

AGRICULTURE OF THE

COUNTY OF LEICESTER;

WITH

OBSERVATIONS ON THE MEANS OF ITS IMPROVEMENT,

PUBLISHED BY OIIDER. OF

THE BOARD OF AGRICULTURE and internal improvement.

BY WILLIAM PITT,

OF WOI.VEHHAMPTOX.

TO WHICH IS ANNEXED A SURVEY OF THE COUNTY OF RUTLAND, BY RICHAHD PARKINSON.

-The land*cape laughs around. Kail nwell tbc woods ; their ev'ry nm-jic WkEM, Htm in wild concert, with the warbling bnwlu, And hollows, responsive from ifae vnle«.

inersMnt blcaiirfi[^] run the hills around, At la« nfmowy white ihe gjther'd Hocks, Are in [he wattled pen in numbers prrss'd, 1 lit- shepherd siu, and w«i» the sounding •bcAM, And *nova* thtir joyous tusk goes on ap.ie^{*}.

Now swarm tie vilatre, n'er the jovial mead, The ruiUiy blomniny uiHid, *lite* nuUoyoutb. K*IO Moopine Af« n he**, itnd Infatu iinmli, And »* they ruke llie (frccu ap[<enriiip gruuaj. The ru^et hay-cock riiea thick behind, la happy Utwiu, love, uud social glee.

THOAISOH.

ANI

LONDON:

FOR RICHARD PHILLIPS, «tioaw-fnani

10 BY PAVI.DEft AND SON, BIIKP-SFRBCT, J. 1U&DI>»r,, ST,

j. ASIERNR, CURSHIL1; BtACK, PARRY, AND KLVfi&BURY, LCA9U)tIALL> j j N PRICE, AHDJ, IRELAND, LRICBSTEB ; J0«» MEJ.7tJ)1*'«0WIRAY ; VTILLIAM ADAMS, IOUGKfIOROL RCE, STAMPOHB; »KtC£ A?tD CO. EOINaUBCH ; J.

0- Barnard, Printer, Snow-kill, j

1809-14s. in Boards.]

PRELIMINARY OBSERVATIONS

TO THE

LEICESTERSHIRE

BE-PR1NTED

AGRICULTURAL SURVEY

I Board of Agriculture having resolved to fruit the different County Reports re-printed, and the subjects therein contained (together with such other agricultural matter, as might be deemed sufficiently interesting) thrown into one uniform system, agreeable to a prescribed plan; and many of the subjects contained in such plan, having been omitted in the former Report, I was com' missioned by the President to revise the original Report, and to collect materials for supplying such omissions. Accordingly, I Jutve, at different times, made many tours and excursions through the county, and particularly in the last summer and autumn of 1807; and have had communications with many respectable gentlemen and farmers, who art cultivators of land, and breeders; of stock.

The great and distinguishitig feature of the county of Leicester, is the extraordinary exertions tfiat have been employed, and the great progress, that has been made in the improvement of live stock, sheep, horned cattle, horses, and hogs, and especially the two former kinds; the perfection tv which they have been reported to be brought

IV PRELIMINARY OBSERVATIONS, &C.

nought, and the high prices that have been stated to be given, have been often formerly thought visionary, ideal, and fallacious; the facts, which the writer hereof has stated from his own observations, and the very respectable information he has received from others, as well as the subject itself, having been more generally and more public ly canvassed, will, it is supposed, remove all doubts, and satisfy the public of these extraordinary facts, as well at, in some degree, remove the &onder, by account' ing why such high prices have been, and may still be given: these exertions which still continue, and with great emulation, were very naturally excited by excellent old turf pastures, giving the means of good keeping; and more particularly, by the penetration of the late Mr. Robert Bakewetl, of Duhley farm, who very early in life, observed the general neglect, in not making a particular selection of stock for breeding, and, by many years of perseverance, he succeeded in establishing certain rules of form, shape, and disposition, in the animal; from which a certain degree of perfection may be insured to its progeny, even in any reasonable kind of keeping, in a higher degree than tzhert the essential qualities are not inherent.

The improvements that have been thus made, are now so well established, that they are universally acknowledged and admitted, wherever they have been fairly tried, and are personally understood, not altogether by speculators in the breed, but by farmers who breed for the butcher and wool only; and I have never heard an instance to the contrary, where there has been actual per' snnal experience, but have lieard many objections made by people at a distance, sho knew the subject by hearsay mly.

To the Agents of the Duke of Rutland and the Earl

PRELIMINARY OBSERVATIONS, &C.

Moita, I am much obliged for their liberality and candour; the latter Nobleman, zcho had been apprized of the business, had directed evert/assistance to be afford" ed, and I was attended by the farming Agent through the neighbouring part of the county; but his Lordship has, upon all occasions, encouraged and patronised every public and private proposal, having for its object the extension and improvement of the commerce, manufactures, or agriculture of the country.

To Mr. Monk's Report lam indebted for such matter it contained within the present plan, and to many Aher respectable gentlemen, for their communications; nnd have farther to express my acknowledgments for the liberality and hospitality I experienced in the county.

From a gentleman of the name of Ainsworth, who formerly resided at Glen-parva, and since at J^eicester, I have received much valuable matter; and he deserves great credit for his ingenuity, public spirit, good intentions, and the labour he has bestowed, without expectation_t or hope of reward. I have freely used his commu~ nications, and shall only premise, that he has not been a practical farmer but on a small scale, that he has had considerable experience in gardening, that his observations are freely made on objects as they strike him, with* out prejudice, and from his own conclusions; but where I think he has been carried rather too far by theory, I have endeavoured to counteract his observations by such remarks as have occurred to me on the particular subjects.

To the **Rev.** Uobert Ferryman I am also obliged for much information on the subject of tive-stqck, and other matters therewith connected, and for tracing the progrtn and meam used in their improvement, which he was well enabled to do from a personal intimacy with the county, and

VI PRELIMINARY OBSERVATrOXS, &C.

and with many active and respectable breeders and improvers of land and stock; upon the whole, the information obtained, andhere detailed, has been the result of my own observation*; or communicated from the most capable and respectable authorities; and I hope it may, in some degree, answer the expectation, and meet the approbation of the Board, of the spirited breeders and improvers of Leicestershire, and of others interested in the improvement of agriculture and live stock.

Some of the subjects are treated in a manner rather desultory and unconnected, for which I hope the Board and the public will accept of the following apologt/; (lie information was received, and the observations made, at different times', and committed to paper; sometime* xchen an article was supposed finished, fresh matter came forward, which was thought too important to be omitted, and this repeatedly; so, that to have made it appear regular and systematic, the writer might have had it to recast several times; he has therefore been obliged, in some degree, to sacrifice regularity and system to matter of fact and general utility.

As the Board have not required any particular attention to botanical researches, the reference to Botany has been carried no farther than to notice such plants as are either advantageous or injurious to Agriculture, Kith a tiem of directing the attention of cultivators to the selection and improvement of the former, and to using evert/ dtviseable means for the extirpation of the latter, and much remains to be done in this way; the ml that ion of m greater number of the most valuable grasses and pasture plants, might increase both the quantity and nutritive quality of food for cattle ; and the destruction offers nieiout weeds, would direct the whole force and fertility •f the land to the nutrition of plants, ta/ual'fg for the

PRELIMINARY OBSKRVATIONS, &C. vii

food of man and beast* But I am strongly of opinion that there is a considerable natural connection bttween the quality and state of the soil, and its spontaneous productions; thus heath and furze indicate coldness and sterility; rushes, sedges, and all aquatic plants, shew a want of under drainage; broom used to be reckoned by the old farmers a symptom of some depth and fertility of soil; goose-tansy denotes a tcant of surface drainage; cowweed denotes a fertile soil; the upland burnet denotes a calcareous, and the meadow burnet a cool and inoistsoil; chadlock, and Goulan's hard tillage, and the couch grasses, the same, and bad management; the fare's foot trefoil grows only on dry sand; and 1 have never seen the mclilot, chicory, and wild parsnip grow in plenty and luxuriance[^] but on good deep arable soils; and Dr. Withering says of the rib grass, (Pluntago lunceolata) the total absence of this plant in marJiu lands, is a certain criterion of the wretched quality thereof, in proportion as such soils are meliorated by draining, this plant will flourish and abound; thistles are also supposed to denote a good, and docks an inferior soil. Dr. Darwin relates, '* A blind man went to purchase a farm, and riding over the pastures, the goodness of the land being muck extolled by the seller, dismounted, and said to his servant, tie my horse to a thistle; the servant answered, here are n-ne, but I can tic him to a dock; then X will not purchase, says he, and took his leave.**

In the improvement of live stock, and particularly sheep, the breeders of this county are above my censure or praise; their efforts have been marked with the public approbation, which is sufficiently proved by the high prices given for, and the nide dispersion of their stock. In cultivation I should be inclined to remark, that sufficie-ng attention does not seem paid to the growth of wheat,

VIII PRELIMINARY OBSERVATIONS, &C.

wheat, and perhaps too muck to that of barley, as t prices at market plainly skew: at Jshlty, January]808, wheat is 9s. Sd.per bushel; barley only 4s. 6d.; beam 8s. oats 4J. either of the latter high enough to prove them in demand; bat would it not be a measure of private advantage and public utility, to substitute, in part, sprina wheat for barley, after turnips; the grasses are **known** to succeed **w** *II*, **even** better zvitk spring wheat than ?cith barley; and Mr.'Hutkerford, at Lord Moira's, has found he can groza two-thirds of the quantity, or 4 quarters of wheat against 6 of barley.

A cleaner cultivation of beans is also wanted; they should either be set by hand on a clean turf only, and well hoed; or drilled after a green crop, and fallow d by cither reheat or barley, with seeds.

IV. PITT.

AGRICULTURAL SURVEY

OF

LEICESTERSHIRE.

CHAP. I.

OGRAPIIICAL ST ND CIROUMSTAN

SECT. I.—SITUATION AND EXTENT.

aCREi astratet between 5 > 24'anil 5a° north latitude od between 0° 35' and 1° 32' west long to the :m inland county, mid bounded on the north by Derbyshire :md Nottinghamshire; on the east by Lincolnshire and Rutlandshire; on lite south by Northamptonshire, from which it is divided by the river Welland; aud ou the south-west anil set shire, from which it is divided by tlie ancient Roman road of Watlinget way, from near .Atherstone to south of Latterworth, about 20 mites: it alao just touches upon StafFordsL in some lit between Warwick ind Da 115 bt length from the south < _____ - the noth part of the vale of Belvoir is 43 miles, and the g. breadth fr I in tlu Wymondhaui or i Magna in the interview of the total to milev; in diameter is about SO m nd it contains about 810 square miles, and 522,240 acr 8.

LEICESTER.

SECT

SECT. II.—DIVISIO

1. Political denomination >s a?id relations.—It is divided into 6 hundreds, containing IS market towns, but some of the markets are but of small account: during the Roman government it was **called** Flavia Caesariensis; in the Saxon heptarchy it **belonged to** the kingdom **of Mercia**; by **William** the Conqueror it was termed Ledecestershire, whence its present name: it is in the Midland circuit; it semis only 4 men lament, viz. 2 for Leicester and 2 for the com •

C. *Eccl* It is in the province of Canterbury, and of Liucolu, and is divided into 200 parishes; most of these in the field state were rectorial, or **eotituled** to **tithes** in **kmd**, of corn and other landed produce; but upon enclosure, have v properly been exonerated from that mod v incut j by giving the rector a suitable al

SECT. III.—CLIMATE.

T H E climate is iu general mild and (• c_3 as there are no mountains or bug^ round in I county is, some of the peaks in Clnmwood Forest; these have the true mountain appearance of **uid** barren rocks, projecting abm irface; and are composed, not oft ^utone, but of the true primeval carried far aud wide , of **tb** more than 8 or 900 feet above the level of iid coii!jii({ue>tly within a temperate region of atmo ;m tlience the sui to the

meadows

soir.

lows on the margin a of line r\$ afen rivies sit 100 or 200 feet • n. The whole of the county may i of climate, be pronounced mild and ite.

No account that can *he*. depended upon, came within my knov windsj or quantity of rain. In a county so much within he particular ope rut: e, it may bt ied the are subject to 'I laws; and ling the rain, 11 tot subj to excess of m i, allow on¹ the subject, in < ith other :*ixg* counties, i should e. e annual fall of rain It;

THIS county has no tie: anil Xx y bogs havh roe meadow soil, being a con the it origin. nd llie zdh from the upland.

This is a fifthe compared to the decision of the first sector of

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•cultivation of turnip of every kiml of grain; and excellent for pasture, natural or artificial. 3. The meadow soil, formed as above, particularly adapted to ; and to grass only, both for Lay and pasture.

Mr. Monk has e?: lie soil of the coun . a light s oily loam, to ft stiff marly loan;, ale degrees possible b soil is generally upon the I in the states of drainage* tl

it very proper y soon y soon

short distances, respecting its strong or friable quick in from a worth to Market Bosworth, I found light h

n Tai: id, then strong loam on clay; past Oream on gravel and sr but harsh clay loam; lund; lund; Boswoith to Linckley, various, generally readed and goe aboat Hinckley, a good deep mixed soil, excellent for corn as well as grass; to Lutterworth and Harburough, the soil generally strong < non-the local standard walks, for solidarity is often used; yet in many places excellent for turnips and barley; about L* on gravel; poorer and thiiiT ud various to Charnwood Forest; about Ashby, different varieties, sandy and gravelly loum to clay . Ashly Woo !d, lattly enclosed, in their natural state, harsh cold clay loam, but becoming more mild and fruble by draininge, cultivation and using time plentifully.

im maint and appropriate loss of the source of the source

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moist [im ; about Melton Ibuty loam uponii sniuhmentswithin >ck: Melton toin, strong clay loam, road repaired wids iha c!them,lie generalchar

- I)i depth, OH soil similar to that of **the**

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Strong clay long	m 160,000 acres, one half only	Y Atrat.
in occasioniiil rilia	go	\$0,000
Mildor friable	swellit lenoist in our side	150,000

Total occasionally in tillage \$40,000

Sti namem name

160,000

80,00

Total permanent gran 3 240,000

В 3

Culti-

6 SOIL. Cultho 480,000 lands— Cham wood Forest, Rothl Plan, cini all oil- waste land in the con aty 20,000 Woodlands, plantations, roads, rivers, waters, 22,240

To'al as before 529,240

The common fields rent many second provention of the Cpuut) as to be worden as a subit mu*; be clear from the nature of the subject, that perfect accunity to I salt salt pf a catenation made after several tabler particular nations of the county.

Tin tipearance of the cevity is marked with intei< I variety; the W and val< are connected by casy slopes, and with a few abrupt pri that almost the whole surface ia pt*uticable and iiBeful. The modern enclosed lordships ueratly almost void of timber t; utrs crowded with all the other inhabitants in vil, diis, in fornipr ti> was more di productons, might afl'an additional security abut, to the mode state of society and poli<: and the out buildings wt at w11 be found constrainent and proper tQ remove them to the centre of the occupation; and if the pecupi per btc pti come e up a the exp use, he will lived his account in a, by the new second back y of qommumi is prem , carrying out manure, bringing home crops, or" inspection of domestic cattle with their pasture. In the scores many good farm houses have been establithenclementer the denomination of halls, granges, lodges , &c. ana the feucea

Respecting

MIXERALS.

Respecting a plan of the county, Prior's, as a general one, is sufficiently correct; but to colour it, so as to distinguish the dil ith any accuracy, and so as to give auy correr *easy*, if it be at all pu^ible. The clmnge o) (^perceptible shades, and clistiction is 1 ^ and the intern; tare more varied with loss dist ice; there is nothing that appi the harshness ol brooks, ami rivulets ar< is in some places grave 11 ucious, fcbe strongest (J in the f Belvo.

SECT. V. MINERALS.

LEIC! •articul. IOUS for m rals; it c-

Thi Mⁿ at the Loo More and the Loo Mor

sum

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MINERALS.

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in the form of an inverted segment of a cone, upon the perpetual kiln principle of laying in alternate 1 and limestone at the top in constant BUC and dm ing the burnt lime out at the bottom, 'an arch These lime-works being constructed for that pu dug in the side of the hill ai • fd by water, and the stone is conveyed down instead of up to the kilus. The Goad Hill, a time rock, in the same probabourhood, is in a similar sectation; they are both the property of the Earl o! Standord he linn wold at about 105 per >n: lliis lira nd to prc i, if left ti !y on the out where an heap ui* it is the function bowever, find it an excellent stimulating m illyon si ils, but do not care to use above 4 tons per acre-SRE MA-NUKES. Dr. Darv in contained parts in the interview in the second earth, and 3 calcareo tributes its peculiar propers to the foi

Thi of limestone at Barrow-upon-So dug 3m beneath e of the generally r 4 yards of spoil, on which account its price is entrain was sold, 180, S quart. id particular) a, for is ;tchcd far and wii

Besides these, h burnt upon- Earl Ferrer' in the fissures of the li lead ore, which is bere smell

the property of thi _of Moira. i iron foundcry at a great : A«hby canal, where the ore has been smelted, and

cnat

MUTERALS.

the number of th

St. Large quantities are mixed at Swithland (pron>UK ed commonly Swedeland) to life east of Charmoood Vorest; it is rather a heavy thick slate, but firm and dun; i.e., and a good deal used in covering buildings, and sonic of the thick blocks also for gravestones, and building puiposes.

IV come and charge and charge and charge are to be found in most parts of the county. On Donnin cast at ui (In

Afr. Mo i many parts of il be us. Gypsom ra of Il county.

In the limestone :it T ma: ma: current free percent of a second of the s

SECT.

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The principal natural river is the Soar, as the Trent can liartIU be and to belong to this county, though it touches Kp. it from Lord Mora's park for 5 or 0 miles withensterly, dividing this county from Derbyshire. The Soar mines between Hinchley and Latterworth, and pussing by Leicester and Loughborough, falls into the Trent near Samley in Derbyshire, after receiving the Wreke above Mount Sorrel, and pussing near Disbley; it divides this construction Notingiannalize, for upwards of 5 miles; it is made margable for targes from its junction with the Trent to reveral miles above Leicester, a distance of 20 niles and upwards. The margation is further projected to be continued by means of the Union canal to Harborouch, and to the river Arm in Northamptonshire.--SEE CANALS.

The Swift arises in this county, and passing by Luttorworth, soon leaves it, and flows into Warwickshire.

The Avon only separates the south-west part of this county from Northampronshire; as the Welland, which rises near Harborough, after passing by that town, separates the south-cast part of this, from that county,

WATER.

Thi part of rid passing by Melton ar above Mi unit B)

Tite Ander mes new the source of the Soar, and runni'i good have the confine i of the county and Warwii alore, fails into the Asoa. Besides these rivers, there are a number of brooks and rivers, are often large breakly and on these of the rivers, are often large breakly af meadow hard, equal in fertility and languniance of growth to any in the kingdom.

The artii: cal rivers, made for the purposes of navigation, will be for the treated on under the article Cauals.

The principal artificial pieces of water in the county, besides the pool at Grohy, are the reservoirs to the Grantham, the Laughborough, and the Ashby Canals; the first in the vale of Belvoir, the second on Charawood Forest, and the third on Ashby Wolds. This latter occupies, when full, 36 acres, but is gradually drawn down through the snatter and antimu to supply the canal; and when at the lowest, after Michaelmas, is reduced to a fear acres; on the approach of winter it is soon refilled by rains or melted snaw; these reservoirs were principally formed on hand that had undergone no improvement.

Sparses — Easter Lezars have spring famous for enring acorbutic and scropholous complaints, and supposed to be peculiarly wholesome to cattle. In the murrans or coatagious distempers of hornest cattle that have affected this country, this place is said not only to have been exempt itself, but also to have afforded protection against the distemper to the cattle of infected parishes sent there. It was formerly much resorted to by infected poor people, and was in some repute with those of bigher rank; some convolucies and accommodiations were exected, but I understand this spring has latterly fallen into neglect and

WATER.

12

disuse; though Throsby, in modern tiroes says, " it will cure scorbutic complaints, b vil, and leprosy."

At Nevil Holt, near Market Harborot also a catbartic water, which according to Berkenhout, is impregnated with a bitter purging salt, called calcareous Glaubers salt, or more properly n n Glaubers salt, or Epsom salt, composed of vitriolic i magnesia its analysis being a considerable proportion of Epsom salt, some calcareous earth, selenites, fixed air, vitriolic acid, iron, and possibly a Hale alum.— *Short, Monro, Rittty**

CILAT.

CHAP. II.

STATE OF PROPERTY.

SEC :. it-ESTATES, AND THEIR MANAGEMENT.

Til as those of the Duke of line of the Earl of Moi; of that the Earl of the Earl of Moi; of that the Earl of the Earl of Moi; of that the Earl of the Earl of

The recent improvements made on the Belvoir estate, lie property of his grace the Dake of Ratland, as related to me by Mr. King, the present agent, have been very great; they have been effected principally, 1, by enclosure, and a consequent change in agriculture; 2, by improved roads, and the Grantham emal; 3, by planting, and building improvements.

14 ESTATES, AND TUEIK, UEIVII	14	ESTATES,	AND	TUEIR,	GEMI	E.
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The enclosures comprehend the (illowing panilics:

Date.	Pariek.	Estent.
I7(6	Wilibam.	2500 Acres
1769.	Eaton	.1800
1770	Bottesford	4450
17;1	Sproxion	2220
1771	Sal;by	£120
iO	Harby	1800
179	lose, Barkstone and Phingar -	S514
1792	Redmill	1700
	Knipton and Stonesby -	SGOO

Acres - 23,704

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idea part of many other y in a uniiiii; a uniiiii; pensea li etu. (mber cut upoi) (mber cut up

A large tract in the vale of Belenir was, before the enclonure, an open chain, or forest stocked with deer; the remainder open common field in the three staft system, of fallow, wheat, beans. *1* he deer often committed depresdations on the crops, and were at some sensors obliged to be watthed by might. Here the course of agriculture has since the enclosure been turned topstimer, the reduct land in the vale, fom enty tillings, has been had to course it

IS ATES, AND THEIR MANAGEMENT. 15

aud the poorer land up the Inthevale, formerly a sheep walL, haAny laud is permitted for tillage, whose siAny laud is permitted for tillage, whose sinion of a proper judi/rth more Iacre; butrid:lue,to lay at

The rents have been advanced from about 6s, per acre in line open state, to this per acre, enclosed; but the duk sddom removes a time. Hie ad a set the break state and the break s part produced by I but in change o; three and circumstances ; the land the land much improved I why having the nebest parts to grave, and by drainage die.; lh viduals rent above actob, in an estate of 210000 A numerous and able bodied peasantry per annum. is here supported; no stockingers, or other munufacturers, ami care taken that there shall be none a pice rents low, and me re and Mr. I me and Mr. half of tin duke, that the occupiors are rather furthers of the old stamp ; but observes they are gradually improviser, and some of the rising generation, as they grow up, are for itriking at new improvements. He believes the estate produe es us much nett income as a might do in abler hands at re; ter rents, as much poliab and chappe in Lauraine at great expense, would be wanted. Something of this kind, however, is intended, and even set a going, to be brought about by degreent.

The enclosure of this vale has not at all, 1 believe, hitherto lessened the number of its inhabitants, as the farms are small, and few changes of tenantry have taken place. The farmer and his family take a hand in the business, yet few can do without a male and female servant, and inhourer, who may have a family : there with the necessary me-

\6 £STATES, AND THEIR MA"

cbanics, b! $\land \models$ whi ht, tajlor, $\lor >nn$ I should suppose ut 10 - • every 100 ac; ; very generally in ti (and th • ii) it aural to form the nrw erec; ihe niid?t of the occupations, where 5 arc already built, and the farms will be consoled upon aud let to the more active and cii r as the tendency of the COU i OCCUj and hiff family must emi; re, for employ,

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The G make and is also a leading feature in the internet of the set of the se

TENURES;

of Belvoir, and Q or)0 mi i the Duke land's estate, who is a large j it thus furnishes 1> lime, aud other heavy articles, almost upr,n ihe spot where wantec ible by la; carnage in winter. 1 heard a ueighbonrin Br say, lie >id not take .£50 i afjrded to him; it cost considerably above .£100,000; ft invol !ebt, and has !o a dii but Is in the i r G per cent, per annum, upon and is expected to become a fuir couc<

Pim,—Along ti.vale ofBulvoir, runs a dedivit;miles iiisplanted, apart lately with forest iiin, and preserved at the expense of many thatis;these plantations are very promising for timber, and at thesame time make good i'vA ainusen.and exercise, and are a greatto the country.

The cstnte3 of the Earl of Moira have been improved by late enclosure and improvement of *Asbby* Wolds, by the Ashby canal, planiah the d< betweeu ihe upland and the vate oi troduction of the drill husband the b- dea of modem culture upon bi.^ her ncipal estates are imj by plant and SIJ(b are generally kept ira weeds, and the whole, the estates and lai rty of the county are under good man... J io ;i forward state of improvement.

SECT. U .-- 1 'ENURES.

Tci in this county, are principally f , with some lit! nor courts are ijrttty £ LSICSSTfiB.]

17

TENURES.

18

held, even where the copyhold tenure is extinct, and their utility iff experienced upon many occasions, as the settlent of boundaries, and preventing of litigations, appointment of constables, Sec.; a very small prop or church tenure, or held unde,r lifc-l« renewable between the parties, upon payment of ri ilnc.

HA]

CE; AP. III.

BUILDINGS.

SECT. I.- HOUSES OF PROPRIETORS.

THE county of Leicester contains a great number of magnificent aud elegant seats of nubility and gentry : the following is a list of most of the pi in- ; ora Throsby, 1801; he was Town Clerk of Leicester, and well acquainted li the comity ; it is possible a name or two may have since been altered by death, or alienation, but X have any easy means of correction.

- 1. Belvoir Castle, Duke of Rutland,
- Staumon Harold, Earl Fem
- S. Stapluford, Karl ot llarborough.
- 4. Kirkby hall, Lord Weutworth.
- 5. C; Le Domain on, Earl *oi'* Mou
- 6. Stanford ball, 6n Thomaa Cave.
- 7. WisiuuhuU, Sir Oiarlea Hal ford,
- 8. Carltou Ci John Palmer.
- JBosworth hal), Sir Woltan Dixie.
- 10. William SketiiDgton.
- I, Sir John Danv<
- 12. Bardon Park, William Hood, Esq.
- IS. tieaumanor, when we have a second second
- 14. 'Brauuslon hall, Clement WinstaoUy, £sq.

15- Danett't

r 2

nouses OF PROPRIETORS.

15. Danett's ball, William Bentley, Esq.

0. -Edinomhorpe hall, William Pocbi»j K

7. End 11, Charles Lorraine Smith, Esq.

18. Gerondon hall,——Phillips, Esq

9. Itotheley temp! mas B

:0. (iiall, Lord Curaon.

20

2: 1. Laimd Abbey, John Simpson, I*

i3. Leeath orp, J ohn She ffi e 11!

:4. Lmdley ball, Robert Ab

o. 1 delineto, hall, Ghai

m ha!!, J, H. FranieS]

27. Normanton haif, Hoi hed Smith, Esq.

:8. JNousely hall, I

19, (Januard 1 hall, JOSMU

20. Prestwood hall, Charles Jan: Pack, Esq.

•uenby ball, Shtickbu

32. Ciuorodon hall, 1 lago Meynell, Eq. the modern Nimrod.

33. Scraptoft hall, Mr

- StoughtonhaU, G. A. L. I
- 35. Wanlip hall, Sir C:

30. Westcotes hall, Walter Kin

Odston hall, Richard A

These seats, says **Thros** opulent, arc the pride and ornament of ilk n a grtiat **number** of ihem, with and plantations, hot tit uprehends every **i** retire oieot.

#d real custle is a most romantic situation, upon an ab-

5

HOUSES OF PROPRIETOR9.

21

and

ition oi a kind ut natural cl minatioQ of a permanator half the bar is of which is red gritalone, but now covered with vegetable mould, and well turfed by nature and the second second different elevation ; parts of and some of the import abundantly covered with forest trees to a great extent, and forming tins ancient it man soon, so extensive as to afford she Her to a most inuuun table multitude of tools. This magnificent in aution is, doubtless, situated upon the scite of a very aucient fortification ; it has lately undergone a very thoron ration cpense. of 200,000 the upicards a it is so very uncient, that the steward informed not be for the Is go back to its having been twice retails, previous to the present time; a wnlk rouiiJ !' the whole vale of) divort and the adjacent country as far a Lincoln, ijic! and Jt^c2Q,00Q of the family pr<

The rt sidence, is a magnificent and pacit. I by the prt Land of the problem of the problem of the problem with f with f with f with f via the problem of the prob

n the young sapling plants to a state of decay, great irolicity in the aspect, swelling hills and sheltered vales,

washed on one side by the Trent; some very large oak and elin verging to decay; the soil sound, well turfed, and somewhat light, with a loose rocky under stratum; the park contains 4.50 acres, with a large stock of both red and fallow deer; these two varieties, 1 understand, never intermix to as to cross the breed.

Stanton Harold, Earl Ferrers's, is a magnificent brick and space mannion, of two principal stories, 'with (ellars

FARM HOUSES, OFFICES, AXD REPAIRS.

ami attics, well wooded and watered, and turfed around ; many atber of the residences above enumerated; ar< nicent mid elegant, and generally kept in a style of e> and neatoess, as may be expected in a fertile and rich conntry, where such residences are generally occupied by the owners, and who reside I whole, • part of the year. ft

BIC \ TT.—FAfIM HOUSES, OFFICES, AND BEFAILTS.

THE farm houses of this county, like that of most others, comprehend every variety of construction, and state of repair : in that part of the cotwfy occupied by able breeders, or graziers, who are sometin' owners nf the occupation, or connected with the owner by relationship, good substantial hoi F brick and tile, of other permanent and durable materials, are to be jund ; but in many of the villages, the farm houses are of inferior construction, timber and piaster walls, covered h thatch ; these as they decay, will be gradually removed to the midst of the occupations, and built with more substantial materi:

In general, the modern enclosed parishes have the worst um houses, they being almost alwa; ;ed up ID the villages ; in the more ancient i ;i houses have been erected in the midst of the cc< ;ind built with rer materi;;

shit y farm-house is of ancient construction, and probably been built at different tiroes, whem gularity

FARM HOUSES, OFFICES, AND REPAIRS.

gulurity and compactness; it vever taken altogether a • of pastoral simplicity, united with neatness, aud exhibits a specimen of that.judgment and taste, which jo couvenien* ucouon ,r a& it can be attained withgulai design; the out buildings too scein to have been put up at separate L i wanted; the yards, and pavements are remarkable for a neat cleanliness, and the whole , for beiag conducted with good ormi.

~M y's Farm house, which is distinct from Odsloi hall, is a substantial brick and tile square building, wit two fj, lours, kitchen, dairy, brewhouse, and other offices behind; barns, stables, hog-sties aud yards, pr
 »rly distributed backwards, but i .Jern built nor con *•*, but probably additions made, as the cultivation became mo.ro productive, aud the st-

"Hie here of the principal breeders are comfortable and substantial, and i course fitted up in a side suitable to the taste and situation in life of IUt* occuplot; but many farm house in the old on lastues are of Li construction, and though the farms are consi* detable and respectable, triO bitildiugs will afford but litll(instruction: to mode o inquirers, cow-houses for tying u ire generally of the chea- d simples instruct [1] (1 stall feeding being but Uule practised, have not mei with and tern built, wtll-coutrivedfefdio about a the case tic in I are cased and generally tied to a rule of posts, with a critic b aud rack, or range of ti on the before them, and a him or space beyond the tack, for u person tt or other food. I saw vomv at Mr. Astless and else where of this sort, of ancient conton, bu; U contrived, new crectioi

cattle

24 rARM HOI D REPAIRS.

the ccw-k servant, but have no particular con*

The the modern enclosures, most of the farm houses this rein a! In the modern to hook to tay particular contri nience, the scite of the company, no doubt but due attention will be paid «o the particular.

I! of an on nc i hous« of an on i hous» i hous» of an on i hous« of an on i hous» i hous» of an on i hous» i hous» of an on i hous» i hous» of an on i hous» of an on i hous» i hous» of an

A cow-shed against an open (ard, in which cattle are the be tool, or kept up, must be fenced off; otherwise longe calle or swine will break in upon them, and injure each other; t!e different mathods of fencing off are, some with bnck-worl; once high, having necessary doorways, and ma! plets carried up to support the roof; others with gates between the plets pand some to save the expanse of gates, are felced with pulling, leaving a theremary gate or doorways only; or if a cow-shed be bailt in a separate fenced yard, or quadrangle by itself, no fencing to the slit d will be processary.

As Ashby Wolds abound in stone, which is easily got for draming or rough walls. Mr. Johnson has built stone rick stools, or staddles, with a projecting coping stone round the top, to keep out vermin, as rats or mice; these stools are much superior to wood, as they are far more du-

Legar Williams P.24 IC John the * farmery at . takky Helde C2 Horses h 9 Hay Stuck 312 4. Rich IN Fard k 12 2 2 Fold Yard z Q Cat Stock Sente To Free 30 10 -111 1216 닅 n Parlow AS The Building and by contrast. source L & the Threathing Mill 1 Sindian Barn A ; t/ii>ff C Patterse /r 7'//'•': >'/t//ijf Ffoirr The Stories by anothe impiant d Bernhouse 11 Thrushing Mill the Shiple & the Dist shark my th the Barry enn be part in through /// //r //, e Darry of gride hade without him and R. Con Sheil J. Winderhounse ST Call West : Firmer sour D Open Streed p Pung





COTTAG

85

*j or faggot wood, as die damp will permit, without losing room ; lo prevent any damage from such damp, he has curried hollow drains under the staddles, to drain off mo u this da the round sto I think

DECISION OTTAGES.

THISCOME where the second sec

I give the following sketch of a cottage for a labourer, ererted by Mr. Smith, attorney of Ashby apon the Wolds, where he has a considerable allotment of Jand, in addition to an old enclosed estate, and which he occupies w Ufa considerable jackgroent and spirit; with the addition of the new enclosed rectorial, or vicarial globe, making in the whole, a good sized farm.

The walls of Mr. Smith's cottage on Ashby Wolds are brisk, but the roof covered will ihalch, to give a more rural appearance; the hog-sty is sink, so as scarcely to ippear in front, as the pig lies, and feeds beneath a part of the pantry, dotted off from whence he is fed; there are two alceping rooms, as will oppear by the plan. To give a picturespace appearance, Mr. Smith has likebed the back

COTTAGES.

26

ifidi with sham Gotiil I in ihe brick-work ; it would not cost less thai but . and thi rng •;\voulii it:

1.j,000 bricks, lime, and laying, at Q	30	0	0
400 foot, chaniber floors - 2 10	10	0	0
6 square of roofing, at 21.	12	Q	0
Thatching	3	0	0
Front rloor and frame, and 4 win-			
do.vs	5	0	0
IVick floor, stairs, hisiVle doors,			
plaister, and hog-:	10	0	0
		-	

Total .£70

0 0

Mud walls are not uncommojT, as obs? VAT** llages, in the south and east of die com illy as and o with r tliaitli with chopped o hold it V structed hy labourers, who i th build h llie <

» no particular system. '»

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 puts the j.

 cs tin* landlord
 imls in

 nt carriage and worl
 ;;ij in

 is pretty much tin
 vith tl)

Bridges.
COTTAGI1S

-This county having xykable lor bridges; the mi dish Ige, over the Trent, b ysliire, on the road from Lougbborough ion to Derby; it consists of 5h $d\sqrt{6}$!! known to travt :ul the llarly deserving notic, i here are a nuial built in the usual form; and I >ne of I Asbby canal rail-ways, by a brii Q a pi retty much sunk, and nut far from the end of the r •vay tunnel.

PRICE OF BUILD!N< IALS, AND LAH

Bnclcs at Uie kiln,	12.	d: 1	. <i>d</i> .	£	5.	d.	£	z.d.
per 1000	16	0		1	5	0 to	1	7 0
Laying Bricks,				100				
per 1000 -	4	0		0	6	0	0	7 6
Brici per day	1	10		0	3	0	0	3 6
Carpen: lay	E	10 t	2 0	0	3	0	0	36
Building timbt								
ner foot	1	6		0	-	6		

The adthat in bricks and timber rational and the second second

CHAP.

CHAP. IV, OCCUPATICT

&ECT. I.—SIZE OP FARy

THE farms of Leicestershire are of various and alm In the vale of Belvoir, and in many other parts all sizes. of the county, as upon the Beaumanor estate, belonging to William llmick, Esq. are a great many farms of from SO to 100 acres; here the occupiers put their own hands to the plough. Mr. Monk says, " in the neighbourhood of Market Town are many farms much under 100 acres, occupied by tradesmen or manufacturer*/'-A raoicf size of farms \a from 100 to 200 acres, and from 20i 500 acres are in the bands of many of the principal bree << _____ end graziers, and in some instances occupied by the On farms of this la greatest impr owner. tnents have been struck out, and established, which have often been adopted by the srn; s: .some few occupations arc larger still, and inucft more is kept in hand by some of the great land proprietors. Mr. Monk remarks as follows:

Manner in winch the land a •'.—The land is «! for the most part in pasture for sheep, dain *feeding neat cattl* onsiderable j*» *hors< a proportionable quantity ii for hay for winttT uue. The farms employ fly for daii*

KF OF

** of which ihere are a great number, have always land in
" tillage to produce straw, turuips, &c, for the
" winter. A farm of 000 acres may perhaps have about
" thirty or forty acres of various sorts of grain, &c. Those parishes where the land is of an inferior quality, have a
" greater proportion or' arable ground than where the soil is
" richer.'¹

Lbout Ashby dela Zouch, and Loughborough, three *a* parts in four are in pasture. Near Melton Mowbray, *u* there is very little arable, nut more than one acre to th ! [arborough has also very little arable. The " pasture near Luttenvorth is in proportion of eight to one. W At Uiuckley, five parts in six are in pasture."

Under this bead it may in the proper to determine the principal occupations, from minited or memorandum!) made on the spot, in various and different Ji the cou

I was informed at Belvoir Castle) hus in hand acres of land and upwards of all JUS, including pleasure grounds, plantation laud, where ! taken into k*

When a pi mid is broken up, on, monly sown, then tui imon o; $^{\circ}$ *ts for the for the for the for the hoi •

At Domington Park, the Earl of Moirs has in hand, besides the park of 150 acres, a regular farm of about acres, making in the whole about 220 acres the park $i\pm$ well stocked with both red and ful ally with sheep, and oilier live stock, Tlie farm occupied:

FARMA

complete the end of the end

Sevenil Arabian li mer ni his lords! per stable; one was shown me which cost £200 in carriage over; 2 large asses; a few asses are kept for carrying turnips or other burdens; S plough houses are kept to make 4 plough tollins, besides a team of waggon horses, and the necessary conch ami suddle horses. About 100 to 120 Loice ler ewes are annually put the state of about 20 South Down; these latter for variety, comparison, or honit: consumpti'n a data constant of shach are A! _____ iniprovet Durham bre^ ___ a «ry capital improved Durham bull, besides a dozen capful Durham and set the set of the meadows, The begin the line of a line of the line of the small bon d will thin fides, and always keeping themselve: in good condition. A German hoar is kept here, thick and well made; the bacon and pork of his breed preferred for sweetness and good ii has been 3 years kept amongst the hog fireed, which he much resembles; he is a mo and never t) *i* Colin' *i* Colin' ugh an i to himself in not too umch grown; h tlie size for porking. An 1 ram i ram

FAR:..

for curiosity ; he is a perfect contrast to every good quality expected in an English ram, both iu wool i is therefore taken to prevent any gr I his breed. The business of this farm is principally done by labour) (\yho board th plougl i other \vi. i the drill system is introduced and pi .—Fiytl particulars are to he found under the different heads of survey.

JJishUty Fanⁱ occupation of die fan hi well in three generation now of Mr. i doubt Honcyboumc, nephew to the last Robert Bafe This jarm has long been remarked for the spirit and enterpi: a of its occupiers, in striLiug oui and improvements. jecially in live stock, and the resources for beeping I have advented times seen it at intervals for the last ten years, from the year 1797 to 1807 : Its situation is in the north part of Leisenter hordering on Mathematica about 2 milt from Loughborn h, on the roa The nature of the upland soil is a mild friable ! ;aod depth, on a clay or marl boltot le parts dining to wet, and requiring drainage. The meadow soil similar to U I of UK other level and of the counter the enclosure and mildings accent, with a church attached of tin tille if Jui | manual i

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 has been \setminus '- stock, and t

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The following menitfraoduucu were *mzdc* on the following the second sec

1797:

FARMS.

33

1797: I- Concerning ir i, gcc. " A rivukt, winefe near this farm falls into the Soar, is applied to the purpose of irrigation; and to prevent auy interruption on thut head, a mill worked by this rivulet; was hired by the late Mr. Bake well, by which lie w the water either to v mill, oi rig the land at plea- • sure.

To effect his views iti irrigating the land, a larg* course or main ca *a* cut from tlie point at which the rivulet enters the farm, and continued on a perfect level tent of about a mile and a quarter in length*. All the land below the 1 this carrier, to the extent of about COO is capable of being watered, and con qutnlly may be mown either for liay or green food, without Tubbing the upland for manure, but on the coritrary is a source of manure for the upiaud, by the dung made from its produce.

jr the bouse are several small plots, or parcels of pasture land, of less than an aere each, and well *fenced* round : these are for th. nlence of keej themselves small lots of sheep or cattle. other part of the farm is divided into closes, of which I believe ru 10 acres each ; the sul by the late ft BafceueH, I believe at his own expense; the fences are generally of hawthorn, without timber trees, and ai neat and in good order.

The cultivation of this farm has for a length of time b upon so correct a system, that it is now almost free fr •ds: that most complained ol -i (AH media), which I was assured upon the ave more trouble there upon tilia: u'eeds : ler. I observed, however, in a barley 8th considi quantity of the |n|(Poljgonum aviculare), probab

FARMS.

33

on, upon a cool bot There were also a few thistles in hedges,

Couniderable plantations of willow are raised upon this f mn by the occupier, for gates, burdles, rails, sheep cotes, and other uses. The sors is, I believe, the white willow (sulix alba.) It is a quick and sumight grower, and soon becomes large enough for a rail or gate bar. A plantation of these is continued along-side the stater-carvier beforementioned for a great part of its length; busides which, there are several willow plautations near the house, which have a pleasing effect. I think this a practice worthy imifation, as it proves a substitute for oak, which may thus be reserved for more important uses, and formshee a constant and plentiful supply of wood to the farmer for many purposes, with little expense, trouble, or waste of

One practice entirely peculine to this farm, is that of drawing heifers of 3 or 4 years old at the cart or plough, iis lieu of oxen or horses. They are easily trained and munniged, and a considerable number, from 12 to 20, constantly ready for uses they are tied in a shed, and supplied with mown grass or other green food in summer, or uitli straw and turnips, or cablinget, or hay in Willier. I was informed that is of them will work a plough or cart, and they are very docile and tractable. They may be worked 9 hours a day, viz. from 6 in the morning till 12 at moon ; then builting two hours, they go out again till five in the evening.

The water-carrier before-named is sufficiently large for navigating a small boat, and has been used for that purpose; and as it goes along the lower end of several of the arable closes, is often used for conveying turnips to the home alleds; for which purpose nothing more is necessary than owing them loose into the carrier, when they are taken LEICENTEL] home

FARM'3.

home by the stream, rcadj w the water sure. Thi for a sheep wash, $w \$ ascend aft-

In consequence of the breadth of water meadow, large quantities of hay are raised; and the resources for maintaining stock are further increased by the cultivation of green crops of vetches, tarains, both common and Swedish, colesced, cabbing, borecole, carrots and potatous. Light carts are employed to convey these articles where wanted, either by horses or builers. Currots I onderstand to be the most causal and expendive crop, but so highly valued, that they are continued to be raised for the stallions and other horses. They are preserved in variants ways through the winter; some by forgong in earth in the manner of potatoes, not laying them in too bally a heap; others witinn Lbi building.

The following green crops were up on Diabley Farm in the autuom of 1797, and of each sort several acres:

1. Common turnips fixed and cleaned in the usual way.

2. eslessed, highly valued for use, the beginning of winter.

3. Swedish turnip, crop equal in bulk to the common turnip, and ninch more valuable upon several accounts : they bid defiance to frost; the tops are equally nutritive and acceptable to stock with the roots; and they preserve their nutritive qualifies through the spring months, when turnips run away and become easy, and of little value. f was this assured, that in any stage of growth, sheep prefer them to the common turnip.

4. Cabhages, planted in rows, and horse and hand hoed in the usual way: these they begin to plant carly in the spring, and to use early in autumn.

6: Bore-

FARMS.

5. Borecole, 5 or 4 acres, and very good, having been planted carly: this was rather an experiment than an established plant; not having been tried before but on a small scale. It is expected to shard source weather better than colested, and to be equally matricipe.

6. Pointoes, several acres, plousis-plinted in rows, well clouned, and a great crop. These are meant for stock occasionally; er, if the price at market makes the selling of them an object, they will be sold, and the stock supplied from other resources.

7. Carrots. Of this plant they had no less time 0 acres, and the crop good. They have some time ago begun to get them for use, and are now getting (Oct. 16.) They are given to harses and other stock,—tops and roots together when fresh, but when stored the tops are cut off, and thrown fresh to stock. Nothing is known here of making them into hay. Many of the mosts I observed to be from 2 to 3 inches dismeter.

From these resources, united with a large statk of huy, a very large live stock can be well supported through the witter; and to increase summer resources, winter vetches are sown in considerable quantity. Cooke's drill was then in use at Dishley, but not generally.

In 1801, I again visited Dishley soon after harvest, and was informed, that about 120 scres of the farm were kept in tillage: of which, about one-third was green crops and vetches, one-third corn crops, and oue-third clover and rye grass of the first and second year : the remainder of the farm being permanent graits had.

The growth of hay of that year I estimated at more than 500 tonn. Barley mill oute considerable; wheet less in proportion, it being more suitable to the occupier's system to grow outs and barley than wheat; peace in small proportion; wetches, a few generally an ed for sond.

10.00

The

FARMS.

The Swedish turnip in great repute : colesced instantly sown upon the early out stabble, even before the crop it inspected; the oats being reaped, bound, and set up in abocks, 4 or 5 builts in one row, and the intermediate builts immediately ploughed and sown. This stubble cole reserved till spring, ihen eaten by ewes and lambs, and succeeded by some other green crop.

Cooke's drill was then more in use than before, being constantly used for barley, sometimes for wheat, and ocetasionally for vetches; and the boes and scarifiers also used in barley previous to sowing the seeds, which are afterwards light harrowed. They had also scarified a piece of vetches, to destroy woods and hoe the crop. Mr. Honeybourne's opinion of the drill systems then was, that it requires particular attention, and a clean cultivation (yet not more attention than may be given by a steady servant or labourer); that it was rather gaining ground; but that in the present state of farming and Cult: ation, it is in value to expect its general adoption.

In the automo of 1807, I again prid a visit to Dishley farm, and saw the cultivation and stock. There were about 40 acres of green crops, including vetches. The Swedish turnip mean to the middle of July, as the land is made ready, beginning early in June : the coarmon turnip sown after that time; about 20 acres of the former to 10 of the latter. Several acres of cabbages grown, begun to be set in April, and continue to the end of June : some potetoes and coloneed, but no carrots : the growth of the Swedish turnip making them less necessary, and the soft not being very suitable : less irrigation of land than formerly, the mill being kept it work, and part of the water diverted to some other purpose. Three or 4 capital third stallions kept : and 10 or 12 strong black brood marcs, for breeding and doing the carriage and farming work. About 25 calving

CONS

FARMS;

37

cows kept; and JO) to 150 ewes put to the ram. The pig stock, fine bound and well formed, thick and plump, with a fine thin hide. These are the principal features of the form, of which more particulars will be given under the different heads.

The opinion at Dishley, which was always that of Mr. Baki well, and which corresponds with my own, is that of an alternate system of gross and tillage, mutually supporting each other; the one by keep or food for cattle, the other by manure, assisted by a due proportion of invadow and permanent pasture. To allord certain resources for a pioper live stock is a much more profitable and superior niode of farming to that of excessive ploughing, or of grass land alone; and that whether considered as referring to landlord, tenant, or the public at large; shough it must be admitted, this farm, from the peculiarity of its parsuits, has but a small quantity of tillage in proportion to its extent. It the common ficial system too much plongting prevailed, and the tillage wavill conducted, with little encouragement to any individual for improving, and no probability of improving the general system. In a considerable proportiou of the enclosures ullage is neglected, the hand being ensier monaged, and supposed to pay more mill profit in feeding. stock. But here the public are injured ; by no means the greatest possible quantity of human food is produced ; and it is cortain that both limitloril and tepant may be becefited by introducing a moderate system of tillage, upon a due proportion of the land. More boman labour might be advantageously employed; more human food produc?id; more rent afforded, and more profit obtained, by due exertion upon a well regulated course of cropping. It is, I believe, well understood, or may be easily proved, that good land in tillage, in due proportion, will maintain a much larger human population, than it will as grass alone. It Lens+ DO.

FABMG.

33

I therefore think that graing farms, marely so, are jobbing ...

Mr. Astley's occupation at Odstone, about 3 miles north of Market Bosworth, counsts of about 500 acres, the property of his brother, Dagdale Astley, Esq. of Everley, in Wiltshire. The upland soil generally a strong gray loans, with about 100 acres of water meadows mown for hay, to support a large and highly improved stock. This meadow-Jand has been drained by Elkington, and is irrigated upon the cotch water system. I went over these meadows with Mr. Astley, in the month of July, when the morning had commenced; they appeared to me to mow from one ton and a helf to two tous of hay per acre. In 1797, Washington, a bull, and hely Washington, his dam, both from Rollwright, were in his possession, but somewhat superamnated. A dairy is kept of about 30 milling coves, of the long horn breed; they are the largest and best, taken all together, I have ever seen, except those of Mr. Princep, of Grozall. The cow calves are seared, and part of the ball calves; the best bred for bulls, the rest for oven ; but, most of the team work is done by strang black horses. Some brood mares are kept of the blowl kind, and colts bred of the highest blood. A large flock of sheep kept; when I was there the form had upon it between 7 and 300, of which more than 100 were rame of different ages; shout 200 eves put to the ram. The sheep are of very prime quality, though Mr. Astley, I believe, never belonged to the Ram

The hogs are of a breed highly improved, being finebound and mellow, with thin bides, and coming to a large weight. Mr. Astley is generally reckoned to stand at the bend of the breeders, in the superiority of his swine - SEE LAVE STORE.

The green crops grown are turnips, both common and Swedish;

FARMS.

Swedish; cabbages and pointoes, followed by burley and seeds. A good deal of coru is grown; sometimes 30 acres of barley, and 50 of cats and wheat, and 50 of green crops, including verches (I believe addom or never any wheat fallow). This tears 250 acres of upland grass or clover, and 100 of meadure.--Sex Course or Chops.

I consider this farm as very productive, the crops being generally very full and good. Mr. Astley has remisted the ant-hills from his pastures, and levelled the surface of the meadow land, by removing uncouth ill-formed banks, taking care to reserve the surface soil in its proper place.

I visited Mr. Stone's farm of Knighton, about 2 miles south-east of Leicenter. The soil, a good deep gray losm, fit for turning. His sheep good very capital. Mr. Stone grows colesced, cabhager, the common turnips, and lowing manner: 1st. The minmer, or failow cole, is brought into use : it is generally mown, and carried to turf land for the rams and ram lamba; the store ewes and ewe lambs bring a ldom indulged with any, and the wether stock being energhere. The turnips and cabbages are next brought into use ; and lastly, the Swedish turnips. This plant answers the liest for supplying the vacancy of April, as it preserves its juices completely, and sheep will even cat it from choice after they are put to yours said spring use, and should be soot a rather earlier than the common murily; the best time is the month of June. rown immediately after barvest. Mr. Spone seldom experienced any schucity at that time.

Cole-

f ARMS.

off is becoming of winter and the same time with : but stubble i J . difference is a second back of a difference nature to the

Mi. Store's course of crops on his store sheet finn is, 1. green crops as above upon fallow; 2, barley with store 3 and 4, sheen posture; 5, barley at one ploughtar of the 2 year old turf, and studdle coleaded sown anne dist after harrest and first ploughing the hard; and then green frops, and could main as before. In t! " system there is no whent, which, however, may be sown instead of in in the fifth year of the course. But Mr. Stone charres, that the studdle would be later and less that for colesced, up*n a sheat than open a barley studdle. Spring wheat ma\ also be appendix of the course; and this 1 believe to be an increasing practice.

The first year's clover, which is the third year of lie course, is graced with rous and ram lumbs, on which they do better than on grass, particularly in the former part of the summer; but continuing them on clover through the whole summer and autumn, Mr. Stone thinks has a tendency to give them the yellows or jaunifice; he therefore effers taking them from clover, and putting them to grass

in August.

which ha<; Isto some fruit ti

slicep

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sheep were in excellen Thw

S reep-cotes and peas are crected on various parts of this farm, in a situation for serving two or three pieces of land each. The runs here, and with all the principal breeders, are cloathed after shearing time with a yard of flannel each, which with care will last three or four years.

M r. Watkinson, of Woodbourse, occupies his own estate, about 9 milles south of Looghborough, which is in a lingh state of cultivation, and about three fourths kept at grass, and one-fourth tillage. He disapproves of two We its corn crops in succession, and therefore sows upon breaking up turf, part wheat and part cats. The wheat son, three followed by perg and collesced on the pen aufible, then turmps, barley, and seeds; the cats, by turmp, barles, and seeds. In this case wheat is emitted. A varied system is more chastant in this county than a regular one — Stu County of Cuops.

Mr. Watkinson has Cooke's drill, which he often uses, but not generally ; had not used at for wheat, because his wheat is sown on lay ground, but sees no objection to using it for fallow wheat, is he holieves a laying of seril might be made; he uses it considerably for barley, but sometimes sows part of a piece broad cast against the drail, and can scarcely perceive a difference ; bot says, if he may contare, an opinion, it would be in favour of the drill, as he behaves the straw stranger and the gram better isoland ; that heeing the barley is namited, because it mantheres with the grass seeds, and after the drift the grass souls are lightly harrowed. in. Mr. Wollinson observes, that for the drall to be advantageously used, the lased must be highly prepared; hence it appears that a principal advantage of the dellisystem would be, to force a more perfect preparatory tillage, from which, probably, greater advantage would be

FARMS.

6.2

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derived, that from the machanical mode of laying in the seed.

This gertleman is in the first rank of Lobertershire breeders; his sheep are closely bred from the Dishley stock, and have great marit in bying on a great weight of mutton upon small dimensions, with the least possible bone or offail. He also shewed me a great fed long born cow, which I estimated at 10 or 14 score the quarter, and believe to be worth to the butcher £35. He had shewn an ox at the Smithfield show, of the long born breed, but the prize was given against him in favour of an Hereford ox of superior weight; but the Leicestershire breeders remonstrate against individual weight herig made the criterion of merit, without taking into date consideration the proportion of offal, and quantity of food required by the animal, in which particulars they assert the long horn breed excel all others.

The Swedish turnip is here in great repute, and calibages cultivated on a considerable scale, as well as stabile cole and the common turnip. Pointoes also in such plenty as to be sold from 14 to 16d, the bashel. Out, 1807, viewed a sheep farm of Mr. Stone, of Barrow, some distance from his house, a mile or more from Barrow, on the Nottingham road : soil a strong gray hour, rather harsh, with an under strutum of linestone ; about 200 acres.

A which field of dram head enbhages, and the crop good, another field, part sommer cole, part cabbages, small press of hundles, with 10 ram lambs in each, cating of the cole seed, about 8 perch of which will last ten lambs a week : this proce means to be entant off early enough to now autumn wheat.

Stabble cole sown after eats, a whole piece about the middle of August, and very promiting, the shed oats growing amongst it. Mr. Stone informed me, he has grown

FARMS,

grown on this piece of land, 11 qu; itters of outs per acre, the piece through.

Common turnips grown, but Swedish in a double proportion, or at least two acres for one, being reckaned to out bester on this rather strong soil; Swedish turnips generally washed and cut for the rams, or other prime sheep in the epring, by Flanford's machine; sheep-pros, or cotes, created where four ficins meet, about 20 feet square; also in the middle of the fields, pens of hurdles, four burdles long, and one wide, open at the easts, for the sheep to walk inteshelter, or to shade themselves, and covered with burdles and straw; these in one year old clover sheep pesture.

Ewe stock very capital, 160 put to the ram, about 50 to an aged ram of his own, and the rest to a Dishley shear hog; the owes placed in a stock, to prevent fatiguing the ram, and teasers employed to single them out when in use, San Live Stock.

Wheat stubble lineked up, or mown for litter's heaninet by hand on this farm, and followed by which, then a green erop, then barley and seeds, SER COURSE OF CROPS.

The Swedish turnips when cut, are generally given to the prime sheep in troughs. Mr. Stone had nine capital rami, ninking off for the butcher, having so many above his number. By a rule of the Rum Society, no individual is to lat out more than 50 rams in one season.

Mr. Stone has two tenns of five oven each, but means to drop draught oven, and make them all to the butcher; he burns line stone on this farm for manner, and other mes; the price two shiftings and supproce per quarter, five quarters weighing about a too. The sheep here, one of the first class, and the business respecting them, conducted in the first style of manuferment.

SEGT.

T. II.—FAIC

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The land occupiers of this county have not been wanting hi ihe spirit of enterprize. The great exertious of Bakewell, in the improvement of every species of live stock, are well known to in ilu? \u has been ably seconded by is great number of respectable characters, who have also endeavoured to adapt their land to an improved >tock, by drainings and every other species of improvement, suited to produce an healthy and plentiful pasture, and great winter resources, for supporting a large and valuable stock. This spirit of condition has spread universally ani'ngst the smaller furners, and amongst all coul:s of land occupiers, and so far excited them, that there is now t fault occupies in the county, but would be ashamed of a luibby or interior stock, and if he could not produce sontething of an improved, or superior order. Many of the smaller estates, occasionally pat their own hand to the plough, or pasist in the other manual operations of farming ; yet there are few of them that do not keep one or more male and feincle servants. The great merit of the Leicestershire, farmers, has mostly shown itself in the improvement of live stock, and particularly sheep; and next to this in the improvement of grass land. In the daisy parts of the county, the business is well conducted, and a great deal of cheese produced. In the cultivation of green crops, as turnips, and particularly Swedish, they much excel; but in the cultivation of grain and pulse, I reakon them not superior to the neighbouring counties, though many public spirited. cultivators have tried the effects of hoeing, hand setting, and the drill system; but no farmer here, to my knowledge, has riseu to any degree of opulence, without excelling in.

R M t tl''

at pasture: ill compare large proportion of his best land to an ii to be the compare therefore, automaly the first objects

As an illustration of the alteration of the alteration of the alteration of the structure of the following the structure of the following the structure of the

"In one of his Lept sermons, preached before Edward VI. "fffir excluining against the enclosure of common fields, "and other oppressions practised at dust time by the nobility "and gon'ry, he takes notice of the moderation *nt* .tl.- land-« lords, a few very before, and of the ense and plonty enjoyed "by the termins. As a proof of which his ailds, that upon a "form of four pounds a year at the atmost, his father tilled as much ground as employed half a dozen men; that behad it stocked with an hundrest abeep, and thirty cows; that he found the king a man and a horse, himself remembering to have backled on his father's harness, when he went to "Blackheath; that he gave his daughters five pounds a paper at maxings; that he lived hospitably among his neighbours, " and was not backward in his ideas to the poor."

Thursaston remained an open field till 1798.-SEE ESCLORUNES.

The reat of fames in Leicestershire may be reckoned from one pound to two pounds per scre, average 50 shilings's the reat of water meadow land, and good grass,

TITUES

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and other-tain! Letat towns, three pounds to five pounds per acce, avid iii some few instances higher ; but this subject can only be stated in a general way, as minute in-T quirter of this kind are looked open with mapping, and must completed as an over ourient prying into private affairs. Bake The credit given for rents is three months in hand, generally stockents due I addy day, paid about Michanner; and due Miby a chaelmas, paid about Chalarnas; but with some variations, ended The real annual value of the county, including the residran dencies and occupations of gentlemen, and rems of houses to y in towns, must, 1 think, he betaeen 2700,000, and wir 2500,000 per annum. Mr. Throshy observes, *land mare* at *Leizenter let of five shillings per acre in* 1700, is not five at paineds per ders.

SECT IV .- TITUES.

Tree ancient enclosed land is generally titheabley, the modern enclosures are as generally exciserated by an alletment of land, which is commissly about one-seventh part of the whole, in lieu of tilles : but I was informed by Mr. Grahum, a retifient farmer, that upon the enclosure of Queensborough, one-with of the land was hiven up in hea of great tithes, which in the open field state had been collected. addition, and an annual money payment was given in lieu of vicarial titlies; the few remaining common fields are in the enclosures in the vale of Belvoir, the titheable_ tithes are all exonemted, either by an allotoriene of land, or by a corn rent; in the latter case, commissioners name, or specify how many agree of corn ought to be cultivated, and the average price of wheat for 14 years past, and thears deduce a specific sum, to he is lies of utine summally, at the .

TITHES.

end of 14 years, this is liable at the instance of the parties to be renewed by a reference in the same way; the old unclosed part, of every new exclosed township, has also been exonerated; no histance but of one rentery in that part of the county.

Mr. Watkinson of Woodhause, stated to me, mardan form-rily used to pay for tither to his neighbour, Mr. 805, rick, who is lay impropriator, eight shillings per ac20,500 tithe of wheat, and six shillings for all other g-107,508 pulse; but since grain has taken a higher price, left, by consent of the parties, to a timed person figs in the tithe. The tithe owner is a gentleman of grey not much addethe parties are on the most friendly terms, on the real

In the case of titles belonging to the rector rally looks for the full value, being generally in mg 27 years, constances: this frequently brings on alterestificars to the understanding with the cultivators, when I have depreciated speak of titles in the most bitler terms, and it of time in, sions hand to be thrown to grass; and there can be's of quabut the quantity of grain grown, is lessened by it, ideal being titleable. It is therefore very clear and certain, an equivalent in land, given to the title owner, is in all cases, for the bonefit of all parties interested, and an object of public utility.

Experience has already proved, that no evil, or meanvenience can arise, from giving hand to the sector in lieu of tithes. In the value of Belvoir, the experiment has, neer made over and over again, to the matual sufficience of all persons interested. The sectory of Battesfeed, open the enclosure, being commuted for in band, in now worth tipwards of 2000 per minum, in landed estate. I understand that the tithes of many of the old cardiased patiches, as well as of some of the few remaining common fields of this county, are in the hands of fay impropriators. The

POORS RATES.

The vicential titles are in many cases c impounded for by a models, or real-charge in money, which is generally i in real value, having been fixed in i inter, and not since alterned. Where title is collected in the mod, Mr. Marshall fine the custom of this district to be, to take every tenth titles the custom of this district to be, to take every tenth titles where the titlemon sets them up; but only every on each if set up by the occup- but only every of encent fine hand, has certainly a monomore in alternet of eeel of up of the occup- of or for as it would no doubt check and stograte all institut the bass, and by stadows, the former has that tendency report to diagoes the stadows, the former has that tendency report to diagoes the stadows, the former has that tendency report to diagoes the state of the second stograte all institut the bass, and by stadows, the former has that tendency report to diagoes the state of the second stograte all institut the bass, and by stadows, the former has that tendency report to diagoes the state of the second stograte all institut the bass, and by stadows, the former has that tendency report to diagoes the state of the second stograte all institut the bass, and by stadows, the former has that tendency report to diagoes the state of the second stograte to be waited.

- Hieut

SECT. TT .- POORS' RATES,

abent of hast 5 poors' rates in this county are very various : in many the - of the parishes merely agricultural, as in the vale of Bel-C voir, and in many other farming and grazing districts, that have kept clear of manufactures, the poors' rates continue low, not exceeding at the present, from one shilling and aixpence to two shillings in the poind, upon the real anmual value of property.

> But in the monufacturing districts, and in some distressing sensors, the poors' rates have risen to an enormous height. In 1801, as I have been informed, the poors' rates of Barrow on Soar, containing about 3000 acres, associated to x = 2000, which is thirteen shillings and four pence per acre. The purish contains, besides farmers and their dependants, 3 good many lime men, and stocking weavers.

POORS RATES.

Also in the line of W 'Odhouse statr is me, that is not in the partial is in the partial is in the partial is in the partial.
P⁽¹⁾ Here: a good many stock in the partial.
Arcording to return the block in the partial.
Arcording to return the block in the partial.
And is published in the block in the partial.
And is 1 100.

being in the latter state, upwards of five shillings in the pound, upon an estimated riskal, but probably internet more than three shillings in the pound, upon the real annual value of all property.

In this la. In this last the from 1776 to 1809, being 27 years. His value of *i*. In the propertion it bears to the value of the leading network of life, has been depreciated of the function that they have once doubled, instead of quatter drupled; the further opparent advance being ideal only.

Also it may be observed, that of the money collected by the poors' rate, one-fifth is applied to other purposes, as county rates, or constables, and churchwarden levies, overseers' expenses and law mits being included; so that deducting that proportion from the above, the real expense of the poor is now about £85,000 per anoum.

Poors' rate Melton Mowbray, in 1776 287 12 Ditto, average of three years, 1783, to \$5 455 11

LEIDESTER.]

Poors'

LEASES.

Poors' rates of the whole kingdom, in 1776 1,679,585 Dutto, of the whole kingdom, 1803 5,161,813

The poors' rate of Leicestershire has therefore increased rather more than the same, upon the average of the kingdom; thus,

Increased in Leicestershire, from

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1776 to 1803 - As 10 to 40². Ditto in the whole kingdom, ditto A^s 10 to 31, nearly. Hence it should seem, that the mocking trade in this county has sustained a greater depression, than the average of the manufactures of the kingdom; and that the wages of these therein coupleyed, have not advanced in proportion to the advance in the price of provisions, which is doubtless one principal cause of the advance in poors' integ.—Ses Poors, Cake, XVI.

The sum actually annually expended upon the poor, heing as above, £66,000, is about thirteen shillings and four pance per head, upon the whole population; and as Mr. Rose's pamphlet has stated 12 in a hundred to be purpers, it is rather more than five proceds ten shillings per head per usaum, upon these receiving it.

EUT. VI.-LEASES.

Mn. AINSWORTH says, leases are often granted, and they have a tendency to promote improvement. A farmer cannot creatine his skill and industry, with that spirit which is necessary in all important undertakings, without some probable recurity for the enjoyment of the fruits of his labour ; death may perhaps take from him a landlord on whom he could depend, and whose word was equal to

LEASES.

his bond, and the estate devolve to mother, who regardless of the engagements of his predecessor, may give him notice to quit, or may raise his retit. He may be so notappy da to differ with him in politics; or his dog may unfortunately kill a bare, which has been bred on the farm; the consequences of such slight offences are well known. It has been justly observed, that the emittention of small or moderate farms by their owners, is generally productive of the best and meet improved modes of agriculture, as the farmer finds himself doubly carcouraged by interest, and the security of enjoying the finits of his labor if.

Mr. Marshall states, that although a very hundable and commendable confidence between haddord and terrant often exists, and the security from which may be considered as good as a lease, yet off-estates are sometimes sold by the most respectable families, in which case the expense of improvements by the tenant may be in a great measure suck, and he gives an instance.---MIDEAND COUNTIES, Vol. II.

In occupations from year to year, an agreement has sometimes been entered into, for the tenant to be reimbursed, in case of quitting, for such real improvements as he shall make, or for what remains of such improvements : and although some difficulty may arise in ascertaining what ought to be paid in such a case, yet as there are metric overy district, who are adoptate to the task, it is better for a landlord to give that security, than to let a farm go unimproved ; and for a tenant to accept it, than to run the risk of sinking, or losing the money in expended.

The clannes of such leases as are grouted, vary according to the mature of the soil, and custom of the country; they use often longer in form than necessary, and contain much incless matter. Some modern ones have been simplified and brought into less compars. But according to my obstruction, there exists amongst genilemen, residing in the

EXPENSE AND FROFIA

inidst of their nee to grant leases, under a of ke nore dependant uprm the will and pleasure -tr. Monk's V^Tll, OBS• TO JMPRo

SECT. VII.-BEPENSE AND PROF T.

RESPBCI in the expense and profit of firming, as applied to addividual cases, it can only be estimated, as a person would be suspected of more carlouty than decorum, who should press any questions tending to discover individual profits, and would receive (or could expect) none other than evasive answers. Theoretic calculations are ensitymade, but would not always be realized in practice, aiul the success of all extraordinary exertions must depend up on a combination of causes ; with respect to the indusrrious and careful, small and moderate sized farmers of this county, it muy be said they have the decessaries of life about tin-ui, ;• id auch part of its comforts as are adapted to their station; and if they rear a family, and place them decent!', in the world, little n one is expected. Respective those upon a larger sc:ile, U«y are often men of property. and hy employing large capitals in the breeding aint graing speculations, conducted with judgment, attention, and princerance, considerable profits are sometimes, and to ht to 1}' in i. It bins! ht to prove ked, that the profits from land, I. that gh sure are slow, and dot to be compared in rapidity of • munition to those, from successful i and the successful i lati-

ihallcon f the p. tinks the prof

0.96

EXPENSE AND PUO

those of the merchant, -who depends upon wind and in the second se is left at the will of the elements, without any surety;" and gives i, >ck starvir from the starvir drotight. However, I am of epinion, and always was, that from attention and ie profits i ling are but little a0> and by the mass if the weather be wholly favourable, uv. if excessive drought, or excessive ruins occur, they are public consequences must be born by the public; and it' such be general, high prices are sure to ensue, A difficult or critical season opens a field for activity and exertion, and those whose management has .een, and is above par, will generally be gainers by it. In 24 years experience, upon a considerable scale, I always made the most money in difficult seasons. I state these circumstances, imulus to exertion and improve Land the most improved, is the least injured in inclement seasons.

1 3

CHAP.

CHAP. V.

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IMPLEMENTS.

b»CT. I.—PLOUGHS.

THE ; i common us county, is the country plough of the midland country. very generally used upon all sandy, gravelly, or loanny soils, of moderate di moist or tenacious. This plough was formerly very generally guided by hand, constructed to make only one furrow, aut.1 drawn by diree or four liorses, according to the slate or has a second due to a and a boy to drive. Somewhat more than 30 years ago. Ytiice^ were first applied to the fore end of the brane, and it was found that by pitching the plough a little deeper, and setting the wheels so as to prevent its drawing in too deep, the whtels were a sufficient guide, and the pleaga required no one to hold it, except in places of difficulty; one on atteiulh team, turn the plough m and out at the ends, or guide it

Soon after another furrow was added, by splicing an adability $\pm I$ beam to the off side of the former, one somewhat lengthened, with foot share and belloard; the same number of wheels, viz. one on e»ch ade, guiding the two for-

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PLODOHS

thus; this plough is now very generally used, drawn by four or five horses, and can in all common cases be managed by one man, without an unintant; but in difficult work; a driver is sometimes allowed.

RULES OF CONSTRUCTION.

A the foot or sheat, b the beam, c the contex, d the share with its side place, c the hast, ff the inside of the shelboard, g the master that to prevent confusion, the other tail is not represented, this thing meant only as the hand side of the plough. The beight from the bottom of the furrow to the line of draught is 18 inches; before which is were applied it was only 10; the beight from the bottom of the furrow to the number same the tail three foot.

HORISONTAL SECTION.

P the point of the share, p q the had not braten. SS incheschoog, q s the plough bottom to octean the farrow, nine inches wide, the bottom of the plough cuts the soil with an angle of about 15 or 16 degrees p r the upper part of the shelbourd, or mould bound, which presest down the farrow ; this extends from the plant of the share about three feet six inches, and spreads to near eighteen inches wide; it acts against the farrow with an angle of about 24, which will clear itself in most soil, in s state telerably dry. The off wheel, which is the highest, goes along the near side of the last mode farrow; thus gauging the width of the new farrow to about nine inches; it as made moveable to different widths, the near wheet goes upon the unploughed land, and gauges the depth i it is moveable higher or lower, by a rack ; p t the wing of the share un-

derminues.

LOUGHS.

the manual bound for the secondary beam, foot the secondary beam, foot

These ploughs are next compact tools, and if their force of draught he not increased by the wheels, so as to require more power to keep in motion than some others, they jin ist be equal to any ploughs now in use. In moist to hacir as soils, by lengthening the mould board and bottom of 111c plough, it may be applied to the soil with a more acute angle, and would then clear itself the better. The mould board is very frequently of cast iron, otherwise of wood plated ; the bottom and land side of the plough is also plated with iron.

The planths upon Lord Moira's farm are not very distinct, or different from this, except that there are no wheels; they are held by hand, and drawn by two horses abreat, guided by reins, in the Norfolk and North herland manner. I saw them ploughing bean ground a second time for wheat, in which they went on well. 1 remarked to the farm bailiff, that I thought the ploughing of a strong ley, would be too much for them; but he says they can do it, and more horses than two are soldom or never used. 1 most remark, the horses are well corned, and well kept, besides being naturally stout, still, strong increes, the ploughe too, are light next tools, not overloading the team; and I suppose there is some advantage in drawing two abreast, they being nearer their work ; or from their similarity to the common wheel plough shove described, I do not see why they should go easier, or be drawn with less force, unless it he supposed that wheels mercase the frict-ou, or in pade the motion of a plough :

H.



HABROWS.

it must however be confessed, that these wheel ploaght are seld on drawn by less than 3 horses, tmd Inc 2 furrow clought have commonly 4 or 5.

The old, instance of it at work on strongish soils, drawn four horses; it is a clumy heavy looking tool, and the hvrses seemed as much louded with it on a similar soil, as Lord iV dra's team of two horses only.

On A descent of the set of the county.

Ti enclosed draining ploughs of various constructions are made in the county. It a very ingenious manner, by dimers, Hanford and to of Hathero, near Longhborough statistical vertification is annexed in the appendix, and I would willingly have procured or made drawings of the implements of their construction, but they had not near a full assortment at home, and unless such drawings are well executed they do not conserve a clear ning.

2. Harrows.—The harrows in general have nothing singalar in their construction : I give a drawing of a poir of Lord Moina's, principally for the simplicity of their coupling, which is a wooden sheat fixed on two pins passing through the middle hall : this not being closely confined, but left to have some play, gives the harrows hill liberty to work about, and yntreffectually keeps them assunder, and prevents their entangling or failing foul of each other; and it may be taken off, or put on, almost in a moment. It will appear by the drawing, that if the trans be so managed as to give the line of draught there immited, the times or teeth will each cut different ground, goin; 20 in a yard, or

ROLLERS

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about one inch and three-quarters anuader. I do not know that any particular form of the harrow can give much greater advantage.

Mr. Hanford has constructed harrows of the diagonal form, merely to command this advantage, of each time or moth catting different ground; but I am not sure whether the above form with the off trace lit out, so as to give the line of draught its proper direction, is not equal to may form of the harrow that can be devised.

Respecting the price of ploughs, harrows, and implements of husbandry, it is difficult, and indeed the unders refure to fix a specific price, as that depends upon the strength of timber, and more particularly the weight of iron-work used in the construction : the price of iron-work is, for heavy and plain work 4d, common work 5d, and screw-work 6d, per lb.; but the intricate work often applied to machinery is worth 1s, per lb. Dishley, sud many of the principal farms, keep a smith as an hired servant, constantly the year about.

3. Roders — The community simple roller with a pair of dates is still the most commixing. 'Of stone rollers I are interested in agriculture, though they are not uncommunity planes. Of rollers divided in the module I save none bare, though they are chewhere used, and cald to turn much better them all of a piece, and with less distinctions to the statice of losse lands when turned short again. Heavy row rollers are used by gentlemen and the larger formers to toll guids land and meadows, and are avery capital tool to tered and complete to the statice of losse lands when turned short again. Heavy row rollers are used by gentlemen and the larger formers to toll guids land and meadows, and are avery capital tool to tered and complete to the statice. The most romarkable roller I are a t² is county is the double spiked roller at Lord M dates at counts, of two rollers, each about 9 inclus damages armed with



DRILL MACHINES.

fixed in a frame and mounted upon wheels about three feet and a half high, with double shafts fixed on the frame; there is also an upright post windlass, and power of pallies fixed upon the frame, to raise or lower the rollers at pleasure, without stopping the machine. It is put in an tion by 4 horses drawing double. The spikes of the rollers work in and mutually clean events other. It was made at Newark; is a new invention, and cost S0 guinens i a feer others have been made. Mc. Ritherford, his landship's familing builtif, reports it to have a great and good criter upon strong trancious soils, and upon such, thinks it a very us;ful ; uplement.

4. I) rill machines .- Cooke's drill has been long in the hamis of the principal farmers, and is now pretty much uscel at Lord Molra's, Dishley, and by some other principal farmers, but not by any means achierally. Upon Lord Moira's farm, oals are sown broad cast; harder and wheel generally by Cooke's drill; it has in 5 rows at a time, at 12 inches, or 6 rows at 10 inches; a set of scanifiers are fitted to it, and increasing the ment as boost, drawn has a borse to ci.t up week and loosen the soil between the rows of barl-y or wheat. At Dishley, Courses doll is often used to lay in all kinds of grain, and even velocities [oneyboui a observer, that it requires some attention. but not inure than a stand second of balance out the second lie assures me he has succeeded well in hyperin canot seed b> this marking, though thought to difficult a seed to sow ; for thus sowing, the carrot seed must be well rubbed, and then intimately mixed with sitted spuchast, niter which the ladies of Cooke's drill will deliver it equally regular with 'This machine surceeds best where the land is other setd. son; ewhat loose and fraible, and not too tenarious or stiff.

Bailey's Northumberland drill is used at Lord Moira's,
HORSE-HOES.

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for himips, and I believe also for beint; it lays in turnip and one of two rows at a time, in ridges colled flat, at about 4 feet 3 inches diamit, and beans at the same disturne; they are either crop afterwards hold, or moulded to not a hora-los plough, and finished cleaning by hand; the horse-hold greatly facilitating the business, and to greater noi a sum assumer. This mode of sound turnips has been practiced at Diabley and chew here $;^{i,l}t$ is now given up for broad cast; the latter producing plants, th well as being done with under dispate h.

Handred C. of 11 the bound of t

5. Howe here, Of these several sorts are in use to mode up beans, potatoes, turning, cabbages, and any oilier plan', set or sown at a proper distance; for which pu; one a light plough turning a farrow either way is conmodely use L Han ord and Co. make several sorts for this purpose, as well as for cutting up weeds: two or three outs used at Lord Monta's are made by Mar. Dougale and Hill, Oxford-street, London, either for cutting weeds or moulding up; they have one wheel only under the beam; --price about 2 guinens each. One of them is very curious; it consists of two small light ploughs, the one turning a furtow to the right, and the other to the left; these .hen put close together make a common moulding plough; or when divided six or eight inches samder, which they are combucted for, they bestride the row of plants, and di-



SCHUFFLERS.

vide or cast down part of the ridge either way, having broad or wide iron notches at the fore cast of the beam to eivible the horse to draw it when going between the rows. Till se modes of shortening labour are peculiarly useful to this county, where I understand all kinds of face labour to be high, and work people scarce, owing to the facility of couplement in the stocking trade and other populations.

Very ingenious transplanting tools are made by Hanford and Co. for transplanting turnips, other plants, or small shruba; they dip round the plant in the borse shoe form, arc tiod down round it, and by means of its bandle, which acts as a lever, similar to the docking iron, the **plant is taken up with the carth adhering, and replanted** without separating from the carth around.

SECT. II.-SCHUIFLESS.

SCHUYFLERS, or cultivators, are pretty much used upon turnip and other fallows, as being found more expeditions than the plough, and more effectual than the barrow, in working the soil, fetching out couch grass roots, and destroying weeds

The following is an improved and approved form used in this county, with 7, 9, or 11 teaths:

The teeth or tanga are hummered out broad at the point into the spoon form; the handles or tails are used to lift up the implement to let out the rubbish when collected. The teeth marked 10, 11, are sometimes omitted; they are all moveable up and down at pleasure, and fistened by screws at any height. Those marked S, 4, 5, 9 are changeable, that is, have two holes apiece, which they can be shifted?

THRASHING MACHINES.

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into according to the state of the rabbish, or the soil ; the acck or part of the tooth below the wood has the corners taken off to prevent entanging the rabbish, or enting the couch roots, which latter is not desirable, as it makes one weed into two or more. The machine is mounted on 4 wheels, and drawn by 4 or 5 horses, or a good team of onen. Every other form of the implement has given way to this, which is supposed the best construction it is capable of.

G. Thrashing muchines are fairly introduced in the county. Lexamined one upon a new farm of Lord Mon's, upon Ashiry Wolds, huilt by one of his berdship's tenants, Johnson, at the expense of f 100; it has been lately crected; the constructor, Noon, of Burton-upon-Frent; a 2 house power called, but better worked by 3 borses. Mr. Johnson had tried it upon oats, of which it thrashed 150 hashels in 9 or 10 hours, doing the work clean and well. Seventy bushels of wheat, or 80 of barley, are expected culates, that with a 1 horse cart, and 3 horses at the mill, with 4 men and 3 boys employed, he can get in from the rick yard, thrash, clean, sack up, and make fit for market the above-mentioned quantity of grain in my fine day. The thrashing mill takes out most of the chaff ; it is finished eleming in a winnowing muchine. A good out straw rick and beau made from 2 mays thrushing.

Several other thrashing mills have also been lately crected in the county. Mr. Stone, of Knighton, has one, a 2 horse power, at 70 guiness; Mr. Williamson, of Gaddesby, a 4 horse power, at 2100; and I was informed there are 2 or 3 more to the neighbourhood of Leicenter.

To attempt a minute description of a thrashing-mill would, I think, he malest, as it would be difficult to convey a clear idea of the machine, and there are now plenty

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ORATE-CUTTERS.

of constructors in most counties : the main wheel, to which the horse power is applied, is fixed out of doors, near one side of the barn, and put in motion by the horses going round and round, and may easily be covered by a rouid rouf; this communicates with the mathinery willin *d* oors, which is adapted to being put up in my common barn, not occupying much room. The core is delivered half winnexed on the former thrashing floor, and finished cleaning generally by a winnowing machine.

Portable thrashing machines, to move from ban to been, have been talked of, and I believe constructed, but I heard of none in this county.

7. Winnering muchiser.—Of these there are several makers in and connected with the county; Res. near Burton-spon-Trent, makes good ones at from 27 to 28 each; and J. Cornforth advertizes as follows; his markines are highly improved and approved, and he has made more I appose than any other man in England :—

Improved Winnersteig Machines. J. Comforth, Chapel Ash, Staffordshire; respectfully addresses himself to the harmers in Leicestershire, and thanks them for their preference, who have purchased his improved Winnowing Machines, and informs those gentlemen who yet want the article, that they may be supplied as most from Chapel Ash, or by applying to Cort, Cort, and Barston, Leicester, where muchanes are kept, and orders received.—N. B. Any gentleman doubling the utility of these machines, may make trial gratis.

S. Chaff-cutters, bruisers, &c.- Of the former, those worked by hand are a common tool in the hands of every considerable farmer; and various improvements have been introduced, particularly that of making the machine feed uself, the giving the knives or cutters a circular motion, and turned by a windlass; but the best nucline I have seen

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WAGONS, TUMBETLLS, CARTS, &C.

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for • hat could get that by barrell, of the firm, Nortolk one horse works it; it will per minute from hy • »r Mraw per day : — the price 204 at The ford.

milar to the bain machine for chaff-cutum is the nip-' of the principal faine of the band of the band of the truth of the faine of the truth of the

Of bruisers, different kinds have been constructed; one into been to puts the grain or pulse to be bruised between 2 stone rollers, mother upon the malt mill principle, and a th!¹ d upon that of the corn mill coarsely, or not too closely at; but even the principle or theory of the utility of bruising jirrain is pulse for animals has been dispute I, am! objected to by in the Phytologia, who thinks that when given principle, more matritions, and the reason assigned is, from the other, being better mixed with the

in greater quantit

inaslicated food, •uble ilicli LITOW \S

double ing; the latter •rills ar* U or *Shot I*. Tuinbi muck, gravel, atoi

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BORERS, DRAINING TOOLS, &C. 65

less streng li, ami are of "en dimwn by 1 horse, or by 2 oxen or 'adifers; these latter have been much used at Dishley for this purpore.

one home covert and a for ii on the ieniens ieniens die j .-•slier and t!

i and U. and tradesme : id gi will tiiua easily the horse, id gi two on

10. Address more, spinders, and det, etc. — Some ingening teeth, that will spring back to their proper situation from any reasouable for a solution, are made by finantial and Co. —Set: thy, a direction from the Co.

cling SJ is the barrier in the barri

11. Barers, Draining tools, wrighing engines, Ac-Tlie borer i sed to top springs is a large anger, which had long been in use in making countries.—See the article DHANtwo. The other draining tools are, a knife to cat through tough turi, spades and shovely of different breaklas, particul uly a mirrow and deep one for the battern spit, scoops and scrapers, southles or backets for moving stone, and a has-e baminer for breaking stone into smaller pieces.

I EICESTER.

Respect-

MISCFLIANEOUS ARTICLES.

Respecting weighing engines, except those attached to the public tumpike roads. I meither saw nor heard of any ; the breeder, the gravier, and the bitcher generally depend upon their senses of sight and feeling for the weight and value of heavy stock ; and sheep, or stock of the lighter kind can be weighed in scales, or by the steelyard; but practice and habit enable these interested to judge near enough for the purposes of barving and selling.

12. Micculaneous articles.— Among the other implements, the trailing mounted upon 4 low wheels, is to be found shout many genillments and firm houses; it coulds of a square frame resembling the bed of a wagnon, to ar 19 feet long and about 4 feet with, bounded on the bottom, and fitted with thropples or partial harvest genring : the wheels being low, this platform is only raised between 0 and 3 feet from the ground, which makes it very convenient for loading and unbouring. It is used for carrying faggots, poles, posts and rails, implements about the tarm, stubble, or my old fragment of hay or harvest, and from its low construction, is much more handy for such purposes than a waggon, text, or tumbell.

Contained, at Dubley, where a great many coltahave been bred and reared . I shoulded the amiewed solt's trought it consists of a cratch in the centre for hay, and a manyors projecting from it for earn, the whole roofed, with bourds, and mounted on a wheels ; the provender is all kept day, and the master colt cannot readily drive away another without losing his carn, as the one so driven can immediately drop in at the vacuut place, undus they are obliged to stand somewhat distant dies cannot readily kick or lite each other. It can easily be moved about by a man in the field with a lever, and is drawn from field to infid by borses ; a bolater is arached to the fore-tale-tree to enable it to man about. The scale it is drawn by is a quarter



MISCRELANEOUS ARTICLES.

quarter of an each to a foor. The bay may either be put through the upper part of the openings above the mangers into the cratch, or a trap door may be left over the cratch through the roof for that purpose.

Brake for all soing over or helfers, or for farriary.-This also I sketcheid at Dishley, where they have long nied in for the above purposes; it consists simply of 4 posts fixed, firmly in the ground, A B C D, with strong nile rails; the minual being led in is confined by 4 broad strong straps going over the back, and under the helly; c f are 2 braches hollowed on the top for laying on the fore legs one at a firme; the hild legs are held out when wonted one at a time by a long wonden lever. Mr. Honeybourn assures me, that a time and a hoy will thus shoe the strongest ox, and that a horse for farriery is at easily managed.

Grave finited hardie.---This may be deemed scarce worth naming, being simply a hurdle, which instead of being set in the ground is mortised and tenoned into 2 cross feat, of 5 or 4 feet long, lying on the ground, and therefore moved about merely by lifting it from place to place. It is in use at Dishley, and found very useful set before a gate, to prevent it from being forcied by any strong animal.

Stock, for putting even to the ram, consists simply of 4 stakes, a b c d, driven into the ground, between which the head and neck of the owe are fastened when in use, and tied with a rope or cord, to prevent her fatiguing the ram r this is practiced in the best flocks, and will cushle a valueble min to upply a greater number of even than he could otherwise do promiseuously.--See the article, Sugge,

CHAP. VI.

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ENCLOSING.

SECT. I. ASES BY ACT OF PAKLIAMI

:>portton of this county lias been enclosed in modem times, and within the last 30 or 40 years, under the authority of different acts of parliam very little of the count: mains unenclo wastes: I suppose the whole county dot aore than 6 or 8 open fi that liand.

The enclosures ia the vale of Belvoir have bc-i considerable, but these belonging principally i >uko of Rutland, ha noticed in chap. ii. under the NAQKM ,-TES. Inal> sure, if the fences arc well managed they soon gi in 7 years every appearance of the common fu rated ; and a stranger would form no idea of its having been so lately in the common field a assume appearance of an enclosed count

In the autumn of 1801, I exam he two i logures of Swithlaiid and Thuvcaslon, but I think but J agriculture ii to 1) from hence j they

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are both of the san. and then seemed to under cultivation since s d, I believe the dale of Ian i^ood i the ancient n LVAnvi mines are losurcs about the is 35H petual \$iu .eit me^ani .d weeds.

The Tbur< store enclosure is of the same age, and of much greater extent; it consists of a deep light or greelly loan: a mine but weeds about one so withland only in sttiller quantum. These enclosures are formed \uth 1 rows of part stat rail, such containing double cits, with a inound beneath the order rail, and quarks on planted between; the expense of enclosing in this manner, indepentent of add of partitioned, commissioners, surveyors, &c. may be thus estimated, per perch of 8 yards;

Six posts and 12 rails laid down, 6d each		9 0	
Mortising, shurpening, and setting		1 6	
Dipches and mounds on both sides "-		1 0	
Quickerts and planting	14	1 0	
Keeping clean and repairing post and rail	-	0 6	

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If we suppose a square mile divided into 10 acre enclosures, it will contain 640 acres, and 15 miles, or 3960 perches in length of meh fencing, at 13 s. - £2574. This is upwards of 41, per acre, besides the additional 23 expense

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expense of gates, &c. but as all enclosures are less uniform and more divided, I suppose the expense will be .45 per nere.

In ! sitestershire enclosures well managed 7 or 6 ymm raise the quicksets to a fence, and the post and rail are taken away; also, in that time, the land well managed loses all traces of the common field, and becomes a regular enclosed country. The sort of quickset universally used and preferred is the white-therm or haw-therm—Crategue monogynm.

As in this cannot stock is the principal object, and an farmer has then it any degree of opulance, without excelling in that particular, thege proportion of the best suila me upon enclosure naturally hild and left to permutent pasture, so soon as a good that can bedformed, which will graze well; upon which principle the enclosure of common fields lemons the breadth, and perhaps the general produce, of com, though it tends to increase that of animal food, and of that produces from minimises there it will tollow, that the enclosure of waste hards should accompany that of common fields, as wester tanks open enclosure are generally obliged to be kept for many years in contration.

The enclosures in the vale of Belvor have not le sened the population, but it is admitted by those who effected them, that less core is grown than in its open state, but fewer houses are kept, and less oats consumed.

Queenihorough enclosure - Levent over this enclosure with Mr. Grahame, who accupies 400 acres of it. The ser of parliament for this enclosure passed in 17191.

it consists of a division of soil; it. Strong city loan, on a clay much bottom; 2. The sand had, so called here, consisting of light soil on a samiy or locse gravily bottom. The emplosure was by 2 rows of post and double mil, with mounds and quicksets; no hants to be kept for the

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5 first genes of the enclosure, but this not strictly adhered to. The land had for the greater part been, time immemorial, in the 5 shift tillage, 1 wheat, 2 beams, 3 fallow, with some variations on the sand land, and was pretty much enhanted; produce acidom more than 2 quarters per nero, of beams or any other crop: a considerable proportion of old pasture, and some patches of grass haid, for moving or tethering stock.

Mr. Grahame says, this land in its open state was very improfitible to the occupier, though reated at from 10 to 12s, per acres the great exponent of cultivation, and collecting crops from patches of land dispersed over the whole loudship, the trespins from stock gening loose, and loss from disorders in shorp, particularly what he calls the water, which I understand to have been watery bellies (dropsy) was such, due he thinks the occupiers could not have goine on; the enclosure was 2050 acres. The principal and almost sole proprietors were, Mr. Lovedon and Mr. Hungerford; the former was lord of the manor, and lay impropriator of great titles, which were-collected in kind.

The church living was a vicavage, depending upon small titles and ices. Upon the enclosure the great titles were exonerated by giving up one-sixth of the land; and the small or vica ad encs, by annexing a small globe to the vicarage-house, in addition to an annual money payment, subject to variation with the price of corns the exact particulars of which Mr. Grahame did not know. The encloence at £5 per stre would cast £10,250, but this would not cover the express of act of parliament, and charge of commissioners and surveyors : the expense of these latter I have no means of ascertaining.

The rent, according to Mr. Grahame, is now 23s, per acre upon the average, title free; the former average rent

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iving been 11s-, advance 1 JO per annum. The enclosure has, thes a good specuc praj. oitld ti >vill be able to go o

The member of sheep kept in the common field system way, 10 flocks, of 210 each; there were folded on the follow field, counting in the lambe in May, when the colling ewes with their lambs were sold off in couples, and the whole stock reduced by sale to the above number; (liesq there mader the care of 3 public shepherds, at 200 per anning each.

i' as poors rate in this particle is now allout 7 s per acre, making with the rent an average of 30s, per acre, making with the rent an average of 30s, per acre, making with the rent an average of 30s, per acre, in the other of horses, horsed cattle, and sheep now kept is not more than in the open gives the present stock of the different social stands is about 1 per acre. The acres of the different social stands is about 1 per acres. The acres of the different social stands is about 1 per acres, the acres of the different social stands is about 1 per acres, but Mr. Grahame thinks the produce may be shown the same from getting better crops in the acres, wheat, and other grain.

A much greater breadth at green food is now culturated. Tvo: Mr. Mr. Mr. Sheep to S Oiey bt the} brought down at 1

The village contains a number of tenements occupied by tking weavers, who frequently take apprentices, and titua make periodiopers (this accounts for the high poors'

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rates;) when the farm y apply to the erj

stated has no more corn grown, nor greater number of cattle kept, or increment produce of bitter, cheese, or beei, no more the p in number kept, but of better quality, with much ever losses, and sold fat instead of leans from which cause, as well as from the greater convenience of munaging hand concentered together, instead of dispersed and intermixed; the occupier is enabled to pay a greater of it,

Respecting human labour, and employment for the poor, the balance seems to go rather against the enclosure; the breadth of plongh land is certainly contracted, and the business rendered more convenient, both which circumstances imply a necessity for fewer lands.

The management adopted in the day land is as follows: 1. A certain portion of each occupation, but in what proportion I could not exactly accertain, (though I think it must exceed a fourth of the whole), is set aside for permanent pasture (I suppose it may be about three-tenths of the whole), after a course of cropping dictated by the tasilord or his agent: this is upon the best land, as being filediest to form a good award, and make side feeting land. The method mest approved is, to make a summer fallow for harley, and hy drawn with red and white clover, trefoil, and rye-grass; some fallow, for wheat, and sow the success on the wheat in the spring; and some allow balley and areds to succeed the fallow wheat.

On the other part of the clay land, which is permitted for tillage, after laying 3 years at grass, it is ploughed up, and sown with 1, heans; 2, wheat; 3 fallow; 4, backy or outs, with seeds; or, 1, heans; 2, fallow; 3, wheat; 4,

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barley or outs, with seeds; sometimes pease are sown in part instead of beaus: this management has not yet fully mecceded in forming clean hirf, but it may be improved by a well managed fallow the succeeding tillage.

Ji this course, supposing the city hand in 10 equal disizions, 3 of them will be permanent pasture, 3 convertible pasture, 1 fallow, 1 beans or pease, and 2 grain, wheat, cats, or barley; but Mr. Grahame, upon 400 acres, does not grow more upon an annual average than 20 acres of wheat.

On the lighter lamb the course is, L a crop on the tart, wheat, outs, or barley; the stabile immediately ploughed upon inevest being cleared off, and iown with turnips, rape, vetches, or right 2, turnip; St harley, with seeds, and then generally 3 years at great. Size Coursess op Chors.

Small plots of cabhages in the nump field, and else altere or casionally; Swedish turnips in pood repute; sheep rather inclining to the old Leicenter; the tarmers and eided in opinion, and unvilling to go to the expense of creating with the new breach hire ranks, such as they can get, at from 5 to 10 gainers, and have an idea that the old breed; full wooled on the helly, and with a mederately thick pelt, are hardler, and stand the winter better.

Mr. Grahame says, the generally shears 400 sheep, and sometimes puts 200 ewes to the rajo; his annual sale of sheep may be 200, at 43 each - 2.600 And of wood 100 reds, at 201, here, 281b, to the tod 145

Blapherds wages, and expense of sales will take off 45

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Mr. Gr.hamn states, that he folds 0(3) sheep upon his wheat follow in dry weather, and sometimes gets over 15 acres in a sensor , he believes that it injuces the sheep, but assisted in fallow. The other uniones he uses are his farm-yard daug. Has from Barrow, or from Derbyshire, by the Melton Cheid, daug from Leitester, and sont sown on the wheat in March; this had, he says, encoded best when the wheat plane is thick on the ground, but otherwhe it is apt to force words in the vacant phone; he sows from 2 to 3 limbels of wheat per acre.

No drilling nor tillings experiments have been made here, except a few beaus set by hand, in which the raving of seed pays the extra labour i bus they reckon upon little or no advantage in the crop : 1 bashel of seed per acre is saved, about 3 bushels living set, and 4 cown broad cust; the bashel here 34 quarts.

No inightion practices ; a percential stream comes through the middle of the purch, for 2 miles or more; but they concriste it would starte the clay fand, already too wet, and the light land is chirally valued for tillage and green crops.

One induce of irrigation here only occurs; a wind tabiline has been created, to pump up water from the brook, near its junction with the Wiele cover, by means of which, shout 10 neres can be watered; but the owner of the machine never diltks of working it except in dry weather, when the land is thirsty, and thits the wind does not strongs blow; the project is smilled at by the neighhours as a visiting scheme.

The day land in this periods, as in many other parts of the county, is generally thid in broad high ridges, from 10 to 20 yards wide, and train, 1 to 5 feet deep in the hollows, supporting a line stretched across the ridges, to measure from. This like been the curtom in the strong land com-

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tipi de trans time immein and is generally contipi de the enclosure, both in tillage and at the Grahume informed me, that the best core was generally, and particularly in vert seasons, upon hand to hidde at that he should noi loss other the day land in IDS ccupation; the ii bit of and hands are had an /y flat.

In the opinion of Mr. Watkinston, of Woodhouse, entiosiir's have done the most good spon fight sound land, and tie gives an example of Quorndon, now first rate sheep hand, and carrying great crops of barley and groon sheep food. Upon the heavy lands of a good staple for wheat, the improvement is much less apparent; less wheat is prored, in consequence of much less land being culticated; and the attempts to turf the hand have often failed, of which he gives an institute in Barrow-upon-Sour, where after the two that years of seeds, it has produced little of any thing, whilst in the common field system it neight have bon e good wheat.

Contains fields --- The common fields of this county, as has been observed horore, are in very small compast, a few only remain dispersed in different parts. As they are ger, scally under nearly the same course of management, an account of one will serve for the rest; I shall therefore select the partish and common field of Glenfield, as being near the centre of the county.

This parish has had no modern enclosure; its soil may be divided into 3 classes of minagement; 1, old enclosures near the village; 2, gran land, pasture and meadow; 3, tillage land.

The coclosures near the village are of ancient date; the fences being full of toober trees, arrived at maturity, but in small proportion to the entent of the parish; they are divided into yards and small pastness: the grass land consists of hend lands, and margins between the tillage land, including

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including the low grounds or vallies, to which is to he added a considerable track of meadow and pasture on either side a brook 1 and rule through the purch, and alterwards fallgki to the Soar. A good portion of this mendow land was under natural irrigation when I saw it, the preceding days baving been mine. But no vertices of any desistance from a research the curvature of the water-course, which prevents the water from passing off too quickly, I have often supposed upon viewing the curvature of water-courses. that the course was artificial, and a project of our accestors. to irrighte the land; who observing the fertility occasioned by an overflow of water, rather chose to submit to the inconvenience of floods, than be deprived of this advantage. I have no doubt, but the natural channel of a stream as formed by the current whall be much more rectilitienry than they are commonly found : iiiil that when then found the increasity of a channel to keep the water from off their land, they cut one with a deviating course, to drain the land in itommon, and to water it in floods.

The blinge hand, which consists of a moderns ly darkish coloured or gravish loam, is in the usual S shift course of, 1, fallow; 2, whent; 3, beaus, or onts, or barley; the fallows, when I new thom in the nuddle of October, were part sown with wheat order furrow, part ploughed up for sowing with harrows, and part had a ploughing yet to perform. A good deal of lines is used, part then spread and port laying in heaps. Some of the fallows but indifferently nut aged, seemed to have had but two ploughings, but the stacks in the village of my, and particularly of beaus and stacks in the village of my and particularly of beaus and parishes.

I had no opportunity of learning particulars of lithes or of the folding of sheep, having no recommendation to, or acquaintance with any person; and the day being rainy but

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few people ware about: in spite of the weather I examined the field pretty minutely; many sloep, and other stock, graving indiscriminately in the grass plots notwithstanding the wheat sowing had commenced. In some of the forrows between the ridges the water lay in considerable depth, the cross puttering having been neglected.

That this parish produces more systematics and employment for markind, than the average of enclosed parishes in this county, of equal extant and staple of soil. I have not the least doubt; but respecting nett profit, to the proprietor and occupins. I believe the halance to be in favour of enclosure. The occupation of common field hand is attended with extra expense and inconvenience, both from distance, want of connection, and sustaining more trespuss than enclosure; built enclosures are goourally throat to pasture in this county, and stocked with sheep and en Ulc *i* in which little labour is wanted, nor much attendance usresary.

In the common field system, if our half of the hand be at grass, one-third of the remainder, which is one-sixth of the whole, will be wheat, one-sixth, other grain or pulse, enc-sixth fallow, and three-sixths, mendour, pasture, &c-

Upon good deep soils that will bear this tillage, and produce good crops under it, perhaps to enclose it, and turn it to pastare, is not a memore of public-utility. An acre of wheat upon such hand, will, ender good management, over and above the seed, produce the annual brend of a family, of four or five persons, which I suppose to be at least hali effeir sustemance, living in as good a style as fails to the lot of the average of mankind; from which it will follow, that an acre of wheat is equal to the full annual subsistence of two persons or more. An acre of such hand in posture,

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pasture, will not, I believe, furnish half the subsistence of a single person.

But even the common field system is capable of improvement 1 if the follows were better immaged, and the lets of the same person more contignous, more produce might be obtained, at less expense. The beam stabble should be ploughed before winter, for the benefit of the immelieration from frost, which is, I believe, soldour dons. Where outs and barley are substituted for brane, as they often are on the lighter spots, green crops, or vetches, may be soon on their stabbles, ploughed up immediately after burvest, which would thus produce pasture, for the folding of sheep on in spring, without basesing them from the grass land, to the have ploughed follow.

But as enclosores have generally been a good speculation, and enable the proprietor to miss the rant, so as to pay him a good per centage, who is to prevent it, or to compethim to forego his advantage? and is there is a demand for heef and mutton, as well as licend, and the markets must be supplied, who can pretend to limit the extent of pasture, or course the management of private property? The only way then, is to counterast the effect of Essening the growth of corristion and had, by bringing the had and unimproved land into cultivation. By an universal exchance and improvement of waste bands, as present almost wholly unproductive, this is a matter of much greater public majorance than common field enclosure, as being a kind of creating of food from nothing, or where nothing was produced hefore, and filmiching coupleyment for the undittude, and thereby affording them the matter of obtaining it.

It is generally understood, and as I believe an onquestionable fact, that in consequence of the enclosures which took place in this county, during the latter half of the last century, it does not now nearly find itself in bread, notwith-

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standing its fertility, and though its population is very fittle higher thim that of ti< average of the king loin, and it was before then a company.

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The general effect of these enclosures has not however tra, Jcd to *ilm* initial the population of the county, which has been gradually and uniformly increasing; those not wante 1 in agriculture, have found employment in the stocking made, and other manufactures.—Set Popu-LATION.

Mr. Amsworth serve, that grain is allowed to be better pi(t duced in open fields, that in enclosures. In the latter, the hedges and trees occasion mildews, by confining the current of air. This is however prevented, in most enel.)st-d constries, by a good old custom, which is pretty genoral, that of plashing bedges, always the water after the wheat is nown, which not only lets in the current of air, but also secures the crop, by improving the ferice, at ille came time a few of the lower branches are lopped from the trees, where that is permitted.

Worthington common field, usar Stanton Harold, has been lately enclosed. I made the following measurantimus upon it when an open field, 1807. "The parish is part old enclosure and grass piots; and the remainder in the durse shift system; J. Fallow; 2, wheat; 3, beam, or harley, or outs promisedously; some of the promisedous crops very foul with couch grass and weeds. I think there is more fimit here in the management, than in the system; some of the fallows appear to be only twice ploughed in the seman; first pin fallow in the spring or summer, and graze off with sheep, whatever grows spontaneously; then plough back in satures, and sow wheat. It is now, 1807, enclosed with quicksets guarded by post and sail, and the improvement commenced by cleaner fallows and turnins.

EX'CLOSING.

or at least to tlic division of them into] ty; and the advantage of enclosing common pa? .adu ty be so much ing cocum vie.; or agricultural ones, for .

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 When a great part of the land of any count

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 inhabitants will become consumer of land, instead of

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NEW JARMA

bartense :e; a nation bould therefore be presented from bare ining the control on a which was formerly do le by religious fast days, twice a wast ; and the cultivaliou of grain should be producted, which has been successfully danc, by boundies on the expartation of the destructive manufacture of grain into sparts, a classical poison, *Phylo-Logia*.

Mr. Multius has however shown, that the distillery operates as a bounty upon the production of grain, by increasing the dreams, and is so far substary; and the production of spirits from grain can be stopped in years of searcity.

But the onclosure of waste lands, as a measure of pubfic utility, may be illustrated and proved, by that of Ashby Welds, which from a cold and harren waste, grazing only a few half starved sheep, or mules, have produced large quantities of potatoes, and other human sustemance; and in 1807, were covered with considerable breadths of grain, and much of it in good crops.

SECT. 11 .- NEW FARMS.

Upon the enclosures of Addby Wolds, two entire new forms have been established, and enteral large additions made to old forms; one of each of these, I isoticularly examined. The new form, in the occupation of Mr Johnson, held under the Earl of Moins, consists of 256 acres, of which a lease has been grouted for 21 years, at about 13 shillings pin acre, but under the following conditions: 1. The tenant to beyont £1000 in building, upon his own pla but to be approved by the building, upon his own pla but to be approved by the building. A plan of this farmers

NEW FARMS.

farmery is give II III Oil A F.I 11. SECT. II. FARM BUILDINGS, 2. The tenant to enclose the \vl: de, upon a plan :{>proved by the landlord, or his agent, imtthe latter finding all ma-U> rials, 'j he tennet is possessed of petivity and sparit. remarked to line, that I thought his terms not very favourable; but he answered, that it was an object to get possession of a farm, under a faundy that never changes or rack-rents tenants, and especially to him, who is likely to have plenty of successors ; and that he believes he shall be able to work through the difficulties attending the undertaki fie has now, 1807, been in possession, I believe about five years, and has gone once over most of the arable; and the and lie Iegun with, is come round to produce good clo-VET-SEE CHAP. VII. SECT. 111. COURSE OF CHOPS; SKCT. XVII. POTA CHAP. XII. SECT. II. PARING AND BURNING. SEE ALSO CHAP. XVI. SECT. 1. ROADS.

told Mr. Johmon, that I thought three crops after paring and burning were too exhausting to the land; he

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NEW FARMS.

says it is necessary to not the turf and IIIc old 1:erbage, and that the land is restored by the lime ; besides they have the manure arising from the crops on the premises, and restore it to the laud. He keeps eight draught horses, and with them fetches annually 70 wargon loads of une, at six and a half miles. He grows some vetches for his horses, and I and in 1807, 98 acres of oats and barley, and between 40 and 50 of wheat; some of the crops had been g and were in general fair crops, but nothing can be lone without lime. He showed me a barley stabile, in which a smaill part ti.nl been omitted limiting the reckoned the limed part 32 bushels per acre, and the unlimed part eight businels only; and the young clover appeared in about the same proportion : on hand too strong for a green crop, he fallows and the first of the course, for half of and accds.

The Ashby canal reservoir, of 55 acres, is within this farm-SELCHAP, XVI. CANALS. He hopes to make 50 acres of water mendow; at present he keeps only three dairy cows, which he hopes soon to increase; has a good many young cattle bought hi, but * an at present keep no sheep, on account of the state of the fences; this be thinks a great inconvenience and loss, which he trusts by degrees he shall be able to remedy.

On hand too cold for barley, he sows grays seeds with oats. I observed on the Wolds in August 1807, crops of wheat, oats, and barley, some growing, and some crit; stacks of grain made, and making : oats mown, gather bound, and set in rows; wheat stabbles moving for litter; wheat fallows and lime; also crops of turnips, Swedish turnips, and potatoes.

Mr. Smith, of Ashby, who is a great improver, has in hand 130 acres of the new-enclosed Wolds, which has is very capidly improving ; part is an illotment laid to an ad-

JWW.

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NEW FARMS,

Jo.ling farm, and part elebeland, allowed to the rector in lieu of tilbes, and reated from him. Mr. Smith's great means of improvement are paring and burning, fallow with lime, and plenty of drains. V heat after a pared and Imnit fallew well limed, was valued by Mr. Ingle of Adaby at 19 pounds ten shillings per acre ; but without time, the land, and treatment the same, at only five pounds ten sKill'i:

Mr. Smith also sometimes tales three crops to pulverize the soil, before tomaps, or the seeding crop; thus I. pure, hurn, and hone six tons per acre, on a fallow for wheat; his had the paring and burning done at SOs. per acre, 20s. paring, and 4s. burning. 2, wheat; 5, oats; 4, wheat repeated; 5, turnips, or fallow; 6, barle; and soeds; or 4, turnips and fallow; 5, Barloy and seeds; had this season, 1807, onts after a lost fullow, meant for wheat, but too late to sow in good order, and therefore let it lay for outs ; was plaughing the stubble three times for wheat. Mr. Smith's ploaghing here was doing with two plough terms, of a borse to lead, and the oven to follow in each textm, with wheel ploughs and a driver, but up holder; or, a hoise to lead, and four over sometimes draw a two-hirrow plongh.

Draming was done with great spirit on the harsh clay. soil, (SEE CHAP. XH.) and incidows are already forming. Stone on the worlds or rising grounds, beneath the soil is in great plenty, which is raised for rough willing and drainmg at 9d per cart-load ; there swells, or hills, are sometimes light soil.

The course on the globe buil, is, I, pare and burn, and lime for outs; 2, outs repeated; 3, wheat; 4, fallow, or turnips; with lime ; 5; barley and seeds. An out stubble had been cleared so early as to sow colested and tye it) August, and which was very promising for a sheep pasture : this would of course he followed by turnips, I campot

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I camve the thinking that taking three fcrops r is harder tillage than ne-r Eficienily pulverized ilion by fallow produ *a* the state of participation equal to the state of the state with the product of participation equal to the state of the state of participation equal to the state of the state of the state of the state of participation equal to the state of the state of the state of participation equal to the state of the state of the state of the state of participation equal to the state of the state of

and on the Wolds in its open and unimproved state, had (jeen sold at 216 per acre. From these details, it may be supposed the land had naturally some depth and staple, which is the case ; thengh in its open state it had a very mey/o missing appearance from water lying, and taffs of makes. It also threw up furze and heath, but with many bare places of mail grass, (*accellus siziets*). It still abounds with plenty of its sative plants and flowers, particularly regress, (Searcin Ascolum); spream wate, (*acchelles planneics*) and runnes.

CHAP, VII.

SECT. I. TILLAGE.

THE tillage land in Leitestershire is much less in proportion than that of most other counties. In the south, east, and middle of the county, are many fiotances of farms and occupations, without my fillage hand whatever.

In the north and west a proportion of each farm is commonly kept in tillage: on Dishley, form about one-fourth of the land is kept in tillage, including green crops: on the Begammor estate; one-third of the land is sometimes allowed in allage. Mr. Astley's farm, at Odstone, grows a good deal of grain, as do the Mestra Stones' on their different encopationer; but entrand barley are with most of theory a much greeter farourite theory whent.

Ploughing is very generally done with the one or two forrow plough, described CHAR, V. The one-forrow plough, drawn by three horses, will easily plough an acre a day; or, the two-forrow, with five horses, two acres in the same time : the forrow is about time inches wide; and from four to six inclus deep, seldom more for common crops. A forrow nine inches wide requires eleven miles in length for an acre; allowing one mile for turning, the team poes only twelve miles to perform the above task, which

TIT_LAGE.

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at two miles an hour would be done in ?lx houi or die soil r very light or but has and nutnbci jures.i

The ploughing on Lord Moi with a light n IMI •^wll, up a good furrov

MOJe information is given respecting ploughing, and sorts of ploughs, under the article IntPLEMENTS, which see.

Hantord and Co. (SER COLER, V.) Scuttiers, or cuttain vators, now in some measure supply the place of harrows, in wisching and pulverizing lands, but harrows are used to cover in the seed, drawn by one, two, three, or more horses, according to the weight of the harrows, and stars of pulverization of the weight.

Rolling of find after sowing is generally done of spring sown rrops; also, on turnips after now off, to break small clods and level the surface; and always after sowing grass seeds, a plain common roller is generally used. On fallow ground, heavy and spiked rollers are used after the harrows, to break clods, and assist the pulserization, which is sometimes a work of difficulty on strong harsh soils.

Scarifying

TILLAGE.

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cd to my knowledge with Cool it and stir een rov nrley, times j

Index and particularly in the action of the rate of t

Drading is tarriv introduced in the county. Cooleds drill, and its appendages, are in the hands of many princiral farmer, as well as Bailey's Northumberland drill, and at Didale, and closebor?, they ha¹, e used Hanlord's drill lo.rs, or happers, which may be fastened to any plot_th-(Sun Curse.V. Instances va). More particulars of drilling will be given under the different varieties of crops.

Home-hooing is practized between rows of enbhages, potatoes, and other green crops set by hand; also, between rows of beam, and other crops, laid in by Balley's driU inadiane, and is pretty much practised at Lord bira's, and a little elsewhere. Hand-hoeing is applied to turnips, common or Swedish, sown broad cast; also, to prase, and to the finishing of other crops after horse-hooing, Colesced, or other green crops, sown broad cast, are also hand-hoed, if necessary.

Wreding, by hand, is applied to turnips and other green

FALLOWING.

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crops after hoeing, to pluck up nnd of chadlock, or otl; that ha. I the hoc; the same is *<i* and *ummer*, in wheat, barley, and other crops; but for thistles, as they cannot well bo handled, I have no commonly cut off with a spad, or sharp tool, thoi. by the by the root by weeding tongs, which has been dotic, but no: genetails a but in this case presention is better than care, and all v ceds should be extrepated by good culture in the futlov. or preparation; but if any occupe, it is not essure to prevent an abundant increase, by destroying their iterl, and pincking ip in time; the vellow flowered weed called chadlock, which comprehends and inclusics three separate and disinct weeds, viz. wild mustard, radials, and rape, will increase a hundred or a thrashald fold, if suffered to shed itheir seeds on the land; the corn mangold, corn chamomile, lake weeds, provincially willow weeds, which are common, upoi cool bestorned land, and partic !;uly chenopodium species, provincially fat hen, and wild the spinach, are all wonderful seed bearers, and will increase a thousand to one town, unless prevented by cultivation of weeding; the (thilaspi) shepie rd's purse species also increase wonderfully by seeda; chickweed and groundsell should no; be suffered to seed, though they indicate a good soil, or high culture; the former spreads both irom seeds and routs on finely pulverized land, the latter will fly all over the country if not extirpated in time : these and other weeds are so mjurious to all cultivated crops, that too much pains. cannot be bestowed in their extirpation.

SECT. H .- FALLOWING,

In Leicestershire, is but little practised, except for green crops, and in the few remaining common fields; but some

FALLOWING.

few instances remain of fullowing f-r wlieatj upon strong and cold land, where green crops cannot be grown to advantage; this is sometimes the case upon the Beaumatior, estate (Mr. Herrick's), also in the modelu enclosures of Queeniborough ; but in the latter, as well as in the vale of Beivoir, it is more common to failow for barley; but to a Leicestershire farmer, fallow and turnips are synonimous terms, implying a course of summer tillage for cleaning But this fallow, unless the hand be too stiff or. fool hund. strong, if it can be well cleaned in time, is most commonly sown with turnin, or if otherwise, sometimes stude over for wheat or barley; and it is not uncommon to see a field. part turnips, and part wheat after follow, as the great intention of a fallow is to pulverize the land, and destroy weeds. To effect these purposes, it should be properly managed; to which suit the load should always he ploughed in autumn, and furrows drawn and properly opened to take off the wet; it will then receive great benefit from winter from. When the land becomes dry in March, it should be cross ploughed. and harrowed down as fine as may be; it muy then by till spring seed time he finished, during which time many weeds will shoot forth; early to May it should be again wellploughed; this ploughing will destroy the words already. grown, and expose the root weeds, and by admitting and harrowing they may be forched out, and the land well pulverized : the manure should then he had on and spread, and the land, again plongies, will generally be ready to receive the aced of a green crop; if not, it should by for furl! or herrowing and ploughing. Dry weather is always the local for destroying cost weeds, and for hurrowing down the land, but showers best promote the growth of seedings, which are to be afterstands destroyed by further culture.

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ARCT.

SEUT. III .- COURSE OT CROPS.

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This favourite course of crops of the Leicestershire granier, breeder, or principal farmer, upon all mild, inodense, or friable hours, is a five tilth system, as follows : 1, outs, or wheat, or sometimes, but more rarely, barley ; 9, a green crop, turnips, Swedish, or caldages, or coleseed : 5, barley, with seeds, viz. red and white clover, trefoil, and ray-grass (and at Dishkey a few pounds of bit met have lately been added for experiment); and 4 and 5, pasture and clover mown : 1 believe this course will include ba! the tillage had of the county, or 160,000 acres.

No. 2. Upon light land the Norfolk system is sometimes adopted; this is the case upon the Bezumanor estate, at Lord Moira's, and elsewhere, but not widely extended; 1, wheat; 2, green crops; 3, hatley; 4, clover and grass seeds; suppose on this system 20,000 acres.

No. 3. A six shift system is adopted by many good managers, and this varies with circumstances, according to the nature, state, and condition of the land, and the judgment of the occupier. Mr. Astley, and others, sometimes take thus: 1, cats; 2, wheat; 3, turnipr; 4, barley and seeds, and then at grass 2 years.

Mr. Watkinson of Woodhouse, 1, wheat; 2, pease and colesced on the stubble; 3, turnips; 4, barley and seeds, and then at grass for 2 years.

Mr. Herrick's tenants at Beaumanor, are sometimes permitted to take, 1, wheat; 2, onls; 3, turnips; 4, barley and seeds, and then at grass 3 years.

At Dishley the cause is often and generally, 1, outs or wheat; 2 and 3, green crops, in which vetches are included; 4, barley with seeds, and then at grass 2 years.

At Lord Moira's, whose farming business is very ably

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COURSE OF CROPS.

 Image: second second

A\ Mr. Stone's, of Burrow, on strong land, 1, beans set by In, ad; 2, wheat; 3, green crops; 4, barley and seeds, and then grass 2 years.

At Queeniborough, 1, beams or pease; 2, wheat; 3, fallow, the land heing supposed too strong for 2 green crop; 4, barley and seeds, then grass 2 years.

TJ contract other variations in the new shift tillage, as 1, oati or beams, 2, fallow, 3, whente 4, barley and a out, and the second to terral to the fallow many, 1 think, be estimated to certain to the fallow many.

No. 4. A longer system, average suppose 8 years, is pi ctied by some at , outs 2, when a prost 3 years, or, sonic tin. crops, 2 years, 5 balley and seeds, and then at grass 5 years, or, dometimes at Olderalborrough, and then at grass 5 years, hud, 1, outs 5, beam, 5, when ; , green erops, or kllow; 5, balley and seeds, and then at grass 5 years, this longer system may be estimated to extend to 22000 attres.

No. 5. Remains of the common field system, as continued at Glenfield, Tilton, Walton; and the few remaining open fields; this originally a 2 shift system, (1, fallow; 2, wheat; 3, beau), may now be called a 4 shift, as barley

13.
coun. <IE OF CROPS.

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with .^c metiinen \$• wer amongst the wheat in the . makii 6 si , I, fallov other pulse; 5, barley or i
1, fallow; then onc-thir io tliird beam, or other pui

An anomalous system is precise i upin the new endosure of Awl world, under protonce of public line is all of this ancient waste (See Exercos traces). This is, 1, pare, and burn and line, for wheat; 2, wheat or other 5, onto repeated; 5, fallow or green crop, and the line repeated; 0, h is not seen. Upon the abjecting to this as an intering course, I was annotated, that it is necessary to reduce sid public lie soil in the double limbs restores it, and tijat her have the manure arising from the en particular yard, ready to return to the hand. But this course being merely temporary, will of course, in due tit¹e, natorally mix with some of the established and less extinue the state above traced.

RBCAPH CLATION OF COURSES OF CROPE.

No. 1. Five tilth System.

IstYenz. 0d Year. 5dYear. 4tbl.3tbYear. Acres. Oats, or Wheat, Gimen coup-Barley -Grass - Supposed to orBarley - Crass - Seatend to - 120,000

No. 2. Four tilth, or Norfolk System.

Turnip -Barley -Cliver -Winat -Suppored to extend to 20,000

No. 3. Six tilth System.

IntYeas Sil Year.	3d Year.	4th Teard	Sth.koth.Ye.	
Oats Wheat	Green crop	Barley.	Graca .	Sapponed
Wheat Onis		Day .		Lineyan or a
Ogte or o	And a state of the			V 600,000
Wheat Gerencrop	DA		ellos .	y
Beans		Onta or do.	illo,	
Do	Fallow.	103	Do.	(.do
Oats	Wheat	Do, or Oats	Da	Service Charles

Nei. 4. A longer System, average 8 Years.

 1st Ya 2d Year, Od Year, Sth Year, Sth Ye 6th, Table Sth Ye

 Oats

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 Wheat

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At Lord Maira's, 1807.

No. 5. Common Field System.

From

WHEAT.

From t) < flat a, which i	orrect as
the-mature of the case will aim 1, ay be <educed< td=""><td>the across</td></educed<>	the across
of the differentcrop grown in the county, after t	remiting
tliut upon the breaking up of this land, outs are	so much
HIGTE a favourite crop than wheat, that near 2 acr	es of the
former are grown for one of the latter: I shall	Itake it 5
acres of outs against 3 of wheat, and shall set th	ie barley
sown on turf, against the spring wheat sown after	turnips ;
Then the will be the second of the second se	TANK
Then the wij	03.000
in the second se	10.000
1 arrest and sut	-40,000
Oata «in hirf, or after wheat, or on strong lond	
tead of harley	30,000
Beaus 10,000 acres, pease und vetches 5,000	,00t>
Cretin crops, turnips, cabbages, colesced, po-	
tatocs, &c	40,000
Arabic laud, at or under clover or artificial	
gni	\$5,000
I ⁷ ;illow for wheat or barley	JOO

Acres 240,000

When

SECT. IV .- WHEAT.

I. Pitcher when the land and the land and the provide the provide the land and the

THEAT.

When wheat is grown after outs, henny, or other crop, the land is sometimes partially followed and ploughed 3 times. Mr. Rotherford, at Lord Moira's, was giving the bean stabilies a second ploughing, when I was there, the beginning of October, 1807, and meant to plough them a third time before sowing the wheat, which was meant to be put in by Cooxe's drill, before the ep6 of October.

In the common tiality, and malifere other instances, the land is fallowed for wheat (Saw Parnowron), and manured with muck or lime, which is, or should be, laid on in nummer before the third ploughing, and the land should receive one or more ploughings after. The sumon for nowing minimis wheat is October, or a little before or after; for spring wheat generally the month of April4 this is nown after the eating off of terrifys, or other green crepat one or more ploughings.

On tay ground whent is soon broad exit, two busides and a half per scree, and well burrowed in, but on pulverir d land offen siriliest. At Lord Moint's, Mr. Rutherford puts it in upon bean stubble well worked, with Cooke's drift, 2 hushels per scree, in Grown at 10 mebers, or 5 at 10 mebers; the sour, the red strew lamans. Spring wheat has also been triad here, nown in April, and answers well; I eximinest some thrashing it a horn, it is a white car, a fittle bearded, and red grain (*traticans maticant*). I understand it wills in the instrict about 6d, per healed lawer than good instant when. Mr. Rotherford as used it to pay full as well us to quarters pite scree, and he recknied it to pay full as well us to quarters pite scree, and he recknied it to pay full as well us to quarters pite scree, and he recknied it to pay full as well us to quarters pite scree, and he recknied it to pay full as well us to quarters pite scree, and he recknied it to pay full as well us to quarters pite scree, and he recknied it to pay full as well us to quarters pite scree, and the recknied it to pay full as well us to quarters pite scree, and the recknied it to pay full as well us to quarters pite scree, and the recknied it to pay full as well us to quarters pite scree, and the recknied it to pay full as well us to quarters pite scree, and the recknied it to pay full as well us to quarters pite scree, and the recknied it to pay full as well us to quarters pite scree, and the recknied in science with it universally their with barley, the sume standbarter with it universally their with barley to the young plants

WILLAT.

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of clover, &c.; it is sown after a green crop instead of.

To prevent the sount in wheat, steeping in brine, or swimming the sould in a tub of brine, and shumming aff whatever swine; is practised; or putting down the sould in a higp, and well astimating it, by pouring on brine or urine, and afterwards well drying it with quick line is also practised, and the result satisfactory : the former method, dertainly the best, were it not that the brine. If fouled bythe anist dust, is not fit for re-using. I suspect that this preparation will interfere with the practice of drilling, unless the seed to afterwards suread this for some time on a floor, when I believe is will pass the halles of the drill machine; if the seed to drilled or some without this preparation, care should be taken that it is from a round stock, or sort perfectly free from the least tunt of shout, when I believe the risk of producing sumt will be very small on well prepared bard.

Dibbling of which is not much practical; a few years back, the late Mr. Wilkes mide an experiment upon Ashby Wolds, upon between 30 and 40 evers, of paring and burning for potators, the using were last mersors, and the hard plouched an annous rulgs for potatom (Sup Parations), and paring and burning; the potators were got up by forting along the anithle of the rulges only, and the ridges preserved; they were afterwards collect down by deriving a heavy roller along them lengthways, and dibbled with when without furnise village. The respectment succeeded perfectly well as to this physics, but the wheat fulled, the crop not exceeding 7 or 8 bushels per acte. Mr. Johnson, of the Wolds, thinks the clads were not sufficiently physics for wheat, through the wheat and feets soil had forced a good crop of pointers : 1 are pare of this wheat after coming up. October, 1501, and it then

WHEAT

looked promising, but failed the following summer. I heard of no other instance of dibbling wheat in the county.

Water forrowing is of course practiced, between the ridges of all wot land sown with wheat, as well as cross gotters made, to clear such forrows of water, and discharge it into the ditches. This boing necessary upon all wet land not well under-drained.

Horing of whent is only practised where it is laid in by the dail, and is either done by hand, or by Coole's scantiers. Feeding it off by sheep is sometimes done in the month of March, when it is got forward, and is supposed to do it no injury if enter before April, and is of some value to the sheep. The resping is universally done with a sickle; the corn bound in sheaves, and set up in shocks, and when sufficiently manoned carried to the harn or stack; the stacks generally placed on rick-stools to keep out vermin.

The distempers to which wheat is principally subject, are the millew and smut, and I heard of no other in this county, nor any particular complaint of them this season, 1807, the wheat being kindly, and likely to be productive. The mildew is doubtless from the stinosiblero, the cause hasmildew is doubtless from the stinosiblero, the cause has mildew is doubtless from the stinosiblero, the cause has mildew is doubtless from the stinosiblero, the cause has mildew is doubtless from the stinosiblero, the cause has mildew is doubtless from the stinosiblero. I believe, beginning at the wrong ends, such fungases, if they exist, being the effect and not the cause of the disease. I four the prevention and care are beyond iniman effort, and behave nothing can be done but good preparation and sowing in due scason; the rest must be left to the seasons and their director.

The smut may be sufficiently prevented by choosing sound clean seed, and by the usual process of swimming or washing in bruse or urine, or both, and drying with lime or mines : I never heard of, or knew the smut in any great

degree

degree injurious, but in cases where that process had been neglected, nor, even then unless there was some taint of amout in the seed.

Burnt, or black ears, do no injury to the rest of the crop, but are mercly the loss of so minny cars; but I think corn in any more then common degree subject to them, should not be sown, as the cril has a tendency to increase, and the same of hurley.

The process of stacking wheat is known to every good labource. Thrashing is done by the flar, unless in the few cases where thrashing mills are crected, and which are likely to increase.

Price of Corn in Leicenter Market, Oct. 3, 1827.

William Course	34 qts. Customary		M. Average		se []	Win, B.		
Wheat bom		23 10	91		60	0	100	
Ree		3 19						
Barley from				- 0	02	5		
tia		2 6	112	1 1	0.5	19	6	
Onts from		1 6						
In In		1 17	6.5		O.	9		
Dealls from			170	10	na.			
			0.2				.0	
Hoy Pene		0 0					0	
Ostmal							The state	
					1000	A.0.2		

Joseph Smith, Corn Inspector.

Two-

City of Leivester. Humilred of Frankland. The Anice of Bread, set the 22d day of Sept. 1807, to continue 14 days.

The penny loaf, wheaten, to weigh - 0 6 9

WHEAT.	10
Two-peous losf, wheaten, to weigh Ditto household	- 013 2
Ditto household Ditto household Twelve-penny loaf, wheaten, to weigh Ditto household Eightenn penny loaf, wheaten, to weigh Ditto household	2 7 0 3 1 8 4 14 13 6 3 0 - 7 5 3
J. S.	9 1 14 Brown, Baranhy,
Hundred of GortreeThe Assize of B Hundred of Garcrees in the county of I	read for the eicenter.
The six-penny losf, whenten, is to weigh The six-penny losf, household The twelve-penny losf, whenten The twelve-penny losf, whenten	L ar, m, 2 2 14 2 14 2 4 5 12 5 12 4
Set by us, two of his M gosty's justices of the for the said hundred, the 20th day of Sept., continue in force for by days, from Saturday	e peace in and 1807, and to nest.
E. Gri C. J. 1	
Handred of GuthlertonAddies of Bre Hundred of Guthlestow: to take place the 12th of Oct. to be in force with and us for the said Hundred.	ad for the on Monatay ther Apiero a
The penny loaf, wheaten, to would - Ditto home-bold ditto	A et an 01 5 11 0 7 6 0 11 8
Ditto household titto	0 15 1

WHEAT.

The air-pouny loaf, wheaten, ditto	1	-	2	1
Ditto household ditto		2	13	3
The ovelve-penny losi, whenen, ditto-		4	4	2
Ditto household ditto	-		10	6
The eighteen-penny louf, wheaten, ditte	1	6	6	11
Ditto household ditto			7	

C. Champers.

Every wheaten lost is to be marked with a large roman W. and every household losf with a large roman H. on pain of for/eiting not more than 26s, nor ters than 5s. for every lost.

The wheat harvest is in August and the beginning of September: the stubbles of wheat are pretty generally mown, backed, or harvoused off, and carried as the yard for litter.

The average produce of wheat in this county may, I suppase, be stated at S quarters and a half, or St statuto bushels per age: the wall calibrated land produces proballing 4 quarters, the common fields and inferior culture less than S quarters, overage as above: deduct the seed, and suppose 25 bushels per area bett produce, at 601b. to the bashel, this gives 1000 fb, weight of wheat per across the growth has been before estimated at 25,000 seress if we allow this weight of wheat per day to each individual, from the above data, the growth of the county will supply links more than 100,000 persons, but the population of the county is non- 000,000; the county therefore supplies bread for only about four-fifths of site unbabitants, leaving rearly one-lifth, or about 25,000 persons unprovided for, to be supplied from chembern

Adoitions to the article wheat: transplanting of a beat recommended.- A gentleman of Cambridge sowed some wheat, June 2d, and on August 5th, one plant was taken

所以正法王

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up and separated into eighteen parts, and re-planted ; those plants were again mach up and re-planted from September 15 to October 15, and were then 67 plants; they were again taken up and divided in March and April ; and finally produced 500 plants, these produced 01,100 cars, and three peeks and three-quarters of coro, weighing of 11, 7 or, and estimated at 575,840 grains, — Parts, Taxas accuro NSN 58.

I know from my own experience, that wheat transplanted in April, will ripen well with the other group, and be equally productive. Dr. Durwitt says, wheat may be solve in a gorden for nursity), and one acre will produce acts for our hundred error, at once inches a moder : doe is being too sumpline, though I thick one acre may supply twenty; and this may answer when and where plenty of hands can be built at reasonable rites. He recommends apring rolling of wheat, to consolidate the ground and queeze catterpillars; says, wet reasons in wheat bloosons ing time, may wash may the auther dust; and prevent for andation, and he believes may occasion the supply operate as prelieptoing cutters : to present die smith, he advices, for mentation, and he believes that will write most efficiencies, in the patheness is be used in brace that y advices in a slightly observes : to present die smith, he advices, for many the scale in brace that will write most efficiencies, in the state is prime when by made it to this water, and the state is prime when by adding public to this water, and the state is provided by adding public to the water, and to day it with quick lines.

The following, too, is given as a certain provertative of unit, from differencies y respectable authorities (Boil 136, of areanic new failure of water, and moreover it to 22, millions, put the second wheat into it throught a visible, and skins off whatever stains ; let it slowp six or eight house, will dry as usual wills quick lime.

filo,000 grains of com.

SHOT. V. MYR.

VERY little receive grown in this county, except what is sown for early spring pusture for sheep; occasionally a or hadge side, may be sown, to supply seed on purpose; or, sometimes a patch of light little or none need here is the manufacture of

> for early spring slicep pasture, is sown upon harley, or pen statible, so somn as the crop is which will be in August 4 the rye is grazed by following April, and the land immediately r turnips, or other green crop.

SECT. VI. BARLEY.

atest part of the barley is souri after green to or more ploughings; two should always he wilde, us it is much more kindly for the seeds, at harrowings between the ploughings, and centry, to break clods and pulserize the land.

mon title, prencipal utlage is, in this case, given for the green crop, which is the same is that given for a follow-Size Fatteowayo. Barley is also sown after a whole years failow, upon land too barsh, strong, or wer, to cat off green crops to advantage : this gives an opportunity of perfectly cleaning the land before bying to grain, and the loss by the follow is soon compensated by a full harley crop, and an excellent clean perture, and although barley is generally implement to be adapted only to light hard, where green crops muy be grown, yet. Mr. King analysis

BARLEY.

me, that the greatest part of the vale of Belsonr (although strong hind) will hear harley, and in great crops when close fallowed, though undit for turning.

Barley is also sometimes grown after fallow wheat, at Queeniborough, and clowbere, but in as great proportion to this is the old fashioned way, and ought to be ababalied, as birley after wheat is too exhausting for any had to be arand grave well after. When this is puscissed, the wheat atabble is purfullowed before Christines, cross ploughed and higrowed down the March following, and the land ploughed up and nown in April. Barley is also grown in a small proportion upon this hand after one ploughing, upon light loain, the land being in fine title and in good hearts: I suppose about as much barley may be some on this family as charden in pring wheat after green reops r the barley stubble, in this case, is nown with galaxeed for entry there needs and the next summer more fullows

The mannee for baries is always hild on the follow, or for the groots crop; the stability of sheep on the groots crop and is in ever-licenselocomy for the barley, and goneruly forces a full cropt of

The grant seeds are nimest universally soon with burless the best, mannie for g or green crop, or follow, is limit, from four to six tooy me next, to which may be added, muck, if it can be not a protect built time, if the land has not before beer used to it too much, is so excellent a function, in torond, the grass sends not producing a good postner, that is ought, to be preferred in this case. A shock of sheep, its granting the postner, will monathy improve the land, and in due more it will count up again for filling, much, and in due more it will count up again for filling,

Cooke's drift is uncetterably used for harley, by many of the principal occupiers, though I appose much the greatest proportion of land is still sown broad cast. Az

hader

BARLEY.

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harley ground is generally in fine fifth, the dull can be used to advantage; and 1 suppose more barley is drilled than all other crops put together. At Lord Moira's, Mr. Butherford uses Cooke's drill for harley; he reports that he lays in first two hushels of seed par acre, whereas from three to four bushels are some bread cast, and that he gets back six quarters per atre; this is twenty-four for one; a great increase! The birley is drilled at twelve inches, five rows at a time; after the rows appear, the scattfiers are applied by means of the same deal uncline, to loosen the soil, and most up my weeds that may be in their way: the clover, and other weeds, are then sown, and a pair of light harrows ran over the hard without inpuring the barley; the whole is then rolled level, and re mans till harvest.

Dishley. Mr. How show an thinks the practice is rather guining ground, but that till a clean cultivation becomes more extended, it is in vain to explicit its general adoption.

Mr. Watkinson; of Woodboord has doed Croke's drill considerably fits barley, but soggitunce some part of a piece broad east for comparison, and can searcely perceive a difference; but says, if he may senture an optimon, it would be in favour of the drill jibe thicks the strays in generally stronger, and the grain having bodied; but booing the barley is omitted, because it is there with the grass seeds, and after the drill, the grass so grave officed to be light harrowed in, and the hand is after south to alwantage, the land mint be highly prepared; there it is very probable, that as much or more advantage is derived from the preparatory ullage, that first the methanical process of faying in the socie. The time of souring barley is very provably the month of April, and the horsest in August and early in September; the sourt souri is very generally

BARLEY.

die early long ear (*kordzum distichum*); this sort ripening in good time, and generally producing a good snaple : the quantity of need milled is two to the e-bushels, sown broad that three to four bushels per acro, saving by drilling one bushel. Respecting the harvesting, barley is always mown with a reythe, and the swathes being turned over after the top is well dired, will, if the weather be favourable, some be ready to put in confis, and carry to the stack or barry, but in rainy seasons the business in protracted; if requires many turnings, openings, and sprendings; the former is harasied, his expenses increased, and the groun highned, and sometimes spotled for milting : a wet harvest may therefore be considered as a public calomity.

Produce.—The produce of harley is empore. Mea-Ratherford, at Lord Moira's, sinter his average at six quarters per anno, a quantity often produced elsewhere by good management on good land, and a great deal more has been known, to been ar eight quarters in particular instances; but, I supply is, three or four quarters are also very common, and cannot put the average so high as five quarters, and helbere it dues not stored four quarters and a hulf per nove, over and shove the seed sorm.

As barley in the favor rite crop of grain of the Learnershine farmer, from one properly successing from even and bring hindly to the meccaning grains needs for posture, a much greater bre the state of this, then of a synthese grain or pulse; and a contex out by the estimate made on a courses of crops, that the growth of barbey in this county extends to 40,000 acres of land; this, at four and a ball quarters per gare, makes the summal produce 190,000 guarters.

If we suppose one-third of the whole is light, tail with, or inferior burley, given to live stock, there icm in 1903/800 quarters for the brewery; the consumption of the

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county in mail liquor, at four hishels per local, would be (5,000 quarters; to this add 10,000 quarters for the supply of itus and travellars, leaves 40,000 quarters as a surplus of barley for the supply of other counties; and there is no doubt but this county has a countderable surplus of barley, for the supply of the Burton-supon Trent brewery, as well as of that carried on within itself : there are two breweries upon a large scale carried on at Loughborough.

The sort of barks almost universally sound is the early long car, which has been found generally to yield best, and to operate quicker, both in the mult-house and cellar, and on those secounts is generally preferred, both by the matter and brewer. The spirit barley (herdeum concrition) was formerly more soon than at present, was revioued more bardy, and less finite to be kild by min, and was thought by some to make the best become here.

Barley is differentially moven with a scythe, and when the awathes are dry on the top they see tarned over, and when a dry and well accounted it is not may works, and the pround clean taked, and then carried in ungroup to the bara or stack. The harley harvest is at the same time with that of wheat, August, and the beginning of September.

about the fold-yard, or in critis my thit ploting for them to pick at, but they are not confined to pic on it entirely, not is it supposed to afford much nutriment, or that cattle would thrive on it along (they have generally the addition of a feet turnips, or a little picking at genes : the great object being to tread it into manure, and mix it with a sufficient quantity of their ding and unit, to bring on a proper fermentation for that purpose.

No bread is made of barley in Leicestershire, I believe

not

not under any circumstances ; its sole are is in the brewery, and in feeding the different kinds of live stock.

PROT. VIL-OATS.

A CREAT many cuts are grown in this county, it holds, I believe, the second favourite grain crop, and being a horse county there is a great domand for outs: the array also is regioned more valuable than any other; the culture also is regioned more valuable than any other; the per acre upon the retrage than any other produce large, being more per acre upon the retrage than any other produce

Gats are almost wholly grown the first mophapor torf land; the tillage, therefore, conditis only of once plongle ing, solving the and based mast, and well harrowing it in, afterwards rolling the hard; no manure is used. They are seldent drilled, have, in solvnard formed grain in the mode of sowing. The time of sowing is March, or the beginning of April; the sorts generally or wholly a white out, Poland, Datch, or what is called the potator out; I hav no inflate, of red or black ones, and bilieve they me seldent, if at all, grown. It is the enstant here in som tham protty thick, ship ; seven lighter's per nere. They are welled by harp are bloc time, if any weeds arise; that being of quick gate in and generally seven on the land, are little subject to see 0, on hard in any thing the goad sulture.

Outs are in a few mataneses soom after fallow whent, on cold insit, and also after a press croppinstend of harley, on similar land; in other case, once ploughing is generally shought sufficient. At his case the opt is generally first ripe early in August; if a full coop and long in the street, they merofice couped with a single, beind and ret up in intermor shocks like wheat; semiciliars movie with a styling. and afterwards gathered and bound in sheaves; and at other times harvested loose, after turning and cocking in the number of basicy. The produce of outs is very considerable. Mr. Stone, of Barrow, futurmed me, that he has grown 11 quarters per acro, a piece through, maning a piece of mederately strong land which I had seen; but I believe as little as five, four, and three quarters per acre are often grown; and as a good deal of aced is sown. I suppose the average produme of the county does not exceed five quarters per acre, over and above the seed lown.

The straw is given to cattle as folder, who can the chaffy awn, and clouder part of the straw near it pretty clean, but leave the stally lower end of the straw : the whole is nonetimes cut together in a straw-centing machine unthrashed ; grain and straw is food for horses, but a faile coin required in addition : outs are principally convolved by horses, of v aich a great many are kept and bred in the county, after releating some of the best samples for unking oxtinent; floogh no cat brest is command, in this county, yet there is a demnal in every private family for estimat to thicken grad, pointing, Sec. 1 suppose for these purposes the consumption of each family, on the average, may be put at two bushess of outs per smalles and it is identified a very sholesome and matridom.

The county contains by the Papi a Act about 28,000 families: the domestic contamptio which, annually, by the above estimate, will be 7000 quarters, or the produce of 1400 acres.

The whole growth of the county under courses of crops is estimated at 30,000 acres; the produce of which, at five quarters per acre, is 150,000 quarters—SEE Con-SUMPTION OF GATS, UNDER THE AUTICLE, HORSES. I reppose the growth of outs in the county is not greater than its commonption.

SECT.

SECT. VIII .- PEASE.

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This growth of peace in the county is not considerable; by much the least of any grain or pulse: I suppose the whole growth, gardens and gardeners included, does not exceed 0000 acres. At Queenboxungh, and in the vale of Balvoir, peace are sown upon one ploughing of a clover hig on thirf land; and as the drill does not do well on this land, and there is no dibbling of peace in practice here, they are consequently sown broad cast, and harrowed in; and in the common fields they are a little sown in the same courte, with and instead of beams:

A small proportion of peace are sown at Dishley, and with Cooke's duil, if it be broken hand. Mr. Watkmaon, of Woodhiouse, also sows peake, and somatimes with Cooke's duil; he prefers peake, on account of their coming off the land carly, and giving time for the growth of stubble colenced, which is eaten off in the spring early, of followed by turnips. When Cooke's duil is used for "ne, every other row is omitted, and three only sown of a time, at about 18 inches distance; and when at a woper growth they are hand-hoed. No manue is used "givinely for peaker; they are sown early in the spring, "erally in March : the sorts, a white and a blue pea for domestic use, and a gray pea for hogs. Podding for the market is addom or never attended to by farmers, that bring here the uppropriate butmess of professional gardeners : I should reckoo the produce from three to five spiniture, average four quarters per acre. Horars are found or the straw, but it is apt to give them the gripes, and therefore unwholesome for them.

The county of Leicester was formerly much more famous for beins than at present. About the middle of the last century, when one-half of the county was in the common field culture, it is very probable that coe-half of the hand of the common field purshes was in the three shift system of fallow, when, beaus; this would give 40,000 acces of heavy, the same quantity of wheat, and an equal quantity of fallow, supposing the practicable hand of the county, as stated in Chap, i, to be 430,000 acces 5 hat it appears from the rotation of crops, that the beams now grown in the county, do not exceed 10,000 acres.

In all the ancient necounts of the county, beam are named as one of its staple productions, but I do not thick they are at all finitens for them at present; indeed, I sook the liberty of telling some respectable farmers, that they had but the art of growing them, and is is very probable, that the old system of fallow boary third year, with the manner of the farm returned upon the fallow, kept the had full as knowly for bears as the present system:

The soil most and heat adepted for beaus, is well known to be a mellow deep form, with which Leicesterdairs abounds. They are now grown as most in the few remaining open fields, after fallow which, other by plonghing up the stability, sewing the beaus brond cast, and harrowing them in ; or, by arsing the beaus on the wheat stability, and plonghing doins in ; in either case, one plonghing only is necessary, and no harrowing in the latter. Rolling in, I believe, never applied to beau ground, and though they do heat on rich land, they are soldow or have manned for purposely.

HIS

Beans can be drilled in by a unching only of loose ground. Mr. Rutherford, at Lord Moira's, afte, outs gaves the out stubble three ploughings, and drills in begins by Bailey's drill, in rows at two feet three inches; thes? are first horse-hoed, and afterwards well cleaned by hand; produce four quarters per acre generally, and he expects they will not be less this year, 1807, which has been peculiarly oud for beans. They were harvested in September, and the ground working for wheat to be sown by Cooke's drill.

Mr. Stone (Barrow) and 20 acres of heans dibbled in by hand, 1807, at the expense of 10% Gd. per nore : the crop indifferent, but the land included to be sown with

Alr. Stone's bedra were tet upon turf land once

At Queenborough, My. Grahams informed me, that beaus are sometimes set by hand, after one ploughing of turf or clover lay, in which, the asving of seeil is supposed to pay the extra labour, two to three bushels only being set, or three to four bushels sown broad cast ; the hushel 34 quarts, but he supposes on advantage in the crop-I suppose the principal advantage in drilling, or dibbling, consists in the opportunity it gives of hoeing, and thereby cleaning the crop of weeds, and moulding up the roots of the plant; without which, the intent of those operations is

At Dishley, beans have been dealled in by one of Hanford's hoppers, attached to a double farrow plough, dmpping a row in every other furrow, and ploughing them in; this gives an opportunity of hand-hoeing and moulding up at pleasure by hand, but was merely meant as an expei ment, as few beaus are regularly grown there.

I suppose that at present more than one-half of the

beaus

DEANS,

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and a ploughed, ami which having him some years is hable other ploughed, ami which having him some years is hable of arow up the percential grasses with great havoring or afber sudden spring showers and warm weather : this has been the case this sensor 1807, for I found the beans in August very generally choaled up with grass and weeds, so as not to be half a crop ; in many places they were mowing them green, which is never the case here when they are worth standing till sipe, and is merely done to clear the ground of rubbish. I heard some farmers observe they should not these above as or eight backeds persere, which leastribute wholly to their had culture. In the vale of Evenham, Wovcestershire, the beam crop is the year at hast double to theirs, merely from superior enture.

The barsesting of beins is in September, the produce this year from one quarter per arres to four, average but little above two quarters per arrest general average said to be four quarters per acres, the deficiency will consequently make beam source and dear in this grounds; the straw is of no use but to not an mannes it is linedly fit for liter.

HAVE long been cultivated in this county, but not open a very considerable only, the extent and excellence of the natural postness rendering a large proportion of them the lens necessary; they are universally allowed to be excellent food for horses, and in point of mutriment, when green, are believed to be much superior to green clover.

The principal object in view in their growth, is for cutting grown and carrying to the stabiles for Borses, who do well with them in the spring months, with the addition of a fittle corn, and thus reserve the pastures for other stock.

VETCHES.

and are always in readiness for their work; as the county abounds in mowing meadows, no account is made of making them into hay, and that is very oddom the case; a few are saved for seed, perhaps sufficient for the quantity sown in the county.

Tin y are generally active after ploying up the stability of some crop, most commonly wheat or out stability at 1) ladey they have been often drilled with Cooke's drill ; to-stime of sowing is October, but sometimes sooner, and a little later, seldom or here any sown in the spriii] are begun to introv as early in May as they are fit, and continued till going out of blossom in July, when, if any remain, I bey are left for seed ; they are seldom here mown more than once. An acre of good wetches will last six horses a month, and they are in perfection for this use about two months, consequently, two acres is sufficient for six horses. In the autumn of 1807, vetches for sawing were sold here at from fifteen shillings to a gomen per bushel; they are nown two bushels or more per acre.

At Lord Moira's, a few vetches are grown for horses, bit 1ay and corn given principally. Mr. Ratherford, tin: farming bailiff, informed me, that he had grazed off wit!s sheep four acres of vetches in May, and planted potatoes after with the plough June 1, without muck, and that the potatoes had been a good crop.

Verches, where the land is clean, are sometimes succeeded by turnips as a main crop, but more generally by turnips or cole for spring sheep pasture, to be followed by a green crop, and are soldom succeeded by wheat.

Upon a supposition that a horse cats 11 cwt. of hay per week, that is, six horses cot 0 cwt. per week, or 56 cst. per month; this has is equal to one acre of vetches; and if hay be worth five pounds per ton, vetches as a green crop, are worth nine pounds per sere, and so in

proportion :

!! V IT'S.

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of most vail >nadc into *hi*

XI.—BUC AT

Is sown but on a ver I scale ^d, the land i 10 good a staple for this inferior i artic! of the ture udup^d to light c winclo weak for turnips, v i crop of it, ploughed on, mri matter r be Oi ud% to amelion soil. Th< inet with of i county was at Lord M. it is of 4ii by art land corners of turnips or was y by the p<-

SECTI MIL .- TURNIPS, AND SUDDISH TURNIPS,

exactly up online same principle, in the same course, : with the same culture; the only difference being in pr. it of time, in which the Swedish take the least, being sown a infle earlier. These crops are cultivated to a great extent in this county, where the out and wheat crops, being very generally

TURNIPS,

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contrainty grown upon one **p! upped of a turf**? arc \wedge **to** uerally succeeded \triangleright y a giant to be the second se

1. Soil—^fi • y are grown upon all soils that are not too strong and hisky; but in general such soils here may be denominated mild framble loams, more or less triacions, some inclining to sand, others to clay; on the former class turn; ps can be grown and used to the greatest advantage; till: latter are more adapted to cablages.

2. Tillage, Manure, Sc.-The viceat or out stubble is plo-aghed up before winter, cross-ploughed and harrowed down in Murch, and so soon as the spring seed true is over, a third ploughing is given in May; sometimes stulibit? cole, or early turnips, are sown upon the stubble ploughed immediately after harvest, and the produce caten off in April; in that case, the second ploughing is only given in May, and the hand may be equally forward and ameliorated from the effects of the winter cropt the land is now harrowed down level, and the manure carried on, which is town or farm-yard muck, properly reduced by fermentation, ten or twelve cart louds, neur a cubic yard each in its loose state, laid on per acre, or from one to two waggon loads of time per acre, each load from two to three tons, or sometimes both; the land has generally two more ploughings, and the rowing of Swedish intraips commences the end of May, and continues through the whole month of June. The common turnip, of all the known varieties, is sown through the month of July. my tours through the county in 1807. I estimate, that between Leicester and Loughborough, and in many other Swedish turnips are sown for one acre of the continuous ihro

TURN1P8.

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Mr. Honeyborne informed me at Dishley, (list they most the Swedien turnip upon all the semult they i an get ready to sow before the middle of July, and commion ttirnips upon the remainder ; their proportion is iibout I wo acres of the former to one of the latter; they are at present all sown broadcast; have tried various modes oF drilling, and particularly billes a stemp in the second horse hoeing; but times much much id the crop thereby **diui** d illitig turni] , more labour is necessary, as by be time the drill machine can be put in motion, the crop true be sown the usual way; and Mr. Honeyborne being a good deal engaged at that season in the ram business, and generally just then making his annual excursion to Ireland, is obliged to leave the turnup-sowing to servants, or believes, it' 1c could attend to it himself, he should make more comparative experiments, by sowing part of his crop wah die

Upon Mr. Stone's sheep facos, at Barrow, are many acres of Swedish turnips, cabbages, and cole, both summer and stubble sown, but no common turnips. The Swedish here are sown broadcast, and in general throughckit the county turnips are sown broadcast, but with a few exceptions.

At Lord Moin's, the whole crop is diffied, both commoi and Swedish, upon Balley's writerr, the ground is well worked, harrowed down level and lined, and the ime well harrowed in; and when sufficiently cleaned and pulverized, and the sowing second, at above, being arrived, it is stricten into one boat ridges; the mark-cart follows, and mark is trailed along the hollows, between the ridges a plough i flows the nucle-cart, and targs a furrow each way upon the mark the doil-machine is then applied, preceded by a roller, which presses down two

radges.

TURNITS

ridges, and the machine deposits a row of turnip seed along the middle of each ridge, just over the muck, which are from two foot to two foot three mickes asunder, from tut dile to middle ; all the operations should go on at once that ific seed may be drilled upon the fresh soil, and hence just over the manure, a quick vegetation takes place, and with this management the crop scarcely ever fails. About 1* 11), of common, and two pounds of Swedish turmpseed, is used per acre, which is about the quantity generully sown broadcast: the rows are horse-hoed, and occasionally the splitting horse-hoe is applied, which lowers the ridger by besteiding the plants. SEE IMPLEMENTS, CHAP. V. The plants are thinned in the rows by hand-hoeing, which goes off light, as the business of cleaning the crop is much facilitated by the hoc-plough ; the crop is also hand-weeded if tweeways

That more skill, ingenuity, and system, are thus displayed than in common broadcast sowing cannot be denied, and near 30 acres are manually thus managed; and Mr. Rutherford, the farm baileff, intends to persist in this method, and when the workman are used to it the work goes on as regularly and with as fittle difficulty as the common method; but I am not sure that any advantage attends it, or that the crops thus cultivated, and which were shew a to me, are any better than the average crops of the county; but the twinips are generally well managed, and twice bood and hand weeded, if necessary; first boeing, 5st per acre, and being second horing, 2st 6d, to 5z, and the horing well understood.

When the weather is too wet to go on with memohocing generally, Mr. Marshall properly advises, romen than let the workmen sund still, to let them go or the field, and this the clusters, if such there he, and they will have less teachile with them atterwords:

TURNIPS.

, ig troughs, for turnip ee * id, iiire but 01 ; inbut 01 Uavo been used in Leicentenble.

The | mean in the choixi find *

It is well known that turnips, both the common and Swedish kinds, are a very touder and cannoty plant, in the early stages of their growth, liable to be preyed upon and destroyed by myrinds of insects, almost too small for observation; or to be injured by aukindly seasons, excess of either drought or moisture being alike pernicions to them, so that they are very uncertain of coming to a crop, and it requires the best managed cultivation to give them a fair chance of success; it is certainly the best maingement to sow them every day upon the fresh soil after the plough, by which means a quick vegetation takes place; and some have spurted the seed, by soaking it hesfore sowing, to promote this object; which method Dr. Darwin advises more attention to. The land should be

finely ;

TURNIPS.

finely julyerized and well communed to push their growth, as when they get into the second or rough leaf they are genjrall) considered to be out of danger.

The insects by which turning are proved upon, and injured or destroyed, have engaged the attention of the oune curious farmers. Mr. Marshall, who appears to be accurate as a naturalist, has stated the misclust to be done by different opecies of insects; It the turnip beetle (chrysounda neurorum). This is, I believe, the most common. It has wings two, covered by two shells, colour dark chocolate, with a yellow has on each shell; legs an, black, 2 hind ones thick, slippers, fly when much discorbed, and are soon out of sight, length one-half a line, or onetwentieth of an meb (Berkenhout); length of the body and hi*ad one-twelfth to one-tenth of an inch, and breadth about half its length (Marshall).

2. The turnip alphis (aphis brassica) in its minuteals state extremely munite, fifty or more branch one pair of seedling leaves of a young turnip-plant; in its fly-state with four wings, two long and two short, body black, size of a gram of mastard-seed, extremely prolific, 'ten concrations produced in one senson, and such anteressive grammation beginning to breed at ten or twelve days old; first generations oviparous, hatched by the sun; the successing enes, except the last, visiparous, and fifty, on an average, produced at a time; so that the produce of a single fly is a sensor is $50\pm30\pm50$ to the tenth power, which amounts to countless millions. Dr: Darwin believes this species to be so wonderful in their increase, that, from their indicates numhers, they may, in process of time, destroy the vegetable world.

S. Turnip tenthredo. I believe the teathredo rustica of Linnans, less frequent on turnips than the former, conimon on willows; and when they increase beyond the usual

TURSIPS.

numbers, to turn mitted on turni] liar of iliis fly in the sum*-(I Outs After h< ther they attai turnip plai u. |>ei I the •t liiinlly (l; ; tilt tile nnji crop had ap

turnip crop. bt-rollii turnip crop. bt-rollii turnip crop. ami dcturnip in ilio tlay-tii

and'Dr. Withering n and plants with growing pl

Dr. Darwin is of opinion, or at least thinks it probable, that if infusions were made in hot water, or for a longer time in cold water, of those leaves which no insects devefur, us of wahaut, haurel, fox-glove, hendane, hounds to ragwort, or tobacco, and were sprinkled on the ground just after the young plants spring up, it might prevent, or destroy insects, without injuring the crop; this, however, can be practiced but on a small scale.

Ducks have been employed in large droves, and with success, in devouring the tenthredo enterpillar; they should be pera up nil ingbt, and driven early in the morning fasting into the midst of the turnip field, when they will set to work, and fill their craws as full as they will hold; this should

TURNIPS.

should be repeated daily till the field is cleared. They will also decome slags and worms; but as the number kept mat t of course be limited, their use, in this respect, is necessarile confined to a moderate compass.

This following memorial providing his depredations of the on turnips has been practiced with success in another comity, and is already before the Board; but as the importance of the achieve is such that it cannot be too generally known, or too often repeated, I shall beg leave to insert it in this place, in hopes that its efficiety may be fully accertained; it is principally directed to the turnip beetle before described.

As prevention is better than cure, the process begins with the following propagation of the section and once of floui of an ry all ever j 111116 A' It! twenty four hours before sowing ; sow two quarts, or four pounds of seed to an acre regularly and well, and so as to cover the ground all over without vacancies; then look over the ground once or twice a day for the fly, if with a nucroscope the better. If the fly be discovered immedinkely harrow, if not harrow in time to than the crop, and cross harrow till thin enough for hocing. If the fly comes or continues, then sow eight bushels per acre of siry lime. or dry aited fine ashest and at all events hoe in time, and repeat the hocing it necessary; the sowing of lime or ashershould be done carly in the morning, or late in the evening when the dew is fallen, as it then better adheres to the leases; a crop ihu-i managed has never been known to fail; bin the author of it says, if people will not be at the trouble they must take their chance. He expects, and I think is entitled to some public remuneration, if the remody should be proved never failing. It is, very probable that soot, as a top-dressing, might answer equally well with lime or sahes:

TURNIPS.

The author of the method observe if that the fly is not feed of being often disturbed; and thinks tin various operations of harrowing and hoeing have a tendency to drive it, if the smell of the sulphur should not present its ippearance; but at all events the top dressing, after it having been frequently disturbed, will expel it from the field. This remedy is given with great confidence, and its efficacy well attested.

The hocing of turnips is here well understood and mamaged. Mr. Marshall says, the first turnip hoe-ers that appeared in this county were sent by the Marquis Townsend, from Norfoll, to the neighbourhood of Tamworth; it is now understood by every good labourer.

With regard to the mode of communition, they are varions; some are fed on the land by hurdling sheen; and where the ground is not dry enough for that method, they are drawn or carried off to grass-land, and a small proportic:, are drawn off to stalls. The effects of frost are less felt than formerly, as the early sowing is very generally Swedish, which are nearly first proof; and the late sowing preserving their succulence and their tops green and fresh, are more protected, and less liable to be injured by frest ; no modes of preservation are resorted to that I heard of, nor any considerable quantity drawn before hand against When they cannot be come at for frost and mone, hay and cabhages are resorted to. The common turning are easen first, and the Swedish towards spring ; these latter washed and sliced are a favourite lood for rams and other choice sheep stock, and might be given with advantage to any kind of stock, not excepting horses.

Respecting their value, I believe from three to five pounds per acte is as much as a crop can be sold for to eat on the premises; but they are more generally cultivated by persons who consume them with their own stock.

BRATS

SECT. XIII-COL, SEED OR BAPE,

Is cultivated tipon different soils, but supposed adapted for stronger hand than turnips can be grown on to taleantage ; it is grown in difs>areat ways. 1. Summer cole, the tillage and manure the same as for turnings time of sowing soon after Midsummer ; it is never sown here for the seed, but universally for feeding sheep, for which purpose, it is supposed to be much more autritious than turnips. I have heard experienced persons assert; that the keep of finding sheep in collected was worth double per week to what it was in common turnips; but Swedish turnips are, I Utilieve, reckoned equally natritious with Colescol ; it is generally eaten in the autama, or the beginning of winter, and is used in two ways ; first, by folding sheep upon it in hurdles. Mr. Stone; of Barrow, had begun in October 1807 to cat his summer cole, by folding ram hunds upon it, ten in a pen of seven hundles square; this pen would contain about ine sixteenth of an atre, and the shepherd expected it would serve them one week; as this is prime keep, 6d, per week each young ram is not too much, atwhich rate the value of the crop is 41, per acre. The shepherd informed me it was intended to ent off the cropin time to solv autiis in wheat.

A second method of using summer-cole is to mow it and carry it to grass-land, where it is eaten by rame, or other cludice stock; and this Mr. Stone, of Knighton, informed me was his practice; he always uses it early in winter, as severe frost crackles its stalks, and he brittees does it great injury, the land is thus charred time enough to sow wheat, but I believe barley generally here succeeds.

2. Stubble

COLESEED OR MAPL.

2. Stable cole, is sour, upon ihc]»lou^; and an early stubble, generally oats ; and if this can be done about the nliddic & August, and showers succeed, it is almost equal to summer cole. At I Miley, Mr. Honeyborne informed nie, they gather and hind their outs, and set as many lands in a row as they can in shocks, and then immediately plough the cleared lands and some colescent withou I waiting for harvesting f: while and allowed plough aii'I sow the bude occupied by the shocks of cates dispatch in this business is the great object; a day or two, if a siuwer occurs, being of great importance ; and when the month of August is pust, it is too late to sow colesced on stubbles to any advantage. Mr. Watkinson, of Woodhouse. sows coloseed after pease upon the same intuciple; ind Mr. Stone, of Knighton, upon barley stubbles, the barley. Imims h-on grown upon one planglung of that stubblecolis is always saved for spring sheep pasture , and being green auil succulent stands the winter frest letter than suminer cole ; it is a good resource for ewes and lambs in April, and is always followed by a fallow for turning, or some other green crop.

Dr. Dam in thinks colesced mucht be profitably transplanted upon early stubbles ploughed, and believes it posable that some method of mal; ag the holes for the plants, mucht be contributed to expedite the busiles, by a bread wheel to be drawn by a man or hone over the ground, with pionizent pees on its periphers, two inches long and nii.e method and thus transplanting, a crop might be raised bed and thus transplanting, a crop might be raised accurly equal to summer cole, or the same stathed might be applicable to other bardier species of the brassice transplanting a state between the ground might

Cannot be sort is generally the large drum-head Scotch compared to a soil somewhat stronger that is minute for turnips; the plais are made on garden-beds, and the series solui at two seconds to a Michaelman, or rather comerce these will be ready for transplanting early in the spring, and in use if autuin, or the beginning of winter g. In March: these may be planted out in June, and will stand the winter much be the planted out in June, and will stand the source of the planted out in June, and will stand the source of the planted out in June, and will stand the winter much be the planted out in June, and will stand the source of the planted out in June of the plantes of the plantes of the clabinge.

'The tillage is the same as for turnips, except that the land situal Le got forwarder for the early crop, which best succeeds turnips, or some other clean crop : when the land is well cleaned and harrowed down, it is then stricten into two bout ridges, and the hollows between the ridges well manared with good rotten muck, and the ridges then divided by the plough, and turned upon the manare, it is now ready for planting, which is done by hind with a setting-peg ; when the ridges are divided, one furrow only is turned each way upon the manare, the middle of the ridge being left to mould up the plants with the bog-plough when they have under some progress in growth.

At Dishley, Mr. Honeyborne begins to plant cablages in April, and < outinues planting to the end of June ; they generally succeed at out stubble, well worked and manned in the auUiiun, whiter and spring ; the ridges here are four feet asunder, and the early planting is two feet six inches from plant to plant in the rows, but the later planting are fut closer, being two feet another : the number of plants

CABBAGES.

upon an acre is thus, 4556 to 5445, average 4900. Ma-Honeyborne rockons a good full crop to be 30 tons per acre, this is about 14 pounds each plant upon an average ; but I saw many crops of less than half that weight ; they are first plough-hold, afterwards hand-hold, and kept clean from words.

At Lord Moira's, cabbages are cultivated in the same manner, but the rows rather closer or ocarer together. Mr. Stone, of Barrow, had several acres of cabbages sin: dar, but the later set, not more than three feet from row to row, and they are grown in the field in most parts of the county.

Pii **Charles and the ball of t**

Mr.] and the source experiments more on here, it was found that calling a did bet in a so much design and and a source of the source in the source of the sp: a did are the source of the source of the source of the adranic difference of the source of the source of the addition of the source of the addition of the source of the addition of the source of the source

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the in tumipSj and to be in it was a below of the second the greatest damages of the last to comtend with is from drought at the time of planting, as a -uge quantity cannot well be watered when the roots have taken I, he greated they will do prefly well; they are generally carted of the last for assure to the promer will tend to mpowerish the farm, if the crop be kept clean from we **'it**.

SECT. XV. - KHOL RAD'E.

THIS is ft ne under trial al ley, O yards - har a largt^ Up¹ in ulent, and kindly app< known oi mtritivt

I met with no other plant of the brassice or enbloge species, in field culture, in the county in 1807. So;ne years ago, at Dishley, they had a whole field of the borecole, or Smotch cale, which seemed very pruniting; but this plant has given way to Swedish turnipn, whose moreriority for hardwess and nutriment is fully established.

1; argot to name in its proper place that, in 1867, the turns period of this county, and particularly the Swedish, were considerably injured by a mildew, in which, I believe, msects had no concern; a place of Swedish at Dibbley bad not only been frathed, and the herves discoloured, but many of the plants had perished, and left many bare petches, hatchester; a which
Anno

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which Mr. Honeybourne assured me had been full of plants, though now occupied by chick weed a: d some other wards; the crop was in October fast recovering, no particut ar insect had appeared on the leaves, and whether there had been worms at the roots was not agrestamed; the cause was prohably from the atmosphere.

SECT. SVI. CARROTS

A o not at presi the president of the control ity, in field culture; bul liuie of the land as adapted to them, being generally too strong (>r loamy for their culture; they have even Uiem up n' Dubley, in favour of Swedch turiiip.s not' diil I see or hear of a whole field in the county in 1807, though I made many implifies : a few are grown in the field at Lord Moira's; their crop was consideraijly trespassed upon by the game, which, I believe, they do. not consider a an implement circumstance. The culture of this plant is diminished, and has given way to that of Swedish turnips.

SECT. NYM .- TOTATOES

Tarash are grown in sufficient quantity for the table, as well as for live stock, and their different modes of culture well understood and successfully practiced. At Lord-Moira's seven neres have been grown in a year ; the usual plough culture is, after working and harrowing down the bind, to strike it into one-bont radges, then to drop the

sets

teta among the bulk JWS; cover them with mu< muck with sui); after the land is L moved dow a the muck sliould be had on in small heaps in rouse; and as the onebout ! dama commences, the sets should be dropt in the hollows by women after the plough, and muck shaked in over lliem from the he;s; m;iy be covered slightly with dispatch by hand-hoes, and when the plants are sufficiently above ground, they may be home-hoed with the plough-hoe; this is the common method, but with: some vai intions. Lord Moira's farming bailtif informed me, that he has grown four acres after vch has grazed by sheep; no manure was used for the potatoes, but the land in good heart for the vetches; they were al! planted in one day, June 1st, by striking the stud ii» oue-bout interest designing the second second addition ad covering them with soil without manuring ; they were afterwards horse-hoed and kept clean, and produced a good crop. At Dishley, some years ago, I have seen a whole in the second second managed in a second second in the above; but they have now contracted their culture of pointoes.

In the neighbourhood of towns, and to supply the markets, rotatoe? are often planted after digging and manuring the laud, by a setting-pug, and the sets dropped into a hole, and raked over; and in this way they socceed and answer well upon a small scale; they are also planted by trouching wids a spade; upon this system the land should be first ploughed, and manured in small heaps; a trench is then dag across the furrows, and sets dropped in the trench, and mark shaked in over the sets; a second trench parallel, and nearly close to the former, is then dog across, the soil from which covers and fills up the former, and so in succession; this trenching costs about half the price of digging, and leaves the rows about two feet anuder, is a

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good

POT AT;

kept clean by hand-hoeing.

In Chap. XII »rocess ibr preparing bet we part of tli) for ⁽; out any other manure than tg and burning, the operations performed b; there described, need not ! wei ,tr feet plough, and i: on as folk*

Wilking was no in all to close withing of potatoes. it assured i ittrcd lafjd, he could get as m;my or inorasunder than by close setting, besides the community of plough hoeing; with this shall now at four left a comp taed »pun this waste land, wilh than itself produced; and upwards amount of from 200 to 300 b when I saw them in the must of the getting up, which was done by hand-work at 30s, per acre to labourers in a heavy or 7 d. per bushel to individuals joining that body, Mr. Wilkes, bailiff, had estimated the whole produce at 6560 bushels; but from their tarning out much better than expected, then believed there would be SOOO at least ; they were selling on the spot at is, per bushel of solb. weight.

Great eronumy was used in the potator settings, as potatoes were, in the spring of that year, extremely scarce and dear; the sets were scooped out by a cathog instrument, or scots/>er made on purpose, which took out the eye or sprout, with about half an inch of the flesh of the potatoe withering to it, leaving the rest for are, and thus wasting trey little of the potatoe; these remains of the potatoe

wete

at the performance less that half the full price.

But giester economy still was put in practice ; the sprout- mie oped from he po>loce in mie out ties and plants-d, aud th's roots thus preserved whole for use ; these sprouts were pluced as above spainst the first furrow, and a tecond fttrn rop has succeeded equally well a even putatoes were strugged of tllci: sprouts, and put in beings to sprout again, and these second s! intrined me ttiut, 1y this second process, the oots \vere somewhat injured i quuli; Mr. Wilkes persuaded his Jabourets wives to peel their potatoes ratiii.- thicker than usual, particularly against the shooting eyes, a.id to cut these eyes out of the peel and p mt them, and this was done will success, and the crop equally productive wih that from common sets.

It issues be admitted, that such economy is not always necessary, though it was upon this occasion, and may be again; it is here recorded for future occasional use, and to show the resources of a strong mind, beat upon its object.

In 1807, were a good many patches of potatoes of promising appearance upon the new inclosed Wolth : upon a former visit to Leicestershire in October, Mr. Watkinson, of Woodhouve, informed me that they were so plentifully cultivated there (a populous meightsourboad), that th<5 were then selling at from 14st. to 10d. per bushels, these examples are quoted merely to show, that potatoes are plentifully cultivated in this county. — The disease in pot atoes, called the cull, is now very happily extinct, and is known to have been caused, by the particular variety being worm out, by long continued lateral reproduction, whit*h being but elongations of the original plant of out, must, in length of time, period from age ; the rep:K:dy

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in al reproduction of new variel succession succession succession and succession created, and plenty of heat liv vn iettes a: now in cultime are hereditary *is*h al; reproductions, orn out from age ties varieties of potatoes mised from seeding8 do not blossom for some star, which i. all order to from trees raised from the pippin or kernel. Dr. Darwin suggested from some analyzed in regulation, that public of the flowers of pointoes two or three times as they are reproduced, and thus destroying their tendency to sexual reproduction, might IIK reasonable the tree of member of their roots, by mereosing the tendency to lateral reproduction. which ins been in part proved by experiment, and it deserving of further attention ; also if the bulbour roots he care Fully 1-iken away early, and the operation frequently repeated, disturbing the plant as little as may be, it will tend to force the seed in the flower, as by destroying one mode of reproduction, an effort of mature is directed to

The method of model point of a respect to the to fair n_{1} index in piece of heaps of the to fair n_{1} index in a jittle. If in 1 and pi), their n_{t} and n_{t} and pi), their n_{t} and n_{t} and pi), their n_{t} and n_{t} and n_{t} and n_{t} and n_{t} and n_{t} in hed in n_{t} and n_{t} an

The uses of potat(ses as food for mankind are well known; and they are so important a part of the subsistence

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of a labourer's family, Mil so wholesome and generally acceptable to children, that nothing but the greatest cruelty. and absurdity in our rural economy can prevent (and nothing ought to prevent,) every industrious labourer resident. in the country from having as much land for pointoes as he can well cultivate, without losing his daily labour; which ought to be as much as will produce a peck a week for his family, and twice the quantity for his pig, making in all about 40 bushels per annum, which may be grown noonone-cightle of an acre, in the rotation of potatois and wheat alternative, which, with other vegetables, would require at least one-third of an acre; and this quantity of land at least ought to be had to every country cottage, at the same rent it is worth for agricultural uses; which would, perhaps, be the cheapest and best relief that can be given to the poor in the country.

Potatoes are generally taken up by hand with a threetin*d fork, and they caunot be done so well in any other way; the small and bruised ones are then picked out for hogy ; the very large produce per acre is, I fear, oftener talked of than realized, it is generally from 200 to 400 bushels per acre, the latter a great crup ; the price varies greatly with the plenty or searcity, from 1s, to 4s, per bushel, avorage about 2s.; when cheap, and in abundance, they are given to all sorts of stock, and their nutritive qu; lities are well known; Dr. Darwin says potatoes which have andergone a cermin degree of heat, contribute more to fatten animals, because the accimony of their rinds is desuroyed by the heat, and their austern juices converted into murilage, supposes them best boiled in steam: however to fatten hogs kinally, they require the addition of a little barley flour. Mr. Amsworth says, nothing yet found out exceeds pistatoes boiled in steam, for all sorts of stock

t\$\$ CtOVEB, TRETOri-, AND JIAY-GRA5

in winter, horses not **excepted**; but boiling in steara for jtock is, I believe, not mui.li practised.

Dr. Darvthe refuse, but from the I :iped, if not the largest roots, **and** eposes them better planted hi drills than in hoi

Whether potatoes t or in> they gi upon, **ler** they are c from weeds, ;i»4 be kept y r melnd,

hes, and then the couch exhausts the land, not the potators; they should therefore never be planted on couchy land, until the couch be destroyed. Potstoes are sometimes succeeded by whent; and if the land be clean, either wheat or vetches follow them with great propriety, if not, they are properly followed by a cleaning green crop: no modes of preserving them heyond the senson are in use, nor are they used in bread, except in times of great scarcity.

iECT. XVIII.-CLOVER, RED AND WHITH, TRLICIL, AND RAY-OLASE.

THESE may be treated of together, as their culture is the same; they are sown to by down tillage hand to posture; nud very soldom in this county with any other view, and are almost universally sown either with barley in the spring, which barley has succeeded either a fallow or a cleaping green crop; or they are sown with spring wheat, or amongst automin wheat in the spring, which wheat has succeeded fallow or turnips; no manure is particularly had on for

there.

CLOVElt, TI L, AXO HAY-GRA*

these seeds, but with some crop io the course of the tillage.

As these seeds are generally sown with a view to pas* tur; found tl)Ht their growth is very much j>tt>-DHJ the laud a good liming, with the green precedes the crop they ate sown. with ; from four to ain tons of lime then laid on per acre, scurcely ever fails to force a good crop of seeds ; and the seeds being grazed for some years, by the pastare if affords, inc: and improves the ?taj le of the land : the quantity nown, when intended for pasture, is, or should be per acre, 10 or 12 pounds of red clover, six or eight of white, about foil: of trefoil, and one or two peeks of ray-grass; sometimes the I related is another and an some strong rach loans the ray-grass also, the natural produce being thought better ; when land is intended to lay but one year, red clover alone is sown 10 or 12%, per acre, or with a peck of ray-grass; it is time generally moves for borse forder, and then let lay for aftermath, which being used by carting to the stable, or grazing down, the land is then ploughed and sowed with wheat; but this practice extends but to a small proportion of laud.

Sometimes the first year's clover is grazed to the end of Mai,, and then the homocks mover, it such there he; the field dressed over and reserved for seed; but this also is rarely the case, it is more commonly a crop of mixed seeds, moven or grazed the first year, and kept in postare several years afterwards; if broke up soon, red clover is reckoned the best preparation for wheat; white clover is generally, or always rown in laying had to postare; for though good sound loans throw it up onturally, yet not so early or laxuriant as when cultivated.

Respecting land henry tired of clover, it is not understood to be the case in Leicestershire, where the enclosed

J8 CLOVER, TRE > 0 RAY

land is seldon or never exhausted by hard tillage, and lias sulficient rest utder partner, land tired of clover is too often exhausted by tillage, and land down in an unimproved state, and will seldom income if a good limiting be given at the end of a tillage, and the land be laid down clean; if the seeds should by chance fail, the remedy is to plough up the stabble and now vetches, followed by a green crop, automad for, and then liarley and seeds again.

Trefed. — The seed sold in the unrited is commonly the menticogo logisticae: but I t are seen in the markets, and even brought and used the hop trefed. Trefodians agreering is they are both annual plants, and cut but a poor figure in the aftermall, and if they continue in the ground, it is from shoulding their steels; though I believe after top dressing hand, they sometimes shoot from times of roots remaining in the soil; they are never sown here unless with clover, awid consequently take-the same rotation, being mown or gr...ed with the cloves, and generally disappent as the tarf itreightenst after the first and second year.

Revegrass is never sown here alone, but with the social beforementioned; it is adapted for poor or cold land, but flourishes well and early in the spring on good land; and from its earliness has been thought of considerable value, but is not supposed good enough for the rachest and hear hands, nor equal to the spontaneous produce; it is grazed or mown with the clover it is sown with, and remains some years in the ground; but the natural grasses soon push amongst it, and after a few years it remains but elightly mixed with the rest, and is ploughed up with them mean commonly for oats, but sometimes for wheat, beam, or other crop.

SECT.

BECT. XIX -SAINTFOIN, LUCERNE, CHICORY, BURNET, &C.

Store: FOi.v is not, the store leader at all on Uivated in this county; very little of the land is adapted to it; though, in case of the enclosure of Charnwood forest, I am of opinion it may be grown to advantage on some of the stony hills of 1! at detrict. Respecting the cultivation of incerne, the growth of votches makes it less necessary, but it has the advantage over vetches of lasting many years, and being equally productive and matritious, but is inferior to vetchas in the samplicity of us culture, as it requires a good deal of care and attention for the first and second year, after which it will ministain itself, and he equally productive with vetches for many years : the only instance I met with of its culture was at Lord Moura's, where Mr. Ratherford had drifted in with Cooke's drill, 201b. of the seed upon an nese, between the rows of barley, land in by the same machine at 12 inches distant; the locerne was dilled in after the barley was up, and appeared very reguhir and promising, and the basley stubble clean from words. I think tins lude fair to be a very simple and succentral method of cultivating this valuable plant; as I know it is in vain to sow it broadcast; it must be hoed and cultured fill it is got a head ; and in this method, on a clean basley stol
ble, it may be need and cleaned the writter and spring following, and the next nummer it will come to a crop, and require little farther cure, except cutting and carrying home for use, and will probably remain in perfection peren or eight years or more.

Chicory is not cultivated at present in the county; it has been tried at Dishley, but not being thought good

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ion: **now** left off and **negh** rt is rarely to be fou ntaneous in the conni [;] recollect of raeeti; ii it was I J el ween Havboiongjh and H alia ton.

Bumet has been rarely, and hut little cultivated; it 15 been lately sown at D: iall quantities, mixed with clover and other seeds, mere; tj of experiment, Mr. Houeybornc told me they were not much acquainted with it; it will have no great effect there in the quanuij, the soil being but I its natui is upon chalky lira ils; it will sustain the average drought having a low: tap-D of :ch {iii<]s its way the m to a considerable depth: it will c< uj>on the and bu I furze or other ml bidly growth, as a know by experience, having sown it 2f ago ir, tuation it still remains; it is common natu: on some olher calc:s and the second of I dunk it I it I it freely; is a very different plant to the meadow Burnet j it. grow*, nati ind at Burli Bui and an an angest rubbishy growth, (i) some of nmons of ihut i

lh (*Jinx* are but **little** gro\ .is county, and mental inf <-& here, concerning the **cultivation** cut of these \

SECT. XX .- WEEDS AND WEEDING.

The E injury must med from weeds on cultivated land, in certainly of thus importance in to demand a separate section

V£EDS AND WEEDING.

sect. 1) not exactly within the plan pointed out by the Board; but ihc; attention of tb< -t be V much called to ihe m sis »f preventing or d Uvin, D iofly when that tl irig in patturi heaps of coin post, I , and •ct, and neglect, of

bane of arable crops, n < > *that they are more common here thai] n the r , I think they are more pn on lighter, hard tilled laud; but they are lo I of several sorts, aa i the benty couch-grass knobby rev uclv-gra LTtli has rank the unit berty couch-grass

An early well-main of a gr. crop, \s the only method i mud should b irdi. ihe same Jv. 1 h . surh'eient to slack the 1 a rich in a he trouble

The other rout weeds to be *tit* stroyed in a fallow, are common, or curled dock (*rumaz crispus*); should be carried off the land, and thrown in a heap to rot, or burnt,

WEEDS AND WEEDING,

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or mixed will) qti;ck-lime, as it will not perish by common exposure to the son and air.

Common thistle (servatula arreaus), and spear thistle (carduas lonceolatus), will perish by exposure, but are best thrown amongst quick-line.

The following seeding weeds were particularly complained of at Diabley ; chickwood (*abian media*) promoted by a fine tilth, the need being thus let loose from clods ; to inevent it, the turnip fallow should be got forward very early in the science, and should lay some time to purge itrelf of seedings before the last ploughing ; and then being ploughed up and sown, it will harrow rather knobby; and not to dust ; and will not be so prome to chickweed as tilough two or three ploughings were just then given ; in some places the land is given to produce the ivy-heaved chickweed) rerouted heders fallo), which may be discouraged in the same mamer.

The fit here, or wild spinsch (Accorposition errode); the willow-weed (polygonius persidered). Bird's lake-weed (polygonius extremely purse (black are retter & large patters), are also common on that farm ; they are alt hardy annuals, extremely prolific in needs to prevent their growth in crops, the tarrip fallow should be pk weized carly by ploughing and harrowing, and then let hay for showers to vegetate the seconds ; then harrow again repeatedly, and at length plough to expose a feesh suffice, an if from rol, to the sun, air, and showers ; when this begins to vegetate, harrow and pulserize, and let it hy for showsins, and hr. degrees, and repeating the operations, most of the each in the sold may be expected to vegetate, and may then he destroyed before sowing the roop.

In all cases root words are best destroyed in dry weather, and seedlings in showers ; when a fallow is cross ploughest at should lay in its rough state till it begins to grow, which

VELDS AND WEEDING.

is the signal for applying the harrows; which should be used till the soil be worked down level, and the couch within the effect of the harrow teeth fetched out, witicli should be spread abroad, or burnt, or mixed with quicklime; but in hot dry weather it will perish when loosened from the soil by spreading it to the sun and air; when the soil harrowed down begins to produce fresh shoot of grass, a good ploughing should be directly given, in dry weather,

with harrowing, will generally be fatal to the root words, whose destruction may be completed by the ploughings and harrowings afternands given, to expose and destroy the seedling words; bence then the necessity of sumraer fallows, or fallows for green crops, to purge the land of v. < sells; as the fallow for a green crop must terminate soon after Midsummer, it is necessary to commence with it early in the spring, to give time for vegetation, between the different operations.

When land has been once well cleared and purged from weeds, the management of fature fallowing will not be so laborious and difficult; but it will still be necessary, at intervals, to keep the hand clean, for the concli-genesics will he reproduced, from the termains of living fibres recovering by degrees, and they cannot he kept under but by summer till age; it is in vain to attempt destroying them by handbosing or weeding, they are too firmly riveled in the grou; d, and breaking their roots only makes them pash out Inch shoots with greater effort; in gardens they are forked out by hand, but this cannot be done in field culture; were it not for words, summer failowing would be unnecessary. Dr. Darwin has observed, that a similar fallt w may be an advantage to a poor soil, that has nothing to has, but; the contrary, to a rich soil, which has nothing to gain; it is however necessary on all soils us a kind of wholesale destruction of weeds; and it may be deemed

fortunate that the introduction of en crop on **almost** all sorts of la

The other most permission words, that I objKrwl in il courts, were a follows:

Challock, in three distinct plants; wild mustmed (singple arcensis); wild rape (brassics mapus); and wild radish (Raphanus raphanistrum).

Corn chamonille (anthemis arcensis), in coni ard bean crops.

Corn manigold, go Uings (chrytentheman acgetam), in barley and tuting cropn.

The most permittions were prevalent in bein cror the data of grass and couch roots, were can do more be destroyed in the fallow ; but he while and edlow to be destroyed in the fallow ; but he will grow by the roots, which should there for be destroyed in the fallow ; but he will grow by the roots, which should there for be destroyed in the fallow ; but he will grow by the roots, which should there for be destroyed in the fallow ; but he will grow by the roots, which should there for be destroyed in the fallow ; but he will grow by the roots, which should there for be destroyed in the fallow ; but he will grow by the roots which should there for be destroyed in the fallow ; but he will grow by the for be destroyed in the fallow ; but he will grow by the tive in the fallow is but here and will grow by the couch is the should the should the should the couch is the should the should the should the for be destroyed in the fallow is but here and the should the for the should the should the should the should the for the should the should the should the should the for the should the should the should the should the for the should the should the should the should the for the should the should the should the should the for the should the should the should the should the for the should the sh

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WEEDS AND WEEDJ C.

grow in, but the whole country; and as > rniciou ; at all upon foul tui **mid** smother **sttcfa** grown after tmf, ry wee aid ducc <iown on brolau g feet ih foulness of $v \cdot$ e to the tnliivatrjrs^

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I u! o charved in com fields and fallows, the preserve data or white manipold (argument of the fallows, the preserve jtioidts); goc,¹ and the second of the fallows of the fallows ahall has enumerated a second of the fallows of the fallows be weeded out, and shall the related be defined in the fallows, and care should be taken be defined in the fallows and care should be taken be defined in the fallows a should be taken be defined in the fallows and fallows a should be taken be defined in the fallows a should be taken be defined in the fallows a should be taken be defined in the fallows a should be taken be defined in the fallows a should be taken be defined in the fallows a should be taken be defined in the fallows a should be taken be defined in the fallows a should be taken be defined in the fallows a should be defined by the fallows a should be taken be defined by the fallows a should be taken by the fallows a should be defined by the fallows a should by the fallows a should be taken by

WEEDS AND WEEDING.

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the necessity of occasional follows for prevanting them, and of horing and hand-weeding, for their extrepation must be very obtains.

The weeds in hedges, on road sides, and heap} ol compost, are a very great pest to the agriculture of this district : the most penucious of the former class, are the a and spear matte; these, in many situations, lire com suffered to grow with the greatest luxuriance, to ripen their seeds and disperse them Over the country with the wind a they ought always to be cut up, either at public or private expense, before secting; the same are also often suffered to flourish on soil thrown out of ditches, and meant for as well <:otnpo with the addition of while spinach or consection to heropoliticate address \$ willow weeds or la! sorra); ragwort (senecio Jacubece); flixweed (ausunbrium) tophin); and nettles, as well as many others; these being foul in the land il is laid on, so that the dressing may do as much hurm as good ; weeds on compost shemid be allows mown be fjre seeding, if the heap caunot be turned over; or if the growing weeds were smothered with freish mucl roil, or lime, spread over the heap, they would add to the value of the multiple, instead of four line and the country with

Weeds on pasture land, docks and thisdes, both the countrion and sprar thisde, are often suffered to grow unmolested in pastures, and to ripen and disperse their seeds; this former indeed seldom go further them the pasture, where they are trod in and plinited by the fact of cattle; the latter fly over the whole country. Docks should certandly be rooted up by docking irons, or drawn by head after seaking raft, and may by persoverance in those methous be weakened, and by degrees dest oved in any pasture.

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In parks they are destroyed by the billing of the deer, but no utilici live stock will grave them; the spear-thisdle should be rooted up tilt; same as the dock, and the common thistle cut off within the grannd; by which means they may be in time destroyed; mowing with a seythe is briter than nothing, as it prevents their sceding, but they are not thus cut low enough for their exterpation. I have often thought, and think still, that the same of the flying weeds, being of the maure of a public missnee, are, or oright to be, indictable at common law, and are wenthy the attention of the police of the country. Mr. Marshall thinks an indictment at the court leet might be preferred for such a unisance, and matters of its importance law?

The other must prominent weeks, and plants on grasslaid, which it would be desimble to entirpate, are muchp;illy as follows:

Rushes (juncti chinat); sedge grasses (Carer's); the sock grass (aira compilate); horse-tail (equiverant pulattre); these will generally give way to draining and top-dressing.

On many neglected old pastaires, are too often to be found, hushes of haw-thorn, sloe-thorn, bramble, farze or gorse; also hen-gorse, or spinous rest harrow (exonin spinosa); dyers' broom (genista timetaria), and sleitles; these should be rooted up, and carried from off the land, or burut thereon.

The wild carrot (daucus carota); regwort (sentric Jacobae); goose-tansa (potentilla anarina); meadow knapweed (centaurea nigra), and some others, ought to be extirpated as weeds, which they may be by rooting up, topdressing, and draining the land.

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CHAP

CHAP. VIII.

SECT. 1 .- MEADQWS.

THE natuial meadows on the banks of the avers, brooks, and realists of this county, are very considerable in extent, and many of them of excellent quality : on the hanks of the Sour, near Leicester, as a considerable tract of excellent meadow land, which seems for led by the dependent of the line of the l of succeeding uses; in some places large breadths are formed as level as a sheet of water, and sartch as can ue conceived : this fertility is kept up by the river, by the continues on the banks of that river, down through Quorndon and Barrow, and to its junction with Trent; these toradows are occasionally subject to immidation, by which, their fertility in preserved, and is, perhaps, increasing ; but this river having its course in a lovel country, without receiving mix considerable supply from hills or mountains, is notwery subject to sudden or summer floods. The meadows on most of the other considerable rivers are similar. Water mendows require no manure, but they are sometimes grazed. Upland methows, where they cannot be walered, are occasionally top-dressed with dury, or compost to keep them in heart. The mendows of Leffestershire may mow from one to two tons of hav per acres and some water neudows

MEADOWS

mendows more. The rent of meadow land attached to farms mal be reclassed from 22 to 23 per nore, and that of rich meadow lanu £3 to £5 per acre. The expense of hav-making depends very mitch upon the weather, and will vary nearly as one to two; in this business, the custom of the custom ender an allir the of mak-liquor necessary, and that of a qui-Ihv botter than small frowr; the moviers, carriers, and slackers requi: the bay-makers, from one quart upwards : I SI!ppose the all twance of beer necessary, to be in value equal to half the wages. The process of hay-making is well known, and is, I believe, everywhere similar : after mowing, the and the side of the land of the second ; it is raked into viorowa, and alterwards into small cocks, which is the first day's operation ; next morning, the cocks are east into suddles, or beds, and if it does not cover the whole gro* turned over, and aftern ands put into a moderate sized cock, called quarter-cock; these are again spread the third iay, . and the hay turned over, and in the evening it will be ready to put into large cock for carrying to the stack ; this, in three days of good weather, tit! \ hole operation of hav-making is performed; in showery weather is will sometimes last a fortnight or more, to the great anjury of the her main double which time the hy-ma; to be kept in attendance. To take advantage of every hour of favourable weather, to prevent the bay being quite gpoiled. In very favourable weather part of the above operations are squaetimes omitteri, and the ing carried sooner; but this should never be done, for the consequence generally is, lie lisy is only cresped on t; e outside, not the roughl) made, and will therefore over ferment, and cometimes take 1.re in the stack, which is often the case

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MEADOWS.

from being corried ii. to great the re. The stack for argr quantities of huy as best of an oblong form; for small entantities a round cock may do as well. An oblong slack should not exceed four yards wide in the bottom, but overlanging on the sides; should be well raked and pulled, to make it solid acti compact, and when properly settled ty be properly made, no tunnel to discharge the vapour generated by formentation is necessary in stacks of the above breadth; such vapour, except what escapes aponumeously, being better smothered in the stuck to enrich the hay. I give the amexed as the proper section of a hite-stack when tinished ; it will contain from two to two and a half good wagon loads, and fromone and a half to two tons of hay in every vard length; a cubic yard of her, when settled, weighing from one hundred weight and a half to two handeed weight; and a wagon road from the field making about til net-quarters of a ton of hay in the stack.

A hay stack should be well bottomed, to prevent its absorbing moisture from the earth, and well raked down before thatching, to prevent the same from the atmosphere; by iteglect of which, great lass is often sustained in tops and hottoms, which, by absorbing wet, becomes mouldy far into the stack, and is fit for nothing but to rot as manure.

Respecting the expense of luy to the grower, I give the following estimate as the best I can form or procure :

and the second		E	ka
Prime cost to the grower, per ton	J	0	0
Carrying, stacking, and thatching, per ton	0	5	0
weather	0	5	0
Extra making on the average, from change of	0		0
Mating under terangible circumstances de	-		1
Monthly and been, per too	0	5	0
Rent of land, per ton of hny -	2	0	0
	1.00		

But i $ICIIKIN_>$, and thu 1 tocouul IucesOn comes *iu* tL« \ b.

SECT. II .- PASTURES.

In the nouth and cost of the county is a considerable breadth of rich old feeding lond, which is often unsightly. fro: 11 abounding in ant-biller, these are, however, generally removed 117 the pratest and best managers, but a good many still remain. Mr. Ajusworth says, the best way of reinoving them is, to cut them up with a two-lutrow plough, Stiucti for the particular purpose : they have also, it some cases, been cut up by hand ; when cut up they may he disposed of in three ways; the first is, to build them up in heaps, high and hollow, and whom they are dried a little to hum them to notes, which will make an excellent manure for the hand; mother method is to throw them entire into a pit of suder, internaixed with dawy; here the ants will soon be destroyed, and the earth and durin will jumme a good compost ; but the third method, which Mr. Ainsworth most approves, is to mix them with quick lime, and cover them op with the same ; this will destroy the an(-, and make good arange for the land, and will soon many times over repay the farmer his expenses, by the improvement thus effected.

Stock.-The general opinion and practice is, that land is best depastured by a mixed stock of sheep and cattle; the sheep lite close to the earth, prefer the young grass, and neglect the seed stem; thus making a paiture

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at '::imer; and afterwards appear what is called its are the sued s\ s, and ar^ , to ripen theii aw nourishment from the sol!, much more then when they a i succulent state. lie larger eti in, in time lick up these bents or seed shoots, wiili h> blades of the grass, and prevent tl: ig itself by r seeds.

Prodi: .—Tin icult ertain exp no alar pi by u i icult

bir Grahmme, upon 3 farm oi 400 acres, 240 of 200 sheep, at £5; supposing the average price, sinking iiio offul,tQ bu 7d. pet Ib. ivn will be all the of multion bred on the farm; but as other stock in kept, particularly horses, to cultivate the farm as well as horned cattle, suppose they consume one-third of the produce of grass land, remains 160 acres for the abeep ; the above quantity of mutton produced on which, is about 158 lb. per acre; but this land having been lately contanion field is not first. rate pasture land. A flock of 100 good Lucester enes should rear, upon the average, 120 lambs; of these, suppose 60 wethers and 60 theores; the wether should be kept two shear, and may then average SOlb, the quarter ; of the theaven, '50 may be fatted and sold to the batcher, from 18 mouths to 2 years old, and 50 taken into the flock in exchange for 50 colling owes. The annual produce of mutton may be reckoned as follows :

60 two-

P	AS	TU	RE	S.

(Jo two-shear wethers, a	t 1201	b. each	',200 lb,
30 theaves made fat	96	ilo.	e>880
30 aged ewes, do.	103	do.	3,240
			13,320

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hullock.

The flock the flock is a first second secon

The base of the rate of 10 sheep per acre, and have barren therein, or which had bet there have, and in the base of four terms of the rate of the rate of the barren therein a there is a shear of the rate of the rate of the barren therein the rate of the rate of the rate of the barren therein the rate of the rate of the rate of the barren the rate of the rate of the rate of the rate of the barren the rate of the rate of the rate of the rate of the barren the rate of the rate of the rate of the rate of the barren the rate of the rate of the rate of the rate of the barren the rate of t

ic former d, that 180i , f or mutton, mi n an acre land, but 1 fear so much is seldom produced. Jf

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bullock of 1 determined in the rent of which may be re*koned from 30k to 404, per arre.

Dairy grounds .-- In various parts of the county good dairies are kept, the business weil inderstood, and large quantities of cities produced and a second second Moira's estate to the north-west of the county, adjoining Derbyshire ; also in the neighbourhoosi of Appleby, Stareston, Bosworth, and Hinckley, are dairies of from 12 to 25 cows each, universally of the long-horn breed. In the vale of Belvoir are many danies, but the Holderness, or ehort-horn cattle, are kept, as well as the loog-horn, A dairy-cow well managed, in Leheestershire, is rectoued to make from three bundred-wright to five hundred-weight of cheese, average four hundred-weight; lint, in that case, the calf must be taken from the cow when young. A dairy-cow will require for summer and winter keeping through the whole year three acres of land ; produce in cheese four Lundred long weight, 480 lb, or 160 lb, per scre; to Vhich is to be added, the calf, and pork fatted from the dairy. Four cows will in the scason fat a piz to 12score, from 40 lb, which is 50 lbs, each case, and reckon-

PASTUBES.

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 Ib. pci

 of cheese or animal I

 Ib. pci

 Ib. pci

Sheep pasture.— It very achieve occurs that any pasture la d is stocked with sheep alone, the general opinion and practice being in favour of a mixed stock. It reckon that an agre of good sheep pasture will summer two curve, their lambs, and two shearlings, or older sheep ; and with the addition of one-quarter of an acre of green crops wither them also. Thus, two sheep are annually bred and fatted upon one acre and a quarter, or 80 upon 50 acres. The rent of sheep pasture, as it includes no mow ground, may be reckoned 30s, per acre, brodes titles and taxes.

Laying land to grass .- This is generally done, and should be always, with the first crop after a follow; or, which mowers the same end, with the first crop after unnips; and if the land he well limitd for the turnpy so. much the better. The turning should be caten off in time, to give the land two ploughings; and the harley being sown and well harrowed, or being dvilled in, the grass words are sown afterwards in the month of April, immoved in with light harrows, and the land altewards rolled. If the land be two strong for turorps, a harley fallow is sometimes made; the barby sown in March or April, and the seeds alterwards as in the former mae; if the barley fallow he well limed it will be much in taviaur of the grass seeds. If the failow he made for wheat, it. should be well limed, and the seeds sown on the wheat the beginning of April, and alightly harrowed in, and

The seeds sown upon all the light and mixed soils are,

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red and white clover, trefoil, and ray-grass; with withe markets are well supplied, but not regularly with any Respecting the quantity sown per ai the best other. managers sow most. I I. issuret! a ssland farmer, that 10 lb. of red clover, 8lb. of white, 6 lb. of trefoil, and a peck of ray- per acre, is not too much for land intended to turn and that be haB frequently sown that or more, and recommends it 1 others. About two-thirds of the .ommonly sown, except the superior which is never in less quality. O> strong clay loans the ray-grass is generally omitted, as being inferior to the spontaneous produce, and particularly in the vale of l > loop where I < 10 well as the loop of l > looplance, in which one form r had in down clean the by sowinTM clover and rayueigbbou me one had blad down had of the distances, will* white clover as ill bar formed a pasture in :> formed a pasture in :> per annum more than the former this is ultributed to the tpontan< ous produce, being much better than ray-group, and to the ray-grass sown, interfering with or retarding the growth. of such spontanr sown. I visited llic rate of Delayar a second unfavourable for ascertaining its spontaneous growth, but could distinguish the dog's-tail grans (bynoturus cristatus) every and the second sec floiiiiimut, Avt yet in many meest hollows were plenty of hassocky grasses.

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r si di in a young plant of clover \ then destroy il, will turn black, and d by treading refore, be 1 be in grazed by young plants will try.

With regard t dauU; streng! o it a top dn rnpoatj or otl the laud good previous liming, manuring the se

.Mr. Monk has v that, Mr. LyueSj Lord V) has found it ai gras much i

Lt icestandine, at least not old grass lands; the farmer is generally too fond and the coverants of all of the bad permission in ;!d, the effort, only be done by special account is betw ci mow a ton of 1 land should ing. '1 thu county i the former for the special account is an interval betweet is best done by special account is best done by best done by special account is by special account is by special account is best done by special account is by special accou

best grasses, strike impercieptible small shoots to a great depth, perhaps many feet into the carth, as this land seldom or never burns up, or turns brown in the bottest or **d**-rest summers; and that upon breaking up such land mis deep communication is cut off, and is many years before it can be restored.

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Mr. Amsworth says, never plough up any pasture or meadow land for corn, whilst the present annual value is as high as can reasonably be expected from tillage. It will seldom answer where the pasture is worth more than £0 so per acre. Good sweet mitned pasture is not to be equalled by any artificial grasses; cattle of all series prefer mie former, and it is well known they improve faster on sweet natural gross, where they can have plenty, thiun ou any other green food. When grass hand is broken up it should be with a view of improving it, and there should tmly one course of crops be taken to reduce it to fine mould, fii to neeve grass seeds. The opinion of the most emment land occupiers here is, that if mass land be broke up, not more than one or two crops should be taken, as, onts or wheat, then turning, if the land be proper, otherwise complete summer fallow ; in either case, four to six tons of lime per acre ; and then rown with wheat or harley, and the seeds before-montioned. With this management, and draming, if wanted, the land may soon he expected to form a good pastures-Faither particulars connected with GRASS LAND.

Stilton Cheese, This is, I believe, the rechert and highest priced thick cheese of British manufacture: it is made in most of the villages about Melton Mowlawy, and sold at the principal inns in the county, to accommodate their customers. The price, like other cherse, subject to fluctuation, but soldon. I believe, so low as 15, per lb, of more than 15, 6d: The first cheese of the kind is aid.

to have been made by Mrs. Paulet, of Wime"-ndbarci. The foil owing is given as the best receipt for making it :

the m;¹ same numb pour it up that have been your milk, nu to make it hard: put **pot** in a ploth, and lei pou stand half an boui inches **huutlr**

the every hour the day it is made; the next morning Bali it, and let it his in salt a night and a day; keep it swathed tight till it begins to dry and cont, and heep it covered with a dry cloth a great while. The best time to make it is in August.

A Soliton cherso, 4 have been since informed in the county, weight from seven to mine pounds, and the present price is from 1s. to 1s. 2d. per 1b. The parish of DeBey, near Melton Mowheny, in sold to pay its rent with this arhele. The price, in 1790, from the maker was fold per lb. from the retailer 1s; the advance from them to the present price, therefore, means only 2d, per 4b.; and from the receipt given, a cow's wolk seems to be worth 2s, per day in making it, but a good deal of trouble to the dairy women attends it.

History of Stilton chiese .- Mrs. Paulet, the first maker, being a relation of the well known Cooper Thornhill, who kept the Bell-inn, at Stilton, on the great north road,

frientished.

fitft bis house witji rich"fcheese, of a singularly ; , which brin: i tor by his customers, through of Mra. P. "ere gratified BI a pound; but where I -mde was not •on i>licly i ourse,

f prodt discovered, e art ot' ranking . dd, but H Hon Mowtiray; wid , and the

All Alles worth dames, that the s, and particularly fruit there, do no harm whatever in grass had, except that some surface of a second of the second of upoveri^h the roll, but a cattle are tool of the second of the second of the QO t them, and in whatever to decler them from the storm, the had an except the field in the storm, the had an except the field in the second of the particular roots perpendicular to the second of the second to the second of the second of the second of the second of the particular roots perpendicular to the second of the second of the particular roots perpendicular to the second of the

Ordered actoring — Mr. Ausseam is of opinion, lhat have a the most put in at pne year of the discussion in that charge, ale,)kc. : the distances have been the output error of all regetable substances have the dency to put reflection. How can be up the particles

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of old hay are more solid than those of new hay; but cattle prefer new to old hay, the latter being too warm for their stomachs.

JL :d light stocking.—Mr. A ins worth thh heaty stocking and change of pasture,, is to be prefered to light stocking in the same pasture ; for sll animals, as well as men, delight io change and variety: being confined too Jong u> or post tre, their breath, as well as **their** feet, taints the _____ make it disagreeable to them; but by taking them out at intervals, there is time given for the atm < >bere, as well as the dews and showers, to sweeten and fresh it.

The best old pastures of Leicestershire consist principally of grasses, with few Diadelphia plants j even the white clover but slightly appearing as the turf becomes strong and full, 1 commented an abundance of the dog's-tail grass (cynosurus crisiatus) in many of the best tteding pastures.

In the vale of Trent, upon the estate of the Earl of Moira, and elsewhere, and consider jle patches of reeds (arundo phragmitss); they are equally valuable with good meadow land, being sold to the builders to lay under plaster floors. They are also with the with the with the second s for thatching, and make 1 io gardens; und are, 1 Lebeve, good food for bores, cut green and carried u the stable line public used in Sweden, to the woold great

(Yisen hassocky grass, growing in the shade or in a wet seasot: becomes co; no and thur, and is related by calling it should be introd ; and is it begins to wither, the second or thisd day sattle will been eat at, and do well with the This has been proved by experiment, and is an advantagrous practice; and should be applied to all course pate its of graas ia the shade, or the shade because a cattle

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may

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may either be etten nn the ground, or carried to stalls." Dr. Darwin observes, a predilection for withered leaves a years in animals: cows will cat young thisles a few hours after they are cut, as their prickles become flaccid; h sists refuse yow as it grows, but cat it as it begins to wither, then losing a part of its acrimony, though enough is often left to destroy the animal.

little a tention has been paid to the hurbage of mendows, or to mending and improving the spontaneous productions by artificial culture. Mr. Cortis, and other hotanists, have turned their thoughts to selecting and cultivating the finest and best grasses, but little has yet hern down in this way by farmers, though it seems a subject highly worthy their regard, and of being encouraged by premiums from Agricultural Societies.

Dr. Darwin has, (I believe from Mr. Curtis) given the following list of grasses for a superior meadow, with the proper proportion of the seed of each, which, for two bushels to an acre, may be nearly as follows:

Perennial red clover	1
Do, white do.	1.
Meadow for tail, atopecurus pratensis	14
Tall ference, friture elation -	4
Smooth stailed mendow grass, pos prate	nie 2
Rough stallad mendow grass, pos trivia	lis g .
Dog's-tail, rynamerus cristatas -	1
Vernal grass, anthoranthum ediratum	1

Total gullons 10, or 2 bash.

The

The fex-tail, and rough stalked meadow grass suit most soils : the dog's-tail, and smooth stalked, will grow on dry loud ; the feacue, and versal, suit either moderately so.

The order cf flower. nd, M tail, May and June ; S, smooth stalked mendow, May and June; 4, roigh stalked meadow, June; 5, fescue, June ; 6, dog's-tail, July.

A meadow well laid down with these seeds, might be expected to be much superior to the common run of mendows. The seeds are sold by, and information may be had from Messra, Gibbs and Company, the corner of Half Mo.m-street, Piccadilly, seedsmen to the Board of Agriculture.

The rough cocks-foot grass, (dactylas glomeratur), orchard grass, is well worthy of cultivation, for mowing and eating greeo, in which state all cattle eat it, as it begins to wither, through cows are not found of it growing. It will grow in the shade, and is very productive; may be mm; a two or three times a year. The seed may be had us above.

JUJr. Marshall, who examined the spontaneous herbage of the meadows of this district, I have found in general correct; he says, dog's-tillj soft grass, vernal, ma-grass, and rib-grass, constitute nine-tenths of the grasses in many meadows, which are filled up with sodges and weeds.

The luUowing is the district, given in the order of its abantiance, or prevalence, jr being most co< (holeus lanatus), tall fescue (festuce elution), Timothy grass (phleum pratense), ray-grass (lolinon perenne), vernal gruss (anthoxonthum odoratunt), meadow fox-tuil (aloptcurren pratennis), common meadow grass (pon trivializ), dog's-tail (cynonurus cristatus), marsh bent grass fogrostis alba), hard fescus (festuca durinscula), orchard grass (dactylus glomeratus), quike grass (briza media), yellow out grass (avenu flavescens), meanlow burley grass (hordeam prateuse); other pasture plants, meadow laurnet (sanguisoria

FASTURES.

\, plantain grass (*piattlago lau* fiiug ci **iphia plants, mi** white clover (*ti latht/rus pralensis*), **tufted** v foot trefoil (*lotus corniadaius*), and **trailing**

The neutral or doubtful plants are, cow parsnipracleum sphovyarrow (achiHca millefoliittn),upright cr-title (rhi-nant Jiu• dandelion (leontodmeadowI (runcowslip (primulaiock (Lsneeze-wort (vlmari

On the Index of II) on the Index of III on the

The principal de article Wi de

ih* creepiii^ cinque bil (potentiale reptant), feathered

PASTU

cinquefoil or goo8C tansy (potentif heal(pmneila vut.cuckow flower (lychitU Jlos cueuU),wild angelrgelicain some; dand oaten by cattle; but asthey ore iitirpation would itnpnthe pasture, by making room for bettt;?

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CHAP.
CHAP. IX.

:DE.\S AND ORCHARi

Is OT711 G very particular occurs relating to these subts in this county. In the neighbourhood of populous tov us, are plots of garden ground, managed and occurs : by professional garden rs, for the supply of the markets, Avlierc all kitii and county regulables are to be had, apon reasonable terms, is in other plenting counties.

Mr. Answorth complaints that lab surers dury onot in general sufficient gardens, nor even costuges, for want of which tin y are driven into towns; and that in many cases by enclosures, the cottages have been sufficient to go to decay, as the land would let for as much rent without there, to the larger farmers, and by turning it to grass, fewer he-bourdes' cottages were wanting.

It is certainly very desirable, as a means of increasing ine comfort and happiness of the lower classes, that every labouring family, whose local situation will attnit, should have sufficient garden ground to muss vegetable food for such family, as well as an overplus of potatoes and other vegetables to maintain and facel a provides and where the least industry exists, such opportunity and encouragement would be a spin to promote it, and exertions would be made to cultivate

UARDENS AND ORCHARDS.

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cultivate the garden at spire times : no disponition of the land can add so much to the conforts of the labouring plasses, as encouragement licht out to cultivate a garden by extra exertion for their own bruefit and mirantage. I have no doubt that proper attention will be paid to so useful a measure by the public spirited proprietors of Leicestershire.

Kitchen gardens, we of course, attached to gentlemense and farm-houses, for mixing every culinary, necessary, and useful vegetable. I reckou garden ground of common fortility, to be in any case worth to rent, 65, per acro, but more is often given, especially near towns; 2s. Gd. per rod of 8 yards squime, is a common price, this is £9 95, per acre; the produce of garden ground in the hinds of a labourer, where a pig can be kept to make manure, (if well manuscel) cannot be reckoned at less than £20 per acre.

2. Oremand, seem to have been rather neglected in this county; there are an doubt many situations where finit would may ar well, as upon the deep rich loans, not being too wet; the principal cart of the county for the production of fruit is the vale of Belvoir, which produces apples, not only for the commuption of the neighbourhood, but quantities are sent to the town of Nottingiam and Grantham,

Mr. Ainsworth, who has been a professed gardener, and who is very intelligent, says, the planting of orchitets in proper situations, would undeabledly be a great public benefit. Fruit is a very useful article, and apples through their scarcity are very dear, seldom less than one shilling a peck, and sometimes in 6d, ; besides, the increase of cycler would not only add to the pevenne, but chose the boart of the poort even the busks for swine would be a profitable actuale; the wood also is valuable, for many uses besides the fire, and some softs, as the cherry and plumb-tree, sell for

GAVDEK5 AND ORCHATIDS.

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as much or more than oak. Had there been a clause m every act of enclosure th> , for the proprietors plant fruit u. proper distance in the hedge-rov this generation would have cuiiar benefit; if tin orally planted the fruit would not t?n; it is the scarcity that causes the temptation, atidr fruit is dens? cf more attention.

 \e soil •
 ••stershire, is in some degree adapted to the production

 ed to the production
 \e the opinion of the following uiiuin: " To nal mcct-18, report the matioDj aq deduced fr

 adduced fr
 and situations best ad sards, a the means used in their plantation and subset

From the observations I have made in Worti :e, I shall answer, that the best st leep loam, not loo cold nor wet; a hard gravel sub»tr i>!c; the aspect not too **mac** pi ante are be repeated after plantii. 1 ncces the best soil for fruit I have seen in the con vale of Bi

CHAP

CHAP. X.

WOODS AND PLANTATIONS.

THIS may no mean a sponland counity, and therefore, without any particular established systems of managing commercaroods the timber is cut down promiscuout.]; at the pleasure of the owner, and meets with a ready sale, for the various purposes for which it is adapted. On the Belvoi; estate is plenty of timber an"i plantation, and Donthe second secon age, from the young plant loss late of decay* About many erof the gentlements is pierred to the stand planand I particularly ohse the beautime imr est :to *oi* Herric Herric an abundance if ripe well grown ow corrections processes I in a implementate, jid now so upe as to be fit for any use to which only h appli* cable. Mr. Monk observes, there is very little timber in the county, except in the hedge-rows; IWhiich Wood thriving only. Acton Flamin k Wood, about the same, ks and small asli de "d the woods about Beaumanor, are the principal*

•c',reat deal of in the second to the county lltcre

a very

370 WOODS AND PLANTATTO! S

a very pit sing appearance. Some people are of optuion that timber is here too much encouraged in the enclosures. There is very little timber on the Melton Mowbray aide of the county, till you reach the Duke of Rutland's cetates, where there are very extensive plantnions of oak and other forest trees, which as they grow up will be a great ornament to the country.

Tinco are a few spring coppices in the county, which are coppiced at about a 20 years growth (Mr. Mook) : they are upon too small a scale to found upon them any particolar system.

Mr. Lynes, Lord Wentworth's steward, plants Dutch willow, on low swampy ground in bods F2 feet wide, 2 rows in a bod, which leaves the plants 6 feet asnadar every way; the alleys are dug between the bods, and the contents thrown on the beds; they are cut once in about 15 years, and by this management, the land is made to pay full, $40 \le per acre, per annum-Mr. Monk.$

I pon Dishley farm, are small plautations of willow, made by the occupier, Mr. Bakewell, and continued by his successor, for the purpose of raising ralls for fencing, and for hurdles and gates, thus preventing the use of oak.

In some of the young plantations about gentlemens' sents, I observed good large caldinges, grown between the young trees; this I think good economy, as keeping the plantation clean, and 'growing a valuable and productive crop without waste of land or labour.

In a tour through the county in 1807, I made further observations on its timber and woodlands, and think the county contains as much as is desirable on so good a soft I believe the annual growth, or increase of the growing timber of the county, aided by the regular importation, is sufficient for its domestic consumption, without lessening the quantity growing ; but little or no great supply for ship building.

AND 1*LANTA

building, or naval purposes, i be boken for heir, ai-OH, which Lord Moura has a profusion of timber of every kind in Donaington Park, of between 4 and 500 acres; oaks of all ages, from the young sapling to the old venerable oak, that has stood the blasts of 4 or 5 conturies, now past maturity and verging to decay. I cannot help thinking but it would be a rational, desirable, useful, and much to be wished for triumph of unlity over taste, if the great land proprietory would permit these to be culled out and sent to gave it, before they were too for decayed ; their places might as a oplast by fresh plantations; and inferest, profit, and personal advantage must strongly second the proposal; many of these would now in a mild and moint spring rield murr of them I fear use too far gone. A considerable manin ligh perfection and manufity, growing almost close to the Trents and dispersed all over the park, in clim, ash, growth.

Load Moira has annual fails of timber and sales, in South Wood, Ashby old Pack, not by auction, but upon the following likeral principle : the timber is cut down by his location's agent, and the bark and appendages end ; it is then marked and valued by a proper judge, tree by tree, and the value cotered in a reference book : an agent attends at stated times, and selfs to any one who upplies, farmer, dealer, or trailesman; wintever he fixes on, whether on one or more trees at this valuation, no abstendent is ande or advance put on. Mr. Duwson, his location, but the tenants and the country are thus accommodated for their own concomption.

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Price

172 WOODS ANJ> PLANTATIONS.

The price and value of the different kinds of timber in the Midland counties, *I* have been well acquainted with, for about 40 years, the first CO years of which, it under, vent but little advance ; but within the last 20 it has adconsiderably: the following arc the Leicestershire srices, at two periods of time*

Price of Timber in 1786, /rom Jllr. Marshall Price in i80T.

					ALC: NO.		%, D.		S.	D.	I,	36
Oak in the rouad,	, per foo	t ·	-	1	6	to	2	0	12	6 L	13	0
Ash,	ditta	-	64	0	9]	0		6	2	0
Elm ami Beach,	ditto			0	9		1	0	12	8		
Poplar,	ilitte -	3	Con the	0	3		1	2	1	6		
Jnnb Oak boards,, per square fooi				10			0	3	0	6		
Elm,	ditto	-	-				0	v	0	2\$ to	0 0	3
Asb,	ditto		22				0			di	río	
Ptoplw,	ditto	-					0	14		ditto		
Ash Axle-tre«	-		1	3	3	to		6	4	6 ta	5	0
£x-iuch jcllys, a	trine of]3		19	0				16	0	18	0
Narrow,	ditto, d	litto	-	8	0				12.	0.		
Sim Naves, per p	air -		-	-	0				7		.8	0

The value of growing oak, coppice timber, with the bark and all appendages, seetaa to be doubled within the last twenty years; the timber it need rather m than as two to three; but the value of oak bark in that time ii advanced more than four-fold.

WOODS AVD PLANTATIONS.

WOODLANDS.

From Mr. AL. i in 1786. Prica i 8- D. Making Fa oourer finding bouds a score I O per sepre Ditto, employer finding ditto -Cotting out Port and Hal Cuttiner o>. ditto Cleaving j 0 4 per 100 0 6 per 100 CotUngand ;> Cord V 2 0 per cord 2 6 per Cand Double dirring Sward, 18 inches] 1 5 per red el 64 deep for planting square yants

Add oce-fiith, or 20 per cent- advance, where *tin*-sent price is not given.

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CHAP. XL

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VASTES.

THIS county contains no amors, modulating, logs, fear, or mariles, or st least none of any extent, or worth the least notice hi a general survey: its only wasten of any mechant, are known by the names of Charnwood Forest, and Rotheley Plain; they are both of them properly commons, or sheep-walks; the former is said to contain 15 or 16 thousand acres, and the latter 5 or 6 familied. Ashing Wolds, lately a waste, have been enclosed and cultivated within the last 6 years.

Character, through termed a forest, is quite have and maked, containing us timber or underwood, nor even the remains, appearances or vestiges of any, nor am I with corminty informed, entire by history or tradition, whether it ever did contain any; it is situated in the North-east of the county, but some unles from its boundary; it contains no deer, nor any thing else to give it the appellation of forest, except barecomens, wildness and makedness type from the terms Wood and Forest applied to it, it is matural to couclude, it must formatly have been covered with timber and underwood; its present gateral appearance is bold and romantic, with a great variety of swells and elevations, ter-



Lander & Ritand M. Hanfords Implements Provers For I Horse for Seals. A of Horses abread 3 For a Paur B C 1411 W Hert

WASTES.

minuting generally in bare and sugged rocks, which form a very picturesque appearance, to a considerable distance in all directions : these rocks are not a gritstone or culcarcous, but a high quartzon (primeral-stone, being a true momtain stone, of the sitrooms order, and curried to a considerable distance in all directions to mend roods ; the forest contains, I believe no other useful mineral yet discovered, except some alste, at or near its boothers.

The rocky precipices of the forest, from their multiler, variety and elevation, have a wild committee and momittain appearance; they are, I believe, the highest grounds in Leicestershire, and probably from 700 to 800 feet above the level of the sea; this mountain appearance schlom commences but at a higher elevation; it is here within the temperate cliquite for corn, grave or plantation, although the air is cold and bleat, having multile but the bare rocks to break off the course of the wands, so afford shelter to the paring traveller.

The soil of this forest is generally a moist gravith loain, in want of diminage in many places; but considerable tracts of sound land are to be found : the whole is worthy of culdivation and improvement, and I am acquainted with large tracts of old enclosed hard of a staple inferior to this, which is expatible of prostneng both equilating outly be planted with number, to its great orthonor of the country, and which usual afford shafter to the adjacent lands; there is no doubt of timber thriting on these precipices, an although the rock comes near the milate, it is full of cresices and interstices tilled with earth, into which the roots of trees would strike for outriment, and where they would find it. The chief projectors, according to Mr. Monk, are the Earl of Stamford, the Earl of Moirs, William Herrick, Esq. of Beaumanor, and a few others; the enclo-

WASTES.

surt* oi it 1' in agritation, and is expected to be soon curried, into effect.

This large waste in its present state is by no means overrun with individue growth; heath and here abound in patches, and inches indicates sout of draininger, but large spaces are covered with a grassy serifice, and sheep and cattle fusi pastores yet Mr. Dakewell, whose modes of thinking wire and and any make of opinion that it was actually a luss to lloss and the providence of theming stock upon it, and that, if out and the last the next torus his cow up'on the forest in the spring, and apother num at ;be sauic tun. week for the Lctp of 1 is care in an enclosure, both being then of the same value, and both being driven to the par-Vet nt Mit had had been of pri. repay expense of keep, and! that tin; difference in sheep would be still greater. I am, h< we her sheep am! young cattle would, if fairly proportions ed, iui; rose there in the courve of a summer, and course-<[U(adv. that it is of some value, suppose Ca. 6d. per acres. but that by eight and cultivation i tento I, or made equally welt lings per acres after the first round of endivation.

The following memoranduna Ashhy July 1797 j for its state in Oclo CHAP. VI. ENCLOBVR]

Ashby Wold a Htte but not *a* th fur/ but for want grasses, of ih % few of ti the iw, auii On

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CHAP.

the whole, of an enferior sort. The inclosure and improvement of land of this description is a public benefit of the first kind, and would reader has productive, which is at present almost useless. Further memorandums on the spot, October 1891; the cultivation is begun before subdivision, land having been let for grops; potatoes have succeeded well, especially after paring and burning, and also common and Swedish turnips, and oats; a small proportion of the Wolds, thus cultivated, but 1 suppose not more than 1-20th of the whole.

$\mathbf{CHA} V. \mathbf{X} \mathbf{H}.$

IMPROVEMENTS.

SECT. 1, - DEAINING.

MR. ELKINGTON'S method of draining was very early adopted in this county, and h' was personally enployed by many] good many bogs about liis residence, very unforcementary submitted for dramming a these lie shewed me, all rendered into sound hand by MI Ettington's drainage. Mr. Horrick was very apprehensive of a spring >ung builted by the drainage while Ii suplies his In the with water's this, however bir, fillington's genius was equal to the dramed the block, but presented the spring; it is sent difficult to describe the manuar this done, to come the tilt. Mr. 11 mek etters voureti me completely master of the subject .- Mr. Elkington bevan liis tin many at the bottom of the fall, from whence pre per (from local circumstances) to intercept the springs. this main drain was often, so soon as the fall admitted, cut for excavation to S or 10 feet deep, and carried on as far as judged necessary, applying the boring tools occasion.lly to its bottom to penetrate the springs. Mr. Elkington considered.

AINING.

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in the product of the second strategy which the second strategy when it protrated into the second strategy which when it protrated into the second strategy which when it protrated into the second strategy which when it pro-

The ! or error of a second second constraint, employed in searching for deal, by boring a deep hole through the different arrow of a to a inches diameter. It is length and at pl< and to any remonable degree, by non-bars conmeted to the angler, and to each other by arrew joints it is wort of by 2 men, who after they have been down one piece into the ground, screw on another length, till they liavt goale their death : the iron berr screwed to the borer, and of which is fitted to the square part of the borer, which screes as a bundle to expert to boring.

Mr. Elkington had, I believe, the merit of being the first who applied this instrument to the purpose of draining land; it is now in many hands. Mr. Wilkes (who was also a coal master) applied it with great spirit to the drainage of Ashby Wolds; brit he, as well as his master in the art of draining, are now no more.

Mr. Elsington was mid to have had a quick and certain method of finding where the springs lay, peculiar to himself; this method was nothing but the natural result of experience and observation. I once speut a day with him on a reference concerning springs: when he naw spontaneous aquatic herbage, he concluded the water was pent in, and forced out there; if a bed of sound land happened to lay below, this he concluded to be a bed of chay pent in the water; by similar deductions he judged of sand, gravel, and rock, and was seldom mistaken. Mr. Elkington generally had

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his drams filled up, except a small part near the discharge; which might be left open : the insterials he preferred for forming the excavation, were two pieces of rock stone edgewise for the sides, and a flat stone across, resting on both as a covering stone, this at least for the main dramo, which it was necessary to keep roomy and open; the dram was then filled up with the materials day ont.

The great merit of Mr. Elkington's system of drainage is, the fewness or small number of drains necessary, especially when the main drain happens to strike into the centre of the cell; it is often proper to wait to try the full effect of the main drain, before proceeding farther with the business, and then to make the secondary necessary communications with the main drain.

Mr. Astley showed me a pince of hand drained without goin; into it upon this system, which is also reported by Mr. Monk, as follows: "Mr. Elkington was employed in draming a piece of land belonging to Mr. Richard Astley, which was separated from his brother's by a small river of deep risulet; Mr. Elkington finding the spring at about 16 feet from the surface, by piving it wint, completely drained both piones." Mr. Elkington had here engaged in draining some land near Latterworth, which he had done by tapping the spring; it was some after found that several wells in the astighbourhood went dry; upon investigating the ranke, it was found to be Mr. Elkington's drainage. Mr. Elkington instead thereby boundwised them to such their wells desper, which, when they had done to helow the level of his discharge, all min well, or hatter than ever again.

Respecting open draine, they are adopted in general only to be the boundary of different properties, being very inconventent, a wrate of land, and frequently want elements a

nn.ess in such situations where they can be laid quite dry, or where under noutid 1 cnco is wished for and the sides being well sloped they in the table of the state of the s they may be preferred a the company or secondary hollow drains are often fi!K i some with the second second heath or other rubbed. but the can only be expected to last a few years a great deal is done with turf, to carry off the surface water and *md sprit: go, which may in wet appropriouly. Some very capital improvements have been made by the former methods, and many also by turf or sod draining, which is effected I wave by the first tart or soil, till the draw a sunk, then the last graft of the drain being at once unrrowed or contracted, leaves a bearing for the soil turned turf downwards, and when filled up leaves the last graft an open or hollow drain: moles are great enemies to this method, by working down below the and in fummer, and

With respect to expenses, the sinking will cost 6d, for every yard in depth; or 2d, for every foot in depth, upon perch, or rod, or rood, of 8 yards in length, and the filling up half as much; to which is to be added intermediate expC:Des, as materials, carriage, beer, Ste. The tarf or sod draining comes the cheapest, and may cost 1s, per rod of 8 yards, beer included, for one yard deep; those filled par-

* In filling up drains with some or pebbles, thrown in promiscoously, the work should be begun at the upper east of the drain, and a course of stone of about 5 or 6 inches thick first thrown in 5 this brings down clean water, and prevents the cavities between the stones, being checked up in factled ; then retarn with another clean or, making in all about 18 inches darp of stone, the drain should be covered with heach to some other taugh subitance, then the clode, and afterwards the soll returned.

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tially with rock or pubbles will cost 9a, per rod or more, on account of carriage and materials; those done with brick or tile will cost the price of those materials and carrage, in addition to the labour as above. Mr. Elkington's main drains of 9 to 10 feet deep, must cost from 5 to 6 shiftings per road, or more, borns; included, that their effect is often full to a distance : with respect to ploughed hard, the draining wanted there is seldom more than partial; in all solls composed of gravel and clay, spring places are and to form by the opping out of wet on the surface, peut back by beds of clay; this it is the appropriate business of hollow draining to cure, by perforating the clay heds.

Bricks are made on purpose for this work. When small drains are wanted, the bricks are hollowed out in the manner aniexed, (No. 1.) and by being placed one upon the other form the drain (or pipe). When larger drains are wanted, the bricks are made in the form, and are placed in the manner, (No. 2.) with a store on the top. The mould pressing on the sides of the bricks keeps them firm in their places. Turf is haid upon the store, with the grass side downwards, and the drain filled up with the mould, &c, that came out of it. These bricks are about nine inches long, and cost 30s, per thousand.

To these may now be added, titles for hollow draining, which bid fair to supersede the use of briel; they are thus constructed, (See PLUE) :--- t inches wide in the hollow, and 4 deep, and 12 inches long; as they can be used for no other purpose, they, I believe, pay no duty; they cast about Mos. per thousand, which had single will be about 16 per rood of 8 yerds; they will do, act on the ground, except in moist places, when bits of tile pieces are put under the m; they are sometimes had double, forming two denies; they may be varied in size and form at pleasare.

Respecting the general exponse and benefit of drainage,



na improvement has peid better, when judicionaly performed. I believe for every £5 properly laid out, the hand will be improved 10s, per acre per annum, and that very much land remains to be drained, which will pay in that proportion. Arable land well drained may be worked upon at almost any time, and the crop will been wet and dry, when before it would been mither. The improvement in grass land is equally apparent, the herbage is improved and rendered wholesome; cattle occupy it with safety and comfort, when before they were liable to be overlaid, and sheep too may graze it with safety : I have no doubt but any unacound piece of grass land, which wants £5 an acre haid out in drainage, may be so improved, at least 10s, per zero per annum.

Mr. Johnson and Mr. Smith do a great deal of hollow draining upon Ashby Wolds. As the wet there is not from aprings, but generally surface scater, detained by a retentive roll, shuflow drains are sufficient. Mr. Smith's are 2 feet 0 inches, which is three spits deep, formed thus (See Plate); and opening or small hollow is left at the bottom, by placing two side stones and a cover; this I think much better than alline up the whole promismonthy; atoms are hold boow above the covering store, and above them coarse back reakes or heath, and then filled up to the surface with earth; the drains thus cost (d) per yard, rooming measure i and a cart load of tone will get to us to yards along the drains bills of the Wolds, which is dug out at (d) per cart load a the whole expense therefore, besides parriage of these shallow drains, is not much over 11d, per yard, rooming measure, and the carringe brings it to a limbe above fid, a ballow drains, is not much over 11d, per yard, rooming measure, and the carringe brings it to a limbe above fid, a ballow drains, is not much over 11d, per yard, rooming measure, and the carringe brings it to a limbe above fid, a ball is come wet places a good many drains are to createry.

StCT. II.—PAlt INC, AND BURNING,

HAS been price and in this county and new liber; rhood, but not generally not to the side generally approved. cupt on wastu lauds, the state state and other multiple which would not easily or quick: them at once int* is the general op; the second burning will be a second burning with a second burning will be a second burning with a second burning will be a second burning with a second burning will be a second burning with a second burnin for two or th[^] after;'* and it app<are restouched to the end of the second state quantifics of vegetable matter must be designted, due presents and driving from the premises by this combestion. bursting cannot, therefore, be advisable on ·Aaring ai any *lai*\ *Me* pui tinie, by pl^ugling, harrowing, and the use of lime; where that cannot be done, it is certainly right to pare off aud burn any rubbish that i must otherwise be destroyed.

Mr. Ainsworth relates an instance of land being exha-isted and very much injured by excessive puring and bu: ning; although it produced two or three good crops, there can be no doubt but fire thus applied must be an excessive stimulant, and all stimulus in the utitural v orid is followed by i proportional debut *Ir. says, " the dimination of soil by this practice is evident. but is in part restored by the atmosphere, as well as by the rabbish hurnt, but in too small a proportion to admit of a speedy repetition of the practice without the uid of manure. Burning cannot add any thing to the soil, but it produces those salts which are not attainable by any other process, and which make the land fertile, being easily soluble, but soon exhausted. Black, moony, deep, rushy land, receives all the heavily of hurnhaiting, without any of its ill consequences, from a too speedy repetition ; consequently.

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sequently, in my opinion, this is the only land adapted to the pratti-c."

Mr. Monk observes, of Mr. Wilkes is the only person that practises burning upon a large scale ; and he, I should suppose, has carried it farther than any man in England. I was informed by his bailiff, that they ploughed the hand eight or ten inches deep, and burnt it with refuse coal-In jtn then pits; by this means, they get a sufficient quantity of ashes from one acre to manure several." I must observe upon this, that Mr. Wilkes certainly madegreat improvement upon a considerable tract of old coelpit land by this treatment, and converted it into valueble. pasture land; but the hurning was necessary to destroy coal-slack and other rubbish, and the soil was added as something for the fire to act upon, and to produce manure for other premises. Mr. Wilkes was provessed of a strong, intelligent, original, and active mind, and whatever he took in hand was conducted with a spirit which overcame all obstacles. I have known him plough a piece of old sedgy turf as deep as the plouth would go, and burn the whole for the heacht of that and other premises, and the experiment has been said to have answered; but the benefit or success of it has not been sufficiently appacent, or curried that conviction, as to induce others to adopt the example. Upon the whole, it will follow, that paring and burning as a practice of local and not of general improvement, and to be used only wall judgment and discretion, under particular discussioners.

Reclaiming conte land, Arthy Wolds, Intely enclosed. The enlituation of this waste was alternpied even before the sub-division had taken place; part of this tract of land having been enclosed in a general way, was offered by the commissioners to the public, in lats, for due year from Lady-day, 1801, for putatoes and other crops, and the

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then high price of corn and other provisions, induced many cuterprising persons to adventure in this temporary cultivation, each paying a reat of about 6s, per acre; and about 100 acres of hind were thus cultivated, for pointoes, cats, and turnips, and some of these crops to be followed with wheat. No manure was used, but the crops forced by paring and burning, which was done of greater or less depth by hand-work, at about 50s, per zero for paring, and 10s, more for burning, in all 40s, per acre.

In this enterprize, the holdest and most successful caltivator was Jourph Wilkes, Esp. of Measham: part of the Wolds adjoining that gentleman's property, he is entimiled to a considerable allotment; and he, with his usual public spirit and enterprize, was desirous of taking time by the forelock, and ongaged 50 acres, which he, in a most spirited and judicious way successfully brought into cultivation, as follows : He first began in April, 1801, with paring and burning ; the workmon were deared to go deep, the deeper the better, and the overlookers ware desired to ottend to and enforce this circumstance particularly; they score followed by labourers or women, who piled the clods in heaps, and when sufficiently dried set them on fire, and bornt them to ashes. When a sufficient quantity of ground had been cleared, Cooke's drill was employed, with its scarifiers, to mark or scrutch the land in parallel right lines, four feet distant ; the heaps of adies were then removed in scattles, or backets, by fabourers or women, and snewed in rows along these right links or scrutches; a team of two or three lances then followed with a plough, and turned a farrow upon these rows of ashes ; women followed with potition sets, which they deposited rather under the furrow, and the plough returning laid another fairow against the former, thus covering the sets; two more furrows, one on each side, wore then laid against the

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ridges; the furrows were ploughed narrow, and thus proceeding, the land was left in two feet ridges, and two feet furrows, with a row of potatoe sets along each ridge, with the boost turi beneath them, and the furrows turned above, the intermediate gutter serving as a drain to carry off superfluous moisture, the ridges and furrows lengths ino following the fail of the land-SEE POTATOES.

I find since, that puring and burning has been very generally and successfully practised in the improvement of Ashby Wolds, the soil being generally a cold c'ay or loam. Mr. Smith, who ma great improver, and has in hand a considerable tract of it, pares and harns for onts, or far turnips, or wheat fallow, with the assistance of lime, and has often raised good crops. Mr. Johnston, who has an entire new farm of £50 acres upon this lately enclosed watte, always begins with paring and burning, which he gets done at \$1.11s. 6d, per acre. It is to be observed, that the waste was only partially covered with furce, heads, sedges, or rushes, a good proportion being graver that. At first he was obliged to procure then from a distance, who had been accustomed to the work, but the neighbouring labourers soon learned the method, and have latterly. fallow for wheat from its original state, but I believe discontinue the practice. Mr. Smith has had some done * at gus, per acre, paring, and is, instante-total coi, per parison so well he puring and thirning; which, therefore,

Dr. Durwin says, in the Phytologia, when day is writed with so much oxygen by fire, to to form a soft or imperfect brick, it possesses the power of promoting the gene-

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ration of the nitrons acid in certain chuations, and may powerfully promote regetation ; and I imagine that the use of paring acci burning the curf of some matthe chelosed commons depends on this chromatance : that is, that!he heat emitted from the burning regetable fibres, unites onygen with the clay; which latter forms more than half the slices of thef, as they are day from the ground. [n other respects, the paron; and burning of greas grounds would certainly be a wasteful procedure, as much carbon is converted into carbonic acid, and dispersed with the uninflamed snoke or soot, and areding left but the vegetable arbos.

He says, whatever material has constituted a part of vegetables, may again constitute a part of them, and that with more expedition, if it can be used without being decomposed into its primary elements, and that to burn a hair or a straw, diminishes the sum of matter fit for quick mitrition.

SECT. 111,-MANUETNG.

Tux principal manures used in this, as in the other inland counties devoid of chalk, are muck, lime, soot, ashes, and composts, consisting of all kinds of decaying or patrifying substances, mixed op with carth, daug, or lime : marl is not to my knowledge used, for though th county alsounds with it, the natural soil is sufficiently deep and loamy, and it would not pay the expense to add what it does not watt. There is no chalk in the county or its neighbourbood.

The term muck, though seemingly an uncouth and provincial, expression, is nevertheless a beceasiry one, as denoting

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denoting an idea distinct and different from what is meant by dong : farm yard ouck, denotes a compast, formed of the dung of domestic animals, mixed with refuse fodder, straw, littor, unite, rain water, and every other spare orticle that comes in contact, the whole mixed and fermented together; town muck includes the same articles, with the addition of the sweepings of streets, yards, privies, and ashes from the different fires employed in culinary and other uses; this last having a less proportion of streaw and fitter than that formed in farm yords, and a greater proportion of dung, and patrifying anistences, uccasions its superior richness.

Mr. Monk mays, " in my rides I observed many of the farmers spreading their dong out of wagons, and was informed, they could spread it more even by this method " but the time reason is start it is to university a wagon holding the greater quantity is used; and to save the trouble of again shifting it, is thrown out of the wagon in small heaps; the wagon occasionall, moving, and a labourer attending, apreads it after the wagon. - Mr. Monk states, that stable dang a few years ago was to be: had in Leicester at 1s. fid. per wagon land; and that a gentleman had contracted with two or three inn-keepers in Leicester, for all their dung for three years, at that price ; by means of which, and drainage, he had improved an estate from £40 to £150 per annum, and another from £55 to more than £100 per annum; but from the Ich. or 11s, the wayou load.

Mr. Monk observes, " in the practice of the best farmers, doing of all kinds that can be procured is used, as well as composes of doing and lines. The child manoring is upon mumip failows, 10 or 12 cart louds of farm yard doing par acre, in carts drawn by three horses," and

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which heaped will contain about a cubic yard and a laif of dong, or about 50 bushels, which, according to the state it is in, may weigh from 15 hundred to i ton v.eight. Most people prefer the dury in a rotten state, an(1 in that state it is doubtless best for turnips; if it be drawn into at heap in the field, or turned over in the farm-yard, one month will give it a sufficient firmentation and decay to by on the turnip fallow, particularly where a good stock of le are kept to auturate it sufficiently with dang. The fold yard manure is generally haid on the turnip fallow, and on the clovers. The dang of cauta is not sufficient to exaporate on pastures, but gathered in heaps for use by the best firmers.

" Urine .- Mr. Monk complains of want of due attention

 In the Philosophical Transactions for 1806, por 2, is given the cheminal analysis of cow's urine, by Mr. Brande, of Arlington-street, which populate as follows:

In 190 marts.

Water - : Prosphat of line Mariat of line - -Mariat of anymous - -Sulphat of pot-ash Carbonat of pot-ash Carbonat of ammotia Uzea

If the phosphate, mutiate, sulphat, and carbonat could be procured cheap, an i soluble to mater, might not an artificial using he prepared. for entorating composes and doughills? Any chemist who could bring this about, might probably render an essential service to agriculture.

The loss he attributes to animal motter, albumen and gelatine.

in preserving the urine of cattle; but; I believe, it will generally be found to be absorbed by the straw and litter of the cattle, and counsequently its contents are in the saturated doughill of the farm yard, and that little of it is jort.

Mr. Wilkes was a great advocate for hying farm-yard dung on the land, long and fresh; in which state he observed, it would go farther than in any other way; in that state, he said, the land was sure to have it all, and his expression was, " let the land and the muck artificit." He kept a number of working horses constantly in the stable except when at work, and fed them with cut grass, returning the muck they made to the land in a raw state, together with the straw and litter as far as it was wetted by their urine. This he assured me would not only keep the familin good heart, but improve it, the straw and littlery part of the muck soon disappearing, smothered by the grass. Some farmers, on strong land fallows, prefer laying on the muck loog and tresh, and in that state ploughing it in; but for turnips, I believe, it is generally or universally preferred properly rotted and termented; but there can be no doubt but'by laying too long, and an over fermentation, the manore must be very much wasted; but I heard of so comparative experiments on this subject, though they appear not difficult to make.

Respecting the manning of grass land, Mr. Ainsworth says, doing or compost should be laid on mendow hand immediately after the hay is carried off; for as at dust time the ground is generally the driest of suy time of the year, carting on it will not cut the turif; C. there is the limit keep to destroy; and S. it insures a good aftermath; and the winter rains, &c. will wash all the mature into the soil, so that it will receive the whole benefit of the dressing.

Pasture land may be manored as soon as the first frost sets in, as it is carled then with the least trouble, and ut a

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time when the farmer has the least to do; and as soon as it is thawed, it should be well dispersed by spreading.

I have just found a memorandum of Mr. Wilken's, wherein he was, "I am now cutting eddish (aftermath grass) daily with a scythe, and carrying it to the staMe to feed horses, and think the extra labour much more than compensated, by the food going farther. The durip of nuick made by these horses is kypt constantly carrying to the hare grass hand, as soon as there is a cart: load or hvis, without undergoing the least formentation, just separating from it the dry straw to litter over again. The wet straw is taken with the daug and had upon the land, where it soon penetrates, without leaving any lining to rake off." Mr. Wilkes thought that muck lost one-third of its strength and value by being suffered to heat and ferment; and that this heating and fermentation should, therefore, take place Li the ground itself, and, at he says, " let the muck and ground manage it," and in the act of beating and fermentation no particle of fertilizing quality will be lost.

Line is used in considerable quantities, both to mix up in compost, and to key on turnip and other fallows; 10 or 10 quarters per acre are generally used, and haid quick on the land after slocking, and baryowed into the pulverized soil, or sometimes harrowed in with the seed of turnips or grain.

When lime is fetched any considerable time before it is wanted to be used, (as is the case when the teams are at leisure), it is thrown up in ridges, and covered, or thatched, to preserve it from the weather; and also fenced round to keep it from being trod by cattle.

The limes used in Leicestershire are principally those of Firedon, Barrow, and Ticknel; the two former raised in the county, the latter in Derbyshire.

Mr. Mank abserves, " Bredin lime is not in high ettr-

TILITION

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ion for the farmers use; they exclude it is too strong, and on account of its great strength are affect or use the Ticknul lime they approve, because they may lay on a larger quantity without fear of unjurner the land. The Bredon lime was then (1704) 16d, per quanter; it is now C1817) 2s per quarter; and the Ticknal somewhat dearer, five quarters weighing a too. Builders prefer the Bredon for their use. Becrow lime is match used, both for annuare and huilding, and is porticularly famous for water-works, for which, it is carried to various parts of the bardness of stone. Another the stratum of this limestone are acany curious fossil substances.

Dr. Darwin has observed (Phytologis), there are two kinds of limestone, calcureous and megacanary the former most common, promotes vegetation : the latter found at Bredon, Leicestershire, and chewhere, poisonous to vegetation; it contains two parts megacains earth, and three calcureous. Norwithstanding all this, it is still used for menure. Mr. Throaby, Lite town-clerk of Leicester, who iw the county well, says, Bredon, Barrow, and Tieland lime are used for manare, 40 load where one was 30 years ago: but time has not been used here for monure to any other way than burnt to a cals, and släcked: broken or pointied limestone has not been used.

Respecting mad, Mr. Mont's observation agrees with mine, that it is very little used. It is allowed to be good for corn, but it is the general optisms, that land after maring will not torf again kindly. It has been used to for m a compose for planting fruit trees in, on a gravely soil, but with no great success.

Gypnum, or alabaster, being found in plenty in Derbyshire, near this county, has been tried powdered as a topdressing, by several gentlement and farmers for various

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crops,

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crops, as well as upon grass land; but the general opinion being, that no improvement was upparent, it has filled into angle cl. The Leisester Agriculture Society in anj year upo offered premiums for ascertaining its utilit, but its merit has not been established. Mr. Weston, their then seer-tary, hapt it for tale at 2s, tid, per hushel; and a chim has been rande for their premium for using it against other manures, but the chamanic was not able to prove its utility, so as to be entitled to the premium.

Composts are made in considerable quantities from the scouring of ditches, scraping of roads, and other soil or mudexised with dung or lime ; this being turned over till mellow, makes an excellent top-dressing for grass land, and is very commondable management. Mr. Monk states, Mr. Lynes tried an experiment with bones ground fine against dung, upon a piece of clover; the bones evidently the best mis-Mr. Paget recommends, instead of heing at the nun which will soon reduce them to powder. Stup or coal ashes are laid upon rough pasture land, where they answer well. Soot is principally used as a top-dressing upon tunipy, or upon wheat in the spring, where it will very much I once and invigorate the wheat crop, provided it be clean from words, otherwise the words will take their share of the manure, and parhups grow faster than the wheat. In short, all the manure of the county is used speciesfully upon the grass or tillage hand.

Green crops.---No green crops are hore plonghed in formanure, nor any sown but what are proper to be consumed by cattle, or some kind of live stock. Verches are too highly prized for this purpose, to be plonghed in a well as clover; and I have never stea my back-wheat growing in the county, except a little at fourd Monu's, to entire the plansmits, and for poolity--

Sout.-Mr. Grahams, at Queeniburough, informed that he often uses soot as a top-dressing upon his wheat in March, and that it always answers best when the wheat plant is thick on the ground, otherwise it is apt to force weeds in the vacant places.

Further on line .- The advantage of using lime upon sively apparent, and nothing has been done there to advantage without it. Mr. ingle, of Ashby, assured me, that wheat he was employed to value there upon some occasion was, after paring, burning, and fallow, only worth 25 101. per acre; but after paring, burning, and fallow, with ais, tons of hime per acro, in the same field and season, and laud the same, it was worth will 10c. per acre. Smith, who is a great improver there finds, that to pute and burn lime and fallow, with plenty of drains, is the that he can do nothing to advantage writiout line 1 with parups with another wagon load of time per acre; and seeds sown with the barley: he shewed me a barley stubble, that with hime had produced a crop of G2 bushels per acre, and a part not limed only it bushels; and the souds in the same proportion, without any known difference in the

As every source of information respecting manuse is of great importance, I shall make a few abstracts on that subject from Darwin's Phytologia, which is the more applicable, as his observations were made in or near this county; his residence at Darby bring within a few miles or its borders.

He says, line destroys the cohesion of deal regetable, fibres, and reduces then to earth 1 a mixture of huse with

cak bark, after the tanner has done with it, will in two or three months reduce it to a fine black earth, which afitself would take as many years's recent vegetables had in longs, and stratified with quick line, are quickly decomposed even in a few days.

Line is advantageous to sandy land, because it continues , for many months to attract moisture from the air above, and from the earth beneath; which is absorbed by the lymphatic roots of vegetables; applied to clay it makes them less collerive, and renders them more easily penetrable by venetable fibres; also, in composts it absorbs the acids, prevents their exhibition, and produces calcurcous curths, and destroys worms, smalls, and insects; has the least good effect on calcaredes soils, but even there has greatly improved grain land us a top-dressing. Wet land is improper for liming till previously drained, otherwise the lime is said to coalesce with the wet earth into mortar, and become too hard for promoting vegetation. Lime forwards the ripening of grain, by converting its vegetable which has been refused by cattle year after year; it occaarous it to be afterwards graned close ; he supposes it accusions sugar in its joints, and less acidity in all its

Line containing mangamene, is capable of setting under water, as is the case with the dark coloured or blas fimes. He says, a good deal of the hand on the banks of the Trent, especially in that part of Derbyshire adjoining Leicestershire; contains vitriol of iron; here he advises to sow on grass hand, 1 a few precks per acre of powdered gypsum; and 2, twice or three as much Bredon lime : the magnesian earth, he says, would unite with the vitriolic acid, and form other or lime.

Compouts .-- Common weeds, doc's routs, cabhage stalks,

MANULING.

and roots of couch grass, should be mixed with quick line; the same should be done with leaves falling in automa on grass lanch; will do may be easily collected, and especially those from orchards, hedges, and gooseberry trees, that bave been infested with enterpillars, as the eggs of a future race of insects are frequently deposited on these leaves, and batched on or beneath the soil the easung spring ; these may thus be converted into excellent manner, instead of prosing vermin ; and by thus expessing the roots and tops of weeds to formentation, their vegetative powers would be destroyed.

Water plants, also, in many situations growing in great plenty, as the *typha*, cat's-tail; *butamus*, flowering-rush; *nymphase*, water-filly; *cliena*, water-plantain; with many other aquatics, might by mowing twice a year, and mixing with quick lime, produce a deal of excellent manure.

Whatever, he says, has composed a part of a vegetable or animal, may again, after its chemical solution, become a part of another vegetable or animal; such is the general transmigration, he supposes, that the continual growth and dec::y of animal and vegetable matter, iticituates the quantit-, of such matter, and consequently, that all populous and well cultivated comptries may keep increasing in fertility.

Soft efflorescent bricks from old houses contain nitre, and are known powerfully to assist vegetation, when pulverized and mixed with the soil; he, therefore, supposes that where coal and day abound, day half burnt would be a profitable manner; supposes salt a manure on day soils only, and gives chemical reasons. Where acid or shuminous days abound, the vegetation of fruit trees, so well as herbaceous plants, is supposed to be checked; dim may be corrected in gardens by somp-suds, or wood ashes; and up.)ii a target scale in fields or orchards, by time, and par-

HANDRING

ticularly by Bredon lime; or by sempings from roads repaired with limestope. He says, washing of boilers, milkpans, and dialies, as well as sopp-sude, are manure of the rlost pro.herive kinds and should never pass into a com-110' sewer, but into the garden or straw and

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Grouv,d homes, and chopped rags, have been tried and found to answer; and he advises fariher trials of triturated alabaster, limestone, or soft bricks, as well as iron other, masganese, and calamy, in counties where they abound; which, he thinks, might well repuy the labour, after the proper quantity had been ascertained by experiment.

He thinks doughills should be kept moist in summer, to encourage the increase of increase, which curich the mass; says, putrified fish mixed with earth make a rich compost.

Pent is recommended as an inestimable treasure of manuj's to land in its vicinity, either with or without the addition of lime; but I have some doubts whether pent in its raw state would be of much service to any kind of land. Peut ashes is, doubtless, good manure, but burning it is a great waste, as Lord Dundonald adjuits it looses 19 parts out of lime : he recommends to mix fresh slacked time with five or six times its weight of peat, in a moderately humid and not too dry a state ; which, he says, would make an eacellent top-dressing for pasture land. This might be well worthy of trial where peat abounds; or if peat were mixed plentifully with quick lime, and the heup covered over with sand or carth, the amoke arming might be absorbed. He thinks quick line should never be musich with during theorem recommended by some, as it occasions a waste of some of its most valuable junces by evaporation.

Dr. Darwin thinks manure on clay failows, and for potatoes, should be laid on not too much reduced ; and that daughills should be covered, as the formentation advances,


INDIGATION.

with soil, or something to absorb and retain the fluid, or gaseous part of the manure. That manures ploughed or drig in should be laid on but a short time before sowing or planting the crop; that one great advantage of the drill busbandry consists in using the manure in the drills only, whereby three-fourths of it may be saved; that were a linxuriant crop is immediately wanted to be forced, it is best to manure from a heap towards the end of the putpefactive process, it being them to its most active state; that top-dressings should be had >n in carly spring, and the manure should be nearly in a pulverized state; that cow and horse dong should be weekly gathered From pastures, and laid in heaps for compost, till it becomes less tenacions, otherwise most of it is lost by evaporation.

He says it is erroneous to suppose, that frost meliorates the soil, or is solutory to human life, and that the bills of mortality prove the contrasy; and supposes snow much more solutory to vegetation; frost, however, destroys the have of intects in ploughed lands, and is so far kindly to the next summer's produce.

The must of pits, pounds and pools is well known to be a good manure, but is often full of the living fibres, and seeds of lakewend, and other aquatic plants, which should either be destroyed by mixing with line, or by turning over till the vegetation the exhausted.

SECT. IV. --- IRRIGATION,

On the improvement of grass land by watering, may be ranked with the first improvements in British Agriculture, and the intelligent and active hand occupiers of this county, have long been alive to the advantages derived from

JERIGATION.

it, and in consequence hcen in the practicsuch li.me individually within theirpowei; the imjuponly,graveIIjjlyad'ill $p \ll jt$ down after si,but upiit has not hn found to

The irrigation n this could divider the irrigation n this could divider lie Soar in the irrigation n the second divider ie Soar in the second divider ept in those and a • the channels of our rivulets, and m; y of Ui to i. himi in λ (

an*J origin natural meadov.s, rendered so $\langle n \rangle$ interested, more standing units of i_n ing on i_n ing on i_n where i_n i_n i

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IRRIGATION.

extend the greadily of water mendow, as a source for supporting a larger live stock, and raising more manues for mapped ing tilt? $u_j > hand$, by artificial irrigation.

Mr. Monk observes, " no county abounds more with rivulets and small streams, nor is there any where the land hes with a more proper and finer descent, so as to render a very great quantity capable of that improvement, provided the different occupiers would agree to have floating drains carried into continuation over such of their respective lands as would admit of it, for their mutual bruefit. Waternulls are a very great hundrance to the extension and general adoption of this improvement. Very little of the land is Watered on the side of the county towards Melton Mowbray. It is chiefly confined to the northern part, and is Pin grotind very Mr. Willes, Mr. Bakewell, Mr. Paget, Mr. Astley, Mr. Monr, and few others, water a great quantity of their lund, and have derived great bencht from it. The method varies according to situation and circumstances: Mr. Wilkes and Mr. Bakewell water about 200 acres each, in a very musterly manner. The whole of Mr. !lekewell's is supplied by a causi which lie has cut, a mile and a quarter in length, and is still extending it, intending to carry it as far as possible through the estate. He lias several patches which are last unwatered, to shew the improvement. The difference of verdure is astonishing; the pieces watered had more grass on them, in the proportion of ten to one, than the parts unwatered, and were of a fine green, while the parts unwatered were of a sickly sellow. Mr. Bakewell is a great advocate for watering, and thinks it one of the first improvements : the land a joining Mr. Bakewell's is not watered, and it is in the same state that Mr. Bakeweil's was farmerly, both equally good and capable ni ill e same improvement. land is fall of coarse your grass, with a great quantity of

ISBIGATION.

cultivation, and not a rush can 1)Mr. Bakewellsever manure;s. Hrall1, ami iit to tli-i stalls*or > \land \land \land \checkmark \land \checkmark whkh means it goes much fuih it is ihethe grass 4 tin'ber is allowed to continueonabout four orit; he

Ti furrow. 2. The m. In the ri id furrow and h laid out in broad ridges wilh intervening rk or ihe plou; Ibypii-

But the catch-water system is much more common, in which the land is taken in its niilural state or form, and the water drawn from as far up the stream as may be, along a main floating gutter, cut nearly upon an exact level, from this the water is let either through open cuts, or by tranks and paddles into smaller floating gutters, cut also upon an exact level, from whence it flows over the lower side of such gutter upon the land, and is again collected and spread by floating gutters on a lower level, and so on to the bottom of the land, when it is discharged into the water course.

Sometimes both these systems may be combined ac-

IRRIGATION

COT to local energy s. I have and neighbourly tr. Astley, and ount, I huve them all in meludea both I he abo uis.

A, with a p mill; A C, t¹ nifl or , having a fall of> sui 1), a floating waterict level. i, from I) to < 1 one mile and a qua) and also became tenant I id of 11

be main drain I un\\d I ic stream, and kept well el< floods • 4 yard

The floating gutter, parallel to and near the main carrier, should be but small, 2 or 3 feet wide, and a spade graft deep will generally be sufficient; this gutter must communicate with the main carrier, by a sufficient minber of paddles to open and close at pleasure. These floating gutters, as well as the catch-water gutters, must be upon an exact level to discharge the water regularly.

The cross drains marked a, a, a, may be open or hollow at pleasure; they must be carried under the catch-waterguitters, by wooden trunks or small aqueducts of any dara-

lliRIGAT]

Lie material, ami discharge into tit- drain, but (o b» paddled up ut pleasure,, wb lundiaund n.

At a, b, c, d, and c, art 11 trunks and paddles, to let tin r into the upi flouting gutter near it, from whence t! to the Ian ion of a trusty labourer will be i to regulate lh< operati gutters, by ponding up or letting off lh .r, according to local circuriistan-

In the ridge and funder systemi, a h. addand crossways must confiect the ridges at their upper end, and a small fiont-Jong Illis headland, communicate with the n; d and e; the ridge* must be formed in the direction u of the fall of the land, which will be perper. iv, or not to the main carrier ; between the furrows, for dr:; discharging discharging id in a dependent to ronder the i the better, for 15 to 20 yards wide, is not too much,;ccording to local circumstances, and when the pround is long cross carriers or buildlands to connect the ridgeSi must be repeated it proper dis; news; in the contre of each ridge is a fun ow for receiving the wati fruni Iho headland; these suge forces must have st >ps for turning the water sideways over the lar:d, which stora may be of earth or clods, and must be moved occasionally by a person attending : when the ground is long, the water may be ponded up into the floating gatter of the second headlands Idle at f, and distributed over lite ridges below, and finally discharged at c ; these drains and floating gutters will require cleansing every, or at least every other year, and when under irrigation, attention is necessary to conduct the business in the best manuer, otherwise, by neglect more harm may be done than good ;

but

IRRIGATION.

 but With due attention, the

it cotin.

acknowledged.

The cleansing of ti

he trouble, by

post A

in the for wai in i ecotiii in the for wai in i ecotiii in the interval of the

It must strike every one, who views the annexed sketch, how much tl, and a new of a few acres at the head of the valle, above A, which might be drawn down at piceance, and apply where regularly and evalentically, am employ the regular attendance of a proper person of stated bit how I his meaning, and do thi, to ach stated and tand o spece, whose conventioned and local situation and tand o spece, whose conventioned and local situation is a second action of a proper person of my considerable are constanted purposely for arigeture.

It ; also evident from the sketch, that the land on the other side, the main drain to A B, may be watered with equal convenience with that described, the fall from thence to the main drain, being assumed the same as on the other side, also, that all the land further down the safley, and below the level of the main carriers may have the benefit of irrigation, as far as the water will reach.

In the instance at Dishley, the main carrier, in its whole

IRREGATION.

length, is drawn above the level of 200 seres of laud be* to greater purt of which can be not always $b \leq 1 \leq c \leq 1$ source; places the land submitted into a variety of a special >m imalUr second ry iloat ne gallers must be cut adapte J to the local cire 11 natances of the case; the main carrier before nan efficiently large for n; vighting a multi soal and has been used for that purpose, and as it goes along the lower end of several of the arable pieces, is used somelimes for conveying turnips to the home sheds, for which purpose nothing m<re is become hau tlin whe them *loo-it-*. into the carrier, when they are taken home by the stream ready washod and disebarg< from whence the water may be drawn at pleasure ; this raerrole, whitefa is boardeti cound, is also used occasionally for a shipp wash, with a convenient place for them to asrl after

The proof spots, surrounded by a small drain to keep of the water and shew the land in its natural state, which are here constructed, I was assured, shewed a great contrast in spring with the watered ground; but in autumn, whei) I viewed them, less difference was observable.

Mr. Astley, whose irrigation extends to 100 acres or more, is principally upon the cateli-water system : the water is drawn from the natural stream along main floating gutters, and thence distributed and spread upon the land below, by parallel level floating gutters.

The best method of spreading the water over-land must depend upon situation, aspect, and local circumstances, in all cases, upon the catch water systems a localling instrument will be necessary, and a spirit level, with a telescope, is much the best; the attendance of a trusty person to spread the water properly, and change it about in rotation is also requisite, and the whole business much perfected,

IRRIGATION.

il a reservoir at the head of the land be at command, to be drawn down at pleasure; the improvement by watering upon proper soils, first laid dry, and the water judiciously applied, is as great as that by drainage, and may be expected to pay ten per cent, upon any money properly I HI d out; but effectual draining, and laying the land dry should always precede this improvement."

Upon cool land, consisting of clay, I have known many cautious persons, express their doubts of the utility of watering, and abstain from the practice, as is the case at Queenibormigh (SEE ENCLOSURES), where a pcremiial stream runs through the parish without being used ; but I have no doubt but if it were properly spread over the gi. htnd, it would enable it to mow from one to two ton per acre annually with other manure; on light hind, or gravelly sound soil, it is 1 believe unobjectionable, and universally approved.

Mr Ainaworth says, it was observed by Mr. Bakewell, that pure spring water coming immediately from its source, and without washing any lands in its progress, not only enriches the land it passes over, but after several meadows 1; been watered with it, it still contains nearly the same fertilizing qualities as at first; and I have heard Mr. B. well in conversation state, that he considered the inatui dej terally by r λ mere capuu tuuni, of no value; and that owing to otli the matter too far, as turbid I osit fertile ?na pkl/ may also

Mr. Mar a a vt clear water, the • wliich contained four-i mrable matter

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IRRIGATION-.

may be in solution, or suspended in clear water; the fertility of the waters of this spur: so well known, that farmers near \ ady to quarrel who should have it. SEE UIS MINIIIS IN TH 'LAND COUNTIES.

Mr. Ainswortb ilius accounts for the improvement of grass hind by found to be a conducof phlogistic, that Kind of air in great plenty, to the mouths or p grasses, which absorb a greater quantity from ti er ilian they could from ihe air, as being so near the surface of the earth; for after a certain number of days, they are sufficiently supplied with that kind of food, and tlieu it *b** hurtful to continu r; the is over dressing land with , or an animal, or a man rxjnmch I Whether this is decisive, 1 shall to superior judgment. SGE APPEKDIX, •DDF PLAN i

Dr. Darwin, in Phy to login, states the advantages of watering land to consist m, 1. Common i are enriched, and morassy oi de* from tf ster or the ice. 3. The ground is rendered move easily penetrable by tby* roots ui* gr; ss. 4. The early nay be eaten off, ami a fresh watering will insure a good crop of liay After the hay is taken off, another flooding will insure a good aftermath; upon tlie \vh ,ng of meado\ can b a mo improvement; it robs no dunghill, but raises one for the benefit of the other Ian

Win itering is chiefly practiced ; summer watering has been objected to, on account of it in tendency to produce the rot in sheep. Upon my having observed that such land may be grazed by cattle, 1 iiiswered that cattle also, would after watering, tread aud poach, and thus

IERIGATION.

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tint the land, more than it nefited by watering; this is more specious and fen the sake of keeping up the ar-sument, than solid reasoning; if land were either mowed or grazed bare in summer, and then watered a fev. i oft", ii dry enough in sum sty ram, which would also re-mmvei! for hay, or t aten green in the **but** water in summer is not generally it. sufficient quantity.

As spring food a ;ecp, or winter food, it is the general opinion of the most attentive and 1" ed farmers^ lat water meadows in:; ifely grazed wi: ;», from the first frost, till 'warm west er commences in April. J rd no other reasons for lliis from farmers, but that they had learnt it by experience er information ;-^that watered land will give sheep the rot **summer** floods is known, and is ui dly owing to tlie presence of the fle.uk worm (fasciola iea) or its larvae, on the pasture herbage, left there I water in warm weather. SEE **BISTBMPERS OV SIIEEP.**

good er meadow, may be grazed to the middle of April, and being then well v dressed over, cleared of obstructions, and the fences repaired, will mow a ton and half of hay per acre in July J when the hay is cleared oil, the watering should be repeated, and a good aftermath may be expected by the end of August; but it is but seldom that water is thus at command* ihe greatest proportion of such meadows can only watered in time of Hoods.

rent of uater meadows maybe from i www. pounds per acre, according to nature, quality, situation, command

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IRRIGATION.

command of water, and security from floods ; those of the higher price are near towns, and rented for the sake of bay and convenience, I believe few or no modern formations of ridge and furrow arc made or making, the use of spirit levels is now so well understood, that advantage can he taken of natural situation, and water conducted any where beneath its upper level, by cheaper means at pleasure.

The means of extending water meadows must be by abolishing petty and useless mills), and drawing the water further along the level of their upper pond. 1 believe one of the greatest improvements to be made in this and most **other** counties, would be by a general survey of the valleys by a proper engineer, arid appointing commissioners to extend drainage and watering generally, for the benefit and at the expense of the land owners, with powers to purchase and abolish **petty** mills, having done less than a specified quantity of **business**, upon the average of a stated number of years. Sn& EMBANKMENTS.

J have always supposed, that in all Acts of Enclosure, considerable attention ought to be paid to ihe rivulets, the vallies, and thr. land capable of being waterrd, by the **surveyor** and commissioners ; and that reservoirs ought to be formed at the head of such vallies, and carriers, or floating gutters traced along ihe line of level, from a few **feet** bulow the surface of such reservoir; such head floating gutter to form the line of fence, between the arable and incadow land, by this means the upper water or" the reservoir would always be in store, and at command for irrigation. X never knew of this attention being paid, but it ought never to be neglected. The proper clauses can only be **Iran** hose concernedj according to the local cir-

Respecting

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IBRIGATION.

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Respecting watering iand from navigable canals, I am of opinion, that the interests of canal proprietors, and land owners are so distinct, that they would never be brought to agree to their mutual advantage, and so as to give the land owners any command of ihe canal water. The canal proprietors would seldom be willing to part with wuier, when the hind owner wanted it; all that can be done might be this, the flood wears that discharge the waste water of the canal into the ancient water course, might be constructed some inches lower in level than the lock wears, which discharge it into the lock ponds below ; the water which passes the lock wears runs down the canal; that which passes the flood wears goes to the ancient water course and the land owner; these flood wears might be constructed in proper places, where reservoirs could be formed for watering land, and would contain only the superfluous water of the canal. I have seen many situa» tions where this might be done to advantage; but to mate it apply, the land owners should get a clause in the Canal Act to compel the canal proprietors to construct flood wear >ecified places, of stated lengths, with sufficient openings to their canal, and a stated number of inches lower in lerel than their lock wears, as their project is often a forcible entry upou the property of others.

I have great doubts whether the raising of water by machinery for the improvement of land would often answer; in locally advantageous situations it may, but the expense and wear and tear of machinery is considerable, and the natural flow of the water \ddagger much more to be desired; one instance of the kiud however occurs in the county at Queem**borougb.**—SKE CHAP. VJ. ENCLOSING.

1 have olun thought, that if sea-water should on

P 2

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trial be found at) improver of land, the place to erect a steam engine for irrigation, would be on a cliff* iiear the sea, from \yhence water might be sent for miles into the country, and conveyed over large tract? of land.

CHAP.

P.24 EMBANKING. Leicocter & Rutland. Sniff .tiippvjinf tfj/trAtt'ttt'/n/i/i . and the out to and Bak. b Beach Fig. 2. Section Scale 1 Inch to a Chain. B

CHAP. XIII.

EMBANKMENTS

ONNECTED with the improvements of our vallk tod low land, is the embanking of them from external waters, tojsecure them from the damage, depredation, and nun, that may be occasioned by **inundation**. Leicestershire as an inland county, is secure from the sea; its rivers (excepting the Trent) are of a minor or secondary class, it has no bogs or fens of any **considerable** extent, but is liable in common, with other similar counties, tosusts injury from the overflow of its livers, in floods occasioned by excessive rains, or the melting of 6iio\>

I did **not** meet with any public or private work in il county, having for its object the securing of meadow 1 from floods; but as the Board has proposed this as a subject, and the writer has had some experience in it₂ lie will just treat of it shortly, in a gen 1

The water of mossian is a liable to overflow its U r excessive runt ther, and if this happen mowing grass is growing on the land, such greatly injured by being fouled with mud, oua mutter; is very difficult to i fid of little value bay when mown ; if such flood happen

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EMBA ;'K IENTS.

often the ease, the damage is stilt greater, the hay is often totally ruined, ami **sometimes** large quantities of it floated away. I know a vail* y of rich meadow land in **anothei county**, where this was expected to be the case on an average, once in three years, and the occupiers provided accordingly, by **keeping** a **good** stock of hay before **band**, when they had the opportunity from a dry summer and good hay harvest; but this valley is now embanked and drained.

On the opposite side is given an ideal sketch of a work of this kind, which in ay be applied according to circu instances. A B is a natural river flowing down a valley B, with •', or brook on each side fulling into h; b, b, h, &c. embankments on each side l!ie river and up the brooks of th<; same level, supj> Mr and half foot high, f, f, &c.; floating gutters from the brooks, with floodgates below to drive the brook w»1 for floating the upper land on each side the valley ; drains ry be cut down the valley on either side the ntents, with acquedueta under the-brooks, if rge the drainage water into the lowest attainable -.I.

i²ig- 2. Section of the river and embankments: suppost- the channel of the river to be a perch, or five **aiw** ide, and four feet six indies **deep**, and **the** em-;sto be **'da** asunder, and four **feet six** inches high, then the space between the **embankments** will be equal to four times the channel of the river, or the river when channel full, will have room to expand **itself** into five times that space, before it **overflows** these **embankments**; this in most cases would be sufficient to **confine** summer Hoods; the **land** between the **embankments and** *doe* river will be of the same value ;is before fwr grazing, when th< water is down,, on which **account the banks** ma;. constructed

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Constructed farther from the stream, in those cases where it is subject to greater floods.

The materials for the embankments, may in all cases be pared down from the sides of the river, which might be rendered beneficial in enlarging anil regulating the channel of the stream, and where outside open drains are wanted, as is often the case, the spuil of them may be used for the same purpose, if near enough ; these embankments should be turfed up the slopes, and on the top, by which means surface ground is gained instead of lost; they may be constructed upon this scale at 2s. per yard running measure; and supposing in the adjoining sketch, the length and breadth of the valley, as from the scale to be 9.5 chains by 12 that contains 30 acres, the length of embankments does not exceed IjOO yards at Cs. which is .£150, or £5 per acre, for securing hay from floods; this secui nerally be worth -£1 per acre per annum, and will consequently be worth 20 per cent, per annum upon the money expended.

Every work of this kind, and where different interests are concerned, must of course be left to a commissioner, to award to each one his due share of expenses aa well as benefits; in this the distribution of waters for floating should be duly atteuded to, particularly from the **collateral streams**; and each one ought to be at liberty at all **times,** injuring none other, to take in **wftter** through the embankments in floods, for the purpose of soaking or floating his land at pleasure, by means of trunks and paddles, floodgates, sluices, or any other means, not injuring the public. These banks are not liable to be out of repair from the effect of great floods, the water then passing over them as gently and gradually as over the level surface.

CHAP. XI

LIVE STOCK.

SECT. I.—CATTLE.

natural breed of cattle in Leice..: the long horn; and the judgment, attention, and perseverance that has been displayed, hi improving to a veiy high pitch of perfection this species, and more particularly the sheep, and also every species of live stock, by persons of ability, consideration, and character, has for many yei back formed, and docs now constitute the principal distinguishing feature or characteristic of the county. In their corn cultivation, they are perhaps but liulc above inedioin that of green crops, as more coi i with J. Stock, they rank higher; their pastures and grass land, aided by a fertile soil, are so managed as to be productive, though uot always neat or agreeably picturesque; but in their live stock', takeu generally, they have surpassed every other county in the kingdom, mid 1 suppose every country in the universe.

The spirit of emulation for improving every kind of live stock, and which is now *so* widely spread, was first raised **by Mr. Robert** Bakewdl, **of XKshley Farm,** near Loughborough, in this county, who was a f great euterprize, and of sound and acute judgment, and **he** entered upon

apon business with many advantages i his father had long been in procession of a small freehold estate, and the wallconditioned farm of Dinkley, held on icase, at an easy rent; and through the whole of a long life he maintained the character of a respectable and apright man, and of being the most skilling granier in that part of the country. The late Robert Bakewell was bred to his father's business, and his early genins for selecting and improving stock was encouraged by his father, beyond all pacified, and without fimitation; and it may be truly said, without partiality, that he has done more than any other man who had lived before him. He may be considered almost as the creator of a new species of animal, sp generally and so justly admired; we must, therefore, look to him for their origin; but here some difficulties arise.

Mr. Ratewell was very secret in his transcribus; but for, if any, prosected his considence; is did not trust men there who were immediately concerned with him a ;;d for him, beyond what the autore of the boomes much unexcedutive necessary, and I do not believe that even his immediate successary, and I do not believe that even his immediate successary, and I do not believe that even his immediate successary, and I do not believe that even his immediate successary, and I do not believe that even his immediate successary, and I do not believe that even his immediate successary, and I do not believe that even his immediate successary, and the not believe that even his immediate successary, and so not believe the processary of the successary of the successary were originally bred.

What was the particular breed of cattle in Leicestershire before the middle of the last century, should which time Mr. Bakewell hegen his exertions, it is difficult to determine; perhaps there was not any distinct breed, with particular specific characters, wherefis they might be distinguished; although there were always great minubers bred, yet the produce was herer equal to the supply of the county; there always way, and will is an influe from Treland, Wales, Sections, throughing, Soulonidaire, flotefordshire, Northumberland, and Lancethine; the latter

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of which were most probably the stock from which Mr* Bakewell began to bret a first best cows, it is belie vet), were artfully obtained from Mr. Webster, of Ctinley, in Warwickshire; and his famous bull, T\. penny, was bred from one of these company of from the procured from Mr. Phillips, of Harrington, and a from Northumberland. From the boomings, with great judgment and attention, in a short time in the second some beautiful cattle ; they were long and fine in the had small heads, clean ttiroath, strait broad backs, while quarters, and were light in their I jellies and of! and quiet in their tempers (this I believe owing in great measure to a thorough domestication") grew fat with u small proportion of food, but milk than some other breeds.

No man, perhaps, ever made more comparison ben_{lC}en the different breeds of cattle than Mr. Bakewell, and one that was able to tell so much, baa told us so lil about them; however, in this instance, we arc I to say, that several years past he put three new milched cows in three separate stalls, an !!*• a Scotch, and one of his own breed; the IIoMeruess eat most food, and give much the greatest quantity of milk; the Scotch eat !< food, and gave less milk, but produced most butter $-_{f}$ his own covr cat least food, gave the least milk, and made the least butter, but laid on the roost flesh : hence it will follow, that the Dishley cattle are most adapt the grazier and the produce of beef. In the com Mr. B 1 many individuals., of his over cdbut of extraordinates fathers, but has not left us any particutavs.—Xn pa Ir. Ferryw,

AB I have several tiroes viewed the Dishley stock, I am of opinion, that of parts, and disposition to ire not to be excelled by any

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of tbcir contemporaries, though the principal attention ticre has for some years back been directed to sheep; id I believe some other breeders are now possessed of leavier cattle stock. The general improvements made in lis breed of cattle, since the first attempts of Bakcwell, re principally these: the coarser jmrts have beeu done away or lessened, and the more valuable parts enlarged. The present improved breed is finer boned, liner in the neck, throat, and bosom, the back straight, wide, ant! loaded with flesh, the ramp wide, thick, and fleshy on the points, insomuch, that in some individuals, hillocks of fat are found thereon, and about the root of the tail; and that even when ihc animal i common condition, or store order, the lltnk should feel thick ami fkxhy, and the beast in every part should handle loose and mellow. These points were allow y where esteemed in the breed, but not thought attainable bul us locally situated ou the iinest and best laud for keeping. The ingenuity and perseve *Ir. Bukcwcl) and liis f. lowers, has, bowev at measure proved '.... contrary; and improved cattle we oow found in many places uls the te is nothing extraordinary in the keeping; and it is the general opinion, that well bred cattle will sustain more hardship from hunger, and do better with >rdinary fuod than those of an inferior kind. The efforts that have been made m the improvement of this breed of cattle at than have been applied to any other; the succ> nese effort- in the public opinion has been sufficiently proved, bj the \traordinary prices that have repeatedly been given for the stock ; and if they are not the first breed of cattle in the kingdom, there can be BO doubt of their being a highly useful a«d valuable breed. It Mas repeatedly ascertained by Mr. Bakeweil, that thia breed were less ions, and Jtept themselves in good

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good condition u ^rood than any other of i bt, ami particularly than or J lolderness; and llii in a considerable degree determined his choice,

Mr. Marshall, who resided two years in this neighbour-I v in print, in! f the Midland stracts, which may tend to throw light on the subjects in disci

•'ong been famou: lorn cattle; from origin . This L tlitr parts of the north-, of the !. • nd counties. Mr We!- ith him tot j- Coventry, v. be first there, in the last century, from the banks of tl ' this breed and a bull ; Lancashire, and breeder oJ •1 conn'

Mr. Bakewell is well k^p | the lead as abreeder of cattle, by meansand a bullpurchased in Westmbrelanfamous bull, Twopenny. The iifamous bull, Twopenny. The iiJr.IVebstcr's stock are more ibeauty or utilityof form, Mbeauty or utilitytheF hia breed of ihis bull, Shakeypear, having h\\\, and a cow of the I

Shake3pear two seasons about the year 1784, nt 80 guineas the season, [n 1786, Mr-Princep had a co\ htered weighing 3Gl lb. each'fore quarter, and 3731b. each him} quarter, j lb. of tallow, and cutting six inches thick of fat on the chine. Ju 1794, two oxen bred bj JMr. IViueep, were fatted by the Marquis of Donne-. Fisherwick j a short time b> *icy* were slaughtered, ill e much alii size and condition; one of i >s carefully weighed by Mr. Boman, his lordship's steward, the four quartet lied . tiie tallow was 200 lb. and the hide 177 lb.: this . at the common prict f in the country, waa worth •£60, or guineas. They, were both slaughter '*u* r die use *of* his lordship's family.

Mr. Princep was offered some, time ago, as [have been informed, by a very popular i II known nobleman, after viewing his stock, for 20 dairy cows, $i^{>(2000)}$, wbi offer was declined.

Many other very capital herds of cattle-midin this county.Mrhall, Imerous and very superior ston July, 1797,Washington, a bull, andton, his dam, a cow,whi1\$4, both from the Rollwright sale, werein Iraewhatsuperannuated.

In 1 a yearling bull, which leapt at $\pounds b$ »f letting by the season was the 1, and to sell to $_{r}\pounds100$, and upv In 1793, Mr. Pagel retiring to a smaller farm, his highly improved stock came to the hammer as fol:

First

CATTLE,

First Days Sale, November 14, 170	
	Guineas.
Lot 8. Short Tail, by Shakespear, bought at Mr.	
Fowler's	38
Lot 9, Eyebright, by a bull bred by Mr. Yarn am	51
H, Strawberry, by a Dishley bull	31
36, Brindled Eyebright	- 33
20, Pcnn	35 '
£9, Young Dandy	30
30, JJrindled-Fmch-Xidy	29
Bulls aud bull-cal	
34, Suakespear (bred by the late Mr. Fow-	
Icr) by Shai equation of Young N 11.	
Whoever buys this lot, the seller makes	
it a condition that he shall have the	
privilege of having two cows bulled by	
him yor•,rly	0
S5, Bull-calf, by Lot 34 -	S 3
S7, A ditto, by ditto	31
39, A ditto, by ditto	31
Second Daifs Sale,	
One three years old heifer	70
47. One ditto -	32
48. One ditto -	35
A3. One ditto	35
55. One two years old heifer	2.5
57. One ditto	60
58. One ditto	84
60. One ditto	29
61, One ditto -	25
64, One ditto	27
Shake	spear.
	1,

and all work

Shakospcar, lot 34, was bought as above by a partnership in the county, and **afterwards** served cows at 25 guineas each; I saw him at Mr, Stoues\ *Quorndon. IV. P.*

^rJ1ie whole of the heifers were by lot 34, and together with the cows had been bulled by him, excrpt lot . which hud been bulled by a sou of Garrick, off lot 8.

Respecting the form or make of a good medium or minor long born beast, for they cannot be all expected to be pre-eminent, they should be well proportioned in length, depth, ami thickness, wide **particularly** on the rump, with short legs, aud thin horns spreading wide ; the colour red, or pied, (i. e.) red with streaks of white on ihe back aud belly, or breened (i. e.) dark colour with streaks of white, or white with patches or spots of red, or dark brown; these last, some time ago much esteemed, are now less so* Bow or lowk horus were formerly fancied, but have now given way to a fine spreading horn; the hide should handle sleek and loose, of a moderate thickness aud weight, when fut, from 9 to 13 score the quarter, nett weight; but superior stock often weighs much more. 'Die price of store or other stock at market, is governed by the price of beef and dairy produce ; a fresh, barrea or dry be; ist is worth two-thirds of its value when fat; which, if to make the above weight with the summer grass, will be from 13 or 14 to.,£18 per head lean; a dairy cow and calf somewhet more; but the price must depend upon the kindliness of the beast, the times, aud many local circuinstances.

2. Dairy.—Although the improvements in the long born breed of cattle have been chiefly dirtcted at the carcass, and consequently at an increased produce of beef, yet this breed produces in this county many excellent milkers and dairy cows, and Leicestershire may be considered *as* a considerable dairy county. i» the **neighbourhoods**

hoods of Ilinckley, ortli, Appleby, ami Snareston, art iectable dairies of long horn cows, of from to 25 cows cacli; and again b that part of ' uty bonk-ring on & Trent, and also .11 the va! but in this latter district, the cows are jiart Holdemesa or short hum; these ea< the n and give the most milk, but the milk of the long honi is rid i will produce more ; a ennsideruble quantity of ch sde, more than is consumed in the *c*otinty.

Mr. Ferriman, who has given much valuable information to I e Bourd concerning live stock, has, in some degree, I the s' tin* county, and I suspect either from mattentio; i or missinfor nation !.... done them great injustice; he says, " making good che is but little understood in 1 elecenteralize; the ground in-J i unfavourable t the skill of men is still « iding Stilton ch< chicily mutle in this county. If lit ct, wh' we come the very great quantity of excellent - mid annually in fair, on Oct. 10, in this county, and ich cannot come fros vithout bei brought n< > miles, though 1 r lit lie is it both from Warwickshii hire, hut not .11 superior to the cho be county ; this cheese may be sontewliat inferior aid appearance to the l Gloude i, but is nevi ry good and useful cle, of a moderate size, from Ci to to to the 1 weight, of 120 Ib. rt coloured with anatto, and in part of its natural col

The late Joseph Wilkcs, Esq. who dealt largely in this artt I whom I have more tl y busy hi this fair, who sot): bought up large quantities of • ese

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apital, or other places of i.;ruat would have borne am; would have borne am; industry and good conduct of his countrywomen in the emeut of the daii with many of whom he was •-mully well acquaint 1 hu\ informed by !. M. who u: more control id clerk to Mr. Wilkes, who 'bought many thousan' tons of i here for binjy and whose knew I-day of the second residence of the second se accural e as his veracity is unquestionable, that in no comitry do they know how to make more cheese from the quantity of milk, and in cruntries borw to manage it The quantity of dices ally produced from better. a cow, is from three hundied weight and half to five hundred weight per annum, a\ hundred wi when live bundn duced, it must be und the following favourable circuit J: 1. the calf must be taken from the common m BB possible after caJvit. 2. if a cow ***** her milking, such cow D from the dairy, and *a* fresh one added to number; good old pasture is necessary, and plenty of grass, as well as prime stock and good management; four humi wiglu per cow is produced in common, when the calf is ten away in reasonable time, und no butter is ma* which is the case in some database where the * are so careful not to skim the milk, that butter is even bought fur the family use: in it the skirmied on Sunday Family i Family i morning, tmd new milk chocke ilie rest of the week; wiich this is the case, less chose must be tapertei. Mr. F. when the average quant, in the sum in EL, may be about 10 quarts per day; I \> ive been [0 quarts per ineal: he is is is a Bummer Vi cosv will yield about 14 1b. no butter is made, and about tilb. of butter, if no i

made. believe this to be rather a low estimate. ight is an entry in the state of the state o able or unfavourable to the making of good cheese I know not₃ but it certainly requires great attention to discriminate between those pieces of ground which are proper for dairy cows to feed upon, and those which are not, for there are but few, if any farms, where all the pastures are equally proper, and fit for the business In answer to tins, I know from my own of the dairy." experience, and it is corroborated by others of much greater experience than myself, that if cattle are healthy and in good condition, any pasture that U capable of keeping them so, will produce good cheese, if the dairy be well managed; but good artificial grasses hi the spring, old turt" pasture, well stmded and watered m the summer, and mcadow aftermath in the autumn, will produce the greatest qnantity; and 3 person possessed of these need be'under no great anxiety about selection of pasture, otherwise than to change his stock about at proper time. A principal accessary rule to be observed in the dairy is, to use good sweet rennet, and great cleanliness; to which may be added, giving the milk sufficient time before breaking up the curd, and not breaking or squeezing the curd too much to force out the fat. But respecting the iniiiutiu? of cheese-making, it is so much better known to every respectable dairy woman than I can describe it, tliat an attempt at the latter would only be a waste of time and paper.

1 have seen cheese-presses in Leicestershire?, consisting of a heavy stone drawn up with putties, and in other instances drawn up with :t screw ; when additional weight •wanting, it is not uncommon to load the stone with cast iron weights. Mr. F. says, the chc< in common use are very imperfect machines, as there are no ready means of regulating their prewure ; they press too heavy nt

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the first, and do not foll >w down the curd without represented lowering.

Mr. Monk relation bat in summer 1/2 cows make tv che i ses per day of six the hundred this in seven days with the two bounded and two cheeses over, ;d 120 lb. to hundred, which the count, or SO lb. in six i each aboitt I ib of where butter to be made per week from oich dairy i was a considered the lires about two acres and a half of good land to keep her the year round. from Candlemas to Old Lad heters are seldom aU in hi (ore the 1 der et id of April or Dairy Dairy ally breed their own The return, send their heifers lo the bull ; those who chi< ird the improvement of the breed, do no them till they are three years old. Good cows will continue to breed ind to give milk till design and to give hill be iti vaii. de old, aud of cou. getiently put to fat at about that ag

Estimate of the Annual Produce of a Dairy Ct

Four hundred t of cheese, at per cut. -A calf, taken from the cow at a week okl Pork, or baco. produce each ow, and wbey butter

Total X

Further

20.

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1 10 0

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Furthfrom Mr. Monk.—LorH Harboroughlias been at a great expeiimprove the breed of catin general, for the benefit of bistenants. His lordshipgav7 for a bull and ^89 for a cow, besides hiringrums at a great price from the first breed'I was in-formed, that his lnrttehip fur m1 to give con-siderable prizes to his tenants for U>, &c. &cbut, finding they had the impudeniattempt au imposition, his lordship has left it off. PI is lordship told me,"That he had given a commission to offer for Mr. Pa<!</td>aonabull, and with no other view than the good pfhistenanfcI heard his> guineas apiecefor ewes at Mr. Puget's sale-the bought a heiferwhich was, no doubt,, for the laudable purpose ofimproving the stock of hiits.

By information from a very intelligent **cheese** factor, **who attended** Leicester fail 07, *I* was informed, **that the quantity** of cheese generally sent there amounts to about COO tons ; the general price this year from 58s. **to** plain, and **to** coloured ; general average about (JOs. for new **milk** cheene; skim or two meal **cheese of c'o**

By ! le person I was ned, that the quantity of cheese annually sent down the Tr« unties of Leicest Itingham, Derby, ami the nort taffordahire, considerably exci)00 tons; this may bo con districts over and ub> tlie*ir own ^v of destination being metropolis and for victual]; invy. Leili will require >O dairy cows to prod

For the supply of the county itself, **1 have** calculi upon another occasion, **on** ti **arcity**, and **which** i *ij* that one dairy ci

required tIfi peripply cheese, butter, amimilk, and iht population of this county beingJOOswill require at-redanowiumption, supposing nothing of dairy produceexported from die counipt the che<</td>>re stal.*be daiicounty must,>00; this number *in* kept up principally by rearing inthe com

SUJ Jiese dairy cows of five different ages, from three to *seven* **yenrs** old, both included, tl, be annually fatted oft⁰, and 3000 **iairodaced**; but, as many are fattwl off at an earlier age, I suppose 4000 cow may be annually reared, and probably '2000 bull calves or **oxen.**

Quantity of laud **necessary to** support the above dairy stock:

Suraiuer.p:; the fit 15,000 dair come	30,000
For rearing called the tist year	1,300
For stilks and heifers llu second and third year	6,000
For feeling of 2000 head of cattle, iiay	
included -	7,500
Hay grou Lid to wintig the dairy cows -	15,000

Total dairy ground

In addition to which, some little assistance from njc araiole land, for straw, turnips, S.e. will be wanted.

If 2000 bull **calves foi** ran land wt

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-	A	L	1.		Ľ.	

For	the	two	first years	one	;icre p	r luiad	-	000
For	the	four	last years	two	acres	er head	-	16,•too

Total qx ground 20,000

- 250

For

Producing annually £000 oxen, or one from every 10 acres; suppose the weight 12 score the quarter each, or j60lb. of beef from 10 acres, this *in* 9\$ M>. of human food per acre, per annum; and suppose the value 7d. per lb. sinking ffal, this makes the value or produce of land applied to breeding and feeding oxen, $\pounds \% U$ acre.

Aiinual vali.io nf produce from 15/)00 dairy	
cows, as before stated, at £ 14 11s. per	£
head	21B,»JQ
Do. 3000 cows fatted to 9 score tlie quinter	
each, sinking the offal at 7(1. per lb.	
£»l each	fi5,000

Value produced from 60,000 acres; this is , per it may *]*)*t* expected from youug stock as overplus, from rearing annually 4,000 and only accounting for 300Q in the above estimate. I believe the freight of huinnn food produced from dairy cows, per acre, to be nearly double that produced from oxen, and its value in i same proportion Oxen are, I very unprofital tlian as they ate wanted for labour.

A cow to get ears old may be i we vd to consume and produce as follov

		Acres.
)r the three first rearing years, or	ne acre each	
year -		3
P>r the four next milking years	, two acres	
ami a half each year -	100 C	10
[?] or the feeding yeur	and a state of the	2
	Acres	s 15

	lb.	
Produce.—Four calves fatted to 25 lb. per		
quarter each	400	
Pork from its milk and whey, 60 lb.		
per annum	240	
Cheese for Pour rears, 480 tb. yearly	1920	
Its own carcase at last, 9 score the		
quarter	7GO	

Produce from 15 acres 55380 lb. wt.

This is upwards of G25 lb. per acre per annum, of faumun food.

Mr. Honey bourn opinion with me, that oxen are very unprofitable stock ny farther than as they are wanted for work, and this can only be to a certain extent, even allowing them the merit claimed by their most sanguine advocates, He sometimes rears an ox of a favourite breed, and promising appearance; be shewed me One r. 1807> of about four years and a half old, ripe enough to be worth 30 guineas ihis season, but thinks it then unprofitable compared with heifer stock: this ox

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id not been worked. Another of his oxen, five years old t, had bei id therefore paid its vay better. Mi. Astley reartand feeds, but seldom draws oxen.

A good bull calf at two months oM, may be fatted to]60 Ib- veal; an • ;ir3 and two months i!d must have grown well to come to ihe weight above ited 9601b. consequently 800 lb. weight ou!y is gained by six years grazing.

.Mr. Honeyboure data have rally, and)uld more so, as u til :ts oxen, but from their particular horse system (SET HORSE;; but thinks heifers for draught would answer better than over. The number of cal about 25; they rear every cow cult', and be think over LI bred cow calf, calved in proper time, should IJ aid that ball calves, except for gt: >ck, or as far as they are wanted for work should be i'aUed on the cow. Their annual rearing Vs about 15. i saw the young stock of different a hey ore by no means large, but line in the bom*, and sleek and How, and then beauty and symmetry of parts, as perfor; as can be conceived; clean and at the and deeping 511 good condition upon common particular and quickly fatting to a j^reat Weight Mr. Honeybourne u of opinion, that heifers att* superior to fat at any age, with or without breeding irora them, and I vould produce » greater weight the transformed Two principal bolls hpwn to me t Oisbley, Oct. 1SO7, the one in full prime, leaps occasionally, being serving themselves, at $j \neq 0$ 10s. p^ the oth but as fat as an animal can well be innd< cU of fat upon the rump 1 jouud the root of the tail ; meant for the butcher this iaon, and now climated at 1 lb.) the qu , ah hoc ^nUll dinun -pi ttuckoesf. Uotb

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these animals without a sexual examination might be mistaken for capital well bred oxen; they are indeed as fine iu the bone, clean made, and free from offal, \mathbf{m} om every appearance of \mathbf{m} many $\mathbf{i} \leq \mathbf{m}$

The oxeu reared in this county for work, or ot! arc genendly of th but numbers bought in for id sometim of all bre< long and short horn, 11 A very small propoi k of the coin. ho I suppose not one-twentieth part, is done by oxi

Inspecting rules ob in breeding, the owners of capital stock breed and rear all their cow calves that come in proper lime, ai;d as many bull calves as serve for the own use, and for the speculations the in the dairyman rears an amiuul lot to keep up stock and to spare, adopting the i

The Ijtill calves reared art; run upon a cow, and some^ times the cow cal the breeders, but the most common ai tern, is to give them . iilk for a week or a fortnight, tl Ik pottage, which is water and a little milk thS •! with oat-meal, barley-meal, linseed, or oil i whey pottuge; t! must be thus fed > '-hey svill maintain *then* ang. I have before calculated that 4000 cov nil oxen, aiiuually r from 1 y cows in this c if we < annually, of which- GOOO are

 T1.
 -i room for s 'ally

 m proper time, and puts
 nil he can command. The pro]

 for rearing co
 irly iu the
 months,

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at they may he ready to graze early, without robbing the

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The general size of 1 rshire cattle, when full grown and fat is, cov 8 to 10 score the quarter, and oxen from 10 score to 15 score the quarter, though many instances occur of individuals very much exceeding that weight; the form has been already described ; respecting constitution, they arc sufficiently hardy and healthy as any other breed ; the most general *col* bundled, with streaks of white along the back aud belly. Mr. Ferriman says those of a deep red, dark liver colour, or black the b< ns, will endure the severest weather, per for; *it* work, live to the gi fatten on such food as i starve those of *wt*

Respecting crosses, none are sought for in this county, except wit od bull h there are some t >utham breed, and short hom or Holderness being kept and pr< in some parts of the count

At Lord Mmproved Durham breed is pre-
ferred ami kept; it is a well made thick heavy respectable
eat part ofIMJ. Tleat part of

the kingdom iriety, which is a striking proof of apable of: 1 was there shown a five yea; .11 of this breed, a fine, thick kindly and heavy animal, the colour mostly white with black spots; aba five Durham oxen of his Lordship's breeding, grazing in Trent meadows, they were four years old, and large enough to make 15 or U> score per quarter; the breeders however h<>re assert, that Jhese will not fat or ripen with their long horn breed, and that unless they are well fatted, they will not take so much price per pound to the butcher, being in a half fat state, coarse aud unkindly. The dairy consist of 8 very fina Durham cows, and 2 Aldemey *j* the Durham breed

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ell known, being short horned, resembling the Holderbut larger and heavier ; hoe were also 7 Scots Ayrshire bul uough lo make 10 or 12 score the quarter. The Fi 1 1 understand are larger stiil.

Fa-rewhilsl:\text{Ve} milk are fcrlhhay in cow-slieda in Iht, tuul turned out in thftdays; when dry with r_t and a Few tin nips, andafterwholly with hay, and picking in Itureturehud, pies.i autumn.

tlon of turnips thrown upon land. C: tarnips or cabbages and picking, or if the gn. Is a

liltle bai winter, and there is

Fatting cattle are generally made up aud sold before the approach of very little stall feeding hrre; but if a lot nearly ripe, happen to lay upon liani till on, they in us: and reding haff, or oil cake, as well . and I .saw very few seldom th usances of good find sheds within the county. Mr. Astley has something of the kind, but not modern built. and seldom !. up long ai'tt'r Christmas. Mr. experiment, that cattle fatten faster and do better for being I warm; and the fact is, the Leicestersh grazier begins to fatten his cattle in

down her hovels, aiher hovels, aicontrived ina proved by actuilkepi clean aru.tie

A inter, when they will . little hay or g them on I iII BIIII > in tin

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ideed natural grass is the mosl proper for cattle, and for dairying good old pasture in summer turus to the best account, as well as for fatting cuttle; it is understood universally, that water in summer in a cow pastm • is al-solutely necessary, and shade cannot well be dispensed with ; in autumn nothing can he better than meadow aftermath, which is generally and properly reserved for catth • acting soiling, or carrying green food to cattle in sheds, it has been little pradi>ulf and the high price of labour here militate* against it. Mr. Bnkewell often kept up heifers for draught, and other stock in summer, ami fed them with mown grass, but this practice is not now or but seldom persevered in ; though nothing bids fairer to be a great improvement in rural economy, than mal rich enough ibr mowing, confining cattle hi stalls, carrying them mown g id returning the main y make to the land as back carriage. I firmly believe that a this practice were general, with due attention to the improverattit of the land, die quantity of live stock might be nearly doubled, without extending, but only by improving the present breadth of pasture.

Respecting the management of cattle, very little remaim, but what would be a repetition of what has been said before, unless it be respecting the numbers kept in th« county, and the land necessary to supp lias been stated before, that the stock reared and regularly k< iu the county, require for their support of pasture and hay ground - . . 0,000 Acres.

The permatnent grass land of the county 11, Chap. ! 'arks and Pleasure Grounds included at - iO,000 The Artificial Grasses, Chap. VII in. Course of Crops - - 8.5,000

Total glass Imd

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Dfcduct for gentle) roves and planfull' 5,000

Remains useful grass land, applied to jek - - - ''00,000 Deduct, applied to the support of horses, oneTfifdi of this. Sue Sect. in. of this Chap.

Remains for cattle arid sheep 2.5f

For want of oilier **data**, **I will** supp. that this remaining gva^s **land** is equally divided between ear species -

For stock reared and regularly kept in the county as bet

Remains for ending cattle stock to be .supplied from ere - 48,000

If we allow of **this** U is per head, 1 r:tnce they get from **green** cr; imber **oi oted** annually will be '24,000 beside hich i i; but a the green c is than a!' ed upon, it . is than a!' ed upon, it . is than a!' muilly fatted not i is tUe, of \ one-sisth a, less and more.

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m gaining onc-thir J, and costing two-lhirds of their value when fat: very little stall much corn *or* call rattle, the r part of the business b done) in the $\hbar v d_t$ of the ne-third are probillity cons mi ltd in the a in the remainder sold out of it, to Birmingham[^] the populous pans of Staffordshire, or the metropolis.

Amount of 30,000 head of fat cattle at	24	720.000
Ditto of 23,000, bought in at	It)	400,000

Produce of fat cattle

320,000

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It must be the set of the set of

t With I be a second of the se

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iewptn.—Mr. I it has loujr bd

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Lown the periodProper rope is not atlarge pails full oflion; if a proper rope is not atlarge pails full ofId water, i:one afi'her u\i back ofitintl, gives such a shoda violentthrust into ti.!e xrny savy kill, and Lssometiii.fully us

'J'he garget is but little known, and boldly < the second second

There are many the flux, change of pasture, dragon's blood and ale, in the dewlap.

Scour, in **rearing** itting - were to the lientcry of medical w has been very successful; give **a** small handful ft sand and salt, with **au** . and wash it down with **alum** tvhey ; it/ i:it opium, decoction? of Oimpeachy t iul bole armenic, be efficacious in luints.

Black leg, quarter evil, irous of Staffordshire, and murrain of some counties, a dangerous complaint, ital to young cattle, **particularly** to yearling calves; it consists of a stagnation of the **bl** ften beginning in leg, and soon extending into the body, qui d by mortification and tleatli; in sol sons many die of it; bleeding, and and drenching with met!i have a the blood, as **a** vie when ^r nothing of the animal, but i

that cured by caustic apj

CATTLE.

Turn, or vertigo, when this complaint attacks the beasf, it he in pn od plight, the best way is to slaug: such beast, though the disorder is said to be cureable by an operation similar to that of trcj the human skull,

iFoul water, not difficult to cur in lime. Dr. Darwin in his Zoononj grains of opium, with or without as much rust of iron, given twice a day in a ball mixed with flour arid water, or \u •^ater, or warm ale, h I believe an efficer remedy in this complaint, v. h add two quarts of barley or out* twice a day, and a ball it if the \\ etulier be cold.

 $en.-I^{T}$ am worked, but in small pi an, nor do I think the practii 'sing. Mr. Stone of Barrow had two plough teams, ol \; when I was there, j }ong and part short horn, which his servant told me they were tired of, and meant to lay by, and feed off; soil harsh and strong, horses supposed much superior* O⁻ drawn also at plough upon Aslihy Wolds, and elsewhere, both atone and mi

Mr. Ferriman says, hulls will retain their vigour till they are nim sonu: even till they are teen years ot rtaifily no good reasons why they should not orked, stallions, (and they are somctirt; ben strength is wanting), An old excentric grazier carried this experiment so far, as i rk a bull in b but to> sftldle liim and ride upon him.

Shoeing*—A brai purpose of shoeing oxen or he is given under Farmi) . I understand a similar contrivance is in use in Wales, and other *cv* ties where oxen are much Used, from which this is an imirovement.

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Oven compared with Horses .- Mr. Ainsworth has un imliN nmin;r jium, upon OXtH ist'fl instead of houses, and has rani; d the change amongst the greatest improvements of agriculture; " they are, he says, equally tractable with horses, and may be purchased and manutaised at much less expense, but custom and prenative misguide the farm er; the very great consumption of outs and beans by laurees, wouM he saved by using open only, which are preferable for a steady draught, as they alwaya pull : o their strength without fluching, horses on tile contrary are upt to stop, when they meet with unexpected a much laud may be ploughed hi a day with ; i composed and a sof h composed in the interview of the second se nothing bu , in wintei hn; in the second sec i dung 11 lent manure, and an ot ot $^{>m}h'$ (i waper, but led much cheaper I »n ahor of it a borse happens I be land be is rendered useles, if an as be disabled from his woik i futtud fur the bliainb! and sulti for in the stock of linner must be reacted every ten years upon a medium : oxen last for ever, (r which) the same thing, he cau be Id to the butcher when past his the state of mire money than will purchase ai about the second ire greatattetidsure, even little more than giving the ^{tin} necessary food; the shoeing of horses is a great expense, of even a meretriffe. The advantage of using oven would reach to all mults of people, the markets would be filled with Ln ef, which would lower the process of that article, buk also of leather and UiHo\. and h; iiota single and house; but the work of the farm, which ists of 100 meret of antible le tils ant J Go o(parties m.g. wood, is performed with ease by 5 oxen, togetlijir with itatute duty, timber and coin caning, &c.; ih mess is exactly the same as that of horses, except thi; collar 29 LEICESTER]

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is reversed; they are drove with bridles and bits in their months, and answer to the same words of the carter, or ploughtnari, sis incres, and as readily. I plough an acre of land every day, and in less than 8 loans, a single man holds the plough, and guides a pair of oven with rems."

•xcii (h ml though tin ml that the ml though tin ml though the ml though

On belialfoi* the furners preferring horses, it may be observed, th;ii used exen generally, but only partially for light curtiles. jireference h< or given to exercise theoretical, and it remains to br proved by experiment, that oxen are adapted for the dispatch necessary in modern culture; that over vere more in the in beckward tunes, and are new used in unimproved countries, it no proof of more their being atlap¹ ed to an extended and improved agriculture; but the great minimum made by the advocates for oxen is, their supposing the great commonstion of landed produce to be by agricul Lept for the road, th< and other purposes of commerce, luxury, pomp, and show, is much the presider half. I have up to be the second seco calculated it to be three-tifths of the whole, as these kind of hioises are much higher kept than form horses, and are

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ilh the supplying the supplyin

itno horaomtlieCOor from highlife, or the guy world; unless oxen could be substituted in
: not likely to take place in the pre-
sent state ob nsent canno farther than faimea, which for r< before
11 proportion.

ianeoui on Cattle.—Mr. Ferryman says, n good cow will continue to breed and to give imik till they aru twenlyyears old; and Mr. V • I a cow for j?18, 7s. 60. that age; for near seventeen years in the mil! cow had givtin from ten to twu tilk [>e] >n wh) ynly ;)ihs it) fattening.

ding.Inx on gr3s?, Mr. Aiiwworth s; >is best to sto;aid change the pasture, alit in change and vaibeing confined too luii£ in one ptheir bfeet, foul themake it « sable to thejbut by taking them out at intervals, t'

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the atmosphere to swr-etcn it; good old pasture iperior to all other

all animals 1 ould be fed in the field hi sumn; I in winter in the new ba li turn:; i vvnra but ilarly with potatoes boiled in ; noil,: mici out exceed boiled pi in winter fur all cattle, bors

" In stall feeding, all animals should be kept somewhat cool ; this may be contradicted by some, that have been used to keep them warm, and for imrly under the smallpo; and kevers people, were also kept warm, and some old women ai luth to tliot. I some tilt i set philosophy and experience have reversed the practice. Tin internal heat of a feeding and inal is very t, its ; ition produces a warm mosphere, its blood is in a fewr, and 1 at the possible to convey a thermometer to the second se (lout the mercury would stand sweating waste- an amtrnn as is well known to jockies, who prove too heavy. I juwe often observed feeding hogs come from tinder their i and and do'i n in ih togetherj iti frost and the thickness of their fal ing them warm; as the whalea by their fat or bhtbL at the joy themselves in the Frozen ocean; but the hime turns here. Horsea retijiire to be kept wnrm : their their hides are thin; but when big inning to feed, • should be kept cooler by d-trees, till it terminates with a current of air; a farmer, It.- under the only nature iitanf.

te on Cattle.—In a farther conversation with Mr, Honey bourne at Dishley, on the subject of cattle, he still ijthc- idea of the superiority of heir

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☆ oxen, except 30 far as the hitter may be wanted for work; heifers arc much superior in early ripening, suid with additional advantage of their milk, are much more profitable stock : a well brt-ed three year old long horn heifer, he s, will, witli out having a calf be fat at grass enly, nnd weigh 0 Ib. weight the fonr quarters, which is COO)b. of beef per annum. Aw ox at grass will eat much more and not produce so much weight of beef per annum. An heifer calving at three year old, may be milked sis mouths, and fatted by four years old to COO 1b. weight the four quarters ; producing as follows, in four years :

1b.

'Hie calf, at six weeks old, and pork from ihe milk140Cheese 3GO Ib.lk>ef 600 Ib.--960

Total 1,100

k^{on}

This is much superior to the produce of an ox in the same **length** of time.

SKCT. 11.—SHEEP.

T H E present sheep stock of Leicestershire may be arranged in three varieties ; 1, the old Leicester; 2, the new Leicester - and 3, the forest sheep.

The old Leicester sheep are, I suppose, an improve' ment upon the ancient stock of the common fields, by crossing them with strong ram a from the pastures of Lincolnshire, or by better keeping, in consequence of the enclosures, or both. They are a very respectable breed of }, large, heavy, and full of wool; but strong in the

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bone, and somewhat coarse in the pelt, and taking a good This, or a similar breed, has deal-of time to fatt spread over the inland CQiiritie* of Northampton and Warwick, jipti are by some esteemed as a very valuable breed of - they are in general larger and heavier than I new breed, and will sell when fat for as much per lb. the butcher, and produce more wool; but most, if nut all, the flocks of this breed have now got a dash of blood of the new and improved sort. The shear hogs of this breed have been sold in the fairs and markets in autumn, to put it tin nip[^], at from 50s, to GGs. each, according to size and condition. The characteristics of the old breed is, their being coarser in make and fuller of bone than the new, thicker in the pelt, and fuller of wool, trhh head and bones in every part, and are seldom in equal condition in point of fatness. A good assortment of this breed is annualiy shewn at Leicester fair, Oct. 10th, both, rums, ewes, bbear-hogs, tbe&ved, ami lambs; some of I old full bout- breed, and others, in different degrees rt fined and pqushed by crossing with the new breed. Rams for the season, of the old breed, one guinea to ; ves for sale, one guinea to three. Mr. Frisby, of \\ alt ham, in some degree adheres to the old breed; b« ewes were originally, from bin own account, all of the old breed, and be has never hired & rain: but he has sometimes sent a lot of his best ewes to be rani'd at Mr. Bredou, Buckley's, and other first rate breeders of the new school, of whom he speaks with due respect. He was some years ago a ram letter, but has since altered his plan, and now sells his rams by auction annually, Sept lyth. He first selects what he chooses for his own use, and the remainder are exposed to his customers, by any one putting up which he Choose?. In ISOI, Sept. l&th, he sold 40 in this manner,

the highest at 32 guinens, and the lowest down to 4 or 5 guincas; he was offered 50 guincas for one he had selected for his own use.

Mr. Frisby's flock was named to me, and Mr. Moses Miller's, of Ktbwonh, as two of the most celebrated of the old breed ; **the** *a if* the former to the new breed is obvious, but the hitter i . 1 idly adhered to the old I was a pavy, ami full of bone and wool, large enough, \ it to weigh 40 lb. per quarter, and to cut 1¹2 or 141b. of wo

y in formed me **personally**, that with the new been everal years ago, when having obthe points he supposed he wanted, he has since d upon his own bottom.

Vale of Called on Mr. Hand, one of the Duku of Rutland's principal tenants, who keeps a lai k of sheep: he si me G two-shear v. which I estimated at 40 guarter; but I have lately seen as y or li of the new breed; I also saw ihe rani their sire, and the store ewes. Mr. Hand's flock is -a •tween the new and old breeds.

Who is the Duke of Rutland* y intelligent, gave me a variety of information n Brid other matters : he says, the disiim tion, old and new Leicester iheep ought to cease, we wry intelligent sheep master keepa that toti which best suits the laud he occupies, and therefore very few but what have croaccordingly; that the true distinction now ought to be, to call one the strong and heavy, and the other the fine ami lighter Breed; that upon all the stout rich deep cluy feeding soils, the strong heavy breed Rucceeds well, and will make the rac 6t j that upon such lands, weight of mutto, i ird weight of wool, are material objects for profit, **: that both ibjecta** can be well supported upon the R 4

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richest and b«st snils; and that no grazier who h; is **Ian** capable of supporting heavy stock would benefit bj introducing lighter, but that even upon such land where the stock \vas grown too heavy and coarsr, much advantage has been derived from crossing with the Dtvhta} breed, by obtaining that form and those points tliat have in that bi so well succeeded.

That upon the inferior gravelly and shallower soils, of weaker staple, or inclining to sandy or lighter lund, the lighter and unafler-boned breed is incomparably the best; upon such land this brcrd will load itself with fat, and grow to a great weight, whilst the heavy great sheep, with long wool, would not do at all.

That in the account given by Mr. Young, m his sin of Lincolnshire, of those townships which are stocked with the heavier breed, and those with the lighter, it almost universally occurs, that the former are upon tin: richer stouter lands, and the latter upon that of inferior staple, where the heavy sheep would not so well succeed.

Mr. Bakewell (whose farm and neighbourhood is **nol** the richest feeding staple, but generally a light, grav< learn, ir meadow land, composed of sediment from upland, upon a decomposed peat), had penetration enough to see the defects of the old breed : he had observed, **that** in all flocks the moderate-sized, compact, **smalUboned** sheep, w«re in the best condition, and **soonest fat;** he, therefore, with great judgment and perseverance, **tt* himself to work to cultivate the desirable points, and do away the defects, and, by degrees, produced **what** has **been** called **the new Leicester breed.**

8. The ttete Leicester breed of sheep.—The origin of this breed has been variously traced ami accounted fur, but all agree in allowing the principal merit of its production to Mr. Bakewell, of Dishley. Mr. Ferryman, who

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d on this subject with many of Mr. BakewclTs contempotaries, says, that he liad formed in his own mind an tdi'al **perfection, which** he **endeavored to realizi that with** tliis view he, wit' at led perseverance, year r yrar, **and** at .some.thing more than **a** market pi ! in. in tin? **flocks .around** him such eweg as po's< i v l .mints, **which** were most likely to produce the animal he wished for. *The* sheep of the old **enclosures before** : :ne wt-re **flat** sided, long legged, ami somewhat co:> in **their offals.** To correct these defects was Mr- **Balu** well'* **object.** The idea **thrown out by some, that** this was <ione by crossing with the Wiltshire or **liyeland bi** strius totally e; fanciful, and void **of foundation.**

Ferryman saye^A about the year 17⁷, there were a ession of wet seasons, which occiiMom-ci a great rot in the rich deep clays, and in a short same wept away whe locks. Some of tile small and indigent farmers were mined ; Imt III.* more opulent and eiiUrprizing resorted to high grounds near Friduythorpe, in Yorkshire, wl: y pvirehased s<*me neat <:m:ill sheep, which, crossed with the few that remained in their own fields, produced some very us litnals. As the nun)ben bred for a Ion tiuia afterwards were not equal to the demand, they scnl -ear after year to i a market. Jobh reestablish who employed themselves i: pnrch sing show p on the Yorkslure wolds, for the use of the Leicestershire fam crs and graziers. Mr, Bakewell engaged thest- job; offer the sheep to public i he had in, and had taken out MJpurpose. Fioin these droves, or from the flowing i>red in his neighbourhood, and probable with with the large br' described the head he head his inst shoit-!' liith for a liine \: well received by the public.

A:mated

SFIEZP.

Animated by his early success, he still went on brccdin: from his own, or crossing with any others that he judged most likely to bring his own nearest to bis idea of perfection, by which means, and (in the opinion of one of the oldest breeders in the county), by a cross with the Durham sbeep, by slow degrees he produced a form against which he believed no possible objection could be raised. Their offals are small, and their profitable points arc large. Their backs are broad and strait; iheir breasts are full, bellies tacked up, haads small, necks short, legs thin, pelts light, and wool fine of its kind. They are quiet in temper and disposition, and capable of being fattened in a short time, on a sinal! proportion of food, and to a great weight, in **proportion** to their apparent ai

These are what are known by the name of the new Loicestrr, in contradistinction to the ancient breed, or to the large sheep still in use about Melton Mowbray, and in the vale of Belvoir. Mr. Bakevcll had once carried his refinement too far, at least in the opinion of the old About the year 1790, I heard one of his breeders. respectable neighbours say, he had like to have gone on till he had neither wool nor carcass, but was doing well now : it is well known, that he always kept his fattest inclined isheep for store, and sold the lean inclined ones (if any) to the butcher, contrary to former maxima. He was soon ably seconded, and **closely** followed np, by many respectable neighbours, both in this and the neighbouring counties; Mr. Paget, of Ibstock; Messrs. Stone, of Quorndon; Barrow and Kni Mr, Know lea, of Nailstonej Mr. Astley, of Odstawe; Mr. 13th fllngglescote; Mr. Green, of Norniauton j and many others with whom 1 am less acquainted in tins county, were very early iu their connection with Dislilcy, and it ia remarkable, that their preeminence as ratn4^etf^{er9} in ow, nearly **in** proportion

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to **Hie** easiness of that couuection ; to these I ought to odd , Siuljbins, **Breedoiij** and Buckley, of Nottinghamshire; Mr, Pi . of Croxall; **and** many others in U; **countii**

Mr. Monk., the leading idea is, to procurethaiwliidi, 01.u quantity and quality of fo.c most; and tho!c who. that libreed will live where nv-other hstarve-; and that, the more beautifulform,dter the animal isry kiuH. Nothingthe high estimation this bretd i3 held in, clearerthai) lhlately at differentThe foliore some of tlie particulars of Mr.jet's roles up on bis uarrowing hu farming business.

November of the second second

1 Marine L	Ewen	Golpein carh.	Guineas.
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N. **B.** Lots .'>;, :JS, "!J, iuul 40, were that es.

It is to me void 'ulj that ! houtd fetch average of twenty-five guineas each, and Ml of them the projection of one man.

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^u In your paper was lately advertised to be sold, by Mr.
 it, on the 20th and 21 mber last, llie stock
 >f Nathaniel Pit tee, Esq. tin p <f the new I r-
 >rt, and the neat cattle from the best sort of the long-hoimd breed.

" In an advert at of the stock of C. Cartwright, tlsa to Ue sold by Mr. Boot, on the 7th instant, it i^ s>nid, the neat cattle are of the best sort of the sltovt-borned breed, and lite jnheep of the true Lincolnsliiie sort descendfrom rams bad by Charles Chaplain, Esq. and Mr. Bartholomi

" Produce h sale, with the difiinnce.

At Mr. Pant	vien sale.	Mr. Carts	relation.	Differer
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it ih is Iand iti) fall; but at pre-
vvhile men Hockfrom ineithersecond and H (hii , if theydid not find tlieiiit in it. I hear 1 ;i person, from ;i
otiVr L^1 .s atMr. inl 1 heard,nod authority,
1 a thousand gui-
in this the price of the breed does
ear to be fallii

willi one of the fust breeders in rolie woo! uf tlii re mistaken in their ideas about it. He allowed that the Lincolniter fleece, but that a given quantity of land will maintain a greater number *of* the Dishley than of the Lincoln sli which mean* there will be a greater quantity < I produced u e of land; I ntlcman Iso certain thai n space bud would maintain one-third more of the Dish ley breed in number, which would li! ater weight of mutl breed.

This breed of sheep, though not large in appear;; will fat to a greal ull yge, as they still continue laying on fat upon the ribs mid every pnrt of tin well known, thin Mr. Bakewell has futted mutton to fat upon the ribs, where the quarters are separated ; and 1 have seen a shoulder of unit tun of solid fat, with - strent of lean upon it to be found, and they will c tqually fat with bacou; but though they :u this, h does not follow thai they need be fatted to that ; by hard stocking thty may be krpt down to what degree the owner thuse?, and, in a moderate *cute of fatness, thry are re-

SHEER.

imrkablytinedswcimutton quite eifany breed in the kingdom.

r. Ferryman ol been at great c fattening their ccp ag the sheep of other counties; but the result rimenti have been withhed from the public; the society when assembled, said only, that if a trial was proposed, they would send a style inber of alley p to bi breed; they wished that two pieces of ground should be allotted equal in quantity and quality, in the opinion of competent judges; that they should put upon the piece of pnsture a certain number of sheep, anrilhai a like number of any other breed should be put upon the other piece; and, that at a fixed lime, it should be determined which had laid on the most meat, and left the lest quantity of food upon the ground: this proposal be thinks very open and fair.

Mr. F, thus describes the new breed : " Their form? are very beautiful, colour white; flesh fine gruiued and well flavoured; tallow little, :& not advantageous to the grazier; pelt thin ; number kept per acre difficult to ascertain, a3 tliey are generally fed with other stock; they are never folded; fat weathers (whenshear-hogs) will **weigh** about 251b. per quarter ; fat ewes about 2Clb. j wocl fine, average fleece 71b., without **horns**, and the time of lambing March and April."

Mr. Ferryman gays, "Mr. Bakewell was certainly the first breeder, both in priority of time and in reputation, and we may naturally expect *UD* find the best breed, and the most celebrated breeders, in the neighbourhood of Loughboroug; but there are now many other famous breeders at a distance, both in this comity mid in Nottinghamshire, Warwickshire, Northamptonshire, and other counties,

counties, who have for mam years been parsing the name plan, and who think Var have as good a claim to the attention if the public." H< 100 moves, " Mr. Bukewell was frequently showing about of great fatoess, but he has not left any accurate particulars."

Mr. Ferryman gives the following account of the Lam Society and the Associated Breeders : . 1 find that there is bul error latter knowledge to be drawn from them, and e that little nuts', be admitted with extreme caudon, for they are divided into two parties, each jeplous of the others, but still more jealous of the public ; 0.e allowed beauty of their sheep, the symmetry of their parts, the quietness of their dispositions, and their aptitude to lay fat upon the profitable points have going 1 them &uch a collections as to chable their provides to chack from the multic large sums animally for the use of their r of these breetfers in the J them into a society, or lather entered into a combination, and r, by heavy **penalties**, to rvance JIL-Y imagine will raai uperiority of their brend, and continue to tin passives the advantages it uiiiivalLcu ami umlivk!

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8th of September till the end of TV.

The opping Society protection of the prove o

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RAM-LETTING.

THE high prices which have been **paid** to **get** into (his breed of sheep, by a grtat number of **persons** win sense, intelligence, and judgment, cannot the great success that. *I* rally attended sue! indubitable proofs of the **great merit** *o*(**the** I .Ferryman says, ** Hams are **hired for** the season all prices, from one guinea to rive hundred, according to reputation of the breeder, and the beauty and merit o. ml." It is generally understood, and **believed**, **tTat** latter sum I • paid for the use of **a** ram from this county, by the late Duke of Bedford; and also by Mr. Coke, of Norfolk.

Mr. Marshall, i« his Rural Economy of the Midland states the **price** of **ram-letting**, prior to 1780, to have been from one guinea to **ten** for tlie **season**; **in** 1780, Mr. liakewcll let several at ten guineas each ; from that time to 1783, Mr. Bakewell's stock rose rapidly, from

ten to a landred guineas and that year he let two-thirds of a mi (reserving <ne-tho<1 lo It much) to two brenders, for a hundred guineas each : the entire services of the mm being rated at three hundred guineas. Mr. Bakewell made (hat ear, by lotting rams only, more than one thousand pounds. From thence to 1750, the prices kept rising ; ^00 guineas was repeatedly given. In 1780, Mr. Bakewell made J to guineas by three rata-brothers ; 2000 of seven rams, and of his whole letting, full 3000 guineas. Six or seven other breaders made that year from 500 to 1000 guiheas each ; and lie wijole amount of ram-letting was that year about 10,0001.—*Morshall*.

Frofit ilt;n table to the present, 1807, the numb. Is have encreased much more than the prices, but the spirit of enterprizc amon indluui indluui their connections are much more widely extended; from 60 to 100 guineas has, to my certain knowledge been repentedly given for the use of a turn one sensor, into Staffoid mire and Worcesturshing, by farmers who have fouiui their account is so doing, by the great inprovenient n.ide in tlirir now set from the now set from Disliley, and by Mr. Slubbase Astronomic and others, and ;illy into Inl-jud; ii) Sept. 1806, six of the Disbley range, with the shepherd attending them, were unfortunately shipwrecked on their passage to Ireland, in the king George packet, and all lost. Mesars, Homeyboarne, Stabbins, Astley, and others, now make regular itnutd 'excursions into Ireland on the above speculations.

The foil owing particulars and facts respecting sheep, were given me by Mr. Astley, who is himself an eminent breach r, upon an extensive occupation, and whose veracity is far above suspicion : That in 1795, he (Mr. Astley) gave 300 gaineas for the use of a ram, distinguithed by the name of Maganna bonom, being a shear-bog sheep, the DEACESTER) 5 property

property of Mr. Breedon of Ruddingt'41, Otic of the Ram Society, ind had twenty of Mr. Breedon's even with him, the serving of which was valued at 120 guinens; total value of the ram for that senson 420 guineas; that, in 1706, Mr. Astley gave for the use of the same ram 300 guineas, and bad forty of Mr. Breedon's even with him, the serving of which was estimated at 200 guineas; total value of the ram for this senson 500 guineas. He was this senson judged capable of serving one bundred even; the year before, when a shear-bog, he was allowed no more than sevently owes.

In 1797, this ram was let elsewhere at 300 guiness, and twenty ewes sent with him, the serving of them values at 100 guiness, and confined to not exceed sixty more; value for this season 400 guiness; thus this ram has made in three seasons, the cammons such of 1500 guiness.

In one of my excursions into Laucestershire, Mr. Astley shewed ine forty rain-lands, got by this rain in one seasui; they had been all reserved, and were kept in pasture, in lots of ten early; many of them were expected to make capital first rate rame.

Mr. Astley has since then offered 400 guineas for the use of a ram to Mr. Stablins, which was refused; I saw Mr. Stablins's letter, in which, in the most decisive terms, he refused to take less than 560 guineas, and in consequence Mr. Astley resolved to use two of his own shear-hogs instead, which he could have let at 450 guineas each. I was afterwards informed by Mr. Astley's Inilial', that Mr. Astley having a little set his manifupon this ram, had sent him to make the best bargain for him he could, which he had conclipted by agreeing to pay 400 guineas down, and to take twents of Mr. Stabbins's owns with the ram; the aerying of which, and eighty of Mr. Astley's, was estimated at 500 enineas.

Mr

Mr. Antley informed me, that he had rather give 500 guiness than a less sum for the use of a cam-which he thought descring of it ; also, that those who have given the highest prices for the use of rann, have generally made yet so nicely and arstically similar are the ideas of different breesless, that from a minipler of sums, the supe individual ong you have whered as the best, when equitately exatransfloor by one, and without comparison, by a number of judges, and that is is great main instances ; yot the spri-

The terms of the connection between the Society of Ramfountain head of the laved, is kept a secret ; but I have named, pay 2000 gain as per amount; after which they are at identy at Dislamy, complying with the conditions, to make what they can by rem-letting in common with others.

These high prices have occasioned much speculative. conversation, and many persons have suspected, and declared their ampletons; of some collasion amongst the breeders, who have lieve charged with a combination amongst themselver, and a pretence of group high prices, at the same time retarning a prest part of the money, to the delasion of the public, who may theraby have been drawn in to give exorbitant prices, in initiation of others; but this suspicion is now, I believe, entrely donmaway, and the charge universally believed to be fallacious, without foundation, and a simuler upon those to whom it is

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observed amongvt *ihe* principal breeder^ grc lealing : I have m< made jou **them** in com par ere farmers and **sheep**ere farmers and **sheep**ere farmers and **sheep**for improvement^ when I v their for the

where, or petarm there again and 1_{argain} or refuse at his option; nor could I observe the teast engenness or desire in the breeders to class with or accept the offers of any person bidding ever so liberally, it less than what was anpposed the real value, however high the offer, more than in any oil or person .vho lifts an article to dispose of; also, at the same time, their customers and visitors are received with every politeness and attention; and I had several instances of such some as those before mentioned being refused, and no bargain made between the parties.

Among other instances of 500 guineas for the use of a ram for the season, I have the following one : fo breeders have agreed with the owner of a prime ratur other 100 guineas each, for the serving of twenty ewes each, and the owner, in like manner, is to have twenty ewes wied, which is also valued at 100 guineas, making 57 i.e. in the whole ; from this sum there are rams for the season of all prices down to five guineas ; and as one ram u with proper management, serve one hundred ewes, "fill; serving of the ewes at these prices is from five ruin as to one shilling each ; and of this tatter price, I was informed by some of the smaller formers, that they could get their

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one farmer had not every end one farmer had not have been also and the second better than in sibly and the second be the same beach of the new Letter the block

To explain in what way it can possibly pay or answer to give 500 gainess for the use of a ram for one season, either is one or more persons, it must be observed, that it can interes to no other person than to a specolator in runs. If in the above instance the five persons concerned have twenty owns each, good enough for ram-breeding, then they have a good chance, reckoning twin lambs, of each rearing ten runs and ten ewes, or more, of a still higher blood : suppose these ten ram-lambs, when sheathigs, are let out at 20 gainers each upon the average, this would be 200 gainers each, or 1000 gainers, being twice then money main, which, with the reprovement in the ewes bird also, would be a great profit upon the speculation, and sufficient to encourage the breeder to go on.

As the very high prices are achiom given, except by those who either are, or intend to be, speculators in rami, if the subject be considered, the wonder will at ours cease. A neighbour of mine with a pretty good flock of ower, began with giving 60 guiness for a ram for the sensor, from which he got from eighty to one hundred lambs, of a better soit than he had before, and after serving himself with some of the choicest ram shear-hogs, he lets a dozen at five guiners each, or as many in any other way as comes to the same (has lince found it his interest to procure one or more rams annually from Leicestershire ist still higher prices (and, ic-precing the common farmer, it may easily be conceived,

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that five gainess can be no great object to any one for the use of a superior sum, from which eighty or an handred hands may be obtained. Another gentleman in our company, who offered 70 guiness for the use of a cam for the sensor, was refused, except on condition of his breeding no rame, but ewes and wethers only; this he refused to accide to, and the hargain dropt ; and the refused to accide to, and the hargain dropt ; and the refused to accide to, and the hargain dropt ; and the refused for refusing his offer, except conditionally, was his living too near the samletter, so that his becoming a breeder might possibly interfore with the person from whence he dress his stock, on which account not less than 100 guiness would be accepted.

The superiority of the mean of this lateral is now estaon every point : the whole length and breadth of their back is loaded with fat; the sump, hosom, and flank, contain it by handfuls : every just of them landles slick and mellow; they have no course must nor offal about them. Mr. Bakewell reumrhed, very early in his improvements, that the batchers made no distinction between his fat came and wothers, but took them at the snote prior : thus is certainly true of the breed, as I have frequently such raises with only a dash of it, so ripe and fat, and that without any particular pamporing, that when alanghtened, no one, without a nice examination, would linve thought of my other than wether mutton; at the same time, mins of the common or coarser breeds, in their coarser parts, appeared make of it above the half, or two-things, of the prize of prime nicel. The new breed any also withol beint and alert, and sure lamb-getters. I haizers no person who will examine and compare them with other breeds can done

In order to citable one rate to serve eighty or a hundred

user they are not all put to him promiscusualy, but a few at a time as they become in use; this is ascertained by an interior rain employed as a teaser, but with a patch, or piece of cloth sowed before his genitals, in such a manner as to prevent any possibility of his serving the ewe; when a ewe is smalled out by the tenzor, it is taken to the ram, and when served taken away again this last is ascertained by raddling the rain in the boson, with which he mucks the ewe as he serves her, the waste of power amrability in the rant is thus prevented, he having only a few ewes with himr. at a time to keep him company ; the attendance of a trusty shephevd upon the best flocks of the highly improved breed, upon this and must other occasions must be obvi ously necessary, and as the wages of a man heart a stry small proportion to the loss by an incluent happenday to only one shiep, no business can possibly pay better for soch attendance.

The high prices that have been given for even is on the same principle, not merely with a view to multiou and the batcher, but to a speculation in the breed, for the better, the even the better banks may be expected, and a person by this ments may get set stail years to worder, that by the slow progress of improving bits own stock by run biring only, and as the breet, is by no means improved yet in its highest perfection, he who once grins the best may by doe attention keep it, and by this means the Disably stock has maintained its soperativity, calibought many others in the county and teightan about an pressing closely after them.

Mr. Stone of Barrow, this amount 1507, has the very capital ewes put to the roun ; they are served by a capital rain of his own, and by a sincer-bog from Dishing? More of the principal breeders, and particularly force of the Rain Society, have a rath monally from Dishing. All the principal randomina of the best blood are saved for stock.

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Mr. Stone has about 40 o; nt year, they were in October put in I timmer cole, each pen seven hurdles 0 ram la ml) making off to the butt he had spare, which inmost count) uUl lur koned capital one ^formed inc that the iot to let more thau m, and had his n to these, but could let

fide fite autht it of the world, tfiat i that hi luu], fa autht nually T iu the iu

bei 100 Aloin is breeding thek at Doun Dgton Parkj Ottobei 100 accesses and 20 Southdown, the latter kept for earch, comparison, and the apphot his backhip's table, they were earch and an earch of their own appropriate breed; the Lecesser rank being hired annually, they have given as high as 20 genneafor the season. Bendes which, they have two respectable new Leicenter rank of their own given as high as 20 genneafor the season. Bendes which, they have two respectable new Leicenter rank of their own given as high as 20 genneafor the season. Bendes which, they have two respectable new Leicenter rank of their own given as high as 20 genneatice is carefully kept I conceived.

Mr. Ferriman says, " Mr. Watkinson of Woodhouse killed three ewes, that averaged near three-fourths their

anging at

t of marketable flesl: 10 unusual turn turn teS not

				115	-0Z.
Carcase	-	. a.,		144	.0
Fat -	-			15	8
Wool and	Palt		- 11	16	0
Plack	2	10	1	4	
Entrails	- Set.		-	10	4
Bloost	-		1	.6	0

Twenty pounds gross weight gives 14 lb. two-thirds in curcase nearly; a shoulder of the same even cut in the usual manner weighed 191 lb. the bones of the same shoulder weighed only six sunces.

Total 196 4

Mrs. Monk gives th *ivu* wing particulars of a wether sheep, of the Dishley blood, hred and fatted by Mr. Bargets of Hugglescote, and adds, Mr. Bargets was so kind as to send me a haunch of it into Devon, with the particulars of the weight of the whole sheep as under.

			412	CALCU.	
Carcase		- 1	144 or	- 56	per quarte
Fat -	-		16]		
Skin anA	Wool	ALC: N	18		
Pluck 41	ib. Hest		1.8%		
Guts and	Pantich	1.8	- 51		
Blood	States -	1	5		

Total 1921

rather more perfect than the last, to which the head seems

SHEET.

to have been weighed with the carcase, but in this with offair but in the last the pauch seems to have been much more couplied, or the contents not weighed.

Mr. Mont, adds, " the hautich weighed 24 lb, which if sent to on hutcher in Kingsbeidge, to be hang up, (and a ticket fastened to it with the above particulars) for the inspection of the farmers (on a unruch day) in this part of the world. It was very much admired by every person, and I am certain the showing of it has dono more service to this excellent breed, than my talking to them for seven years would have done. Several gentiemen were of opinion, that it was the best mutton they had ever eater, the home of the humch weighed only 13 onnees and a half; my butcher declared it had not so much offal as one be hilled the same day, which was no more than 12 lb, per quorter.

The following particulars were given me by Mr. Stone of Barrow, of the sale of breeding and absurling even and rams, the property of John Wingfield, Eup sold by anction by Mr. Boott, on the premises at Packwell, Leicestershire, in June and September 1807.

Forty runs sold in June made upwards of - 660 One lot of ewes sold at 12 guiness each -200 ewes and theaves, averaged five guiness each 1050

This flock had been beed within the last 20 years; the original risch were 20 ewes, brought from the flock of the inte Mr. Hall of Contex others were purchased at the rais of Mr. Smith of Hatham, Mr. Gilbert of Conti, and Mr., Pense of Brompton, together with 40 procured by the acsistance of Mr. Paget. The only rams used have been two hiredrof Mr. Bakewell, one of Mr. Breedon, two the produce of Mr. Gilbert's even, by a Diebley sheep, one of

Mr. Tomlin and one of Mr. Farrer; the whole produce for the last 16 years has been by chosen mins, hird of Musin. Stone of Quorndon.

Mr. Ferriman says, " a secure to have been the practice of the associated breeders, (of hate years, and I believe it was that of Bakewell) to pat those sheep magedies which we most perfect in shape, without regard to affinity in blood ; their forms may by this means be nost readily meseved and improved, and at fast perhaps it may not the much injury is other respects, but if it is pressvered in, it will no doubt in time, abute the vigolic, which is exactly in themselves; the old Leisenstrative rans, those roughs course, hardy animule, they say will retain their region, and continue to perform an almost unlimited quantity of hardness, to may, it or over twelve years old, while the light bread, paragreed, delings, new Leisenstration, are groundly worn out at four years old, usen through their burness is initial; they inverse rine serve one hundred eves in a mean burne of this apprehension, many other anlogous reasonings might he adduced from the late day of fracey paragrees, game codie, greyhounds, running broom, dot

He don'ts - there is no better method of coconcapite a good breed, than by suching the weatness, flattering use varity, and gravitying the senarce of human nature. Public commendations and large prices will naturally induce menof enterprize and still to evert their atmost almines to uscell one another in the boardy and metholics of their stock ; and perhaps the most methol sort to those who haved for the batcher (the only rational minimatum) is the new keicestershire crossed with those of a more jurity instruca the best old Leicester, or the Southdown which oppears in common practice, and more humanity by some deer-

SHEEF.

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the Right Honorable the Earl of Egremont, wherein the former appears to give shape, the latte constitution and hardiness.

It is related, that a gentleman said to Bakewell, your neutron is so fat but 1 cannot eat it, and that Bakewell IVplied, Sir, I do not breed mutton for gentlemen, but for the public; but even my mutton may be kept lenner, to said every palate, by stocking harder in proportion, and by killing the sheep in time.

3. The third variety of sheep in Leicestershire are the forest sheep; these are principally confined to Charuwood, and are now some white and some gray faced, with legs of the same colour with the face; covered with a bestard, or coarse combing word, mostly pollard, but some with springs of horus. Mr. Bakewell was of opinion, that this forest, as a sheep walk, was a real hors to those who had a right upon it; for if one man who has this right turns sheep upon it in the spring, and mother gives a farmer a fair price for the keep of the same number of equal value, and if both florts were driven to mailter at Michaelmas, the difference of price would more than pay the explanes of the keep; and that this would hold good either in sheep or cattle.

Weak-Lord Maira's wool of 1807, was sold, the Leicener at 27% the tool of 28 lb. ; the Southdown at 40%. for the same weight, the former about four, the latter eight or ten florees to the tool. Mr. Stone informed me that the heat Leicenter wool had brought 20%, the tool, whilst the come Lincoln was hardly worth 21%, the average of Leicenter florees, taking in the strong bound sheep around Melton Mowbray, and in the vale of Belvoir, are, 1 suppowe about four to the tool; but Mr. Stone says, the improved Leicenter sheep will not average so much, and probably it requires five of their florees to the tod; and he
SHEEP.

further, that the growth of heavy wool, and the most institut are incompatible, and that the true criterion of either, or both, is not by the head but by the acre.

Folding, of sheep is not practized in Leicestershire, or at least har hide, except in the few remaining common fields; the only instances I met with of it, was a Queeniborough, where Mr. Grahame folds 200 upon his whest fallow in dry weather, and sometimes gets over 15 acres in a season; he believes that it injures the sheep, but assists the fallow; for patticulars of folding in the common field state.--Sug Char, VI. ENCLOSING.

Food .- Mr. Ferriman mys, the sheep in the old enclosures are bred, reared, and fattened through the whole of the year, upon mitural grass, without assistance from furnips, cabbages, or any other food, except a little hav invery severe seasons; in the newer enclosures, usar the river Sour, and on the west side of the county, sheep are fed in summer upon ald pattures, and towards sultann upon artificial grasses; generally red and white clover, and prefoil mixed; in the winter upon turnips, kept grass and hay, and sometimes cabbages ; but these latter are found not to yield so much nutriment, as an equal weight of tuitings; in the spring they are kept upon stable turnips, hay and kept grass, and afterwards upon vay-grass, and carly pastures. Mr. Bakewell frequently nationed has sheep in stalls, and Mr. Honestionene reports that they were generally reconciled to their confinement, and began to feed in three days at most ; but father than this he knows not, or is not inclined to communicate.

Min. Monk states, that Mr. Bakewoll carried on experiments for three years, to ascertain the proportion of food rates by different breeds of sheep, in proportion to their weight, which all tended to shew the great superiority of the Dishley blood. I fluenced myself he would

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SHEEP.

have permitted me to have taken a copy of his minutes, but I was disappointed. Mr. Balleyrell offered to lead me some of his sheep to make the same experiments, but my non-residence prevented my having that pleasure.

Mr. Amsworth says, sharp should be fed in summer apon the varieties of common grasses in the field, in winter on the Swedish turnip, and cabbages, and should have open covers, to shelter them in the orght, littered with straw to preserve this daug, &c.

In addition to these resources for keeping sheep. Messrs. Stone, and other principal breeders upon arable farms. sow rae, or cole socil upon early ont, and other stubbles, for feeding excs and lambs, or other sheep in April ; also follow cole is sown for rams and run-lambs, and other choice stock, the beginning of winner or the autuma ated to turf land : mother principal resource for the rans curly in spining is the Swedish turnips, which are then washed clean, and cut in slices by Hanford's machine, and thus given in tronghs, to rams, or other prime stork. Mr. Stone's shepherd informed me, that three hushels per day. are thus given to 10 abcept they are very nultitive, and food ; I believe a little cut straw is sometimes added. Itappears from some experiments by Mr. Fowkes of Rotheley, that calibages as food for sheep, are not equally nutritive with turnips; he found that a certain weight of cablinger, and not lay on so much firsh as an equal weight. of turnins ; this fact agrees with the theory of Pr. Darwin. in his Phytologia, who describes the scale of untilment in vegetables to be thus; 1, their seeds or kernels ; 2, their fruits and roots; S, the alburnum or bark; 4, their flowers, as those of the articlicke, cauliflowers, Stc. 1.5, immisture seeds

SHEEP

with their husks, us kidney hears; 6, flowers after their expansion, and 7, leaves.

October 8th, Loughborough. Mr. Honeybourne a few days ago turned 100 lambs at large into a piece of Swealish turnips, to eat off their tops, which they are doing without touching the roots 4 the tops afford a great deal of keep, and he supposes the roots will seceive no injury, and seail out fresh shoots; he is thus saving his pastures against winter.

He sometime upo turned a lot of lambs at large into appiece, containing summer cole, Swedish turnip, cabbages, and common turnip alternately; they began, 1, on the cole; 2, on the tops of the Swedish turnip; 3, on the cabhages, and at the end of three weeks had not touched may part of the common turnips, nor the roots of the Swedish.

The general idea here is, that the most nutriment is received from 3, cole and 2, Swedish ; and by Mr. Forker's experiment the cotherion termips should come before enhbages, however, 1 have no doubt but the most nutriment of the four, is from the roots of the Swedish, which in the above case were protected by their hurdness.

Kept gives, has been named as a food for sheep, and it is a practice with the best managers, to sheat up in September a piece or two of pasture land (being then eaten down level and bare) to the spring following, for ever and hands; or if for cattle until the first shoots of grass, mingling with the automout herbage, is found to render the whole more wholesome and nutritions to stock, then either of them would be separately; and this preserved pasture is more to be depended upon, as a certain and wholesome mapply of early spring food, than incomes or cabbages; though the Swellish turnip from its certainty of standing the winter, has rendered a less quantity of kept grass ne-

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T undt i ban on meadow aftermath.

All fir ihhy for she. cold 1 wet 01 tonami proper place, tha[!] lath rams for a few MI to keep llicm from taking cold; this will last three or fi

There is uo objection of the leadows hi winter, or at any time be titii' and Ian fooi

 Arr. 1 says, ' providing writer for sharp does not apply the set of the set of

Michaelmas, (0 II thiu to lamb earl ilcially here the;n put to in the season mb In; hen tli ">r tun

SHEEP.

loss of a lamb of this breed, even in a rfiaderate flock, cannot be less than a guinea loss; the ewes in this state must lie often seen night and day, as assistance is frequently wanted, and if not at hand the life of both ewe and lamb are endangered, although the improved breed is supposed to bring forth easier thau the coarser breeds, from the fineness of their shoulder bones; yet as the legs sometimes come wrong, they cannot then lamb without assistance, if neglected in that state, both dam and lamb must be lost.

This breed of sheep, especially the young ewes, are often bad sucklers, and if the young lamb should be weakly, and can get no nourishment, and the air should be very cold and sha. p, he will soon perish; one criterion of a good shepherd is he who loses the, fewest lambs, in proportion to his number, and rears the most, and this nas in some places been very properly made the subject of a premium ; with good management and attention, 100 ewes of tli s breed should rear 120 lambs, and so in proportion; the shepherds are sometimes day labourers paid by the week, and sometime servants in the house, hired at about eleven or twelve pounds per annum.

House lamb, is not known in Leictstei shire, and but few ft om good flocks fatted upon ^f.he ewe; the he lambs for wethers, are castrated at $_$ bout a month old, and the operation *s performed *by* slitting the: scrotum, and drawing out the testicle, it is customary at the same time to cut their tails, conceiving that the loss of M0..1! at that point, contributes to lessen the inflammation in the scrotum, and it is further thought, that when they are grown up, they are less liable to collect dirt and to be blown with flies.

Slipping of lam¹) is thought accidental; turnips are judged less proper for breeding e*\es, than some other food, as picking at kept grass, rye, stubble cole seed, cabbages, or

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early spring grass ; lambs are very rarely shorn, nor other sheep but once a year.

The young wethers, here called shear-hogs, are put to good paysture at one year old, after the first shearing, and killed at or before they are two years old; the new T,eicestershire on good keep, in mild seasons are soon ripe, some are killed at fifteen months and much earlier; a good many are sold out of the county at Michaelmas, to put to turnips, keep on and finish in other counties.

The average profitable weight is about two-thirds of the live weight, there are instances of a greater pioportion, as in the cases before stated, wherein it approaches uearly to three-fourths.

The most common marking is tar, grease, and ruddle, but it is in a small degree injurious to the wool, on which account the best graziers content themselves with ear mark* ing. Small sheds of hurdles are erected for the best rams, and covered with hurdles and straw; in most other cases the hedges are thought sufficient shelter, though it is very probable great advantages might be derived from light moveable sheds, properly constructed for other sheep.

Various are the contrivances for washing of sheep. Mr. Bakcwell had a sheep wash boarded round, ami supplied with water from a main carrier used for floating land; in other cases they are washed in a running river, or large pond, but it is agreed on all hands, that a small supply of fresh water, is better than a strong current; when the water is a little turbid by the sweat from the wool, it scours better, than when it is perfectly clear and bright *.

Very

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[•] Artificial pools for washing sheep are formed upon small rivulets, byn akingadam across in a convenient place, with a flood gate in the **made**, by which the water can be ponded up for the occasion, and

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SHEEP.

Very skilful hands will shear sixty sheep in a day, but from twenty to thirty is reckoned a good day's work ; the fleeces of some of the old breed would weigh l£lb. but the new Leicester do not average more than half that quantity. If wool is well managed, wound up tight, and put dose together in a dry room, it will keep for three years or more without much loss in weight, or damage in quality : it is sold to wool-staplers by the tod of 2Slb. 5 a part is manufactured in the county into stockings, but the greater part is sold in Yorkshire, for coarse cloths and tammies.

Mr. Ferryman says, about thirty years ago smearing was tried by a few, for two or three years, and then discontinued.

I asked Mr. Honeyborne for chemical secrets respecting sheep, and if he had any respecting preventing the fly-blow, and maggots, or destroying them when produced; but he says he had none, but that he depends upon care, and good shepherding; in short, that he prefers care to chemistry.

Mr. Frisby, of Waltham, recommends, and practises, the dipping of lambs in arsenic water, to kill lice, and prevent the attacks of the fly; a pound of arsenic is boiled well, and dissolved in soap suds and water, then poured into water in a tub, and farther diluted with water, to kproper warmth and quantity, so as to be sufficient for twenty lambs; in this solution the lambs are immersed singly, and laid in a rack on their backs over the tub to drain, squeezing the moisture out of the $w \ll 1$ by hand; two or three persons will dip thirty in an hour: the proper time imme-

let off at pleasure; on one side a pen is formed, and *on* the other a paved path for the sheep to ascend; they are also in, some placts washed in a roomy stagnant pond, where the buttom is sound, **and** the water clear enough for the operation.

diately after shearing the ewes; one clipping destroys all their lice or ticks, and generally preserver them through the summer from the fly of the maggot; this account was corroborated by two or three of his neighbours, who are in the same practice. I believe care should be taken not to dip the lamb over head, so as to swallow the solution. Mr. Frisby reckons his fleeces from three to three and a half to the tod.

Distempers in Sheep.—Mr. Ferryman states! that two spoonfuls of spirits of turpentine to each sheep were given by Mr. Woodroffe of Leak, to part of his Hock, which he thought were in danger of suffering from bad weather, and unwholesome keep; many of those which had not the turpentine died of the rot; all which had it escaped. What gave occasion to Mr. Woodroffe's experiment I know not; but it appears from some letters of Dr. Jenner, published by Dr. Beddoes, that hydatids, are found more or less in the lungs of almost every adult, both of men and quadrupeds; whilst the animal is in health, they are not injurious, but if made weak by unfavourable seasons, unwholesome diet, or any other cause, then they become more active, work their way deep into the lungs, and surround themselves with a horny cyst, the part becomes diseased, tubercles are formed, and the chief springs of life soon injured and destroyed; seated as they are deep in the lungs, and guarded with a horny coat, it must be difficult to assail and dislodge them; nothing seems at present more likely to succeed than some kind of factitious air, or spirits of turpentine, for nothing enters more readily into the circulation, and pervades the whole frame more completely: the urine of carpenters who work in fresh deals, is sometimes very sensibly affected with turpentine. **Dr.** Jenner directed a patient of his to wash bis hands in spirits of turpentine, which brought away a number of hydatids in the

urine,

urine, and gave relief; if such then is the cause of the rot in sheep, and the other facts being as here stated, may we not reasonably indulge a hope of some day or other knowing a cure not only for the rot in sheep, but for pulmonary consumptions: this subject is yet new, but it is in able hands; and 1 hope that the public, and the Board of Agriculture in particular, will afford Dr Jenner every possible opportunity of examining animals dying of this disease, and of perfecting this among his many other valuable discoveries.

Dr. Darwin says in the Phytologia, the rot in sheep is caused by the gourd-worm, or fleuk-worm (fasciola hepatica) of Linnaeus. This insect is to be found in ditches, rivulets, and the livers of sheep; it is about the size and shape of a child's finger nail, is licked up by sheep in summer from wet pastures, and creeps up the gall ducts from the intestines, and preys upon the livers of sheep; it soon erodes the liver, causing ulcers, and the sympathy of the lungs with the liver occasions a cough, and a hectic fever, from the absorption of the matter; a consumption and death soon follows if left to its course ; the proximate and predisposing causes he supposes to be, the bUe becoming too dilute from too much watery nourishment, whence it does not possess sufficient bitterness or acrimony to prevent the depredations of these insects: salt and water is the simplest remedy; but he thinks hay moistened in, or sprinkled with salt and water, would be wholesomer for them if they would eat it, or 60 grains of iron filings made into a ball with flour and salt, given every morning for a week, might be efficacious.

It is well understood by the Leicestershire breeders, that sheep take the rot by grazing in water meadow land, after summer floods, all nature beinfKhen in a state of animation from warmth: and the insect dtofflKtate en the wet `tr

"t ^ 5 * . milliace. surface, is then licked in by the sheep with its food: no danger is apprehended from water-meadows from the first frost to the return of warm weather in the spring, the water in winter being too cold for the habitation of these insects; the true management therefore consists in preventing the disease, by grazing sheep in upland during summer, by draining such upland, and freeing it from surface water; and a plentiful use of lime is supposed to make the land, and the herbage it produces, wholesome and kindly for sheep.

The red water is believed to be owing to the extremes of keep, from very good to very bad, but most fi equently when changed from bad to good, aud it is thought here incurable. Mr. Watkinson has used a preventative for thirty years, and during the whole of that time he has not lost a single sheep by that complaint, though it was very fatal to his flock before the *use* of the medicine, which is as follows;

Two ounces of myrrh, boiled in 60 table spoonfuls of ale; he gives three table spoonfuls to each lamb about Mi-. chaelmas, and never repeats it.

The foot-rot is cured by paring the hoof close, cleaning out the dirt and matter, and dressing the foot with causticks, butter of antimony or aquafortis; the former I believe the best; the foot should aftei wards be kept clean by keeping the animal out of the dirf; some wash the unsound foot with lime-water, and others drive the sheep upon quirk lime strewed on the bottom of a penn or fold; the disorder is believed to be infectious, by a sound sheep tfeadigg on the putrid matter.

The scab is always cured by topical applications, by tofeacco-water, by mercury and grease; by sulphur, soap, and lard; or by vitriolitic lowered with water; the last is the most efficacious, but it requires care and skill in the application, * The

27%

SHEEP.

The cause of the rickets is not well understood, and the cure never attempted by medicine.

There are many remedies for the fly; tar water; spirits of turpentine to dislodge the maggots, and white lead to dry the parts; the best shepherds dissolve one ounce of sublimate in one gallon of spring water, and then add three table spoonfuls of spirits of turpentine; this applied to the fly-blown part will destroy the maggots.

It is thought necessary to change the pasture for the flux, and to give rhubarb and ginger, or dragons' blood and ale.

But the best flocks of Leicestershire are preserved from most of these complaints by care and attention, and a good shepherd would be ashamed of having a fleece broken or disfigured by the fly or maggots; they are so much with their flock, that from habit and acquaintance they can instantly perceive when a sheep is deranged; and the effects of the fly would be prevented before a maggot is formed, by destroying the nits with their fingers, and all or any of the other complaints would be arrested, in the first instance, by drawing out the sheep, and keeping it separate from the healthy flock, in some small close adapted; insomuch that a disordered sheep is not to be seen in a well-managed Leicestershire flock.

It was remarked before, that all the principal ram lambs of the best blood, are saved for rams, by the first-rate breeders; if any of these grow out of form, they are cut for wethers at about a year ol<j; the spirit for ram letting remains undiminished, and it is very probable that 30,000/. per annum is now made by it, one-third of which may bo within, and two-thirds without the county.

It -appears from the opinion of the best physiologists, amimedical philosophers, that Bakewell, in his efforts to improve live stock, hit upon the true principle of improving

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their

their forms, by selecting the most perfect males. Dr, Darwju sa\s in Phytoio-ia, the male or site gives suture and external form, and the female manners and habits; the 'wool is also much affected by the male. If a polled ram)be put to homed ewes, the horns will soon be *done* away in the progeny. The most r *j>id improvement in live stuck is, therefore, to be brought about by care in t|ie choice of niales.

A umbers kept on a given space. —In Cii A P. VI! I. ON GRASS LAND, it is estimated thai 30 sheep may be annuity produced from 50 «cres, half-shear hogs, and half ewts or theaves ; and under the article CATTLE it is supposed, that the pasture land reserved for sheep ^mounts to

128,000 Acres*

To which	add h	alf the	green	crops	of the	
pounty	-	-	-	-	-	20,000
			Ţota	l sheej	p land	146,00Q

for the s^{ke} of round numbers, I will suppose the sheep ground of the county, green crops included! amounts to 150,000 acres, and that 80 are the annual produce of 50 acres, and the whole county thus annually produces 240,000 sheep; and if, as before calculated, 100 ewes rear 120 lambs, this produce will require 200,000 ewes; from this figta the sheep stock of the county will be as follows:

Shear-hogs [^] rams, and theaves • Total sheep stock	240,000 680,00a
Lambs reared	240,000
Breading was just to the rom	

SHEEP.

As the first and the la 4 classes only are shorn, this will give the number oi ikeces at 440,000, which at four to the tod, gives the produce of wool at 110,000 tod.

Part of the weather stock is sometimes kept to a greater age, but in that case ewes or younger stock must be parted with to make room in the pasture; and it will thus make little difFerence in the general produce of the new breed. Mr. Ferriman reckons the fat shear-hogs at 125 lb. the quarter, and the ewes at 22; but as the largest proportion of the ewe stock must be theaves, of which the strongest are taken into the breeding flock, instead of ewes drawn off. I believe the average of the ewe stock sold off, ought not to be reckoned at more than 20 lb. the quarter; also though the strong sheep kept in part of the county are of more weight, yet they being stocked thinner on the ground, this circumstance makes little difference in the general result, which (from the foregoing data) may be stated as follows:

Annual produce of sheep in Leicestershire.

} 20,000 shear hogs at from 50s. to 70s. each,	
average 3/	360,000
120,000 ewes cjrawn off from the breeding	
flock, and theaves to spare from the young	
produce, at from 40s. to 50s. each, though	
some may be higher and some lower,	
average 4os	270,000
110,000 tod of wppl, at Is. per lb	154,000
-	
Total annual amount of sheep -	7 B4,000

These calculations are clearly uncertain, and I suppose high enough, and such as will hardly be realized without the

the best management both of stock and pasture; the above produce of sheep from 150,000 acres, of which 130,000 acres is grass land, and 20,000 acres green crops, is 51. 4s. 6d. per acre, which is not much too high, when it is considered, that labour and expenses of every kind is included, as well as .risk, and interest of capital. I sup* pose that with this stock upon such land, aud good management, from 1/. to 1/. \s. per acre may be made of wool shorn, supposing the land wholly applied to sheep, and from 4/. to 4/. 45. per acre of the sheep, making in all as above from 51. to 51. 5s. per acre; of this one-third will go for rent and tithes, another third for servants and labourers wages, taxes of every kind, wear and tear, and incidental expenses, all of which it is not easy to think' of, or point out; and when these are paid, little enough will remain for house-keeping, and provision for a family, and for old age.

From the above data the produce of mutton per acre may be thus calculated, 10 acres gives 8 shear-hogs, at 25 lb. the quarter average • - - ' - 800lb. And, 8 ewes, or theaves, at 20 lb. the quarter, ditto - • • • 640 Total 1440

Which is 144 lb. weight of mfitton, bred and fatted per acre.

SECT. III.—HORSES.

FROM many curious anecdotes related from one generation to another, from extraordinary facts, preserved in the,

the archives of some of the oldest families, and from certain old parochial registers, Leicestershire seems to have been always eminent for a useful and beautiful breed of By an agreement amongst the occupiers of black horses. lands in the parish of Whneswold, it was made unlawful for any man to bring a mare into their common fields; stallions being thought more grand, and therefore the only beasts that were fit for the Wimeswold farmers to use. The farmer's chief pride was in his team of horses, and it frequently carried him into very blatneable lengths; he very often bestowed that expense and attention upon his horses which, by the immutable laws of nature, belonged to his family and children; and many instances might be collected of families being entirely ruined by this false pride, and preposterous folly.

In such a situation, and with such other advantages as Mr. Bakewell possessed, he could not be long in making a selection of strong and fine horses; but where so many very good ones were bred, and amongst so many experienced competitors, he found it difficult to take the lead, and nothing less would satisfy his restless and aspirin; genius.

In company with Mr. G. Salisbury he went through Holland and part of Flanders, and there purchased some West Friezland mares, which excelled in those points wherein he thought his own horses defective, from which with great labour, expense, and judgment, he produced some capital horses, and in particular his famous horse Gee, the noblest, and most complete and beautiful creature of his kind that had been seen in Europe. How far his elegant points were adapted for the labour that horses of this sort are principally designed to perform, is a question perhaps undetermined; be this as it may, beyond all controversy he was strong and handsome, and commanded the admiration of all who saw him; for a time he was the first subject of conversation, and almost the wonder of the day; he was taken to Tattersall's, and shown there to the nobility and gentry, with great approbation; and Mr. Bakewell had the honour of showing him personally to his Majesty : he is said to have been very quiet and docile, and Bakewell in describing his points, invited iiis Majesty to touch him, which was, I believe, declined. He was killed by lightning in his pasture; a son of his wasf afterwards sold to Mr. Inge, of Thorpe, for a large sum. The above mostly from Mr. Ferryman.

Leicestershire is a horse-breeding county, and has, for time immemorial, produced more than are wanted for its own use. Mr. Monk says, great numbers of marcs are kept for breeding, all of the large black sort; the produce is sold off when foals or colts, except what are wanted to fill up vacancies in the teams; he calculated that there are upon an average in this county 150 horses in each parish, reckoning all sorts, and every kind kept; and the county containing 200 parishes, gives 30,000 for the number of horses kept in the county : this I believe to be over done, and shall give my own calculation.

A good many blood horses are also bred in this county, but these principally by gentlemen for their amusement. I saw some beautiful blood mares for breeding, the property of William Herrick, Esq. at Beaumanor, but he never introduces any himself to the turf, Mr. Astley, of Odstone, also breeds and keeps a few highly bred horses.

Mr. F. says the young horses are taken to market from weaning time to four years old; those for labour are sold at from 10 to 40 guineas each; young stallions at much higher prices : colts, after weaning, are kept in good upland pasture, or in clover, with an allowance of corn daily

from then to the next spring ; the second winter they **will** do with hay, and a few oats in hard weather.

Working horses are sometimes soiled in the stable part of the summer, upon vetches, clover, or mown grass; which Mr. F. says a.:e best cut one or two day9 before they are given ; but they are more generally turned out to grass in the night, with hay and corn given them morning and evening.

In the winter they are kept in the stables, and fed with hay, cut straw, chaff and corn; the corn is given whole, though it is the general opinion it would be better bruised or broken; a different opinion is, however, advanced by Dr. Darwin in his Phytologia; he says, "feeding horses with ground corn does not strengthen them so much as giving it whole; by their chewing and breaking it themselves, the Kaliva is better mixed with the masticated food, «iid in greater quantity. Some few trials have been made to keep horses upon potatoes, and upon carrots, and they have been said to answer extremely well, but the practice is not any where persevered in.

Horses, if taken good care of, will continue to work till they are 16, 18, or 20 years old, and sometimes longer.

The following account of Leicestershire horses is, in part, from Mr. Marshall, who has continued it down to the year 1796- As Mr. Marshall was for two years near the spot, it seems well worthy of preservation; but less attention has been latterly paid to stallions at Dishley, their principal efforts having been for some years directed to sheep.

Mr. Bakewjell bred many other capital stallions, that were shewn in London, and another named K, covered many years for five guineas each mare; from this he Jiad then* down to one guinea; and in some other hands they were as low as half-a-gumea a mare: the price given by the scaighter a season, for a good stallion, 40 to 80 or 100 guineas, and by purchase from 50 to 200 guineas; and in a few particular instances a good deal more*

At Ashby, in this county, is an annual show for stalliona, on Easter eve and Easter Monday; they are all of the black strong breed, chiefly young horses, rising two, three, and four years old, some to be sold, others to let for the season; thirty or forty are generally shown.

Places of sale.--At the autumnal fairs of Ash by-de-la-Zouch and Loughborough, and more particularly, at the fair of Harborough, October 19th, great numbers of foals arc taken for sale with their dams; the foals only generally for sale, there are also a number of colts of maturer age; many yearlings, and of other ages', from this county, are also taken to the autumnal fairs of Burton-upon-Trent, Rugby in Warwickshire, and Ashburne in Derbyshire, as well as to Stafford and Rudgeley, June 6, at whicli places, they change masters, but are often bought in by Leicestershire graziers, who kopp them till they are fit to work, and then sell them again at some of the above fairs to arable farmers, or dealers, in Buckinghamshire, Berkshire, or the more western counties, from whence at five or six years old, many of them find their way to London, to which place they are finally sold for drays, carts, waggons, coaches, the army, or any other purpose they turn out to be fit for ; thus Leicestershire is a part of that nursery which supplies horses to the metropolis, and for other purposes whicli could not possibly be supplied, but from a rich grazing county.

Mr. Monk has stated the number of horses, of all kinds* lept in the county, at 50,000. Mr. Ferryman thinks four or five are kept to every hundred acres; but if breeding mares are kept, from six to nine may be necessary; but he cannot mean acres in the gross of all sorts, but arable

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land liable to cultivation; the quantity of this	s latter de-
scription in the county, besides permamenl grass	, &c. Ihav*
estimated at 240,000 acres; if to every 100 of	this we al-
low four horses and four mares of working as	ge, it gives
19,200 working farm horses and inares; supp	ose half the
mares breed, gives 4,800 foals, and half of th	ese.sold out
of the county, or not reared, leaves 2,400; s	suppose the
same number one year older, or not finally	sold, gives
4,800 young horses or colts, and 19,200 of w	orking age,
as the total stock of strong horses, in all -	24,000
To these add 10 to parish blood-horses	or
hacknies	. 2,000
Young horses or colts of the latter descriptio	n,
and miscellaneous horses of all denomin	a-
tions	(2,000
·	<u></u>
Total ·	28,000

And that these are sufficient to do the work of the county I have no doubt, as well as to produce two or three thousand colts annually more than is sufficient to keep up the ' county stock of horses.

The present horse system at Dishley is this: three or four very capital black stallions are constantly kept, sometimes more and many more have been, before the rincipal attention was directed to sheep; these are occasionally worked, and are always rendered docile enough for that purpose, if wanted; those kept at home cover at two guineas the mare, and those let out never at less than one guinea. Eight or ten brood mares, of the same stout black breed, are also kept, but no geldings; these do all the farming work of between four and five hundred acres, with occasional assistance from the stallions, as wfcl as from bullocks and heifers; of the mares, all that are fit

are put to the horse, of which three are reckoned upo* the average to rear two foals, allowing one in three for casualties; and this system of brood marcs, of the strong black kind, pervades a large proportion of this county, and who shall gainsay or contradict this practice with effect, so long as a capital two-years old colt will often bring from 30 to 40 guineas, and that at the breeder's or at any of the popular fairs. 1 was informed that at Hai borough fair, Oct. 1807, colts of two years old past sold at 35 guineas; the present common average price or pi une stock of this kind, may now be thus reckoned; a ooh at weaning-time 10 to 15 guineas; ditto, one year older, 20 to 30 guineas; ditto, two yeais elder, 30 to 40 guineas; and if the practice of rearing such colts were discontinued, or prohibited, from whence must the demand for stiong black dray or road-horses be supplied, as well as some of a secondary weight for coaching and the army, except from where they now are, Leicestershire and Derbyshire, prin-If this subject be properly considered it will apcipally. pear, that agricultural horses are here pFinripaliy a nursery for raising a supply for commercial purposes; for self-defence, for convenience, and for supplying the demands of luxury; and that so far, independent of their comparative utility against oxen, they cannot be dispensed with.

Respecting the number bred, whether it be too many of too few, the price at market will always tell; if the price were low for any length of time, I believe the breed would be neglected, and the only way to .substitute oxen for horses, would be to abolish or prevent die demand for the latter; but so long as that continues they will be bred, and whoever bieeds them will have part of his stock fit to work ; and if that be sufficient to do the work, oxen will not be wanted, or only in part, as at present; the subject therefore naturally resolves itself into this conclusion : horeea

i y in great numbi I rich, coor oial, ant! luxurious country, for other pui of agriculture ; they can only be prod and ti) be bred by I • to su maintain that In: inch I e, tends to enerease the comfort and hap, ;vi*lu*.

The staple food of horses, when lept the stable in the sta hay and com; but greeu food is sometimes given. vetches, green cloves, canrols, and Swedish turnips ^ and I cannot but .strongly recommend a generation of the latter as horse food, wit en washed and sliced by r 1 fords cutting mathematical and a label m and chaff, they would make excellent horse food for the wontha of March, April, and ihe beginning of May, till fetches were ready, and and and aid go and and and aid go acre in the keep of horse and the group. If half a hundred weight per day, was!ed and cut were given to each hereight with 7lb. of ints and three of beans, with a good supply hay; and putting the crop at 5 ton per acre, an a would thus last seven horses a quarter of a year, and hes might succeed to supply the through the mer.

Mi month and ball of a second second

DEICESTER.]

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М.,

Ir. Wilkesj \yho kept a great many working horsr aUv: b witlui B, and often 1td them with mown grass, give i, and returned their dung and wet litter to ud this he maintained the m both of keeping tbc horse and improving the land.-

Thi mption by h< ud the quantity of land necessary J r supp pt at present, may ho estim 1st For working h A bushel oi md a peck of beans j

will be nearly the produce of two acres each horse per annum to tonly --- ---

GK i given in the stable, in the ing, or er in the a all for : months ______

Hay given in the stable I n wiiir, at a qu; : u hundred per day, t i oue quarter, from _____

Each how

ц.

41

000

Of

The horse remains creditor for the aftermath of tbt; ound, which i allowed to make good deficiencies in the hay, or in other food ; the above is a very good allowan i a horse may be thus very well kept land.

For colts, or young hoi I corn is only generally given to these in winter, or in severe wealh res per head for grass and hay, and halt' an acre for com will be a good allowance, per head ⁽²) aci

>'or the sake of round numbers, I will sup-

pose the number of working horses of all

Colta, or young horses, 6,000, at 21 ditto

£90

 •I other green crop
 ▷o
 reckoned
 50

 •I other green crop
 ▷o
 reckoned
 50

 •Iand for hay, clorer, and pas[
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As the average pi i tins 11 mu to obable that tl. supplied from soniev *i* of corn land.

The above allowance of CO: other i liberal; b lerstand m I Oil. ht of i

way to 'ing brea th of land with : potato* iruary I allowance ficient • iftus w<

Respecting increase and decline of value, the horses and mares kept for the use of the county may be reckoned, upon the average, worth, at one year old, '10 guineus ; at two years old, 20; and at three years old, 30 guineus ; after which they remain stationary three years, and then

0 2

Acres.

114,000

HORSER.

Lord Moint are two or three drabins fallions of great beauty and value, one was shown me which cost 2001. carriage over, 1 was going to touch him, but was suproved not to do it, as he is a life indu

The shoeing and harness of working farm horses may be reckoned one guines per annum, and their decline in value after their prime two guiness per annum more; but they must decline and die in the hands of somebody, and therefore, in a public view, it is not surferial where that harpens. The most **common d** ;rs of **vroikiug horses** act 10 **Mr. Ferritnan**,

Int. The staggers, which a very violent compliant, and generally proves fatal : Junce's powders and bleeding have been used, and sometimes with success.

2d. The colle, for which Glauper's salts are given; er ale, com_{ne sugar, and ginger, boiled together.}

tiECT. TV.— .

Asset i are used in m:u plate of the county for carrying burriers, and have been lately inirndiu-id as farmer's stock : at Lord Moira's two or three are constantly kept. for carrying UtH; int, cabbages, or other green food, for the supply of live stock; they are worked by boys, or supermuturated old men, or by women, and are, perhaps, the best stock that can be employed for clearing green crops from strong land in wet weather a their step being light, and not p. achieve the lands they will easily carry two hundred weight; and an uss has been known to carry. 40 bricks, of silb, each, as its common barden, and will thus do a great deal of work by perseverance, with the assistance of those who are too weak to manage horses. Sonic have the paniers constructed to open at the boltom, to let out a load of turnips at once, spreading them afterwards; and this stock is approved by all who use them.

At Lord Moira's are also two very stout stallion anes, of 14 or 15 hands high, for getting stock; they are, I believe, of the Spanish kind; one of them was offered to sale by auction when I was there (one being thought coough to keep); the price offered for him was 36 gumeas, but he, being valuen at 50 gumeas, was bought in, and

2013

they

ML"

both remained in hand ; they cover at one wu the £roora. .Asses ai food, with thistles, briars, and c browsings, or a little strav

SECT. V .- MULES.

ESB are
this count), When Asi.
1 have seen n good many mules grazing th
I have seen n good many mules grazing th
If a dozen
they ai
t or t'
nf with a can;
itland with dit or t'
itland with diIf a dozen
they ai
nf with a can;
itland with ditravelli
length5 possessed of tn < lincss,
ind perseverance, thmn horses, and can
on much coarser (bod ; their duration and longevity is «ur-
pr;
is will begin to work at the line is and in the pi on
licr draught; and they n:

M been in the preference of the second secon

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animal an

Dr. Darwin says, the nulle produced from a horse and a she ars, resembles the horse externally in his cars, mane, and tail, but with the nature and manners of an ass.

But the humus, or nulle, from a male ass and a mate, resembles the father externally in stature, ash colour, and black cross on the shoulder; but with the nature and manners of a horse.

SECT. VI.-HOGS.

T; is improvedent of hogs in Leicestershire has been attended to with the same care and unreas, as that of other live stock. At Dishley, some yours back, a finebound sort, of small dimensions, had been carried to great perfection : I have seen there a hog of small size, schen lean, fatted to 20 score weight, or more; his level, height, and dickness, being nearly equal; belly touching the ground, the legs being enveloped in fat, and the eyes scatterly to be seen for fat, the whole appearing a solid mass of flesh: "I have measured a small bog, tilled there, 15 inche and a half through the chine-

Mr. Amery, at Oilstone, has a very capital breed of swine;

HOGS.

swine; thpy are rather of more bone and larger mak< those mentioned above, and will either ripen into good >tk or bacon, of ite size, or may be fatted I grea¹ hey are always in good i >n with any fcind of food On my mentioning th< -nail b» fne Dr^lii ie, Mr. Astley ed, they were adapted for gentlemens* pigs, but ho thought his breed bet! farmers, and for general use- I think the swine at Di^hley are now of a somewhat larger make, tl) boned and delkoff- .v raw | ; the fat onen an ue flour o v_r or pulse, ni I with v* refi Lilly ma

When I was there, I took measures of titree strine, of which the following are particulitrs ;

Ko. 1. A boar, i i stock.

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I th from nose to rump		5	4
Gitter tndtlie should*		5	4
Thiciaiti&s at the sliou	-	1	8

This boar served now al one guinc: ach, of which many were sent, and some from considerable distances has some pige were solid at we may also, tor bt edge, at has guineas each.

: fat pig, alive, weight b}

Langth from	ose to rump	1-0	4
Girt round	the bells -		8

This was of the sow and, cut young, termed provincially, in the midland counties, a gawt; of which word I do not know the derivation.

No. S. An bog, by estimate of ment 30 score, but alive, and with the above, not intended to be soon killed, hut kept on as proof pigs, to show what the breed will arrive at :

Length

HOGS.

In.

The following remarks on Leicestershire swine are by it Fcrriin: *B whom ! have also oil, valuable rem , wilt iich he I acquainted.

it Mr. it Mr.

vrill produce two litters in one verify to the boar, and vrill produce two litters in one verify to the boar, ally fed with whey and other verify and offici of the base, dairy and I farm, through ihe who littered to be best is kept all it I. constitution to receive it, and it is also reckoned best to by given warm, but that is seldom practised, except by good housewives; they are generally fattened upon basiesincal, and peace or beaus are given for a few does before they are killed.

The best such are so constructed, that the wet all drains away; the trough is sheltered from the wet, and the sleeping part is day, close, and warm; and well supplied with clean day straw.

Mr. Ferriman details the following method of preserving brewers' grains, as being practised by a gentleman of great observation, observation, who informed bim, that he has for so rue time wen in the practice i large k, with fine li n to drum isput into l.hr cask ii ab^ut one foot thick ; salt is put bel moisture, and kept tat with a knife in small for hogs, or o -act ; I ahd ba> them t

the b; and good flavoi

He ii to ro tut ami :• ires in and fon pastures ; *Oat* fed in ti H with i , as tui den, boiled tn i with jjood effect, i llj with the addia little

Icons the number of ht to beabout Light to; but ;ipersons keep hogsw!>i, I suppojiiiinherniay be reckonedequal to half the TIUI;unminlly Itulerattlertiele (midbe 15;it i suppose but little par}.

SECT.

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A'T. "VIK—RACDIT5.

RABBInot much attended toi county asarticles; but Iitileandbetter iunuton.

Upon Rotheley Plain, however, I saw a good number of rabbits, bui had no opportunity of being informed of any particular system of management concerning them.

ses a few **rubi** ty, and foj able bailiff complains **that t!** *dam* **upon the Swedish tu**

r. Ainsworth d almost ever)' mouth; but land, ll uld do i ted fo; onie • and onie • and one of and do

SECT. VIII .- POULTRY.

DUCKS, goese, and the other varieties, are kept abent gentlemens' and form houses and cottages in the country, but are articles of secondary consideration to farmers, who, after the supply of the table, generally resign the profits of them to the females of the family, for their care and treakle in attending to and feeding them. Mr. Allesworth says they are deserving of much attention as articles of profit, and relates as follows : 1 know a poor woman who

VOLT

S—BEES.

very lately reared some chirkens and ducks, took them to market and sold them well, and bought a pisj with the money; which succ. 1 my mind with a lie sensations; t attend and n^s cvuere, r^s

SEGT. IX .- PIGEONS.

'IGEONS are not Ainswurll: that, except urly hough lhey (like montl); they too are a gr. at market; ihcir dung is vt attention.

It niay^ howeverj be ob* principally on usfeful not 1< but perhaj , to m< '•: ; and they some misclii haps their numbers being \< not to be c e*J a public evil.

SECT. X.—BEES.

an profit the busiced of the busiced

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DEE8.

pro informed they ar tended to in Flanders, that a certain farmer near Louvain, sold a thousaii a annually at about five shiK

There is, **however**, very great i ring, to any tain and settled climai Darwin sa great nuu. of bees must $\$ $\$ to the prod of li ud sti;j **dapted** they also injure li products of v< .;s, by plundering the anther di bee-bread, and also td i* the antl against rain ; **nevt** is **mankind** coi use the products of bees, and as the products 01 *hk* in sufficient abundance, *he* ged.

Tlic bees of hose oi other, and **pluud** att ant part of the second secon

CHAP.

CHAP. XV.

SGC

RURAL ECONOMY.

SECT. 1.— LABOI'H.

Wages for a servant man 62 to 122 per annum ; and a had from 32 to 52 ; dairy-maids from 31 to 52, and some few more.

Services are mostly hired from Michaelinns to Michaelmus, at public statutes, of which many are held in the county. Various opinions are held, whether these meetings are advantageous or pot to the interests of agriculture. Mr. Monk decides against them, on account of the case with which servants not places, without reference to clin-

LABOUR*

the on' -ilier at some in the vale of Belvoir; in ti turn lo a kind i romp, and have, I think, a tendency to dissipati

an account of P :ute, pt 271h, to which he ne out of Lei< tershire 2 a Warwickshire, bu! ,) the oumber of in the statute-yard has been estimated at from two to throe thousand ; »ervants f. rul miles round consider themselves at libel on that d_i

But *hi* lie hirii wed by the respectable judg; ite the mi mis of servants, to raider I led in their pk. and to expose tin and it certainly i foim- days, and au aiikwardue; wards.

From 1794 is somewhat adva*. now two and of] 113, pai ing apparel, in whk cularly aho

As Mr. Monk • determined of provinces in a good deal 11 man, & The following were the common prices in 1704, and *hi* LABOUR.

Price of Provision's 1704 from			Price of Provisions at Aikly					
	Mr. Mouk.		1807.		07.	Jan. 1802		
		Di		Store and	D.	D.	1	2.2
hroe	D	;>er Ib.	1.00	Bett	5.0	7-6	0	6
	Mitton	45 10 13		Mutton	С—	-01	0	0
	Veal	44E	-	Veal	6—	7	0	F.
	Latub	401	-	Lamb	41-	—0	С	0
	Pc	00	-	Park	0	-01	0-	7
	Bacon	00	12.72	Duceser	r)—	-10	0	0
	Cheese	5—0	-	Cheese	6—	_7	0	7
	Butler »	0		flutter	14—	-0	1	*

Grain per Qv international series in the Bushel,

	S.	1000		S.		34	
Wheat	72	Sec.	eat	70 to	78	7T	4
			Rye	46			
Bin	42	-	Barley arage	e 42		SC	0
Oats	51		ditto	33		S 3	0
Bat grain tw	vo years tx	e hud	Genna Uitto	52		C-I	0
much cl	heaper, about	two-	Blue oease	63			
ards of the a	bate pr		flog pease	52			

In 1807, the best svlieaten bread wan ordered to be sold by the magistrates at *il* r Jb- and household at 2rf. per Ib. neyily.—See ASSIZE OF BREAJJ, ARTICLE SEAT, CHAP. VH.

.tite/.—The soita of fuel burnt here ai od; tbe former in plenty irom the mines of Di•: rithio I ;utv: the price at Lord Moi works on Asliby ' . pt-r hundred, De her ,i in t!. the ps district^ *itb'iv*. per hu , but mm tin?

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LA LA UN.

labourer in 17 \wedge .Monk, Is. 6d. per fay, ;ind bee:to Is. 8d.; it is now 2s. wilhou; beer, and med adv;in the last> tabo,:audbeor in the summer quarter, but iin of tbe earnings of a lal-*aryexpences,-ir. XVI. SEIPOOR.

Prices of kinds of labour in this two iods of **tin**

From Mr. Marshall.	Pr.; ces in 1786.	Price in 1807
Servante.	J. S. 1. 5	Ly 8. L. 3.
A degener	8 to tO 1≪»	0 10 14 0
Maid	r) =	4 4 0 0
Youth	1 4 5 21	4 4 6 6
Lud	2 2 3 3	3 3 4 4
Day Wages.	D.	8. 1h.
Labourer in winter	1 9 Lcf r	2 0
Do, 11ay time	1 6 diuo) 2 0 to •
Do. Harrest -	2 0 and '	j and i wet
i) common	0 6 data	0 8
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1- PER.]	x	. But

LABOUR.

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But screw-iron work, and other requiring particular attention, is from 6tL to Is. per 1b.; the advance in ironwork in 20 years is about one-fifth, or 20 per cent., chietiy in the labour: the advance of all kind of farming-labour may be reckoned in the space of time about one-third, or full 30 per cent.; but the advance in provisions is more, being nearly as two to three in butcher's meat, and h» grain also, by going ba\$k full 40 years*

In January, 1808, Mr. fngle, of Ashby, gave me the following additional prices of labour and implement*, and also assisted me in correcting some of the former ones.

	10.454	D.		
)eing turnips per acre effectually, first time	0	7	6	
Second time	0	9	0	
A good ditch, per rod of eight yards -	0	0	2	
leaving a hedge ditto -	0	0	6	
Digging per rod of 64 square yards	0	1	0	
A single furrow plough, complete	3	S	0	
A double, or two-furrow ditto	6	6	0	
A pair of harrows, ditto	2	15	0	
A schuffler of the best sort	9	10	0	
Narrow-wheel waggon, complete	.40	0	0	
Ditto, cart -	16	0	0	
Six-inch wheel waggon, complete	45	0	0	
Ditto, cart -	19	0	0	

CHAP.

CHAP. XVI.

30%

POLITICAL ECONOMY

IT DOME DEGREE DEFENDANT UPON LEGISLATIVE AUTHORITY.

SECT. L-BOADS.

THE Roman roads of terest with sector I shall just a! count of them from KTicbora History .;eslers: and,

1. The rcct road enters LeicestersL Dovc-bri' >m the Avon at Dove-bridge to t!. ur near Maui and not fur from Atherstone, north-west direction; it is the south-west boundary of the couuty for near 20 mi].-.

The f f re, enters this ; at or near the Roman station Veroometum, thence to Seggs'-hili over Thru- Q Wolds, CTOSSCS the Wreke near System, thence througli Thurmastorr to Leicester, passes near king tichard'a bi 'hen turns to the i r the second i o; *i* over the meadows to the rough turnpik' '-, continues with it to the four I s it, and aie town and church of N&bow>ugb on t] muea to High-crw

Th< JXA Cokhestw to Chwttr, enter

this

X-2

ROADS.

ibis county near Coltbgha an passes Melbourne, near Statist' t;n-thc common bridle way, passing (bush, by Norton hedges, between ¹ to Stought ; MK) over Ids to the i of Lciv oss, but pj it to Grobv, vi here Lnrd Stamfon tbencc indinili, a quarter < south-v s Ash by lo Bin ton : ll. man</p>

The public tornpi) croads of this county are generalized good repair; and many in them being great thorough fores, much i ted by travel! and heavy Lmt h. easily krpt in report at a moderate expense, and to which *\hv* tolls collected at the different toll **attention** *i.A*, though En ever observed I: at the state of t in Leicestersliire. The count is seen and and trads in gravelj but the principal lavi's foundation for, and repairing roads, is the stone of Charnwood Forest, raised upon the hills or swells, from whence it is a down hill convesance to most parts of the rounty; this stone is carried for this purpose many miles, in all directions, to n irts of I inty. 1 grai to mature, and \ cars well, aiul forms a smooti. Tobel, after having been broken with a bounner into small precess, anr, iU to be had in ineslmustible qua.

Jin jndiflei in the u inter st. the north-east of the cot, :, where the pi their i of suiainer

but

ROADS.

but 'jeiiig scarce or distant, th- tftit to the iucuuvenii < toiler than be :it the trouble them, and rcpuir road

A to B, the soil taken out four yards wide and nine mches deep, a cubic yard in a yard forward, and to be I illed with liTird will the solution will the solution will grov B. b' L thee yards wide each side, and four in the middle, total 10 yards wide : greater roads will require more width, one row of post and rall is set along each side, near c c, and mounds raised from the ditches d d; a margin halt"; and wide, being left between the ditches and mounds for plantforming tins road v about 2s, the perch of 8 yuds; Vie expense of filling up the undile with gravel nunst depilk! U; on local curc>'»stundes, or distance the gravel is to be conveyed; it will take two cart load in a yard forward; drains from the toud to the outer ditches will ulho be tranted in places, the expense of the msunds and ditches as well as post ind

x ji

LABOUR.

rail properly belong to the fencing of the enclosure. I particularly questioned Mr. Wilkes, whether he thuoght there any particular economy, or saving in fonmng conc« roads; but he supposed not, but gave them the preference upon other principles.

Mr. Mouk makes the following remarks r

The turnpike roads it) general lerably good ; ar would be much better, if it were not for the very heavy narrow-wheeled waggons which are employed in the carriage of lime and coals. These vvaggons cauy five tons weight each waggon included, consequently it is impossible that the roads can be good where such weights are carried upon narrow wheels. It is to be **fcoped**, when the different cahais ar *ie* wag ?id by; and then, and not till then, good roads may be expected in **thiacou'i**

I met with a **variety** of opinions respecting the proper form for roads. Some ave, others tor couve\', and **others** were for them rjnii

Ait II and Mr. Wiikes are advocates for the uly thi rice of in:: the middle /. though flat abutit one-third of the width, with a HnaJI -lope from the sides to the middle, where t! placed, ami an equal ; lual descent, sufficient i otf the water from the middle. The road by Dishley, and that through Measham, are both upon tⁱ. are certainly in much better order than the roads round about them. The road 1 through J under the direction of Mr. ; and Mr. Cl informed *me*, the road is b. ^v than m-<*i* it before, am! kept in •it; ot the roafb made o are carried up so

ij in the middle, that it is dangerous to pass by the *t*:

LABOUli.

a carriage, for fear of turning over. When the loude made in this form, abutments are cast up to hold firm the materials.

Others say, that should be perfe*. a proper fall to carry of the water, which may be alvt gained at a small expense: they argue, that upon lives very part bears its equal proportion • which i; they wear not state to kept in or the at a much less spectrum but that the other roads bear the erested property of weight on the lowest parts, which es them more liable to be put out of order, and of course the standard expense. 1 do not pretead to be a side in the should think, the more even the pressure, the bolter it must be for ihe road believe no on* it it must be much more for carriages in point of draught. A gentleman o^{\wedge} ihi county (very equal to the task) has premised to turn his thoughts upon the subject of makiujf roads at some future period.

Crostare many mdividualsj who bftven fcl aexpense in repairing the cross rethrough their; but in many parts of the countythey are infamously bad. Indeed, great part of them are octo be cailed roaioihing more thau pusthrough U;ipun the turf, and inmany of them not ihe leasti is to be r>r nfew mtlee, you have an in-\e uumbtto open; and in most oiroads it i>le to p;uss w-ith a carriag

t u great number of their pasture¹most si 'lirougl hi. ooe rut Keafi ih,

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tABOUTt.

ami so on tilt the field is injured to a v, pst degr 'here is a *i*] rather path, leadi; i village, which is so shamefully that it is of no use. what. a pasture ; and, what rv, this held **runs** parallel wilh the ! to a great **length, and** the p going **through** it. Tins is iion thing. It is impossible to estate the hundreds of a -ojled by this **shameful** pracinke proper roads? 1 am certain it would be 1 with much I ^ense to the landholder, and aid be much more convenient both to the traveller and farmer. The former would have the satisfaction of a I, and the latter tht* pleasure of seeing hi* cattle ize in SOUP ires, imdisturbi era.

by no means wish to give offen ny person : but 1 link it a duty incumbent upon me to state fa

r. Wilkea MI support of the concave road, observed to me, that the gravel lies thick middle where I >ing, as in the dit es, by which i i·; '}, • i declivity iu n from wash and repair the road; howei i ul situations drains into

It is very certain that good roads have been formed upon this principle, and are said to be kept in repair chanper than others, but notwithstanding this, the greater part of the new formed or modern improved roads of this cottilty, a d of the kingdom were originally formed upon a convex principle, though many of them are now worn down flat; the goodness of a road depends in a great measure upon a sufficient

Sig

IKON HAIL-WAYS.

31

lockage

of w:iti;r; with these essentials, a road may be goo.

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 ither theoretical than practical; whi
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SECT. IK-IRON RA1L-

HA : in formed in this county v

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CAN'ALS.

lockage on these lines necessary, rail-ways were substitute^ a»d they are, I believe, -the best mode of artificial inland conveyance, for heavy articles next'to canals ; but the sum expended upon them seems to be enormous, in proportion to the length, and can only be accounted for by the tunnel, deep cutting, and embankments; indeed the whole expenditurt[^]upon the Ashby Canal and its dependences seems to have been a profit of money. The late Joseph Wiltes, I {. who was treasurer, from motives of liberality, patriotism, and public spirit, us a friend to coinmerce wished to see the barges of the Trent float over the hills of Leicestershire and Derbyshire, and taking an active part in the business had the canal constructed upon that scale; in con quence, by tin: extra expense of tleej _____ le cutting", wider and higher arcbes for bridges, extra backing up the avenues to such bridges, a tunnel upon a large scale, and the romp' 1 spirited manner in which the work executed, the money was a spended before any of the lockage was constructed, and the communication ivitb the Trent remains **undone**; that to the high ground h by means of the rail-ways above named, and the canal, i more ited by canal buats only. nig from 20 to £4 tons instead of Trent barges of 60 tons, having no communication except with the Coventry Canal, which is constructed for such buals only.

SECT, III.—CANALS.

The Ash by Canal i and navigable from Ash by Wolds to the Coventry ('anal, near 30 miles in length, on a level without lockage; it was intended to have beeu continued

CANALS,

•cotitinued to the invited ile part of the Trent below Bqrion, and with that is the meted for barges of 60 tons burnens but (he money to the amount of $\leq 1.80,000$, having been expended, tin- line to the Trent, on which is a tuuu lerable lockage, lias been abandoned, and rail; ways substiim a subscription ground.—(ri i v. THE LA ARTICLE). I U« ha* this caiml, au au £0 3 and which has been many years in use, has yet made no dividi lic suit laved upon all occasions, took between 80 and the share originally , £lW, and has also opened and established on it* banks mine, and a very considerable iron work hby Wolds, nt an espei uxci former lik(anau'er, the latter not at present, there being a great competition in the trade of iron.

on or acar the UIK Soar, si inucl of ti licr places carried out by lex 1, the IUMJ from Le: .iowu l! alley to the Treu^ with I branch to Loughborough, and this latter continued over part of Cli canal or i , to Cole-orton colliery, and the Cloud hilllitnc woi f, of no j the not used, c heaper at LI Loughbo-.re:] am informed, howthe I iltogether is a good trade of Leicester aud Loughborough kei ; it ia conslni it a es thai nuvigate t¹

3. The Melton Canal, from the Leicester Soar mavigaou ulong the valley of the Wreke, to Melton Mowbray,

CANALS.

and **continued** to **Q&knxm**, and capable of being continued to Stamford, **to thenavj gable port** of the **Weila**

•4. Grantham < n the Trent le vale BeWoir to Grantham, with a [arge reservoir to colltct winter water; has cost -£]QO,000, capable nf being continued to the sea, at or near Boston j .s to pay five per cgnt. Ti onto the \ of Belvoir, where the roads in winter were dreadful, but now lime and coal can be conveyed there with ease at pleasure, as well as other heavy articles to and from Grantham : this is likely to become a good concern as the ei>uninrproves, und which it uill be a means of racilitatin

5. Ui.i n), from t! at Leicester, byway of Harborough to tht: N*n at Northampton, and intended to communicate with nal; but has* been progn untoward circawnceSJ) thoti ⁵v making toward Harborough, and a good many workmen employed on August IS07, in coustructing a bridge over the turnpike road, and extending- the cai;

Jalf a million or more has b on th≺ culations, without in general the expected]>rotits: ilu-Ashby Canal has yet made no dividend, though I unifcrnd it to be in the receipt of so , a ytar in tounage. These great public works are a convincing proof, and wonderful instance of ib> of enter) isting in the people of this coimh >roject bill kind having succeeded well, and turned out very pro(itable, 1 iha raj.: which lms to a fpi 1 :md extent ti of the case required. I should much don I Ashby Cunui becoming a fair a I upon the expend

Lutter worth, April, 2, for horses, cows and si September H>, forditto hd ehe

Market Bo9worth, **May** 8, for horses, c^ows and sheep ; July 10, for horse* and cows.

Market Harborough, April 29, forfiorsrs, cous, sheep ami hogs; October J9, for tew days, for ditto and *fo*;. cheeseialso is a capital article all the **ten** days; also for pewter, brass, hats and clnarhs, and !i.:iiher the last day.

Melton Mow bray, first Monday after **January** 17th, a show of horses; Tuesday for horses and horned **tattle** - AVliitsim Tuesday for horses, horned cattle, and August 21, for ditto and swine.

Mount Sorrel, July 10, holiday fair, toys, fee.

Waltham-on-the-Wolds, .-inber J9, for hoi cattle, swine, aud goods yf all *sorts*; also for Mr. FrisbjV s.

SECT. V.—T.t.TCESTF.nSIIIRE MARKETS; ACCORDING TO 1M LENGE.

1. Leicester—Saturday.

2. Loughborough—Thursd

i 1 i nek ley—Monday.

4. Melton Mowbray—Tuesday.

5. Market Jla-rborough—Tuesday.

b. Lutterworth—Thursday.

7. Ash by-de-la-Zouch—Satu.

8. Market Boj>\vorth—

Billesden—Friday.

10. HaUaton—Thin

11. Mount Sorrel-Monday

12. WaLiham—Thursday.

5

SECT.

WEIGHTS AND MEASURES.

"Therefore, we order our treasurer to pay to *every* person and persons, who shall inform against any one offending against the same laws, so that such offender or offenders may be brought to justice and convicted, the sum *of jive guineas*^ over aud above the penalties (viz. 4Os. and the value of the.corn sold) which such informer will be entitled to upon such conviction.

"Resolved, that we will not, from and after the said 10th day of November next, 179S, buy or sell cheese, corn, or grain, in any other manner, or by any other weight or measure, than the standard weight and measure.

"Resolved, that we will contribute to any further legal expenses which may be incurred in prosecuting this business; and that such persons, who shall he desirous of subscribing to *this* meeting, may pay their subscriptions (Cs. 6d.) to our treasurer.

** Resolved, that Mr. Owen, attorney, of Atberstone be appointed solicitor and treasurer of this meeting,

"Resolved, that these resolutions be inserted twice in the Birmingham, Coveutry, Leicester, Derby, and Nottingham papers; and that 3000 hand-bills, containing the above resolutions, be printed, and circulated throughout the counties of Warwick^ ^tafford, Derby, Nottingham, aud Leicester.

" Resolved, that the thanks of this meeting be given to our chairman.

" RICHARD ASTLEY, Chairman."

Notwithstanding all this, I believe but little alteration lias been made, the ancient custom of any particular market still remaining, and the buyer and seller understanding ¹ other, make that tho governing principle ; of liquids, le should be sold by the measure of **GB**¹ cubic inches to ie gallon, but it is generally understood this measure is LEICESTER.] Y curtailed

SECT. VI.—WEIGHTS AND MEASURES.

THE laud measure of this county, and of the whole kingdom, is, regulated by what is termed statute measure, which is I suppose founded upon some real statute, by by which five aud a half yards in length and bread ill, making **thirty** and a quarter square yards, make one perch \land forty such perches or 1*210 square yards, make one rood; and four such roods, or 4840 square yards, make one **acre**.

But for running measure, as hedges, ditches, &c. and for digging, there is a customary perch, P°l« °r rod, which in this, as well as the other midland counties, cunlaius eight yards in length, **SfIO such** being a mile » or wfeea squared as for digging, **contains** (H square yards, 75 of these, aud 40 square" yards over being an acre.

Corn.—The corn gallon is founded, I believe, on a statute, by which a cylinder of 18 and a haif **inches** "wide, and eight inches deep *shall be deemed a statute bushel; this contains 2150 four-tenths cubic inches, aud from ihi^the com gallon is deduced of 2^8 eight-tentbs cubic inches; but instead of selling by such measure, the customary bushel of the county varies from eight and a half to nine gallons, each one b g be has a right to make *v/hat* measure he pleases, provided it be as much or more statute measure.

In like manner ch-sold at 1*20 lb. the hundred weight, in stead of !1£ lb,, which is supposed *aud* deemed 3 legal hundred weight; but the seller ?uppor««s he has a right to add to the number of pounds to the hundred, if he thiuks proper, and the buyer agi*« im it is so done. Mr. Monk sajs, the folk

WEIGHTS AND MEASURE

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Jug weights and measures, and enforcing duo obediruce t° the laws, appear to me to be highly praise-worthy; and **i** tin tier myself **that** every other county in this kingdom will follow so laudable an example.

" At a general meeting of the several chairmen of the Atherstone, Li'chfield, Bos worth, and Ash by Zoucb Committees, and of many gentlemen, farmers, aud others, for regulating the buying and selling of cheese, corn, and grain, by the standard weight and measures, held at the Castle-inn, in Tamworth, in ihe county of Warwick, the tyth of October, 1793, Richard Asfley, Esq. chairman, resolved, That, in order to call forth llie attention of the public to an obedience of the to the standard weights asures, wo empetitive the standard weights znetul all farmers, millers, maltsters, and others, to bay gbt gbt and measure only, and uot by any other weights and mea-▶ . Resolved, that we will, from' and after the JOth day of November next, 1793, cause to he put in force the Jaws relating to the standard weights and measures, so that the offend *convicted*; be brought to justice and **convicted**;

** Resolved, that it appears to this meeting, that the methods, which have been taken to prevent the abovementioned laws being violated, have not bnd the desired effect; as well also, that no regard hath been paid to the determination of ihe Court of King's Bench, in Trinity ¹ m 1792, in the case of the king against J. Major; nini also to another determination of the same eourt in Trinity **Term** last, in the case of Ihe King against J. Arnold, whereby the justices convictions were affirmed ; but that the same laws continue to be evaded and broken, to the verv detriment of ihe public, and more especially of that useful body of people, **tfc** ...miics and Inborn whose welfare **we sincerely wish** to promote :

" Thereforfi

curtailed by the retailer, and that what passes for full measure is only the wine gallon of 231 cubic inches, and that the smaller measures are made in that proportion.

Wool is sold by the tod of 28 lb. avoirdupoise, being two stone to the tod of 14 lb. each ; cheese and other articles of food are of course sold by the same weight to the pound, except fresh butter, which is often made a little over the 16 ounces, by the dairy women who take it to market.

The general measure for grain in Leicester market is, as I was informed, 34 quarts or eight gallons and a half to the bushel; whilst according to Mr. Johnson, he sold his oats at Ashby, at nine gallons to the bushel, and between these two measures, I believe the custom of the county fluctuates, except in the article of malt, which is seldom sold at more than eight gallons to the bushel*

SECT. VII.

RESPECTING the price of products, compared with, expenses, in articles of great or general demand, tlie price is sure to find its fair level by competition; for if the profits were considerable in any such article, numbers would be soon found to speculate in the trade, and to push a sale would offer at an under price, till it found its proper level, and this is the case with every article of necessary food except bread, and the public are very probably asreasonably supplied as they would be under any interference from legal authority; the price of every article, clearly enough depends upon its plenty or scarcity, in proportion to the demand; and they who possess articles of necessary necessary food, must either have bought them or raised them at expense, which is similar* and are as much under the necessity of selling, to satisfy other demands, and sup* ply other wants, as the manufacturer of goods, and the competition between different growers, and in different markets, will generally fix a fair price to the consumer.

SECT. VIII.—MANUFACTURES.

T H E principle manufactures of Leicestershire are, wool combing, woollen yarn, worsted, and stockings principally or wholly of worsted, the rnanufacture of which employs a great number of people, not only in Leicester, Hinckley and other towns, but also in the principal country villages throughout most parts of the county.

According to the returns made under the Population Act, the acting population, or number of people employed in trade, within this county, amounts to upwards of 42,000, whilst the number employed in agriculture falls short of 24,000; the number employed in trade is, therefore, to those employed in agriculture nearly as seven to four, and of these, a very large proportion are employed, in the mauufa.ture of wool into stockings.

In the town of Ashby are considerable cotton works, erected and set on foot by the late Mr. Wilkes, which employ a great number of the industrious poor of ail ages.

In Hinckley and Ashby a good many hats are manufactured ; in Castle Donnington and its neighbourhood, a great many' of the female'sex principally are employed in the manufacture of patent net lace, for lady's veils, &c-

COMMERCE.

dependant I believe upon Nottingham and its neighbour hood.

Mr. Monk says,." the manufactures of wollen varn and. . stockings are lately much increased, and the landed iuterest much benefited thereby;" if so I met with many, who are insensible of benefits received. Mr. Watkinson informed me that poors' rates \ycre enormously high in his neighbourhood, (but this was in 1801) which he attributed to the number of stockingers, who could not maintain their families; and were sometimes, when out of employ, set to work by the farmers; but he observed, they made but iudifferent labourers. . Mr. King also informed me, that upon the Duke of Rutland's extensive demesnes, poors⁹ rates were low, as there were no stockingers, and care was taken that there should be none; the fact is, that with, the increased population, occasioned by manufactures^. poors⁹ rates increased also, but the, consumption of landed produce is thereby increased, and the price advanced in proportion.

SECT. IX.—COMMERCE.

THIS county is well accommodated with commercial conveniences, the Trent washing one of its borders, and the Soar, its own natural river, being rendered navigable into it, and for many miles through the county; this with other conveniences executed or on hand, give it a fair share of commercial advantages.—SEE CANALS.

The principal manufactured export of the county is stockings of worsted, and this must be very considerable from the number of hands employed, and has also hats, cottons

COMMÉRCE.

cottons and lace, as before mentioned to spare: it also sends a large quantity of raw wool into Yorkshire.

Of provisions, cheese is a considerable article of export, not less than 1500 tons per annum, according to the beat information; the produce of this county, going down the Trent for the metropolis, or the use of the navy ; this at 60s. per hundred, amounts to *«£90>000.*

Of steep, a very large number bred in this county, are sold fat to London and Birmingham; half fat to farmers in adjacent counties to be finished on turnips, or in store condition to farmers to breed from—SEE THE ARTICLE SHEEP. Of cattle a great many are also fatted in this county, more than it consumes, and sold to London, Birmingham, and the populous parts of Staffordshire; these are in part bred in the county, and in part bought in from elsewhere.—SEE THE ARTICLE CATTLE.

A good many excellent strong black draught horses, and some of the blood kind, are bred in, and sold from this county; in hogs and butter, I suppose it to be nearly in statu quo; respecting grain it lias barley to spare, but certainly a deficiency of wheat, and its oats and beans are eaten by its own horses, as well as its green crops and hay, by other stock.

In minerals, coal and lime are both imported and ex ported, but it would have a deficiency of the former from its own supply ; it can furnish itself with English timber, but in common with the kindom at large, requires a supply from the Baltic of the foreign sorts, as well as of all other conveniences and luxuries of foreign produce.

Respecting the effects of manufactures and commerce on agriculture, as having a tendency to increase the numbers of mankind, and therewith the consumption of agricultural products, and to add to the general riches of the country, their effects upon the whole cannot hut be salutary; the great consumption of wool in the stocking trade, under the very eye of the grower, must encourage its growth, and enhance its price: the same may be said of provisions in a populous neighbourhood, and as good properties and fortunes are often acquired by master manufacturers, and in commercial speculations, from the natural tendency to realize, the value of land in their neighbourhood is in* creased; for the value of land generally depends upon the population and riches of its neighbourhood, and the more populous is any neighbourhood, the more inducement, and even means there is to improve the soil, and its value is thus doubly increased, by actual improvement, and by increased demand for its products; that manufactures may 'sometimes, and often do occasion local inconvenience, must be admitted; but when we consider the resources and riches of the nation, and how far they have been caused by manufactures and commerce, on which they are still in some degree dependant, as well as the improve* xnent and flourishing state of agriculture itself, the benefit and general advantage derived from them is too evident to be called in question.

SECT. x.—POOH.

THE poor of this county are, I believe, in as good a situation as others of the same class elsewhere, yet when we come to consider it, and calculate particulars, it must be pronounced rather pitiable. If a labouring family con-*i\$ts of a man, his wife and four children, they will consume

POOR.

sume in bread per day, if they can get it, Is.	S.	D.
which is per week	7	0
Rent per week Is. 6d.; milk suppose fig	d 2	0
Cheese or butchers' meat 2 lb. per day Is.:		
per week	- 7	0

Per week necessaries - 16 0 but the gflius of a labourer and his wife will seldom exceed upon the average of 15s. per week, whence it appears that the above allowance must be curtailed, and privations sustained; potatoes from the garden must be substituted in part for bread, and the cheese and meat allowance lessened, for which a pig should be substituted, fed on the premises from the garden and from gleanings; hence will appear the necessity of furnishing labourers' cottages with sufficient gardens and a hog-stye, if the family is to be kept from starvation.

The gains of a manufacturers⁴ family are more, and may be put at a guinea per week; but even then, if we make the above allowance for necessaries as stated, there remains only 5s, per week for fuel, candles, soap and cloathing, for the whole family, which are equally necessaries; to say nothing of tea, sugar, butter and beer, which if not necessary to existence, #re at least necessary to comfort; the labourers' family is placed more on a level with the latter, by an allowance of beer from the farmer, as well as coals drawn, and sometimes other privileges.

*Poors*¹ rates.—It appears from parliamentary documents, that the sums raised by poors' rates in this county were in 1776^{*}, i£6,S6O, and in 1803, £ 107,568 ; increase in 27 years more than four-fold: this last is stated to have been 5s. ggd. in the pound, upon an estimated rental, but probably not much more than 3s. in the pound, upon the real

y 4

annual

annual value of all property.—SEE POORS' RATES. CHAP. IV.

Mr. Ainsworth says, " in the parish I lived in, I served the office of overseer of the poor, more than once at one shilling in the pound; but in the year 1795, in consequence of the war, and the advanced price of necessaries of life, I had-four shillings in the pound, and it did not do. J believe in the county it may now average five shillings; in great towns six shillings, and £ have just paid a poors' rate (in Leicester) at two shillings in the pound, for one quarter (the above are upon an estimated rental). Manufactures, he says affect and raise the poors⁹ rates; their employment is unhealthy, by too much sitting and cenfiuement in one posture, and from the effects of confined air ; this brings on consumptions and premature deaths, and poverty brings the wife and children to the parish; this shews that the great author of nature designed the field to be the occupation, as well as the support of man/'

Mr. Monk says, " a gentleman informed me, that from a pretty attentive observation he had made of the habits and manners of the poorer classes, that a very small proportion indeed of the expense of supporting them wafs to be attributed to the sober and industrious poor, whether labourers or manufacturers, the* immoral were generally idle and profligate, and there -were few villages where their bad habits were not conspicuous;" that'mending the morals of the poor would lessen their distress, is not to be doubted, but it is too much to suppose that a very large proportion of such distress can in the present state of things be avoided.

Mr. Ainsworth, who seems to have had experience on the subject, as well as to have studied it with some atten-. tioq, observes, " the situation of the poor is deplorable; and

and general as it is to excla --gainst- them, I am of opinion that encouragement would rrake them better; little noticed while they are wearing out tlierr strength for a bare subsistence, left unassisted or scantily supplied under sick*ness or accident, so that they are depressed their whole lives after. In regard to sick clubs, some cannot be admitted through-a^e or infirmities; some are prejudiced against them, and some to my knowledge cannot spare from their families the weekly subscription ; and when their labour is totally over, they have no better prospect in view than the tyranny of overseers, a badge of disgrace, and the confinement of a workhouse, the entrance into which is to deprive them of the little property they had with hard labour attained by the sweat of their brow and pinching frugality; poor incitements these to care and industry. I could wish by no means to give offence to any, but as I am more conversant with the lower classes¹ than gentlemen can possibly be, 1 honestly and concientiously declare this [^]picture is not exaggerated. Would to God it were! I fear it is not in the pouler of the philanthropic Board to give die spring of encouragement, to communicate. the most extensive relief to them; if they could, they would bear the nearest resemblance to the source of all good, who showers his blessings with a liberal hand on all without distinction. If a large population be the strength of a nation, it occurs naturally that the lower classes of that population are entitled to'legislative assistance, to ameliorate their condition; and as every one thinks they have some natura[^]ight to the use of the ground, so mosL[»]persons are Willing to assist in harvest. Lund originally was open and equal to all, and though one acre of land enclosed is worth more to the community than many acres in its natural state, yet when this appropriation first began, the poor were deprived of their egress and regress; to compensate

them

them for this loss, * public fund ought to be raised and supported by people of property, to pay annuity's to the aged, infirm, and those in distress, by which means the .contributors would soon be gainers by abolishing entirely the poors' rate."—*Aimworth*.

It appears from the observations on the Poors' Laws, by the Right Honourable George Rose, M. P. compared with other authentic documents, that the sum raised by the poors' rate in England, in 1803 was - <£5,161,813

The sum expended on the poor in that year 4,267,000

Of which law suits and overseers* expenses took 190,000

It may therefore be admitted as a general rule, that ip -every five pounds raised by the poors' rate, one pound is applied to other purposes, as county rates and constables, churchwardens, and other expenses, which to save trouble in collecting are in many parishes paid from the poors' rates.

There is no reason to suppose the poors' rate has increased since 1803, as the seasons have been generally favourable, and corn comparatively reasonable; the average annual sum now raised in England, upon eight millions of people, by the poors' rate, may be called five millions, this is i2s. (3d. per head upon the whole population; of this four millions is actually expended on the poor, and the other million applied to other purposes; the assessed rental of the kingdom is 24 millions and a fraction, but the property tax near 34 millions, the poors' rate is therefore 4s. £d. in the pound upon the former, and not quite 5s. in the pound upon the latter; the number of poor persons relieved were 83,463 including children in workhouses, at ^12 3s. 6\$d. per head ,£1,016,422 ft 11\$ -And 956,243, including children re-

- lieved at home, at «f3 3s. 7 id. per head per annum - - <u>3,042,053</u> If) O Total relieved 1,039,711—Expense 4,058,476 15 114 Twelve

• Twelve in a hundred, including their families are paupers.

The numbers in friendly societies are 704,350.

An ingenious friend, who has had considerable experience amongst parish poor, and paid attention to the subject, says where parishes are small aud not very populous, it is entirely owing to bad management, if the poor are not well provided fer and the payment easy; and where they are large it would be much better for each hamlet or division to provide for their poor separately, as their wants are thus much better known: he thinks the custom of cho6sing fresh overseers every year a bad one, they being generally straugers to the business, and by the time they have acquired some little knowledge of ,it, leave it to others as as incompetent as they were themselves; and such persons, however respectable, have seldom leisure to bestow the uecessary attention to the situation and wants of the poor without neglecting their own concerns ; hence* in extensive parishes, a proper standing overseer should be appointed with a competent salary, and his accounts and reports, examined monthly, by a select committee appointed by the parishioners, who might also attend, if they thought proper.

When poor families are in distress, from sickness or misfortune, he thinks it much better to relieve them liberally on the occasion, than to commence and continue weekly pay, which growing into a habit, becomes a perma* ment expense; and much time is lost in large parishes by poor ij>eople going a great distance to obtain such pay, which is another inducement for large parishes to separate.

The wants of a farm labourer he says are trifling, compared with the poor in trade, who often contract habits of going to public houses, and spending on themselves what should be shared in their families, and thus bring a burden I urden on the public ; respecting workhouses where poor people are kept clean and orderly, it is so far good, but there is a great loss sustained where they are not properly employed; it is much better to employ them, if possible, in work they have been accustomed to, than to teach them any thing new: it is much to be lamented that in many of these, improperly termed workhouses, the inhabitants are kept in a dirty, idle and vicious state; the industrious poor are of great benefit to society, and the lazy are its greatest burthens; it is better to have no workhouses, unless they are well managed, and the strictest attention paid to the poor, respecting their cleanness, their morals, and their industry.

Respecting the poor in large towns, where numbers are (congregated together, the management of Shrewsbury House of Industry is recommended to attentio , of which a satisfactory account has been published by the late Mr. Wood, whose memory will be long respected for .his services to the town of Shrewsbury, and the public in general, and to the poor in particular.

The encouragement and extension of box clubs, or friendly societies, under proper regulations, is by many supposed to be a measure capable of removing and relieving much distress, and much benefit to society has already been derived from them; but there is still wanted a further improvement, and it would be well if there was a handsome premium offered for the best plan of the kinds, the present custom of all the members met ting periodically at a public-house, is subject to inconveniences, as tending to promote and encourage carousals, undue hours and irregularities, particularly amongst loosely inclined members. It is thought by many persons, that as every one capable of labour, may contribute a trifle weekly to a fund for supplying the wants of the poor in distress, that this, if properly assisted

assisted by those who already pay to the rated, and the uhole properly applied, a fund might be established, that should, at no very remote period, prevent the payment of any other rates whatever.

It seems now to be generally understood, that every institution of this kind must be voluntary, and not be enforced by any compulsatory law; in the latter case it becomes a tax instead of a voluntary contribution, and thus changes not only its name but its nature. In some of the friendly societies in the country, a payment of 2d. per week by each member has been known to he sufficient, not only for all claims upon the box caused by sickness or accident, but has also produced considerable accumulation; in towns and many places 3d. per week or Is. per month is more common: if some plan could be devised, by which every person paying voluntarily to the overseer of the poor 3d. per week, or Is. per month, should be entitled to receive 9s. per week in sickness, 7s. per week upon superannuation, or 3s. 6d. per week after 60 years of age, or after having contributed 20 years, after which length of time individual contributions should cease, it would do away the inconvenience attending ale-house meetings; to the above payments may be added decent funeral expenses, and a payment to widows or survivors, upon the plan of the best friendly societies, as well as the admission of females upon proportional terms, and with similar advantages.

The whole population of England and Wales is nownearly nine millions, of these one half may be under 20years of age---4,500,000Between 20 and 40 suppose---3,000,000Above 40---1,500,000

If one half only of the middle class were to come forward, voluntarily to pay 3d. per week, and the different Parishes were to meet it with an equal gum, this would amount

POPULATION.

amount annually to about two millions, of which one million would meet all the demands for payment, and one million might be annually funded; this in 32 years at compound interest would amount to 80 millions; the interest of which would be equal to the sum at present expended on the poor, and consequently the poors' rate if not increased, might then be abolished; but it is hardly to be expected that the different classes interested, should be brought cordially to unite in a measure of such magnitude, or even that compulsatory means would be successful. What then remains is to encourage by fair means and bounties, those voluntary contributions, and to divert them from ale-houses as much as possible.

In a pamphlet, by Lord Somerville, on Wool, and other important subjects, are several projects for relieving the poor by contributions, instead of the present poors' rate; but the general opinion seems to be, that such contributions must be voluntary and not forced, otherwise they partake of the nature of a tax on the lower classes to relieve themselves.

In the different reports of the society for bettering the' condition of the poor, are also many humane proposals for their relief; but these being already before the public, need not be detailed here.

SECT. XI.—POPULATION.

THE population of this county, at the conquest, i* stated in Nichols's History to have been 34/300; in 1789, it was estimated at 85,000; but this I suppose to have been an under estimate, as in 1803, under the Population Act, the

the following returns were made; total inhabitants 130,081; males 63,943; females 66/138; houses 25,992; families 27,967; employed in agriculture 23,823; in trade 42,036, and the inhabitants upon a square mile 159, the average of England and Wales being 152.

In 20 parishes of Framland hundred, the north part, containing 5731 inhabitants, upon an average of 20 years the deaths were 1 in 43 per annum.

Bottesford, I in 36 ditto..

Godeby Maureward, 1 in 76 ditto.

	Bafthtņs.	Burials.	Marrhgeu
Melton Mowbray for 20 years, from			
1547	565	338	147
Do. for 20 years ending 1789 -	803	753	262
A tradition of the plague being at M	elton in	1636, an	d 1637, <i>in</i>

1636 were 122 burials.

In 1637, 405 ditto, not more than 60 having been in any former year.

Births and Burials in Sundry Places:

		Births.	Burials	*
Burton Lazars, in 20 years from 1718	;	'100	100	
Do, last 20 years to 1794 •	-	140	80	
Frcby, from 1604 in 20 years	•	-90	50	
Do. last 20 years to 1794 -	•	50	40	
Burton Overy, for 5 years ending 1575	-	57	22	
Do. last 5 years to 1794 -		• 76	50	
The two Kibworths, Smeton and Water	·by,		1	Acres.
200 dwelling houses in the three		•		3950
In 5 years from 1575	-	125	100	
Xast 5 years to 1794 •	-,	164	103	
Joxton, 1755 acres, from 1690 in 5 year	S	39	18	
Last 5 to 1794	•	58	46	
Whetstone, 2025 acres, from 1595 in 5	years	5 <i>t</i>	40	
Last 5	-	79	3 J	
Blaby, IT50 acres, 100 houses.				

POPULATION".

			Births	. Suridl
, From 1560 in 5 years	-		- 29	12
Last 5	-	-	- 102	. 57
J£ilby, 1020 acres, a former perio	od of :	5 years	17	17
Last 5 '	-		- 40	36
Wistow, 892 acres, 5 years to 15	88	-	25	18
Last 5	-		- 41	26
Fleckney, 60 dwellings, 1300 acr	es, 5	years to)	
1586 -		-	29	27
. Last 5 ,	-	-	21	22
Ansty, 800 acres, 5 years to 1577		-	89	22
Lasts	-	-	92	68
Newton Linford, 60 houses, 5 yea	ars to	1653	45	39
Last 5	-	-	45	42
Sivithlaud, 5 years to 1676	-	-	25	15
Last 5	-	-	· 30	30
Husbands Boswortb, 150 houses, 5	5 years	s tọ 156	68 60	42
Last 5	-	•-	7i	72
Lutterworth in 1780 had 370 hour	ses, 1'	784 sou	ls.	
In 40 years there had been	-	-	1728	1745
In 5 years ending 1653	-		18*	l(.;
Last 5	-	-	206	25"')
Many -dissenters not registered—V	Wicldi	ff rec-		
tor here.				
Loughborough, 5 years ending If-			.39	1 ftf
Last 5	-	P.	701	
Market Bosworth, 150 house, 5 ye	ars er	nding		
1653 - •			(J.''»	34
Last5 '		-	94	
Harborough, 5 years ending 1584		-	73	
Lasts -	:	-	149	
General Reca	pitulo	ation.		

	Former period.			ter period
Ba	etisms.	n , ,	Π	1
-	565	338	803	753
-	184	162	206	250
•	289	181	701	468
~	65	84	91	59
				Harborough
	Ba, - - -	Former Baptisms, - 565 - 184 - 289 - 65	Former period. Baptisms, 7 7 565 338 - 184 162 - 289 181 - 65 84	Former period. Lat Baptisms, ?

PoruLATio

		Firme	r Puriod .	. Bapti	I vod. :mt. Bur.	
Harbor* <i>i</i> . In 14 country p	Do bansys ditto!	73 737	51	H9 IU1B	145	
T>educt Lutterwort	it on he of 184	1913 184	1538 \r\i	2971 205	24 \9 250	
ch-logal and fait	Remains	1799	1170	9765	41169	

ThMrViTbTOstytown clerkcuracv is not topectble many births an: omilaccount of [fie piwho kipme pri-bft but bun at the i. The length of time be-tween the two periods may be r>population in that time by the burials is increased in tbeproportion of live to nine, by the births only as Jiv

¹ lie increase of population in this county, has doubtless been owing ; ;IV to manufacturers, who, in tl.c different brandies of tnule compos, parts in eleven of ¹ts inhabitants; the retnahtipg fiuir-clevenths b'jitig cmployed in or connected with agriculture, there is reason to "chew !tural population has not increased during the last half century, a gei :iclosure has nearly taken place, and huge tracts of the ancient common fields now rich pasture land,, BO that the growth oi beans ^''d wheatj and particularly the former has much declined, ¹¹¹ favour of breeding and- fatting sheep and cattle; with >t now supply itself, yet being in ^{111(t :} f a ferl t of the kingdom, the price of ⁽¹ docs not ;vge.

pectins; cottages, the master manufacture:] s,)ur. **applied habitations to what workmi** wanted; **and** •• ^i»1• in abundance ut an average price ; the district is uell **peopled**, but **has large** quantities of animal ^'1^{;i} K.] % food

food to spare; the county is certainly healthy, as any part of the kingdom; but the greatest mortality is in towns, as the above table will show, in which the number of deaths approach the births, much nearer than in the country parishes, though Loughborough upon a gravelly, sound, dry soil, seems an exception.

The modes of living arc good, and rather inclined to luxurious. Wheaten bread, with beef, mutton, checsu and - butter pf the best, are the principal diet of all who can, raise it, as well as vegetables and beverage in perfection ; and the want of which is only known by those in poverty and distress, and whose feelings prevent their applying for relief.

CHAP. XVII.

OBSTACLES TO IMPROVKML

upvovements in this county haviou*ilh considerableidity, both in live stock andpusturti foripuwt ; this may in a. great, measure beattributed to a eofi»portion of the land IMht Xheopulent 01. or who, by llieir success inding•peculations, haveenabled,h improrcmei

That many in -its in land arc checked, jeept badr, ***tui** stifled, for want of sufficient capita 1 in cupier, cannot be doubted ; in .such case it would I if the kpUdJord or iiis agent would COM. 1 to advance 'he . sums, charging interest for the i bj lay-*ug it upon the rent, which the occupier can always altoi fo pay tor real pernmtnent improvements, **such** as draining, wiilermg, nMmarii eing, &c. and the landlord w **u***w tect security, being fret ho Id a! possessi te increased cither a .or lor sal

prices, that of ali kind of landed produce is ly high, lo vxeite every endeavour **tod**

% ¹1

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tion to increase the quantit; ; and in the present state and probability of things, there is no it i fear the want of ma ml at market, nor any dangfr of overstocking such the .only thing to fear U, that the consumers able to raise and pay for the necessary supii<! this must depend upon our commercial reruns, and maud RBd vent for our manufactures; the farming labourer must always have it in his power to **pay** for i _____, or the increase atul produce of such neces-r sarics will naturally be checked, ami would diminish of its own accord, but this cannot happen without some public unity.

es of ail improvements in agriculture, oaturajl; s pace with the price of labour, and this Jutter being fcbfc pri provisions, produced by agriculture, the Found, and real improvements imomently by expense of labour,, becan d price of produce will meet that labour, with tilt **adv.** . inpFeased quantity; increased tv pen however be ail obstacle to imprpvement upon limited capital, which should he removed as above.

and n.'.—'1 he obs;to improvementupon s.II not imoved, but by subdivisionand enclosure; tl;iot a natural disposition in societynd act together corHiaJJy for the general good ;.t onethe advantage and benefit of hij owned to himself,- or to \..a own dig-:inectioiomiuuns and waste land^mi^ht be tinproyed, by exliipoting the rub'and tlienberbage; antjcommon fit |d* by cleaner fallowing necessary draining,t;ds ami pasture iu rotation withibis, il!ce of past times forbid*

OBSTACLES TO

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antage

tls to expect, and it remains, that lor their improve: any considerable degree, they must be subdivided, *>*. app ni4 and enclos*

Tithes in kind, ?\$ an o to **improvement, i** the **cultivation** ot" land, I *".-vii* all Where nut commuted they certainly lessen the breadth of corn grown, as many occupiers **subject to** tithes, **prefer s**> **pasture, and.plough** loss on **that account**; n **s or'** tithes upon **agriculture,** and its **improvement**, ;u mly sufficient reasons why an **equivalent should** bo ihou tuted in lieu thereof.

 Poors rates.— 1 am not aware that th
 hen hi

 operate generally
 ivetnents, otherwise tli.n.

 draining \/w lami occupier ui n
 that in:
 t/iiiployed: high poors' rates implies a populous district or neighbourhood* and If peniiufucut, reiils must

 proportion lower, but every j
 1 landed j

 duce being in demand givts some additional value to the laud, and *in* so far a spur to improbeen locul iiutanci 9 of poors* rates rising
 the value of the Iniifi, but tbii is an evil that *m*

 i paint, or the country where it occur.?
 must be deserted ; po

 tes are highest ii:
 ere ihe Uind is generally of greater
 -1 will L

*Leases**—The want of I red ^a« an obstacle tu improvem t«Mit:nts will care to much expense upon uu ua

Tin forva-.{ their lai 'in that they or their fan 7 ^a? the nd-
342 OBSTACLES TO IMPROVEMENT.

vantage of it. Not so with **flic** tenant, who only is *often** to have Ins estate from year **This I look U]** a public misfortune, because* wherever this is, tl , it is impossible **Utat any** capital imprits can takn place t by the tenant). W'lmt **farm will bo** at any **U 1** trouble more than a *tn*]y necessary in **the** improvement of holds only (**ran** ? Son In made but **at** a very I **irly roaring** upon *dry*, and draining n, rt **lands. Th valuable** exertions **cannot be expected** from **tenants** at will.

number of the palamefeHy over-inn withailt-hills, and to so very grthat in mthem the nnface of one-third of the lam!vered. If you ask the fimncr the reason be tlut'S not ;them way, the constant answer h, ^{(r} We arc mto use the plough, aad we cannot remove them wirliotit arery heavy expense by any other met!answer, as I may ven• possibly ic lepaid, being <</td>tenant at will."

Some of the huids are thrown into broad ridges, :, I Ircing *wet* for want of draining, **the furroi** voiy deep, are full of rushes and **ether In** lands **were** properly (**framed** and fold flitt, the would be ?vuch increased both to landlord **andtcttunt**. enquiry, I seldom found the lands which uere occupied by **tfec** owners, overrun wilh ant-hills.

 . 1 have been told there is a set of the set o

- 1 - A - B - B

that

OUSTACt.ES TO IMP! IT*

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that farmer* should be backward in their improveinr.i Even allowing that they are satisfied with their present hindlords, siUI they arc at no certainty, fur life is very uncertain, and there is an old (and very true) saying, that new lords new laws. I am certain that, if leases were granted, the tenants in general would have no objection to an advance iu their rents; for, being at a certainty, they would cert their industry by improvftflnetrts; the advantage of which, in the coarse of years, would more limn counterbalance their additional expense

Nothing has retarded impr men and gentlemen of large form tpluyiag steward* who are ignorant of **the principles** of agriculture; they **ought always to be men** wtll versed in the science as well ns practice of agriculture. Tins is **dot** generally the L (.1 do not speak merely as to Leicesi **pirited tenant**, who **would improve** his **tasdluul'a** j*r as well as his own, is prevented from to advantage. This is a subject of thu utmost conse and cannot be too much attended to-Surely **the** bardy receiving the **Cents**, transmitting the same to thy landlord, and keeping the uccorapts; are uot all the requisites of a» nt, **where** so much is at stnk

Want of < htomiedge.—As igftorad of thu greatest a LO impnneineirt, the way to re-Hiovt* it must be the dissemination of useful kuuwledgs.

I re has no I here has had been here

The followinneral increiti-fomiutiuu has %\>me of the ;teal pa«iwledge, and uiwledge, and uiteal pa and ui•tj I ttmik it veprtby of prcdndthe consuli1 ditiWcntIrishes, villages, or communiii1

A Pla» for Village or Parish Libraries.

It is proposed to the lisb in every v in r parish, a small library, consisting chiefly *nf* books i ultun^{*}, history, modern voyages and *lmvels*_t and other subjects, of rational instruction aud general utility, Ti tnencing and maiutoining .such a library, to y a subscription of live shillings per quiu and of half a crown per quarter alter

Tlie resident clergy] dent of rile society, and :i rer to be ap an Jly from amoni: the subscriber*; the si received, ti >uuts to be kept, aud tli circulated *aud* rt J by the parish clerk, or by tut; parish sclioolmaster, who, tving ti the hooks for his own reading, is to be entitled to thf⁴ fiui

The books to be kept in li. n, or at so>ne other spnventeiit pia which slmll be ibk to the subscribers, aud attendance to be gi per statt J Uiaes an, to deliver out and rr;csive in the books.

Quarterly meetings to be held of the the place where the books are kept, when new books to be ordered, accounts state! dons fc lx>ok to be kept for reading more than a month, under the forfeiture of one penny per day afteruarris, and magazine, Teview, or pamphlet, to be kept moie than a week under a similar penalty.

The first of fucuh a society, to poitself of the Count nts, amj/; dons of I-oard Of Agriculture, of Gregory's, or some other En-.'vrrowsinifirs, « pd Maps; I)it:k^on's Agricttlture, a System of < or's LiuivtrsaJ ili-story-; Johnson's Dictkmaiy, HHIIU

OBSTACLES TO IMPROVE ...

ham's (last revised edition) History of England; it should also begin to take in for periodical circulation; the AnrtaU of Agriculture; Bath Reports; Monthly Magazine, an impartial Review not addicted lo any particular west or party; and the Journal of Motion Voyages and Travels; to these I shall add the Flora Rtwtka, Curti Botanical Magazine, yud Flora LondineustS; and for the use of tho>c who wotrld make any proficiency, Withering's Botany, and BerfcenhouVa Synopsis of Natural Histury, as well as any other similar publications, I lie exf uliiclt IIKIV come within the Ed of the So**country**; nothing can be **Oore**; ui; ipted to a **country** residence than ihe stttdy of Botany nml Natural 1 and it is astoing to consider the ignorance of mankind *m* objects that m lined lately siurouod *ih*> arc icqaaioted even by name, with plants Uie most ;ou, **pt those they** cull stress of ihid injurious; yetaotli cau be more obvious, tlwn tlie huprovement 'by cultivating a new aud useful plant, tin, useful t of which m owing to ignoruttet: -ii its quah and the difficulty i int'orniatiou ; the study of NaUl] uud adapu i to eiller sex i)iid a nore general to see dge ot it could scarcely happen, without being fullu, consideraijle iiopruvemeatt.

'1 !io libra\$3 M the jf of the stdb-scri.",f their roideirt 1so longhey •shall continue lo p>ns,within |after they be, but ..lime, bv at libcriof the libi;

To fair copy of this plan shoitKi that th< ot iht eh-

OBSTACLES TO I3J-PUGVEMENT.

have paid their first subscription, the HQC;
considered formed* Should nny nobleman or gentleman
• I his countenance to such plan, and contribute a dm
i of ten vi i
5, the establishment couM
iil to be permanent.

1 know that IIHIIIY person* nave set tlu-ir faces against too great d Iniowimouggt the mass of n;?mk: ha? a tendency to n .viality and ice, and to art ooeoi • ; but I caynot doubt that the better annuity the more inclined they will he ir duty in , and the more capable or ; oral, or /; piin£ the improvement of oth<</pre>

rth savi^judice is the great obstai
and when the nation encoi'HIT'\:u\. theo willruveineiit.is not sited.'Tlie beau nu
upon theIry as iand theIry as iand ihe li!.it is to th- ri?e or f;dl of it thTvell or HI beiuy dependChimisings bandhis mandarins hold the plor.gh one daj

teulture as Int lion d ogrieni P all occupations, and enco ut of all ' till tl IMH! ,b€cau tmd -s miicli I

OBSTACLES TO IMPROVEMENT.

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bours in their larger di s, and was held in gn honour \ them. To follow suite examples, by reuog all ptrso; the second seco theory orpraction of will beneficial effects. ^rl'• p to vibrate the auti BT, the honourable employn: 1 the absolute necessity of a riculture above all oti er employments a hut, above ail, schools of agricnkw mental fart should be established in every county. This deficient y v complained of by Columella, who wrote 1500 years ago. the k uo w 1 edge of h i' id r u nil affa i rs, w hich dom itself, wariKil, as well as those wind ters to teach it. Even now, it is the state and schools for !ie-any teacher of agriculture, by which ibi mies, antl school; fuing, would do well to :iler, in the directions tin. • paiua I ^or ought to he :tt, iti the education of young wo!- indgentlenien, whetljer, ! of the study of these volumes of logky ftliics, mtUipIt ;nd a good deal more of t!. aed ber, which which puzzled u, have hit r time in, to litile ur no purpose, whetto de -ulii not substitute lessons in agriculture, which migh I prove more beneficial to themselves, and more useful to the community: (>f such im{ or tange was this held in Secthand, that in the vt-aY 1 to the matter a professor hip in one of the universities for the study of agriculture; asd it is much to be immented that a similar institution has not taken place in the inv.versities of Galord and Cambridge, as at would essentially tend to the proposition of the inspectant bra sh of knowledge, so highly necessary to mankind. Lord Molesworth says, as to agriculture, I would humbly propose

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propose that a school for husbandry was establishei every county, where an expert mailer in the practice of riculture, should teach at a fixed salary. Cowley wished to see a college (bended in each of the university promoting tit^{*1} knowledge of agriculture; and the mg Mr. Harte proposed to-open an academy for lea culture, to which 1 would ;idd bo for, according to experience and obscrvatioti, the propei rune to infuse die knowledge of natural phil -, is in ike earlier stage of life, when there is a curiosity and impathere there knowledge; and if practice could be joined to theory., by nteans of experimental faring amusements in the fit Id, enjoying the open air. Exercise arid activity agrees weil with the turn and cast of young people, anri a **petud** variety, which is very **engaging** at their trine of life, would attend such pursuits. It is a point gained mtfa* cut doubt, to read the husbandry works of Cato, Varro, Virgil, ColumeJia^AHtJsiod and Xeuophoa, with taste a mo- it may open a on classical grou: and in ull probabilit) it is a second s in favour of agriculture ; and it is liurdiy possible but that a gentleman must lose by husbandly utiloss he o it."—A'mswarth.

Depredations of Vermin[^]—The common red, or earth worm, is injurious to pastures, by i'oufing them wilt castings; but I believe it to be less common in JLeicc pbire than in some other counties, on account of the loamy ure of ks soil, through which this worm cannot b with the same facility as in lighter soils : the mole « well known to be an enemy to this worm, by devouring great nun but being injurious itself, cannot be tru that is arable 1 r ploughing by ttv o(of destroying th'ese and other injurious baecttj why I shel'.fr

OBSTACLES TO IHI-UOTEJIENT.

lelter in the earth ; and that a good dressing of lime irom its acrid **quality**, is a moons of incommoding them, «nd **pitmen** u;ir increase; but in land **where paring** and burning can be properly introduced, they **are most** factually extirpated by that process, followed by im: **M£** in tho hot :•«!.•

Of *the slug* 1 know tit "times injures tur »tx ptai tion **mitted in the highi** Mr. Vagg's proposals for destn hum by night rolling are **!1 kumvii.**

3- Hats ami mice.—The mischief done by theft cious anlrn; well known; ro prerfent it in wheat* the fitack should ahrflyj 1 n a proper stadriks \sJiich is onstrui > preivnt their entrance. \ tlifir natural enemy, ;md CUM my of should >I that account; but they are so very <i ;ve to and b. and 911 that account, t, I suppose, red. •i a good vermin d well i. inn ctual mtUiod I ud of 1 by often hunting ;\uci han ; rcte, which will thtjt^ from any prc: strn 1; btit dm should be done With pr. cautiou, to prevent gerioits 'd many kiu>'. tiaps B in their ifertruction.

 M(Acs should n*>t be suffered to bccoir

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 but bebt in the month of Myrch,

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The the more active and in motion that *t am office the C of ihc year.

-Sorru r opinion that ird* itre of service in destroy ; however that ipaj bt^j, they are so immn?rr prolific nature, and withal so voracious, as to do %*iea*\. m: tally between its blossoming and ripening, which is the blossoming and ripening, which is the blossoming and ripening which is t hedge is si I oitnest destroy a yvh≤ crop: to ; ravages, hedges sliould- be UIM I-and trimmed again and a tender kept, with clappers or a gtin. They harbour in, and du gre-fit mischief to thatched buildings to lessen their nambers, nad. prevent their in hould I ! in wit»ter, apd attention J be pnid to tbinring diem in breeding Uow, by taking their young; in many provide the second s Lountii *rery* properly paid by **the** church-Witrdiia, »o mutli per dozen upon their **ind** *n* **bigber b6ui** of: sufliciently attended lo.

Wit eJ to rooks, they are generally supposed to the jnore good **than barn**; ttky ;tre certainly **serviceable** in /ring the ground of various kinds of worms and **cater*** pjilars; which arc **prejudicial** to grain, ;, graces, and other plants; and will often **attend** a fiYld pk in great numi d in the fresh furrows; bu^f when such food foils, they will devour **grain** the eed or the crop.

Pigeons hiare of service in pidivers injurious weeds,, but are very apt to make free in apea fitilJ, both after v>uiiI before harvesting thecrop, where they will som. da*if not kept off by a tender.These birdweVas rooks, arc soii•by

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by a rattli by iliu wind, aud sometimes by hanging up some of their own ; effigy.

The destruction of grain, after it is so¹ field nain t'ouie to be considerable; the tussocks of will a to arise in many fields, are general!) to the n#iicR ef these si found u> coul near a hat-fyll of corn, ich grow* into a tuft if tha owner be accidentally d '1.

li j asserted, that i' etj imi plants, as tliuy arise from the seed, and multiply at that time very fast; their habitations are detected by su inoumi rth being ilirown or near the a; of their d by attending tp which tl be destroyed.

Garden beans, pease, &c. are often dug up or oracious little ai)imu!?i, *wh'icli* may be destn krapc baited with cheese; or best of all, by ihc IBSCOUS *"agement of the breed of owls,, ao activ pursuit of nocturnal vermin, aud thence *no* useful to the -farmer aud servants aud -children destroy both their c v young.

Water rats do great injury to vegetation, by innum< ith the soil, anil . >• the of a great vai bits; they will J du. ubbitSj and chick and devour willi y, everv kind of food with which poultry are usually fcd^ and ru

he following win, me from tiu (lir i i|itavt of oatmeal add si) musk, aud p^*

YORICH,

OBSTACLES TO IMPROVEMENT.

lrorn the ground in spring, in innumerable multitudes; to prevent the evil, he advises to roll the ground early iu the morning and late in the evening, to squeeze the depredators, and consolidate the ground; top dress with slacked quick lime, or salt, or tar water, or soot; and it is very probable, that if the land be limed previous to sowing the at, it will less encourage these insects.

With respect to clover, laying down the land id good heart, and well liming with or for the last crop of grain, seems dm best preventative. When the clover plant is of vigorous growth in the spring, it is less liable to be checked by insects; and I believe lime renders the soil less palatable to them, and tends to prevent their increase.

A small winged insect, the limps physapus of Linnaeus, is also said to attack the late flowering stems of wheat; to prevent this evil early sowing is recommended.

For some account of the turnip fly, and other insects jurious to that plant.—SEE TITRNIP CULTIVATION* VP. VII.

La casts ...]

CHAP.

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vnmica, finely powdered; make it into pellets, and put them into the tat holes : this was at first greedily eaten, and did great execution j but the wise animals, after a tiiii ted to cut it. &. Three parts of oatmeal, and one of staptiisagria, (staves acre) mil manual a paste with notify; pieces of this paste were laid in their holes, and griin did great execution. 3. A large boa waa laid down on its front side, with the lid supported opun by a string 'ivtT a pulley; and by trailing toasted cheese and a fed herring, from their holes to this box, and placing oatrncal an; 1 other food in this box, which they air, for a few nights, permitted to eat urith I; and finally, to watch them by moonlight, th« n»ide of the ing nnted white, and when many ot them are seen, to imvn the lid, by which contrivantaken nt 01

Dr. Darwin states, tb^t the rats of America me vfieeted witii the tape worm, a .ied mucb to dinit their numbers; and adds, could not some of these diseased rats be imported, to propagate tbeir malady.

Insects,—Wheat is sometim it quart: tities by a grub, or worm, biting it off beneath ih« syrf; in the springs at the joint, which c< a saccharine juice, of which insects are very fond; young clover is aUo pqoitHy injured from the **same** ov a similar | the greater nf the crop in a whole field will sometimes disappear in the spring, although it had been thick enough ound in uuUinm; this is by sonic ttrib it ted to the grub, by others, to the ground beiag tin d of rer. Wheat thxn prejed upon, falls down and with liith sonny crops are **destroyed** in some seasons.

This depredation Dr. Datwid supposes to be coinmitted by the worm or caterpillar of the fern chaffer, (.scarab solstitial be baa sooaetinjies observ/d to i

fro

356 ARTICLES.

For a y the same number of ewes that shall have in kept on natural gra

I'm- the best conducted expit for ascertaining theivoprofit of di?.iit wool andotrcass, strict attentionbiaid to the quantity of foodeacLbreed has consumed ;the weight and value when putup to feed, and when taken off, being specified, and tohave hI with artificial food, will:ptlon ofcoin and oil cake—iO guii*

For tl; $-.\lambda$ best **experiment**—,5 guineas.

For thu beat conducted rtaining tinrelative profit of di; ids of >1 and carcass, the same attention being used in I in the last class, to ascertain the quantity of food consumed, the weight and value of the animals, when put to feed and taken off, to have been bred and kept on natural g; alone—10 guineas.

For the second best **experiment** of the ^;mit—5 guineas.

••:•.—These premiums will not be allowed, unless the experiment in every case has extended to at *h* beep or some distinct breed,

for the host ox under three years old, the time when cd being ascertained as nearly us may be—0 guineas.

For the second best ditto—4 gum-

For the best ox under 4 years old—5 guineas.

For the second best ditto—.1 guineas.

[To have been fed with tind vejj 9-]

tlie best ox that shall **have** been-worked from ;i is old off, to (*i* years old off, or **longer**, tiic age being specified—8 guineas.

For the second best ditto—4 ftiin<

e beon fed with give ubles or oil cake,

but

horses and oxen in husbandry work, on which a premium shall be awarded—g guineas.

To the man who shall cut, lay, or plash an hedge, in the best and most effectual manner as to the preservation of the quick, and for making it a fence, the same to be ascertained by the owner and two of the committee, a premium of—3 guineas.

To the person who shall, at the annual meeting for 1808, report the most satisfactory information, as deduced front actual experiments, of the soils qnd situations best adapted for orchards, and of the means used in (heir plantation and subsequent management—10 guineas.

For the best cow that shall have produced not less thai) 3 calves, and shall be in milk at the time of shewing, the time of her last calving being ascertained by the owner— 6 guineas.

For the second best ditto—4 guineas.

These premiums not to be given for any animals of mixed breeds, nor unless the particular breed is ascertained to the satisfaction of the judges.

The following conditions are to be complied with by all candidates for premiums.

Every candidate, or person appearing on his behalf, is to enter his stock or claim to a premium with the secretary, on or before the 1st day of September next, the stock to be exhibited at a time and place to be appointed by the committee. A certificate, in the following form, is to be delivered to the secretary at the time of entry:

1, A. B. do certify, that theintendedto be produced for the premium offered by the Leicester*shire and Rutlandshire Agricultural Society in classis the property of

[Here shall follow a statement of such other particulars as

MISCELLANEOUS ARTICLES.

but in case tut- latter has been used, an account of the quantity consumed to be produced].

To the person who shall make th> xperinient ant shortest report on the practical effects of lime upon tile various sorts of land—20 guiw

To the person wiio shall state the **best** manner of forming compost dunghills, mentioning their materials, **quant** and place— r_j guineas.

For tlit; best conducted experiment, ig the relative advantages to be **derived** from soiling or grazing cattle in the usual way—10 guine;:

The same experiment for sheep—10 guineas.

To the person who shall have cleared not less than acres of land from **ant hills-, within** one year, **in the** lest and most effectual manner, the **expense** being stated to ti.e committee, and it being **understood that no** premium **will** be allowed **without** proof of the **effi** measure **i** years—20 guineas.

The following premiums are offered for servants.

To the **person** fa had the care of sheep, to be ibited for the premiums, that shall appear to have rendered ihe most effectual service to his master, in the capacity of a shepherd—3 guineas.

The claim for this premium to be accompanied by a t< timormd from the master, as-io the good conduct of the **man;** which testimonial is to state the number of the sheep under such **serva** are, **the** number of Iambs d, and Otl icmnstancvs connected with such servant's duty, so ;i- **able** the committee to form a correct judgment of lit.

To ihu man **who** Uiall make the experiment as to dung, for which a premium shall b> -Stained—1 guin.

A a 3 horses

• way be required by the terms of the premium, and for ascertaining the claim of the candidate.]

(Signed)

The secretary is requested not to disclose the cutries of daims for premiums until after the 1st day of September, J8O8.

All cattle shewn must be previously rendered tractable, in order to prevent accidents.

No candidate to enter more than one lot in the same class.

la every claw where doubt shall arise, the committee is to decide.

There shall not be more than three judges for eacii description of animal, and no-person is to act in that capacity in any case in which he may be interested.

Instructions to the judges.—You shall decide which is the best animal, or lot of animals, in the several classes, having a regard, in forming your judgment, to excellence and utility of form, quality of flesh, lightness of offal, propensity to fatteu, and early maturity, as far as may be consistent with the special terms of the premium. Also in sheep, to quantity and quality of wool. Having signed your adjudication, you are not afterwards to propose any change, nor to mention your decision till announced by the You are not to disclose the opinion of each committee. other; and the decision of the majority is to be conclusive; and you shall number the lots in each class in the order of their merit.

G. N. NOEL, Chairman.

Mr. Samuel Stone produced a heifer only 2 years and 10 nionths old, which had reared a calf in 1806, and was sufficiently fat to be worth the best market price of the day. Also, another heifer, 4 years and a half old^ which had had four calves.

Mr. Stone proposed to the committee to go on with experiments respecting these animals, and promised to communicate the result, at a future time, to the Agricultural Society.

Mr. Watkinaon produced a cow of 8 years old which had reared 6 calves.

The above named animals had very considerable merit in the opinion of the meeting, but, on account of informality in the notices of intention to shew them, could not be entitled to the premiums of the Society.

Clement Winstanley, Esq. V. P. exhibited a handsome cow, but which was not offered for any premium.

Several pens of sheep were also produced, but on account of irregularity, no premiums were adjudged.

A claim from Colonel Crump was received for the premium offered for clearing land from ant-hills.

[']Edwyn Burnsby, Esq. produced a drill maćhine, made by Mr. Hicks, of Leicester.

By order,

R. COOKE, Sec.

GLOSSARY

0.

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IGRWULTUUAL PROFINCULISMS.

AS an occasional visitor has little opportunity of picking up these, not having sufficient colloquial intercourse with lower elates, by whom the sed, 1 have collected the most remarkable of those noticed by Mr. Marshall, who resided in this neighbourhood two years, but have aired some of the definitions:—

Acre, a long measure of 4 roods or 32 yards. Aigles, icicK

atch, the enrn sent to a mill for family ii
Batch bag, the bag containing it.
Batten or bolting, a truss of stnt
beggars needle, a weed, shepherds need!
To belt or burl, to *hUvav* the buttocks of sheep.
Beltings or burliugs, wool so shoin.
-"par thistle, spear thistle, carduua lanceolattis,
Brush crop, crop sown on a stubble.
*>«tty, partner in a small concern.

»ugs or beastings, a cows first milk afu ;*£.

Chadlock or kedlock; wild i, Jish ornipe.

A.

В.

C.

362 AGRICULTURAL PROVINCIALISMS.

Caps or hackler's, hood sheaves of corn shocks.

Cbapmanry, a small return on receiving money for beasts or corn.

Clam or clammed, starved by hunger.

Cleries, draft iron of a plough.

Cockheads, a weed, knapweed, also plaintain heads.

Crow-flower, crow-foot, ranunculus.

Corned, fed with grain.

Cullings, refuse, out-casts of a flock.

D.

Daglocks, beltings or burlings of wool. Dee hettle, a weed, nettle hemp, or lamicoms. Dog fennel, a weed, corn, camomile. Donk, damp.

Ε.

Eavins, eaves of thatched buildings* Elder, the udder of a cow.

F.

Feeders, fatting cattle. Fegg, rough dead grass. To fettle, to adjust, or put in order. Fin, a plant, ononis, rest harrow. Finch backed, white backed, or streaked cattle. Fitchet, a pole cat.

G.

Galls, moist springy places on land.
Garner, a bin in a granary, or mill.
Gaun, a gallon measure, also a small pail or tub.
Gearing, the harness of a horse, or ladder, and side rails of a carriage in harvest.
Gorse, furze or whin, ulex Europoeus.
Gurgeons, pollard, or a sort of bran.
Gutter, a small ditch or drain.

H.

Heart spurn, tap root.

Hengerse, ononis spinosa, thorny rest barrow, to hike, is strike, or gore with the horn.

HiHocjfSi mole-hills, or ant-jhills;

Hooders, covering sheaves, of wheat shocks.

Hubbs, naves or stocks of wheels.

Κ.

To kibble, to grind corn perfectly. Kids, faggots.

L.

Lag, a shake in timber.

Lamb hogs, yearling sheep, before shearing. Lap love, corn bind weed, convolvulus.

Lay for cattle, hired pasture.

Lays, grass or pasture land.

Μ,

Muck, compost of dung and straw,

N.

Nag, a saddle horse.

Ρ.

Pad, a traced path.
Passer, a nail passer, a gimblet.
Pin fallow, winter fallow.
Pingle, à small croft.
Piles, awns of barley.
Poothery, close, cloudy, sultry weather.

Q.

Queest, the wood pigeon. Quart of butter, three pounds.

R.

Raun-piked, dead-branched tree, stag-headed. Raw weather, wet and cold weather. Roarer, a restless cow, also a rupture-winded horse.

Rood*

364 AGRICULTURAL PROVINCIALISMS.

Rood, a customary me sure of & yards. Ruck, a heap.

S. Sarver, a corn scuttle. Score, twenty in number* Scedness, seed time. Shear hog, a wether or ram, yearling sheep after shearing. Sludge, mire. Sough, or stiff, a covered drain. Spinney, a clump, or small coppice. Stail, handle, as fork stail, mop staiL Stalled, a carriage set fast in a slough. To stock up, to grub up. Stodged, filled to the stretch. Strike, a measure once stricken originally. Stump, a post.

T.

Tankard turnip, the long-rooted turnip. Tothack, to thatch.

Theave, a yearling ewe after shearing,

Thoan, damp, not thoroughly dry.

Thrave, 24 sheaves or boltings.

Twitch, or squitch, coach grass.

W.

Wall spring,[%] a spring breaking through the surface., Wastrel), outcast. Willow weed, | o^/gonum peisicaria.

Welly, almost.

CONCLUSION.

CONCLUSION.

MEANS OF IMPROVEMENT, AND THE MEASURES CALCULATED FOR THAT PURPOSE.

T H E improvement of every species of live stock has been already attended to in this county, with a success which proves they have acted upon true principles, and a continuance of which will extend and increase such improvement. If any thing be wanting to make it more general and extensive, it may be the assistance of the landlord or his agent in procuring improved male animals, for the use of the smaller tenantry, charging them interest for the expense of such accommodation.

The improvement and increase of the means and resources for supporting capital live stock has also, in some measure, kept pace with the improvement of such stock. •Much has been done in draining and irrigation, and thus innproving and increasing the produce of grass land, as well as in the cultivation of green crops, and the introduction of new species or varieties of the best kinds: it regains therefore to extend drainage and watering to all land capable of those improvements, and much remains still $t < \$

rendered unsightly by ant-hills; these should be removed, as well as bushes, and other rubbish. The inferior pastures should be permitted to be ploughed up, in order to improve them, and lay them down better.. Their improvement would be effected on strong land, thus: I. Drain where necessary, and plough up for oats; and, in Case of tough hassocky turf, pare and burn before ploughing, so far as that extends : 2. After the oats, plough in autumn, and give a complete winter and summer fallow for wheat or barley, with from five to six tons of lime per acre, and plenty of the best seeds sown with the barley, or if wheat amongst the crop in the spring; for lighter lands, after the oats, fallow for a green crop, and lime as before ; and, if the ground be not well cleaned and pulverised, repeat a second green crop, and lay down in spring with barley, or spring wheat, with plenty of the best and cleanest seeds. It is necessary to the complete success of the seeds, that the green crops preceding them should be eaten off in time, do as to admit of the land being well pulverised by two ploughing.?, for grass seeds sown amongst clods will not succeed so as to form the best pasture. Plenty of white clover should be sown, eight or ten pounds of the seed per acre, if pcrinament pasture is intended, and on the proper soil a peck or more of burnet should be added. This plant is adapted only to dry calcareous soils, where it will be perennial and productive: on moist or strong loams it is improper, and the best natural grasses are to be preferred : and her* I cannot but express a wish, that the respectable Agricultural Society already formed, would encourage the growth of the best native and perennial grasses, and other plants, by offering and continuing a premium for the best cultivated herbage for mowing, of the first year, 50wn with barley, or in some other prop of grain; and the '

principal

principal staple of which shall not be red clover and ray grass, but some other perennial herbage fit for pasture/ or mowing annually, and not being less than five acres, suppose ten guineas; and for the second best, and not being less than three acres, suppose five guineas. By an encouragement of this nature, perhaps something may be brought forward to improve the grass land, even of the county of Leicester: the crops *to* be viewed at Midsummer by proper Judges appointed by the Society.

If any fault is to be found with the general system of Leicestershire agriculture, it is with the scanty breadth of land sown with wlieat; but this cannot well be increased from the other cultivated lands, without lessening the quantity of live stock. The oats, beans, and vetches growu are all consumed by the horses, necessary to keep up a breeding stock, and do the agricultural and other business. Fallows are as nearly abolished as they can be expected to be, and the number of sheep and cattle kept cannot be lessened, without the ill effect of such a measure being severely felt, in the populous neighbourhood and in the metropolis. The cultivation of Charnwood would probably for many years, add 1000 acres per annum, to the breadth of wheat grown in the county.

• And here I cannot but again repeat, that the destruc-*!on of weeds with flying seeds-, growing in hedges, highways, and on heaps of compost, as well as in cultivated land, would be a means of general improvement, and that the foulness of the beans* and other crops, is in some measure owing to this neglect; and that if this object be neglected by die occupier,"it is worthy the interference of the landlord or his agent, if not of the police, as a means to improve the country.

As an abstract of the whole, and to delineate the idea I have

368 MEANS.OF IMPROVEMENT, &C.

I have formed of Leicestershire agriculture, cultivation, and stock kept, 1 will suppose art ideal farm, containing a two-thousandth part of the extent of the county, stocked and conducted upon the general average system of. Leicestershire management, as now in practice in the county. Such a farm would Contain, within fractions, nearly as follows:—

			Acres.
Acres in the gross	-	-	201
Waste land and woodland	•	-	21
Cultivated land	-	-	240
Strong clay loam at grass	-	-	40
Milder loam, permament p	asture and	d meadow	7 60
Clover, or temporary pastur	re	-	40
Total grass land Tillage, Wheat 12, barley 2 Beans 6, pease and Green crops, inclue Fallows for wheat a	- 0, oats U vetches ding pota and barley	- 4 - atoes y -	$ \begin{array}{c c} 1 & \text{GO} \\ 47 \\ 10 \\ \circ_n \\ 80 \end{array} $
Total as before	-	-	240
<i>Lite Stock.—</i> Dairy Cows Fat cattle annu	- ally bred	on the	dttlp. 8
Rought in and f	atted ann	- nallv	4 12
Occupying, young stock include	ed, grass trreen	land - crops	Acre* 65.) 10) 75 Sheep

OF I3iPiiOVEMEN"T, .

S	Sheep, No.
Sheep.—Breeding ewe.s	100
Lumbs 120, shear-hogs, rama and	
theaves 120	240
the second s	Actua
Of these shorn 220, lambs not	
shorn 120	340
and the second sec	-
Occupying grant land 65, green crops 10	7 a
Hones.—B working horses and raares,2 yearling	
colts, 2 do. two-year old, 1 hackney, 1 mis-	Acres.
cellaueous, in all*14, occupying grass land -	SO ^
Oats [5, beans 6, second s2	£3) ⁵⁵
Kemains for mankind and other uses, for hogs,	
c. Wheat and barley 39, pease 2, fallow 3	37

Total - 240

a cultivation of this farm would require 12 perso their families might consist of)2 more, in all £4 } ⁵ons, employed, or maintained, and supported by employment, on 240 acrea of cultivated land, which is one person to every ten acres. This is the proportion returned from Leicestershire, under the Population Act, nearly.

These 24 persons might consist of the master, mistand two children, three men and 3 maid servants, four bourers, or agricultural mechanics, v. ir wives,, and *^{iJE} children, or the number made up by different variations.

The annual marketable produce from sue! n, after families employed upoo it are provided for, may be

LEICHSTER.

Producc

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Produce of 5 acres of wheat,	125			L. '	s.	≫.
bushels, at 9s. 3d* per bushe	1			57	16	S
Do. of La ley, after providing	for					
seed, malt, and hogs, 50 qua	rter					
at 21 •	-			100	0	9'
All other crops consumed on	the					
premișes.						
Cattle,—Produce of 8 dairy co	OWS					
at 141.10s	116	0	0			
Do. of 4 Lred and fatted on the p	pre-					
mises, at 211 f/ .	84	0	0			
Frofit of 12 bought in and fat	ted,					
81. each	96	0	0			
•	20					
·	-			296	0	0
Sheep60 Sheer hogs, annu	- <u> </u>			-296	0	0
Sheep60 Sheer hogs, annu sold at 31.	 ally £ 180	0	0	-296	0	0
Sheep60 Sheer hogs, annu sold at 31 60 Ewes and theaves	 ally £ 180 at	0	0	-296	0	0
Sheep60 Sheer hogs, annu sold at 31 60 Ewes and theaves 21.5s		0	0 0	-296	0	0
Sheep60 Sheer hogs, annu sold at 31. 60 Ewes and theaves 21.5s. £20 Fleeces, 55 tod,	ally £ 180 at <i>135</i> at	0 0	0 0	-296	0	0
Sheep60 Sheer hogs, annu sold at 31 60 Ewes and theaves 21.5s £20 Fleeces, 55 tod, Is. 8d	ally £ 180 at <i>135</i> at 77	0 0 0	0 0 0	-296	0	0
Sheep60Sheer hogs, annu sold at 31.60Ewes and theaves 21.5s.£20Fleeces, 55£20Fleeces, 55Is. 8d	ally £ 180 at 135 at 77	0 0 0	0 0 0	-296	0	0
Sheep60 Sheer hogs, annu sold at 31. 60 Ewes and theaves 21.5s. £20 Fleeces, 55 tod, Is. 8d. Horses, 14 kept in all, 2 annu	ally £ 180 at <i>135</i> at 77 ally	0 0 0	0 0 0	-392	0	0
 Sheep60 Sheer hogs, annusold at 31. 60 Ewes and theaves 21.5s. £20 Fleeces, 55 tod, Is. 8d. Horses, 14 kept in all, 2 annusold. barring accidents. at 	ally \pounds 180 at 135 at 77 ally 25	0 0 0	0 0 0	-296 -392	0	0
 Sheep60 Sheer hogs, annusold at 31. 60 Ewes and theaves 21.5s. £20 Fleeces, 55 tod, Is. 8d. Horses, 14 kept in all, 2 annusold, barring accidents, at guineas each 	ally \pounds 180 at 135 at 77 ally 25	0 0 0	0 0 0	-296 -392 52	0 0 10	0 0 0
Sheep60Sheer hogs, annu sold at 31.60Ewes and theaves 21.5s.21.5s£20Fleeces, 55 tod, Is. 8d.Horses, 14kept in all, 2 annu sold, barring accidents, at guineas each	ally \pounds 180 at 135 at 77 ally 25	0 0 0	0 0	-296 -392 _52	0 0 <u>10</u>	0

As part of the produce of hogs was reckoned in the dairy, the rest must be allowed to fill up deficiences, and the articles of sale from this farm may be put annually at 9001. after supplying bread and beer for those employed and their families.

Butcher's meat for 24 persons, at half-a-pound

each per day, 6d. per pound, for one year, L. S. D. amounts to 109 10 O

371 XS OF IMPROVEMENT, Wages for one year to servants and workmen, *). L. s. 100 0,0 besides board, &c. •rocery ami clothing for the family, aud tra-*00 velling exp 0 Q W state Mater ssessed, and, all other 100 0 tax 0 Interest of 2,0001. capital to stock such a farm 100 0 0

Outgo i:

509 10 0

rge

temaius for rent, tithes, extra expenses, loss* and profit per ami - • 0 0 0

As many tin: pectiag the general features, or particular practices of a country may occur, which are not reducible to any general or particular bead, in a systematic plan, I shall sketch out a short itinerary, composed of **minutes** made upon various excu, Afferent parts of the county.

August £j. Enter Leicestershire from Tarn worth and Polesv. i, bailey carrying, the chadlock amongst turnips here, not wild mustard, but rape or radish : pass Warton, soil stronger, barley growing but ripe, field *b*turning colour; a stone quarry at work ; wild teasel and elec le in hedges; also in ditto and road sides go ^ttnsy, ragwort, ononis apinosa, woudy night shade, this with the js jig; lime mixed in compost, bailey mow-Wg, pats curried, some turnips, and some wheat fallow; *ⁿ< at part carried, a brick kiln : pass Orion on the 1 ill, ha'% and wheat harvesting, some wheat fallows and lime ; -stubbles ploughing, beans short (and-foul with °ni camomile), and nearly ripe, road-siie plants, daw a; cross a rivulet, soil clay loam, jubliy,

\$7\$ MEANS OF IMPROVEMENT, &C.

large proportion pasture; wheat crop bar?, eight or ten bushel per acre ; soil thin, poor, harsh, moist, thistly, and badly managed, wheat fallow ami lime, two-furrow ploughs drawn by five and six horses: oat stubble ploughing, tiax in small plots, pastures foul with docks autJ thistles uncut; thistle and sow-thistle seeds flying; agrimony, St. John's wort, wood betony and teasel, growing on road sides. Iu tills cou country is a good deal of poor, cold, thin, harsh clay loam. The county has scarcely a worse district. Turnips indifferent, potatoes good, pea crop poor and foul, beans and peas intermixed* dairy cows long horn ; pass a modern enclosure, with two rows of double post and rail, and the quicksets between; soil harsh ci an, most thrown to pasture, but some fallows and wheat; reapers at work.

Pass Welsborough j high sound laud most at grass, but !y beans; barley better, but not nat cut* crops foul, thistles and sow thistles with the seed flyin re fallow, heaps of dung and compost ucglectetj; grown full of thistles, lake weed, and goose foot, **hich** are fast ripening their seeds; pass the Ashby **canal**, coal wharf, toBosworth.

Bostcortk to Jlhickley.—-Across Sir Wolstaji Dixie':¹, park, well stocked with deer, sheep, cattle and horsey; Is Hinckley, turnips late sown ; potatoes and wlreat good crops; wheat i , oats carrying, turnips growo, but a large proportion of the land at grass: pass Cudeby, some fruit orchards, oats harvesting loose, crop good., more turnips clean hoed and promising ; soil souad and barley growing and good, some cut uiui carrying, but* cool spots will grow a week, or a fortnight longer,- turni potatoes, and a promising ; early slubble ploughing, for turnips, coleseed and rye, with a twePfurrow plo d five h

Plots

OF 1MPR0VE3ILNT,

Plots of cabbages common in turnip fields, both sixinch and narrow-wheel waggons, fitted up with liar gearing, n-tiiird four-wheeled tic huffier, in ploughed field, near Hinckl

General remark -- From Does or h to Hi nek ley I passed several sets of dairy composition and the several sets of dairy composition and the soil generally a good sound loam, in good < a large proportion ai grass ; but on road sides, in this days tour, i worth, the thistles an uftfttlly neglected; the ditc ueatit for manure, often left to I luxuriant crop, of both the common n IT thistle ; and, what is* worse, these are suffered to seed, and It: urn try, and that oik-n times again 1. DunghiJis (i. c.) heaps of muck :UK! compost hit! down on road sid^s, are often equally neglected, and suffes of the produce goosefoot, lake weed, and thistles in perfection J then seed J by thousands, and mixing with the manure, to rob the land, as fast manure can fertilize it; if this manure was ti: the weeds were in blossom, it would enrich the compost; but there can scarcely be a. greater neglect than suffering them to i teir section

this J must add the foul state of m.wy [45] Had nitich more excellent pasture land, where the dock and the lie is suffered to triumph over every pasture plant wilhou,t bmderance or molestation; th< sufference of the sufference of ripei: and shed hem on the bnd, Nourish.and ^{Or} to be dispted on the country merery direction by tilt wind.

tk. Hinckley to / vorih, -- K\ die guiden d a cherry orchard near llmckley; thistles and docke will not seeda at intervals, but not so comt; on as -)esterday :

B b 3

J74 MEANS OF IMPROVEMENT, &C.

yesterday; some small closes of cabbages, and plots of the same in turnip **below**. plough-lined.

To Harborough little v.i, from before, but oats the principal, and rather the favourite crop; henbanes wort; road sides some . lantations, thisll ragwort growing : pass VValihoi pe, a thatched \ mud walls; stubbles aown for ley, oats, beans, turnips, and Swedes grown ; two or of these often- in the same field ; beans », foul, with sow thistles, both white How blcws with the *needs* flying.

Beans continue short and poor ! with thistles, and corn camomile aide \\ spinosa, yarrow, rt, and eentaui beans again in the same field; pastures I been mown, some with ant- ore ft< but often rushy gnd uosighti id pasture clsaner k-

MEANS OF IMPROVEMENT,

cattle ; pass North Kib worth; hedges here plashed at full -tilth, eight or nine feet long, as fence against the feeding bullocks, and other cattle; mud walls and thatch in village ; nettles, docks, and other weeds, on heaps of compost : pass Husband's Bosworth ; stone crop on thatch, and English mercury on road sides.

A field of good beans broad cast, another *of* wheat, and •* third of turnips; but little tillage in sight: pass Thedingworth; mud walls, thatch and stone crop, but some houses of better materials; a large graz'ng piece of old turf, with from 30 to 40 oxen, mostly Hereford's, besides a good many sheep \land Marston common field to the right, but this M Northamptonshire; pass Lubeuham; some mud walls, cabbages, barley, and clover for seed all in the same rield; oats reaped and bound; wheat stubbles mown for carrying off; oat and other stubbles; ploughing for turnips, coleseed, rve and vetches : enter Harborough.

Wildiu i h 4s.- per square yard.

 Scough towards It a/fa ton.—Ov

 ls*'
 a few fields of bat ley and turnips; co

 ^closed, mud walls and thatched c

 It houses thatched; some loos.
 but mo

 B b 4
 ha

•MEAN'S OF IMPROVEMENT, &C.

hawthorn quick ; a few dairy cows, both long avid shovt horn, but more fatting cattle of different sorts ; soil a gray loam, lighter and stronger at intervals, but generally deep and good; many sheep grazing, and some young cattle.

A considerable number of bullocks feeding, both V si tiro and long horn, aud a few dairy cows : enter Welli:iin ; mud wnlls and thatch ; tuwurds llaihton, many. .•fitch, and other bullocks, feeding B a» [), and but little tillage.

Ilallaton is a large village, with some pretty good hou ountry enclosed; soil a sound, rich, gray loam, >A whullv at pasture; a lime-kiln and a brick-kiln; lime burning/vvitb coal, but the stone not i on the spot; a smalt waste shtjep-Walk in sight on the right; cow flung burnt in this neighbourhood,

le Norton, newer enclosed laud, and more in tillage.; crops oat»» wheat, barl*. and pease mixed, also both wheat {'allow and turnips; soil strong and wet, and has been very much trodden by stock ; a bullod .'; to hft\ uoitths upon i - he in tb cadi foot a good dfcal more than he eats. The bullocks here Scotch and Welch; also some good steers am] young stock.

Eflterthe Uppingharn r. I tomuch pasture and little tillage; soil gray 13111; SOB ;it and wijeat fallow ; pasture hind, inft ,li ant-hillsiti son 10 places, in others with msiies^from \i .Istraw (galium verum) abounds some ; aid ; little variation to Bill

MEANS OF IMPROVEMENT, &C.

very large proportion of lliis tract of country at grass I beiteve at least three-fourths of the whole; little dairying; the produce mostly applied to fatting cattle a p, and the support of h< some few handsome farm houses • of Leicester, but in the east and south of ihu county many more a I in villages.

/ rdi Hiackhif, Iialf way.-Furze pre- ' * served, I suppose as a cover for game and for fuel; clocks innumerable in pastures; good long horn dairy cows; sojl a deep, sound, gray loam, sub-5oil often gravel or grit rock; some corn crops, and much pasture and mow luml; pastures overrun with docks and thistles. Pass a considi ble wood, well stocked with growing oak; some good, and some indifferent wheat and barley crops ; rushes on the high-way side; land wants draining ; beans and patches of potatoes; crops of grain and some turnip ground; a u; plough going with two horses; a pretty good frail orchard; a gr^at crop of barley by the international lime used for manure ; turnips crown, and a larger proportion of land tillage; long-horn cows, calves and young stock, as well heep ; many oats grown ; town'manure unloading from waggons in different places, and heaps of the same by the Toad side; some farm-houses in Ids, clay bottom, and bricks made.

; many farm-houses in the villa; L tnd mud-walla to court-yards; soil now light sandy loam; potatoes near the turnips; other VOpvb;!; tieat, clover, amⁱ otntoet for the nun let; the corn mangold abounds in some plac >t very abundant in a wheat crop.

towards Loughbon Hent and good barley ng, in which are soi. e plan

the.

MEAXS OF IMPROVEMENT, &C.

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tfae earlier sown the best, part Swedish; soil light loam on gravel. Pass Belgrave and the navigable Soar, some good meadows, others rough with rushes; pass an elegant mansion, with green house* and pi cabbages cultivated in the young plantations! (a cleaning system) and I believe kindly to the pi more turnips and Suedes and cabbages, somctiu three in the same field, and very often two of tin bar ley-piece veYy full of the corn marigold, two well dressed women turning barley; Swedish turnips good, nn ut here than English, in the proporti two or three tso one. Pass Rotheley, wheat ant) barley cut, turnips and cabbas grown, mowic

Maun, —Near Moantsorrel, some oats and other crops poor and foul; towards Leii cultivated s land prevalent; near the road good Swedish turnips, and the seeds of thistles I; lamcfully.

Across Cbanuvood and to Ash by ; canal here dry and out of use, aud the Cole-orton colliery standing stili at present- For more particulars of Cliarnwood—SEE CHAP. XI. WASTES.

October 5. Enter Leicestershire at Sh'ardlon; rich meadow aud pasture land in the vale of Trent; Castle Donnington enclosed 177S, 2438 acres; all the fiat land leaning to the Trent, iit grass, aud rather a small proportion of the rest in tillage; the soil a moderately light loam, fit for turnip, but turfs well; an under stratum of rock or free stone, adapted and *urn*

To Lhe Earl of Moira's—SEE BUILDINGS, OCCUPA-TIONS, Sic. theuce to Ashby, the country enclosed, except the small common furl (Is of n; Worthington lately enclosed; in several places ed poor women gather big haws for the runs* I. ptr bushel, for raising <niu jr fence

Partic u

MEANS OF IMPROVEMENT, &C.

Particulars of information collected in this district, of the county, detailed under the different heads of this survey. For Ashby Woolds—SBE WASTE LA,*U>SJ EN-CLOSURES, &c.

October. Cr td from Scraptoft towards Melton, much pasture; some large closes stocked with sheep and bullocks; a few orn cattle bred, and many Scotch and Welch bought in; soil, a deep moist gray loam ; farmhouses wholly in jes, where manufactures fyave not made tin-ir way; the population is very thin in this grazing district. Old pastures with ant-hills* and Scotch and Ich bullocks grazing.

>me fx-an stubbles, but principally turf to Barkbyarpe, where is a cherry orchard, and stocking looms. Towards Mellon; soil deep and rich, most at pasture, and lias been long in an improved state; sheep large and good ; little or no green crops raised here for wintering them, but dependant almost wholly on grass* land, around B, for some miles, particularly to the west, very little tillage, and few inhabitants, the laud occupied in forge sheep farms.

ISIh. Take the Grantham road to Wahhara; land rong and cool; pastures much infested with goose tan ng clay, apd road much cut, but repairing with lirrie-H-; oat stubble ploughing for wheat; bean-stubbl and some not harvested; little fallow or turnip ground; laud cold and indifferent. P Itham : land sounder and better, and turnips grown j soil now a sound gray loam on *iin on the Braun3ione road grows naturally the burnet (poteriura saoguisorba) and the bird's foot, nithopus peri :l ucres of ^{V|1}d park, as a cover for g fuel; alieep •ut fuller of i >n weeds, r Vurt L';auu-itone; wheat atubbles
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bits all mown with a si for thatch ox i or snuff-coloured, and of considerable : StEithern, hops in hedges, and sedums on roofs and walls ; buitdii >stly thatched ; a good many fruit trees of different sorts; soil a deep gray loam; roads heavy, but good turf pastures.

A good many fruit treea in nu lie villages in the vale of Belvoir; b»t tlie roads horrible in winter; drainage much wanted, but some going on; Elkington's system adoptedj and the mole plough i with partial Rzccesfi. Mr. King furnished me with a guide in the duke's farm bailiff, through this di^tri'

The Grsnthiini canal is a leading feature of this \-ale, as it passes almost the vibolc length of it, and 9 or 10 miles over the Dnke of Rutland's ea A ho is a large proprietor. It is navigable for Trent ! from Nottingham to Grantham—SEE CAKALS. I heard a farmer say he would not take oOl. per annum for the convenience it affords. The ho'A of this Tale is gent rally a deep gray, but sometimes a byrmn or snuft-colou: am; roads dee] LVV, and much cut, very bad in the greater part at grass; though there are some bean and wheat stubbles, and a little oats and barley grown; some wheat and some barley fellows, and a good deal of hay grown; a good many darie3 kept, and the cows mostly, but not all, short horn; a great many sheep kept of the strong licavy sort; various sorts of fruit trees, and most#of arm houses and offices wholly i

Netht __hton to Rcarsby; much pasture land, and very thin of inhabitants; seven mi road here, with *i* ______ d very few .ortunities of obtaining mforniation, except rom guide

I'rom Belvoir through Eaton and JEastwell to JJelton,

SEVELA

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the best arable land in that part of the country; which sowing on lays, and on oat stubbles; turnips, and some Swedish, but much the greater proportion of die land sheep pasture : examined the uudei in 1 in several sto»epita, they are firstly loose reddish grit stone, but encompassing calcareous matter and marine **concretions;** the upper and intermediate soil sufficiently calcareous; lower down, a more solid gritstone rock, but ei calcareous matter, and with open perpendicular **fissures;** the whole being sufficiently porous to let *off* the atmospherical moisture, renders it excellent steep and corn laud; the stone is used to repair roads, but wears the surface into a snuff-coloured loam, wliich tempers into roud in rainy **Weather**, and is only dry in thy seasons.

The white stone bottoms up to be a some of thy stone pure enough for burning into lime, but of truer incrusted with gritty matter; the surface and **iuterme**. diate soil more tenacious, not suffering the wet to pass **freely**, and therefore too wet for turnips; cabbages small spots only.

Melton by Great Dal by; :o Burrow on the Hill* and Tilton, JO miles; nineteen parts, land hi ⁸¹ght of the road, is pasture, stocked with proportion, and sonic cattle; the road lies mostly thn enclosures, with gates to opeu. Tilton, a j Cient enclosure, and part cdmmou field; the old enci-Part almost wholly old **turf**; but small plots of corm and Swedish turnips, p -own on the *to* ^{ar}*d succeeded by-barley with *i* for sei **y^rs**; **the** common field in the course fall ^{t11e} wheat **rtubble** carryuig off, v «« ¹ a good deep gray loam, capable of producing great even in the com moo field tillage.

BOTANICAL CATALOGUE.

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Pass Church Langton; a large modern enclosure; the soil generally a strong gray loam upon a gravel bottom; has small plots of cabbages, but no turnips; the stubbles and stacks are wheat, beans, barley, and oats, with a good deal at grass, to Market-Harborougl).

Leicester, towards Welford. In the villages in this route, gardens and court yards are often fenced with mud vails, cop \leq d with thatch, on which grow the round leaved stdums; many cottages and farm-build ings are walled with the same material; land sound and good; deep gray loam on clay or gravel; some corn grown, but much more pasture; stock good; land sometimes deep brown loam on limestone, at 5 and one-half miles cross the Harborough canal at a coal wharf; several lime-kilns on the canal, stone on the spot, but coal brought from a distance. Many other excursions made in the county, and the minutes made, arranged in different parts of this survey.

BOTANICAL CATALOGUE

Of the principal British plants which may either be v as food for mankind, or are eaten by cattle; many (if which may, very probably, be much improved both in bulk and quality, but have not yet been brought into general cultivation.

THE first class of plants that naturally offers itself to notice, is that of Diadelphia, from which many good selections have been already made, as the red **and** white clover, trefoil, and annual vetch; also **Iucerii**, which is **worthy** of more attention than it lias yet received, and sainlfoin.

BOTANICAL CATALOGUE.

hilly situations; but these have been named *hei*

main well worthy of
craoca & syl-
vatica)vatica)t and shady jadpws and
fields; anby all suits of cr green or in
bay, and !bay, and !tble, would Li-herbage of a!!m>;\m[pastures:

2; The lathyrus tii eds of all which, Dr. Withering says, are nutritious, cither eaten in broth, or made into bread; some of them are very beautiful *m* flower; then; chling (lathyrus pratensis) is very common in Leicestershire, in h •adows, and pastures, is perennial and productive, and eaten by all sorts of cattle, green or in hay.

•3. Of the trifuliums, the seeds of the cow grass, or true perennial r₄ed clover, have not, I believe, been yet common m the markets; (leaves longer and narrower, ami blossoms of a deeper colour than the common clover) ^marl grass of Hudson, (trifolium medium &, u I pest re of different botanists, and trifolium flexuosura of Withering) I the seeds commonly sold have been a variety of ti<'ium pratense; fif those of o true perennial *red* could be obtained, it would be an acquisition to our pastures which are meant to lay sei

The harewfoot trefoil (trifolium served to | • the barrenest and *drm* cat it well, it might be worthy soils.

The melilot (trifolium melilotu turiant growth; horses are very fond o; ^ ofan ^served, and I believe all soi -; it bears character of being a corn \ 1 good pasture plant, as well as in hay, being more fragrant dry than green.

4. The liquorice vetch (astragalus glycyphyllos) is of the most luxuriant growth, and eaten by all sorts of cattle, but has, 1 believe, never yet been cultivated.

5. Kidney vetch, or ladies finger, (anthyllus vulneraria). I have often seen this plapt grow with vigour upon poor barren soils, and on such think it worthy of cultivation, if not on better land; my horse eat it freely; cows also eat it.

6. Bird's foot trefoil (lotus corniculatus) of very general growth in most strts of land, meadows, pastures, heaths, and road sides, and not liable to lose its verdure in the driest weather; horses and cattle eat, in Hertfordshire; it is cultivated for sheep; (Bot. arr.) I have often wondered its cultivation was not more general; it Is strongly recommended by Mr. Anderson; it grows much higher than any of the trefoils, or medicago lupulina, aud aukes extremely good hay.—*Mr. Woodward*.

7. Common bud's foot (ornithopus perpusillus) growson sandy banks, road sides, heaths and pastures; found it on dry banks, in the vale of Belvoir; not subject to be injured by drought, and worthy of cultivation in poor dry land.

8. Yellow medick (medicago falcata) in sandy pastures, and about Norwich plentifully; in hot, dry, barren, sandy places, it is well worth the trouble of sowing, for the purpose of making into hay, a practice long singe adopted in sonre parts of Sweden—*Withering*. All kinds of cattle eat it.

9. The sea pea (pisum maritimum) deserves more attention, if what be said of it be true, that in 1555, during a time of great scarcity, the people about Orford, in Susséx, were preserved from perishing, by eating the seeds of thiar plant, which grew there in great abundance (Bot. air.)[•] upon the sea coast. Supposing this correct, it must be very nutritive and productive ; and all sorts of cattle are said to eat it.

10. Wood peaseling, (orobus sylvaticus). I have seen this plant in flower and pod, very early in the spi ing, upon poor cold soils; whence it sesms probable, that sown in autumn, it would be a very early spring plant; all sorts of . cattle eat it, and it flowers in April and May on poor cold land, but in sheltered situations, being commonly by hedge sides, or in woods, though it may be found in pastures; it is a perennial plant.

Of the grasses, some of the principal have been mentioned before, in Chap. VIII. on GRASS LAND; and recommended for cultivation by name, with a list of others. The following are recommended in addition:

Meadow soft grass, white hay-seeds of Yorkshire (holcus lanatus). 1 have seen a piece of upland mow well with ihe natural produce *of* this grass, the first year; when the •>ecds sown have failed; it is fine in the stem, and makes good hay as well as good pasture.

Timothy grass (phleum pratense) has been cultivated ^and is productive; but somewhat coarse; is good in hay anJ pasture.

Dwarf meadow grass (poae annua) excellent fine and **weet** pasture; will sow, and re-produce itself quarterly, if not grazed. Suffolk grass, worthy of being sown in any Pasture, if the seeds could be procured; i» sometimes troublesome on paths and gravel walks, froln shedding its seed, **an**d their tenacity of growth.

Aquatic grasses.—In situations where water could be shed over the land at pleasure, the flote fescue (festuc* : LEICESTER.] c c fluiu«y fluitans) would make an excellent rich pasture; I suppose it might be easily propagated, as its seeds are in abundance. It is to be found in wet ditches, and on the edges of ponds Tery common. Dr. Withering says, the seeds are small, but very sweet and nourishing; they are collected in several parts of Germany and Poland, under the name of manna seeds, and are esteemed a delicacy in soups and gruels, on account of their nutritious quality and grateful flavour: geese are very fond of the seeds, and well know where tQ find them'; many a poor old horse has been bogged in search of this grass, of which they are remarkably fond.

The water hair-grass (aira aquatica) would albo make a very good addition to the last, in a flote meadow; it grows in drains and watering places, and on the banks of rivers; and has the most saccharine taste of any native plant I am acquainted with; cattle are very fond of it, and it is of fine and kindly appearance, and must be very nutritive.

The reed meadow grass (poa aquatica) is an extremely useful grass to sow upon the banks of rivers or brooks, where it often grows naturally. Mr. Curtis informed mt that it was cultivated in the Isle of Ely; all sorts of cattle are extremely fond of *it.—Withering*.

The reed grasses (arundo phragmites, 8c calamagrostis yariegata) are very productive, and acceptable to horses and cattle in their green state; they, as well as the preceding, should be mowed, atid carried to the stalls or stables. J have known and heard of several instances of large teams of horses doing well with them in summer, and they are equally acceptable to cattle of all sorts.

The rib grass (plantago lanceolata) has been often sown with other seeds; it has been observed, that cattle refuse it alone; but 1 have been informed by an attentive grazier, that the greatest value of this plant is in its seeds, which cattle devour eagerly, and that they are very, nutritive.

Meadow burnet (sanguisorba officinalis) has never, I believe, been cultivated, but is in great plenty in moist meadows, and in some moist pastures; it makes good hay, and as I have been assured by an attentive friend, preserves the colour of hay it abounds in, of a fine green, and prevents its being discoloured by over heating.

Comfrey (symphytum officinale) and English mercury, or wild spinach, (chenopodium borons Henricus) have already obtained a place in many gardens, and are a good addition to our esculent herbage ; the lamb's lettuce (valenana locusta) very common in the field, isaho cultivated as a sallad; and the (cardamine hirsuta) hairy leaved ladies smock, is worthy of the same attention for the same purpose, and has, I believe, in some places, received it; and Dr. Withering has recommended the pig-nut (bunium flexuosum) to attention for the table.

The upland burnet (poterium sanguisorba) is a native of the vale of Belvoir, and other calcareous soils in the county. -SEE CHAP. VII.

The chicory (cichorium intybus) has been tried here, **but** is not adhered to; both this plant and the goat's beard, (tragopogon pratense) as well as the sow thistles, (sonchus ^{ar}vensis & oleraceus) are extremely productive, and would yield a deal of food for cattle, hogs, &c. if they were kept **mowing**, and not allowed to run to seed.

 $\begin{array}{c} \textbf{Th}_{e} \ cow \ wheat \ (melampyouin \ pratense) \ common \ in \\ \textbf{many} \ Moods \ and \ meadows, \ is \ recommended \ as \ excellent \\ \textbf{cow} \ herbage, \ and \ deserves \ more \ investigation; \ and \ lastly, \\ \textbf{the} \ hog \ _{Wee}(j^{\wedge} \ _{or \ c \ o \ w} \ p_{arsn}j_{p} > \ (Heracleum \ sphondyllium) \end{array}$

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is extremely productive; and Dr. Darwin says, cut off near the ground, in the spring, yields from the stump much saccharine juice ; a proof of its nutritious quality, it yields an ardent spirit; the leaves are eat by cows, goats, and sheep, and are the favourite food of rabbits and hogs, and the plant is worthy of more attention.

APPENDIX.

THE following Essay on Vegetation, it was proposed by Sir John Sinclair, should be printed by way of Appendix to the corrected Survey of Leicestershire. The author, Mr. Ainsworth, had been a very ingenious nurseryman and country gardener; and when the Author of this Report saw him in 1797, had retired from business, to live in private with some relations in Leicester.

Prefixed to the Essay are some Hints, by Sir John Sinclair, on the Subject.

HINTS ON VEGETATION,

SIR JOHN SINCLAIR.

٠Y

T U B object of any inquiry into the nature and principles of vegetation, *for practical persons*, must be, to ascertain in what manner those plants, which are necessary for the use of man, can be most easily brought to their greatest Jegree of pt rfection. For that purpose, it is essential to know, what particulars are necessary or useful, and what are adverse to vegetation. The former may be considered c c 3 - under

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under the following general heads, namely, Earth or Soil, Air, Water, Light or Heat, Manures, or dead organized Matter and Cultivation* The latter may be restricted to two points, to wit, noxious substances in the soil, and vermin.

I.—OF THE CIRCUMSTANCES ESSENTIAL, OR FA-VOURABLE, TO VEGETATION.

1. Earth—The necessity of soil, for the growth of plants in general, both for the purpose of holding the plant steady and upright, and also for containing at least some part of the nourishment on which it lives, is sufficiently obvious. Aquatic plants will grow in water, but they have their roots in earth. Marine plants, it is true, grow upon bare rocks, but then it is well known that they are fixed to them; that they live upon sea water and air, and that the greater part of their Substance consist of saline matter. Some authors have contended, that plants are actually nourished by the earth alone. But such an idea is sufficiently refuted by various experiments, and in particular, by the small portion of earth that is found in plants, so very small indeed, that the very water which they imbibe, . from the particles of earth which it contains, might produce it.

2. Air,—This element seems to be another essential requisite to the growth of plants ; and pure air also, is necessary for bringing some of them to perfection. There are many trees (the laurel, for instance) that will not grow in the contaminated air of London, but thrive at or four or five miles distance. Many kinds of fruit trees will not bear good fruit, nearer than three or foi*r miles from that metropolis.

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metropolis. In short, pure air seems to be as necessary for the healthiness of plants, as fyr that of man.

Of late, some respectable philosophers, indeed, have entertained an idea, that atmospheric air, is the sole, or at least, the principal food of plants. Some decisive experiments, in regard to that doctrine, seem to be wanting. Trees which spread their foliage in the air, are not, probably, furnished with leaves for ornament merely. The advantage of fallowing, also, according to some, proves that the earth extracts nourishing substances from the air, when exposed to its influence.

3. *Water.*—That water is of most essential consequence to vegetation, seems to be on all hands acknowledged. Indeed many contend, that it is the sole food of plants. It certainly supplies the materials of the sap, which is the blood of plants, without which they would perish; many instances being known, of trees dying, whose sap was ex-The great improvements which are made by the hausted. *mere* watering of land, prove the powerful effects of that element. But it seems more favourable to the growth of grasses than of grain, for though, by irrigation, perpetual crops of grass could be obtained, yet it has been found by experience, that land, if cropt with grain, was completely exhausted, though regularly watered, which could not have been the case if water was the sole food of plants. It is certain, however, that a large proportion of every plant consists of water, and that moisture is probably the vehicle, by which all the food, which the plant receives, from the root, is conveyed to it. However beneficial water is, all Waters are not equally so. Hard waters are certainly hurtful, particularly to young plants. Mineral waters, as that *f Cheltenham, &c. are known, by experience, to be injurious.

4. Light and Heat.—Light and heat are, perhaps, not c c 4 BO

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ap necessary for the growth of plants, as essential for their attaining perfection. Plants will grow in the dark, as iu mines and cellars, but it is questionable whether they would bring their seeds to perfection in that state. Light is certainly necessary to give them the proper colour. Plants are so fond of light, that they will always bend that way, if put into a dark place, with a hole or window where any light is % admitted. Few plants are calculated for cold countries, and those arc seldom valuable. Heat is certainly necessary to bring fruits to perfection, and wherever there is the most heat or light, there the plant will have the greatest quantity of saccharine matter. Hence, English barley, of equal weight, is more valuable than the Scotch, producing a greater quantity of malt liquor, or of spirits. Plants which seem dead, from the severity of the season, are revived by warmth of the spring, strengthened by the heat of summer, and acquiring fresh life and vigour, are thus enabled to withstand the rigours of the succeeding winter.

5. Manures, or dead organized Matter.—It seems to be a part of the beautiful economy of Nature, that nothing should have lived in \ain, and that the destruction of one plant, or animal, should furnish food for another. Hence, however useful earth, air, water, and light are, to the growth of plants, it is questionable whether they could ever come to perfection, without the aid of matter that had l>een formerly organized. The richest soils, it is well known, are full of dead vegetable manure, and there is no soil that will not produce plants, if a sufficient quantity of dead animal, or vegetable substances are incorporated with Under this head is comprehended, all those manures it. which are found so useful in cultivation, more especially those to which some authors give the name of enriching, jjr nutritious.

It might here be expected, that some allusions would have been made to those saline substances, on the advantages of which some authors have laid so much weight. But salt does not seem essential to the growth of any species of plants, the marine alone excepted ; and there are many productive soils, in which little, if any salt, can be traced. Salt, however, is of use to vegetation, though not essential to it. It may opeiate upon plants as it does upon the human body, assisting to digest the rood, without furnishing nutriment itself. It is also of use in at* tracting moisture, in destroying vermin in the soil, and in putrifying the roots of any plants it first meets with, thus furnishing nourishment to the succeeding ones.

6. *Cultivation.*—The culture of the earth is essentially necessary for the growth of plants to perfection. Bv di* viding'the particles of the soil, the roots can more easily penetrate it, and they can more readily suck in the nourishment which it contains. By proper culture also, weeds* or useless plants, are extirpated, whilst stirring the earth admits more air and moisture to those which have been Young trees certainly thrive much bettor, if the sown. soil in which they are planted has been previously ploughed so deep, as readily to admit their roots and suckers. Even after they are planted, it is supposed to be of great service, to cultivate . potatoes and other roots among the young plantations.

II.—OF THE IMPEDIMENTS TO VEGETATION•

THE principal obstacle* to vegetation seem to be, noxious substances in the soil, and vermin.

I. Noxious Substances in the £oi/.—There are certainly , many

many substance in the soil, noxious to vegetation, in particular, those of a metallic nature. Where mines of iron, lead, or copper, are near the surface, no plants will grow to perfection, which is well known to be the case at the lead hills in Scotland, &c. *Schist us* $_y$ in which generally there is a great deal of iron and allum, is so unfavourable to vegetation, that any considerable quantity of it would destroy the fertility of the richest soil. Fallowing, or exposure to the air, and the use of lime, will, it is supposed, correct the noxious qualities of those substances.

There is also an astringency or acidity in peat, so noxiious to vegetation, that until any quality of that nature is subdued, though that species of soil is a mass of vegetable matter, yet nothing but heath and other miserable plants will grow in it.

2. Vermin.—Plants are also much injured by the various sorts of vermin with which both the earth and the air abound. Those which inhabit the earth, might certainly be easily destroyed by salts or acids. In regard to the myriads of insects with which the air ^abounds, it is more difficult to point out a remedy. It is said, that in some parts of the Continent, they surround their gardens with a broad row, or belt, of hemp, the smell of which is particularly noxious to insects, Sometimes vermin are occasioned by the weakness of the plant, and the poverty of the soil in which it grows. This is supposed to have been the case in regard to the celebrated Hessian Fly of America, which originated from bad culture during the war, in consequence of which the wheat became stunted and diseased. It vanished with good cultivation; and indeed it is asserted, that fields, properly manured, were never affected by it, though in the immediate neighbourhood of those which were.

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APPENDIX*

MR. HANFORD AND CO'S IMPLEMENTS, 1803,

No 1. A single furrow plough, for a pair of horses abreast, or for. two or more at length as required, with two wheels; this will go without holding; the mould board is cast iron, with a steel rest, and will wear for years without repairing; it may be used by hand without wheels, or with one wheel only.

No. 2. A one furrow plough with a skim coulter, to pare off the turf, or rubbish, and lay it underneath the furrow.

No. 3. A strong plough with a stay to the coulter, to plough up gorsy, or rough, or hard land; one or two wheels may be used; it is very useful on rooty balks by hedge sides.

No. 4. A trench plough, for cutting drains in wet land, will save a vast expense in hand trenching; it cuts a trench from three to seven inches deep, and from four to ten inches wide, and turns the furrow six inches off from the trench.

No. 5. A trench plough for skimming off turf, and the hind plough covering it, making deeper soil, and clean surface.

No. 6. Horse-hoe plough, for earthing up cabbages, potatoes, or any crop in rows; the mould boards may be taken off, and the steal hoe plates put on instead, to cut up weeds only, and leave them to wither without earthing the rows; it will work at different breadths, as may be squired.

-Harrows.—A, a pair of light harrows for one horse, for seeds, turnips; &c.

B,'C, sets of pulverizing harrows, which may be worked either by drawing double, or single, upon the land; or by drawing in the furrows only, if the land be wet, and the season difficult; one set serves for either way, by changing the swingle tree only; the tines take every one a fresh truck at about one inch and a half asunder, which makes fine and equal work.

E, a pair of strong harrows, which may be drawn either by drawing double or single, upon the same principle.

HchuffierSy rakes, 8\$c.—No. 7. Improved schuffler, will work nine or fewer tines, or teeth, as may be required, according to the state of the land for rubbish, as the teeth are moveable up or down, or may be taken out in part, according to circumstances.

No. 8* Twitch rake, to gather up rubbish after tfie schuffler or harrows for burning, which it does with great expedition, making clean work, and doing a deal in a day.

No. 9' A horse-hoe, or schuffler, in which three, five, or seven hoes may be worked, cutting a width of from 16 to 36 inches, betwixt rows of beans or other^trop, to loosen the soil or destroy weeds.

No. 10. Light one-horse car; the rails are applied for top loading.

No. 1]. Large rake with elastic steel teeth, which will bend and give wayj without ever breaking.

No. 12. Implement for slaughtering cattle.

No. 13. Rake with a joint in the middle, for uneven land, or for narrow ridges.

No. 14. The double hand rake, which pulverizes the soil much better and quicker than the single one.

No. 15. The hoe, with a fork to take up hassocks of grass.

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* Rutland. Degr. Joh Mr. Hanford's Implements ?? 1.9. TH



Suge . 196 iesaw to Rulland : Mo Hanford's Implements Nº.12. Nº13. 亂 Nup. Nº16.

Capital and improved Implements of Husbandry, respectfully submitted to Noblemen, Gentlemen, and Farmers, in every part of the Kingdom.—Joseph Hanford and William Davenport, Ploughwrights, at **Itathern*** near Louskborouvh, Leicestershire.

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MAKE ploughs suitable to every kind of land, and all kind of implements used in husbandry; many of them entirely new and improved, and all of thorn of the very best construction.

In the construction of ploughs, they have at this time made great improvements upon the cast iron mould boards, superior to any yet made, as they will not clog upon clay land, and will last, in full work, for a number of years. They are readily put to new wood-work, and made in such a form as to turn perfectly clean, and to lessen the friction in the greatest degree possible. The rest and shelboard are of cast iron and all in one piece, which adds to th» •trength, and the whole is not so liable as wood to break. They may be put to any sort of single ploughs, and will be ^ great advantage to people who have very sandy and gravelly land, which wears out iron plates so fast. The bottom is steel screwed on, which can be taken off and repaired at leisure, if needful; this plan will save that common expense and difficulty.

Skim ploughs may be put to them to skim off the turf or weeds, which will make the land much deeper of soil, and lighter for cabbages and carrots, and much cleaner on the surface for grain or seeds, as the rubbish is all under furrow.

Plough

Ploughs of various other sorts.

Common Dutch ploughs.

One wheel ditto.

Two wheel Dutch ploughs.

Two furrow ditto.

Trench ploughs, to plough two depths at the same time.". Hoeing ploughs, to mould up cabbages, potatoes, 8tc.

Small ploughs for one horse, with moving mould boards,

to mould up beans, potatoes, turnips, &c.

Top draining ploughs, the best offered to the public.

Machines of different sorts, for cutting turnips; much improved and of the best quality.

Steel spring tooth rakes, for hay and corn, superior to any yet offered to the public.

Twitch, rakes, to work with one horse.

Scufflers of various kinds:-These implements are found of great utility for cleaning fallows and other tilts; saves a considerable expense in ploughing. This machine is so calculated to work the land in any state, as it can be altered in the foulest state without clogging, which in general these implements are subject to. It is also so contrived as to increase or decrease the hoes according to the situation of the land, which render it superior to any. We have made it our study for upwards of twenty years, and have paid great attention to both the theoretical and practical part of making different kinds of implements and working the same, therefore we flatter ourselves that we have made more improvements in them than any in this part of the kingdom; and return our sincere thanks to the noblemen, gentlemen, and farmers, who have favoured ns with very extensive orders from most parts of England, Scotland, Ireland, and America.

Several

Several have attempted to make different sorts of implements by our models, but for want of having proper ideas of the trade, it has been very injurious to the public, in putting them to expense, and having things that are nearly useless; therefore, if any of our articles we recommend, are not approved of, we will take them on return. If gentlemen with their orders will inform us of die nature of the soil they intend to work them on, they will liave their implements made suitable to the land.

Pulverizing harrows, very capital of the find:—These are made on such a construction as to perfectly cross tine, and as every tine takes a fresh direction, which pulverizes the land as much at once going over as the common harrows do at two or three times, and renders them much better for hilling corn and seeds, as seven tines will work up ten inches wide ; and when the harrow has gone over the ground, it makes forty-eight tracks at an inch and half distance, which id nearly as fine as a garden-rake works, and rt is remarkably thin of tines, so as any dung or rubbish will push through without much clogging, which many harrows are subject to.

We have made a considerable improvement in working three harrows with two horses, to work ten feet wide the couplings, in so simple a manner that they Can be taken asunder in one minute, and make a pair of seed harrows A>r one horse. They will work ten feet lands without trampling on the land, for each horse to go down the furrows; or twenty feet lands may be worked with only one horse down the ridge of the land, and the other horse in &• furrow. The couplings of these will rise and fall as the land varies, and not ride on each other, or liable to turn ** er, and will turn on the smallest headland. This plan will

APPENDÍX.

will be very useful in wet seasons, or with a pair of horses double in the common way of harrowing. The method of drawing these pulverizing harrows, to work the horses ten feet asunder, and not one horse to go faster than the other, will be managed nearly as easy as the common way of drawing horses double, and will be pointed out to those, gentlemen who honour us with their commands. The harrows may be worked three or four different ways, which renders them very useful at a small expense.

All kinds of implements of husbandry may be had at the shortest notice, of the best materials, and on the most reasonable terms.

*Ready money zcill be expected from distant cartes^ pondents**

Persons having iron-work belonging to old ploughsharrows, &c. by sending it, may have it put to new woodwork, which will save a considerable expense.

Implements may be sent to almost any part of the world, by land or water-

Implements may be sent to the following Places:

Angel Inn, Lougliborougli; Bell Inn, Market Street; Green Man Inn, St.Afbans; Dolphin Inn, Huntingdon; Queen's Head, Mansfield ; Old Angel, Chesterfield; Bull Inn, Ashborne; Crown Yard, Coventry; Wool Pack, Warwick; Mr. Clarke, smith, Oakham ; White Horse, Leicester.; Rodney Inn, Northampton; Talbot Iini, Stamford ; Black Horse Inn, Cambridge; Talbot, Nottingham; Red Lion, Derby; Castle, Tamworth j Plough, Hinkley; Horse Shoes, Melton; George, Grantham; Coach and *Horse**

400

Horses Inn, Kibworth; Talbot Inn, Market Harborough? White Horse, Cripplegate, London; Waggon and Horses Inn, Sheffield; Old Bear, Burton-upon Trent; Bridgewater's Arms, Manchester; Public Wharf,Birmingham; Bull Head, Market Bosworth; Horse and Groom, Burleigh, Rutland; Brown and Withers, Liverpool; Huddlestone, Brown, and Co's, Warehouse, Newark.

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GENERAL VIEW

OF THE

AGRICULTURE

OF THE

COUNTY OP RUTLAND;

WITH

OBSERVATIONS ON THE MEANS OF ITS IMPROVEMENT,

DRAWN UP FOR TEE

CONSIDERATION OF THE BOARD, OF AGRICULTURE

AND INTERNAL IMPROVEMENT.

BY RICHARD PARKINSON.

LONDON:

PRINTED FOR RICHARD PHILLIPS, BRIDCE-STREJJT

[J. G. Barnard, Printer, Snow-Uill.]

1808,

ADDRESS TO THE READER,

THOUGH I have had frequent opportunities of hearing the public opinion, on the Reports already published by the Honourable Board of Agriculture, during my journey in the collection of materials for the following Report, and frequently heard much censure passed on the Reporters for the insertion of opinions so much at variance, even in the same parish, many of which it is asserted, ate too absurd and ridiculous for insertion. I have, nevertheless, pursued the same plan, being (independent of my Orders from the Board) well convinced of its utility; for many systems, which have at first been considered as improper or absurd, have at last proved much to the contrary. Besides, from difference of opinion, something useful may be gleaned, and from the comparison of systems in their various stages, every one can chuse that which he thinks best. In drawing up the following sheets for the consideration of the Board, not one parish is omitted, the information being drawn from gentlemen to whom I was recommended, and whatever I could collect laid down in such a manner as will, I hope, meet with their

appro-

approbation; having endeavoured to place every thing in so clear a light as to enable any ^r.r., in possession of the Report, to gain a knowledge of any part of the county, adequate to buying an estate or taking a farm. It now only remains for me to observe, that wherever, my own opinion is given, I have endeavoured to steer clear of giving any one offence, as far as is consistent with what I conceive to be the duty of a Reporter, and have endeavoured to give such a general opinion for the improvement of the Agriculture of the county, as seemed to my judgment best adapted to it; in which, should I have erred, I hold myself accountable for such error, observing that, in a *general* opinion error is very liable to creep in, as even on one field very different management, from its variety of soils may be necessary, how much more then upon a review of a parish or district.

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RUTLANDSHIRE-

CHAP. I.

&EOGRAPHICAL STATE AND CIRCUMSTANCES.

SECT I.—rftTUATION AND EXTENT.

A HE county of Rutland is bounded by Leicestershire on the north> north-west, west, and south-west; by North* amptonshirc on the south and south-east; and by Lincolu* shire on the east and north-east. It is of small extent, being but 48 miles in circumference, and is divided into five hundreds, containing 91,002 acres and 29 perches, which are applied in its several parishes to the uses expressed in the following Table.

14	
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A R	
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SECT. II.—DIVISIONS.

1. POLITICAL.—The county is divided into five hun-Irccls, viz. VVrandyke, East, Alsto, Okeham, and Martinstf fry-three parishes, and four hamlets, including two market towns,—To make the report as perfect as possible, au account of the number of acres in each hundred, the state of each parish as to its being enclosed, or otherwise, w >n of the sort of timber in such enclosures, and in what manner enclosed, is subjoined.

WRAKDYKE HUNDRED.

BARROWDEIY,	Opeu fields.
BISHBK0OKE.	Enclosed by quickrtborn hedges, with a small quantity of tim- ber in the hedge rows.
CALDECOT.	Quick-thorn hedges, and no tim- ber.
DRY STOKE.	Enclosed by quick-thom and holly, ith a tittle oak and ash timber in the row*.
GLADSTONE.	Enclosed, quick-thorns, end a fritting number of ashes in the rows,
LYDBINGTON.	Enclosed, quick-thorns, and a few young trees in the hedge-row«.
MORCOT.	Chiefly open fields, some small enclosures, and a small quantity of timber.
NG RTH LUFFENHAM.	Open fields, except a few old * t> closures, where there are oak», , 9hd elms in the rows.

DIVISIONS,

PILTON. SEATON. SOUTH LUTTENIN AM.

THORPE. TIXOVEB. Op fields, lint well tit Op fields. £ ind open fields. Qp

En by quick-hlittle timber in the i

EAST HUNDRED,

RIDGE CA This hundred contain? perches.	Enclosed by quick-thorn hedges, witba little tnuht i Enclofed I)v quick-thorn h with oak- ashes in the rows, about sis trees to the acre ; are sixty acres in this parish planted with young forest intt
Essendine. 1	d and allotted into fai
KETTON.	nbdividi closed by queck-thorn hedges, but having no timber in
LITTLE CASTERTON.	rows. EIICL quick-thorn-hi in the- <j!!!1 are="" enclomurea="" small<="" th=""> quantities of ash and elm*; in</j!!!1>
	this new enclosures none.
RYALL.	I'nclosed by ijuick-thoitf hedgi but no timber in the rows.
TICKT.NCOTE.	Ditto, ditto.
TINWELL.	quick-thorn hedges, ih Limber in th<
This hundred contains	18,169 ac ed. ALSTO

DIVISIONS.

ALSTO HUNDRED.

ASBWELL

BURL:

COTTESMOHE.

EXTON.

and the second second

GIBEETHAM.

MARKET OVERTON.

PICKWOKTJI.

with a little **ab time** i in the rows.

quick-thorn hedge ,th ash pullnrr The purk contains 1 and covci very large on! :li trees, of groat and info d with all dots of forest I

End v quick-thorns; in (he old enclosures are pjauttd oaks am ; in the new enclosun is omitted.

tick-thorns, but no timber in the rows. Here is a v irk, containing 1510 acres, covered with great numbers of.timber u nig of very large ou ;. elm, and be

•U timbered in the rows with es.

Enclo ;k-thorn fences, with a small quantity uf elms plai *> *>y die V [opkiusoh.

4 • JyrKETTO

Euclosed with quick thorns, with a little timber in the rows.

DJVISIO

STRETTON.	Enclosed with quick-thorns, arid <i>wall</i> timbered with large oaks
TEIGH.	and ash trees in the rows. Enclosed with quick-thorns, and a great quantity of ash timber and some tlais in the hedge
TRISTLETON.	rows. puclotted as above, and very well
WIS5END1NE.	with here and there a Jew oaks, as shove, and a hide quantity of a&i and oak trees
Wi _{TWELI} ,	<i>\u</i> the rows. Principal I v open fields, a few oh enclosures, aud a little timber

This hundred contains 27,091 acres and 2 perches, being all enclosed, as will appear in the above list, except **Witwett.**

in the rows.

OKIIIIAM SOKE HUNDRED.

BARLEYTHORPE.	Enclosed b> (juick-thorn hedges, and a small quantity of ash timber in the rows.
JJELTON.	Enclostd as above, with a small portion of timber in the rows.
BRAUNSTON.	Enclosed as above.
BROOKE,	Enclosed as above, and well tim-
	rows
CLIFSBAM.	Ditto, ditto.
EGLETON.	Enclosed as above [^] and a small
	quantity of oak and ash m the
	rows.
- all strates	Fj ITTOL

EIVISIOXS.

FLITTORIS.

LANGHAM.

OAKIIAM.

Enclosed by quick-thorn hedg. and a smalt quantity of oak and ash in the rows.

0

Enclosed as above, with a great number of pollards in the **row***. Open fields.

Enclosed witii quick-thorn hcd. and small tjua;jtitie.« of ash aud elm in the rows.

MARTINSIXY HUNDRED,

ATSTON.	Enclosed by quick-thorn hedges* with timber in the rows; thue also a spinney, containing 7 acres, of 17 years growth.
EDITRWESTOR.	Enclosed as above, and a small quantity of <i>Qsk</i> , ash, and elm timber in the tpwa .
JIAMBLKTOX.	Enclosed as above, and pretty WPЛ timbered with ash and oak.
LTNDEN.	Enclosed a? above, and well tim- bered with oaks , ashes, and elms ia the rows, and one acre of ash poles.
VI AN TON.	sclosed with quick-thorn hedges, whh * Jung timber trees ill tlic F9W8*
MARTINSTHOR ?E.	Encl< above, with some ih timber ia the <i>TO</i> \\n.
	NoRMANTOI*.

CLIMATE.

10

NORMANTON.	I. I withqutck'thornhedgi with six young trees planted in the rows, ju . Here is a park containing 400 acres and about <i>O C</i> ¹⁰⁰ large timber
	trees, consisting of oak, ashj beech and limtrs.
PRESTON.	Enclosed by quick-thorn hedges, in which are ir , v fine
	ash trees.
RIULINGTON,	IJIT losed by quick-thomas, with
	little timber in thr row
I'INC E AM.	nclosed b; :k~thorn&, with
	tiniber in the rows; here is
	abo a *>[; muey of 2 peres.
\\ ING.	Enclose d with quick-tho
	and a small quantity of timbt-r
	in the rov

This hundred contairn 15,340 acres, '2 mods, perches, including Beaumont Chase, which con aci> id has been allotted to Uppmgham, f,vd(Hngton, ami Wardley.—(PAGES 2 and 3,)

SECT. 3.—CLIMATE.

The climate is very good and healthy. It is thought that the mnds blow as many days in the year from one quarter as another, the west exempted.

Por the quantity of rain fallen for the follow!: years, I am indebted to Samuel Barker, Esq. of Lyndon, who formerly kept an accurate account, but has now his jour;

Inches.

n the year	I Tin 24,	78
	1792 29,	40
	17 13 • 22,	91
	1794 26,	58
	\7yz 21,	40
	1796 22,	08
	1797 27,	85
	1798 21,	i)3.

Mr-neight y I; but, as the year 17' a very large one, the average, probably, should not bo more tliau C1 inches.

SECT. IV, -SOIL.

tJ:*rn;it this head will be shewn the number of acres of it soils in i inpuU;d tli rough out the cuunty, in alphiibctical order.

ABHWELL.	GOO acres of <i>red</i> Jand, 630 acres
	good clay _T and GOO acres
	of poor ci
^TON,	590 acres of red 1:md ₇ 598 of
	white eliiy.
BARLEYTHORPR.	250 acres of good day, 500
	soor clay, 250 acrei
	of hazel earth.
BARROWDEN,	350 acres of red and, 750 of
	and, 600 of black
	clay,
Br.LTON,	485 acres of good clay, 242 of
	poor white clay, 245 • if gra-
Smith Engl resource	olly clay.
BIS• IbHOOKE,	450 screen jf sauJy land, 400 of
	red

IS	SOU.
	red land, 450 white clay, 450 hazel earth.
BHIDGE-CASBERTON,	1500 rtd stony land, 500 wood land.
BttANfiTON,	465 acres of creech land, 926 of good clay.
BROOKE,	9C7 acres of good strong soiij 464 of white c!.
BURLEV,	07 acres of red land, 753 of strong clay awl good feeding land, 754 of poor white clay.
CALDSCOT,	0 arres of very good loam, 5 of poor while clay, 275 poor black day.
CLIP; HAN,	•0 acres of tolerably good clay, 00 of poor ?our clay.
CoTTJSBNOfi	3597 acres of red land, 799 of cieech land, and 799 of wood land.
DR1 STOii ;	3016 acres of good red ⁵ 3 of tolerable good quality, there being but little or no bad land in this par is
EOITHWtSTON,	400 acres of red land intermixed wilh pebbles and good land for turnips and barley, 500 of woodcock loam, 606 of lime 'lie, and 434 of sandy clay.
EOLETOW,	ere* of rich gravel. 432 of red soil, 215 of poor \v! ay.
fewPINGHAW,	10 acres of sand land, 100 of wood land, 3^00 of cieech land.
Essenpine,	190 acres of poor clay, 520 of stony

13 SOLLA stoly Jand, SSO of tolerable . 410 of heath land. EXTON. b land, 2367 of strong :ofim, 1J7S acres of ft mixture of loam and creech* > acre* of poor white clay. FMTTOB 1 GLAYSTON. 1100 heres of very gool red luiuL ! of clay land, J70* **GfiEETtlAM** of lime stone, c: being very proper for sainfoin. UNTII' 200 gravelly soil of good qualit; ior Viatt producing furze. UAMBLETON, 970 acres of poor white clay, 1340 of seal* id. fiO acres of red clay, G25 of KETTON, whiteclny, andi ii» bbi 1400 of exceeding good loam, LAI 2 of very good red land, and 702 of cold cby. LEAFLELDS, 100 of rich clay, 2iO acres of good red soil, 840 of poor clay LITTLE CASTERTON, 175 acres of strong clay, 87[^] good clay. LYDDINGTON. 535 acres of red land, 1604 of strong clay. LYNDEN. 440 acres of very good red land, £75 of good chy, «75 of poor Viite clay. iNTQtf, 0 acres of good red laud, 630 of good

14	SOIL.				
MARKET OVKRTON,	good Btrong 0 of pa white da 900 ≫ nd, good for tun rli, 370 of v.				
WtTINS'IHOUFK,	268 acres of very rich clay, 2 ^r)\$				
M OR COT,	£00 land, 250 of v land of tnd, anf! rather poor.				
Non-iANTON,	40 acr of creech land, and lity.				
NotTH i NilAM,	7.W ** teres of wh oiig land, 250 of red land, very good turnip land, 500 of a strong				
ОАКНАМ,	1294 acres of vory good <i>day</i> , T icd loam, v and loam.				
PICK WORTH,	00 acres of poor stony land, ad, of poor qua- lity, and 350 in Woods.				
PILTON>	11 of good clay, 112 of sand, and 111 of limestone.				
PRESTON,	seres of r^d soil, 'J66 01				
RIDLINGTO	10 Eiuni, 1014 of poorc!				
RVAL,	800 acres of strong clay, 2000 of creech land, rat!				
SEATON,	5 acres of red land,] wbiie				

	SOIL.	15
	wliUu clay, 4SG of st intermixed with j	rong clay
South LUFFENHAM.	GSO acres of creech c- quality 70 of poor c	f a poor l a
STRETTON,	1000 acres of strong c acres of wood laml nut'acc	y, 1000 of a ci'ld
Trice,	978 acres of good i good LiI	aci es of
TRISTIETON,	G(X) an ech l	a lintid.
Тновре,	580 acres of strong clay oi red land.	, 20 acres
TICKENCOTE,	100 a ra [!] I stony i!) of tale- 1, 500 of
Tiswill,	Id cla poor BI landj 41 lngthorpe, a htimle parish^ aoil uua«'	y, 908 1 i 1 to ihis •! for.
TINOVE	fred ro≺ tiandcl	ech land, fixture of ably g>otL
UPPINOR;	if n-tl land	l, 150 of
WARDLEY.	246 acres of good g clay, 247 of cold 1 160 acres in wor)d.	ravel r dack cluy,
WING,	6- good n ^j d of	bun 1, 171 71
WITTENDINE,	2400 acres of strong genes of red hud,	clay, 600

WITWLLL,

16

151 acres of strong land, rathapoor, 454 of creech land.

In the foregoiug account is given the number of ai r,f the different soils in each parish throughout the county, as near as could be computed from the best iuformation which [couM obtain; together with >u h terms or names for each kind of soil, as arc usually given thetrr by the inhabitants; and although (he terms or names seem many, yet, I am clearly of opinion, there are as many sorts of soil. For example, at Bui ley, in Lord Wiuchelsea's park, there is what is termed red land, (by some keal or kale) of good quality, and of a very dry convertible nature for either gras*, turnips, corn or seed,¹*: extending some distance, lower down on the north-west side of Barley, there is a sort of white, or rather blue clay soil, for though turned white clay, yet it is the understratum which consists of this soil, the surface being what I call hazel, or cankered enrth; this land is bad in quality, and, being very wet, wants draining much; it is now in grass, and \ he called breeding land, or suitable for store-stock. On another part is some very good meadow aod pasture land, with a blue clay understratum, producing plentiful crops. On the south and south-east sides of Burley there is some very good fattening land, of a rich clay, with an understratum of strong blue clay; on the south-west some 1 land, being a mixture of good clay and keal, and as good breeding land as mi) in England.

TIJC soil of this country w, generally speaking, fertile, taryii; have shewn above, very much ; the east.ai south-east parts through **which** the great north road r being in general of a shallow staple, upon limestone nb a small mixture of cold woodland, clay soil. The other parts of the county are composed of a strong loam,

2

red

ird land intermixed with keal; (iron-stone is found amongst it.) This soil is esteemed most congenial for convertible tillage crops; the understratum of the whole county, at different depths, is generally a very strong blue clay. The circumstance of this county varying so much in its soil such small distances, can ~h sort to be much more valuable than it would b it of < id through the whole of a lordship. 1 being a proportion of each sort on the different forms, so as to have convertible him lands for tillage; low lands for grass, (which would in many parts he much improved by being dri ploughed up, and converted into grass again, and attended with great profit) having the advantage of being proper for breeding and store Loch; thus producing every thing useful within themselves. The tillage land, growing turnips for the store and fattening sheep, barley*, clover, wheat) ami ^rass-seeds plentifully; the low lauds, drained, &c. would produce cole-seed, oats, &c. and when converted into grass again, would bring good grass-seeds; by such in **lent** would ter for the stables, and straw in the winter for the store cattle, and much dung be raised for the uses of the farm, whilst Cattle and slicep would be rais; the fattening land. From these observations il wiU 1 that lordships, composed of these different soils and of the most valuable nature. The abundant crops of gruss produced on the fceal land, give an opportunity of stocking the low lands more lightly, at a season when some of the low or wet lands may be liable to rot sheep. I know of no more certain prevention to the rot than light or easy stocking, and having plenty of grays; at all events, this low land

This county produces barley of *very* superior quality, so that t **inhabitants** cull it *Corn*, wiling other grain by its name, jiucli **c**-at; oats, *Sec*

RUTLAND.]

C

«»

MINERALS.

18

may "be stocked with suet sheep as are intended to be fatted The thin of ;< good conand sold off. ibhi nature for crops of tur y, clover, wheat, itiU, - < r though this kind of is not well off i is abundantly compensated, an lite greater part of it will grow remarkably fine sainfoin; and no natural hay crop is so valuable as this, as by its b trly hai and its continual burthen from growing so early, it is but seldom that the crop is affected by dry summers; ami the eddish is of a sound dry nature for abeep or any other slock. The face of the couutry is, generally speaking, very beautiful, especially where it is well timbered., being much diversified by small and gently vising hills, running east and west, with vail its of about half a mile in width intervening; so that in travelling through the country there are fresh views at the distance of every three or four miles, causing its appearance to be very lively.

SBCT V.—MINERALS*

THEUE is nothing worthy of remark in this county under tins bead, except that at kit ton there is a kind of stone very proper mid fscnoi • uildijigs. There is also in many parts lime, consisting of a soft and hard species; various opiuioiis are eu of the liuie made from these two sorts, but iu general that made from the hard awne Is preferri

SECT.

SECT. VI.—WATER.

THIS county is, generally speaking, well watered; the rivers Eve and Welland are its south-west and south-east boundaries; its two principal rivers- are the Guash and Chater, with a great number of rivulets, and numberless The parish of Ayston is watered by springs and springs. ponds; Ashwell by p^nds and springs; Barleythorpe by ponds; Barrowden, Belton, Bishbrooke, Braunston, and Bridge Casterton, by springs, and through the latter the river Guash takes its course; Brooke is watered by ponds; Burley by springs; Caldecot chiefly from ponds, though the river Eye runs through the parish, atfil the Welland bounds it; Clip sham chiefly ponds, and sopfe re/v springs; Cottesmore very good springs; Dry Stoke^springs; Edith* weston has two-t'nirds watered from springs/tjie remainder from ponds; Egleton by springs; Esserufiae. is watered by springs' in the town, but has no water on the heath; JS.cvon well watered by springs; Flitteris by bonds; Greetham by springs in the town, but has no water oh the heath; Hambleton by springs, ponds, and rivers; K&toir 'by springs; Langhatn by springs and ponds; Little Caaterton generally watered by pumps from ponds; Lyddington, Lyndeu, Man ton, and Market. Overtoil, by springs and ponds; Martinsthorpe by ponds; Morcot Py springs^ Normanton by springs and the river Guash; North Luffenham, otic half the parish well watered from springs, the other half badly supplied; Oakham watered by springs and small rivulets; Pickwofth by ponds; Pilton by springs; Preston by springs and ponds; Ridlington by springs; Ryall by springs and ponds; Seaton by springs; South JLuffenham by springs and the river Chater; Stretton by

ponds;

WATER.

pondi; Teigh by springs; Tickencote by springs in its valley, but is very badly watered on the heath; Thistleton by springs and ponds, except the heath, which is ill supplied ; Thorpe by ponds and a rivulet; Tin well by ponds; Texover by springs; Uppingham well watered by springs; Wardley and Wing by springs; Wissendiiie chiefly by ponds; Witwell and Barrow by very good springs; Leafields by springs and ponds; Gunthorpe by springs.

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CHAP. II.

STATE OF PROPERTY.

SECT. I.—ESTATES AND THEIR MANAGEMENT.

AYSTON, George Fledger, Esq. Ashwell, Lord Downs, William Walcot, Esq.' Mr. Gardiner, and others. Barley thorpe, Earl Winchelsea, Capt. Busby, and the Dean and Qiapter of Westminster. Barrow, Col. Noel and other small proprietors. Barrowden, Marquis of Exeter, Air. Tryon, and other smaller proprietors. Belton, Karl Winchelsea, F. Cheselden, Esq. William Kemp, Bishbrooke, Sir Gilbert Heathcote and a_v and others. the Duke of Rutland. Bridge Casterton, Marquis of Braunston, Col. Noel, Dean and Chapter of Exeter. Lincoln, James Fepstaff, William Robinson and Back, Brooke, Col.'Noel. Burley, Earl Winchelsea. Esgrs. Caldecot, Marquis of Exeter, Lord Sondes, and Robert Walker, Esq. Clipsham, Rev. — Snow, John Hack, Esq. and other small proprietors. Cottesmore, Col. Noel, the \ctor, and other small proprietors, on about 400 acres, *I)ry* Stoke, the Marquis of Exeter and Rev. — Shields, Edithweston, Robert Tomlin, Esq. Waldcn **I**cctor. Orme, Esq. and Rev. — Lucas. Egleton, Earl Winchelsea, Rev. — Williams, and others. **Empingham, Sir Gilbert** Heathcote. Essendine, Marquis of Salisbury. ipxtQii, ⁷ S. Noel and one or two small proprietors, Flitteris,

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22 ESTATES AND THEIR MANAGEMENT.

Col. Noel and Miss Ash by. Glaystone, Lord Harborough, Mrs. Tryon, Hon. — Watson, John Stranger, Esq« and other spiall, proprietors. Gnnthorpe, Sir G. Heathcote and Mrs. Ashby. Greetham, Earl of Winchelsea, Sir G. Heathcote, Francis Cambeiley, Esq. Rev. D. Jones, Vicar, and other small proprietors. Hamhleton. Earl Winchelsea, Sir G. Heathcote, Robert Tomlin, Esq. Messrs. Howick, Gardiner, and Barker. Ketton, Lord Northwich, Lady Jane Edwards, and others, Langham, Col. Noel, Sir G. Heathcote, William Sherrard, Esq. and Mr. Sharp. Leafields, Earl Winchelsea, Sir G. Heathcote, and others. Little Casterton, Lord Pomfret. Lvd* dington, Marquis of Exeter, Thomas Bryan, Esq. Robert Walker, Esq. and others. Lyndcn, Thomas Barker, Esq. the Dean and Chapter of Lincoln, 220 arres, and the rector, 14 acres. Manton, Col. Noel, F. and N. Cheselden, Esq. Mr. Gregg, Mr. Scaton, and others. Market Overton, — Wingfield, Esq. the Rev.—'Hopkins, Mr. Scott, and Henry Hopkins, Esq. and some small proprietors, Martins*horpe, Lord G. H. Cavendish. Morcot, Si*€>, HeatliGote, Bart. N. Tryon, Esq. and others. Normaiit >' Sir G. Heathcote. North Luffenham, Sir G. Heathcote, Sir John. Smith, Thomas Barker, Esq. and others. Oakhani, Earl Wiuchelsea, Col. Noel, and several' small proprietors. Pickvvorth, Marquis of Exeter. Pilton, Sir G. Heathcote, W. Shields, Esq. and Rev. G. Batcman. Preston, the Rev. H. Shields, Serjeant Hill, Messrs. Lawrence and Parker, and William Belgrave, Esq. with a few Ridlington, Col. Noel, Sir G. Heathsmall proprietors. cote, Mr. l,ightfoot, F. Cheselden, Esq. and others. Ryall, Marquis of Exeter, Mr. Bellairs, Mr. Pierpoint, and others. Seaton, Hon. John Monckton, Sir .G. Heathcote, and others. South Luffenham, Sir G. Heathcote, Thomas Barker, Esq, Thomas Hotchkin, Esq. and others. Stretton,

TENURES.

Stretton, Sir G. Heathcote and other small proprietors. Teigh, Earl of Harborough. Tickencote, John Wingfield, Esq. Thistleton, George Pledger, Esq. and some småll freeholders. Thorpe, General Morgan, Mr. Bainis, William Readier, Esq. and some small proprietors. Tinwell, Marquis of Exeter, and three freeholders. Tixover, Henry O'Brien, Esq. Mr. Tryon, and others. Upping-Ham, Col. Noel, W. Belgrave, Esq. C. B. Adderley, Esq. Rev.—Jones, Rector, Mr. James Hill, and othtr small Wardley, George Pledger, Esq. proprietors. Wing, Marquis of Exeter, William Gilson and Robert Shields, Esqrs. Mr. Gregory, the ltev. B. S. Turner, and others. Wissendine, Earl of Harborough and forty Freeholders. Witwell, Col. Noel and the Rev. ——IIJUT is.

SKCT. II.—TENURES.

THESE consist of freehold, leasehold, and copyhold; b<it are chiefly freehold, as will appear by the following accurate account:

Ayston and Ashwell, freehold. **Barleythorpe**, small part freehold, remainder copyhold. Barrow, freehold. Barrowden, part freehold, and part copyhold. Beltou, Bridge Casterton, Brooke, and Burleigh, freeholds. Bishbrooke, part freehold, and part copyhold. Braunstop. part freehold, and part copyhold. Caldecot, chief part copyhold, but fiiie certain, and very low; remainder freehold. Clipsham, Coltesmore, Dry Stoke, Edithweston, Egleton, Ernpingham, Essendine, Exton, Flitteris, Glay-8ton, Gunthorpe, Greetham, and Hambleton, all freeholds. Ketton, chiefly freehold, remainder cop} hold. Langham and Little Casterton, freeholds, Lyddington, part free, and part copyhold; fine certain. Lynden, freehold. Man-

TENURES.

.ton, mostly freehold, remainder copyhold. Market Overtoil and Martinstliorpe, freeholds. Morcot, part freehold, and part copyhold. Normanton and North LufTenham, Leafields, freehold. Oakharn, freehold, leasefreeholds. hold, and copyhold. Pick worth and Pilton, freeholds. Preston, greater part copyhold, but fine certain; remain-Itidliugton, freehold, Ryall, greater part der freehold. copyhold, remainder freehold. Sea ton, South Luffenham, Stretton, Teigh, Tickencpte, and Thistleton, freeholds. Thorpe, two_rthirds free, one-third copyhold. **Tinwtll and** Tixover, freeholds. Uppingham, freehold and copyhold; the rector the lord of the manor. Wardley, ^Y'ssenc^ine, and Witwell, freeholds. \V*nSi P^tly freehold and copyhold.

CHAP.

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CHÀP. III.

SECT. 1.—HOUSES OF PROPRIETORS.

THE following is an account of those in this county:

Ayston, George Fledger, Esq. Ashwell, the rectory. Bel ton, Earl of WincheLsea and the rectory. Burley, the noble mansion of Earl Winchelsea, commanding a most beautiful and widely extensive prospect; and the vicarage. Clipsham, Rev. — Snow and John Hack, Esq. Cottesmore, Edithweston, Robert Tomlin, Esq. Walden Col. Noel. Orme, Esq. and Rev. Richard Lucas. Empingham, Sir Giloert Heathcote. Bart. Exton, Col. Noel. **Glay-**Atone, Hon. George Watson. Greetham, William Gillsou, Esq. Hambleton, Capt. Gardiner. Ketton, Lord Northwich. Little Casterton, Tollthorpe-house and the rectory. Lynden, Thomas Barker, Esq. Samuel Barker, Esq. and the Rev. William Bai ker. Morcot, N. Tryon, Esq. Nor-North Luflfenham, Sir G. manton, jSir G. Heathcote. Heathcote. Oakham, Col. Noel. Pilton, Rev. G. Bateman. Preston, Rev. — Shields and William Belgrave, Esq. Ryall,——Pierpoint, llidlington, F. Cheselden, Esq. Esq. South Luffenham, Thomas Hotchkin, Esq. Strctton, Sir G. Heathcote, Bart. Teigh, the rectory. Tickencotc, John Wingfield, Esq. Tixover, H. O'Brien, Esq. Uppingham, Adderley, Esq.

SECT.

SUCT. II, TARM-HOUSES, &.C.

Pariples	Trivia	Ductin	Complete	Repairs, and by whom date.
Ashwell	10		20	Teiant.
Ay.ton	5	-		Ditto
Barley thorpe	y	-	-6	Ditto
Barrow -	D.	-	14	Lamilord and Tenant equally.
Barowden	b	30	10	Tenser.
ton	10	40	10	Vn
Biinbrooks	0	55		LandlOrf and Tenant jointly.
JBridge •	2	4-7	IK	Landlor
Braunston	12		10	Ditto and Tenant jointly.
Brooks —		1	2	Lennin.
Burlt-y	1	2	1	l lord.
CaldeeqI .	100	30	1	Din i and Tanant is inthe
Cubennu	1	22.0	20	tama hy Landlarda ^{an()}
CoUesmure——	12	30	24	<i>I</i> others, by Tenai
Dry Stoke	3	6	3	l'enant.
KdtLhweuton	7	-50	1	Landbird.
Egltrton	3	4	20	aiul Ten tint jojuily.
I'm Iinghun I	50	- 30	H	tllord.
Essendure	0	10	1	ul.
Jastri	INK	34	31	rd and renant joint!}
C lass atom a	1	20		Tundalord.
G lay stone		20	100	ilard and Tanant
Greenmin	1 8		23	
Elain Hlatmi	1 10	581	20	Duto
Kett'n	1 10	50	J	imant
tm	1 00	0.0	1	I lynd and Tenant
Leaffelds	1 49	1	1	ud lord
Little Castertan	5	5	100	llord and Tenant
dilington	1.345	150	12	nord and Tenant,
Lv	A		1	Landlord.
Manua	114	24	1	Tepant.
Market Overton	8	54	1	Landlord and Tenaut.
Martinsthorne .	-	A Carlot	2 30	Il andlord.
Morcot	7	60	-	3 l'enant.
Carvied forward	309	810	134	a train has been made
				Brough

FARM-HOUSES, &C.

Parahes	Canal Topper 4	Disching Branch	Cottone.	Repairs, and by whom done.
Brought forward	303	\$70	450	
Teoringungon -	1	1000	100	nalora.
North Latienham	8	60	2	, La nJ lord, others
Oukham	16	260	14	Landlord.
Vu kwo.th	3	15	1	Tonant.
Pilton	4	5	1	Ditto, ditto.
Pres.		30	5	i formation.
Ridlington	5	\$0	7	'tenant.
Rynil	12	30	178	Ditto.
Seaton	8	.20	Sp	DiUo.
South Lutlenham -	6	25	1	indlord.
Stretton	12	5	19	Ditto.
Teigh	6	4	12	Centra its.
Theken •ote	-5	14		mdlord and Tenant.
Thistleton	6	4	- 2	rita.
Lhorpe	5	10	1 2	Ditro.
Tin well	8	50		Landiord.
Tixover	2	0	12	Tenant.
Uppingham	0	130	05	lord.
Wardley	0	1	1 3	i antl Tenant.
Willg	1	-39	1 2	London Tannet
Win	23	44	100	The service of the second seco
WitweH	3	-	1 al	5 1 Chanti
Total	tv	1536	57	

The farm-houses arc, generally speaking, good, but u conveniently situated, being mostly in towns; whereas they ought to be erected on the farms, which would make them much more valuable b'oth.to landlord and tenant. The offices are seldom well constructed; there are " of them, and i connected. The rent of cottages varies v ch; in some towns in the county, a comfortable house with a good g t lA per annum; these are hired of gentlemen; but in some towns where the at second-

27.
FARM-HOUSES, &C.

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them, and frequently as much as g/. given for a bad house without any garden. The comforts derived from a garden qre so many, that 1 think tt very proper that every coti should have one: the p ould thus be enabled to keep u pig", and from t iety of vsgetables and roots which he could by this 'ill up the deficiency of a too often scanty portion of meat. I have in general, however, found tht; farmers well disposed towards the poor i and were they more generally to allow their labourers to plant with potatoc of such fields where the plough cannot 1 J, it would be attended with very beneficial consequent-L-\$_, and the produce be of very g; port to them in the winter.

I have subjoined three plans of cottages, which were given to me by Mr. II. Wilson, d to Earl Wmchelsi by which it will be seen that stone *is* tin iiaJ for building with in tins com id the estending them ft⁻¹, and 60/. to IGO/. exclusive of carriage.

C1IAP.





Plan 3. Cottage House for Sabourer. P.vő 1.1 22.10 rf-E 2.6 66 unta Litchen I Der Charmberry b.Baner f/fit " Ludder in lies of Mains it leptowert

CHAP. IV.

OCCUPATION.

ECT. I.—s; [IMS.

ASHWELL from 15 acres to 240; A 'fo21Q; Barleythorpe () and () and () pe one farm, 400 acres; Barrowden GO acres to 100 and 100; elton from G2, 70, 76, 90, ami] 12acr ibrooke £6 to 30, 50. In -titl iOO acres; Bridge Casterton 40 acres, 19iJ, 200, 37 on GQ, 100 and 200 acres; Brooke 60 acr (a) and ;W7; Barley 140, 320, ,400, 421; and Earl Winchelsea 640; C-dldecot from 60 acres to 100, 1£5 and 193 acres; Clipsham £7 acres to 70 and GoO; Cottesmore 100 acres to 130 aod 200; Dry Stoke SO acres to GfiO and ^00; Edithvveston i'rom 50 acres to 6O₃ 140, 200 and the second second second irom 131, 135, 140, 155 to m G farms of 20 acres; 10 farms from 100 to 1. irms from SOo acres to 250; 26 farm Essendine from SO, 120, 200 I acres; E to to 25, SO, SO, and Glaystone «f 70 acres; 3 others of 40, 00_t and 120 acre?; G 30 to 300, S«0, and 700 acre acres, 50 80 to 170; Hamble $^{(11)}$ 180 acres; Ketton from 70 acres to 250 and 300 »cre_s; Langham from 20 acres to 50, 100 and 300 acres; Leaficlds

SIZE OF FARMS.

Leuiields from 5C acres to 150, 170 and 486 acres; Little Casterton 40 aci es, 160 and 350 acres. Lyddmgton from 20 acres to WO, 150, ami 300 acres; Lynden from 3'2 acres to 84 and :rc»; Manton to 100 and 200; Markt:) acres e 128 acri i.'), and small plots let to c union; Morcot from 50 w manton 400 acres in Sir Gilbert Heathcoate'd park, 300 by different occupiers in Empm\$>ham; North Lufltnham from 60 acres to 100 and 200; Oakhatn from G4 acres, 110 to _____; PickwortU from 100 acres, 114, 250, 270, 500 00 acres; Pitton from 20 acres to 60, 80 and 140 tu ton from 20 acres to 50, 80, 200 a from 1'2, 80 to 100 acres; Kyalt 60, ISO, 200 to 360; Sentori 70 acres to 200; South Luffenhain 70 acres to 200; Slretton 50 to 200; Teigh ¹20> farm 70 acres, 3 of 100 : i res, 1 of 200 arrai, 1 of 200 icres, and 1 of 480 acres; Tf list If ton from V: acres; Thorpr 10, 90, 100 to 140 acres; Tinwell from acres I and £08 acr Tis over 2 farms of 250 acres each ; Uppingham from 140 acres, 50, 80, 00 to 20 acres, 10 acres to 35". from 6 acres to 40, 136 lid 180 40, 40 and C tog acres; VVissendh 100 i (X> acres; Witwell from CO;

By less. I farms are by no : grc i or four li are a gi nail fai Q farm .d.

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SECT, III.—71ENT9-

kstw«U. Aystun Barley th Bnr: Ea.TOwdea		Marton	£. s. d.
kstw«U Aystun Barley th Bnr: Ea.TOwdea	I 6 (_1 0) _1 2 (_1 2)	Manton	10 0
Aystun Barley th Bnr: Ea.TOwdea	_1 2 -1 2 -1 2	TtOII	1 15 15
Barley th—— Bnr:——— Ea.TOwdea———-	-1 2	1 DINPENDED / DOD	
Bnr:	-1 21	in town of the set	-170
Ea.TOwdea——		Morcot	. D 10 0
Dalahan	0	Normanton	- 1 4 0
Detton	.1 30	Nortti LuScnban	- 0 1
Bishbrooka	1 21	Oakham	0 1,
Briti ;on—	0	Pickworth	- 0 10 0
Braunston	1 21	FilleDanan.	0 15 0
Brooke	-1 6	Prestun	1 20
Burley	1 51	Redungton-	-1 3 0
Califeco!	1 10 0	Ryall	1 0 0
Clipsham	0 17	Senton	- 0 10 G
Cotto move	1.9.	1] South Laurenham.	0 I
Dry Sinlce	1 9	Stretton	0 18 O
Editlr. estop	0.19	Teigh	8 0
E'spingham	0 12	1 Tickencole.	
Essendine	0 15	Tanticion	S 0
Extop	1 1 1	Tito pe	. 0 10 0
Flittori^	1 1	Tinwell	0 0
Glayston ,	1 0	Tixover	. 0 18 0
Greethnm	21 0	Uppingbam	2 0 0,
Gunthorpe	1 0	Wa:	1 5 0
Hambleton	1 41	Wing and	1 5 0
Kelton	1 9	Wissending	1 2 a
Langham	1 0	Witwell	- 1 1,0
Leanald	1 5		(F .1**
Little Casterlgn	1 0	The averagi:	st thia
Lyddington	1 9	dounty i« about 24	eracre.
Lynden assassas	1 3	all and a state of the state of	

SECT.

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EF.CT. IV.—TITHE.

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A tithable 3s. in the pound, Ayston, HI Barrowden lithablu. Barleythorpe, Barr bishbrooke, Bridge Casterton, Braunston ami Brooke, are all tithe free. Bur!- Calderot and! Cotteamore tithe free. Clipaham tithal (3d. per acre \$ Dry Stoke tilhable 4s. Gd. per acre; Editbweston a modn.% Eglcton, Empingham and Exton tithe free. Essimdine lithe inkiml. Flittoris tithable Is. 6d.per acre. mhable \$s. per acre. Greetham amodus. Guntborpe tit' able Is. 6d, per acre. Humble ton tithable, paying 1001. per year. Ketton tithe free, tarigham pays small tithes to the vicar. Leafield, Little Casterton and Lyddiogton, aru tithe free. Lynden lithable Is. 6df jur wee. JMantou and Market Overtoil titlie free. Martiostliorpe tithable, juning 701. per annum. Morcol tithable 5s. 6d. per acre. Hormanton tithe free. North Luffenham tithable per acri ikham tithable, groat tit per acre, besides a small vicarial tithe. Pickworth and Preston til free. Pilton tithable 4s. (3d. per acre. Ri i, purt paying till I part uoi K >eatmi titlntble 3s. 3d. per acre, Station and South Leuham titliuble 5?. per acre each. acre, and another part pay;. able, paying 1001. p. 6d. per acre. Thorpe tith ,d. Tinwell tithefi :\over tithable 3s. 6d. per acre, ingham tithe free. War:¹ titliable 3s. 9<i. per acre. Wing and Wissendiufi tilhe fre

It may be of I, that the greater part of the parish are < ted from titlv r being ma free. This desirable object illended to in all the recent enclosures, and antages in every respect have beeu the happy consequence to both the clergy and the laymen.

SECT. V.—POOR BATES

AT Ash well the poor rate is Is. 3(1. in the pound. Ay ston Is, Barley (liorpe mid BaJrowden 4s. (id. Barrow Qs. Biihbrooke 5s. Bridge Casterton 3s. Brauiwtcu de le de on three-fourths of the rent. Bi. Hurley Is, (Mt'cot 2s. 6d. Ctipsham Is. 10d. Cottesmore 2s. Dry Stoke Is. being levied on three-fourths of ihe rent. Edithweston Gd. Egleton is. being levied on four-fifthfof the r> Empinyhain and Ex ton . . Essendine litter is Glayaton 4s. Greethain .3s. being levied on i 5s. iirds of the rent. Guntriorpe pays 51. per year to the >oors rate at Oakham. Hambleton Is. Gd. in the pound, Ketton 4s. Laugham 2s. Leafields 1d.perai >akbam poor'^ rate Little Casterton Is. ier pound. Idington Ss. Lynden Is. Cd. Maul ;ket Overton 2s. Mai tinsthorpe no' poor's rate. Mor Normanton Is. 2d. Xorth Lufi. per pound. Oakham 5*. Piekworth 2s. PilJ 6d- Preston-58. being I was a first of the rent. Ridliu Is. 8d. I vall Sa. Seaton 5a, being levied on threefourths of the rent. South Lauffenham 3s. Stretton.£s. Is- Tickencote tori Is. 0.!. Thorpe 2a. Trawell Sa. Tecover 2a. Uppingham 4s. Wardley 1s. Wing 2s. 6d. Wissendine Ss. Witwell 1s.

The powl I am of op;,this circureat many cottager*bein md^{A} j_{as}t sufficient to ea-ah!o themabout preventinglabourlabourto m does not prevail iu ail tlere *l does,loe good effects of itihe cottagers themselvesGOTLANDDm

LEASESV

in the highest degree, and by the proprietors and occupiers? of laud io the industry and good order kept by them ; and lastly, by the consequent redaction of the poors' rate*. The average of the poor's rate through the county, is to shillings and seven pence per pound.

SECT. VI.—LEASES.

AT Caldecot, one farm is leased for 13 years. At Clipsham, one farm for 14 years. At Exton, two small farms are leased. Greetham, two farms let on lease. One farm let at Little Casterton for 21 years. The vicarage farm at Lyddington is let on a lease for 21 years, and the prebendal farm for 7 years. Manton; here are two leases granted by the Dean and Ciiapter of Lincoln to Colonel Noel, term unknown. One farm let on lease for 21 years at Ryall; and on one farm at Tin well, for the like duration. The rectory farm at Uppingham is let on lease for 21 years. At Wardley, one farm let on lease.

The greatest part of the land, it will therefore appear, is let to tenants from year to year. This may be accounted for by die smallness of the farms in general throughout the ?ounty_f as remarked in a preceding section, as on a small farm a lease is by no means so necessary as on a large one, for many reasons, which the reader Mill liud explained at length in the third edition of The Experienced Farmer, vol. II. part 3, page 28St. The covenants betwixt landlord and tenant are generally the same as have existed a long time back.

and the second second	The Contraction of the		cn
Oat Aara Sumpiar Fallow	1. i. d.	La 1, de	1
lotighinp i <ice, 10a.="" 6ci.="" at="" each="" time<br="">:rc, 101< is, * t10B.6d.per. sjnwit</ice,>	e 1 1 0 , 5 5 0 I 5 0 .) 4 0		* **< *^
One Acre Wheat.	and the flat	Contraction of the second s	
p, to covtr the seed be!s, aX 10s. per 7 15 '24 bushels , at 3\6 r . Knt astfl AsMSiitBent	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Base basbels of Wheat, at J 0 : ¹ iav.	la 15 10 0 11
One Acre Hew,	TON THE R. W.	A STREET STREET STREET	X
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tre Coultras Produce,	and the second second	of Beams, at do, Mr. por	d Barloy, at St. per	U <i>u</i> <i>a</i> ,	f Wheet, at 30% per	A DA HANNE	A divert
		fiy th hushels o	Ry 26 burbaia 6 Essevi	Hy 3 times of CB	Try 20 hundrels o	- Carlor	
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Dr. Expenses on a Jares of Land for one the provest	Day Ang home	9. Manufes, 10 Jonde, al Mas, per	O plotter the start harrowing a second second harrowing the start harrowing a second s	Namme, a briefle, at lost per a survey at the second star way and harvey at the second star way at the second star second	b) prompting and invitedue a second of the second secon	Etypenses an	

EXPENSES AND PROFIT.

It appears from the abpye calculations, that by the prcmt system or method, the profit is but 11.) i; whilst by the fstem, £1. IBs. 5d; is produ per acre, Tl ;; and expi f'the fallow year ou the old method, returning once in every three years, is the reason of the low measure profit thereby. The new system is debited Is. OM per load n manure ihi old, which is more than a''full compel post mixing. In the quantity of manure, I have allow ten load - per acre on the old system» from t!; two crops, which is more by two than they won hi pn duce which under the oil or system; many more loads of name would be superior that is reached (1 upon, for all and the loads of ft crop, which it is fair to allow oil) taken for the same quantity us on the old, when there the bulk would be niucti increated, there we tuld be twenty lo: do of straw-dung to must up for compost with earth ; which reasoning on the strength of i. is in Ireland, (see English 1 of Acticulture, page QII) by iteing mixed up for co toposti would produce in • v loads, and I wily take credit for s loads. Only four bu shels of beans per acre are allowed increase under the unthe application of the maisure, it would probably be eight bushe !«: and on the wheat-crop four bushels are also only alfov, ed as increase, which by reason of the manuring every other year, would very likely he more. Linne is not charges on in, the oitc having as much occasion i for it the other, and on account of its not he ing a general prac-Bj the pinctuce of making of compost, instead, of lice. robbing the meadorys for the ten loads of manure now raised under the old method, there would be the most amply for all the putj if tillage, meatkny, and musture; and instead of the farm being on the decline ia iUty, it would be kept gradually improving. Though a

very great advantage, it appears by the above calculation, is obtained over tjie old system, by the system here laid down;, yet still greater would accrue from the adoption of the following, which J Have tried, and found to answer; but being so foreign, to the general practice, I sjiall give it only for the reader's opinion and judgment; >** by taking • into the account the black eye or pearl pea drilled and manured, as explained in The Experienced Farmer, edit. 3. vol. 1. pages 325 to 836, that crop being off in jFuly, if {be land has got any couch-roofs in it, there is time for the necessary process of making a clean fallow for barleyl an4 clover; or should there not, it may be sown with rape for spring feed, and then with barley and clover, then wheat, then manured for beans, and then a crop of. oats, or other grain, which may be thought more advisable, according to time*. The reason principally for the process, is to have the clover crop only once iq six years, instead of four; a? by taking a clover crop too frequently, it is proved not to yield so well. By this six years process, a change of grain may be made every year, and fewer clover crops; for although clover is a very useful crop, yet it does not bring in profit equal to corn crops. I have dwelt thus long upon this head, thinking that the management in this county ou the clay soils, is more deficient than any other, being the best land, and producing the least profit. It may be observed, under the head Seed, Produce, Sic. which I have classed iu CHAJP. VJI. SECT. IV. that where summer fallows are in practice, the produce is not larger than it is on inferior lands, under the clover lea system; the natural conclusion is, that the fallow year is a dead loss of both dur.g and profit, the more crops land produces, (he more dtir[^].; thai summer fallowing impoverishes the soil by exhalation; that the length of time taken up by that process is unnecessary; and lastly, that it has not always been the destruction of Weeds, but in some instances, especially where laml is light, an encouragement to their growth.

CHAP. V.

39

IMPLEMENTS.

THERE are no implements of husbandry peculiar *to* this county; the Leicester single wheel and double furrow ploughs have been introduced, and being much better implements than the long-beamed swing ploughs, will, in process of time, banish them from the field. Harrows are, generally speaking, much too light and small; the rollers are also, in general, much too light, and none fit for grass laud.

CKAI\ VI.

KNCLOSJNG.

THE advantages attending enclosures are of such inestimable value, viewed in whatever light we may, whether as to the exoneration from tithe, the lowering of the poor rates, or lastly, but not least, in the growth of timber, that ' Lcanuot but express my sorrow, that an act of parliament for that desirable purpose is so very expensive; and it is much to be lamented, that the exertions of the present worthy President and the Hon. Board of Agriculture, have not been crowned with that success so much merited; in endeavouring to do away this, in many cases, almost insurmountable impediment to improvement. There* arc two parishes in this county where enclosures would be of the most material advantage, and much desired. South Luffenham and.Oak[^]am, the latter being a'market town., having the benefit of a navigation, and the most improvable lordship 1 ever viewed, the land being not only superior to any parish in the county, but. perhaps to any in the 'kingdom, and would certainly double its present rental, having not only some of the best tillage land, but some as fine fattening land as shall he found in any district.

CHAP VIL

TILLAGE.

SHOT. I.-PLOUGHING.

ELL ith two horses abreast; double plough four horses. Barleytborpe, ihree or four L driver. Barrowden, ilir^e 01 houses. '. does four horses and a devery bibliopher three horses single, and a driver. Bridge Casterton, two horses double; and four here and Q, with three or four horses, arid a driver, Brooke, thre our horses. hurley, two or four horses double, the losses single, and a driver. CuUlecot, three horses single, am drive)¹, Clipstiarri, three horses, and ur ho: Cottesinore, from four to sis horses. abi. id three singh * drivu .ton, three four horses, and a driver, Empiugham, two double, or three single hones, and a driver. Bssendme, two holies double, rive single, and a driver. Exton three or t horses. Glayaton, wo itlj three horses. Oreetham, four fa > u double fu, b. Ham* bleton, three horses and ;i driver, l\etton_f two horses abreast, and three single. Laughiim, two fa double* :md three or four and a least and a driver. little Contenton, two double, four single, and a driver. Lyddiitgtuu, thrt-e or four horses, aiid a tliivrr.

PLOUGHING.

49

ij three horses. Mauton, threejand sometime* four liorses single* and a driver. Market Overton, two horses double, three or four single, and a driver. Alorcot, three or four liorses, and a driver. Normanton, two horses abrenst. North LirfTcuham, two horses abreast. three or four.suigle, Oakbamy four single, and a driver. **Ckworth*** three or four horses. Piltoii, four horses to a double furrowed plough. Preston, three horses single, and a d; Ridjington, two horses abreast, five to a double furrowed plough. 11\;»ll, two horses double, five single, and arrive south the set of the s ham, four or list horses .single, and a/lriver. Stretton, lireft boraea. Teigli, two horses abreast; for fallowing, four horses. Tiofcencote, two horses abreast, by John field, Esq. lers vary. Thistleton, two noi'i **abreast** a double furrow plough, three or lour horses it length. Thorpe, three or four horses. TinwcIJ, in seed time, two liorses ab at other times, tilrce or four, over, three *utr* horses. Wisseadina, two or three horses. Up ping! jam, fi\c horses are used in a double furrow plough. Wing, two horses abreast; and three or four single. Witweil, three or four horses. Gunihorpe, three horse?.

How to account for the very injudicious method of plonghing, which is **practised** iu this county, I should have been at a loss, or **for** what reason, from five, to six, seven, **and** eight id three men, could possibly be employed :Ljh, had 11 siessed what gave me reason *to* suppose it ori he time of the year the fallows are ma it in **the** county, ploughing, if it • in some **places the** earth all torn U] again as it ought to bt), and in other places ei the month of **July, to** the **greatest distress** of **the number** of hordes I have above*

FALLOWING.

44

Langham, 'fallow* for turnips, and some suminer fallow. ma<le for turnips. LittleCasterton, summer fallows made J.yddington and Lynden, fallow for turiops. on clay land. Mantoif, fallproper by part of i-Overtoil, fallow for •• irih X^{uffenliam,} and Oakharn, sum sary at these several parishes. Fallow is thought necessary at nth, on wdodlan uy land, for i JPilton, summer fallows njad but w render di use wore t; Preston, in tow Ridlington, fallowing for turning. Ityall, for turnips. summer fall<> South Latienham, summer fallows necessary. lived. Stretton, summer fA\< Lustletan, fallow for in Thorpe, summer fallows necessary. Thro el), sun mer fallows only necessity on the strong laud. Tysover, fallows for a turnii the strong soils. Uppingham,- summer fallows ut^v; where Wing, fallow for turnips. Wissendin'e, n soi in Unuips. Wit well, sum the following the second thorpe, fallows made for tumi]

Thi iitmcthntl king fait clay soils in tlutlandj setm to me u^* though purj to create tint;! ivcu U> ! wth of lime 1 County, I ol' tlic fartiiers ,plou fallow, time when most guEatton , mat ihi <id late at such £ecd tu ri[- tr futui

FALLOWING.

above-mentioned, and the destruction of the ploughs and harness, I could then oo longer be at a loss for a reason why such numbers were employed. Convinced as I am of the iimtility of the very procedure which they were about, and of the work being infinitely better accomplished with two horses and one man, (generally speaking) at a propex season, it may naturally be supposed what were my feeligs, without giting myself.the pain to state them here.

ARABLE LAND.

SECT. JI.—"FALLOWING.

well, summer fallows are deemed necessary iy lands. Ayston, fallow for turnips., and summer fallow on white land, and for rye. Barleythorpe, fallows for tur-Burrowden, fallow for turnips; and summer (allows nips. necessary in the open fields. Belton, summer fallows necessary. Bishbrooke, fallows for turnips. Bridge Casjtertou, summer fallows necessary." 'Braumton, summer fallows necessary. Brooke, the fallow system im a small degree for turnips. Burley, summer fallows unnecessary. Caldecot, summer fallows proper. Clipsham, sumrner fallows necessary. Cottesinore, summtr fallows thought necessary for wheat, but not much pursued the enclosure took'place. Edithweston, summer fa deemed unnecessary by Robert Tomlin, Esq. but practi! by several in this parish. Eglctou, fallowing lands for turnips necessary. -Erapinghani, f:t!!ow for turnips. Essendine and Extou, summer fallows necessary. distayston, aunimer fallows not deemed unnecessary. Greathan, falade for turnips, and trimmer fallows on bliil" soils-Jlanjbletop, summer fallows nccessai[^]. KettOB[^] fai!<

for

COURSE OV CHOPS.

nature of their ,ploti which 1 have mentionet mder the head Ploughing, the land is torn up in such tars lumps or clods, that it is utterly impossible for the si. steds t-j vegetate, but they are thus laid up as sale as though laid up in a granary for their future reproduce thus is tin >.vd, and imagines he bus made a i fullov. I it ai that time appears to" the eye, and although the weeds may not 1 i to grow merciter numbers in the wheat than > 10000, by i and the land a nlouffhed againsl- the winter season for win thai being at a time when weeds do not vegetate, and by the country of the spring months, the earth gets so ltarderi'd or ead, on those clay solls as to prove t their vege* tation during the wheat crop; but in the succeeding bean or-pea crop they grow in abundance, and the farmer is now all astonishment, saving, " he is sure he made a clean - fall, w, and whence then those weeds?" not considering that he himself had been so friendly to their preservation. The sceds of weeds are defended by so mony coats, that they will 1 and length of time in the soil, and of course regulate when the carth gets • :ito a state prop*r for that purpose.

SECT. III.—COUESE OF CCOj^J ^

Ash well,	The r-union of crops on red lam
	turnips, barley, clover, wheat on
	lay summer fitllov it, beif;
	or white clover, or small seeds foi
	pastun
Ayston,	Outs, tuining, luley, seeds* for four
	yeai
Bfcrleythorpe,	On the turnip laud turnips, barley,
· (= 1 - 1	clover,

tOUft\$E OF CHOPS.

 40 IOUFISE OF CHOPS. clover, wheat; on strong land siutimer fallow, wheat, keans. Barrowtfen, Turnips, barley, clover, wheat; oo clay summer fallow, wheat, beans. Belton, StatniuT ta'lolv, whu-jf Bishbrookc, Timiips^ barley, clovtr or \u00ed users. Bridge Casterton, Summer fallow, wheat, clover, jjcase, beans or oats for woodhmd; on' stony land turnips, barley, clover, two years; then pease, beans or oal. Braunston> Summer fallow, wheat or barley, pease and bc^iw, oata. Brooke^ Jurnips, barley or oats; on the strong land, summtr fallow, wheat, oats. Burley, Oats, pease or beany, barley, turnips, barley or oats, seeds for two years, turnips, barley or oats. Caldecot, Summer fallow wheat or barley, bean* or oats. Cottesmoi L, Oats, turnips, barley, seed3 for twe years Edithweston, On limestone laua turnips, barley, clover, wheat; on sandy clay turnips, barley or oats. Egl«to», On gravel or keal turnips, barley, clover, wheat; on clay summer fallow, wheat or beamis. 		
 clover, wheat; on strong land siutfmer fallow, wheat, keans. Barrowtfen, Turnips, barley, clover, wheat; oo clay summer fallow, wheat, beans. Belton, StntniuT ta'llo\v, wlu-jf Bishbrookc,. Timiips^ barley, clovtr or \ wheat. Bridge Casterton, Summer fallow, wheat, clover, jjcase, beans or oats for woodhmd; on' stony land turnips, barley, clover, two years; then pease, beans or oal. Braunston> Summer fallow, wheat or barley, pease and bc^iw, oata. Brooke^ Turnips, barley or oats; on the strong land, summtr fallow, wheat, oats. Burley, Oats, pease or beany, barley, turnips, barley or oats, seeds for two years, turnips, barley, or oats. Caldecot, Summer fallow wheat or barley, bean* or oats. Cottesmoi L, Oats, turnips, barley, seed3 for twe years Edithweston, On limestone laua turnips, barley, clover, wheat; on sandy clay turnips, barley or oats. Egl«to», On gravel or keal turnips, barley, clover, wheat; on clay summer fallow, wheat or barley, clover, wheat; on clay summer fallow, wheat or barley, clover, beans 	40 t	OUft\$E OF CHOPS.
 Barrowtfen, Turnips, barley, clover, wheat; oo clay summer fallow, wheat, beans. Belton, StntniuT ta'lo\v, whe_jf Bishbrooke, Timips^ barley, clovtr or \wheat. Bridge Casterton, Summer fallow, wheat, clover, jjcase, beans or oats for woodhmd; on' stony land turnips, barley, clover, two years; then pease, beans or oal. Braunston> Summer fallow, wheat or barley, pease and bc^iw, oata. Brooke^ Turnips, barley or oats; on the strong land, summtr fallow, wheat, oats. Burley, Oats, pease or beany, barley, turnips, barley or oats for two years, turnips, barley, skCIIS for four years. Seeds seldom mown. Caldecot, Summer fallow wheat or bailey, bean* or oats. Cottesmoi L, Oats, turnips, barley, seed3 for twe years Edithweston, On limestone laua turnips, barley, clover, wheat; on sandy clay turnips, barley or oats. Egl«to», On gravel or keal turnips, barley, clover, wheat; on clay summer fallow, wheat or barley, clover, wheat; on clay summer fallow, wheat or barley, clover, wheat; on clay summer fallow, wheat or barley, barley, clover, wheat; on sandy clay turnips, barley or oats. 		clover, wheat; on strong land siutf- mer fallow, wheat, keans.
 Belton, StntniuT t'a'llo\v, wlu-jf beam or near wheat. Bridge Casterton, Summer fallow, wheat, clover, jjcase, beans or oats for woodhmd; on' stony land turnips, barley, clover, two years; then pease, beans or oal. Braunston> Summer fallow, wheat or barley, pease and bc^iw, oata. Brooke^ Turnips, barley or oats; on the strong land, summtr fallow, wheat, oats. Burley, Oats, pease or beany, barley, turnips, barley or oats, seeds for two years, turnips, barley, or four years, oats for two years, seeds seldom mown. Caldecot, Summer fallow wheat or barley, then oats. Clipsham, Summer fallow wheat or barley, bean* or oats. Cottesmoi L, Oats, turnips, barley, seed3 for tw& years Edithweston, On limestone laua turnips, barley, clover, wheat; on sandy clay turnips, barley or oats. Egl«to», On gravel or keal turnips, barley, clover, wheat; on clay summer fallow, wheat or bemis. 	Barrowtfen,	Turnips, barley, clover, wheat; oo clay summer fallow, wheat., beans.
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 Bridge Casterton, Summer fallow, wheat, clover, jjcase, beans or oats for woodhmd; on' stony land turnips, barley, clover, two years; then pease, beans or oal Braunston> Summer fallow, wheat or barley, pease and bc^iw, oata. Brooke^ Turnips, barley or oats; on the strong land, summtr fallow, wheat, oats. Burley, Oats, pease or beany, barley, turnips, barley or oats, seeds for two, three, or four years, oats for two years, turnips, barley, SKCIIS for four years. Seeds seldom mown. Caldecot, Summer fallow wheat or barley, then oats. Clipsham, Summer fallow wheat or bailey, bean* or oats. Cottesmoi L, Oats, turnips, barley, seed3 for tw& years Edithweston, On limestone laua turnips, barley, clover, wheat; on sandy clay turnips, barley or oats. Egl≪to», On gravel or keal turnips, barley, clover, wheat; on clay summer fallow, wheat or bemis. 	Bishbrookc,.	Timiips^ barley, clovtr or \ wheat.
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 Edithweston, On limestone laua turnips, barley, clover, wheat;, on sandy clay turnips, barley or oats. Egl«to», On gravel or keal turnips, barley, clover, wheat; on clay summer fallow, wheat or bemis. 	Cottcsmoi L-,	Oats, turnips, barley, seed3 for tw& years
Egl«to», On gravel or keal turnips, barley, clo- ver, wheat; on clay summer fallow, wheat or bemis.	Edithweston,	On limestone laua turnips, barley, clover, wheat;, on sandy clay tur- nips, barley or oats.
wheat of Definis.	Egl«to»,	On gravel or keal turnips, barley, clo- ver, wheat; on clay summer fallow, wheat or bemis
Ftopiuglioi()	a B The	Etaninglisio
	and a second second	THE REPORT OF THE PARTY OF THE

CO	OURSE OF CROPS. 47
Empingham,	Turnips, barley, seeds for two years, beans, wheat
Essendine,	Two crops and a fallow, wheat ami beans.
Exton,	On strong loam, summer fallow, wl beans or barley, «r oats; ou i land, turnips, barley or o <u <u<br="">seeds.</u>
Glaystone,	Turnips, barley, clover, wheat, o
Greetham,	On etay land, summer fallow, wheat,
	pease or beans; ou lime fll ur- nips, , oats or bad' or vutches, or hurls or lintels.
Ryall,	On eroech or stony I ami, turnips, bur-
	ley, clover, beam or \ data or out
	on strong clays, summer tallow, wheat, beans.
Seaton	On strong lands, summer fallow, wh<
Un,	and beans; <m light="" sands,="" tumij<br="">bade} r and wheat.</m>
South Luffeuham.	Summer fallow, wheat or bas
	beans or contract of the beans
Stretton	On creech land, tumtps, barley, clo*
	ver, wheat; on strong clay summer fallow, wheat and bears
Peigh.	Turnip lev, red clover, beans;
	OB some land, tumins, barley, d
Ticleencote	Tuniing borley seed two years, out
Tiercencote,	or p^{2} or vetches
Thistlaton	Turning barley seeds wheat
A assistant,	or liutels, the hedge bea assvers
	well here
	Thou
	Thou

\$8	COURSE oe CHOPS*
Thorpe,	noier fallow, wheat or barley, been
Emwell,	On iaiioUj wheat on ligl't land turnips,
Tixover,	Strong land, summer tallow, wheat and beans, and red creecb land, turnips, barley clover, wheat.
.pingharn.	Turnips, barley, clover, wheat, (strong land seeded.)
Wing,	Turnips, barley, clover, wheat.
Wissendine,	Tunnips, barley, clover or beaus, ^vbeat.
WilWL'll,	Summer faliovr, wheat or barley, beans and pease.
Leafields, '	Turnips, barley, beans or clover, sum- mer'fallow, v
Humble ton,	Turnips, .barley or oats, Beedsj wheat.
Ketton,	On strong land, summer tallow, wheat or bonus; on turnip laud, turnips, barley, clover, wheat, <i>t</i> .sc or beans.
Langham,	Oats, turnips, barley, r.
little Caster Ion,	On strong i wheat, an ba letimef
L}-di lington,	On strong land, Hummer fidl-/•,. wheat and iiglit land?, turnips,
Lynden,	Turnips, i clover,
Manton,	On clay land, summer fallow, wheat
	or barley, beans; on rid lapdj tur-
· It shall	nips, bai vcr or beans, wheat.

COURSE OF CHOPS.

Market Overton, Turnips, barley, clover, wheat, pease, beans or oats.

Morcotj Turnips, bailey, clover, wheat. Nor man ton¹, Two crops and a fallow, wheat, beans. North JLuffenliam, Rotation lor nine years, being on the

open ik-i d v. ter11.

I Fallow, ranr. re ami	T Titrmps with <i>m</i>	J Clover, mown once,
sheep folding.	bldiog.	a Wh
S Part wheat aitd part	2 Barie	3 Beans.
f)ar!ey.	3 Gfa's or P. rlcy, with	4 Fallow, n; an are and
3 P< "cans."	nVe, no', pi-	the point of the second
4 Tornipi .	Q dung, or time.	j Wlioat a ¹¹ '! hasley.
and sheep folding.	;VLT movn '-nee.	t> Pt-ase aiu bins.
5 Batley.	5 Wheat.	7 Tun nure,
6 Oats or fcafli y,	6 reust or	and sliet, Mdiug.
manurt:,	7 Fall =, imaneure, and	s Barley.
ffcoudung. *r li.'i:e.	sheep jobding.	y Oals or >artey, roa-
" Clover, mown •	8 Wheat and barley. "	soot, pigeon
8 W1	9 Pease ftad	daug cr lime.
* PertSt. or tieans		and the second sec

N. B. There are three open fields, and the above i&One of them divided into three parts • the rotation on other two fields beinjj the same. Number 6, first column, Dumber 3, second do., and number 9* in third do., are sometimes part in **beanf**.

Oat ha in, Summer fallow, wheat or **barley**, beans. Pickwoiih, Turnips, barley, seeds Iwo years, be-

> ing sometimes mown the*tirst yt and eaten off the next; pease or barley, or o;its; on wood land, wfreat, bean's, or wheat and seeds, ihon barley.

Turnips, barley, clover, wheat.

Turnips, barley, seeds one year, sometimes red clover, wheat.

Turuipi, barley or oats, **red** clover, wheat; oi *rye* eaten off with sheep, then turnips.

Turnips, barley, seed* two jetrs, <te wheat.

RUTLAN

^{Jj}lton,

Preston.

Ridlington,

Gunthorpe:

CO^1 I I I O I OI\S.

It will be observed **that tl ps or** poor hlancl, and uli which ⁱ i undertime lent im-»perly conducjjj 1 has rienced the utility of tin melhi it is atwith a more early tion, more labour, aud some expense, it may be some tiu it be brought into gencr.il pi ; or on this thin (and it would be found of tht, : service, *m* the farmer would thus be ena! ive the clover a top dressing, thus not only adding la burthen of that crop, but smotl $udwou^{^ ^ ^ }$

the wheat crops thereby ene the dm ghill probably, some farmers >. *I* the objection, which a table fanner did to me, when on my survey of the county v(Bi mishire, on my explaining to him til tge of working up his yard dung into c< pitscribing, it made more stork; Chat !. all found it a great expense to cart ihe divis, ^{afi}d that if lie came to hav' 11 It I be - If an/ method c^ild b< pon, w the profit curhe i >uld have but 1 know nothing of has been a publication pd then a publication issued from the press, setting forth a system of farming •11 expect horses to do the work of the family without food, exer, iting on some small pieces of land, then as are to found in somle of the while ric'ment of the land, such smothering crops of hemp, wheat and beams are produced, that crops »i this course in the grown for a set bag in ! without any aid of in anure,

CUURSE OF CROPS:

Ete, but su rare, an I reater part of the arable hand in this kingdom, dung is lain spring on which nil ot it is certainly most essential to grave 55 much manure as will give a proper proportion to every other year to keep the land aliver.) By the present system under turnips, Imrley, clover and wheat, the hand gets so much reduced •mi bui; only one antc in four light si sort of were a cart load of it reduced into mould, whald but conconsist of abo; tt seight bushels, therefore twelve boads would but the ninety-six bushels per acro in four young when, in tin course of the second to be the second of the scribe, 720 bushels of good tertile earth would he laid on I's land per sare. The salts woold also be retained in a much greater proportion, bushel for bushelyin the latter than in the former; indeed I have some doubts whether any sails remain in the minure at all, under their present management of it. By the new method there would be 12 loads of compassion turning, then six loads more on the clover, and then, after the wheat crop, from four to six loads of compost applied in the drille to the pease, in J have before described in Chapter IV., Seat. Vit. Faurvery partis to having wheat for the crop preceding turning, having always found them to be better after a wheat crop than any other; inv object is, as I before said, to have only one clover crop in six years, instead of one in four; the pear crop in therefore, a change, or if all the crops could be kept good, the four years course would be as profitable. it will be observed that, in the six years course, there are to straw crops in 12 years, and in the four years but mue; that the former receives dung six times, the L tier but llu-ee umes. It may be here said, perhaps, that the six years to the manure, is like a travellt s

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baiting his horse before he needs it. In answer to this, I bave to say that, when any thing gets low in condition, it takes so much bringing up again, that 1 am for getting it into condition and keeping it so. On the very thin lands there can be no better method pursued than breaking them up for either pease, oats, or any other grain; it may be more congenial to fallow for turnips, barley, seeds for two years eaten by sheep, and then plough them up again; because, on such land, the feeding off the seeds for two years is as much as it will bear, and, were it to lay any longer, it would not keep much of any thing; on the red land the case is different, for on it grass stands uncommonly well, and Mr. Fludyer shewed me a piece of land of this description with most luxuriant grass upon it, which he observed, " Came in course to be ploughed up next spring, er that it seemed absolutely shameful to take it up." On the clay grounds a much better course might be pursued than is at present, by manuring for beans instead of wheat. 1 most highly, therefore, recommend the following system to the strong clay-land farmers in this county; ma* jiure for the bean crop with 12 cart loads per acre, sow the beans Inroad cast, hand-hoe them, setting them about four inches asunder, weed them with sheep, after the crop is hoed, winter plough before Christmas, or so as the land gets the frost, and sow the barley on that ploughing, as soon as the crop is weaned from the kernel. I should recommend eating it by sheep, which would make it tiller/ more level, or as it is provincially expressed, prevent so many "men and boys" and have the further advantage of giving the barley a firmer root, and preventing the growth of small weeds; then on the clover crop lay six loads of compost, mow the clover twice, plough it up and sow the wheat, then give it from 50 to 80 bushels of lime per acre, according to the nature of the land, I have seea

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this method tried with success, not only on clay soils, but oirsaud land, aad even limevtone. During the winter eat the wheat off by sheep, as, from their treading the land, the lime and earth are worked together, the ground weeds dre prevented from growing* the roots of the wheat are rendered firm, and prevented from root-welting,; it has also a tendency to a prevention of the mildew, and iu a degree the ravages of It is understood that this pro* the wire worm and slug. cess is on land free from couch-grass, or, if not, a spring fallow *must* be had recourse to for the barley. This process will be found to be much more profitable than the present system, which has been already shewn under the head EXPENSES AND PROFIT, CHAF.IV. SECT. VII. The land always producing a proper.quantity of dung for its various purposes, without purchasing, as will be found described more at large under the head MANURES.

Mr. Hintou has been' very successful ill having good crops, from management which I have always considered improper on any land, and particularly on such dry soil as The course of crops as follows: his farm consists of. 1st. oats; 8d. oats; 3d turnips; 4th. barley, ray grass and ^nial! ^(ds for tour years, eaten off by sheep, cattle, and horses; then to plougii up again and return to oats for two Tile two white crops together are what I parcrops, &c. ticularly object to; alter the two crops of oats he fallows and applies from SO to ICO bushels of lime, and from, 15 to 20 loads (cart loads) of fold dung of rather a light and strawy nature, per acre, which is too much dung at once, then sows turnips, then barley, &c. as before, I am ready to allow, that better farming in this way, in my opinion, was "ever seen, there being scarcely a blade of couch-grass to ** found on the whole farm; he never had, before this >***', (1806) any failing crops, or.indeed, from what I could learn in his parish, even any partial failures, but this year his crops have nearly all failed. 1 am the mor particular *i*> 3

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partki! in oider to s that, even on the most fertile goils, where the land is light, it is all host an impossibility to more two while crops toge-•ther for ai 1 prop' .) o up to the limit frequent conversations with Lord V inchelsen (previous to bavin; the bonour to survey this county) with respect to farming, and having always signified that I was In :;»]j'-;il to I along two while crops to enter, s always to combat my int^n^Ts pro !y contrarj my opiiiioii. Oi ay arread at Darley Lyns, therefore, naturally anxious to see Mr. Hinton's farm : soon after my arrivyl K> ne is to go with me there. Mir, Hinton very readily shewed us over his farin; the only thing I particularly noticed this time was a turnip crop, which had been sown some tinge, and hild arrived at a state nearly ready for hoeing, vf en the greater part of it had declined in such a in:mor as not to be worth hoeing; the cause of this it was alledged was, that the wire-worm and the rook; had destroyed the plants; upon carefully examining the roots of the turnp plant which were left, (which had a dring appearance) we found at many of them from three to six small white worms, having many feet, a small quantity of red worms, much of the same shape and size, and some small red worms, having the liteness of earth worms; r at T believe they were of mother species, as earth worms are not generally found it soil of this dry nature, but in moist and rich places, under stones, &c.; there were also some genus. The ploughs being at work, in order to sow lumps a second time, gave every apportunity of discovering the quantity and species of worms, S.c. At the corners of the field and ilu headland, there were several spots of turning looking fourthal, and very DBI" icularly From

COURSE OF CROPS.

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HI the gate at the entrance of ihc field, in a line strticiug across every land from one corn ihe other of it, yards in width, there wa ry productive cr which had htren lifted, and looked d also on a broad space spreading in different dirt gate, but for no ver upon tMiq rmed dud across the iield, where the tint. a crit and riding way for the four years it 1 ad been pastured, and where the broad space way, that there had been a dungiiiii; uptm this we examined the earth on these two jiluct-8, but di not esse find one of those sortine of crube, which lia<! I will the second structure to the other; this will appear th< ii:led th on i ch side of this part, which had been a cart-way, the worms and gruJj left; as A receivered parts on the floadballs where there were turnip plants L the-e inst tuentiou al, we examined the earth there, and found some worms, &c. though not so numer ous at that time as to deal roy the plants entirely. 1 then (newed the out crops, but did not go into them; I found that the crop of oats way, much worse and fuller of weeds than thic I see a sum the field of the portamty, some days after, with Mr. Hinton's leave, I viewed the chips again; I now found the field, which was to liave been op of sitSj in muir for several across successively to IJC x c obtained crop of sow thU • c. all which had the most lu ally the sow the being from three to four feet in her lit, and all in seed, and scarcely a stem of outs to be seen amongst them; on some other parts neither weeds nor outs growing; si in any oi" the tiolt

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I wish to remark this, to shew that Mr. Hiutpn was 9. clean farmer, and, from his success for twenty years together, must have the reputation of being a good farmer, although far from scientific, not haviuj the remotest iciua of the cause pf the present failure of his crops, except that it had been caused by the worm or grub; on examining the earth in the oat fields 1 found no worms, but where no plants were produced, the earth felt dry and warm, and hung together like chopped hay. 1 found amongst it many fibres of the roots of grass, oats and stubble undecaycd* It will here be necessary to remark, that the season had -not been particularly dry; sufficient rains having fallen to give verdure to grass seeds on the farm, and to make the natural pastures wear a luxuriant appearance; also on land of the same nature, in Burley Park, there were as fine crops of both Swedish and Norfolk while turnips as could grow; and also on the land which had been trodden, already mentioned on Mr. Ilmton's farm, the turnips were vury luxuriant. But to return to the oat crop, in one part of the field there was a hollow part near to a run of u ater, over which there was a bridge, and on this part, owing to the horses, cattle, and sheep, having walked by the side of the water to pass over by the bridge, there was a good crop of oats; also near the entrance gate, where the horses, &c. had resorted much, and thence across the field over the bridge to another field, where, when in grass seeds, there had been a road much frequented by the farm servants going to and fro, and bj cattle, &c. for about three or four feet in width, or the breadth of a swathe of oats, the crop was good and free £.om weeds, but on eacjb side nothing but weeds were pro-The barley crops were strong, and had a good duced. long ear, having been turnips eaten off by sheep the preceding 3'ear, but were very full of ground weeds, such as

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COURSE GF CHOPS.

low .weed, 8cc. Sec. These different views were taken during my Lord Winchelsea's absence; on his coming from. London, and making' enquiry of Mr. \Vilson of the state of the crops, his lordship was astonished to hear so unfayourable an account. His lordship taking my along witty him to view them, found the crops as bad as had been represented to him; and on otir arrival at Mr. Hinton's, his lordship questioned him as to the cause. Mr. IJ. tjm'cUy replied, ^u He did not kpow, nor yet **bow** to remedy **sue** misfortune, for his oat crops having failed, he was pretty sure that his next year's turnips would also, and after that his barley, &c." In these remarks, if ihe present system be **pursued**, J thiuk him ciy right. Tin: business of my purvey taking me from Builey at this time for about three weka; when having returned, I went to view the second which, as was us lull expectation, tad again totally failed, though there had been proper rains to make it seed spring up, and the plants had come up it) due time, and were very regular; yet instead of goiug forwards to a iize fit for hoeing, they bad all regularly declined, there being at the time I now speak of, nine-tenths dead ; on examining the earth, no worm? were found ai the loots as before.

Having thus gone over Mr. Hintou's management and its fuiluve, it remains for me to give an opinion on what method ought to be pursued to rendor the land as productive as usual, or more so. I consider ihe following process, which I gave to Earl Winelietaea, when at JBurley, to *Ins* capable of ef fee ting this desirable **purpos**

When the seeds had been eaten two years and a half, at Micbaelraa* or Martinmas twelvemonths., before the sward was intended to be broken up, SO buapplied ; it may not be of mal nuequence etbat iu a slacked state or not; but 1 should prefer

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COURSE OF CHOPS.

ing lime hot from the kiln, aiui have some put ovrrit, or amongst it, not letting it remain in that stats re than :i week, b and, spreading it fully, so that the proportion; the to proto the set Is all that wanter followii i in th> eding • duii months of Noyeml fodder cuttle QI ent parts of the fields, so as to ^ivo them a a proper and equal treading. There being but little exi:a-International the damp and units ...onId be of Then take and carefully rake np all th< service. straw from i the land, and cart it into the fold-rard, on no lung any part of this i .to ifee. .land; for it being a ire **LIU** and thing the state of th to making it light the bound because be avoided'; after the ploughing, sow oats as usual, cating them off by sheep. rop was off, then immediately searily the I it n d, harrowing all the refuse staff up; and if the season should permit, barn it \Leftrightarrow ; ibe I defined and it away into the defined &c. then permit again, and srtV colemed, harrowing it into the ground, then the outs, which had shelled in harvest, would up with it. s\t u proper time., eat ibe crop off with sheep, o: if in part by cattle, so much I be better. This hi. lotigbiiig the land as deep of comparent than tin the will admit) and into much a way as to keep it close ai **dry.** I :ep as the plough had gotie, if it seems to go ensy, and does no injury to the bor es, or has little of no couch grad a in the soil; if il I. sour <hgrass in it, by all means plough a second time, it being i) the couth-grass is fast in the land, as it breaks it in short pieces, thereby, not to be difiicult to get it

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for thicker than before; then harrow, rake up, burn ort; ike oft" all the stuff* by no means omitting this afleway operation. In the second ploughing and in the vi: some second in the first ploughing, &s:. by no means crossing the lands, for if this he does the necision operation I drier will \lor prevente: 1. By cross ploughing, the sode are cot into square furrows, and roll about in such a to doe carifier, and prevent its u-t'ih from through them; the sods are thus drawn up in that neither barrows or ;my thing laud laud properly. All this ought to be done as early in the season possible; and the Itnic! b< and all the couch out, roll the I III that rabl die time of sowing, i part of the w'inU of some clavey substance, of as a wet a nature as could be found on the farm, intermixed amongst, u>fHit one tliird long straw dung in its ran- stal rienced 1' . 1. paees K ffom in to 15 loads per acre; then sow tumips and cole, toeing and enting off the weeds, as directed in Experienced Fa. mer, edit. S. vol. L. pages 413 to 434 ; flat done, plongh this for barley, and saw clover, enting off the barley by abeep, as directed on the wheats, Esperienced Farmer, etkt. 3. vol. 1. pages 375 to 384; and also very fully explained in The Linglish Farmer in Ireland, pages (3) to 72. The barley crop being got off, having some compost ready of the same nature as that applied for the turnips, lay on six cart loads per acre, and either mow the clover twice, "r tat it elf by sheep ; it is hard to say which is best opon this dry light hand, but f rather tlnnk in wings then s ow when it is up, lay on a top dressitig of form 60 to 80 bushels of lime per acre, tread-

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Jug the wheat by sheep, &c. (previous to sowing the wheat, Jet the land lay from 14 to CO days) early in the spring, eat the wheat off by sheep; the wheat crop being off, collect the stubble, and lead it off; then scarify and harrow the Jand, burning or carrying off all the refuse stuff; then make drills for the pea crop, as directed, Experienced Farmer, edit. 3. vol.]. pages 325 to 533; that being done, as the pea crop would be off very early, scarify the land as directed above, applying four or six loads of compost; pud sow cole-seed or turnips on boih, and after them, sow barley and small seeds for pasture for four years^ as is now I am confident that success would attend this; practised. process, it appearing very evideut by that, the land only wants a different course, and rendering more coherent, which would be fully effected by the treading only. That the land is uot wanting in capability of producing crops when properly used, is apparent from the Meeds now produced being so strong, especially the sow-thistle, which is a very strong stemmed plant; and from the oats qnd turnipo, which 1 have stated to be* produced on some parts, where cattle, &c. had trod, being a very good crop, it mny be naturally deduced, that had the remainder of those lands being served in like manner, that they would have brought crops equally good, and that neither weeds nor grubs, &<: would have been found.

At Hattield, in Yorkshire, I have observed an instance in point, in support of my foregoing assertions; the soil there is of a very li^ht sapdy nature, yet by the judicious use of lime, together with treading the land, to which I attribute the greater part of the service, there are not for quantity and quality, more productive fields in .England. The parish being uninclosed, they have four fields, one of* which was turnips, dunged; - a second barley; a third clover ; and a fourth wheat; en the latter, the best managers always
always laid a top dressing of lime, so that the land had successively and regularly dung once in four jears, and lime The turnips were always eaten off once in like manner. by very great numbers of cattle and sheep, for having large commons, were great quantities of cattle aud sheep were raised, it used to be a pyact ce to first bring all the cattle from the commons, and turn them on the turnip fit:Id, where after they had remained a certain time, so as to have eaten off the best of the turnips, then the sYieep were brought to cat up what remained; thus, from the treading of the cattle and sheep together, with the mixture of their urine, dung, and lime, the land was rendered coherent, and their crops never failed. Mr. Hinton's success on his injudicious course of crops, 1 have no doubt was produced by the eating the seeds with sheep for four years. These instances have more than ever convinced me of the truth of Lord Dundonald's observation of land needing chemi-The old farmer will always observe on such cal assistance. occasions, that the land is *tired* and wants rest; so far he is right, there being no doubt but time would bring the land round to its usual productiveness; but I think I can Jftfely assert, that there is no occasion for this giving of time; give the land proper chemical aid, and it will produce more profitable crops, and of course be in better heart or condition that* it ever was before. The disorder and its causes being fairly discovered, and a curb for it almost at the dame time, the completion of the cure and the preveu* tive to a recurrence of the disease, are not very hard- These discoveries very strongly substantiate to me, what I have long had nn idea of, that the failure of all crops* as well as the diseases or maladies attendant upon them, are in the soil; but of this more, when I come to speak of the **TURNIF** CROP, SECT. XJII. of this present chapter.

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SECT. V.—SEEDS, OR ARTfl*iCIAt GRASS*!:

AYSTON, white clover and ray grass for eating off*. Ashwell, red clover for scythe, white clover, and a very little ray grass for pasture. Barleythorpe, red clover, and mown once. Barrow[^] red and white clover, trefoil; ray grass, mown the first year, and for pasture the second; but if sown with red clover, it is then mown once, depastured, and then ploughed up for whoat* Barrowden, red clover, Belton, red and white clover and ray grafes for mown. pasture. 'Bishbrooke, red and white clover and ray grass, cither mown or depastured. Bridge Casterton, red and white clover, ray grass, and trefoil, mown the first year j for pasture the second* Braunston, red clover, mown; white clover, ray grass, and trefoil, either mown or eaten. Brooke, red and white clover, mown, and then eaten off. Barley, red and white clover and ray grass, mown, and theit eaten off. Caldecot, red clover, mown. Clipsham, red clover and ray grass, first mown, then eaten off. **Cottes**more, red and white clover, trefoil; and ray grass, mown the first year, and pastured the next;'if sown with red clover only, then mown and sown with wheat* **Edithwes**ton, red clover, mown; sainfoin, 100 acres mown. Egleton, red clover, white clover, and trefoil, mown; sow 14lb« Empingham, here they sow 8 lb. of red clover, per acre. 4lb. of white ditto, 2lb. of trefoil, and one bushel ef ray grass per acre, which is mown the first year, and for pasture the second; 50 acres of sainfoin, mown. Essendine, red and white clover, trefoil, ray grass, mown one year, and pasture the next. Exton, red and white clover, trefoil, ray grass, very little of the latter mown the first year, and for pasture after. Glayston, red and white clover, mown* Greetham, red and white clover j trefoil, ray grass, mown

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for hay, some cut for soiling; sainfoin; sow 121b. of red. and white clover, one bushel of trefoil in the husk, one bushel of ray grass, and five bushels of sainfoin per acre. Gunthorpe, red and white, clover, trefoil, ray grass, for pasture, for two years. Hambleton, red and white clover; ray grass, mown and pastured after. Ketton, red clover; ray grass, some little mown, but mostly eaten for one or two years. Langham, red and white clover, 7lb. of each sown per acre; ray grass for pasture, half a bushel per Leafields, red clover,-mown. Little Casterton, red acre. and white clover, trefoil, fay grass, mown the first year, for pasture the second. Lyddington, red clover, mown and pastured; white clover, trefoil, and ray grass, for pasture. •Lynden, red and white clover, mown. Munton, red clover, mown twice; red and white clover, trefoil, and ray grass, for pasture. Market Overton, red clover; small quantity of ray grass, mown. Morcot, red clover, mown. Normanton, red and white clover, trefoil, and ray grass, North Luffenham, red clover, 101b. per acre, mown. and 5 Ib. of trefoil per acre, mown once, and then eaten off by sheep. Pickworth, red and white clover, mown the first year, and for pasture the second. Pilton, red clover, mown. Preston, white clover, ray grass, respecting which a difference of opinion prevails, some thinking it best method to mow it; others are for the pasturing. Kidlington, red clover, mown. Ryall, red and white clover, ray grass, trefoil, mown the first year, for pasture the second; and sainfoin. Seaton, red clover, mown. South Luffenham, red clover, mown, and then eaten by sheep. ^S*retton, red clover, mown. Teigh, red clover, sometimes 'toown, and sometimes pastured. Tickencote, red clover, ¹⁸.'b. per acre, mown; 14Ib. of white clover and one Peck of ray grass, for pasture. Thistleton, red and white ^{clo}yer, trefoil, and a little ray grass, ior pasture chiefly, RUTLAND.] t_oug h * *

though some small quantity is mown; sainfoin flourishes very much in this parish. Thorpe, red clover, mown. Tinwell, red and white clover and ray grass, mown once_# and pastured afterwards. Tixover, red and white clover, and a small quantity of ray grass; part mown, and part eaten. Uppingham, red clover, mown. Wing, red clover, mown. Wissendine, red and white clover; ray grass, mown, and then eaten off. Witwell, red and white clover, some mown, and some pastured.

SEC*. VI.—WHEAT.

1. PREPARATIONS, by two or three ploughing*. \$. Manure, with yard, dung, and some lime. S. Season, in October. 4. Putting in, by the plough on fallows, by one ploughing, and the seed harrowed in on clover leas. 5. Seed, (SEE THE TABLE, PACE 63). 6. Steeping, in brine strong enough to bear an egg; by some only in pure water, merely as a washing. 7. Sort, Red Lammas. S. Depth. 10. Dibfrom *Si* to 4 inches. 9. Drilling, not a practice. bling, not practised, except by Lord Winchelsea. 11. Water furrowing, nothing particular as to system, but generally practised. 12. Hoeing, by, the horse hoe, but only by Lord Winchelsea. 13. Feeding, some little eaten off by sheep. 14. Reaping, &c. by the sickle; shocked, but not capped. 15. Distempers; but very little affected by the mildew this season; by the smutt, a great many crops; by burnt and red gum, none; cockle eared and root fallen 16. Stacking; common methods in long and very little. round stacks, foundations on timber, or stone pillars and 17- Threshing, by the flail. 18. Price, 75s* to caps. 84». per quarter.' 19. Grinding, paid by toll, at the rats of Of 2 in 24, for grinding, cadging, and carrying. 20. Bread; nothing worthy of observation. 21. Stubbles, these are mown, by some for thatch, others for litter; and by dome farmers are not mown at all.

SECT. VII.—RYE.

NONE sown in the county this year, 1806, except tirirti acres by Earl Winchelsea.

SECT. VIII.—BAJtLEŸ,

Is ploughed once, harrowed, and rolled. 1. Put in "Without ploughing, none; and none scarified. 2. Manuring, none applied to this crop. 3. Drilling, only practised by Mr. Wright, of Pickworth, whose crops were very thin. 4. Time* in April. 5. Sort, long eared, a little of the sprat, and a small quantity of big of the four sided kind; aome barley sown by Earl Winchelsea for the winter, for sheep-feed during that season; and some (one acre) eaten off by way of an experiment, as late as May, which proved as good a crop as that from whence the sheep were taken off a month earlier, only later in harvest. 6. Seed: (SEE THE TABLE, PAGE 6(2). 7. Depth, one inch and ^a half. 8. Rolling, by the common wood rollers. 9- Harvesting, mown and cocked- 10. Produce. (SEE THE ^{T*BLE}, PAUE62). 11. Straw, given to cattle in the ^winter. 12, Awns, broke off by some only with the flail; ^{by} others with an iron chopper, which process is termed Altering. 13. Malt, made as by act of parliament dieted. 14. $p_r i_{ce}^{h}$ of barley, per quarter, 38s. to 42s.

of malt, 74s. 15. Bread, raised with yeast, salt, &c. and laid in sponge. It is a practice to eat off turnips very late, so that barley and seeds are not sown often until May; this is a very bad practice: indeed all their harvests here are later than in the counties both north and south of them, which in a great measure is to be attributed to the very late sowing.



As to tillage* the ground is ploughed once, harrowed, and rolled; no seed put in without ploughing, nor any land scarified. 2. Manuring, little or none applied. S aild 4. Drilling and dibbling, none. 5. Time, from the beginning of February to the end of April. 6. Sort. potatoe, Irish blue, Poland, and short smalls. 7. Seed. (SEE THE TABLE, PAGE 62). 8. Depth, one inch and a 9- Rolling, same as in the barley. half. 10. Weeding, by the spud or hook. 11. Harvesting, mown and Cocked into small heaps, of about a fork full. 13. Straw, eaten by cattle in the winter. 14. Application, chiefly given to horses and cattle; none made into bread, but small part manufactured into oatmeal for domestic uses. 15. Price. **30s.** per quarter.

SECT. X.—PEAS.

1. TILLAGE, ploughed once, harrowed to a fine mould, but very seldom 'rolled, though a good method at this time; none put in without ploughing, nor any scarifying or manuring. 2. Drilling, by very few. 3. Dibbling, very seldom

BEANS.

seldom done. 4. Time, from February to the end of April. 5. Sort, the Marlborough and common gray; Lord Winchelsea has tried the pearl, or black eyed pea, and found it to answer well; and also another kind of white pea, a good looking pea, recommended by a seedsman; but the crop was not so good, nor was it so early in harvest. 6. Seed, (SEE THE TABLE, PAGE 62). 7. Depth, one inch and a half. 8. Rolling, none. O. Podding, for market, none. 10. Hoeing, none practised but by Lord Winchelsea, who uses the horse hoe. 11. Weeding, by the spud. 12. Harvestings mown, and put into 13. Prosmall heaps, about half a fork full in each heap. 14. Straw, eaten duce, (SEE THE TABLE, PAGE 62. by horses and cattle. 15. Application, for fattening pigs. 16. Stubbles, none left but the weeds, scattered peas, &c. eaten by sheep and pigs. 17. Price, none quoted. 16. Bread, none made of this grain in this county.

SECT. XI.—BEANS.

1. SOIL, chiefly clay. 2. Tillage, ploughed once, harrowed to a fine mould; rolling seldom done, though beneficial, without ploughing, none; scarifying, none practised* 3. Manuring, seldom any applied, though it would be much better to apply it on this crop, than (as is practised at present) on the fallow. 4. Drilling, by very few. ⁵« Dibbling, not much practised. 6. Time, February. ?• Sort, large horse and pigeon. 8. Seed, (SEE THE TABLE, PAGE 62). 9. Depth, when harrowed, in onp inch and a half; when ploughed, in three*inches, and sometime? deeper. 10. Rolling, none. 11. Harrowing, none. 12. Horse hoeing, none. 13. Hand hoeing, some little. 14. Weed14. Weeding, by the spud and hook; some little by sheep, 15. Distempers, the black fly and green louse. 16. Cut' ting green, some done, and said to answer well. 17* Harvesting, mown and cocked. 18. Produce, (\$E\$ THE TABLE, PAGE 62). 20. Application, for sale, pigs, Jiorses, &c. 21. Stubbles, sheep turned on them. £2. Price, 42s/to 52s. per quarter. 23. How used a» food, no way that I could hear of.

SECT. XII.—TARES,

WITH what view sown. 1. For seed, but few. 2. Hay, very few. 3. For soiling, greater part of what are sown are applied to this purpose. 4. For feeding, none.

For Seed.—1. Tillage, ploughed once, harrowed to cover the seed; rolling, but very little, or none, though a good practice; without ploughing, none, and no scarifying, 2. Manuring, seldom or never applied, though very proper. S. Prilling, none; but the tares ought to be drilled as directed in Experienced Farmer, edit. 3. pages 325 to 333; and dung applied, or compost, as there directed in pages 334 to 338. 4. Dibbling, none. 5. Time, October, February, March, and April. 6. Sort, whiter and spring. 7. 'Depth, one inch and a half. 8. Rolling, none. 9. Weeding, spud and hook, 10. Harvesting, mown and 11. Produce, 12 to 20 bushels per acre. cocked. 12. Straw, eaten by cattle and horses. 13- Application, chiefly, for sale. 14. Price, 32s. to 40s. and very fine p6s. per quarter.

For Hay.—1. Time of mowing, when in blossom. £. Making, same process as grass, 3. Stacking, the same |s. other hay._4. Salting* never done. 5. Application, given

LENTILS.

given to horses, cattle, See. value about 41. per acre. 6. Stubbles, sheep turned upon them*

For Soiling.—\. Time of mowing, as soon a9 they are ready to blossom, and continue until they are in pod, when horses like them better; but cattle do not. 2. Stock, to which given, to horses chiefly; by Earl Winchelsea, to 3. Advantages, very numerous. By stall-feeding oxen. the working horses, a great cjeal of time is saved both by the working men and the horses, and the latter always ready A great quantity of manure raised for the use of for use. the farm; and upon necessity, the land on which they were grown may be sown with turnips, though [have never found the crop so good as when sown after a complete 4. Value per acre; this is scarcely to be estifallow. I have known twenty horses kept for three months mated. on six acres; supposing therefore the keep of a horse to be worth 3s. per week, this for 13 weeks will be 391- or 61. 10s. per acre. Plenty of litter being given to the horses, from the juicy nature of the tares, there is no doubt but 100 loads of manure would be raised, which, at $5s^*$ per load, is 251. more, making in the whole 101. 13s. 4d. per acre. 6, Stubble, ploughed up for turnips, sometimes for wheat*

SECT. XIII.—LENTILS.

1. SOIL, creech, or lime-stone land. 2. Tillage, ploughed once, and harrowed to cover the seed. 3. Time, March or April. 4. Seed, two bushels per acre. 5. Application, for \leq -heep, food in winter esteemed very much. This crop is by no means a general one in this county, being used by omy two or three farmers in it; from teir j 4 report

73 BUCK-WHEAT.—ŢURNIPS,

report, and its being, though a small stemmed plant, a very smothering crop, it is well worth the farmer's notice, in^{*} dependent of its very great use as winter food for sheep.

SECT. XIV.—BUCK-WHEAT.

THIS is not commonly cultivated, having seen none but at Barley. I. Soil, red land. 2. Tillage, ploughed and harrowed. 3. Time, first week in June. 4. Seed, two bushels per acre. 5. Harvest, mown and put into small cocks; the time of harvesting being generally about the last week in September, or first week in October; iq stacking of it, to prevent its heating, the best method is to put layers of wheat-straw into the stack. 6. Application* for pheasants.

SECT. XV.—TURNIPS,

1. SOIL, red or keal land, lime-stone or creech lam?. 2. Tillage, ploughed three or four times, harrowed and rolled. 3. Manuring, chiefly by yard-dung, in rather a long light state, 12 to 20 loads per acre; and lim[^] on the red or keal lands, but not approved of on lime-stone land. 4. Time, July. 5. Drilling, only practised by Earl Winchelsea, whose crop Was beautiful. 6. Sort, white Norfolk tankard.- 7. Seed, 2£ lb. per acre. 8. Rolling, by a plain wooden roll. 9- Harrowing, none. 10. Fly preventatives, none particularly used. 11. Hoeing, done by hand two or three times over.

3ECT. XVI.—CONSUMPTION.

CHIEFLY by sheep; 1st. drawn; some few; 2d. fed on This practice chiefly followed. the land. **3d.** Hurdling, common to all parts of the county. The hurdles being made with oak heads and ledges; the head having sharp points ro fix in the ground ; the ledges are generally four, with one bar across;' but the hurdles which have but one bar, are not approved of so much as those made with two, and the difference of expense is so very trifling, as not to be any object. 4th. Expense. The hurdles cost about a Is. per dozen. 5th. Effect. The effects of folding by means, of hurdles, are very many, and highly beneficial. More sheep are kept, and much better, than by other methods; for by folding, the fattening sheep being folded on the turnips first, and the store sheep following them, both flocks are kept more regular and more healthy; as the first flock living, as it were, always at high table, will not, .when let on a fresh fold, overgorge themselves, thereby remedying the cause of the resp, or red water, which is occasioned by keeping sheep in the fold for the latter part of the time, in a very scanty way," that they may eat up all the dragged turnips, roots, &c. clean; thus, when put on a fresh fold, they naturally eat so voraciously as to cause the resp; but by putting on the store-sheep to the turnips that the fattening sheep have left, this evil is avoided; more sheep are also kept per acre, and much better in every respect. The store-sheep not having been used to the better sort of turnip, will eat up clean all the refuse and the worst kind of turnips; there being a great difference in the quality of turnips, even in one field; some being much more gratifying to the sheep than others, and muck

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much more fattening. There have been many trials made to fatten sheep by carrying the turnips off the land, and giving to them on grass land; but it has not been found to Turnips, when fust in the ground, are in a better answer. position, and, of course, more firm to the bite of the sheep, and arc thus nearly scooped out, 'ere they are dragged and given to the incoming store-sheep. By the turnips being thrown into a cart promiscuously, they are all daubed with dirt, and are by no means so fresh and pleasant to the sheep as they are whilst growing in the field. For as gooseberries are more pleasant to the palate, when gathered one at a time from the tree; so it is with turnips to sheep. And a grazier or feeder of sheep, &c. cannot attend too minutely to such circumstances. Another reason why turnips, when carted off the land, do not answer is, that when taken and spread on grass land, they (the sheep) have no fresh supply until every turnip is eaten up; and, although there shall appear to be no difference in the turnips, yet those which the sheep refuse, it is certain, are not of a fattening 'quality, but hunger obliges them to eat them. It is, therefore, obvious that fattening cattle or sheep ought not to be kept in this way, but should be followed by the stores. As thus, a very great waste of both time and money would be avoided, and both flocks be kept much better: for it is probable, that during the time the fattening flock is thus kept upon what they at first refused, that they are upou the shrink; therefore the refuse had even better been wasted entirely than And, in fact, where the system of folding thus managed. is pursued with but one flock, much waste is committed, for a custom prevails, that as soon as the first fold of turnips is eaten low, and the best part of them picked out, then a fresh fold is given to the sheep, as soon as this second fold is eaten down similar to the former one; then

the turnips which remained in the first fold are dragged up; the sheep will now fall back, and eat part of those draggings; but the remains of those turnips are then got into such a state, that no sheep will touch them: whereas, had there been a following flock to have been put on immediately as the other left them, there would have been no waste. A good crop of turnips keeps such a number of sheep for so long a time, that with but one flock and one fold it is impossible to make the best use of them, for before the whole can be taken off with one fold, the ground will absolutely stink of the sheep; and a fattening sheep, under such circumstances, will refuse to take a proper quantity of food to keep him in a progressive state of improvement. When it is, considered, that instances have occurred of a fat sheep having laid under a snow-rick for 21 days, and when taken out, has appeared strong and healthy, and ran into the flock as though nothing had happened, it will not appear very extraordinary, that a .sheep should refrain from food which he is surfeited of, so long as to cause him not only not to be in a state of improve* ment, but absolutely to be declining. Another advantage in the two folds is, that the land gets more dung by the turnips being thus all properly eaten up. 1 think the pulling up and carrying off turnips from land is a very bad practice, because it creates two unnecessary expenses, the carrying off, and the bringing back again the dung, which would otherwise be made and left on the land. Cutting turnips for animals is another bad plan; for by their being thus cut into small pieces, animals arc very apt to swallow them whole, when the great art in feeding animals is so to prepare their food as to cause them to masticate it, as the greatest part of the fattening quality of food is taken in by the glands of the mouth. The only objection to the plan of having two folds is, that it requires a double quan-

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tity of liurdles; but the advantages in keeping more sheep, and those better, will be an ample remuneration.—13th. Value per acre from *SS* to £.4. But as I have before observed, it is nearly impossible to give the vplue of this crop, particularly on the creech soil iir this comity; for if a good crop of turnips be raised, there is then a certainty of a good crop of barley; for, in addition to the manure laid on the land to produce the turnips, the sheep being folded on them, leave another dressing, in all probability, equal to that laid on, and the straw of the barley being carefully used, and converted into manure, is the occasion of another good crop on some other land, so that the turnip crop is, as it were, the king of that kind of soil; for, should there be a failure, of the turnip crop, there is almost a certainty of a failure throughout the whole course of crops; it therefore highly behaves the farmer to pay every attention in the culture of this plant. 14th. Mode* of preservation. None.

With respect to the fly in turnips, it being impossible to destroy the fly, or if it were possible, it could not be done until too late; therefore, the desirable object is so to cultivate and prepare the land, as to render it unfit for the reception of the eggs of the insect. In a very ingenious publication, called Observations respecting the Grub, printed for Mr. Harding, St. James's-street; and which I recommend to the perusal of those who may not already The fly called father long legs, torn taylor, have so done. &c. is proved to be the parent of those destructive reptiles, called grubs, which afterwards become the abovementioncd species of fly. In discoursing with a gentleman at Northampton, a very well informed man keeping a large academy there; our discourse turned upon the subject of insects, &c. destroying useful plants. He ob« served, that having a large garden for the use of his house,

lie had frequently had two plots of turnips sown on (he same day, and with the same seed, and the plots not more than from five to ten yards asunder, yet that one of them should be totally destroyed by the fly, and the other, a very fine crop, and quite unmolested. His opinion coincided with my own, that one of those pieces of land had, from some proceeding previous to the sowing of the seed, been adapted to the reception of the "eggs of the fly, which he recollected to have been very busily employed, bending its long tail towards the ground, as though depositing something. The sort of fly, from the description given of it by this gentleman, was the same mentioned by the author of " Observations on the Grub." Combining this gentleman's observations in his garden with my own on the turnip crop, &c. at Mr. Hinton's, I have no doubt but the fly is absolutely brought, or, as it were, *invited* to land by the use of *improper* manure, and an improper method of cultivation. In the first place, then it appears plainly, that any method which causes the plant to grow the quickest, is the most likely to tend to a prevention, and that making land firm and solid, will prevent the fly from depositing her eggs, as Nature has taught her to deposit them only on dry, loose, and light soil. Therefore, as early in the Spring as possible, proceed to get the land free from all the couch grass roots, pulverising the soil, and rolling it well down; then let it lay in a quiet state, until the time of sowing the turnips. If ground weeds grow in this space of time, the greater the quantity the better, for it will be a real advantage, by keeping the moisture in the soil, and being the utter destruction of the weeds. Then a few days before the plough enters, run the land over with the scarifier, letting the weeds wither and die. -After the ploughing, manure with *compost*, which, when spread, harrow together with the moulds very fine, as thus, the compost and

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and land being both moist, are so worked together, that every turnip plant receives an equal proportion of benefit; and being thus applied to the tender fibres of the young plant, cause it to grow very rapidly. The very contrary of all this, is the consequence of the present method, for by. the repeated plough ings previous to the sowing, the soil has been so frequently turned over, and exposed to the sun and wind, as to be totally divested of moisture. Instead of the weeds being destroyed, they are* by being prevented from growing at this season, preserved to grow up* along with the turnips. Then, by manuring with long clung, the ploughing trails along the dung into large lumps, the harrowing drags great part of the manure to the top of the land, where the salts are completely exhaled from it; and it is left little better than old dry thatch.' Even great part of the dung which is covered, is covered so slightly with earth, that though the turnip seed grows, yet, in a certain time, it must die for want of *depth of support*. I can, in short, look upon land thus managed and thus manured, in no other light than as a nursery for the fly, its eggs and grubs, and as much pains taken for this end, as those do who raise silk worms. I have no hesitation in asserting, that were a field managed land for land alternately, one in the way I have laid down, and another as is now practised, that the former should receive no injury from the fly, &c. and that the latter should be totally destroyed. I had a striking instance of this nature in Ireland; the field had all been prepared alike, and all but about half an acre, spread over with compost; the half acre was dunged with long dung, and on this part the fly totally destroyed many of the plants in their young state, whilst on the remainder of the field there was not a single instance of the fly injuring the plants, With respect to rooks, and the question whether they destroy the turnips,

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there can be no hesitation in saying that they do not; for, . that this plant is not their food needs no other refutation, than simply observing that the plant, though pulled up, is always left; it may also be observed, that such plants arc always of a po»r bad nature; this is caused by the grub, or worm, and this is it which causes the rook to pull up the plant as the grub lies at the root of the turnip plant, and the plant would have soon died, had it not been pulled up by the rook.

During the time I was in the county of Rutland, I took great notice of a very luxuriant crop of turnips, expecting the crop would go off by a disease called fingers and toes; the first symptom of this disease is to be observed on a hot sunny day, long before it becomes general. On sucli a day, being riding past the turnips, I perceived that on a small quantity of the turnips the leaves began to droop; this is the first perceivable symptom of the disease. On information being given to the farmer who owned the turnips, of the disaster which was likely to happen to him on this crop, he was surprised, but, on examination, found it too true. He, being a very clean, good farmer, had begun to pull out the yellow golding, fat hen, &c. with which the land abounded; for though the land had been very correctly hoed, yet the weeds having been buried when the ploughing was done, in a green state, and being now underneath the turnips, caused the land to lie light and dry, by which the turnips turned to fingers and toes, and then die^ off, when the weeds began to sprout up in all directions. This disease being but little known in many parts, it may be Necessary to say something of it. Jt very frequently happens on land that is good for seed, and very often good land, but light; in this county it is principally found upoa * ^c red soils. The yellow marygold, or golding, willow weed, fat hen, chick-weed, &c. but more particularly the golding

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golding, are generally to be seen in great numbers on land subject to this disease* At the end of the fibres of the diseased turnip is a small knot, not unlike to a young potatoe, and within this generally a small worm; by this the plant is deprived of all nutriment from the earth, it falls up and dies. It is well known that this malady always happens on light soil, or at least such as are light and dry in the summer SEASON, for the disease occurs sometimes on land that is very wet in the winter. I saw some land of the latter description at Langham, iuider a clean farmer's management, who had most excellent crops of wheat, barley; and oats; yet his turnip crop was very full of weeds of the description I have before mentioned, and some of the plants[^] inclined to go to fingers and toes. A cole crop was even still fuller. I mention this circumstance to shew that there is no general rule without an exception; the soils of these farms being very different, the one being wet and the other dry. I shall proceed to give an opinion as to what method would be advantageous to each. It would be advisable to persevere in fallowing for turnips or rapes, or rather for a mixed crop, as the boeing on this land makes it light; and it has been experienced, that when a crop of turnips has been found out, whilst the hoe was at work, to be going off with this malady, that on ceasing to hoe any more, that the part which was hoed has gone off entirely, and on the other part, which was unhoed, many of the plants have flourished, but even here the crop has been very unsightly and a As even the pulling up of weeds great many weeds. lets in the air, and lightens the land, therefore this method of extirpating the weeds must also be avoided; therefore, when I perceived the disease coming I should put in cattle and sheep in great numbers to eat up the turnips and weed's altogether, as soon as possible, as, if they

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are not eaten off very expeditlously, the turnips keep dedining so daily, that there would soon be none to cat, at the same time the weeds keep encreasing, and get into seed, and when in this state nothing will eat them. My principal object in this proceeding is lo tread the -land by cattle and sheep, which are also eating off the produo* of the land, which if not eaten then could not be done at all, as it would soon decay, excepting the weeds, which are also thus prevented from seeding the land. Though it may be very grating to the farmer's feelings to be eating off this crop, when he does not at all want it, yet, as this will be at a time very proper for getting a good cover of grass on his pastures for the winter, even in tbk point of view it will be serviceable. For the land itself this is a highly important proceeding, being very beneficial to it from die combined advantages of the treading, the dung, and the urine of the cattle and sheep. When the crop wa9 eaten off, 1 should immediately plough up the land and sow cole seed, or, if proper for that crop, would sow rye amongst it, or oats, and eat the crop off as before.. If tve was sown amongst the cole seed, and let stand for a crop after the eating off the cole, it is a query whether as good, or even better rye, might not be produced in that way as by any other. The eating off the cole with sheep (or cattle if convenient) would so dung the land, and give the rye so firm a root, as to cause it to grow very luxuriantly. I have some reason to believe that wheat s&wfl "i that way would answer, as I saw an instance in the county of Huntingdon, of Wheat being sown on good clay land, after a summer fallow, between the 14th and ^4th of .August, and it was one of the finest crop9, and ^ready to harvest near one month sooner tliaa many crops in the county.

BUTLAND.]

SECT.

LITTJ.F. of these plants cultivated U'r seed ; some sow* for sheep-feed.

· SECT. XVIII.—CABBAGES.

1. SOIL, red land. C Nursery.-1. Soil, loam. 2. Manuring, yard.dung. 3. Seed, gib. per acre. 4. Sort, drumhead, or cow cabbage. 5. Time, sown in August. 6. Transplanting, in October. 7. Watering, practised and done by hand, with common watering pans. 8. Grub, plants frequently infested with that reptile, but no method of destroying it known.-3. Tillage, the land ploughed very deep two or three times. 4. Manure, yard-dung, 25 loads per acre. 5. Planting, in May. 6. Drilling, where intended to remain, none. 7. Horse hoeing, practised. 3. Hand hoeing, used. Q. Weeding, by hand. 10. Consumption.— I. By what stock, sheep and cattle, g. Carted off, universally done. 4. Any mode of preserving? none. -11. Value, very great; no crop that grows, on* land be-, ing of a marc fattening nature. 12. Exhaust or improve? exhaust, and require a great deal of dung and good land to grow them on. When used ? in winter. How ? by stallfeeding for cattle, and given on grass-land for sheep .--3. Comparison with turnips ; better food than turnips, but more expensive to raise.

SECT. XIX.-RUTA BA.GA, OR SWEDES

SOIL, red land!} or keal. 2. Tillage, ploughed three times, and harrowed. 3. Manuring, with yard-dung, $\pounds Q$ loads per acre, **requiring** more than the common turnip. 4. Seer -. per acre. 5. Sort, both white and C. Time of sowing, May, or first week in Ju Transplanting, little or none done. Horse homig, nont:. \leq). Hand hoeing, two or three times over. 10. 1'ly, no remedy known for this disease or malady. It. Application, given to sheep and aitile. 12. Value, reckoned of great value. 13. Comparison with turnips; they are thought not be so **fattening** in the fore part bf the winter, but better in the spring than the common turnipd.

SECT. XX.—TURNIP CABBAGE.—ftone.

SECT. XXI.—KIIOL HABIE.—None.

SECT, XXII.—BOORCOLE KALE, &C.

NONE in the county; but boorcole kale might be taken with great success after tares; when in Ireland, I planted a crop of this plant after tares, and kept it foi .'.tening sHtep until Ala> ; when the turnip cr-, I had a great produce, and **found** it **extraord** ood **fattening** food for sheep. **From** u, nature of this plant, **when** high and strong, **from** its branching out so in sprouts, *I* have no doubt, bur a given quantity of laud will keep more stock, and better than any other plant at the season of I : it in. I therefore highly recommend us cult.

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SECT. XXIII.—CARR0T5.

NONE grown for an extensive use.

SECT. XXIV.—PARSNIPS.—Ditto.

SECT. XXV,—BEETS.—Ditto.

SECT. XXVI.—POTATOES,

THIS crop is only raised in this county on a very smalt scale, and with no other view than for domestic uses.

SECT. XXVII.—CLOVER.

1. WITH what crops sown? with barley in general. -2. Manuring, none used. 3. Seed, from 81b. to 10, 12 and 14'1b. per acre. 4. Time, generally at the sowing of the barley. 5. Use, some mown; some fed off; some soiled, but a small proportion; and some little seeded. 6. Which the best preparation for wheat ? mown twice, and then ploughed. 7. White.—1. Culture_A sown with barley, but very little used. 2. Produce, not known, the crop being mostly fed off.—8. Is the land tired of clover ? in some few instances. 9* In that case what variation of rourse ? peas, or peas and beans are then taken.

SECT. XXV1JI.—THEFOH-.

I. SotL, Creech, red, woodland, and clay of al! sorts. 2. Manure,—_____3. Sued, never sown by itself, therefore seldom more than 4 or 6Ib. per acre. 4, Time, with the barley or oat crop in April. 5. Application.— 3. Mown, in general mown the first year, 2. Fed, this done in the second year. 3. Seeded^ none.—6. Duration, for four years.

SECT. XXIX.—KAY CRASS.

L. StHL., on all soils in the county. 2. Manure, none.
3eed, oitti bushel. 4. Time, April. 5. Application.
— 1. Fed, generally. *1*. Hay, sometimes in the first year.
5. Seeded, very seldom.—ft, Duration, sometime? from four to five years; but seldom more than from two to fou* years- 7- Preparation for what crop? in general oat*, but sometimes pe:

SECT. XXX.—SAINFOIK.

I. SOIL, creech or Inne-f[^]tone. 2. Manure, none. *Z*, Tillage, sown with the corn crops. 4. Seed, four or Is pur acre. 5. Time, April, (*i*. DriUhig,none 7. Application.—]. Hay, mown, for this purpose generally. ,.,1, some lilt I. After grass, depastured with sheep.—8. Duration, for rive or six ytrurs. 9- Har-'rowiii- to. How broken up, by the plough, aud generally

SAINFOIX.

generally for oats or peas, 1j. How soon renewed; the sowing of sainfoin in this county is too new a practice to obtain an answer to this question. Tins crop ought to be much mure cultivated in this county than it i», nil the thin creech soils bciir; remarkably well cal:ulated for its'production, and when the ml lure of it was well un >d, wbaltf be one of the Inable. The land would hoar this crop fur twelve or fourteen)* am: i cut From one to 1^v\o tons of hay per acre. **Show and shrep**; and ery early harv< -ot at ! expense. The edded will be ready at a time wijeu the other article ial gnu might then be taken off from the i i the ruonth of Jure or beginning of July: this would give the ewes a great opportuing the get stand the winter much better. The corn si would be ready by such time as the best of the sainfoin eddi.shcs were over, upon which the ewes or lambs, or both, as occasion required, might be turned. Upon land of this nature, the farmer should have s piece of new seeds every year, and a piece of clover, i _____,lk for his standing stock of hay, a; ut too often the practice to meadow land, which ought not to be thus treated on any account. The hay ought to be got off from the sainfoin and clover, and the grass land kept for pasture. I saw many acres of land in this county, which, if sainfoin were taken on them, would become very valuable; and which, in their present state, are worth scarcely any thing. There **DO** point up **tttention** is needed from the farmers of this county lh:m this.

SECT. XXXI.—LUCERNE.

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THIS crop flourishes well, but is but very little cultivated; nor is it all to be recommended, for though a small quantity of ii, found beneficial for the soiling the team-horses, as it is found to grow quicker, and is of a ticc than any other crop after mowing; }et ihe preference is certainly to be given to tares or lintels, were it onls from *tkdir* being a good preparation for any following crop; but moreover than this tares or lintels may; i! i iv≪d t≫ be grown on such lands, that little or no rent can fairly 1 for their growth.

the following crop* ihi no cultivation in this :ouii! i.t, hops, hemp, flax> E^uorice, i_t teaftils, carravviiys, or coriauders.

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CHAP. VII.

MANURES.

Ashwell,	Dung 15 loads per acre, lime 120 bushels per acre.
AYSTON,	Do. do. 15 quarters per acre.
BARLEYTHORPE,	Do. and stable clung from Oakham.
BARROW,	Do.
BAEHOWDEN,	Do.
BELTON,	Do. lime and sheep folding, the latter in a small degi •
BfSHBROOKE,	Do. lime 80 bushels per acre.
BHAUNSTON,	Do.
SRJDGE CASTERTON,	Do. and stable dung from Stam-
	ford.
BROOKE,	Do.
BuRLEY,	Do. and lime 10 quarters per
	acre.
Caldecor,	Do.
COTTESMOHEJ	Do. and lime on red knd, from
	80 to 100 bushels per acre.
DIT STOKE,	Do.
	FDITHWESTON

MANURES.

EDITHWESTON,	DO. laid on the lawa: compost in
Ν	use by Mr. Tonoliu.
EGtETON,	Do. and lime*
EMPINGHAM,	DO.
EssEN DINE,	Do. and sheep-folding.
EXTON,	Do.
GLAYSTON,	DO. and some lime used.
GREETHAM,	· DO.
HAMBLETON,	DO. and lime.
GUNTHORPE,	Yard dung.
KETTON,	DO. and lime lias been used, but
	was tlu>ugUt to injure the land.
LANGHAM,	DO. ten loads per acre.
LITTLE CASTERTON,	, Yard dung; stable dung from
	Stamford, 10 or 12 loads per
	acre; pigeon dung used, and
	approved of very much for
,	wheat and barley.
LYDDINGTON,	Yard dung and a little lime used.
LYNDEN,	DO.
LGA^IELDS,	DO.
MANTON,	DO. paring and burning used and
	approved.
MARKET OVERTON,	DO. 12 loads per acre; lime 80
	bushels.
MORCOT,	Do. sheep folding and lime.
NORMANTON,	Do. do.
NORTH LUFJPENHAM,	HO. do. and lime 15 quarters per
	acre.
OAKHAM,	DO. and stable dung.
PICKWORTH,	Do.
PILTON,	Do. and laid on the land in its
	long state; lime 10 quarters
	per acre.
	PRESTON,

90	MANURES.
PKESTON,	Do: lime 80 bushels per acre*.
ft ISLINGTON,	Do. lime.
KYAL,	Yard dung, 8 loads per acre; paring ano\ burning practised on the <i>he^ih</i> , and much ap- proved.
SEATOX,	Yard dung and sheep-folding.
SOUTH LUFFENHAM,	Do. da.
STRETTON,	Do.
TEIGH,	Yard dung: lime and soap boil- er's ashes.
TICKENCOTE,	Do. stable dung from Stamford, prile, 10s. per load.
THISTLETOJS,	Do.
THORP t,	Do. lime used by a few, at the rate of 80 busheis per acre.
TINWELL,	Do. a manure from Stamford.
TIXOVER,	Do. and lime.
UPPINGIIAM,	Do. do. and stable dung.
WING,	Yard dung 12 loads per acre, lime 15 quarters per acre!
WISSENDINE,	Do. paring and burning practised.
WEŢWELL,	Do. and a little sheep-folding.

With respect jto the management of manure in this county, it is as well conducted, generally speaking, as in many other parts; but I am of an opinion with the worthy Secretary of the Board of Agriculture, in his Essay on Manners (SEE NO. 10, BATH AGRICULTURAL SO-CIETY), that what has of late years become a practice,, is rather injurious than otherwise. By the *old* practice, more salts were retained in manure by carting it away, as the cattle, &c. made it, arid laying it on the land in its long state, aud ploughing it in, and when it is laid in the foldyard'

MANURES.

and no dung during that time, caused it to produce extraordinary good crops, viz. turn: >tatoes, and wheat—(Sec this fully described in my English Practice 3f Agriculture in [relaml, pagt i< plain, thai the*'wonderful increase in the manure arose from*the salts of the raw dun;: he earUi, and thus acting like yeast put to flour, and I its *strength* did not arise from the quanti* ter, but from the salts contained in the straw. 1 refer Ac reader to the ihini edition of the Bxp< I Farna Part I. Sect. 11, pages 173 to pap >iuposts are fully explained for every soil of land.

Town dung *hi* very mu Mid »f proved of more than yard dung. Its being generally =t kind of compost is one great reason of this composed of the scrapmgs $a \times f^{n} t^{s}$ of the Lc. which, of all other manures, are allowed to be ibt best by the London gardeners, who have a grea' >orttinity of judging of their merits than any oti < 4 men. These sweepings, &c. are be:>t when taken up after h nhowers of rain, which wathe channels, &c. and bijug down quantities of solutions urine, &c. which get mixed with tin- finely pounded soi the streets, and are liven Uid amongst stui a hill. The rains which fail do not wash this sort of town dung absorbs tin By carting this street dirt away from the towns at differ* times, different qualities are obt. and thus tue term st of compost is formed, in the same manner, as Lord Dundonald observes m his Treatise, thid t« t> sorts of flour make better breitd than one of them would mough with like quality.

MAXURES.

ird, by being continually trodden down, it became firm, ami did not lose so much of its virtues by exhalation; nor dill it ferment so much, or was there an opportunity for the sales to drain awjay from it so much as they now d». ly the *present* prat turning the manure in the foldyard, ur of cartii out and laying it in hill, although it is made sliort spreads better on the land; yet the first J of the manure is diby reason pf IIIL torning it, causing such a fermentation to come oh, 11 nt to tarry off by eva poration some of its utilitioui withbeing the cause of destroying the seeds of words, and tin tiler, by laying it up in ght slate, the the trate in such a manner, as to cany off much of i. :;th Copious and repeated discharge *ter*; md i lay t , to operate in **two** ways, in every suceeding rain i me, until, I i uu ubt, line-tenths of its viduable particlea are «! i eva->orated away. I hai be be invinced of this, by conversing wit! _____ the neighbourhood of London, on: the subject. They observe, that the dung nuulc use iif by them, of the best nature, for hot-beds, omes from thence in the little strength or re;d for any garden use. Now here, the manuie being junked round with earth, no **th can e** y: he gardeners agree with me, that I done the luse, from t eated necessary a mts, causing every tune a fre^h fermentation until its is it is entirely gone.

The black water which is thus drained away from manure, Ims been **frequently** tried on land, thinking it would answer as well, or **than dung;** but this has been found to **be far** from the fact. The **bite Mr. Dfitmmond** •**f Bawtry, in** Yorkshire, **tried** the **experiment with** OUCC

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MANURES.

ecss. 1 myself, before I got into the waj of making compost, carried my manure out of the yard, and having maoe 3 dunghill of it, had a grip cut round it with a d*« scent to a kind of reservoir at one end of the hill for this water to drain into, and then had it turown on that «ud, thinking I slioteld thereby prevent loss of strength in the manure; but I found, when the manure came to be laid on my land, that, on the contrary., the manure which me from that end of the hill, which I had thrown the water upon, was weaker than the other. I could not, I own, at that tiin« imagine the reason, but roy after expo m »cv has proved to me, that it was caused by the throwrug on the bfeck water, which made a fresh fermentation lalte place, awi of cour.su, took away strength, by another It therefore appears, that when once this exhalation. black water departs from the t]»«g, that it is like Mood let out of a vein, never to be applied again for the like purport it was- designed for while in its original state. Now having, it is hoped, sail used used the superiority of 11K; old pn clice over the new, let me not bethought to aprak in recommendation of it any further, than as naving that pri'ftren.- the method of making compost is so &jr superior, that I wish to imp ow every mind. OD tck to my fijfct edition of The Experienced Farmer, and to my Kamer's low in America, it 11 be found I atrou£ly retLuonMtnded the use of compost dung. Since that tiiufc, iiom a few cliemical ideas and actual experience in Ireland, 1 have had reason, still nwwc strongly, to 1 commend ihe making aud using compost. Fo» at Slane, from 100 bads of straw dang which had beeu but two months in imtUng with cattle, horses, and pigs, made up into a. ViH ut' couifwst, It carted oat S42 loads of compost, which being laid upon a piece of land worn out and «\hausted, by hai I tight successive crops taken from

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CHAP. VIIL

GRASS LAND.

SECT. 1.—MEADOWS.

THESE are chiefly upland; the only meadows which are flooded, being those by the side of the rivers Welland, Guash, and Calmose. Those by the side of the two last, are but little flooded, except hi heavy rains, when great quantities of water are collected in them, but the water goes off very quickly; the river. Wetland having but little fall, and the meadows being very flat by the side of it, the water goes off slowly, and continues so long upon the land it floods, that the pasturage is rendered unwholesome, and frequently rots the sheep; 'The average produce of bay is from one ton to one ton and a half per acre; the hay is seldom sold, but is stocked and fed in the fields, where it grew; this practice", where the land is wet, is a serious injury. For rents I refer the reader to the general table of rents, page 28, not having met with an instance Of a difference in rent betwixt the other parts of the farms and of land under this denomination worthy of record. The expense of mowing per acre is from 2s. 6d. to 2s. Qd. per acre; from about Is. 6d. to 2s. per acre for cocking, find for stacking, &c. from 6d. to Is. per acre, much of the hay being stacked in the meadow where it is grown; were it carted to any distance, the expense would be higher.

PASTURES.

here ler, but this depending entirely, upon distance, cannot be reduced to an average price : by these price3 it will pear, that from 4s. t)d. to o\$. Qd. per acre* is the price of niuwmgj making aiukstacking, or 5s- lid- per acre, on an average. The expense of ifiaking is not so hiah a* in many other parts, there nut being so hutch labour attending the process of hay-makily for I not being a cust to spread the gram about, but to let it fay in the swathe for some daya until it be partly dead, then to turn it and cock, it, and in some pajrts, after turning, to curt it imme-This practice is, in general, ceiwu ed, or at diately. least, vi quenil;, it would he well, ere this cejvsure was indulged, if the ho pass ii. Insider, Una by hay made thus, vi e E\TIBELY fatted, and arrive : it very great weights, not only in this county, but in ii parts of Lincolnshire. The whole art in making hay, is that the juices be retained m it, as much we, without making the 1 and making it mouldy; to attain this object, tirii the be given in the ni*rl to that it wither 1) quently, ti out a decided out out out has a decided preference over the other, as by spreai about, about, die vinnes are die iractedJ il by the suff and wind, and the expenses are much greater, lia and tome time in to be so much withered at the time it is taken from the ground, as to b^{*} ready to be put in the Idrge stack.

SECT II.—PASTURES.

THE management of grazing lands is much better understood in Lhis county thaw in many others. There is less ^ e / o f gras?, aud *ihc* ground is generally stocked with an r equal

PASTURES.

equal and proper proportion of cattle tnd sheep, with a small quantity of horses, so that the sort* of grass suitable to each of the different palates of those animals, arc all ken off; the thistles are mown; and most of the nrjinres af the richer quality are hobbed. This hist proceeding is in general, however done too late, it being done after the meadows are mown, or sometimes if wet weather should come during the time of mowing the hay crop, by way of convenient), sonic part is then hobbed. Thus it is as late as August ere the whole of this necessary work is done, by which time the grass, towards the roots, lias beci; red and putrid, and but of very lit Lie vroj th, with the further disadvantage, that the grass will not be rc-produced on those parts so readily, nor so thick as rt would have been had it been mown in the latter end of June or begin* ning of July. Thus time is not given for getting a proper covering of grass against winter, which it is highly necessary to do on all pastures for their preservation. At the time, however, that the hobbing or mowing these parts in the pasture ought to be done, I am aware, there i» much other business going on on a farm, such as turnip homing, mowing grass, making hay, &c. so that the CfMarjr process is obliged to be made more an act of conveiucncy llian inclination; for 1 was shewn a feeding pasture by Mr. Fludyer, where puit of it bad been hobbed, and the other noi; Mr. F. agreed with my observation, jjiat more fattening grass.was produced on that part which had been mown early in the summer, but said the other parts bad been neglected through the obligation of employing men in other occupations. Some pastures, however, in this county arc kept particularly neat indeed. It is ob-S that the proper time to mow or hob the rougk in ibe feeding pastures, is as early n the time when the meadows arc mown, as on that byst laid the
on those very rich spots grows very early in the spring, and by being neglected by the cattle, gets **trodden** down, and is thus liable to rot. It often happens too, tint in those rich **places,ibe** dung of cattle is encompassed and covered over by large tufts of grass; these tufts being re-, moved by the **scytHe**, the dung gets spread, the spot gets air, and sweetens, whilst the grass, which was refused **whilst** standing, getting into a state of hay, **erly** devoured by the cattle ; fur they **will even** eat thistles when got into this state. The average stoc* kept, is one ox and one sheep on two acres of land in summer,, and one sheep, or one sheep and a*half in winter.

It is the opinion of the graziers, on calculation, that from 40 to 50 etone of flesh is sent off per year, from an acre. There are no dairy grounds. The sheep pastures are various; but in summer, upon the bust breeding land, about 4 or 5 old and young sheep are kept per acre; ape! one beast to four acres; and in winter, about 1 & sheep per acre.

About one half of the grass land is good feeding land, the rest of an inferior quality, is used as store-land :* in general, the ground is healthy for sheep and cattle. The land has been almost all laid down with too i $"^{s} > "$ which means the furrows are frequently wet and unproductive, whilst the grass on the tops of the ridges is burnt up : tliis is an old bad custom, and it is a pity that it has not been corrected in the latest enclosed lordships. There ^ought 'to have been a small land gathered betwixt every laud when it was ploughed up, by which means, when laid down, the low part of the furrow would have been raised l'igher, and by the ridges having been ploughed down a ¹'ttle, this land would have been brought more to a level, aiitj caused the land to be easier to drain, as it would be drier, having two open furrows instead of one, R TLAND.] and U

take up their :ibode as much below the Mtrfitce as above it; the garth - dtust b<! dug out lower ilian the surface, thus leaving it rather hollow when the swain in initial of an initial for intention i, to destroy the at-hills, that if airs of the apts are left under the sward, they tvill soon raise another ty'H: however, to radia .en as possible, ti; of the part whence ti- hill must be chopped in title, and laid in the hollow; thus some good soil will he introduced into it for the sward to luy upou, and will improve the her **h** on Ac tops of those hills is generally of an inferior sort, and U very Jiiudi in need of some better soil. The ediles round anthills are in common composed of bett<: from the May in -which when depastured, lay against the hills, depositing- a great deal of dung. It is a good way to iiave the hills chopped into small pieces in a heap together, and de as tine as possible', so that when the earth produ from them comes to bespread, it may go into the seams betwixt tlie old sward, and that newly laid down, and make them join well together, [n the spring it should be harrowand iln'n bush-harrowed., and well rolled to press d all the lumps; then, if there be much earth, This process will revive the old plants, and mal. Wition to tlie sward by intermixing ender some es and clover amongst the old grasses. In some course of cut ip the hills totally, and burn them, which io some measure d betta as from the ashes being spread, the ^must be much benefited; but **although** many **of the** ants ^afe thus destroyed not totally; ami www tain on the places where those bills with and the $^{\rm U}P$ ^{^r}e«h hilb: and it will be a 1 are time ere any quiinhEv ⁰¹ good gr*sea spring up whence the hills were taken. It in geldiug tie aut-hilts the earth was mixed up wttMung, and

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and having less distance to drain. I do not, hy any n.enns, apj< ploughing *those* high ridges down all at (ftice, as thus all (be good soil would be thrown underraa'&i, causing die tups of the rid» vary poor, aiy!^{j1}o remain o for many yearsj mul not getting covered uhh grass at all for some time. The land is much over-run with ' ant-lulls: of late yea Itijf occupiers have, it is true, proceeded with great spirit in destroying the ant-hills, (here tailed banking the land) but still thitch remains to be done, both as to the qaannty and.the method.

Bunki&g is done in various \\a\s; hy some the ant-hills are cut up, and laid in the deep furrows, and oats and seeds sown, which should seem to be an improper method, on account of (he number of hills being more in one place than another, from which the water stands in w&t seasons, in such a manner, that where land is liable to rot sheep, it dangerous during the summer ; and by the water landing so long in winter, sometimes nearly the whole of that season, the grass, in process of lime, Lecomes a sort of water plant of an unkind nature, and possessed of no fattening qualities. Others lay the ant-hills on the ridges, and sow oats and seeds, which is a much Horse practice titan the other, as hy this means the ridges are raised higher than before; and us ant hills on clay land are of ten only a mass of chty oi' poor quality, a much better surface is covered up by them than they are composed of, which must be nearly lost to miy proper use for many years to come; and by being raised higher, will be more liable to be burnt up by the an miner's sun than befor t'elding of arrt-hills is a better process than either of Λ foregoing methods, **El** requently practiced in this county; this is done by paring the sviarth off, and thren taking the earth out of the hills. The swartfa should kc pared off carefully, as it is fo be laid down again, and as 17 q

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made into compost, and then spread on the land, this vould, I have no doubt, answer better than any of the methods I have here mentioned. Bu^in fact, all these method'are attended with great expense and slowi profit, therf ^e the most decided preference must be givep to paring and burning these kind of rough lands, worn, ouf by long continuance The kind of grass which grows on ant-hills is in grass. generally of a poor nature, neither fit for meadow nor pasture; and indeed the whole of the grass where ant-hills abouriH, is generally of an inferior kind, and overrun with mo9S; thus the land, under such circumstances, is but of little value: but when pared and burnt, and sown with rapes, wheat, beans, barley or oats, clover, wheat, garden peas, and after them rape? the same season, and then barley and seeds for pasture' or meadows, the straw front all those crops being carefully collected, made into compost, and applied to the land; then the tenant is amply repaid for his expense and labour, and the landlord much, very much benefited by the ameliorated state of the land. The tenant would from this course have been enured too to lay the land in sucfr a manner as to render it level and drier. Ι must confess I am a warm friend to enriching the tenant; for no improvement can be effected without money; and the land ought to be so managed, as to not only pay for its. improvements, but reward the *improver*. With an honest hope that encouragement may be held out to the tenant who has this spirit of improvement within him, I can safely affirm, that in my experience, I never knew a rich tenant impoverish a farm much, or a poor otie enrich or improve one.

There is si cow pasture at H amble ton for the cottagers, containing 114 acres, which is divided jnto 9 fe pastures> and let partly to farmers and cottagers, at 30s. *CSLOO*, yearly-

It is,jStockcit as follows: One cow, or four barren sheep, or t_i;noe ewes and lambs, from old May-day to old Micliaeliw.^day, and from old Michaelmas-duy to old Lady-day, wit! men* or 3 Unnba to each pasture. The land jiot stocked from old Lady-day to old May-day.

At Eglelon tlit; ottagers have a cow pasture, containing 35 acres, which L; stocked with SB cows, or four barren s»lieep, or three ewes and lambs, from old May-day to old Michaelmas-day j the remainder of the y'ear it is si and managed as at Hambleton. The price of a common, as it ia termed, is 11. IGs.

At Greetham the cottagers have a cow pasture, containing 67 acres, which is stocked with $\langle 2\$$ commons, at 30s. each. The land is stocked with cows from old May-day to Candlemas-day, and is not stocked for the remainder of *the year*. The cottagers have also from six *to* eight acres of arable land, which is in this slate, on account of its being too shallow of earth for pasture; on parts of which they cultivate sainfoin and clover for winter fodder.

At Hurley the cottagers *\i;i\c* two closes containing Iacres- each, which is divided into eight commons, each ground or close being mown alternately. There is a cottage hovel between the two grounds, which contains the eight COMJP; the stock kept here is eight cows and threesheep in the summer, and six sheep in winfer to each common; *us* under is a sketch of the hovel, which I • favoured with by Mr. Wilson, Lord Winchekea's Steward.



A Studd Partiliou between each Cow Place.

Several cottagers at Burley rent closes to **themelye The** (Mistotn of letting small **portions of** land to **labourers prevails** also, though in a les^degree ni the **parishes** of Empinghain, Ketlon, Laoghare, Lyndcii, **aod** V **sendine***

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gardens and orchards at North Luffenham are good.)akham has good gardens, but small orchards. The gaPens and orchards are small at all the remaining parishes in *£-Is county, excepting at Ryall, where there are eight $tole^{t}$ ably large gardens; and at Uppingham, where ther/is tint, very large orchard, containing 30 acres. AK Oakham three acres of ground «are yearly tak^u from the bean field in the occupation of farmers, and divided into 24 gardens, for the use of the labouring people, for which they each of them pay 5s. per year to the farmer from whom the land is taken. At Harnbietori; in like manner, a 3f acres close is divided into 14 gardens, and the like rent Half of this quantity being sown with barley, ancj paid. the other half with potatoes.

CHAP. IX.

GARDENS AND ORCHARDS.

AT Ayston there are several small gardens an!! orchards. At Asbwell, Barrowden, Barleythorpe, and Bekon, there is but o! til garden in each parish. The gardens and orchards are very large at Bishbrooke, where there is alsu a cherry holt of thirty acres. The gindens arid orchards are very small at Barrow, Brainiston, Bridge Casterion and Brooke. There ai d gardens at Burley, but bad orchards, being a place very badly supplied with fruit of its own production. The gardens and orchards are small at Caldecot, Ciipaham, Cottesmore, I Stoke and Editbweston, The gardens and nrcha. good at Bgleton, but very small at the following pla Empiugham, >dine, Exton, Fliltori*, Glay^ton Greetfaam, llambleton, Gunthorpe and Ketton. At nghani the gardens are nmall, but the orchards are large .ud very old. Little dftterton, Leuiields, Lyddington, Manton, Market Overtpn, and Martinsdior LynSki, have 'all or' them gardens and orchards, but small. At Mortal, though Hi. are/small, vet the orchards *»;£». ;anton, the gard£ik here are small. I he gardiens 21 15

CHAR X.

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WOODS, &c.

FOR the following account of Earl Winchelsca's woods I am indebted to his lordship's steward, Mr. Wilson, lo whom I am also very much obliged for much, **other** valuable information.

The woods are divided into fifteen years' rounds; thus one-fifteenth part is felled every year; the oak timber is cut in April and May, and sold to. farmers and tradesmen. This year, 1806, the average price was from 2s. 6d. to 2s. 9d. a cubic foot, exclusive of all other expenses. The bark 's sold to tanners by the cubic yard, or 20 yards to the load; price 101. per load; peeling, stacking, &c. paid by the purchasers; a load weighs from. 30 to 35 cwt. The underwood is cut in November and December, or as soou as the leaf is off, and sold to farmers for hedging, 8cc. the average price being from 61. to 81. per acre.'

Oak timber is not much raised in this county, and there is but little fit for the navy. The best sort is used for building; the "coarser sort, which is not used for fences, &c. is made into gates, hurdles, &c. and sold at Peterbro' and Spalding fairs, and carried into the fen country. Planting of oak should be more attended *to*, as it thrives well 'K most parts of the county ;/tfnaking plantations in **the** corners of fields, where the a/>jles are acute, would be

WOODS, &C.

be a great ornament, as well as advantageous to an elitate. and done at a small expense. This is ;i desirable improvement, as a trading country like Britain will always ".'5ni timber, and the consumption of ic iv time of wa/-'is so great, that it is not only the interest, but the auV» of tfemen of fortune to promote the grc vth of it. Un ood is cut from 12 to i years' grow Ji; all underwood should, as is practised in Karl Winas soon as the leaf is oft', ami not more them four inches above the ground, which would greatly invigorate the spring shoots; and I am of opinion that wood so cut and managed, in the course of twelve years, will nut mure by C pounds re than if cat hi^h. Drain woods is another improvement; much benefit would arise by king open grips to carry off the water, which should be opened every third year at furthest. Jn planting of oak for limber there should be aoi; of quick growing ^ood planted amongsfot Forest trees of different MI as larch, beech, birch, &c, and a sallows, alder, &c, which latter are most preferably as they will grow again when cut; also a quantity of black-thorns, ba &c. Black-thorns are a -etui underwood, I think them the best of any other for putting into under-drains. The forest trees are very ornamental, and assist from their shade in promoting the growth of oaks; but the ash, lows, &r\ do this "also, and arc intjuitely more profitable. When acorns fall it may be observed in our woods, that there is a succession *of young oaks, even in greater abundance than ate wanted; and as an oak tree \ inch room to make large timber, ten yards asunder at the planting will be found to be near enough; then by the time it will be proper to cut any of the oaks, wl ich will be when they have W a size as to wa. t room by cutting dov j other oak, there will be a jrop

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WOODS, &C.

to" of twenty yards for the **remaining** oaks, nnd w the* are filled, the shoots produced from the oaks which war*tint cut will give another sw of oak timber; am! these second growths of oak are cut for timber, there will Vⁱ anotW succession from the self sown ones, thus **cootiniiing** ii, even *io» for ever. rl will befit to cut in ten years.) from the time they were plauted, for poles for some uses; this sort of timber grow* much quicker after having Ueen cut than it does from the The thicker woods are the quicker the tree, seedling. grow, ami stnughter, which may be more particularly observed in ashes growing from the stool, which, if not shaded from the windi, arc apt to be split off, and, if not, generally -row crooked. 1 should, the recommend planting « as thick as possible with black-thorns, hm rabeara, &c &c. accordingly as they are respectively adapted'to the soil. & thrive well on both wet and dry soils; they nv -wing in Derbyshire on the side* of rock there is but little, or indeed almost no soil. Whilst speaking of Umber I must observe, that there is in general a great neglect in the late enclosures of planting timber in the hedge-rows; this 1 must consider as a fatal and grievous neglect, though I know there are many of the opposite opinion, especially the tenantry, it being a received idea, that timber tree, m the hedge "rows injure the crops. I agree that a man caanot have his cake and eat his cake; and 1 cesare suffered in the hedge-rows to overhang very much, that there may be some loss, but elms or wych are a kind of trees which, if properly trimmed whilst young, will not overhang much- But admitting that oaks, ash; and elm, were planted in the rows, and penned to branch out and overling the crops, I am of inion that the service hYJilhey will be of, in sl.adi corn from the coKl harsh.

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harsh winds, will more than compensate for the inury. I have particularly <ft>served where intryis well fcmbered* that it does -not only give it a fertile appear? foe, but the count Ay is so, and in very barren cour. Vies, wlujre sjiuill eiu! been long formed, Delano always the most ferti] ! we may filther observe, that in a garden the most shelterul places aib chosen for plants at cert, in second [] is a second u to believe that •where land is wtil enclosed by ;;ood thorn-hedges, with timber trees in this the soil is made more fertile, and that were any given number of ; is to ic enclosed in fields of from 10 to 13, or 10 acres, with those shadowy fences, and u like quantity of acres, of like quality, but only enclosed by po*t and • that the part which bad the shady fences would, in pn set of the befar superior to the other in fertility; and although there should be some loss in produce by the sides of those fences, that the middle parts or the iickb would, by their produce, more than compensate for such partial loss, which would be owing to the shade and warmth produced by the fencej, J am also of opinion, that the new Mould partly be prevented by the icures, from an instance which I noticed in a crop of wheat of my I^ord VN inchel which was Affected by the mildew; there being on the west side a plantation, it was clearly discoverable to the exact distition which the sun was prevented shining upon it, that the wheat looked much whiter, ami was not so much affected by the mildew. There were several large ash trees in the east side, and us far as their shade extended, the same effects were very visible. These circumstances corroborate with my former ideas on the mildew., (Experienced Farmer, .'id. edit, Sect. 1.2. p. 224 to 246) and give in idea why rye sown amongst, theat has been a means of reidering

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woods, &c.

it loss affected by the mildow, or why rivet, or bearded wbsat, Sec. is not so liable to that malady.

w supposing those new enclosures t≫ have had timplanted in the hedge i in many of ih< m l j^t too late, in every 's, planting the trees :tt ttiu yards fron / each other, there would have been 88 trees; and supposing those trees, at any given timo, as this must depend on ihe soil, say 50 years, to be won . that would be £440 on the 1 t, making

would ry beneficial; and was an allowance.

ten acres of land; thus the cbna ere, on ! be vc to be made by the landlord for the spites taken up by the trees, he Would be amply repaid in the end, but for this there is no occasion, %rtbi idy given. It may be n the trees come to be felled, :i objected, t! is made in 1 es, but this will be ol planting the Uthe fence ; but ev should there be a weak place in the fence, or a breach made, it is a very easy matt' oake it up when the hedge is plashed—SEE PLASHING, AND SETTING CJUICKS, fully explained in Tlie Exp< I Fanner, -; and in pagi parti, page 4 to 43,3d edition. Whi ing the county of Btitkinghan[^] I saw one elm tree, which grew in the hern the Earl of Chesterfield's estate, which sold i hed to

ascertain the length of time 4 had been growing, hut could not; however, from many subsequent inquiries, I find that from the quick growth *of* elms, it is seldom found that they flourish more than fifty years, when they generally go to decay. I was always friendly to planting in the hedge-rows, and this circumstance made me turn my

mind' more fully to the subject^ and makes me more to impress it on the n^ijds of land-owners. L highly

highly recommend elms where the soil is congenial; but where the soil is not good, ash should be planteai as should they not prosper as timber trees, they will be found valuable cut as pollards; after being once cutrthey quickly throw out young shoots, which become ,ifery useful farmer's wood for hurdles, rails, fences, &c. &c. and in time, may nearly be as profitable as a timber. It is to be remarked, that ash and elm seldom want replanting, for by the time the original trees are felled there is generally a succession of young trees sufficient, with care, to replace them. There ought to be the greatest attention, on enclosures taking place, paid to planting, there being no soil but what may be planted with some kind of trees to advantage: willows on boggy or peat soils, or in small wet places, which are often to be met with at the corners, &c. of fields, are very profitable : birch for brooms, on some land, would be found very advantageous. I do not recommend Scotch firs, larch, Sec. nor any trees but will grow out of the stools, and plant themselves in hedges, as they want replanting, when the old trees arc felled, and have more of ornament than use in them.

CHAN

CHLVP. XI-

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WASiTES.

TO the honour of this county, 1 have to observe, with the greatest satisfaction, ihat there it* no land in it which an be thus denominated.



CHAP. XIL

IMPROVEMENT^.

SECT. I. __DRAINING.

THERE is but little draining done in this county; where it has been done, which is chiefly upon red land, il has been attended with the greatest advantages. There is much land which appears to need draining. The methods of draining are for small depths; the shoulder drain by triangular stones; and for greater depths, walls on the sides' covered by flat stones. There are many soils consisting of a tenacious, stringy clay, where there are no spring:¹, and .the water is collected in ponds; on such it must be obvious, that open drains must be made with proper falls to *hose reservoirs ; but what drains I saw of this description, were neither wide enough, deep enough, nor in sufficient numbers. On other parts of the county, Vhich are very springy, underdrains being the cheapest and best, must be had recourse to, and should, if possible, be filled in The drains which are made in low or with black thorns. spungy places, for carrying off the water, are generally In many places which feel the want much too shallow. of ponds, rivulets, or> waterings, a remedy might be found for the inconvenience', by draining the sides of the side which are, in general ft JI of water; thus a supply of water amp})

umply' large for all purposes, would be obtained, at the same 'time, that a very great improvement would be effected, iv laying the land dry below those springs. SEE DRAINING LAND. Exped. Farmer. Ed. Sd. Vol. 1. page 56 to page 11?.

SECT. II.—PARING AND BURNING.

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THIS is a practice but little used in this comity; where it is, it i& chiefly upon cold soils, where the land is coarse and over-run with hassocks, and is of infinite service to this sort of land, if only ploughed as directed- under what I, have written on Banking, page 98, and then laid to grass: but it too often happens that such lands and the manure not returned until they are quite exhausted, and are then laid down in a^r very foul, poor, weak state. All lands which are thus pared and burnt, should also be drained, which would tend much to their improvement. The price for paiing and burning is from 20s. to 25s. per acre. In this process, great caution ought to be taken in making the hills small, and spreading the ashes whilst hot, which is of essential use to the land. For paring and burning—Set 3d. Edition of Exped, Farmer, Vol. I. sect. 7, page *13 to p. 142.

SECT, III.—MANURING.

I OBSERVED, no improvements AON this head in the county; and my opinion as to wha'is necessary for this desirable purpose, is already given ,*i* der the head MA - ***r.s. page 88*

JUTLAND.]

«KCT.

IRRIGATION.

SECT. IV----IRRIGATION.

.As this practice has long beeu held up as very advantageous, I am aware, that 1 tread on tender ground when F \eiiturc to assert, that the contrary has been generally proved to be the case; though I assert this from experi-<< nee, could I not bring forward fact in support of my assertion, I believe I might not have ventured it. The system has been pursued by a gentleman in this county, of the first respectability, in a most correct manner; he has now discontinued the practice. The following is an .extract from a letter with which he was so obliging as to favour me since my departure fiom Rutland : " In my opinion " M atering renders the quality of die herbage and the land " the worse for the process. Where land is tolerably pro** " ductive, and in a situation where a quantity of grass food " is not required, I should certainly not advise it: Lthink " the land may be turned*" better account without it. " But 1 think there are many situations, particularly 011 " gravel, sand, or open soils, where it may be vgry advan-" tugeous; the produce, by such means, is certainly much " increased, and, in some instances, rendered larger when J! very little otherwise would be produced/' Though the produce i* encrea&ed, yet it becomes in time, in a few years, of so coarse a nature, and mixed with rushes and water plants, that cattle frequently refuse to cat it, and when it is eaten, the appearance of the cattle proclaims it far from being ef a nutritious nature. I was formerly an advocate for irrigation, and am still on such soils as aredescribed in the above extract; but having had since opportunities of viewing several water meadows which have been of long standi?"*, which have operated to the disadvantage of both thcf\}erbage and the land, I hiVe beeu obliged, in a great t i isure, to alter my opinion.

CHAP.



Lea fields	Mixed	40	40	170	250
little Cast*rton	Do	122	14	10	135
Lyddmgton	Do	80	30	40	150
,	Do	50		300 50	400
Mnnton	Do	30	20	The second second second	50
Markei Overton	Do	50	50	000	100 21.0
athe	Do	5	Contraction of the local division of the loc	200 5	210
Morcot	Long horned	40	40		00
NY/	and short horned, very large	50	50	50	150
Wormara $n \bullet$:	coins.	50			0.0
• h Luficnham	Mixed ' « • • •	60	30		90
i.am	Do	146 -		States State States	146
12 miles	Do. · ·	25	20		45
	-Do	• 20	20	NAME OF TAXABLE PARTY AND DESCRIPTION OF TAXABLE PARTY.	40
T* res ton.	Do	40	20	20	00
Ridlington	J fixaJ, esct-: * a ftw Yorl <shi re<="" td=""><td>26</td><td></td><td>30</td><td>mo</td></shi>	26		30	mo
ftyall	Mixed . • •	50	50 00	AND COLUMN PARAMETERS	110
Sen Ion	Do	80	30 90		200
South Luffenliam	Do	30	2/4	CONTRACTOR AND ADDRESS	42
itretton,	JDo	50	3 (4	1 Contraction	80
Tti.	Do	50	20	the second day where the	2U 10
Tickencote	D o		10		_^13
Tnistteton	Do	25	10		- 45 CO
Thorpu	D a	-0	10	10	50
Unwell .	Do * • » •	20	20	10	10
Tixover .	Do	100	20		120
Uppingh .	Long horned .	24	20		38
Wardlej	. Do	24	14	15	71
Wing	Mixed	20	20	13	112
Winnoudine +	D o . •	28	6	1	34
Witwell	Da	20		I I CANTER STREET	
	ТОТА	2729	1244 T00]	27751 332,	7" SO

This 19 not much of a breeding county, and those cattle vInch are reared, are of no particular breed; in general lather inferior A few of **Bakewelft** breed of long horns, and tome of the Devonshire breed have been introduced by Earl Winchelsea, who rears them. The cows give but little milk, (but very rich) they run so much to beef. H» lordship agreed with me in opinion, that six Yorkshire cows would give ; **h** milk as fifteen which **his** lordship now has. Many or' the calves which are bred in the county are sold fat to the butcher, and are chiefly fed by cottagers; tin: vedl is esteemed very good. Dairies are I except for family use; grazing is the principal object. The cattle, most iu request, are the Irish an,] small Scotch. The Irish huve not been long known in the county; but arc now bought in preference to the Weld., Shropshne, and large Scotch, which were formerly grazed here. The graziera say the Irish are cheap in comparison with the others; they vary much, some being good, others very inferior; they are'all long horned, and have been much nnprovedby bulls sent to Ireland from Leicestershire. In general they are, after one-sunum », sent to London, stall feeding not-being much practised. Hay il Bometi mes given to some of the best to keep them till after Cbristing So "« barren cows are grazed, and some long, and a few short horned heifers of the Durham breed are bought in at two years old; and when three years cW, are sold in calf to jobbers, who take them to the duir>Y^{ounties, or t0 London>} gre;sL many of the cattle grazed here, appear to be collated from many other counties, few of the pastures be-**Btocked** with one regular set or breed of cattle, but insisting of some Irish, some Lincolnshire, some Scotch* and some Welch.

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county of LfilKokij large plain cuttle arc preferred, and in hire, compact; handsome ones. However, though in general in Rutland, there is an inferior assortment of fattening cattle, there niv mam the mtrary. Lord Wiiichelsca ha* a v >mplcle stt of Devon oxen, fattening; also of milch cows and bi stock. Mr. Fludyer had some very hautfrotne Scotcb oxun, of a proper size, being about 50 stone^, of 14 lb. to atone. Mr. Godfrey had some very good long horned sLem, of the Craven or Lancaslw 1. Mr. G. made a very proper observalion on that kind of cattle not fattening so well 98 they used to do, In I, tli;it they used,

when. they drew oxen in this comity, to buy them in young*;r, and keep them to be about two years older. I agree exactly with Mr. G.; and it may further be obved, that ON en which have been worked, on com in j

fattened and rest from labour, are more pointy, not having so much of the bull about them, or so eo;trs' whilst fatteniug, they rest much more quietly in the pasture; and from their flesh beinji reduced by labour when ihey come to be fattened, their flesh is all new; and I have glwtyi observed, that animals which were very poor and quickly fattened, are always more juicy and marbled in their flesh, than animals which have been in a fat state for any length of time. This observation makes in favour of draw ing oxen, which i* also atta dtd with great advantage in the harrowing in lea or *swnrj* land crops, which brings me to working oxen. There are but ten oxen kept for tins purpose in the whole county, and those by Earl Wincheljira. J was informed by one gentleman in the county, that •he had made an attempt at using oxen; but that his men were so averse to the iilan, 1 ^ave it tip, sooner than havetbe trouble of *bh*^*ilchr*. into it. Th& farms being generally small, is the reason why oxen arc not u*e.d

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as the cmipiei of **Buch** farms must employ a light of Worses foe the cultivation of them, there not being that economy JI. u sei on small farms., as on I and one i for as to the general part of ploughing and hari of the there is not a doubt but tUat bjwaes are Oie most proper; but when farms are of such a size us to require I > be kept for sundry od«i jobs, gu. »nd bave but work for t>vu or three h ill* day, or two or three dajn in P w it is then obvious, that oxen would be much more pro as they would do that business, be kept at a much i rule, and improve for Kit pit ar or tu«j dim *i»jf would keep eartUHg .1 little, awl save the ense of b ing horses, which "inst otherwise be kells and be a Tou" tinual expense. I do not thttik tlitro U any wving at all, where a farmer keeps nothing but 6ten W do the • a farm; for as they certainly do less work in any 11 A partial lime than horses, the labour coin-. **oxen** would hove very useful at V_{-} times and sea,ous, such as secilime, S.L. Sec. The use of OKen would he found particularly bendiciarin harruwhi seed, up 1 laud, or old. sward, With a larg ow and from the pressute of then" feet ow the land, wopld be found far preferable to rollwg. Many second and the county of Lin.:t.ln, my subject was very partial to obe the there used them for ploughing, but thu'.v alv avere mod W harrowiu- m seed, with =.-uy heavy o* hanow, wlueli seemed a vory upproper implement, bemg^muchJisui,.^ could lii to get the diet, see off tlj0 teeth ; and went in a slow sliding manner, that woring al all, as it U termed. I really at tint time thought the metl'od a highly improper one, ai HM still have heeii pi t»» same opmion, had 1 u-t with several the ";lilu" of so »»«ny crops on soil, exactly vmil stately. I then began .^ recollect that my fal¹ fuiledi Ulltl llir

seen the great use of treading land, whilst on my survey of this county especially, I was thoroughly convinced of the great utility of the system which I had till then nearly de-My father used to be very particular in having his spised. land ploughed in small square furrows; and then on the land being sown, had it harrowed in by this large harrow, with four or six oxen and a horse to drof? it; by this means. the land was trodden so firm, that none of the furrows laid hollow; from the slow manner the harrow went along, it did not lift up the furrows and bury the seed under them, as the woHfing harrows too' frequently do. I have often seen crops fail on tough sward land, when ploughed up and harrowed cross-way, and must confess, as the eartli seemed to be HO well pulverised by so duing, 1 have often; •wonder the working harrow ratchii; the edges of the sward, and letting the seed underneath it, where it must Ay decay. Another advantage to be derived from thus employing oxen, is that foal or two might be bred from some of die mares lept for the use of the plough, at the time the oxen could do the business of the (arm, which might have occasion to be done at, that season, until the foal was old enough for the mare to go to work again; this was also practised by my father. The keeping of our oxen did not cost us one penny, as they eat straw i» the winter, and in summer were depastured amongst the c\ve< Mid lambs; and we certainly kept fewer horses, ami asei less corn tb*n we must have donej had all the work on the farm been done by horses, as the oxen were used for carting hay, dung, wood, &c, &c. Our -oxen were regularly broke in when they were two mold, worked two, years, and made f.U at five years old. 1 saw **nimyy** instances during my survey, whet might have been i thus/osed to very great advantage indeed, i have dwelt this longer - on this subject, for the realise consider-

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consideration of the necessity of avoiding, on a large farm, the extreme of using either all horses or **all** oxen ; and the advantages to be derived from the partial use of the latter*

Having seen the general stock of the breeders and gi ziers in this county, and thinking the cattle to be very deficient in quality for the land they were grazed upon, and thinking it to be not only my duty to collect all the information I could for the consideration of the Honourable Board of Agriculture; but to extend that information as much as possible, that it might, through the medium of that honourable Board, be extended to the general improvement of the breed of cattle in the county of KutJand, thus tend to the national advantage. With this view, I made a tour into Leicestershire, extending it into Derbyshire, examining all the breeds of the best long homed cattle I could mid in those two counties, as they are some of the best breeders oi' that kind of stock there, that are to be found in the united kingdoms. From the zeal which I, almost in every part of this county, discovered in the breeders for an improvement of their cattle, I certainly entered with greater spirit into the endeavour to make my opinion as perfect as possible, by combining my own ideas, with the judgment and ideas of *c men* V such ability as breeders as the following : Mr. Astley, Mr. Prinseps, Mr. Mundays, Mr. Knowles, Mr. Wrights, Mr. Honcyburn, and Mr. Coke, and several ^others, hoping thereby so to mature my own judgment as'\o be enabled to speak more decisively and correctly of the. best means of improving &e stock in the county. The grand object here, owing to the nature of the land aud the distance from London, was to procure that kind of stock while should come < U.ci and torVrfectiou, being well convinced that long horned cattle irt the most adapted to this end,' 1 therefore pursued the track for them I have above mentioned. From the i aw of

of Mr. Muiidiiy* cattle, 1 Inve to observe they arc truly complete, though not large, yet Mich as 1 have for a long time thought the best, from tl*eir aptitude to fatten more quickly :tt all ages. The strong -of of the perfection of Mr. Mum! ule, is from his large park bt iii£ near to Derby; for the couveniency of the iuhabitarj of, takes in from 50 to &> cows, and amoagat this great number, there was not one amongst ihun which had the appearance of being in, what may be termed, a fattening condition, whilst those of Mr. If. were all thriving, and greater part fat. This was the most convincing proof of their value, the other cows being of a great variety of breeds. I was al*o shewn a cow of Mr. MV which had given 14 Jb. of butter per week, which in a cow of her great inclination to fatten[^] was very astonishing; but I urn ef opinion, from ihe latter circtmtatance, that the cow could uot continue to do if for any length of time. The cattle which I saw at Mr, Priusep's are very large, and certainly very superior to any other I saw, being remarkably long, noble, and grand beyond conception; some of ihe cows belonging to the dairy must weigh from 80 to QQ stone, 14 Ib. to the stone, which has astonished me more than any tiling I ever sVv. To substantiate the merits of Mr. Prinsep's cattle, and to shew that 1 am not singular in my opinion of them, I have only to say, that he has refused 500 guineas for a two year o i bull, and loOO guineas for Ihe use of his best bull to ?*) cows. The breed is originally that of Mr. Fen wick, of Westmoreland, from whose stock, in the curly part of my time, I bought a bull; and so strongly do Mr. Prinsep's cattle retain the features, that I challenged them, which caused Mr. P. to inform me from whence he had ti?e breerl. The first calf which tin? bull (I bove-men*ioned as having bought) gut, happening a misfortune, was obliged to be slaughtered when under

under two years old, and sold in weights to differ ful propie, rmd produced 45 stune J lb. of meat, 14 lb. to the stone. I only make this remark, to shew that Wee is pretty sure to got like, and what may be done by care and attention. Mr. Prtnsep told me lie had received great bi-ntiit from a bull of Mr. Fowler's breed. Mr. Astley's stock posed, in size and perfection, to be between Mr. Monday's and Mr. Prin^pV. At Mr. KnowWa I «:. O a good dairy of cows, and a very good bull Mr. Wright's a good dairy of _____, and some \cry promising young bulls. Mr. Honeybitrn shewed me what 1 think a very good bull. Mr. Cox shewed me a very good dairy of cows, and a very fat prize bull, which is to be killed about Christmas against a Hereford bull. Having thus briefly related what I saw in those counties. I now come to give my opinion upon what cross 1 should recoronumit to the bre ders of this county, wliich u in favour of the long horned bull and Yorkshire cow, which from different trials and experiments, I know to be inferior to none, except it be the cross of the long homed bull and ford cow* Which from coming to perfect; on source than the Yorkshire cow, is on that ^count preferable; the Yorkshire kind, cither oxen or COM, require the fire title and the at perfection, so ; at the learned COM would be more advantageous; but-as it would be much more expension as a general improvement, the tir't must hen Pace. But even the long hoi and build introduced . thi* county, and no particular alteration in the cows, would be attended with Idvantages beyon (c»lculati those breeders who wish to atten Ao profit, the Yorkshire .--- will be far preferable; and ^ the choice of ilicm. I should advise particular attention 11 be paid to nulk, and «ven to have some form given up m them to this very pro. "the article. It would suit the df« « Impanii vei7 vve"

veil to buy in Yorkshire heifers; and after taking two or three calves, fatten them, and buy in fresh ones. If a per-Kon wished to establish a breed, it would be proper to put the offspring of the short honied cow and the long horned bull to a short horned hull, if he wished to keep up size and milk; but to the long horned bull, if for flesh and early proof. I am inclined to think, that a large animal, with an aptitude to fatten, will, on fair kcepj*be as soon fattened as one of a much smaller size; for either Mr. Munclaysj' or Mr, Astlcy's .cows, were, I think, as well kept as Mr, Priasep Mr. Toinlin of Edithweston sh me a polled Yorkshire cow, of a much larger size than any I had seen in Rutland, and she was, though she had been milked during the summer, much fatter thtin any 1 had seen, -and the land certainly not so good. JSow, though *i* am of opinion that animals ought to be chosen according to the strength of the land, especially where it is of $a \xrightarrow{*} d$ quality; yet I have met with many instances on land of bat middling quality, where a large animal inclined to fatten will improve as much, and in as little time res a Smaller one; of which this cow is a proof, and corroborates with what I have above stated. I ;im*>f opinion, that the large Durham ox did riot eat more food to raise him to that enormous size, than some others would to bring them to haif the size or weight at the same age. Nor*is it at all probable, that Mr. Lambert of I jicester, who arrived at such an astonishing weight, had-teaten more food than Powell the celebrated pedestrian, who was a very thin man. From these observations, the natural conclusion is, that an animal for the shambles n seldom too large if he has an aptitude to fatten, and thatunuch depends on the constitution of an animal in this **cesptfet**, **In** ray journey in Leicestershire I saw fin ox, the proncrty of T\ M. Phillips, Esq. ol Garendon, of the following dimensions;

Height

Height on the shoulder	IG hands]£ inch.
Length from nose end to tail end	. 10 feet 6* inches.
Ditto from top of head to tail,	. 8 feet 11 inches.
Girth	.10 feet $3 \setminus$ inches.
Breadth across the loins	2 feet 11 iucli
Ditto across the chest	3 feet 3 iuches.
Width between the fore legs	1 foot 94 inches.
Girth of the foVe leg « .	^ inch.

N*e.—On holding down his head, he measured 9 fel 10 inches from head to tail.

This ox was bred by T. M. Phillips, Esq. got by a bul of Mr. Honeyburn's, of the long horned Leicester kind, out of a short horned cow of the Yorkshire breed.—Aged aix years; his computed weight £4 score per quarter; never had any corn, oil, cake, or cabbage; was stall-fed the last year on tares and grass in part, hut chiefly with ha> a coarse quality.

tsci

PariJihi *.	Breed I.	Woo!. t'ieeces to a Tu4d.	oid Sheep. No	Ho.	Total.
Ashwtll	New Leicesters	4 to 5	25>0	856	343 ij
<ayston *<="" td=""><td>Mr. Fladyer 210 new Leicester*, remainder inivfJ</td><td>4</td><td>800</td><td>250</td><td>1050</td></ayston>	Mr. Fladyer 210 new Leicester*, remainder inivfJ	4	800	250	1050
Barleytliorpe	Mr. Hand's new LeiceslctE, oUierB mixed	4 to 5	1-i00	600	SOW
D 1 ·	Mixed , , , , ,	B	ao	400	1200
Bel ton ,	Old and new J [^] ict-strirs	4	ann	300	1000
D'11 1		Mr. Grefen's 1	20.)	m	500
B11hbrooke	M1xed . : , . ,•?		30;)	u	500
Dridge Cesterlen ". A		others 5. A	560	240	000
Droupston		5 10 0	650	350	1000
braunston ,		5	1000	500	1500
lun Ibu	Var Larie stars	4	1000	1000	4000.
I)V.	O I d D o	т Д	\$000 1000	500	1300
Clister	Vired	5 to 6	1000	SOO	1 jf
Coitnemoted	Lincolasand LeicAsteri	4 to 5	124(>	6:0	1860
Dry Stoke	$D \circ I X >$	4	1500	500	0000
lidithwesUm	N*>w Leicesters	4	ISO'']	- 500	6000
Kgleton -	Old Leicciler [^] und Uocohn.	4	1300	500	iaoo
	c	Mr.Symnlialf)	1000	1000	12000
Euipinglmm	Do. Do. •<	3 and half 4. >	1300	70*1	2001
1 8	the second way to a second	others 41 to 5.)	1000		See.
EssFndine .	Mixed	5 t» 6	5f>0	300	600
Fxton,	Do	4	^00	300	800
l'liti'jris	Do » . •	5	250	150	400
Glaj'slOtt	Old T^i^ester*	4 to 5	1000	\$50	1330
Creetttacn .	New Do. * • . * >		too	400	1000

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Ganthorpo Handideton Katao Langbam Handide Handide Handide Handide Handide Handide Handide Market Oreston Market Oreston Market Directon Market Directon Marke	DM i Breed Do. Vow Leicester* atid Linootns Ag tfew Leiofsiers Jli Do. Do. new Do. Lincoln a iid Leicesiers • rs • rs • hoproved of, new ^o. 01 c horned	5 m 6 5 m 6 4 u 5 4 u 5 4 u 5 4 u 5 4 u 5 5 m 6 5 m 7 5 m 6 5 m 7 5 m 6 5 m 7 5 m 6 6 m 7 7 m 7 5	4TOO 1000 t».i0]£0U 600 2JU0 1100 1*210 800 Ho 200 500 iann e fi 10	200 lono <i>4i)(i</i> Si- 60ft SW 80ti 600 CUI 2t)0 11 n i^ 1 4' ti *! ;; fi	800 3000 1400, 1000 SOPO BOD 3300 H.\0 181« 18U0 1000 240 300 700 17 OH 1180 1400 i&od 1120 500
Ryall Senton South Luilenham	New and one Lancehera Nitzed Do, and some horned		1: P	ti »I ;;; ^f i	1400 1120 500
Streitoa .	S Lincella, Laiceller, and ftw South Day. 115	ih Downs I_t others 4. S	:00 •00	600 6C=0	1800 300*'
Tickencote	New Leinesters	Mr. "Wmgi (his tenants T 5 1 3	70L	2'Ji	900
	Curried	rd	49,050	20,416	70 0-1*5

		A DECEMBER OF THE OWNER		Wool.	Old	1000	1
	Parishes*	Breeds,		Fleeces to a <i>Todd</i> ,	Sheep, No	No.	Total.
and a stand of the	D. Tim* Tixi iley . ell	Mixed Do. Do. New Leicester^ Do. Lincoln and Leicester^ Do. Mb	Brought forward	$ \begin{array}{r} 5\\5\\4\\4\\4\\4\\to 5\end{array} \end{array} $	800 1200 400 1000 800 3000	20,416 Ht0 40CJ Lio 400 SJ00 300 I000 150	70,t>46 1000 400n
		1.162	Grand Total , ,		37.33C	23,310	81,146

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SHEEP.

The sheep are nearly all of the polled loi-g woll kind; in the open fields they are vf a vn \ i: _____ nd little pains taken about (hem. In the enclosures more attention has been paid. The breed is of the old ai but in that part of the com, r Lraccon, the Lincoln iireed, with a cross of new later, prevails. may be called th£ usual pjic< partial to the new Leicester, and most have been ad them in their stock. The reason are igned for not liking the entire breed is, that it does not produce so much wool as the old Leicester. This is well tmthi lodfrey, of Wardley, who is a very context good graders and has been in the habits of Uuyiug the best year old sheep that could be met with at the fairs in t) the country : he shewed me his todd bills for the last ® years; and, by way of substantiating tht; actual doc? «se in tin doc ? «se in tin woo), he permitted me to take a: account of two yi ight of wool 10 years ago; and for the bat ty. • years he has sold his wool.

Mr. Godfrey's Todd Bill.





By the above account it appears, thrt wool has uearly declined in weight one-fourth; some people observe, in fiivour of light woo[^] that more mon^{*} i itai ned for it; be tins as it may, I am of opinion, that the sheep in this county are smaller than they ought to be. The largest p I saw in it were by far the fattest; ami 1 have, with ry few exceptions, in all other parts, from what I could learn too, the Biteep have not only declined in weight of wool, but of carcase too, and this, though the land has beeu particularly improved for sheep. The fat sheep are sold at London, and at Melton Mowbray to go north. They are sold"at two years old from turnips, and two years and a half from grass . Yeary few being sheared three times. Folding i *m* practiced, except in the open fields. Some rarmiirs £ivo i me straw, and some no-The lambs are generally dropped in thing with turnips. March and April, and weaned in September. Few fat Iambs sold. The sheep are sibject to a disease called the foot-hall; paring thi dia nd applying butter of antimony is the remedy. Wi< re there are a number of flies, the new Leicestei much from them. Sheep of Uus breeding mutimes nearly ruined by them, win p, though m tfie same field, • >t at all affected.

Generally speaking, the in this county an ior, according to their food, being small in size, light

of

SHEEP:

of flesh and of wool, and the latter of an improper soft, short and mossy;, they are generally short in the carease, their form in matiy instances, in otiler respects, being very improper; frog-eyed, very thin skin an llieir faci nnd bat little or no wool on tight lies, from these circumstances, the : tender, suffering very much in the 1 from tlie cold, and in summer I eat. They are in a stafe of continual torment dining the latter season, from the flies, if they have not caps on their heads, them m such a way, that the pelt, or outward skin i like to the order of a roast pi*, and becomes \ The **gloa thing** for the sheep, is **a** con time ise, and there is a sort to be found which ahave no occasion i or cloathing, having a matural preservatiou against the heats of runner and the includency of the weather in winter; to no irtifkial means £an picture the frog-e}. doep in that search, whilst the sh-up which the line protected by nature, uiJi he found to be of a much better sort, of a fattening kind, tint ing in all semons, s'"d ing much more \-*<ol npoi them. (f^ the particular in this called or account of their eyes being large and wide, a:id aj>peai i up to stand out of their heads, are a kind of dunk sheep, very bad feeders, and, although there are parts about them which would induce one to *uppase them to be of a faded in, and nil (hum [o Ti and the line Position is but short lived, for the heads are short, a bad indication in many other fattering animals, forcheads broad ; and their cars, though thin, are very often broad snd shaped like the aspen leaf ; these crag thin, with little or no flesh upon it, and extending from the head to the shoulders i their tails small, which is an indication sif there being * not little useful flesh along the back, that is to say,

131

from.

SHI P.

182

:k or upper pnrt of the *neck* to *the loin*, \\ ertainly the bout a sheep, if a bre wants to produce such sheep as these, I would ask, how would Ue pi in those two points. Since I returned to London, I bave. examined those sort of sheep when cut up by the cutting. bmcher, and have found that he disliked sheep of this form. saving. '. 'IVough the sheep appears light, yet when killed and one up, they are even light* prime part?, mui loss fat wiilim tlii;ni ihan could possibly he magned, or 'han aig other sort of sheep. ii is fmther remarked by the cutting butchers, that the pa; t called tht and a AMJ to be a continued mass of blood. proving entirely useless, consequently, pbliged to be cui off in! thrown v often. It i II* by i be occasiotied- by t;ikii!j: hold of ll handling, and that ille sheep are so delicate, as not to bear such t entine; it. 7 his mar, however, not be the only cause, as it may be observed; that in these kind of sheep, the shoulder blades staiid up high, and the back bone seems to haug loosely, so that = in they move, or even the stand, thy the state of a tn;n we shall be the human fra: en atta< reling to market under such < real states, that part is be thf only of the bloody up where allowed to : or from tht detect i natury . It may be occasioned even by moving about in ; he pastore, as it gifty be observed, that the sheep have a v.r. bad commune of their feet, standing much and very frequently failing down. In travelling to London tl» r frequently tire, and are generally to be found the last in the drow >m tine out of sheep having and little fligsh upon them, what they have is chiefly fat; it is, therefore, an object the cutting but the that from there being such a small proportion of lean Li' fat.

that
SHEEP.

that great waste is occased led. I have taken p-uns to illis matter to the bpttons, in order to guard the reader against these sort of alicep, being well convinced that much harm arises from the breed, and that good cannot, The farm a sheep ought to be in is clearly, to have a small hear i with a thin \isige, a mick eye. a small mouth, tin f.,rtliead mi; tat the cree stand bear to realize and also the cars, which should be sharp, and as fically at the back part of them as unture will allow.; Id his shape be what is will, never steb e lincker in the head than the meck; the voin in the neck can never be too strong or perill made ox ; to have a sufmanent, similar to that ficient quantity of fiesh, lean and fat, ou all up to parts, •lie animaf which produites more fat than lean is o : aa unuseful kind; mutton 1 und 1" r lil und fax wU 7 d. per 1b. which is a loss of 2d. per 1b1]li the next place, he Mould bp so covered on the head whit woil as to be protected i from the stm and flics. I on the head, the not an an that it should be what is called " u: Q under the ears and al but thut this sheep should have a summit topple ; the legs to a navfi wool, on the fore-leg as far as the knee, and on the hind-lc- aa far as the c^mbi With wool of a long good building, not only for protection from flice, but for profit. All these things are to be acquired, it its more useful fat, and wool on the sheep have just described, than on he former oucs; it is not that the weight of bout' will be fintting it will be of better form. Although much cas been said of the difference of the weight of bones in theop, yet upon trial of

cep and a small boned one, the difference has been so very triffing as not to be worth mention. This may stike com circumstances may graded by the set

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proved

SHI .

proved by Mr. Bakewell that the bone of a race-horse jieavter than that of a dray-horse, though the bone of the latter a p pen red to be so much larger.; the same may be the case in sheep. Ihivitig on my view of almost every flock in t)iis county, both good and bod, but purlieu 1 evi ry one said to be good, and seeiyg so many defects even in those best flocks, and iliat there were realij more of those d:inks in the best flocks than in thtf inferior enes ; i >aid the more attention, on my going into *I*. to viewing both the rams and breeding ewes of the first ram breeders in the county, and was sorry to **e** many of xhose"defects amongst ttiem which I have described in the county of Hut I and. So true it is, that in all things various fashions have their turns, and thus it happens lhat the breeders having got too much i i he extremi got got wrong: as I have before observed, like will, in a great measure, gut like ; it then fore seems very strange to interthat wheq a bigger on the a ram to get sheep of CSlb. per quarter, with 14:1b, of wool, lhat he slioul ram which more than 18 or *20lb. quarter, and **h** bot more than from 5 t > 71b. of wool on him; or Iow, with the port of keeping he means to give, the produce 1 has a second by the object has A ram breedei any other man who sells in view. **res.**, and **ca e** expe. his ov. i but, on tin; contrary, will d<v W\\$ the Inversit is the best; it so that he has power of] to be on ovi the buyer of hirer, be and comvicliwi. li, had he bejeu kil would not have weighed more than 12lb; per quarter, nor have clipped more than 4 or alb, of wool. However, et another 1 ,1 snw vu' h

WEIG:

were infinitely fatter than in tall rains. 1 was ill i thebre. that they wanted both moi-H wool, that their she^{*} D^{litUe, mtd t Uir} wool lighter s it is self-evident, that a Kitle '_^{l1} «*P less wool tliiu a one, and Mfhut is I as a remedy. I observed ti ieI r m_{f} .Wd a itick i *P^S to asp their length; «* « particular, jured both rtil_

I was inform _____n n ram breeder, that some t.me sinpe a very great sheep feeder and jobber, having a a old stick, with which he used to ^asiire t^{i} length of above Λ^n finding tfaatMr.Bak wells abeep were also riw Am Lee old breed, observed, that Mr. Bakewell would spoil the 7 breed of the kingdon; but Mr. 1^k ewell was a mt'^observin- man, and had he b. living, edly, not only have seen, but procured what by w;intin** The iniiKbof the bn eders were turned, in a most ast out taking way, by Mr. Bakew 11; and at that time h certaiiity p)ocured a sort of sheep, which very much im, proved^ any large coarse sheep :jltt iltl extremes are wrong, au there ought to be no deception m i ti,e inside of a sheep was ap profit to the grazier," yet he ought to have considered, that the grazier was not the hast who was to have a profit, just that the batcher must come after hnn, and must h, we prov't too : the therefore A 6nds himself disappenettod $\ll i$ and $k_{\Lambda d_{10} f}$ and $k_{\Lambda d_{10} f}$ he, in rpos, certainly afterwards a un that king d buy the lt which pays hims thus, that or 1Uuik1116 ?? sheeps b, ing first tried by one and then another_ i i m1 thas universally found out, it is obvious, it will but fetch its real which must also be sm 11 . It is, t cretore, ev. dent,

110 RS £5,

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duit, that the breader, the grader, and the buttler, are, it were, embarked in owe grand com • manual and the to their mutual interest to starve each other u> much as ible. To conclude, from what has been accounted at will appear, that there is a medium in the I. will appear sheep neither too fine or com-a, avoiding either of those during -us extremes. Much depends on the lime or age that iherp are kept to, **explored to market** if sent •icd. slierp is fitter for that purpose that but when the sh* on the pt unit they be two or three years of age, size must be I, if the shape be not qille complete, as the a sheep to be shorn three times, md fa*m his compaas.alone, clips 5 or 61b. of A each time more than the small 01 creasing in size, so as to weigh more in 5 of 61b per qr ; it makes much difference to both the breeder's and gra. t; and then many rich lands in Knglaad where young sheep, do not fatten well upon.

SECT. in.—nor

. Dref, ku,	Horses and Marca No.	Tonla No.
kind,	17	
Manana and an and an and	50	6
10	- 27	
Regardencementarian	-04	8
0	30	25
0	20	20
10,	10	
0	50	1
Uransen and an and a second second	-	
Carried forward	324	30
Carried forward	100	
	kind, bo. Carried forward	kind, bo. Carried forward j

Parishes.	1000	Breed, Av.	finnses nod Mares, No.	Priala No.
A CONTRACTOR OF	The fall	Brought forwar	d 324	50
Barley	Cartkind		36	8
Caldecot	Dorman		- 20	-
Clipsham	. Do		40	10
Tesmore	. Downer		50	10
Dry Stoke	Duran		- 9	0
Entoweston	Down			0
Egleton	- Do		10	-
Emp ugham	Dans		200	20
Ev mitter	100		90	100
LX III avana	- Do		00	12
GIsyston	. Do			0
trtham	- Do		0	130
Gunthorpe	-Do			00
Han	-[Do		- 60	
Ketton	- [Do		50	00
Longhum	. Do	*************		14
Little Coverton.	- Da		- 60	
Lyddington	- Do		1	a.
Lynden	-1170	walkane same as	31	10
Manton	. Dorana		30	10
Market Overton	-Dunner		10	6
tacaheida	- 100		40	2
More it	120		10	5
Normanton	- 170		65	6
North Lagenham	Da		70	100
Distantin			53	10
Pilese	- Do	Julia .	21	4
Prosterio	- Do. serv)	pour	- 50	5.6
Profiles	De		- 27	4
Reall	- 170		- 20	10
Seator	Line		- 50	14
Smith Luthenhouse	Do	and the second	- 4.0	12
Strutton	De	and an and a second		10
Trinh	Do		00	0
Tittemente	100			10
Thistleton	100		- 20	10
Thorne	Dia Contraction	Sales and a server		-th
The assesses		ASA CLESS AND	-	

Patisbes-		Roeds, &c.	14.15	Marrise Stor.	Foals No.
Tinucil	120	Carried form	enrd,	1579	319
Tixover	0		2.1.1.	20	1
Lip, gham	0			= 50	10
WanlU-y	0			5	1
wing	. Do	Sector Contractor		60	1
Witwohl	Do			14	1-2

The h hi eh are bred in this county, faking them in Vn Uie most' approl saw for salt-, considering that they are chiefly raised on iVuin their quality, are capable of raising horses of t value, whether hunter.¹*, roadsters, coachei di my I scarcely observed a good br ad more except at Jr. Chapman's; he liati some black s of an useful farming kind, not large enough for the but would do t stage waggon. The sort I sitw, in strong horses of various colours, and of all shapes, real good sir per and were the le of drawing half a plough, and may be good v little money at market. 118 borses u *ur busbantfryin the comity ami 539 foals raised; now supposing the foals to bek.pt until they are threi old, be are fit .- or use, there would be 3 horics kept in lht; count'*; then suppose on. ten to die in a ye:ir, thtoe wI be only 1 orses bred in the inty sufficient f >wn use; which I one rev pirit of ctnulution in bi Even supposing but on« horse in twenty to the states

10.0

HORSES,

would but be 150 horses for sale; However, the horses pf Hut land are bettei han the large drav-horse, for that hand of horse is, of ill i>tb(ars, the worst for a farmer's use. I sh mid wish to recommend to the farm and this clinty^ 'many possessed of better shape and action. As $\$ and j some horse is kejit on ;; little or less foorf than one of ail >rdinarj AWK; ajid action is generally only to be obtained with good sic:; [Tie horses [prefer, an of all works, such as will, on occasion, carry their *works* to market chaw the plough, curt, warden A farmer in this county, instead of having him winch will sell but lor !.ould have sn< id bring hi 0; and a forty-pound hoi Luch mi Id thau a fa" >ound one ; for u good ho. ... of any kind never wants a Use U-t at any season of the years and a bad borse, at the becoming of wiirer, can scarcely be given away. 1 saw *i* in the county that 1 would not have had *i*ft, had I been obliged to a whilst tJ re four sold; itvei that by buying a good horse, and ke< money got by bim il an a bad horse is worth. Horses sire however kept at a very small expense, chiefly living at all masons on what would be a waste. In the early part of the auranter they are kept on pastures, where they cat a ³⁰rt of grass which i vould not be eaten by other animals, id in the h the month before winter, ou stubbles or ed-

As a corroboi ition beii> Worses, L i m the I county **Worses at different fair "noiitl) of May, far 60\.>** W him in fic uioudi of August, at Homcastie fair, for 10

PARISHES,	Ноо i, SлС r. vj,		POULTRY, SECT. VIII.	Ener Deer	0
	Farmin.	350.		No. No.	No.
Asliwi'll	Mixed	50	or own USPS^	200	0
yston,	Ditto	28	or own uses and sale	5	ob
Barley thorpe	Ditto	- 40	or own uses •-•-	2	G
arrowden».	Ditto	130	or the Ubes and sale -	8 2	Ö
Ielton	Ditto	50	or tm-ii .uses	1	2
lishbrooke	Ditto	00)itto.	2 3	0
lidge Custerton.	Ditto	00	?Uto • -i'•	1 4	OP
raunsion	Dillo	60	For own uses on the farms, anil at the coungers for sale	3 5	0
rooke	Diffo.	20	v>r Qi\n uses	1 5	O_{1}^{*}
Ourley	- 16	2/111	htto	1 2	Oj.
Caldocot	DH 10	40	Ditto	1 3	0
Ciipsham,	Ditto	150	titto	1 2	0
oitesmorc	Ditto	80	or sale, niibCil If ••••ttfc.o't ¹	1	
Dry Stoke	D • 0	- 90	= *r own u#r= •"?"•!	1-	
dithweston	to	00	i i t to	0 2	2
JUeton	<i>I</i>)110		'ilto	Contraction of	2
m pi n^ ham	Dr	1000	∽r own \a	roo)
ssendiiK-	Di	40	litto	101. 1	2
•••• n	Ditto	200	or oivn tiM.s on ibt? farr M(! the sale	4 0	2

	LIVE STOCK.	U.
$\frac{2}{r} \frac{O}{CD} \frac{M_{t}}{5^{(1)}}$	C » O Ci C C SD C C C C C C C C C C C C C C C C	95 901
	or or or ure - d e'd or or or ure - d e'd or or o	1 Indiana and a state of the st
• • • • • • • • • • • • • • • • • • •	?° 3 0 0 Q'fl → *·	Non-Party of
£-2 . §	Little Cascerton Lyddington Lyddington Manten Marten Gwenton Mortin Laffrahaw North Laffrahaw Onkliam Lyckworth Lickworth Pihon Frickon Ridlingten Nyall South Luffenher	Carried forwar



LIVE STO

i he hogs of this comity arc nut of a sishable breed, and those which are kept, ai for the sumption of the count; *i* no breed particul worth mentioning, except Earl Winchelsea's, which are of the Chinese white sort, and very good ones, ;snd what is called in London the Suffolk breed, I at both ei aud white m the middle; and like the third hich have that name, might*be called slm l pigs; there are farjMgl *n Uie kingdom of a more pi iud thart those. Mr. Wingfield has some most excellent hogs from Lord Win* chefeeaV boarj] believe the reason Mr. Wirtgfi ker xel my Lord Winch. much better keeper. Lord W"a. arc not poor, but Mr. W's. pigs are Il fat. It will be obst ti rhe table above, that in ersI the hogs are *ot* a mixed *h* consist) -fly of a cross of the Chinese, Iferipr Berkshire, or some larger Bort, which renders them not of a very profitable sort. The reason why there are not more pigs kept this county, is because the: it little dair aud it is singular, that although hogs will eat all sorts of refuse stuff, or what would be entirely v. the vifl i iv for keeping, if the food *i'or* them be to be bought* Hogs, like other animal[^] arc not worth keepi tot kept well; take them from the first bi a iw ihe kingfom, and starve them ; I require: oodju deed to find out the [%] uch well-ban d pigs, so than in any other auiin. ally it proves, that a man ought not to have a pig, unless he lias plenty o(food for it.

SECT.

Si:CT. RABBITS,

proper for that use; nor are there any rabbits kept tame for sale as in the county of Bucks, where it may be observed in my Report of that County, great numbers are raised by the lower orders of so ' being **principally weeds**, and **nothing** but attention **required** to raise any **number**, I should vn>!j it to be recom I by .tlcinon in this county to tfr- Ion of the l:ibm: part of the community. The dung of rabbits U of g service kid on the clover Crop

SECT. VIII.—POtH.TKV.

\ill bo seen that **very** little is raised **ill** the **cou** except for domestic consumption.

SECT. IX. --- PICEONS.

GKONS are thought by many to **bo** injurious **to** interest of farmers, by the havock made by them i and harvest time; but this obloquy seems not alt . to Lave been deserved, **for** in **Nottinghamshire**, where: there (reat **numbers** of pigeons, it was agreed **amongst** the fanners to destroy part of them, but experience disthat th« pigeons, .so far from being an **injury**, were of g) **utility** by picking up the **seeds** of **weeds during** tin- wii

in the fields, &c; and as Nottinghamshire is a dry sandy soil, generally there are always great quantities of ground ds; and pigeons prefer t! ds of weeds to com when they can get them. To substain the substained end pigeons were shot in ihe winter, and their craws being opened, were always found to be full of seeder this being the case, the fanners ontermination,, and ^restocked ihcir d a very increasing Iribe when pt tfcrag is of infinite service upon cold clay lands, no mature being before it. & at of 1 scribed in Experienced Farmi t. I, vol. ?. p.i, w C4 to 72. The houses in this cuulty are generally built of brick and brick nests, and some of stone; but neither oi them are so good as limber and ttmtl and basket work. Pigeons should never be served but in beating time, nor ever in the house, as veint thereby tern &> the houses. Ashes should be thrown hitmix .with the dung, as it is **thus** made to **separate much 1** ter when carted out.

SECT* x.— i-

I HAVE i cUunt in tin H"⁶ -tocks or hives of bees being mucli indeed to the industrious insect must the bee gathers this aisistaiice for tf; none, everything that can possibly TM iblepuraui . be W« ^

l4Jf

BEES,

benefit, but in a national point of view, *h*, **and** would be found very interesting, as this country has to buy much wax and honey from foreign countries, which there is no doubt might be raised at home, I should therefore wish to recommend to the higher orders of this county an ingenious publication by Wildman, No. *326*, Holbora, near Middle Row, from which much useful information on the management of bees would be gleaned, and that cruel method of Smothering bees (which is universally practiced in Rutland) done away.

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CHAP. XIV.

RURAL ECONOMY

SECT. 1.—-LABOUR.

AT Ashwell, die labourer receives in summer 15*. *pet* week, and one quart of ale a day; mowing grass, from Ss; to 3s. 6d. per acre, according to the crop, and two quarts of ale per day; in winter, labourers wages are 12s. per Week.

At Ayston, labour in summer is 12s. per week, and so continues from grass mowing until the eud of harvest; ia winter, 9s. per week.

• At Barley thorpe, in summer, 12s. per week and board ; in winter, 9s. per week. *

At Barrow, during harvest, wages are 21s. per week; in winter, J2s. per week.

At Barrowden, 8s. in winter, 9s. in Hay time, and 1&*. per week and board at harvest.

At Bel ton, in winter, 9s. •,, and in summer, 9s. per week and board.

At Bishbrooke, in summer, 9s. and board} aud in winter, 9s. per week.

At Bridge Casterton, in winter, 12s.; and in moments per Meek.

LABOUR*

At Braunston, in whiter, labourers receive from 93. to 12s. per week; and from 10s. to 12s. and board in summer; servant men from 12-1. to 151. per year; boys from 31. to 61. or 71. per year; women servants from '21. IOs. to **41.** *OY%1*. 10s. per **year**.

At Brooke, labour is from 9s. to 123, in winter; and 18s. during the summer.

At Burley, 10s. in winter; 12i. in summer; 18\$. at harvest per week.

At Caldecor, 9s. per week on an average for botli winter and summer; but few yearly servants kept; not HIOTC than **five** boys and the like number of, girls, boys receiving from 3L to (it.; and girls from 21. 10s. *to* 41.

At Clipsham, 12s, per week during winter; and 15s. in suimix

At Cottesmoie, labourers 12s. per ycek; and 21a. per ditto during harvest; about three yearly servant men m each house, who are p;iid from 41. to *IS*>\ per man.

At Dry Stoke, labour 12s, per week, winter and summer.

At Edithweston, from Michaelmas to JLady-day, **12s. per week** is paid to labourers; and from Lady-day to Michaelmas, 15s.; mowing grass, 3s. Gd, per acre; and from 2L JS. to 31- for the harvest.

Egleton; at this place labourers have Gs. per week and board during whiter; and in summer they generally work at piece-work.

At iSmpingham, from Michaelmas to Lady-day, labour is at 10s. 6d. per week; in summer, 12s.; and during har-vestj42s. and board; yearly servant men, 101. j boys, 41.; and women servants from 31. to 51.

At Essendine, labour 12s. in winter; aud 13s. per week iu sammef.

t Ex ton, labour from 9s. to 1&s. in winter; Us. in bay

LABOUR.¹

liay and harvest; servant men from 1G1. to 151. per year; toys, 31. »

At Glayston, labour 12s. in winter per week; and 15s. HI summer.

At Greetham, 12s. per week the year round, excepting the harvest month, when 14s. a week and board is given. Yearly servants; for a head or fore-man, 181.; for a shepherd, lffl.; boy*, 51. per year.

At Gunthorpe, in winter, 12s.; during harvest, 21s.

At Hambleton, labour in winter, 10s.; in summer, 12s.; in harvest, ISs.

AtKetton, labour in winter, 9s.; in summer, 12s.; iu harvest, 12s. and board.

At Langham, labour from 9s. to 12s. in Winter; and in hay and harvest times, 15s. per week. Yearly servants; men from 121. to 151.; boys from 3l. to 71.

At Leafields, labour 12s. winter and summer.

At Little Casterton, labour 12s. in winter; 15a. per week in summer.

At Lynden, 9s. per week, and small beer in winter; in summer, 15s. and *small beer*.

At Manton, labourers receive in winter 6s. per week with board, or 0s. without; and in summer, 12s. per week and board; from, 3s. 6cR to 4s. per day, and beer, during harvest.

At Market Overtoil, 12s. per week the whole year.

At Martinsthorpe, 10s.per week in winter; 12s. in summer; and 18s. in harvest.

At Morcot, 12s. per week in winter; 18s. in summer.

At Normanton, labour 10s. per week, except during harvest, when it is 18s. and small beer.

At North Luffenharo, 12s. per week through the year, with the addition of board in harvest.

At Oakham, labour 12s. per week, winter and summer.

At Pickworth, labourers about 30 guineas a year.

At Pilton, labour 9s. in winter; and 12s. in summer.

At Preston, 9s. per week on the average.

At Uidliigton, 12s. per week in winter; and 15s. and beer in summer.

At Ryall, ditto, ditto; women from 10d. to Is. per day,

At Seaton, 8s. per wetk in wipter; 9^s- ^{nav} harvest; 13s. and board, corn harvest.

At South Luffenham, chiefly piece-work, 2s. per quarter for threshing barley, 3s. 6d. for wheat, and 2s. for beans; 18s. per week and board during harvest.

At Stretton, 10s. 6d. in winter; 123. in summer.

At Teigh, 12s. in winter ; 18s. in summer*

At Thistleton, 12s. in winter; Ids. in hay time; and 18s. during harvest. The hours of working from sun-rise to sun-set in summer; and in winter from light to dark.

At Thorpe, (*js.* in winter; in hay time, 9s. and board; and in harvest, 12s. and board.

At Tickencote, labour is about 30 guineas per year, per man, in this parish.

At Tinwell, 12s. for both winter and summer, except during harvest, when 18s per week is the average. Yearly servants; a head man, 161.; others, 71- or 81.; boys, 41.

At Tixover, 12s. in winter; *18s. in summer.

At Uppingbam, 9s. in winter; and 14s. per week, with *plenty* of beer, in summer.

At Wardley, IOs. in winter; 10s. per week and board in summer.

At Wing, 7s. per week, and two meals per day in winter; 10s. per week, two meals and pne pint of ale per day in summer.

At Wissendine, 12s. per week in winter; 18s. in summer.

LABOUR.

٩

Labourers' wages average in this county, exclusive of board, beer, &c. which it will be seen is given in mauy parts of it, j for the winter .season, about 10s. $6\pounds d$. per week ; for the summer, 13s.; and for the harvest, 16s. per week.

Labourers begin to work in hay and harvest times, at five in the morning, and continue till sun-set; and from six to six at other tifiries, excepting in winter, when they work from light to dark. Women seldom go to work in the fields in winter; but in summer, field-work is their chief employment. Wages average from 9d. to Is. per day. From 101. to 121. is given per /ear for a man who can plough 'and sow. Wages have risen considerably in this county within these last twelve years; yearly servants for husbandry having risen within that period from Si. to 41. per year.—The average price of piece-work in the county is as follows:

			s. <i>d</i> .		«. d	•	
Mowing	Grass,	from	26	to.	29	per acre.	
Clover	. •	• •	1 6	-	2 0	ditto.	
Barley		• •	19	-	20	ditto.	
Oats.			.2 () -	2 3	ditto.	
Peas.			.< 9	-	20	ditto.	
Reaping	Wheat	• •	66	r	76	ditto.	
Hoeing 7	Гurnips	•	5 0	-	700	ditto, 3 times	over.
Threshing	g Whea	nt.	S 6	•	• •	per quarter.	
Barley		•	1 8	•	• •	ditto.	
Oats.			.1 0	•	• •	ditto.	
Beans		. 1	0 t	0	1 S	ditto.	
Peas.			.1 0) _	1 Se	ditto.	

Many farmers board their labourers in hay time and harvest $\$ if they are hired for the whole time, then the*

wafcs

*

wages are from 9s. to 10s. per week; if only for the harvest, from 40s. to 60ş. for the time.

SECT. II.—PBICE OF PROVISIONS.

THE price of beef, mutton, and pork, js nearly the samp as in the neighbouring districts, and as near as can be ascertained, about one penny per lb. cheaper than in London; but when it i\$ considered that the prime meat is sent to London, or sold at distant fairs, the price paid for the inferior sort is high. In all probability, the price of provisions will continue, in proportion to the times, without much variation.—The average prices of meat, &c. are as under, at Oakham.

	s.	d.		s.	<i>d</i> .	
Beef, per lb. from	0	5	to	0	8	
Muttop, ditto	Q	6	•	0	8	
Lamb, ditto	0	7	•	0	10	
Veal, ditto.	.0		5	· 0	9	
Pork, di «Q	•	0	6.	0	8	
Bacon		•	••	1	0	
Chickens, per couple.				.2	6	
Duc^s, ditto.			•	.3	0	
Ditto, wild, ditto.				.4	0	
Pigeons, per. dozen.			•	.5	0	
Butter,, per lb ['] 0		8.	ţo	1	3	
Eggs, perdozen O		0		1	0	
Cheese, per Jb. • . •	0	6	-	1	Q	
Flour, fine, per stone.					<u>.</u> S3	
Ditto, second, ditto.		•		-	8-6	
Ditto, coarse, ditto.	•.		•	.3	4	
						G

Green

TUEL.

	S.	<i>d</i> .		З.	d٠
	- 0	6	to	Ι	0
•	. 0	4	-	0	6
•	. 0	2	-	0	0
•	. 0	4	to	0	6
•	. 0	6	-	1	0
•	. 1	6	-	S	0
	• •	s. - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 1	s. d. -0 6 0 4 . 0 4 . 0 2 . 0 4 . 0 4 . 0 6 . 1 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

SECT. III.—FUEL.

COALS are now the general fuel of this county, which are brought up by the canal to Oakham.—They are however mostly used with wood; and there are, from my information, four or five parishes where wood is still **the principal material for fuel.**

CHAR XV.

POLITICAL ECONOMY.

SECT. I.—ROAD3.

ASHWELL, the roads are tolerably good. Aybtoit, pretty good; a turnpike road through the parish. **Barley**thorpe, the same; statute duty done* Barrow'den, very good; a turnpike runs through the parish. Belton, the Bishbrooke, good; a tiunpike six miles. Bridge same. Casterton, Brooke, and Hurley, very good; a turnpike through the latter. Braunston, middling good. Caldecot, very good. Clipsham and Cottesmore, tolerably good. Dry Stoke, very good. Edithwe.ston, not good. Egleton. Einpingham, and Esseudine, veiy good; a turnpike through the latter town. Exton and Flitter is, tolerable. Glayston, very good; a turnpike through here from Stamford to Uppiugham, and to Oakham. Greetham, good. Hambieton, tolerably good, Ketton, very good. Langham, tolerably good. Little Casterton, very good; a turnpike Lyddington, tolerably good. through the parish. Lvnden, very good; an assessment of 9d. per pound for the repairs of the roads. Manton, Market Overton, and Morcot, tolerably good; a turnpike through the latter. Martinsthorpe, bad. Nonpanton[^] very good. North Luffenham,

ADS.

. Luffenham, good. Oakham, the roads here are indifferent, being indicted. The materials for their repair, &o. are bad. Pick worth, middling; statute duty done. Pi J ton, Preston, very good; a turnpike through the parish. good. Ridlington, tolerably good. Ryall, very good; a turnpike through the parish. Seaton, middling. South Luffenham, very good; a turnpike, Stretton, very indifferent; the north road turnpike through the parish. Teigh, tolerable, Thistlelon and Tickencote, very good. Thorpe, -bad. Tixpver, very good; a turnpike. Uppingham, very good. Wardley, very good; a turnpike; Wing, very good. Wissendine, \$ood. Witwell, very good; a turnpike through The parochial roads are mostly ill-formed, the .parish. being raised too high before the materials are laid upon them, and the materials laid on too large; therefore, must remain in a bad state until a better method ia adopted. The turnpike roads too are badly formed, and not in good repair. The materials for their repair, which are generally stone, are I4UI on in the autumn and winter, instead of the spring; levelling the sides of the road for the carriages to pass upon in the summer, would be of great benefit to the roads;~ but this is neglected, wliicb ought not to be, as, by the roads being repaired in thii way, they would have a lofig time to settle, and be in good order against the winter.

1 observed, that where enclosures had taken place, and new roads had been formed, especially if it happened to be over ridge and furrow, that die greater part of the land allotted for the use of the road was rendered *useless;* for though there were 40 feet appropriated for the purpose of a road, yet, from their method of making the road, which is by raising a very high bank in the middle, with two steep sides, leaving on each side 9 space like unto a **fence** ditch, and betwixt each pf theie spaces and the outside

side boundary of the road, is left a high narrow ridge, entirely useless to the road ; the middle part not more than from nine to ten feet in width, is the only space out of the forty feet which is usable; this space is covered iii .a flat manner with large stones; a track, or hollow place, is soon . formed on the top or middle of it, by the horses in carts, Sec* and ruts of considerable depths on the sides, so that it is impossible to quarter with a single-horse chaise, but the . traveller must keep the wheels of the vehicle in the ruts. by which both he and his horse are thrown and tost about in the most horrid manner imaginable; a chaise and pair hits much greater difficulties to encounter, for as the horses cannot quarter, they go jostling one against the other, and keep slipping into the deep ruts, and are thus liable to fall every step they take, at the imminent risk of breaking the carriage, harness, &c. &c. By what I have stated, the reader will easily picture to himself the hazard there is in one carriage passing another on such roads, for, from the steepness of the sides of the bank I have already described, it is impossible to travel on them; but on meeting any other vehicle, each traveller is obliged, at the risk of being overthrown, to .draw out of the ruts, which is not effected without difficulty, and give way by drawing partly on the slope, whence '-the water is prevented from draining off into the side drain, by those ridges on each side of the road, which are also too parrow for any carriage to pass upon; and even if a horseman attempts to go upon them, from there being hollow bad places in them, and if he once gets on them, he cannot easily get oftagain; he is in more danger than though he were to leap over the side ditches into the fields on each side; on the 'whole, a worse system could not be pursued. On a new enclosure taking place; the greatest, atteution ought certainly to be paid to the formation of the roads, which should

ROADS,

be formed with a regular rampart, umdually nedining, from the middle to each side, so that a cavri Hiight pass along on any part of the road, and thus make the whole of the road usable, mid the wa from off the whole of the road into the drain by the side of it; the two sides of a road would then in the sunn be as good or better, than the other part of the road, and might therefore, b« used all that sea part being properly attended to iu the spring, iu common with the sides of the road, and being covered in a proper manner with stones, &c. would have lime to settle and come very good against die ensuing winter. W Jges and furrows occur, there ought to be i more and the bottom of the furrows, and c <i th before ihe stone is laid on; thus the water drains and a good foundation is laid, so that should whet's I juiutrate through the stones, Sec. there is still something for them to bear upon. From the observations I i county, I am of am opinion, that thirty feet is a better width for parochial roads than JKOJ larger spue being in thai space Mifiirant width for any number of carriages which are ever likely to nit I is napre likely to be formed in a proper *mu* than us the second secon wider, and consequently * • • • • • • • • • • forming and keeping in repair; and from the road being iu continual usej it would all hv repair; for when onee :i road is well formed :md made, the expense of keeping it iu taparati trifling.

SECT,

POPULATIONS

xny enquiries respecting the food and mode of living of the Jower orders, I bml, that in this respect, they are rather above than under par in every parish; beef, mutton, aud bacon, with bailey bread, or in some parishes barley and wheat mixed, being their food.

The following **Table**, exhibiting at one viev.-, the Number of Inhabitants in the County, Male and Female, with their Occupations, is extracted from the Returns made in the Y-ear 1800, under the Population Act.

	PER	SONS.	00	1.2		
HVKDREDS.	Nunrber Mai	of Fern	Terrent tuic.	9 •OVLS	Per -d in tlie LWI Li	IOTAL.
Atetoe Bfartinsley . OukhaJn' Wnuidike .	177 t 1443 1514 I640 1 607	181 » H 1 605' <i>10</i>	877 1(4/7 5]	357 216 430 351 503	01 1622 <i>06</i> <i>3\$</i> 1741	3d35 2905 31 19 3297
who was inter	7ft78	S378	3955	1923	10*38	16350

SECT. X---?00Tt..

WITH respect to the poor rate, there seems to have been no material increase in the greater part of the parishes in this county. The parish of BLshbrooke i[^], however, an exception, a's the rate has risen there, in the space of seven years, from oOl. to 2001. At Preston the rates were said to be on the advance. On the other hand, in the parishes of Lyddington und Wing, the rates have decreased. There are several friendly societies, which. arc much encouraged 1 tleinen; the poor industrious inan has it in his power, by becoming a member them, to purchase a comfortable support in old agi ->, or infirmities of other natures. Such so< doubtedly, are a public good, and preatb rates. There is also another society, to which be mi-Ji praise cannot be given, entitled the I lmln the beneficial effects of it having expanded tin. in very many respect? throughout, the comity. Yov tin* institution of this excellent society, the counting the debted to the zeal and public spirit of the R id Thoino9 Foster, or" Tin well; he proposed it^ and hru taken, and continues to taWe infinite pains in pro« by him I have been favoured/in the no.-*t i aii*aer*, with the following account of the establishment of the soci< ty, ami of the proceedings in it. At a meeting held at Oakham in September, 17SJ, it was resolmj to adopt a jtlan, winch had been carried into on with greut success by the Reverend-Bowyer, in the county or' Lincolu⁴; and the following resolutions \ reed reed

* Mr. Secretary Young, in his !e Report of the Count;
Lincoln, notices the plan bwrmg ne»rlv failed in lliat count.
l»utcs to Uic removul ot h. Bow

and

The following Account of Baptisms, Burials, and Mitrfrom 1700 to 1S00, each inclusive, is taken *Uoin* the Returns made under the Population Act:

1	Papi	ill*.		Fint	teh.		teh.		Mar	nil et	tate	there.
Yet.	Wales	t'Vint e	• Total	Males.	Frinates	Total.	visi	No.	Tit	50		
17U	234	252	486	Ui	Mi	375	1,54	17	r7d:	101		
14	177	2f/1		m 197.	107	234	5	115	100	108		
2	179	19 I	373	197	199	596	6	109	PC if	333		
3	112	170	387	177	1520	339.	21	120	0	105		
40	IS2	J7f>	358	127	l(¹ ;	231	8	93	Т	109		
- 50	'ill	213	403	1 +	136	200	9	96	8	120		
.60	rss	210	4fV2	133	25	304	60,	105	1 24	121		
39	207	197	404	17	13J	312	1	1US	90	113		
6	227	213	440	24S	224	473	2	115	124	116		
1	217	206	425	L79	195	3?4	3	128	2	119		
4,	223	191	414	182	173	355	1	100	3	11J		
3	227	216	<j4-'j< td=""><td>- 793</td><td>-203</td><td>393</td><td>2</td><td>103</td><td>4</td><td>103</td></j4-'j<>	- 793	-203	393	2	103	4	103		
4	227	240	467	184	167	sri	6	100	5	103		
r	221	223	444	177	190	367	7	99	6	J09		
6	226	£21	447	167	180	3*7	8	»4	1	121		
\$	869	218	437	174	197	\$71	9	1U9	8	151		
a	2ii>	203	445	iut;	156	3i2	70	130	У	139		
3	i>50	223	4?3	161	157-	318	1	113	1801	122		
9U	227	0.00	466	113	130	293	3	98	the second	-		
1	202	851	453	1:25	169	281	- 31	92	Aver	; « 110		
0	238	247	485	131	191	289	4	no	-	-		
3	232	241	475	155	J52	-505	5	Ind				
.4	238	241	445	109	184	262	6	110				
a	233	*J30	463	149	175	324	191	105				
6	250	238	482	I«	144	280	8	97				
7	•J7 ft	243	513	180	202	382	1.20	1.00				
8	268	244	512	1S7	188	345	80	1000				
9	'236	248	484	149	ITS	327	1	162				
800	•2.19	238	477	146	155	301	2	92				

The above Table gives an average of 447 Baptisms am 328 Burials, leaving an average increase of 1

RUTLAND.]

М

ІКСТ.

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d ordered to be made public in the bounty of Rutand :

- I. That every parish be requested to subscribe a sum, amounting to the proportion of one per cent, upon the poor rates of last year, and to **authorise** (at u vestry to be immediately called for that purpose) the overseer of the poor, to pay the said subscription into the **hands** of the nearest, chief constable, before the 10th day of November.
- **II.** That individuals be solicited to subscribe the sum of five shillings each annually, larger sums to be rec« as benefactions.
- **III.** That a meeting be holden at Oakham, cm the 14th day of November next, to chuse a committee for the management of the business.
- That premiums, consisting of cloathing, be giv from the said subscription, to such children, of certain¹ ages and description, as in a given time **shall** have produced the greatest quantity of work of different kinds, and of the best **quali**
- *. That when any young person Shall go out to apprenticeship, or to service, or shall be married with the approbation of the c tee, sucli persons shall recei nut less than 51. nor exceeding IOL if lie or she shall nave received three of the annual **premiums** given by the committee ; not less than el. **rior** iing 31. if he or *she* shall have received two of ita **annual** premiums; and not *less* than 3Os, nor exceeding 21. if he or she hall have received owe premium.
- That **premiums**, at the direction of the committ be given *to* those day-labourers, who bring up four or

prove the observation to *have h*

M®

more **children**, born in wed 10 the age **of** fourteen¹ withou from the pair

\ II. That as tincoinJ! strongly recommended to the parish officers, to furoh i \\\A\ to employ I Ithough i be chargeable to the parish ; orork-houses, to allow them free admission info the spinning room, and lo teach the id that the profits ari m the work of such lefitof their p;

; to the committee, ut the meeting on the 7 ill day of February, that the sum of'.' actions, 112!. <1. annual ons of h, (>71- 17s. 3d. and parish subscriptions of 1 per cent, of the poor's rates 281. 17s. 1< ived by thi<-ir treasurer, they resolved that

• **uperintend** the ; tlltd **children riotaids, witlt** the rules *m* i»-«f tlie **work** required to be dune, be puncrPormed; to aiuns and benyfactbns, anrt tut any **imposition** timt tnuy bu attempted **to** be **made** upon the ; -:y.

221. I!

Money allowed by the Committee, in tach Year, for parchasing Cloathing.

	£.	s. d.
n 1786	108	90
1787	104	60
J788.	104	60
1789 • .	83	.0 0
1790 .	83	50
1791	86	50
17!2	88	10 0
J 793 .	.92	50
17fji .	. 92	5.0
170,1	106	0 0
1796.	17	j 0
1797	117	5.0
179H .	117	30
17P9	117	50
JH00 . •	117	50

^ This sum was divided into 25 premiums, inukiiTg in the five classes 155 premiums.

t A cif work ibefore any child cai ciuuiidiiu:; andacquaint>ig and ki.itting is appointed to Bee eachte spiu or VIT, wbictproduced tocommittee, on the Any the premiums arc disposal uf,

U 3

OR,

			£.	9% (I.	
1801			117	5 0	
1802	-2		117	5 0	
1803			117	5 0	
1804			117	5 0	
1805			124	10 0	
1806		4	124	10 0	

The foregoing sums give an average of 1071- 5s. 9ddnd a fraction for cloathing i:n each year.

In the year 1794, the Society thought proper, as a greater encouragement to industry, to give to every unsuccessful candidate, being a spinner of jersey or hemp, two shillings and six-pence; and in the year 1800 to every knitter. one shilling and six pence. The following is an account of money thus expended.

				t.	s. a.	
n the year	17Q4			17	10 0	
	5	1		20	0 0	
	6	۲.		21	12 6	
	7	1.9		2ci	10 0	
	8			HI	0 0	
	9	12	-	22	76	
	1800	1		31	86	
	7	2.		32	196	
	2	-		33	12 6	
and the	¹ 3	< . ,		24	11 6	
	4			£8	12 6	
	5		:	28	5 0	
	6			18	15 0	

Yielding an average, for the first six years, of *til*. in each ir, and for the west seven years of 'ruilier more than \$81. 6s. 4d.

Amount

POOR.

Amount of Premiums given to Labourers, who brought up not less than four Childen born in wedlock, to the age of fourteen, without Relief''from the Parish.

Year.	Number of Labourers.	Number of Children.	JB d.
1786	. 2	15	4 4 0
7	4	24	15 4 6
8	5	27 '	16 16 Ŏ
9	7	34	17 17 0
3790	5	20	12 1 6
Ι	2	r 10	5 5 0
2	1	7	4 4 0
3	1	2	1 1 0
4	4	1£	[•] 7 17 6
5	7	25	13 2 6
6	1	4	3 0 0
7	2	9	6 0 0
8	1	7	5 5 0
9	6	18	13 JO 0
1^00	3	12	9 0 0
1		4	3 0 0
$\frac{2}{2}$	5	14	
5		4	5 5 0
4	0	10	
2	<u> </u>	<u> </u>	<u>15 0 6</u>
Average.	3	, I +,	<u>8 19 SJ</u>

POOR.

A lount of Premiums given to Female Servants, in addition to Premiums which they have received from this Society, *for* having been the best Spinners of Jersey in their respective Classes., and who have remained in **thf** syme Service one Year, and produced a Certificate'of their 1 .Behaviour in such Service-.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

The

	tonows.						
- Salation	100000	1000		-			
Year.	. of soy.	Spi:. Lin	Knii	to].			
1786	"£11	3	-00	16			
7	302	9	37	- 348			
8"	257	15	60	392			
9	203	S	29	2;0			
1790	232	15	40	287			
I	263	i{)	57-	359			
2	279	15	69	363			
A DE HARMAN	261	91	89	871			
4	253	97	66	M5			
5	272	39	10	408			
6	301.	27 .	120	448			
7	300	31	193	.4			
8	84	37	167	48			
9	- 290 -	- 40	155	48			
1800	SS(i	.S6	199]1			
10000	f The number of candidates were omitted						
12		munite bo	oka these	two years			
S	273	40	109	491			
4	251	20	204	303 -			
2	2/3	32	9 T1	.0.19			
0	1.9)	23	2005	491			
Average	265 ,	27	ing	.404			

The Number of Candidates in the different Years ai com t'ollows:

* The decrease in the **and the second second**

169

CHAP.

CHAP. XVI.

OBSTACLES TO IMPROVEMENT.

SECT. I.—RELATIVE TO CAPITAL.

THERE seems to be very few instances of a want of capital in this county. The land bting generally well Stocked, and asjittlo waste committed in consuming its produce as in any part α^* 'the United Kingdom.

SECT. II.—PRICES.

THX prices of the various tuticles necessary for improvement, rather low than otherwise.

SECT. III.—EXPBNSI

THE expenses are also low according to times, *vihm* compared with many other places in the kingdom.

SECT. IV.-WANT OF POWER TO ENCLOSE.

THIS, together with the expense of obtaining that power, is a general grievance.

9

6KCT.
SECT. V.—TITHES,

THESE are, in BO many lights or point of why, auch obstacles to improvement, and so u such, not only in this county, but in all counties that ever I was ID, that it may perhaps, he deemed superfluous for me to dwell longer on the subject than impress to say, I found them a severe preventitive to improvement in culture, in the county of Rutland, am! also to the increase of population j and that, therefore, it were most earnestly to be wished, that s< ritable means could be devised for their commutation. Many hundreds of acres are kept in gras\$, carrying only one ewe and a half, (t< line lambs) per acre, wbeu ia pasture; aod seduciug, if in meadow, about one ton of hay per acre; which, were they exonerated from tithes, would b< and burnt, and brought into tillage, not only producing jnauy valuable crops, but from the straw being junction in the into manure and compost, and laid on the land, would be much improved, at the same time, that the community would be largely benefited both by the productiou of large crops of grain, and more stock al ig kept per acre, and where only one man and two boys had heen employed, there would be one hundred people comfortably maintained and employed. could bring forwards many instances in support of what I have asserted, but the following, which has occurred very recently, is so much iii point, that I shall content myself with producing it alone, as an elucidation of the truth of what J have asserted, hoping, that it will prove satisfactory to ihe r On an inclusive re of some old common land, of ihe description I ,bav« ubove alluded to, fifty 6 were allotted to a most intelligent and spirited young

TITHES.

farmer of the new echo mediately set to work, and after a set of the &c. amounting to nex a crop of rape-seed, which brought him a solo tid upwards; he has since bad a crop of oatg which are called I-at 1's qrs. per striking service is striking which rence is what would have been produced, and what has been produced, thit it must strike conviction to every importial claserver. .At the best that won down here under type, the land might •*i* been ploughed, but withm meints having been entered into t for the farmer would have reasoned thus : I am Juying out-great sums of money at a m 11, should I to the titile-man for a parr or in the honest profits of my industry; this instance, the tithes would have \> £.30, i >babilit ild lujvc ipdm tithe-pi coinmtitatioii pater height, or to have taken his tithe in kind. I do not mean to say, that this would be done universally, but ii would too ire would ; and thus the farmer back for his own laborious and expensive improvements; it is also natural to mi, one to expect a man who is to have a share in the profile of any concern, sh mid bear his there of capita! and of risk; but the tithing-man does settler, but bears aw;y a]ar; which he never toiled ; thus the been ploughed [have before observed, but without those necessiry, though exj rations, and would have be«D sown with outs, the produce would have made only 100, (it mny be necewing the to observe, that an occupier of land, managing after the old school, did, notwithfttanding tho advantage of his land being exonerated in >m tithej plough up a piece of land of the Tiality, and adjoining U^* the had I have, ju oduced 8001. and

with

RELATIVE TO POOR MATES, &C.

and the laud was but bailing d with crop, and scarcely worth reaping) and by the tithe away one-tenth part of the straw, this land would be robbed and become poorer every year, whilst at present the tfthc being exonerated, it will be gradually improving, Welding annually an immense source of nutriment and pro-• the community. **II as rewarding** the **indu** ments of the i iiUivator. h is from the cultivator not rereiving the *trhole* of **tlic** reward attending iinprovi that so many thousands of acres lie ill gross uoimproi and produce but from 5fc to 71. per acre, where from 101. to 151. might be raised. There is but little dottfit that one acre ol talage produce:s more food for the community large, than five acres of grass, for pork, poull I greater part of the winters beef and mutton are raised from tillage land.

SECT. V|.-RELATIVE TO POOR RATES.

Tnssi u this count) and ii. r than tins)rice *oi'* provisions.

SECT, VIL-WANT OF PISSIMINATED RNOWLEDGE.

{ DO not find til to be wanting in this county to much in many othej

SECT. VIII.-

THESE are red worm-. and a 9 of louse on beans and **peas**; the me; **ition**, as 1 ha

1/3

ENEMIES.

have before said under the Inv.ri of the 1 J.Y in TURNIPS, is by so preparing the land, that it shall not be pruper or calculated for the reception of the e%%, or seed of their parents; and tin's is alone to be effected, at least as fill my present experience allows me to speak, by rendering the Ian. 4ve, and the application of such oilier chemical 'and *medical* assistance as the nature of the soil may I here wish to say a word or two^in favour of a require. tribe which the fanner ha a long been at enmity >vith, and I think very improperly so, I mean rooks, which I have found from experience, are a very necessary auxiliary in tht destruction of those devouring reptiles, and do all they can to extern; inate them; but this is an impossibility, for -n attempt might its well be made to destroy all the fish in the sen 5 but however, what little harm they do to crops in this their pursuit, is very abundantly recompensed by the good they do in ihc- partial destruction of the reptiles and insects which infest and destroy those crops. I have seen a clover cropj on which, whilst springing up and growing, there were thousands of rooks, thrive and flourish in a most astonishing degree; and have known a crop of oaU in jich was positively covered with rooks at that time \\i id to do such harm, yet, neve; rop at harvest was most abundant: it was here in these I ranees evident, that the rooks, at the time they haunted • land so, were in pursuit of grubs, worms, &e. and were in conserve, advantageous to the stress of the 'fr mer.

HAP

CHAP. XVII.

MISCELLANEOUS A

THERE are no agricultural societies in this county, which is much to be regretted,, as they are a improvement spur to emulation in all farming improvement!; for uhct such meetings arc held, many farmers aw int.' from distant parts, and thus reciprocal information By shews of auin and the provide the provi gained. rison a better judgment of his own; and if he ritdsi ot! to excel him, he begins to think why and \vl then adopts the necessary steps for iin> 19 is very grrat object £^{a):} r if " you can get a more the think," was one of Mr. Bakewell's best mil good may follow. From the conversation with the second sec such meetings, a man obtains such ideaa he never otherwise would have had; for an well allowed and the second se as Mr. Bakeweil might be, hu never sui cultural meetings or shews of cattle to see ic his attention, which evidently demonstrates that he ihought benefited by such attendance. Fanning is a living and keeps daily improving, therefore no one ought to imagine that he has arrived at the summit of perfection; for though be may be doing something superior to bis bow*, yet he ought to act like a swift race borscj keep lm jjroutiJ,

17G U i SC J : EOUS A KTI C LES<

iiul, or some slower paced horse will pass him; on the improvement of cattle, showing horses, pigs,-implements of husbandry, &c, ought to be ttuted aad upheld in eight outy; for although the •i tendency of those tablisbed has been dispuuii by several, and oihtu\$ go so far as to say, harm has been <i iliem, inasmuch as encouragement has been i to make call' . so fat,'that they cannot he eaten, vei 1 ucver knew a proof of Mich assertions and I do-not believe there has ever been an instance iher, cattle, sheep, or hogs, having been tinned out of market for being foo for; on the contrary, it is but very seldom that a verj prime animal stands long unsold in any *rliet*, and this remark applies more especially to Sunlthield; for il **on** looU intu that market after o'clock, though it be on one of the flattest market days in the sear, vet lie will rarely lind a good fat annual unsold. I attribute the badness of the implements made nse of, and the badness of the I is in to 1 is in the contract of the line the circumstances of the farmers having generally seen make but their own, or some similar. To sum tip all in one **rt** sentence ; a man **ma** whis own fire side, until he fancies he knows over thing;, whilst he actually knows-nothing, compared with what be ou^iit to know

I wrote the **above**, 1 have been **in** i **that** there is an agricultui ty, entitled, The Leicestershire and Rutlandshire Agricultural Society, meeting at Oak hum **ind Metton** Mowbray alternately; I therefore procured ilie following account of th< osed pi'einhims, Sec.

At a meetiog of this society, held at the George Inn, Oakbam, on the <27LII of November, I! Col. Noel, chatrin;

The following Premiums were proposed to be oiFered for 1807:

To the person who shall produce the best estimate of the comparative advantage between the use of oxen and horses, in husbandry work, 25 guineas.

To the person who shall make the best comparative experiment between the effects of fresh dung and rotten dung, arising from the same species of animal and forage; upon grass land, within one year, the extent being not less than one acre for each kind of dung, 10 guineas.

N.B. Dung not to be considered as fresh after the third day.

To the person who shall, on the annual meeting fqr 1807, produce a pen of five of the best fat shearlings, to have been fed with grass, hay, or roots, and not *to* have hud corn or cake, 10 guineas.

For the second best pen of the same, 5 guineas.

For a pen of five «f the best two year old wether, 10 guineas.

For the second best pen of the same, 5 guineas.

For a pen of five of Ae best ewes, to be shewn at the annual meeting for 1807/ which shall have produced and reared lambs at two years old and the following year, the lambs not being tuken from the dams til) Midsummer old style in each year, to have been fed with grass, hay, or roots, but nOt to have corn or cake, 5 guineas.

For a pen of the same number of ewes which shall have been kept on natural grass alone, 5 guineas.

For the best conducted experiment for ascertaining the relative profit of different breeds of sheep, in wool and carcase, strict attention being paid to the quantity of food each breed has consumed, the weight and value, when put

RUTLAND. $N \times WP$

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178 MISCELLANEOUS ARTICLES*

up to **feed and** when taken off, being specified, and **to have**^{*} fed with artificial food, \iith the exception of cor» and oil cake, 10 guineas.

For the second best experiment, 5 guineas.

For the beat conducted experiment for ascertaining ih«" nlative profit of different breeds of sheep, in wool and **Carcase**, the same attention being used in this as in the last clas«, to ascertain llie quantity of food consumed, the weight and value of the animals when put to feed and taken-off; to have been bred ami fed on natural grass alone, 10 guim

For the second bust experiment, 5 guinea

». 13. ThesepreMHun* wiU not be allowed, unless the experiment in every case has extended to at least live shear boxs of some distinct breed.

For the beet ox under three years old, the time when calved being ascertained as nearly as may be, 0 guineas

For the second best. 4 guineas.

For IUe best ox under four years okl, 5 guineas.

For the second beat, 3 guineas,

N, JJ. To have been fed with grass and vcgetables

For the best ox that shall have been worked from **thrt** v^urs old off, to six yeais old off, or longer, the age ben Allied, y guineas.

For the etecoad best ditto, 4 guineas.

N.1S. To have been fed with gra^s and vegetables, or cake/ but in case the. latter *hw* been need, an account of tile quantity consumed to be produced.

To the **person** who shall make the best experiment tmn* -liorti-st report ≪u the practical effects of hine on the va» of liitid, 20 guim

To the person who **shall** state the best **manner of forming** con Jiills, mtntioning;**their Inatenals, quantsty**

abace, 5 gumens.

MISCELLANEOUS ARTICI.KS.

170

For the best conducted **experiment**, ascertaining the i lative advantages to be derived from soiling ur grazing cattle in the usual way, 10 guineas.

For the same experiment with sheep, 10 guineas.

To the person who SIK11 have cleared not less than five acres of laud from ant-hills, within one year, in the best : most.effectual manner, the expense bein. Committee, and it being understood that no premium will be allowed without proof of the efficacy of the measure for three years, 20 guineas.

1 he following Premiums are proposed to be offered for Servants:

To the person having $l_{1:j(j)}$ the care of ileep to be exhibited lor the premiums, ^ that shall appear to have rendered the most effectual service to hi* master in the a ••ityot a shepherd, 3 guinea*,

N.B. The claim for the premiums to be accompanied fay a testimonial from the master as to the good conduct of **Ibemam which** testimonial is to state the number of <Jicep uuder such servants' care, the number of Jambs reared, *mi* "Iher circumstances connected with such servants'duty, so as to enable the Committee to form a correct j w W n t of lus merit.

To the man who shall make the experiment as to tor which a premium shall be obtained, 1 guinea.

To the scmnt that, hall be employed in the working of horses and oxen, in husbandry work, on which a premium offered by this .Society shall be awarded, 3 guineas.

At this meeting, Lord R. Manners and the Rev. P. Story were unanimously elected members of **this** Sod-

In compliment to the services rendered by Mr. Coolie in his office of secretary, it is unanimously re rived that a

NG

180 MISCELLANEOUS ARTICLES.

a piece of plate of 20 guineas value, (which Col. Noel, the president, is requested to procure) be presented to him. The meeting was then adjourned. Signed,

G. N. NOEL.

Col. Noel having left the chair, the unanimous thanks of the meeting were voted to him for his unremitted attention to the prosperity of the landed interest, by encouraging the improvement of the agriculture of the united counties of Leicester and Rutland.

APPENDIX.

THE Earl of Winchelsea's dike for washing shecp_f being one of the most complete 1 ever saw, I requested a sketch of it, and was favoured with one by his lordship's agent, from whish the subjoined sketch was taken. I very much recommend the plan to those who are so situated, in point of water, &c. as to have-it in their power to adoi *t* it. It would also be ver^T advantageous for farmers living in three or four different parities, to make a subscription dike after the plan; the conveiiency and prevention of accidents would soon repay them for the expense, &c. attending the carrying it into execution.

One very principal advantage of the wash-dike is, tli« comfort which the washer receives from being dry, instead of standing the whole day in water, which is extremely injurious to his health.

REFER-

REFERENCE

21? Earl JViuckehea's Sheep I Task-Dike, at JBurJ*

- a. THE pit for soaking, 12 feet long, 8 fee! and 4 fei depth.
- h. The channel where die sheep fire washed, \'Z feet long, 9 feet 4 ind«ss witU-, and 3 fett 6 inches deep,
- u all.
- rf. Stop-gate, to let cfT the water in ruse of **floods** n die pit **tying;** on **each** aide tins **stop-gate there** an lilies, at two incht •• top-water-mart, to let off tli\$ waste water **into the** outlet drain.
- t Parapet trait, 3 feet 9 inches in height.
- *f.* Stop-gate, terd with top-water-mark, bo that when there more water than will jjasa through the two holes* btfore-i tioued, at the sides of stop-gnte <*l*, it runs over thi
- Along tfiii dotted line is a pavul tliunnel to take off the which run from the sheep ;it their binding, and conduct into the outlet <train, BO tlmt it mny not run i t of tlie wabh-dike **again.**
- *h*. The fold for the sheep, previous to their being three soak ing-pit.
- nhcep folds.
- Outlet drain to take oil* thfiftraste water.
- House fur the cloatlis of the men, implements, &c. &c.
- Waste ground betwixt the river and the wash-dike.
- ina.Uh of water when held up by the stop-gates.
- Landing place for the **sheep after** they have *i* **been shown**
- The course of the river.

REFER-





REFERENCES

7« Earl Winchtlsea** CQW-HOUM, at Barley.

IN THE UPPER SKETCH.

Ire door ways, 3 **feet \$ inches** each wide, and 9 feet i f>b. Space betwixt each **cow-tie or fastener.**

Represent the coiv-ties when closed, and-us **they** .tjipfar when the **cow** i ihem.

Id. Represent the cows-ti **thej appt:ir previous** to

[i ledges are grooves ur. and there btiug ;\ joini at tTit Iiintkr part of them, t ,' or down, rtiid the cow*ti« opened or shnc at pleasure.

IN THE LOWER SKETCH.

Is a pa^snge at f

t'eet wit!'

A cow, as tied or fastened ap.

-pace **allotted for** the cows *tanrJi^2, ft feet deep.

k .Sjace behirn! tin uches in widdi.

The cows are only put in the ties mar leed r, tin the cost of the

The following List comprises the Names of the Gentlemen to whom I am indebted for the Information obtained, respecting the several Parishes, fyc. in this County : I take this Method of returning them my sincere Thanks.

PLACES.

GENTLEMEN'S NAMES.

Aslnvell, Mr. William Webster.	
Ayston, • George Fludyer, Esq.	
Barleythorpe, . • • Mr. Thomas Hand.,,	
Barrow,	
Barrowden, Mr. John fiaines.	
Belton,	
Bishbrooke, Mr. W. Green.	
Braunston, • • • • Rev. Richard Lucas.	
Brooke,	
Burley, Mr. Henry Wilson.	
Caldecot, Mr. Edward Muggleton.	
Clipsham, Rev.—Snow, T. Hack, H	lsq.
Cottesmore, Mr. Thomas Dean.	
Dry Stoke, Tlionras Brien, Esq.	
Edithweston, • Robert Tonilin, Esq.	
Egleton Messrs. Stimson and Wilson	l•
Empingham, Mr. Thomas Sysson.	
Essendine, Mr. W. Lupton.	
Exton and Flittoris, • Wm. Chapman, Esq.	
G lays ton, » • John Stranger, Esq.	
Greetham,Gilson, Esq.	
Gunthorpc, Mr. John Barrett.	
Hambleton, Mr. H. Wilson.	
Ketton, Mr. W. Wilford.	

PLACES*

PLACES.	GENTLEMEN'S NAMES.
. Langham	. W. Chapman, Esq.
Little Casterton, .	• Mr. Robert Hare.
Lyddington,	Mr* Peach.
Lynden,	.Samuel Barker, Esq.
LeafieIds&Martinsthor	pe,Mr. H. Wilson.
Manton,	Mr. Thomas Lester.
Market Overton, .	P Rev. J. Hopkinson.
Morcot,	Mr. W. Barrow.
Normanton,	Mr. Thomas Sysson.
North Luffenhatn • .	John Morris, Esq.
Oakham, «	Messrs. Banton and H. Wilson.
Pickworth,	Mr. John Clarke.
Pilton,	John Fancourt, Esq.
Preston,	.W. Laurence, Esq.
Ridlington,	F. Cheseldine, Esq.
Ryall,	Mr. W. Lupton.
Seaton,	.Rev. —— Robinson.
South Luffenbam,	\ ^{Messrs} , ^{M]ea} >Springthorpe,
	t and Pridemore .
Stretton,	Mr* Thomas Sysson.
Teigh,	"Mr. John Hinman.
Thistleton, • •	Mr. John Goodfellow.
Thorpe,	Mr. H. Baines.
Tickencote,	John Wingfield, Esq.
Tinwell,	Rev. Thomas Foster.
Tixover,	Mr. V. Godfrey.
Uppingham,	Messrs. Bullock and Clifton.
Wardley,	George Godfrey, Esq.
Wing,	Mr. R. Gregory.
Wissendine,	Wr. W. Floor.
Witnell,	Win. Chapman, Esq.

' RUTLAND.]

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ii An

An Account of Earl JVinchilsea's Farm Stock at Bur ley> in August, 1806.

ARABLE LAND.

				A.	R.	p.			
In wheat,	-	-	-	13	2	33			
— barley,	-	•	-	21	0	0			
— oats,	-	•	-	29	0	0			
— beans,	-	-	-	6	0	0			
— peas,	-	-	-	8	0	0			
— tares,	- •	-	-	2	0	0			
— rye,	-	-	-	1	0	0			
— buckwheat,	,	-	-	4	2	0			
- spring, do.		-	-	2	0	0			
— potatoes,		+	*	2	0	0			
— Swedish tu	ırnips,	-	-	9	2	0			
— white, do.		•	-	5	2	0			
— cole-worts,	,	-	-	• 5	0	0			
— cabbage,	-	-	-	1	2	0			
•••" seeos,	~	••	-	71]	0			
Total in crop	ping,	-	-	481	3	33			
Su pposed to 1 hedges,	be taken	up by	ž	2	0	0			
8 /			-						
Total arable l	and,	-		-		-	183	3 8	5S
N. B. Mor	e seeds t	this ye	ar t	han i	s us	sual.			
Grazing land,		-		-	•	•	214	0	35
Wood land so	metimes	graze	d,			-	94	1	34
Meadow land	,	-		-		-	59	0	0
			T	4 1					
			Ĩ	otal,		-	551	2	22

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STOCK.

STOCK.

CATTLE.

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Beast feeding	-		-		46']	
Draught beasts		-		-	10	
Stores, includin	g yo	ung	heifers,	&c.	26	
Milch cows	-	_	-	-	20	125
Calves rearing		-		-	20	
Bulls *		-		•	3	

SHJEEP.

·

Breeding Lambs Shear ho Theaves Ewes and Rams	gs - l sheep feed	- ing -		197 222 304 181 58 4	966
Pigs	-	*		•	. 6l
Horses k work o	ept, but not f the farm	half of -	them j	for the	
		Total	of Live	e Stock	• 1163

rons.

48 T.

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J.O. Bernard, Printtr, Chimner-Street.

DIRECTIONS TO THE BINDER,

FOR PLACING THE PLATES.

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Sketch of Earl Winchilsea's Cow-House, at Burley	U3

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DIRECTIONS TO THE BIXDZR,

FOR PLACING THE PLATES.

tbree F	Plans	s of C	ottage Houses			«.	Page 2*
Sketch	of	Earl	Winchilsea's	Sheep	Wash-Dike,	at	
Burley	у	· · · · <u>·</u>			100		_igj
Sketch	of E	Earl V	Vinchilsea's Co	ow-Hou	se, at Burley	,,	183

ERRATA.

Page 34, line 4, from the top, for *to* read *txco*, 132,- 15, ______for *crag* read *scrag*. 133, - 13, from the bottom, for *wool* read *not* linn, ____], • • • nr/i'inf *tiea* read *and other tin*,