

**CHROMOSOME ATLAS OF
FLOWERING PLANTS
OF THE
INDIAN SUBCONTINENT**

**VOLUME II
MONOCOTYLEDONS
&
BIBLIOGRAPHY**

**VIRENDRA KUMAR
B. SUBRAMANIAN**

BOTANICAL SURVEY OF INDIA

**Chromosome Atlas of
Flowering Plants
of the
Indian Subcontinent**



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**Volume II
MONOCOTYLEDONS
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BIBLIOGRAPHY**

**Virendra Kumar
&
B. Subramaniam**



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To
Our Parents

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AGAVACEAE Endl.

20/670 ; tropics and subtropics. 9/43 ; hotter parts of India, and Bangla Desh and Sri Lanka many cultivated.

Agave Linn.

300 ; Southern United States to tropical South America. 6 ; cultivated and naturalized.

americana Linn.

20 Müller, C. 1912

60 MacKelvey, S.D. & Sax, K. 1933 ;
Matsuura, H. & Satô, T. 1935

60, 120,

180 (118,

119) Granick, E.B. 1944

120 Inariyama, S. 1937 ; Sharma, A.K. &
Bhattacharyya, U.C. 1961c

120 (44,

96, 104,

110, 115,

125, 134) Sharma, A.K. & Bhattacharyya, U.C.
1962

120, 240 Satô, D. 1935b, 1938, 1942

cantala Roxb.

90 Doughty, L.R. 1936

sisalana Perr.

c. 138 Doughty, L.R. 1936

149 Granick, E.B. 1944

150 Inariyama, S. 1937 ; Vignoli, L.
1937 ; Satô, D. 1938, 1942

vivipara Linn.

60 Satô, D. 1935b, 1938, 1942 ;
Mahabale, T.S. & Bhat, F.D. 1941 ;
Sharma, A.K. & Bhattacharyya, U.C.
1962

wightii Drumm. & Prain

180 Sharma, A.K. & Bhattacharyya, U.C.
1961c

180 (52) Sharma, A.K. & Bhattacharyya, U.C.
1962

Cordylina Comm. ex Juss.

15 ; tropics and warm temperate. 2 ;
cultivated or occur as escapes in the Eastern
Himalaya.

australis Hook. f.

38 Bowden, W.M. 1940a, 1945a ;
Rattenbury, J.A. 1957

120 Matsuura, H. & Satô, T. 1935

terminalis (Linn.) Kunth

c. 152 Rattenbury, J.A. 1957

Dracaena Vand. ex Linn.

150 ; warm Old World. 9 ; chiefly
distributed in Khasi Hills and Andaman
Islands, and Bangla Desh a few cultivated.

angustifolia Roxb.

40 Sarkar, A. K., Mallick, R. *et al.* 1977

draco Linn.

38 Bowden, W.M. 1940a, 1945a

40 Borgen, L. 1969 ; Bramwell, D. *et al.*
1972

metallica Hort.

14, 16, 21,

24, 28, 30,

32, 34, 35,

36, 38, 40,

42, 44, 46,

49, 50, 52,

56, 62, 63,

70, 77, 84 Datta, P.C. 1971a

terniflora Roxb.

80 Sheriff, A. & Singh, B.K.S. 1973

Furcraea Vent.

20 ; tropical America. 6 ; cultivated, a
few naturalized.

bedinghausii C. Koch

60 MacKelvey, S.D. & Sax, K. 1933 ;
Whitaker, T.W. 1934

foetida (Linn.) Haw.*gigantea* Vent.

18 Catalano, G. 1930

- 34 Abraham, Z. & Prasad, P.N. 1930
 60 Whitaker, T.W. 1934; Matsuura, H. & Sudo, T. 1935; Satō, D. 1935a, 1938, 1942; Inariyama, S. 1937

selton C. Koch

var. *marginata* Treli.

lindeni Jacobi

- 44-46 Heitz, E. 1926

Nolina Michx.

30; South West United States and Mexico. 1; cultivated.

longifolia (Schult. & Schult. f.) Hemsl.

- 20 Gloeli, F. 1933
 40 Sarkar, A.K., Datta, N. & Chatterjee, U. 1978

Phormium J.R. & G. Forst.

2; New Zealand. 1; cultivated.

tenax J.R. & G. Forst.

- 32 Satō, M. 1932; Satō, D. 1942, 1953; Cavé, M.S. 1955; Hair, J.B. & Beuzenberg, E.J. 1966

Polianthes Linn.

13; Mexico and Trinidad. 1; cultivated.

tuberosa Linn.

- 50, 60 Sharma, A.K. & Ghosh, C. 1956
 60 Whitaker, T.W. 1934; Satō, D. 1935b, 1938, 1942; Datta, N. 1941a
 120 Ayyangar, K.R. 1963

Sansevieria Thunb.

60; tropical and South Africa, Madagascar and Arabia. 13; Coromandel coast, and Sri Lanka a few introduced and cultivated.

aethiopica Thunb.

- 14 de Wet, J.M.J. 1957
 40 Menzel, M.Y. & Pate, J.B. 1960

cuspidata Carr.

- 42 Sharma, A.K. & Chaudhuri, M. 1964

- 80 Menzel, M.Y. & Pate, J.B. 1960; Nazzer, M.A. 1979

caulescens N.E. Brown

- 40 Nazzer, M.A. 1979

cylindrica Bojer

- 18 Sarkar, A.K., Mallick, R. *et al.* 1977
 40 Roy, M. 1956
 84 Roy, R.P. & Mishra, N.C. 1961b
 92 Sharma, A.K. & Chaudhuri, M. 1964
 102-104 Heitz, E. 1926
 112 Nazzer, M.A. 1979
 120±1 Menzel, M.Y. & Pate, J.B. 1960

gracilis N.E. Brown

- 42 Parker, J. 1955
 60 Nazzer, M.A. 1980

intermedia N.E. Brown

- 40 Nazzer, M.A. 1979

pearsonii N.E. Brown

- 40 Nazzer, M.A. 1979

powellii N.E. Brown

- 120 Nazzer, M.A. 1979

roxburghiana Schult.

- 40 Patel, J.S. & Narayana, G.V. 1937; Satō, D. 1942; Roy, R.P. & Mishra, N.C. 1961b; Sharma, A.K. & Chaudhuri, M. 1964

trifasciata Prain

- 36 Sharma, A.K. & Chaudhuri, M. 1964
 40 Menzel, M.Y. & Pate, J.B. 1960
 42 Parker, J. 1955 (Menzel, M.Y. & Pate, J.B. 1960)

zeylanica (Linn.) Willd.

- 40 Takagi, N. 1938; Satō, D. 1942
 40, 42 Matsuura, H. & Sudo, T. 1935
 42 Janaki Ammal, E.K. (D. 1945); Sarkar, A.K., Mallick, R. *et al.* 1977

Yucca Linn.

40; Southern United States, Mexico and West Indies. 3; cultivated and naturalized.

aloifolia Linn.

- 42 Sharma, A.K. & Sarkar, A.K. 1964b; Sarkar, A.K., Datta, N. & Chatterjee, U. 1978
 c.54-56 Müller, C. 1909, 1912

- 60 Matsuura, H. & Suo, T. 1935 ;
Satô, D. 1935b, 1942, 1953 ; Watkins,
G.M. 1936
60-62 Lewitsky, G.A. 1931a
filamentosa Linn.
50 Sharma, A.K. & Sarkar, A.K. 1964b
c. 60 Taylor, W.R. 1925
60 Morinaga, T. *et al.* 1929 ;

- MacKelvey, S.D. & Sax, K. 1933 ;
Satô, D. 1935b ; Watkins, G.M. 1936
gloriosa Linn.
c.50 Bonnet, J. 1912
50 Sharma, A.K. & Sarkar, A.K. 1964b
60 Subramanian, D. 1973b ; Bhatta-
charya, G.N. & Dutta (Ghose), R.
1978

ALISMATACEAE Vent.

13/90 ; cosmopolitan. 5/8 ; throughout India, abundant in the plains, and Pakistan and Sri Lanka.

Alisma Linn.

10 ; North temperate and Australia. 2 ;
Himalaya (up to 2,310 m), and Pakistan
and Sri Lanka.

plantago-aquatica Linn.

- 10 Wulff, H.D. 1939a ; Wewetzer, H.
Von 1956
12 Liehr, O. 1916 ; Löve, A. & Löve, D.
1942a ; Palmgren, O. 1943 ; Tarnavsc-
hi, I.T. 1948 ; Baquar, S.R. & Abid
Askari, S.H. 1970a, b
14 Heppel (Maude, P.F. 1939) ; Oleson,
E.M. 1941 ; Erlandsson, S. 1946 ;
Löve, A. & Löve, D. 1948 ;
Tschermak-Woess, E. 1948 ; Pölya, L.
1949 ; Löve, A. 1954b ; Garajová, S.
1959 ; Banach-Pogan (Skalińska, M.
et al. 1961) ; Björkqvist, J. 1961,
1968 ; Mikkola, L. 1961 ; Pogan, E.
1962, 1963, 1968a ; Gadella, T.W.J. &
Kliphuis, E. 1963 ; Sokolovskaya,
A.P. (Fedorov) ; Larsen, K. 1965a ;
Briggs, B.G. 1966 ; Alexanderova,
L.A. 1967 ; Laane, M.M. 1969b ;
Májovský, J. *et al.* 1970a ; Bohdano-
wicz, J. 1973 ; Mehra, P.N. &
Pandita, T.K. 1978
14, 16 Hagerup, O. 1944
14, 16, 28 Wulff, H.D. 1950
14, 28 Hendricks, A.J. 1957
16 Sharma, A.K. & Mukherji, R.N.
1955
28 Priestley, C.A. 1953

ssp. plantago-aquatica

- 14 Pogan, E. 1968b

Caldesia Parl.

4 ; palaeotropics. 3 ; plains and marshes
of India, ascending hills up to 1,660 m.

parvasifolia Parl.

- 22 Datta, N. 1965 ; Subramanyam, K.
& Kamble, N.P. 1966

reniformis Makino

- 22 Harada, I. 1956

Limnophyton Miq.

3 ; tropical Africa, Madagascar, India
to Indo-China, Java, and Timor. 1 ; through-
out India, and Sri Lanka.

obtusifolium (Linn.) Miq.

- 22 Sheriff, A. & Nagaraj, M. 1966 ;
Krishnappa, D.G. 1967, 1971 ;
Sharma, A.K. & Chatterjee, T. 1967 ;
Ayyangar, K.R. 1972
22, 24 Ayyangar, K.R. & Sampathkumar, R.
1979
24 Murthy, S.K.N. 1933 ; Brown, W.V.
1946b

Sagittaria Linn.

20 ; cosmopolitan, abundant in
America. 2 ; throughout India.

guayanensis HBK*

- 22 Mehra, P.N. & Pandita, T.K. 1979

sagittifolia Linn.

- 16 Liehr, O. 1916
-
- 20 Nawa, N. 1928
-
- 20-22 Lohammar, G. 1931a; Delay, C. 1947

- 22 Tischler, G. 1934; Vaarama, A. 1941; Löve, A. & Löve, D. 1942a; Brown, W.V. 1946b; Löve, A. 1954b; Larsen, K. 1963b; Pogan (Skalińska, M.
- et al.*
- 1966); Sharma, A.K. & Chatterjee, T. 1967; Björkqvist, I. 1968; Schotsman, H.D. 1970; Mehra, P.N. & Pandita, T.K. 1978

ALLIACEAE J.G. Agardh

30/600; cosmopolitan (excluding Australasia). 2/38; temperate and alpine Himalaya, and Nepal, Bhutan, Pakistan, Bangla Desh and Sri Lanka - a few cultivated.

Agapanthus L'Hérit.

- 5; South Africa. 1; cultivated.

africanus (Linn.) Hoffm.

- 30 Geitler, L. 1933

umbellatus L'Hérit.

- 30 Guignard, L. 1884; Belling, J. 1928; Darlington, C.D. 1933a; Matsuura, H. & Sutō, T. 1935; Mookerjee, A. 1955b; Lima-de-Faria, A. & Sarveilla, P. 1958; Sharma, A.K. & Mukhopadhyay, S. 1963a; Pogosjan, A.I. (Fedorov)
-
- 32 Stenar, H. 1933

Allium Linn.

450; Northern hemisphere. About 37; temperate and alpine Himalaya, and Nepal, Bhutan, Pakistan, Bangla Desh and Sri Lanka - a few cultivated.

albessense Grossh.

- 32 Mehra, P.N. & Pandita, T.K. 1978

griffithianum Boiss.

- 16 Vakhilov, L.I. 1964, 1971

ascalonicum Linn.

- 16 Hirata, K. & Akibama, K. 1927; Levan, A. 1931; Koshy, C.K. 1934; Cochran, F.D. 1950; Darlington, C.D. & Haque, A. 1955; Battaglia, E. 1957b; Gohil, R.N. & Koul, A.K. 1973; Aryavand, A. 1975

atropurpureum Waldst. & Kit.

- 16 Levan, A. 1935; Dietrich, J. 1969; Gohil, R.N. & Koul, A.K. 1973; Mehra, P.N. & Pandita, T.K. 1979

atrosanguineum Schreb.

- 32 Zhukova, P.G. 1967b

bakeri Regel

- 32 Morinaga, T. & Fukushima, E. 1931a; Katayama, Y. 1936; Gohil, R.N. & Koul, A.K. 1973

blandum Wall.

- 32 Mehra, P.N. & Sachdeva, S.K. 1971, 1976b; Gohil, R.N. & Koul, A.K. 1973; Mehra, P.N. & Pandita, T.K. 1979

cepa Linn.

- 8, 16, 18,
-
- 20, 22, 24,
-
- 26, 27, 28.

**Sagittaria guayanensis* *auct. pl.*, non HBK, FBI, 6: 561, is a synonym of *S. guayanensis* HBK ssp. *lappala* (D. Don) Bogin (HFDD: 543).

- 72 (in
callus) Yamano, Y. 1975
- 16 Nemes, B. 1898, 1910; Schaffner,
J.H. 1898; Miyake, K. 1905;
Lundegårdh, H. 1910; Grégoire, V.
1912; Schustow, L. von 1913;
Modilewski, J. (Fedorov); Levan, A.
1931, 1935, 1936a; Emsweller, S.L.
& Jones, H.A. 1935; Krivenko, A.A.
1935; Ono, Y. 1935; Mensinkai,
S.W. 1939, 1940; Singh, A. 1940a;
Brumfield, R.T. 1941; Lorenzo-
Andreu, A. 1951; Battaglia, E.
1957b; Bozzini, A. 1964; Kurita, M.
1968; Martagne, R. 1968; Bennett,
M.D. & Rees, H. 1969; Wagenaar,
E.B. 1969; Saini, S.S. & Davis, G.N.
1970; Cheshmedzhiev, I. 1973; Ved
Brat, S. & Dhingra, B. 1973; Kaul,
C.L. 1975; Abraham, S. *et al.* 1976;
Rees, H. *et al.* 1979; Gohil, R.N. &
Kaul, R. 1980a
- 16, 32 D'Amato, F. 1948; Bhattacharyya,
R. 1976
- var. *cepa*
- 16 Gohil, R.N. & Koul, A.K. 1973;
Kaul, M.L.H. 1977
- var. *viviparum* (Metz.) Alef.
- 16 Iwasa, S. 1970
- 16, 24 Singh, F. *et al.* 1967; Singh, F. *et al.*
(Khoshoo, T.N. 1979)
- 24 Gohil, R.N. & Koul, A.K. 1973
- chinense* G. Don
- 24, 32 Ved Brat, S. 1965a
- 32 Gohil, R.N. & Koul, A.K. 1973
- consanguineum* Kunth
- 16 Mehra, P. N. & Sachdeva, S.K. 1971,
1976b; Gohil, R.N. & Koul, A.K.
1973, 1978; Gohil, R.N. & Kaul, R.
1980a
- 16+0-1B Mehra, P.N. & Pandita, T.K. 1978
- fedtschenkorum* Regel
- 16 Mehra, P.N. & Pandita, T.K. 1979
- fragrans* Linn.
- 18 Levan, A. 1935
- egvanianum* Wall.
- 16 Gohil, R.N. & Koul, A.K. 1973
- humile* Kunth
- 16 Mehra, P.N. & Sachdeva, S.K.
1975b; Mehra, P.N. & Pandita, T.K.
1978
- kachrooi* Singh
- 16 Mehra, P.N. & Pandita, T.K. 1978;
Gohil, R.N. & Kaul, R. 1980a
- blacinum* Royle
- 16 Ved Brat, S. 1965a, b
- macleanii* Baker
- 16 Mehra, P.N. & Pandita, T.K. 1979
- macranthum* Baker
- 14 Ved Brat, S. 1965b
- 28 Levan, A. 1931, 1932, 1934;
Mensinkai, S.W. 1940; Berger, C.A.
et al. 1961; Dietrich, J. 1967
- neapolitanum* Cyr.
- 14 Ved Brat, S. 1965a
- 14, 21, 28,
35 Hattersley-Smith, M.K. 1956
- 14, 28 Levan, A. 1935
- 21, 35 Kefallinos (D. 1955)
- 28 Levan, A. 1931; Feinbrun, N. 1950
- 35 Khoshoo, T.N. & Sharma, V.B.
1959b; Khoshoo, T.N. 1966; Ved
Brat, S. 1967; Gohil, R.N. & Koul,
A.K. 1973
- nigrum* Linn.
- 16 Messeri, A. 1931; Levan, A. 1935;
Mensinkai, S.W. 1939, 1940; Gohil,
R.N. & Kaul, R. 1980a
- oreoprasum* Schrenk
- 16 Vokhtina, L.I. 1964, 1965;
Dietrich, J. 1967; Gohil, R.N. &
Koul, A.K. 1973; Kaul, R. & Gohil,
R. 1980a
- 48 Ved Brat, S. 1965a
- platyspathum* Schrenk
- 16 Zhukova, P.G. 1967b
- var. *taicatum* Regel
- 32 Gohil, R.N. & Koul, A.K. 1973;
Gohil, R.N. 1979
- porrum* Linn.
- 32 Levan, A. 1931, 1935, 1940c;
Nakajima, G. 1936; Kadry, A. *et al.*
& Kamel, S.A. 1955; Kurita, M.
1955f; Murin, A. 1964; Cheshmedz-
hiev, I. 1973; Mehra, P.N. & Pandita,
T.K. 1979; Kaul, R. & Gohil, R.N.
1980b

32, 32+1

-5B Shopova, M. 1966a

32, 32+1

-6B Nybom, N. 1947

ampeloprasum Linn.

16 Renzoni-Cela, G. 1964; Ved Brat, S. 1965a, b; Arcuads, J.C. & van der Laan, F.M. 1979

16, 24, 32

40, 48 Kollman, F. 1971a

16, 32 Creschmedjiev, J.V. 1971

32 Maude, P.F. 1939, 1940; La Cour (D. 1945); Koul, A.K. & Gohil, R.N. 1970a; Gohil, R.N. & Koul, A.K. 1977

32, 40, 48

Von Bothmer, R. 1970b

32, 48 Gohil, R.N. & Koul, A.K. 1973

48 Khoshoo, T.N. *et al.* 1960; Mehra, P.N. & Pandita, T.K. 1978*ssp. ampeloprasum*

32, 40, 48 Kollman, F. 1971b, 1972

var. ampeloprasum

46 Olah, L.V. & De Filippa, R.A. 1969

prattii Wright

32 Hara, H. & Kurosawa, S. 1963a; Kurosawa, S. 1966

ramosum Linn.

16, 32 La Cour (D. 1945)

odorum Linn.

26, 28, 30,

32, 34, 36 Håkansson, A. & Levan, A. 1957

32 Schürhoff, P.N. 1922 (Löve, A. & Löve, D. 1961b); Haberlandt, G. 1925; Modilewski, J. (Fedorov); Levan, A. 1931; Ono, Y. 1935; Katayama, Y. 1936; Delay, C. 1947; Håkansson, A. 1951; Yamaura, A. 1953; Vig, B.K. & Mehrotra, H.N. 1965; Dietrich, J. 1967; Sokolovskaya, A.P. (Fedorov); Zhukova, P.G. 1967b; Jacobsen, T.D. & Ownbey, M. 1977

rubellum Bieb.

16 Levan, A. 1931; Mehra, P.N. & Pandita, T.K. 1978

16, 24, 32 Gohil, R.N. & Koul, A.K. 1973

24 Khoshoo, T.N. & Sharma, V.B. 1959a; Khoshoo, T.N. 1966; Ved Brat, S. 1967

32 Koul, A.K. *et al.* 1971*var. parviflora* Ledeb.*parviflorum* Viv.

16 Martinoli, G. 1954, 1955a; Contandriopoulos, J. 1957a, c

sathum Linn.16 Katayama, Y. 1928; Levan, A. 1931, 1935; Ono, Y. 1935; Krivenko, A.A. 1936, 1938; Mensinkai, S.W. 1939, 1940; D'Amato, F. 1950; Khoshoo, T.N. & Sharma, V.B. 1957; Khoshoo, T.N. *et al.* 1960; Battaglia, B. 1963; Gvalagze, G.E. 1964; Koul, A.K. & Gohil, R.N. 1970b; Cheshmedzhiev, I. 1973; Gohil, R.N. & Koul, A.K. 1973; Narain, P. & Raina, S.N. 1975; Roy, S.C. 1978; Verma, S.C. & Mittal, R.K. 1978; Koul, A.K. *et al.* 1979

18 Sharma, A.K. & Bal, A.K. 1959

var. sativum

11, 16, 22,

31, 32 Novak, F.J. 1974

schoenoprasum Linn.16 Messeri, A. 1931; Sakai, K. 1934; Tischler, G. 1934; Matsuura, H. & Suñ, T. 1935; Ono, Y. 1935; Levan, A. 1937b; Sokolovskaya, A.P. & Srelkova, O.S. 1948a; Löve, A. 1954b; Kurita, M. 1955f; Contandriopoulos, J. 1957b; Sokolovskaya, A.P. 1960, 1963; Berger, C.A. *et al.* 1961; Gvalagze, G.E. 1964; Packer, J.G. 1964; Zhukova, P.G. (Fedorov); Ved Brat, S. 1965b; Taylor, R.L. & Brockman, R.P. 1966; Dietrich, J. 1967; Májovský, J. *et al.* 1970b; Marchi, P. 1971a; Poghosian, A.J. *et al.* 1971; Mehra, P.N. & Pandita, T.K. 1979

16, 24 Woess, E.T. 1947; Shimizu, Y. 1959

16, 24, 32 Levan, A. 1936b

16, 32 Levan, A. 1931, 1935; Turesson, G. 1931b; Rohweder, H. 1937

16+1B Cheshmedzhiev, I. 1975

sikkimensse Baker

32 Levan, A. 1931

stracheyi Baker

14+2-

10B Shopova, M. 1966a

- 14 + 2
-10B, 28 Sharma, A.K. & Aiyangar, H.R. 1961
16 Kumar, V. 1964-1965a ; Gohil, R.N. & Koul, A.K. 1973 ; Mehra, P.N. & Sachdeva, S.K. 1976b ; Mehra, P.N. & Pandita, T.K. 1978
1-9B Sen, S. 1974b
- thomsonii* Baker
32 Gohil, R.N. & Koul, A.K. 1973 ; Mehra, P.N. & Pandita, T.K. 1978
- tibeticum* Rendle
16 Mehra, P.N. & Pandita, T.K. 1979
- tuberosum* Rottl. ex Spreng.
32 La Cour (D. 1945) ; Kurita, M. 1962 ; Mathur, M. & Tandon, S.L. 1965 ; Kumar, V. & Pahuja, A.N. 1967a ; Dietrich, J. 1972 ; Gohil, R. N. & Koul, A.K. 1973 ; Sen, S. 1974a ; Mehra, P.N. & Sachdeva, S.K. 1976b ; Gohil, R.N. *et al.* 1977 ; Jacobsen, T.D. & Ownbey, M. 1977 ; Sen, B.-B. 1977 ; Mehra, P.N. & Pandita, T.K. 1979
- victoralis* Linn.
16 Leván, A. 1930, 1931, 1935 ; Sokolovskaya, A.P. & Streikova, O.S. 1948a ; Fernandes, A. 1950 ; Pólya, L. 1950 ; Dietrich, J. 1967 ; Lee, Y.N. 1967 ; Zhukova, P.G. 1967b ; Skalińska, M. *et al.* 1968 ; Lovka, M. *et al.* 1971 ; Susnik, F. *et al.* 1972 ; Mizianty, M. & Frey, L. 1973 ; Mehra, P.N. & Sachdeva, S.K. 1976b ; Mehra, P.N. & Pandita, T.K. 1978 ; Váňková, M. 1980
16, 32 Miyake, K. 1905
32 Hirata, K. & Akihama, K. 1927 ; Leván, A. 1929 ; Sakai, K. 1934 ; Matsuura, H. & Satō, T. 1935 ; Satō, D. 1942 ; Ono, R. 1960 ; Sokolovskaya, A.P. 1963
36 Sharma, A. & Sarkar, A.K. 1967-1968
- waltchianum* Steud.
16 Mensinkat, S.W. 1939, 1940
32 Ved Brat, S. 1965a
- waltchii* Kunth
14 Kurosawa, S. 1971b
- sp.
16 Kumar, V. & Chauhan, K.P.S.
- sp.
32 Datta, N. 1941c
- sp.
72 Kumar, V. & Chauhan, K.P.S.

AMARYLLIDACEAE Jaume St.-Hil.

85/1,100 ; tropics and subtropics. 18/82 ; chiefly cultivated, native ones mostly distributed in South Western India, and Nepal, Bangla Desh and Sri Lanka.

Amaryllis Linn.

1 ; South Africa. Cultivated.

bolle-donna Linn.

- 20 Fernandes, A. 1929-1930, 1930, 1931
22 Inariyama, S. 1937 ; Satō, D. 1938, 1942 ; Ficker, T. 1951 ; Sharma, A.K. & Jash, M. 1958a ; Traub, H.P. 1958 ; Larsen, K. 1960 ; Kapoor B.M. & Tandon, S.L. 1963a

Hippeastrum equestre Herb.

- 22 Snood, B. 1952
22 + f Mookerjee, A. 1955b

Clivia Lindl.

3 ; South Africa. 1 ; cultivated.

robilis Lindl.

- 22 Inariyama, S. 1937
44 Satō, D. 1938, 1942

Crinum Linn.

100-110 ; tropics and subtropics. 25 ; mostly in Southern India, and Nepal, Bangla Desh and Sri Lanka - many cultivated.

- americanum* Linn.
22 Raina, S.N. & Khoshoo, T.N. 1971c ;
Raina, S.N. 1978
- amoenum* Roxb.
18, 22 Sharma, A.K. & Bai, A.K. 1953
22 Sharma, A.K. & Ghosh, C. 1954b ;
Bose, S. 1965 ; Raina, S.N. &
Khoshoo, T.N. 1971c ; Raina, S.N.
1978
- asiaticum* Linn.
22 Nagao, S. & Takusagawa, H. 1932 ;
Matsura, H. & Satō, T. 1935 ;
Inariyama, S. 1937 ; Suita, N. 1937 ;
Satō, D. 1938, 1942 ; Delay, C. 1947 ;
Dolcher, T. 1950 ; Sharma, A.K. &
Ghosh, C. 1954b ; Bose, S. 1965 ;
Khoshoo, T.N. & Raina, S.N. 1968 ;
Raicu, P. *et al.* 1971 ; Raina, S.N. &
Khoshoo, T.N. 1971c ; Raina, S.N.
1978
- augustum* Roxb.
22 Bose, S. 1965
32, 33 Mihgo, J. 1962
32, 32+
te, 33, 33
+ te, 34,
37 + te
32 + te, 33 Raina, S.N. & Khoshoo, T.N. 1971c ;
Raina, S.N. & Khoshoo, T.N. 1971c ;
Khoshoo, T.N. 1979
32 + 1, 33 Khoshoo, T.N. & Raina, S.N. 1976
33 Raina, S.N. & Khoshoo, T.N. 1971a ;
Raina, S.N. 1978
- bulbospermum* (Burm. f.) Milne-Ridg. & Schweick.
66 Fernandes, A. & Nevez, J.B. 1962
72 Gouws, J.B. 1949
- longifolium* Thunb.
22 D'Amato, F. 1950 ; Dolcher, T.
1950 ; Sharma, A.K. & Bhattacharyya,
N.K. 1956a
22 (1), 14,
14 + f, 15,
19, 23) Sharma, A.K. 1956a
22 + 2B Inariyama, S. 1937
- campanulatum* Herb.
22 Raina, S.N. & Khoshoo, T.N.
1971c ; Raina, S.N. 1978
- careyanum* Herb.
22 Raina, S.N. & Khoshoo, T.N. 1971c ;
Raina, S.N. 1978
- cedaum* Ker-Gawl.
19, 20, 20
+ B, 21,
22, 24, 30,
50, 60 Subramanian, D. 1979a
22 Tandon, S.L. & Mathur, M. 1966 ;
Raina, S.N. & Khoshoo, T.N. 1971c ;
Ayyangar, K.R. 1973a ; Raina, S.N.
1978
- erubescens* Ait.
22 Raina, S.N. & Khoshoo, T.N. 1971c ;
Raina, S.N. 1978
- umbriatulum* Baker
22 Raina, S.N. & Khoshoo, T.N. 1971c ;
Raina, S.N. 1978
- gigas* (Thomps) Dandy
giganteum Andr.
33 Ponnamma, M.G. & Nisan, C.A.
1978b
- kirkii* Baker
22 Raina, S.N. & Khoshoo, T.N. 1971c ;
Raina, S.N. 1978
- kunthianum* Roem.
22 Raina, S.N. & Khoshoo, T.N. 1971c ;
Raina, S.N. 1978
- latifolium* Linn.
22 Inariyama, S. 1937 ; Suita, N. 1937 ;
Satō, D. 1938, 1942 ; Khoshoo, T.N.
& Raina, S.N. 1968 ; Raina, S.N. &
Khoshoo, T.N. 1971c ; Raina, S.N.
1978
c.24 Svensson-Stenar, H. 1925
33 Jones, K. & Smith, J.B. 1967b
- var. *zeylanicum* (Linn.) Hook. f. ex Trimen
zeylanicum Linn.
22 Sharma, A.K. 1956a ; Sharma, A.K.
& Bhattacharyya, N.K. 1956a ;
Raina, S.N. & Khoshoo, T.N. 1971c ;
Raina, S.N. 1978
22, 30 Nordal, I. *et al.* 1977
22, 30, 33 Wahlstrom, R. & Lanne, M.M. 1979
- lineare* Linn. f.
22 Raina, S.N. & Khoshoo, T.N. 1971c ;
Raina, S.N. 1978
- maurel* Hook. f.
22 Satō, D. 1938, 1942 ; Dolcher, T.
1950 ; Raina, S.N. & Khoshoo, T.N.
1971c ; Raina, S.N. 1978 ; Lakshmi,
N. 1980
- powellii* Hort. ex Baker
22 Dolcher, T. 1950 ; Sharma, A.K.

1956a; Sharma, A.K. & Bhattacharyya, N.K. 1956a; Raina, S.N. & Khoshoo, T.N. 1971c; Raina, S.N. 1978

sanderianum Baker

ornatum (Linn. f.) Bury

24 Khoshoo, T.N. & Raina, S.N. 1976
24, 44, 66,
87 Jones, K. & Smith, J.B. 1967b

scabrum Herb.

22 Raina, S.N. & Khoshoo, T.N. 1971c;
Raina, S.N. 1978
44 Jones, K. & Smith, J.B. 1967b

stenophyllum Baker

22 Zaman, M.A. *et al.* 1977a

cv. 2

22 Raina, S.N. 1978

cv. 7

22 Raina, S.N. 1978

cv. 8

22 Raina, S.N. 1978

cv. 11

22 Raina, S.N. 1978

cv. 15

22 Raina, S.N. 1978

cv. 20

22 Raina, S.N. 1978

cv. 21

22 Raina, S.N. 1978

cv. 26

22 Raina, S.N. 1978

cv. 33

33 Raina, S.N. 1978

cv. 36

33 Raina, S.N. 1978

cv. 38

22 Raina, S.N. 1978

cv. 46

66 Raina, S.N. 1978

cv. 49

22 Raina, S.N. 1978

cv. 50

22 Raina, S.N. 1978

cv. 51

22 Raina, S.N. 1978

cv. 52

44 Raina, S.N. 1978

Cyrtanthus Ait.

47; tropics and South Africa. A few cultivated.

mackenzii Hook. f.

16 Flory, W.S. 1955; Ising, G. 1962,
1966; Wilsenach, R. 1963; Lakshmi,
N. 1980

Eucharis Planch. & Linden

10; tropical South America. 1; cultivated and naturalized.

grandiflora Planch. & Linden

44 Mookerjee, A. 1955b; Sharma, A.K.
1956a
68 Satô, D. 1938, 1942; Sharma, A.K.
& Sharma, A. 1959

Haemanthus Linn.

50; tropics, South Africa and Socotra.
6; cultivated.

coccineus Linn.

16 Heitz, E. 1926; Inariyama, S. 1937;
Satô, D. 1938, 1942; Bjørnstad, I.N.
& Friis, I. 1972

16, 18, 20,

22 Subramanian, D. 1973b

32 Ayyangar, K.R. & Subramanian, D.
1972

katharinæ Baker

16 Heitz, E. 1926

18 Satô, D. 1942; Snood, B. 1952;
Gouws, J.B. 1964; Stephen, J. 1979

c.24 Svensson-Stenar, H. 1925

lindenii N.E. Brown

18 Ponnamma, M.O. & Ninan, C.A. 1978a

multiflorus Martyn

c.16 Heitz, E. 1926

18 Snood, B. 1952; Bronckers, F. 1961;
Ponnamma, M.O. & Ninan, C.A.
1978a; Lakshmi, N. 1980

kalbreyeri Baker

- 18 Sharma, A.K. 1956a
18+f Sharma, A.K. & Bai, A.K. 1956a

Khoshoo, T.N. & Raina, S.N. 1976 ;
Khoshoo, T.N. 1979

sp.

88 Raina, S.N. & Khoshoo, T.N. 1971f

Hippeastrum Herb.

75 ; tropical and subtropical America.
3 ; cultivated.

sp.

88-90 Khoshoo, T.N. & Raina, S.N. 1976
Khoshoo, T.N. 1979

reticulatum (L'Hérit.) Herb.

- 22 Sharma, A.K. & Jash, M. 1958a ;
Lakshmi, N. 1980

Leucojum Linn.

12 ; South Europe and Morocco. 1 ;
cultivated.

atylommum Herb.

- 22 Mookerjee, A. 1955b ; Sharma A.K.
1956a
33 Lakshmi, N. & Murthy, T.V. 1980

vestivum Linn.

20-24 Heitz, E. 1926

vittatum (L'Hérit.) Herb.

- 43 Snoad (D. 1955)
44 Inariyama, S. 1937 ; Satô, D. 1938,
1942 ; Mookerjee, A. 1955b ; Sharma,
A.K. 1956a
46 Nagao, S. & Takusagawa, H. 1932

22 Nagao, S. & Takusagawa, H. 1932 ;
Inariyama, S. 1937 ; Satô, D. 1937b
1938, 1942 ; Neves, J. de B. 1939 ; La
Cour (Darlington, C.D. 1946) ;
Susnik, F. & Lovka, M. 1973

24 Pólya, L. 1949

Amaryllis vittata L'Hérit.

- 22, 44 Vij, S.P. et al. 1978
44 Neto, E. 1948 ; Traub, H.P. 1958

Lycoris Herb.

10 ; Eastern Himalaya to Japan. 3 ;
cultivated and naturalized.

Hymenocallis Salisb.

50 ; warmer parts of America. A few
cultivated.

africana (Lam.) Roem.*aurea* (L'Hérit.) Herb.*nicotiana* (Jacq.) Salisb.

- 40, 44, 46,
48, 50 Lakshmi, N. 1978
44, 46 Sharma, A.K. 1956a ; Sharma, A.K.
& Bai, A.K. 1956a
46 Satô, D. 1938, 1942 ; Snoad
(Darlington, C.D. 1963) ; Venka-
teswarlu, J. & Lakshmi, K. 1969 ;
Raina, S.N. & Khoshoo, T.N. 1971f ;
Khoshoo, T.N. & Raina, S.N. 1976 ;
Mehra, P.N. & Sachdeva, S.K.
1976c ; Khoshoo, T.N. 1979

12 Inariyama, S. 1931 ; Bose, S. 1958b ;
Koyama, M. 1962a
12, 13 Yoshida, M. 1972
12, 13, 14 Inariyama, S. 1932, 1937, 1953 ;
Takemura, E. 1962 ; Bose, S. 1963a, b

12, 13, 14,

- 15 Bose, S. 1963d
12, 15 Bose, S. & Flory, W.S. 1963
13 Nishikawa, K. et al. 1979
14 Bose, S. 1963c
15 Bose, S. 1959a,b
22 Khalcol, T.F. 1978

pedalis Herb.

- 69 Khoshoo, T.N. & Raina, S.N. 1976 ;
Khoshoo, T.N. 1979

radiata (L'Hérit.) Herb.

22 Inariyama, S. 1953
22, 32+1B,
33 Bose, S. 1963d
22, 33 Inariyama, S. 1944 ; Bose, S. 1959a ;
Takemura, E. 1962

tenuiflora Herb.

- 61, 66, 68,
70, 71 Lakshmi, N. 1978

28, 30, 32,

sp.

- 70 Raina, S.N. & Khoshoo, T.N. 1971f ;

34 Bose, S. 1963b

32+1B Bose, S. 1963a

33 Nishiyama, I. 1928 ; Inariyama, S.

1931, 1937 ; Kihara, H. & Koyama, M. 1954 ; Mookerjee, A. 1955b ; Sharma, A.K. 1956a ; Koyama, M. 1962b ; Bose, S. & Flory, W.S. 1963 ; Khaleel, T.F. 1978 ; Nishikawa, K. *et al.* 1979

Narcissus Linn.

60 ; Europe, Mediterranean and West Asia. 4 ; cultivated.

incomparabilis Mill.

14 Heitz, E. 1926 ; Fernandes, A. 1934, 1942 ; Satô, D. 1938, 1942 ; Kurita, M. 1955d
 14, 21 Nagao, S. 1929, 1933
 14, 21, 22 Kurita, M. 1955e
 21 Mehra, P.N. & Sachdeva, S.K. 1976c

jonquilla Linn.

14 Nagao, S. 1929, 1933 ; Fernandes, A. 1929-1930 ; 1931, 1939, 1942 ; Satô, D. 1938, 1942 ; Pereira, A. de L. 1940 ; Meyer, F.G. 1966 ; Hicahara, S. & Tateno, S. 1967 ; Terasaka, O. & Tanaka, R. 1974
 14, 21 Fernandez, A. & De Almeida, M.T. 1971

var. *jonquilla*

14 Fernandes, A. 1967-1968

poeticus Linn.

c.14 Stamps, T.J. 1919
 14 de Mol, W.E. 1925, 1926, 1937 ; Meyer, F.G. 1966
 14, 21 Nagao, S. 1929, 1935 ; Pereira, A. de L. 1940 ; Wylie, A.P. 1952
 21 Satô, D. 1938, 1942 ; Kurita, M. 1955e ; Mehra, P.N. & Sachdeva, S.K. 1976c

lazetta Linn.

14, 24, 28,
 30, 32 Sharma, A.K. & Sharma, A. 1961a
 20 Fernandes, A. 1967-1968
 20+0-3B,
 30 Weitz, S. & Feinbrun, N. 1972
 20-22, 30
 -32 Nagao, S. 1929, 1930a, b, 1933, 1935

20, 21, 30,
 31, 32 Fernandes, A. 1966
 21, 22, 30 Fernandes, A. 1934, 1937a,b
 22 Meyer, F.G. 1966
 22, 32 Satô, D. 1938, 1942
 30, 32 Fernandez, A. & De Almeida, M.T. 1971 ; Vij, S.P. *et al.* 1978

cv. *single*

14 Sharma, A. & Sarkar, A.K. 1967-1968

cv. *double*

14 Sharma, A. & Sarkar, A.K. 1967-1968

Pancreatum Linn.

15 ; Mediterranean to tropical Asia and tropical Africa. 8 ; chiefly in Southern India, and Sri Lanka.

longiflorum Roxb.

22 Lakshmi, N. 1980

triflorum Roxb.

22, 33 Ponnamma, M.G. 1978
 44, 48, 56 Venkatakrisnan, R. 1975

verecundum Linn.*

44, 44+1-
 3B, 55 Zaman, M.A. & Nessa, L. 1974

zeylanicum Linn.

22 Sharma, A.K. & Bai, A.K. 1956a
 48 Sharma, A.K. & Ghosh, C. 1954b ; Sharma, A.K. & Bhattacharyya, N.K. 1960
 80-100 Heitz, E. 1926
 c.90 Fernandes, A. 1930

Sprekelia Heist.

1 ; Mexico. Cultivated.

formosinalua (Linn.) Herb.

58-62, 114
 -122, 127,
 136, 141,
 144-150,
 153-156,
 160, 162,
 164, 169,
 172, 175 Bose, S. 1958c

*The combination *Pancreatum verecundum* was made by W. Ait. (HFDD : 310).

- 60, 118-
124, 148-
155, 164-
178 Bose, S. 1958a
60, c.120,
c.150,
c.180 Bose, S. 1959b, 1961
c.110 Inariyama, S. 1937
116 Mookerjee, A. 1955b ; Sharma, A.K.
1956a
c.117 Satô, D. 1938, 1942
120 Cope, J.M. 1972

Vallota Salisb. ex Herb.

1 ; South Africa. Cultivated.

speciosa (Linn. f.) Dur. & Schinz

- 16 Satô, D. 1942 ; Gouws, J.B. 1949 ;
Ising, G. 1962

purpurea Herb.

- 16 Thornton (Tischler, G. 1931) ; Satô,
D. 1942 ; Tjia, I. & Levan, A. 1950

Zephyranthes Herb.

35-40 ; warm America and West Indies.

20 ; cultivated.

ajax Hort.

- 42 Satô, D. 1942 ; Tandon, S.L. &
Kapoor, B.M. 1961a,b, 1962c
43 Khoshoo, T.N. & Raina, S.N. 1976 ;
Khoshoo, T.N. 1979
c.43, 44 Flory, W.S. 1940b, 1941, 1943
48 Tandon, S.L. & Meenakshi, M. 1965 ;
Raina, S.N. & Khoshoo, T.N. 1972a

atamaseo (Linn.) Herb.

- 12 Khaleel, T.F. & Boraiab, G. 1974a,b
24 Flory, W.S. 1940b, 1943

candida (Lindl.) Herb.

- 19, 19+
1B, 20, 20
+1B Tandon, S.L. & Sachdeva, U. 1963
36 Hosono (Kihara, H. *et al.* 1931)
38 Nagao, S. & Takusagawa, H. 1932 ;
Inariyama, S. 1937 ; Satô, D. 1938,
1942 ; Flory, W.S. 1940b, 1943 ;
Yokouchi, Y. 1963 ; Singh, V.K. &
Roy, S.K. 1971, 1973a ; Saito, K. &
Satô, E. 1972 ; Mehra, P.N. &
Sachdeva, S.K. 1976a

- 38, 39 Naranjo, C.A. 1969
38, 40, 41 Raina, S.N. & Khoshoo, T.N. 1971b,
1972a ; Khoshoo, T.N. 1979
38, 41, 48,
50 Khoshoo, T.N. & Raina, S.N. 1976
40 Tandon, S.L. & Meenakshi, M. 1965

citrina Baker

- 48 Flory, W.S. 1959a ; Flagg, R.O. &
Flory, W.S. 1962 ; Singh, V.K. &
Roy, S.K. 1973a

flava Roem. & Schult.

- 42, 48 Singh, V.K. & Roy, S.K. 1973a
48 Singh, V.K. & Roy, S.K. 1971

grandiflora Lindl.

- 24 Tandon, S.L. & Kapoor, B.M.
1961a ; Kapoor, B.M. & Tandon,
S.L. 1964b
24, 36 Kapoor, B.M. & Tandon, S.L. 1963b
24, 48 Tandon, S.L. & Meenakshi, M.
1965 ; Raina, S.N. & Khoshoo, T.N.
1972a
46-51
(sterile)
48 (fertile) Flory, W.S. 1968
48 Coe, G.E. 1954

carinata Herb.

- 42, 48 Singh, V.K. & Roy, S.K. 1973a
46 Nagao, S. & Takusagawa, H. 1932
48 Inariyama, S. 1937 ; Flory, W.S.
1941, 1943, 1959a ; Yokouchi, Y.
1964 ; Singh, V.K. & Roy, S.K.
1971 ; Saito, K. & Satô, E. 1972 ;
Khaleel, T.F. & Boraiab, G. 1974a,b ;
Mehra, P.N. & Sachdeva, S.K. 1976c

lancaeteri Traub

- 48 Kapoor, B.M. & Tandon, S.L. 1964b ;
Tandon, S.L. & Meenakshi, M.
1965 ; Raina, S.N. & Khoshoo, T.N.
1972a

mesochloa Baker

- 24 (variati-
ons 7+1f,
9-23, 26-
36, 37+1f,
40-65,
102) Bhattacharyya, N.K. 1972a
39 Flory, W.S. 1968
48 Sharma, A.K. & Ghosh, C. 1954b ;
Sharma, A.K. 1956a

<i>pedunculata</i>	25	Flory, W.S. 1941, 1943, 1958 ; Singh, V.K. & Roy, S.K. 1973a
48	Raina, S.N. & Khoshoo, T.N. 1972a	
<i>puertoricensis</i> Traub	25	Flory, W.S. 1959b ; Flagg, R.O. & Flory, W.S. 1962 ; Raina, S.N. & Khoshoo, T.N. 1971b, d ; Khoshoo, T.N. & Raina, S.N. 1976 ; Khoshoo, T.N. 1979
<i>robusta</i> Baker	12	Flory, W.S. 1937b ; Satô, D. 1938, 1942 ; Sharma, A.K. & Ghosh, C. 1954b
	45, 48	Singh, V.K. & Roy, S.K. 1971, 1973a
<i>rosea</i> Lindl.	12	Kanchan, S.D. & Geetha, K.S. 1977
	24	Sharma, A.K. & Ghosh, C. 1954b ; Flory, W.S. 1959a ; Flagg, R.O. & Flory, W.S. 1962 ; Raina, S.N. & Khoshoo, T.N. 1971b, 1972a
	24, 26, 28	+2f Singh, V.K. & Roy, S.K. 1971, 1973a
<i>sulphurea</i> Hort.	24	Sharma, A.K. & Ghosh, C. 1954b
	48	Raina, S.N. & Khoshoo, T.N. 1971b, 1972b ; Singh, V.K. & Roy, S.K. 1971, 1973a ; Khoshoo, T.N. 1979
<i>sulphurea</i> × <i>candida</i>	33-48	Khoshoo, T.N. 1979
<i>texana</i> Herb.	24	Pace, L. 1913 ; Satô, D. 1938, 1942
	48	Khaleel, T.F. & Boraiiah, G. 1974a,b
<i>tubispatha</i> Herb.	24	Tandon, S.L. & Meenakshi, M. 1965 ; Kootin-Sanwu, M. 1969 ; Raina, S.N. & Khoshoo, T.N. 1972a ; Lakshmi, N. 1980
	28	Flory, W.S. 1959a,b ; Flagg, R.O. & Flory, W.S. 1962 ; Raina, S.N. & Khoshoo, T.N. 1971b ; Khoshoo, T.N. & Raina, S.N. 1976 ; Khoshoo, T.N. 1979
	sp.	
	48	Raina, S.N. & Khoshoo, T.N. 1972a
	sp.	
	50	Raina, S.N. & Khoshoo, T.N. 1972a
	cv.	
	43	Raina, S.N. & Khoshoo, T.N. 1971b
	cv.	
	44	Raina, S.N. & Khoshoo, T.N. 1971b
	cv.	
	46	Raina, S.N. & Khoshoo, T.N. 1971b
	cv.	
	47	Raina, S.N. & Khoshoo, T.N. 1971b
	cv.	
	48	Raina, S.N. & Khoshoo, T.N. 1971b
	cv.	
	50	Raina, S.N. & Khoshoo, T.N. 1971b
	cv.	
	54	Raina, S.N. & Khoshoo, T.N. 1971b
	cv.	
	61	Raina, S.N. & Khoshoo, T.N. 1971b
	cv.	
	66	Raina, S.N. & Khoshoo, T.N. 1971b
	cv.	
	73	Raina, S.N. & Khoshoo, T.N. 1971b

APONOGETONACEAE J.G. Agardh

1/30 ; palaeotropics and South Africa. 1/4 ; throughout India, and Bhutan and Sri Lanka.

Aponogeton Linn. f.

30 ; palaeotropics and South Africa. 4 ;

throughout India, and Bhutan and Sri Lanka.

natans Linn.*

76 Sharma, A.K. & Chatterjee, T. 1967

natans (Linn.) Engl. & Krause24 Ghosh, D.K. & Bhattacharya, G.N.
1980

ARACEAE Juss.

115/2,000 ; tropics and temperate, abundant in tropics. 36/177 ; tropical Himalaya, Southern and Western India, and Nepal, Bhutan, Pakistan, Bangla Desh and Sri Lanka - a few cultivated.

Acorus Linn.

2 ; North temperate and subtropics. 2 ; Himalaya (up to 1,650 m), and Sri Lanka.

calamus Linn.

18 Dudley, M.G. 1937 ; Malvesin-Fabre, G. 1945 (Delay, C. 1951)

24 Vaarama (Löve, A. & Löve, D. 1948) ; Wieffering, J.H. 1972

24, 36, 48 Wulff, H.D. 1940, 1954 ; Rost, L.C.M. 1978

36 Wulff, H.D. 1939b ; Jones, G.E. 1957 ; Löve, A. & Löve, D. 1957 ; Sokolowska-Kulczycka, A. (Skalińska, M. *et al.* 1961) ; Murin, A. & Májovský, J. 1976

c.36 Marchant, C.J. 1973

44 Kurakubo, Y. 1940 ; Larsen, K. 1969 ; Hotta, M. 1971

45 Ramachandran, K. 1978

astaticus Nakai

44 Ito, T. 1942 *

gramineus Soland. ex Ait.

18 Malvesin-Fabre, G. (Delay, C. 1951)

22 Kurakubo, Y. 1940 ; Hotta, M. 1971

24 Vignoli, L. 1939 ; Wulff, H.D. 1940 ; Ito, T. 1942 ; Delay, C. 1947 ; Jones, G.E. 1957 ; Hsu, C. C. 1972 ; Rost, L.C.M. 1978

tatarinovi Schott

24 Larsen, K. 1969

Aglaonema Schott

21 ; Indo-Malesia. 3 ; Khasi Hills (up to 1,000 m), Nicobar Islands, and Bangla Desh - a few cultivated.

brevispathum (Engl.) Engl.*f. hospitum* (Williams) Nicols.*hospitum* Williams

38 Sharma, A.K. & Datta, K.B. 1961

40 Pfitzer, P. 1957a

costatum N.E. Brown

40 Pfitzer, P. 1957a ; Sharma, A.K. & Datta, K.B. 1961

marantifolium Blume

56, 84 Sharma, A.K. & Bhattacharyya, G.N. 1966

var. *curtissi*

40 Sharma, A.K. & Bhattacharyya, G.N. 1966

plepium (Roxb.) Kunth

40 Pfitzer, P. 1957a ; Marchant, C.J. 1971a

42 Sharma, A.K. & Bhattacharyya, G.N. 1966

Alocasia (Schott) G. Don

70 ; Indo-Malesia. About 13 ; chiefly in Eastern India, and Bangla Desh and Sri Lanka - a few cultivated.

*The combination *Aponogeton natans* was made by Engl. & Krause (AA : 92).

- acuminata* Schott
28 Sachdeva, S.K. 1977; Mehra, P.N. & Sachdeva, S.K. 1979
- cucullata* (Lour.) G. Don
28 Ito, T. 1942; Hotta, M. 1971; Marchant, C.J. 1971a
- fornicata* Schott
28 Sharma, A.K. & Das, N.K. 1954
42 Ramachandran, K. 1978
70 Rajendran, P.G. & Jos, J.S. 1972
- lowii* Hook.
28 Jones, G.E. 1957
70 Marchant, C.J. 1971a
- macrorhiza* (Linn.) G. Don
26 Matsuura, H. & Sudo, T. 1935; Vignoli, L. 1939
28 Kurakubo, Y. 1940; Ito, T. 1942; Sharma, A.K. & Mukherjee, D. 1959; Hotta, M. 1971; Hsu, C.-C. 1971, 1972
- indica* (Lour.) Spach.
28 Mookerjee, A. 1955a; Marchant, C.J. 1971a; Rajendran, P.G. *et al.* 1972; Ramachandran, K. 1978
- montana* Schott
28 Ramachandran, K. 1978
- navicularis* C. Koch
28 Larsen, K. 1969
68 Sharma, A.K. & Mukherjee, D. 1959
- plumbea* C. Koch *ex* Van Houtte
indica var. *metallica* Schott
28 Marchant, C.J. 1971a
- Amorphophallus* Blume *ex* Decne
100; tropical Africa and Asia. 15; chiefly in Southern India and Andaman Islands, and Sri Lanka a few cultivated.
- bulbifer* (Roxb.) Blume
36 Chandler, C. 1943; Hotta, M. 1971
39 Marchant, C.J. 1971b; Ramachandran, K. 1977
- campanulatus* (Roxb.) Blume *ex* Decne
26 Asana, J.J. & Sutarla, R.N. 1939 (D. 1945)
28 Patel, J.S. & Narayana, G.V. 1937; Jos, J.S. & Magoon, M.L. 1970; Krishnan, R. *et al.* 1970c; Marchant, C.J. 1971b; Ramachandran, K. 1977
36 Hotta, M. 1971
- dubius* Blume
28 Ramachandran, K. 1977
- hohenackeri* Engl.
26 Ramachandran, K. 1977
- sylvaticus* Kunth
26 Asana, J.J. & Sutarla, R.N. 1939
- Anaphyllum* Schott
2; Southern India.
- wightii* Schott
26 Jos, J.S., Nair, S.G. & Magoon, M.L. 1968; Jos, J.S. & Magoon, M.L. 1970; Ramachandran, K. 1978
- Anthurium* Schott
550; tropical America and West Indies. Some cultivated.
- acule* (Jacq.) Schott
30 Gaiser, L.O. 1927
30+2B Bhattacharya, G.N. 1976
- andraeanum* Lind.
30 Ito, T. 1942; Simmonds, N.W. 1954; Pfitzer, P. 1957a; Sharma, A.K. & Bhattacharyya, U.C. 1961a
30-32 Hauss-Bessolt, G. 1928
- bellum* Schott
28 Bhattacharya, G.N. 1976
56 Mookerjee, A. 1955a
- crystallinum* Lind. & André
28+3B, 30
+0-3B Bhattacharya, G.N. 1969
c.30 Gaiser, L.O. 1927
30, 30+1-
2B Pfitzer, P. 1957a,b
30+2B Bhattacharya, G.N. 1976
34 Mookerjee, A. 1955a
- digitatum* (Jacq.) G. Don
36 Bhattacharya, G.N. 1976
36, 40 Bhattacharya, G.N. 1969
c.60 Gaiser, L.O. 1927
60 Pfitzer, P. 1957a

grande Hort.

- 28 Bhattacharya, G.N. 1976
28, 32 Bhattacharya, G.N. 1969

maculobum Bull. ex Mast. & Moore

- 30 Pfitzer, P. 1957a ; Sharma, A.K. & Bhattacharyya, G.N. 1966 ; Sarkar, A.K., Datta, N. *et al.* 1978

symphaefolium C. Koch & Bouché

- 28 Bhattacharya, G.N. 1976
c.30 Gaiser, L.O. 1927

pulchellum Engl.

- 63 Mookerjee, A. 1955a ; Sharma, A.K. 1956a

splendidum Hort.

- 30+0-4B Bhattacharya, G.N. 1969
30+4B Bhattacharya, G.N. 1976

Ariopsis J. Grah.

1 ; Indo-Malesia. Subtropical Western Himalaya and Western Peninsula, and Nepal.

peltata Nimmo

- 28 Ramachandran, K. 1978
80 Malvesio-Fabre, G. 1945 (Delay, C. 1951)
84 Pfitzer, P. 1957a
86 Marchant, C.J. 1971a

Arisaema Mart.

150 ; East Africa, tropical Asia, Atlantic North America to Mexico, 42 ; chiefly in Eastern Himalaya and Western Ghats, and Nepal, Bhutan and Sri Lanka.

album N.E. Brown

- 28 Hotta, M. 1971

concinnum Schott

- 28 Sharma, A. & Sarkar, A.K. 1967-1968 ; Bhattacharyya, G.N. 1968 ; Hotta, M. 1971 ; Mehra, P.N. & Sachdeva, S.K. 1976d
56 Bowden, W.M. 1940a, 1945a ; Malik, C.P. 1961b

consanguineum Schott

- 28 Kurosawa, S. 1971b ; Mehra, P.N. &

Sachdeva, S.K. 1971 ; Sarkar, A.K. & Chatterjee, U. 1978

- 48 Sarkar, A.K., Datta, N. *et al.* 1978

decipiens Schott

- 28 Sharma, A. & Sarkar, A.K. 1967-1968 ; Bhattacharyya, G.N. 1968

echinatum (Wall.) Schott

- 28 Hotta, M. 1971

erubescens (Wall.) Schott

- 28 Sharma, A. & Sarkar, A.K. 1967-1968 ; Bhattacharyya, G.N. 1968 ; Larsen, K. 1969 ; Hotta, M. 1971 ; Mehra, P.N. & Sachdeva, S.K. 1976d

exappendiculatum Hara

- 28 Kurosawa, S. 1966

griffithii Schott

- 26+0-2B,
28, 30, 32
+2B Bhattacharyya, G.N. 1968
28 Sharma, A. & Sarkar, A.K. 1967-1968

intermedium Blume

- 28 Malik, C.P. 1961b, c ; Kurosawa, S. 1971b ; Mehra, P.N. & Sachdeva, S.K. 1976d, 1979 ; Sachdeva, S.K. 1977

jacquemontii Blume

- 26 Kumar, V. & Chauhan, K.P.S.
28 Malik, C.P. 1961b, c ; Hotta, M. 1971 ; Kurosawa, S. 1971b
52 Mehra, P.N. & Sachdeva, S.K. 1976d ; Mehra, P.N. & Pandira, T.K. 1978

teschenaultii Blume

- 28 Marchant, C.J. 1972

murrayi Hook.

- 28 Asana, T. (Tischler, G. 1935-1936) ; Vignoli, L. 1939

nepeanthoides Mart.

- 26 Sharma, A. & Sarkar, A.K. 1967-1968
26, 28 Bhattacharyya, G.N. 1968

ostiolatum Hara

- 28 Kurosawa, S. 1971b

propinquum Schott

- 26 Kumar, V. & Chauhan, K.P.S.

sikkimense Stapf

- 26 Sharma, A. & Sarkar, A.K. 1967-1968 ; Bhattacharyya, G.N. 1968

wallichianum Hook. f.

- 26 Sharma, A. & Sarkar, S.K. 1967-1968 ; Bhattacharyya, G.N. 1968 ; Mehra, P.N. & Pandita, T. K. 1979
28 Malik, C.P. 1961b,c ; Mehra, P.N. & Sachdeva, S.K. 1976d

speciosum (Wall.) Mart.

- 28 Kurosawa, S. 1966 ; Sharma, A. & Sarkar, A.K. 1967-1968
28, 36 Bhattacharyya, G.N. 1968

var. *mirabile* (Schott) Hara

- 28 Kurosawa, S. 1966

tortuosum Schott

- 24 Sharma, A.K. & Mukhopadhyay, S. 1965
26 Sharma, A. & Sarkar, A.K. 1967-1968
26+0-7B,
28 Bhattacharyya, G.N. 1968
28 Mehra, P.N. & Sachdeva, S.K. 1971, 1976d, 1979 ; Sachdeva, S.K. 1977
52 Mehra, P.N. & Sachdeva, S.K. 1975b
56 Hotta, M. 1971 ; Sinha, S.S.N. *et al.* 1972

helleborifolium Schott

- 26 Malik, C.P. 1961b,c
28 Mehra, P.N. & Sachdeva, S.K. 1971

var. *curvatum* Engler*curvatum* Kunth

- 26 Malik, C.P. 1961b,c
28 Mehra, P.N. & Sachdeva, S.K. 1971, 1976d

utile Hook. f.

- 28 Sharma, A. & Sarkar, S.K. 1967-1968 ; Bhattacharyya, G.N. 1968

Caladium Vent.

15 ; tropical South America. 1 ; cultivated.

bicolor Willd.*

- 26, 28, 30,
32 Sharma, A.K. & Sarkar, A.K. 1964a

- 28 Sharma, A.K. 1956a

28. (29-33) Sharma, A.K. & Das, N.K. 1954
30 Kurakubo, Y. 1940 ; Simmonds, N.W. 1954 ; Jones, G.E. 1957 ; Pfitzer, P. 1957a
48 Ito, T. 1942 (D. 1945)

bicolor (Ait.) Vent.

- 22, 23, 30 Sarkar, A.K. 1976
26, 28, 30 Sarkar, A.K. 1975
28 Sarkar, A.K. 1968
28, 30 Sarkar, A.K. 1971
30 Sarkar, A.K. 1969 ; Marchant, C.J. 1971a ; Ramachandran, K. 1978

Colocasia Schott

8 ; Indo-Malesia and Polynesia. 4-5 ; Eastern India (up to 2,640 m), and 1 wild and cultivated throughout India, and Sri Lanka.

affinis (Linn.) Schott

- 28 Sharma, A.K. & Mukherjee, D. 1959

esculenta (Linn.) Schott

- 22-28, 28 Sastrapradja, S. & Rijanti, A.M. 1972
28 Simmonds, N.W. 1954 ; Jones, G.E. 1957 ; Jos, J.S. & Magoon, M.L. 1970 ; Marchant, C.J. 1971a ; Hsu, C.-C. 1972 ; Jos, J.S. & Bai, K.V. 1978
28, 42 Hotta, M. 1971 ; Ramachandran, K. 1978

antiquorum Schott

- 14, 42 Sharma, A.K. 1956a
24, 38 Sarkar, A.K. 1960
28 Kurakubo, Y. 1940 ; Ito, T. 1942 ; Sharma, A.K. & Das, N.K. 1954 ; Pfitzer, P. 1957a ; Krishnan, R. *et al.* 1970c
28, 42 Rattenbury, J.A. 1956, 1957 ; Bai, K.V. *et al.* 1971 ; Ramachandran, K. 1978
36 Rao, N.S. 1947b
42 Nakajima, G. 1933, 1936 ; Janaki Ammal, E.K. (D. 1945) ; Mookerjee, A. 1953a ; Krishnan, R. *et al.* 1970d ; Marchant, C.J. 1971a

*The combination *Caladium bicolor* should be attributed to Vent. (DFPI : 29).

- 48 Malvesin-Fabre, G. 1945 (Delay, C. 1951)
fallax Schott
 42 Larsen, K. 1969
- Cryptocoryne* Fisch. ex Wydl.
 50 ; Indo-Malesia. 9 ; chiefly in Eastern India and Deccan Peninsula, and Sri Lanka.
- beckettii* Thwaites ex Trim.
 28 Marchant, C.J. 1972 ; Jacobsen, N. 1977
- ciliata* (Roxb.) Fisch. ex Schott
 22 Marchant, C.J. 1972 ; Sarkar, A.K., Datta, N. *et al.* 1976 ; Sarkar, A.K. & Chatterjee, U. 1978 ; Sarkar, A.K. *et al.* 1979
 22, 33 Jacobsen, N. 1977
- retrospiralis* (Roxb.) Kunth
 72 Jacobsen, N. 1977
- spiralis* Fisch. ex Wydl.
 66, 88 Jacobsen, N. 1977
 90 Sarkar, A.K., Datta, N. *et al.* 1976 ; Sarkar, A.K. & Chatterjee, U. 1978 ; Sarkar, A.K. *et al.* 1979
- thwaitesii* Schott
 36 Jacobsen, N. 1977
 42 Marchant, C.J. 1972
- walkeri* Schott
 28 Jacobsen, N. 1977
- Dieffenbachia* Schott
 30 ; tropical America and West Indies.
 4 ; cultivated.
- maculata* (Lodd.) G. Don
picta Schott
 34 Mookerjee, A. 1955a ; Jones, G.E. 1957 ; Pfitzer, P. 1957a ; Marchant, C.J. 1971a ; Ramachandran, K. 1978
 36 Sharma, A.K. & Bhattacharyya, G.N. 1966
- var. *angustior angustifolia*
 16 Sharma, A.K. & Bhattacharyya, G.N. 1966
- regnina* (Jacq.) Schott
 34 Pfitzer, P. 1957a
- var. *barranquiniana*
 34 Sharma, A.K. & Bhattacharyya, G.N. 1966
- var. *decora*
 34 Sharma, A.K. & Bhattacharyya, G.N. 1966
- var. *irrorata*
 34 Sharma, A.K. & Bhattacharyya, G.N. 1966
- var. *leopoldi*
 34 Sharma, A.K. & Bhattacharyya, G.N. 1966
- Gonatanthus* Klotzsch
 2 ; Himalaya to Siam and South-West China. 1 ; Himalaya (up to 2,160 m).
- pumilus* (D. Don) Engl. & Krause
 28 Larsen, K. 1969 ; Hotta, M. 1971
- sarmentosus* Klotzsch
 28 Sharma, A.K. & Das, N.K. 1954
 32 Mookerjee, A. 1955a
- Homalomena* Schott
 140 ; tropical Asia and South America.
 2 ; Eastern Himalaya and Assam, and Bangla Desh.
- rubescens* Kunth
 34 Mookerjee, A. 1955a
 40 Hotta, M. 1971
 48 Sharma, A.K. & Bhattacharyya, G.N. 1966
- Lagenandra* Dalz.
 6 ; 4 Sri Lanka, 2 Southern India.
- lanceifolia* (Schott) Thwaites
 36 Marchant, C.J. 1972
- ovata* (Linn.) Thwaites
 32 Bhattacharyya, G.N. 1975
 36 Marchant, C.J. 1972
- toxicaria* Dalz.
 36 Marchant, C.J. 1972

thwaitesii Engl.

36 Marchant, C.J. 1972

Lastia Lour.

3; Indo-Malesia, 1; tropical Sikkim Himalaya, Assam, Bengal and Rampha Hills, and Sri Lanka.

spinosa (Linn.) Thwaites

26 Pfitzer, P. 1957a; Larsen, K. 1969; Hotta, M. 1971; Ramachandran, K. 1978

heterophylla Schott

26 Sharma, A.K. & Mukherjee, D. 1959

Monstera Schott

50; tropical America and West Indies. 1; cultivated.

deliciosa Liebm.

24 Janaki Ammal, E.K. (D. 1945); Delay, C. 1947
56 Malvesin-Fabre (Delay, C. 1951)
60 Jones, G.E. 1957; Pfitzer, P. 1957a; Sharma, A.K. & Mukhopadhyay, S. 1964
70 Sharma, A.K. & Bhattacharyya, G.N. 1966

Philodendron Schott

275; warm America and West Indies. 1; cultivated.

bipinnatifidum Schott ex Endl.

36 Jones, G.E. 1957; Pfitzer, P. 1957a

Pistia Linn.

1; tropics and subtropics. Throughout India, and Sri Lanka.

stratiotes Linn.

28 Blackburn, K. B. 1933; Krishnappa, D.G. 1967, 1971; Marchant, C.J. 1971b; Ramachandran, K. 1978; Sarkar, A.K. & Chatterjee, U. 1978

var. *cesata* Engl.

28 Chaudhuri, J.B. 1973

Pothos Linn.

75; Madagascar and Indo-Malesia. 14; chiefly in Himalaya (up to 1,330 m), and Bhutan, Bangla Desh and Sri Lanka - a few cultivated.

aureus Lind. ex André

60 Sampathkumar, R. & Krishnamurthy, I.V. 1976
70 Bhattacharya, G.N. 1974

metal Linn.

30 Sampathkumar, R. & Krishnamurthy, I.V. 1976

scandens Linn.

24 Snoad, B. 1952; Bhattacharyya, G.N. 1947; Sarkar, A.K. & Chatterjee, U. 1978

Remusatia Schott

4; Himalaya to Formosa and tropical Africa. 2; Himalaya (up to 2,300 m), Western Ghats and Bihar, and Sri Lanka.

hookeriana Schott

28 Larsen, K. 1969; Sarkar, A.K., Datta, N. *et al.* 1976; Sarkar, A.K. & Chatterjee, U. 1978

viripara (Lodd.) Schott

28 Mookerjee, A. 1955a; Hotta, M. 1971; Ramachandran, K. 1978
42 Larsen, K. 1969
56 Marchant, C.J. 1971a

Rhaphidophora Hassk.

100; Indo-Malesia and New Caledonia. 9; chiefly in Eastern Himalaya, and Nepal, Bangla Desh and Sri Lanka.

decursiva (Roxb.) Schott

26 Sarkar, A.K., Datta, N. & Chatterjee, U. 1978
54 Mookerjee, A. 1955a

peepia Schott

42 Sharma, A. & Sarkar, A.K. 1967-1968
c.120 Marchant, C.J. 1970

Sauromatum Schott

6 ; tropical Africa to West Malaysia. 2 ; Himalaya, Punjab, Upper Gangetic Plain and Western Peninsula, and Nepal.

venosum (Ait.) Kunth

- 26 Mehra, P.N. & Sachdeva, S.K. 1976d ; Sarkar, A.K., Datta, N. *et al.* 1976 ; Sarkar, A.K. & Chatterjee, U. 1978 ; Kumar, V. & Chauhan, K.P.S.

guttatum (Wall.) Schott

- 26 Geitler, L. 1938 ; Graff, I. 1940 ; Tschermak-Woess, E. 1954 ; Bart, G. 1955 ; Jones, G.E. 1957
32 Malvesin-Fabre, G. 1945 (Delay, C. 1951)

Scindapsus Schott

40 ; South China, South East Asia and Indo-Malesia. 2 ; tropical Himalaya, Andaman and Nicobar Islands, and Bangla Desh.

caecuraria Presl

- 42 Sharma, A.K. & Bhattacharyya, G.N. 1966

officinale Schott

- 56 Bhattacharyya, U.C. 1957

Stuednera C. Koch

8 ; Himalaya, South East Asia and Malay Peninsula. 4 ; chiefly in Eastern Himalaya, and Bangla Desh.

colocastifolia C. Koch

- 28 Larsen, K. 1969

discolor Hort.

- 56 Ramachandran, K. 1978

Theriophonum Blume

6 ; Peninsular India, and Sri Lanka.

indicum Engl.

- 16 Ramachandran, K. 1978

infaustum N.E. Brown

- 16 Ramachandran, K. 1978

minutum Engl.

- 16 Ramachandran, K. 1978

Thomsonia Wall.

1 ; tropical Himalaya, Sikkim and Assam, and Nepal.

nepalensis Wall.

- 28 Mookerjia, A. 1955a ; Sharma, A. & Sarkar, A.K. 1967-1968
28, (14, 35
+ f) Sharma, A.K. 1956a

Typhonium Schott

30 ; South East Asia and Indo-Malesia. 16 ; chiefly in Himalaya (up to 3,660 m) and Western Peninsula, and Nepal, Bhutan, Bangla Desh and Sri Lanka.

divaricatum Decne

- 26 Hsu, C.-C. 1967
52 Ito, T. 1942

diversifolium Wall.

- 52 Jones, G.E. 1957 ; Mehra, P.N. & Sachdeva, S.K. 1971, 1976d

flagelliforme Blume

- 14 Ayyangar, K.R. 1973b
50 Mitra, K. & Datta, N. 1967

cuspidatum Decne

- 16 Sharma, A.K. & Mukhopadhyay, S. 1965 ; Jos, J.S. *et al.* 1968 ; Bhattacharya, G.N. 1971

inopiatum Prain

- 26 Sharma, A.K. & Mukhopadhyay, S. 1965
28 Bhattacharya, G.N. 1971

trilobatum (Linn.) Schott

- 18 Sharma, A.K. & Mukhopadhyay, S. 1965 ; Mitra, K. & Datta, N. 1967 ; Bhattacharya, G.N. 1971 ; Ayyangar, K.R. 1973b
26 Simmonds, N.W. 1954

Xanthosoma Schott

45 ; Mexico to tropical South America and West Indies. 3 ; cultivated.

liadenii (André) Engl.

26 Pfitzer, P. 1957a

magistifolium Schott

24 Janaki Ammal, E.K. (D. 1945)
26 Jones, G.E. 1957 ; Jos, J.S. & Magoon, M.I. 1970 ; Krishnan, R. *et al.* 1970a ; Marchant, C.J. 1971a ; Ramachandran, K. 1978

violaceum Schott

24 Malvestin-Fabre, G. 1945 (Delay, C. 1951) ; Pfitzer, P. 1957a

26 Jones, G.E. 1957 ; Marchant, C.J. 1971a ; Ramachandran, K. 1978

Zantedeschia Spreng.

8-9 ; Africa. 1 ; cultivated.

aethiopica (Linn.) Spreng.

24 Michell (Ito, T. 1942) ; Earl, G. 1955
32 Overton, J.B. 1909 ; Ito, T. 1942 ; Earl, G. 1957 ; Jones, G.E. 1957 ; Pfitzer, P. 1957a

Richardia aethiopica Spreng.

28 Mookerjee, A. 1955a

Richardia africana Kunth

24 Michell, M.R. 1916
32 Overton, J.B. 1909

ARECACEAE Schultz Schultzenst.

(= PALMAE Juss.)

217/2,500 ; tropics and subtropics. 56/142 ; chiefly in Eastern Himalaya, and Nepal, Bhutan, Pakistan, Bangla Desh and Sri Lanka - some cultivated.

Acocorrhaphe H. Wendl. corr. Becc.

7 ; Mexico and Central America. 1 ; cultivated.

wrightii (Griseb. & Wendl.) Wendl. ex Becc.

36 Read, R.W. 1964, 1965a ; Sarkar, A.K., Datta, N. *et al.* 1976

Areca Linn.

54 ; Indo-Malesia, Solomon and Bismarck Islands and North Australia. 4 ; Assam and Andaman Islands, and Bangla Desh and Sri Lanka - a few cultivated.

catechu Linn.

32 Venkatasubban, K.R. 1945b ; Satô, D. 1946 ; Delay, C. 1947 ; Sharma, A.K. & Sarkar, S.K. 1957a ; Abraham, A. *et al.* 1961 ; Bavappa, K.V.A. & Raman, V.S. 1965 ; Bavappa,

K.V.A. *et al.* 1975 ; Bavappa, K.V.A. & Nair, M.K. 1978

catechu × triandra

32 Bavappa, K.V.A. *et al.* 1975 ; Bavappa, K.V.A. & Nair, M.K. 1978

triandra Roxb.

32 Janaki Ammal, E.K. (D. 1945) ; Rawi (Delay, C. 1951) ; Sharma, A.K. & Sarkar, S.K. 1957a ; Bavappa, K.V.A. & Raman, V.S. 1965 ; Bavappa, K.V.A. *et al.* 1975 ; Bavappa, K.V.A. & Nair, M.K. 1978

Arecastrum Becc.

1 ; Brazil. Cultivated.

romanzoffianum (Cham.) Becc.

32 Janaki Ammal, E.K. (D. 1945) ; Satô, D. 1946

Cocos romanzoffiana Cham.

32 Sarkar, S.K. 1958

Arenga Labill.

11; Indo-Malesia (excluding New Guinea), Caroline and Christmas Islands. 3; Assam and Western Ghats a few cultivated.

obtusifolia Mart.

32 Sharma, A.K. & Sarkar, S.K. 1957a; Sarkar, A.K., Mallick, R. *et al.* 1977

pinnata (Wurm.) Merr.

26 Janaki Ammal, E.K. (D. 1945)
32 Satō, D. 1946

saccharifera Labill.

32 Venkatasubban, K.R. 1945b; Sharma, A.K. & Sarkar, S.K. 1957a

Arikuryroba Barb. Rodr.

3; Brazil. 1; cultivated.

schizophylla Becc.

Cocos schizophylla Mart.

32 Venkatasubban, K.R. 1945b; Sharma, A.K. & Sarkar, S.K. 1957a

Borassus Linn.

8; palaeotropics. 1; dry parts of India, and Sri Lanka.

labeilloser Linn.

36 Venkatasubban, K.R. 1945b; Bosch, E. 1947; Sharma, A.K. & Sarkar, S.K. 1956b, 1957a; Sarkar, S.K. 1957; Rangasamy, S.R.S. & Devasahayam, P. 1972; Stephen, J. 1974

Calamus Linn.

375; palaeotropics. 39; mostly in Eastern Himalaya, Western Ghats, Andaman and Nicobar Islands, and Bhutan, Bangla Desh and Sri Lanka.

arborescens Griff

26 Sarkar, A.K., Datta, N. *et al.* 1976

28 Sharma, A.K. & Sarkar, S.K. 1957a
khasianus Becc.

28 Sharma, A.K. & Sarkar, S.K. 1957a

leptospadix Griff.

28 Sharma, A.K. & Sarkar, S.K. 1957a

rotang Linn.

26 Sarkar, A.K., Datta, N. *et al.* 1976
28 Sharma, A.K. & Sarkar, S.K. 1957a

viminalis Champ.

26 Sarkar, A.K., Datta, N. & Chatterjee, U. 1978

Caryota Linn.

12; Sri Lanka, Indo-Malesia, Solomon Islands and North East Australia. 3; throughout the hotter parts of India, Assam and Andaman Islands, and Sri Lanka.

mitis Lour.

28 Eichhorn, A. 1957
32 Sharma, A.K. & Sarkar, S.K. 1957a; Sarkar, A.K., Datta, N. *et al.* 1978

urens Linn.

32 Satō, D. 1946; Sharma, A.K. & Sarkar, S.K. 1957a

Chamaecrops Linn.

2; West Mediterranean. 1; cultivated.

humilis Linn.

36 Satō, D. 1946; Read, R.W. 1965a

Chrysalidocarpus Wendl.

20; Pemba, Madagascar and Comoro Islands. 2; cultivated.

lutescens Wendl.

28 Gassner, G.G. 1941; Eichhorn, A. 1957
32 Venkatasubban, K.R. 1945b; Sharma, A.K. & Sarkar, S.K. 1957a

madagascariensis Becc.

32 Sarkar, A.K., Mallick, R. *et al.* 1977

Dypsis madagascariensis Nichols.

- 36 Venkatasubban, K.R. 1945b ; Sharma, A.K. & Sarkar, S.K. 1957a

Coccothrinax Sargent

50 ; South Florida and West Indies. 2 ; cultivated.

argentea Sargent ex Becc.

- 36 Satō, D. 1946 ; Read, R.W. 1963, 1965a

Cocos Linn.

1 ; cultivated throughout tropics.

zucifera Linn.

- 32 Santos, J.K. 1928 ; Gasner, G.G. 1941 ; Janaki Ammal, E.K. (D. 1945) ; Sharma, A.K. & Sarkar, S.K. 1957a ; Abraham, A. *et al.* 1961 ; Abraham, A. & Mathew, P.M. 1963 ; Ninan, C.A. & Raveendranath, T.G. 1975

var. *spicata*

- 32 Ninan, C.A. *et al.* 1961

Copernicia Mart.

30 ; tropical America and West Indies. 1 ; cultivated.

prolifera (Mill.) Moore*cerifera* Mart.

- 36 Janaki Ammal, E.K. (D. 1945)

Corypha Linn.

8 ; Sri Lanka, South East Asia and Indo-Malesia. 4 ; Bengal, Malabar coast, and Andaman Islands, and Sri Lanka - a few cultivated.

elata Roxb.

- 36 Sharma, A.K. & Sarkar, S.K. 1957a ; Ojha, L. 1958a,b

umbrellifera Linn.

- 36 Ojha, L. 1955, 1958b ; Sharma, A.K. & Sarkar, S.K. 1957a

Dictyosperma Wendl. & Drude

3 ; Mascarenes. 1 ; cultivated.

album Wendl. & Drude ex Scheff.

- 32 Venkatasubban, K.R. 1945b ; Sharma, A.K. & Sarkar, S.K. 1957a

Elaeis Jacq.

2 ; tropical America and tropical Africa. 1 ; cultivated.

guineensis Jacq.

- 32 Janaki Ammal (D. 1945) ; Venkatasubban, K.R. 1945b ; Satō, D. 1946 ; Sharma, A.K. & Sarkar, S.K. 1957a ; Hardon, J. & Tan, G.Y. 1969
36 Delay, C. 1947

Heterospathis Scheff.

18 ; Philippines, Palau and Marianne Islands, New Guinea and Solomon Islands. 1 ; cultivated.

elata Scheff.

- 32 Venkatasubban, K.R. 1945b ; Sharma, A.K. & Sarkar, S.K. 1957a

Hyphaene Gaertn.

30 ; warm Africa, Madagascar and Arabia. 2 ; 1 West coastal regions, 1 cultivated.

indica Becc.

- 36 Mahabale, T.S. & Chennaveeriah, M.S. 1956 ; Sarkar, A.K., Datta, N. *et al.* 1978

Latania Comm. ex Juss.

3 ; tropical East Africa and Mascarenes. 1 ; cultivated.

lontaroides (Gaertn.) Moore*commersonii* J.F. Gmel.

- 32 Sharma, A.K. & Sarkar, S.K. 1957a

rubra Jacq.

- 32 Venkatasubban, K.R. 1945b

Licuala Wurm.

100 ; South East Asia, Indo-Malesia, Bismark and Solomon Islands. 4 ; Eastern Himalaya and Andaman Islands a few cultivated.

grandis Wendl.

16 Sharma, A.K. & Sarkar, S.K. 1957a

paludosa Griff.

16 Sharma, A.K. & Sarkar, S.K. 1957a

peltata Roxb. ex Buch.-Ham.

28 Venkatasubban, K.R. 1945b ; Sharma, A.K. & Sarkar, S.K. 1957a

spicata Thunb.

28 Sharma, A.K. & Sarkar, S.K. 1957a ; Sarkar, A.K., Datta, N. *et al.* 1978

Livistona R.Br.

30 ; Indo-Malesia and Australia. 4 ; Eastern Himalaya a few cultivated.

australis (R.Br.) Mart.

36 Eichborn, A. 1953 ; Sharma, A.K. & Sarkar, S.K. 1957a

chinensis (Jacq.) R.Br. ex Mart.

36 Venkatasubban, K.R. 1945b ; Satô, D. 1946 ; Sharma, A.K. & Sarkar, S.K. 1957a ; Read, R.W. 1965a ; Sarkar, A.K., Datta, N. *et al.* 1978

rotundifolia (Lam.) Mart.

36 Venkatasubban, K.R. 1945b ; Sharma, A.K. & Sarkar, S.K. 1957a

Nannorrhops Wendl.

4 ; Arabia to North West India. 1 ; North West India, and Pakistan.

ritchiiana Wendl.

36 Read, R.W. 1965a

Oncosperma Blume

5 ; Sri Lanka, Indo-China and West Malaysia. 2 ; cultivated.

tigillarum (Jack) Ridley**filamentosum** Blume

32 Venkatasubban, K.R. 1945b ; Sharma, A.K. & Sarkar, S.K. 1957a

Phoenix Linn.

17 ; warmer parts of Africa and Asia. 8 ; tropical regions of India, and Sri Lanka a few cultivated.

canariensis Hort. ex Chab.

36 Beal, J.M. 1937 ; Satô, D. 1953

dactylifera Linn.

28 Němec, B. 1910 ; Beal, J.M. 1937 ; Dangeard, P. 1937 ; Doutat, E. 1944 ; Murin, A. & Chaudhri, I.I. 1970

humilis Royle

36 Beal, J.M. 1937 ; Sharma, A.K. & Sarkar, S.K. 1957a

paludosa Roxb.

36 Venkatasubban, K.R. 1945b ; Sharma, A.K. & Sarkar, S.K. 1957a ; Sarkar, A.K., Mallick, R. *et al.* 1977

psittilla Gaertn.**farinifera** Roxb.

36 Patel, J.S. & Narayana, G.V. 1937

reclinata Jacq.

36 Beal, J.M. 1937 ; Sarkar, A.K., Mallick, R. *et al.* 1977 ; Sarkar, A.K., Datta, N. & Chatterjee, U. 1978

rapicola Anders.

36 Sarkar, S.K. 1957 ; Sharma, A.K. & Sarkar, S.K. 1957a

syivestris (Linn.) Roxb.

36 Beal, J.M. 1937 ; Sarkar, S.K. 1957 ; Sharma, A.K. & Sarkar, S.K. 1957a

Phytelephas Ruiz & Pav.

15 ; tropical America. 1 ; cultivated.

macrocarpa Ruiz & Pav.

36 Eichborn, A. 1957

Pinanga Blume

115 ; South East Asia and Indo-Malesia. 8 ; chiefly in Eastern Himalaya (up

to 1,300 m), Andaman and Nicobar Islands, and Bhutan and Bangla Desh.

kuehlii Blume

28 Eichhorn, A. 1957

Pritchardia Seem. & Wendl.

35 ; Hawaii, Fiji etc 1 ; cultivated.

pacifica Seem. & Wendl.

36 Venkatasubban, K.R. 1945b ;
Sharma, A.K. & Sarkar, S.K. 1957a

Ptychosperma Labill.

38 : Kei Islands, New Guinea, Bismarck and Solomon Islands, and North Australia. 1 ; cultivated.

elegans (R. Br.) Blume

32 Kead, R.W. 1965b

macartheri Wendl.

32 Eichhorn, A. 1953

Scaevortia elegans R.Br.

32 Eichhorn, A. 1957

Raphia P. Beauv.

30 ; tropical and South Africa and Madagascar. 3 ; cultivated.

farinifera (Gaertn.) Hylander
ruffia Mart.

32 Satô, D. 1946

Rhapis Linn. f.

15 ; South China to Java. 2 ; cultivated.

excelsa (Thunb.) Henry ex Rehder

32 Bosch, E. 1947

fiabelliformis L'Hérit. ex Air.

36 Venkatasubban, K.R. 1945b ; Satô,
D. 1946 ; Sharma, A.K. & Sarkar,
S.K. 1957a

humilis Blume

36 Satô, D. 1946 ; Sharma, A.K. &
Sarkar, S.K. 1957a

72 Sarkar, A.K., Datta, N. & Chatterjee,
U. 1978

Roystonea O.F. Cook

17 ; Florida, Central and tropical South America and West Indies. 2 ; cultivated.

oleracea (Jacq.) O.F. Cook

36 Simmonds, N.W. 1954

Oreodoxa oleracea (Jacq.) Mart.

36 Sharma, A.K. & Sarkar, S.K. 1957a

regia (HBK) O.F. Cook

36 Shibata, K. 1962a

Oreodoxa regia HBK

36 Venkatasubban, K.R. 1945b ;
Eichhorn, A. 1957 ; Sharma, A.K. &
Sarkar, S.K. 1957a
38 Satô, D. 1953

Sabal Adans.

25 ; warmer regions of America and West Indies. 5 ; cultivated.

mexicana Mart.

36 Sharma, A.K. & Sarkar, S.K. 1957a

minor (Jacq.) Pers.

36 Bowden, W.M. 1945b ; Read, R.W.
1965a

adansonii Guora.

36 Venkatasubban, K.R. 1945b ; Sharma,
A.K. & Sarkar, S.K. 1957a

palmetto (Walt.) Lodd. ex Schult. & Schult. f.

36 Bowden, W.M. 1945b ; Janaki
Annal, E.K. (D. 1945) ; Read, R.W.
1965a

umbroculifera Mart.

36 Venkatasubban, K.R. 1945b

Thrinax Linn. f. ex Swartz

12 ; West Indies. 5 ; cultivated.

argentea Lodd.

36 Venkatasubban, K.R. 1945b ; Eich-
horn, A. 1953 ; Sharma, A.K. &
Sarkar, S.K. 1957a

barbadensis Lodd.

- 36 Eichhorn, A. 1957 ; Sharma, A.K. & Sarkar, S.K. 1957a

excelsa Lodd. ex Griseb.

- 36 Venkatasubban, K.R. 1945b ; Read, R.W. 1963

radiata Lodd. ex Schult. & Schult. f.*floridana* Sarg.

- 36 Read, R.W. 1963, 1964, 1965a

Trachycarpus Wendl.

8 : Himalaya and East Asia. 2 ; Himalaya (up to 2,660 m), and Nepal 1 cultivated.

fortunei (Hook.) Wendl.

- 36 Satō, D. 1946 ; Eichhorn, A. 1957

excelsus Wendl.var. *fortunei* Mak.

- 36 Sinoto, Y. 1928a, 1929b

martianus (Wall.) Wendl.*Chamaerops martiana* Wall.

- 36 Eichhorn, A. 1957

Wallichia Roxb.

6 ; Eastern Himalaya to South China. 4 ; Eastern Himalaya, and Bangla Desh a few cultivated.

densiflora (Mart.) Mart.

- 32 Read, R.W. 1965b ; Sarkar, A.K., Datta, N. & Chatterjee, U. 1978 ; Sarkar, A.K., Datta, N. et al. 1978

disticha T. Ander.

- 32 Sawant, N.A. 1975

Washingtonia Wendl.

2 ; South California, Arizona and North Lower California. 2 ; cultivated.

glifera (Lind.) Wendl.

- 24 Némec, B. 1910
36 Satō, D. 1952

robusta Wendl.

- 36 Read, R.W. 1965a

BROMELIACEAE Juss.

44/1,400 ; tropical America and West Indies. 3/3 ; cultivated.

Ananas Mill.

5 ; tropical America. 1 ; cultivated.

comosus (Linn.) Merr.

- 50, 75, 100 Collins, J.L. & Kerns, K.R. 1935, 1936, 1938

sativus Schult.

- 50 Collins, J.L. & Kerns, K.R. 1931 ; Sharma, A.K. & Ghosh, I. 1971

sativus Schult.var. *variegatus*

- 50 Sharma, A.K. & Ghosh, I. 1971

sp.

- 50 Sharma, A.K. & Ghosh, I. 1971

Bromelia Linn.

40 ; tropical America and West Indies. 1 ; cultivated.

plungata Linn.

- 96 Collins, J.L. & Kerns, K.R. 1931

Pitcairnia L'Hérit.

250 ; tropical America, West Indies, 1 in West Africa (Senegal). 1 ; cultivated.

caerulea Benth. & Hook.

- 50 Sachdeva, S.K. 1977 ; Mehra, P.N. & Sachdeva, S.K. 1979

BURMANNIACEAE Blume

17/125 ; tropics and subtropics, North to Japan and East United States, South to Tasmania and New Zealand, 3/8 ; Himalaya, Deccan Peninsula, and Tamil Nadu, and Nepal, Bangla Desh and Sri Lanka.

Burmannia Linn.

57 ; tropics and subtropics. 6 ; Himalaya and Deccan Peninsula, and Nepal, Bangla Desh and Sri Lanka.

candida Engl.*

12 Ernst, A. & Bernard, C. 1912a

championii Thwaites

12 Ernst, A. & Bernard, C. 1912a

coelestis G. Don

30-36 Ernst, A. & Bernard, C. 1912b

c.32 Larsen, K. 1962 ; Sarkar, A.K. *et al.* 1973a

disticha Linn.

c.136 Larsen, K. 1963b

wallichii Hook. f.

36 Larsen, K. 1963b

BUTOMACEAE Rich.

1/1 ; temperate Eurasia. Punjab and Kashmir.

Butomus Linn.

1 ; temperate Eurasia. Punjab and Kashmir (up to 1,600 m).

umbellatus Linn.

16 Liebr, O. 1916

20 Sharma, A.K. & Chatterjee, T. 1967

22 Holmgren, L. 1913

24 Delay, C. 1947

26 Whitaker, T.W. 1934 ; Rao, Y.S.

1953b ; Harada, I. 1956 ; Skalińska, M. (Skalińska, M. *et al.* 1961) ; Löve, A. & Löve, D. 1964 ; Schotzman, H.D. 1970 ; Mehra, P.N. & Pandita, T.K. 1978 ; Löve, A. *et al.* 1980

26, 39 Lohammer, G. (Löve, A. & Löve, D. 1948) ; Löve, A. & Löve, D. 1961b

26, c.40 Tischler, G. 1934

28, 40 Lohammer, G. 1931b

39 Mehra, P.N. & Pandita, T.K. 1979

40, 42 Terby, J. 1922

CANNACEAE Juss.

1/55 ; America. A few cultivated.

*The combination *Burmannia candida* should be attributed to Griff. (FHL, 5 : 665).

Canna Linn.

55 ; America. A few cultivated.

edulis Ker-Gawl.

- 18 Belling (Tischler, G. 1931) ; Simmonds, N.W. 1954 ; Said, D. 1960 ; Khoshoo, T.N. & Mukherjee, I. 1970
 18, 27 Mukherjee, I. & Khoshoo, T.N. 1971
 27 Venkatasubban, K.R. 1946

indica Linn.

- 18 Kuwada (Tischler, G. 1927a) ; Belling, J. 1921 ; Heitz, E. 1926 ; Honing, J.A. 1928 ; Delay, C. 1947 ; Said, D. 1948, 1960 ; Bisson, S. *et al.* 1968 ; Khoshoo, T.N. & Mukherjee, I. 1970 ; Segeren, W. & Mass, P.J.M. 1971 ; Khoshoo, T.N. 1979
 27 Belling, J. 1925

var. *orientalis*

- 18 Jha, R.P. & Jha, D. 1968b

COMMELINACEAE R.Br.

38/500 ; mostly in tropics and subtropics. 13/87 ; Southern and Western India, tropical Eastern Himalaya, and Nepal, Bhutan, Pakistan, Bangla Desh and Sri Lanka.

Amischophacelus Rolla Rao & Kamm.

2 ; tropics. 2 ; 1 Western Ghats, 1 throughout India, and Sri Lanka.

axillaris (Linn.) Rolla Rao & Kamm.

- 20 Fotedar, J.L. & Roy, S.K. 1969a ; Rao, R.S. *et al.* 1970
 24 Malla, S.B., Bhattarai, S. *et al.* 1978b

Cyanotis axillaris (Linn.) Schult. f.

- 18+2f, 20,
 20+1-2f Panigrahi, G. & Kammathy, R.V. 1966
 20 Murthy, K.L. 1934 ; Islam, A.S. & Baten, A. 1952 ; Sharma, A.K. 1955 ; Kammathy, R.V. & Rao, S.R. 1961b ; Raghavan, R.S. & Rao, S.R. 1961 ; Shetty, B.V. & Subramanyam, K. 1961, 1962 ; Mitra, K. & Datta, N. 1967 ; Fotedar, J.L. & Roy, S.K. 1969c ; Jones, K. & Jopling, C. 1972 ; Bhattacharya, B. 1975 ; Sampathkumar, R. & Ayyangar, K.R. 1978

cauculata (Roth) Rolla Rao & Kamm.

- 20 Rao, R.S. *et al.* 1970

Cyanotis cauculata Kunth

- 20 Kammathy, R.V. & Rao, S.R. 1961b ; Raghavan, R.S. & Rao, S.R. 1961 ; Shetty, B.V. & Subramanyam, K. 1962

Amischotolype Hassk.

20 ; tropical Africa, South East Asia and Indo-Malesia. 2 ; Eastern Himalaya and Bhutan and Bangla Desh.

hookeri (Hassk.) Hara*Forrestia hookeri* Hassk.

- 36 Rao, R.S. *et al.* 1960 ; Biswas, B.K. 1960a

mollissima Hassk.var. *marginata* (Blume) Rolla Rao

- 36 Rao, R.S. *et al.* 1970

Forrestia marginata Hassk.

- c.36 Rolla *et al.* (Rao, R.S. *et al.* 1970)
 36 Jones, K. & Jopling, C. 1972

Aneilema R. Br.

100 ; warm regions, especially old world. 8 ; chiefly in Eastern and Southern India, and Bhutan, Bangla Desh and Sri Lanka.

moetanum Wight

- 28 Kammathy, R.V. & Rao, S.R. 1961b ; Shetty, B.V. & Subramanyam, K. 1961, 1962 ; Rao, R.S. *et al.* 1970

oralifolium (Wight) Clarke

- 28 Kammathy, R.V. & Rao, S.R. 1965 ;
Rao, R.S. *et al.* 1970

scaberrimum (Blume) Kunth

- 58 Kammathy, R.V. & Rao, S.R. 1965 ;
Rao, R.S. *et al.* 1970

thomsoni Clarke

- c.48 Panigrahi & Kammathy (Rao, R.S.
et al. 1970)

Tricarpelema thomsoni (Clarke) Morton

- c.46 Rao, R.S. 1964a (Morton, J.K. 1966)

Belosynapsis Hassk.

6 ; Indo-Malesia. 2 ; Southern India.

kewensis Hassk.

- 52 Sundararaghavan & Rao 1965 (Rao,
R.S. *et al.* 1970) ; Jones, K. &
Jopling, C. 1972

Cyanotis kewensis Clarke

- 52 Guervin, C. & LeCoq, C. 1966 ;
Heitz, B. 1968

vivipara Fisch.

- 52 Sundararaghavan & Rao 1965 (Rao,
R.S. *et al.* 1970)

Commelina Linn.

230 ; tropics and subtropics. 25 ; chiefly
in Southern and Western India, a few
throughout India, and Nepal, Pakistan,
Bangla Desh and Sri Lanka.

albescens Hassk.

- 30 Rao, R.S. *et al.* 1968, 1970 ; Sundara-
raghavan (Rao, R.S. *et al.* 1972) ;
Baquar, S.R. & Saeed, V.A. 1977
60 Lewis, W.H. & Taddesse, E. 1964

attenuata Koen.

- 48 Kammathy, R.V. & Rao, S.K. 1961a ;
Rao, R.S. *et al.* 1970

beoghalensis Linn.

- 22 Ganguly, J.K. 1946 ; Sharma, A.K.
1955 ; Kammathy, R.V. & Rao, S.R.
1961a ; Shetty, B.V. & Subramanyam,
K. 1961 ; Panigrahi, G. & Kam-
mathy, R.V. 1962 ; Mitra, K. &

Datta, N. 1967 ; Fotedar, J.L. &
Roy, S.K. 1969a, c ; Fujishima, H.
1969 ; Bhattacharya, B. 1975 ; Mehra,
P.N. & Sachdeva, S.K. 1976c ;
Baquar, S.R. & Saeed, V.A. 1977 ;
Bir, S.S. & Sidhu, M. 1980 ; Brunel,
J.F. & Fonteneau, A.M. 1980

22, 22+1-

2B Malik, C.P. 1961b ; Shetty, B.V. &
Subramanyam, K. 1961, 1962 ;
Panigrahi, G. & Kammathy, R.V.
1962, 1964 ; Fukumoto, K. 1964

22+0-4B Zaman, M.A. & Ahmed, M. 1971

22, 28, 44,

56, 66 Morton, J.K. 1967

22, 44 Lewis, W.H. 1964 ; Lewis, W.H. &
Taddesse, E. 1964

28, 56 Morton, J.K. 1956b

30 Harvey 1966

44, 66 Jones, K. & Jopling, C. 1972

48 Anderson, E. & Sax, K. 1936

66 Heitz, B. 1968

68 Darlington, C.D. 1929a

clavata Clarke

- 90 Kammathy, R.V. & Rao, S.R. 1961a ;
Sundararaghavan & Rao 1965

coelestis Willd.

- 90 Darlington, C.D. 1929a, b ; Ander-
son, E. & Sax, K. 1936 ; Mehra, P.N.
& Sachdeva, S.K. 1976c, 1979 ;
Sachdeva, S.K. 1977

diffusa Burm. f.

28 Morton, J.K. 1956b

28, 30, 42,

c.45, 56,-

58, 60 Morton, J.K. 1967

28, 30, 60 Bhattacharya, B. 1975

30 Simmonds, N.W. 1954 ; Kammathy,

R.V. & Rao, S.R. 1961a ; Raghavan,

R.S. & Rao, S.R. 1961 ; Lewis, W.H.

et al. 1962 ; Panigrahi, G. & Kam-

mathy, R.V. 1962, 1964 ; Lewis, W.H.

1964 ; Lewis, W.H. & Taddesse, E.

1964 ; Kammathy, R.V. & Rao, S.R.

1965 ; Lewis, W.H. *et al.* 1967 ;

Fotedar, J.L. & Roy, S.K. 1969a ;

Jones, K. & Jopling, C. 1972 ;

Brunel, J.F. & Fonteneau, A.M. 1980

sup. aquatica Morton

- c.84 Fotedar, J.L. & Roy, S.K. 1969c

- ssp. diffusa*
28, 30 Morton, J.K. 1967
1962 (Rao, R.S. *et al.* 1970);
Bhattacharya, B. 1975
- nudiflora auct. non Linn.*
28, 56 Sharma, A.K. & Sharma, A. 1958a
(Rao, R.S. *et al.* 1970)
35, 42 Sharma, A.K. 1955 (Rao, R.S. *et al.*
1970)
56 Darlington, C.D. 1929a (Rao, R.S.
et al. 1970)
- cusifolia* R.Br.
90 Kammathy, R.V. & Rao, S.R. 1961a,
1965
- forskalaiei* Vahl
28 Morton, J.K. 1956b, 1967; Malik,
C.P. 1961b
30 Kammathy, R.V. & Rao, S.R. 1961a;
Raghavan, R.S. & Rao, S.R. 1961;
Shetty, B.V. & Subramanyam, K.
1961, 1962; Lewis, W.H. & Taddesse,
E. 1964
- hasakarili* Clarke
c.84 Fotedar, J.L. & Roy, S.K. 1969a
90 Raghavan, R.S. & Rao, S.R. 1961;
Kammathy, R.V. & Rao, S.R. 1965;
Mehra, P.N. & Sachdeva, S.K. 1976c
- imberbis* Ehrenb. *ex* Hassk.
30 Lewis, W.H. 1964
- Jacobi* Fisch.
30 Kammathy, R.V. & Rao, S.R. 1961a;
Shetty, B.V. & Subramanyam, K.
1962
- indehiscens* Barnes
150 Kammathy, R.V. & Rao, S.R. 1965
- korschyi* Hassk.
30 Kammathy, R.V. & Rao, S.R. 1965
- longifolia* Lam.
90 Kammathy, R.V. & Rao, S.R. 1965
- salicifolia* Roxb.
75 Sharma, A.K. 1955 (Rao, R.S. *et al.*
1970)
90 Bhattacharya, B. 1975
- maculata* Edgew.
60 Kammathy, R.V. & Rao, S.R. 1965
- paludosa* Blume
var. *viscida* (Clarke) Rao & Kamm.
60 Panigrahi, G. & Kammathy, R.V.
1962 (Rao, R.S. *et al.* 1970);
Bhattacharya, B. 1975
- paleata* Hassk.
90 Kammathy, R.V. & Rao, S.R. 1961a,
1965
- paludosa* Blume
60 Kammathy, R.V. & Rao, S.R. 1961a,
1965
60, c.110 Panigrahi, G. & Kammathy, R.V.
1962
75 Baquar, S.R. & Saeed, V.A. 1977
120 Raghavan, R.S. & Rao, S.R. 1961;
Bhattacharya, B. 1975
- obliqua* Buch.-Ham.
45, 60 Sharma, A.K. & Sharma, A. 1958a
c.60 Jones, K. & Jopling, C. 1972
60 Hsu, C.-C. 1971; Mehra, P.N. &
Sachdeva, S.K. 1976c
60, 120 Malik, C.P. 1961b
150 Sharma, A.K. 1955
- sikkimensis* Clarke
60 Sharma, A.K. & Sharma, A. 1958a;
Bhattacharya, B. 1975
90 Panigrahi, G. & Kammathy, R.V.
1962, 1964; Kammathy, R.V. & Rao,
S.R. 1965; Lewis, W.H. *et al.* 1967
- subulata* Roth
30 Lewis, W.H. & Taddesse, E. 1964;
Morton, J.K. 1967; Jones, K. &
Jopling, C. 1972
60 Kammathy, R.V. & Rao, S.R. 1961a;
Raghavan, R.S. & Rao, S.R. 1961
- suffruticosa* Blume
60 Kammathy, R.V. & Rao, S.R. 1961a;
Panigrahi, G. & Kammathy, R.V. 1962,
1964; Kammathy, R.V. & Rao, S.R.
1965; Sarkar, A.K. *et al.* 1973b;
Zaman, M.A. & Begum, R. 1974
- undulata* R. Br.
62 Rao, R.S. *et al.* 1960
- erecta* Linn.
56, 60,
c.120 Morton, J.K. 1967
120 Malik, C.P. (Rao, R.S. *et al.* 1970)
- kurzii* Clarke
90 Kammathy, R.V. & Rao, S.R. 1965
90, 120 Kammathy, R.V. & Rao, S.R. 1961a
120 Fotedar, J.L. & Roy, S.K. 1969a, c

livingstonii Clarke

- 56 Morton, J.K. 1956b
- 60 Lewis, W.H. 1964

Cyanotis D. Don

50; palaentropica. 16; mostly in Southern and Western India, and Sri Lanka.

adscendens Dalz.

- 48 Kammathy, R.V. & Rao, S.R. 1961b (Rao, R.S. *et al.* 1970); Rao, R.S. *et al.* 1970

tuberosa (Roxb.) Schult.

var. *adscendens* (Dalz.) Clarke

- 48 Raghavan, R.S. & Rao, R.S. 1961 (Rao, R.S. *et al.* 1970); Kammathy, R.V. & Rolla, S.R. 1963

arachnoides Clarke

- 22, 24 Kammathy, R.V. & Rao, S.R. 1961b; Kammathy, R.V. & Rolla, S.R. 1963
- 22, 26 Sundararaghavan & Rao 1965
- 24 Shetty, B.V. & Subramanyam, K. 1961, 1962; Morton, J.K. 1967; Jones, K. & Jopling C. 1972

var. *thwaitesii* Rolla Rao & Kamm.

- 22, 24, 26 Rao, R.S. *et al.* 1970

papilionacea auct., pro parte

- 16 Shetty, B.V. & Subramanyam, K. 1962 (Rao, R.S. *et al.* 1970)
- 24 Sundararaghavan & Rao 1965

burmanniana Wight

- 24 Kammathy, R.V. & Rao, S.R. 1965

cerifolia Rolla Rao & Kamm.

- 24 Kammathy, R.V. & Rao, S.R. 1965; Raghavan, R.S. & Rao, S.R. (Rao, R.S. *et al.* 1970)

concanensis Hassk.

- 72 Kammathy, R.V. & Rao, S.R. (Rao, R.S. *et al.* 1970); Raghavan, R.S. & Rao, S.R. (Rao, R.S. *et al.* 1970); Rao, R.S. *et al.* 1970

sahyadrica Blatter

- 72 Kammathy, R.V. & Rao, S.R. 1965

crispata (Linn.) D. Don

- 24 Sharma, A.K. 1955; Kammathy, R.V. & Rao, S.R. 1961b; Raghavan, R.S.

- & Rao, S.R. 1961; Shetty, B.V. & Subramanyam, K. 1961, 1962; Panigrahi, G. & Kammathy, R.V. 1966; Heitz, B. 1968; Fotedar, J.L. & Roy, S.K. 1969a, c; Bhattacharya, B. 1975; Mehra, P.N. & Sachdeva, S.K. 1976c; Sarkar, A.K., Chakraverty, M. *et al.* 1980

- 24 + 0-1B Islam, A.S. & Baten, A. 1952

- 26 Jones, K. & Jopling, C. 1972

- 30 Guervin, C. & LeCoq, C. 1966

fasciculata (Heyne ex Roth) Schult. f.

- 22 Panigrahi, G. & Kammathy, R.V. 1966

- 24 Raghavan, R.S. & Rao, S.R. 1961; Shetty, B.V. & Subramanyam, K. 1962; Kammathy, R.V. & Rao, S.R. 1965; Jones, K. & Jopling, C. 1972; Bhattacharya, B. 1975

obtusa Trimen

- 24 Kammathy, R.V. & Rao, S.R. (Rao, R.S. *et al.* 1970)

pilosa Schult. f.

- 24 Kammathy, R.V. & Rao, S.R. 1961b; Kammathy, R.V. & Rolla, S.R. 1963; Jones, K. & Jopling, C. 1972

tuberosa (Roxb.) Schult. f.

- 24 Shetty, B.V. & Subramanyam, K. 1962

- 24, 4B Rao, R.S. *et al.* 1970

- 24, 4B, 72 Kammathy, R.V. & Rao, S.R. 1961b; Raghavan, R.S. & Rao, S.R. 1961; Kammathy, R.V. & Rolla, S.R. 1963

vaga (Lour.) Schult. f.

- 24 Kammathy, R.V. & Rao, S.R. 1965; Bhattacharya, B. 1975

barbata D. Don

- 20 Thulin, M. 1970

- 20, 24 Morton, J.K. 1967

- 22 Lewis, W.H. 1964

- 24 Sharma, A.K. & Sharma, A. 1958a; Shetty, B.V. & Subramanyam, K. 1962; Panigrahi, G. & Kammathy, R.V. 1966; Mehra, P.N. & Sachdeva, S.K. 1976c

villosa Schult. f.

- 24 Shetty, B.V. & Subramanyam, K. 1961, 1967; Kammathy, R.V. & Rolla, S.R. 1963; Jones, K. &

- Jopling, C. 1972 ; Bhattacharya, B. 1975
- 24, 26 Panunganti (Rao, R.S. *et al.* 1970) ; Rao, R.S. *et al.* 1970
- 24, 26, 48 Rao, P.N. 1970
- 26 Sundara ragbavan & Rao 1965
- wightii* Clarke
- 24 Rao, R.S. *et al.* 1968
- Floscopa** Lour.
- 25 ; tropics and subtropics. 1 ; throughout India, and Nepal, Pakistan, Bangla Desh, and Sri Lanka.
- scandens* Lour.
- 22 Zaman, M.A. & Chakraborty, H.N. 1977
- 24 Kammathy, R.V. & Rao, S.R. 1961b ; Baquar, S.R. 1967-1968 ; Rao, R.S. *et al.* 1970
- 30 Bhattacharya, B. 1975
- 54 Jones, K. & Jopling, C. 1972
- Murdannia** Royle
- 50 ; tropics. 23 ; chiefly in Southern and Western India, and tropical Himalaya, and Nepal, Bhutan and Sri Lanka.
- dimorpha* (Daltz.) Brückn.
- 20 Kammathy, R.V. & Rao, S.R. 1961b
- divergens* (Clarke) Brückn.
- 60 Panigrahi, G. & Kammathy, R.V. 1961 (Shetty, B.V. & Subramanyam, K. 1962)
- Anellema divergens* Clarke
- 32 Chuang, T.F. *et al.* 1963
- 60 Mehra, P.N. & Sachdeva, S.K. 1971, 1976c
- elata* (Vahl) Brückn.
- 40, 42, 64 Rao, R.S. *et al.* 1970
- 42 Panigrahi, G. & Kammathy, R.V. (Rao, R.S. *et al.* 1970)
- 64 Kammathy, R.V. & Rao, S.R. 1961b
- Anellema herbaceum* Wall.
- 40 Sharma, A.K. & Sharma, A. 1958a
- esculenta* (Wall. ex Clarke) Rolla Rao & Kamm.
- 20 Kammathy, R.V. & Rao, S.R. 1961b
- gigantea* (Vahl) Brückn.
- 22 Rao, R.S. *et al.* 1960 ; Panigrahi, G. & Kammathy, R.V. 1961
- 22, 44 Kammathy, R.V. & Rao, S.R. 1961a ; Rao, R.S. *et al.* 1970
- hookeri* (Clarke) Brückn.
- 20 Kammathy, R.V. & Rao, S.R. 1965
- jancooides* (Wight) Rolla Rao & Kamm.
- 24 Kammathy, R.V. & Rao, S.R. 1965
- lociformis* (Hassk.) Rolla Rao & Kamm.
- 39 Panigrahi, G. & Kammathy, R.V. (Rao, R.S. *et al.* 1970)
- 40 Kammathy, R.V. & Rao, S.R. 1961b ; Shetty, B.V. & Subramanyam, K. (Rao, R.S. *et al.* 1970)
- modiflora* (Linn.) Brennan
- 20 Kammathy, R.V. & Rao, S.R. 1961a ; Panigrahi, G. & Kammathy, R.V. 1961 ; Morton, J.K. 1967 ; Fotedar, J.L. & Roy, S.K. 1969a ; Jones, K. & Jopling, C. 1972 ; Bhatt, R.P. 1974, 1976 ; Bhattacharya, B. 1975
- malabarica* (Linn.) Brückn.
- 20 Mitra, K. & Datta, N. 1967
- Anellema nudiflorum* R.Br.
- 20 Sharma, A.K. 1955 ; Fotedar, J.L. & Roy, S.K. 1969c ; Mehra, P.N. & Sachdeva, S.K. 1976c
- ochracea* (Daltz.) Brückn.
- 36, 60 Raghavan, R.S. 1961 ; Rao, R.S. *et al.* 1970
- scapiflora* (Roxb.) Royle
- 18 Kammathy, R.V. & Rao, S.R. 1961b ; Shetty, B.V. & Subramanyam, K. 1971
- semiteres* (Daltz.) Santap.
- 12 Kammathy, R.V. & Rao, S.R. 1965
- 12, 24 Rao, R.S. *et al.* 1970
- 14, 20, 40 Raghavan, R.S. & Rao, S.R. 1961
- 24 Kammathy, R.V. & Rao, S.R. 1961b
- simplex* (Vahl) Brennan
- 40 Lewis, W.H. 1964 ; Morton, J.K. 1966, 1967 ; Jones, K. & Jopling, C. 1972 ; Brunel J.F. & Fonteneau, A.M. 1980
- 40, 60, 80 Rao, R.S. *et al.* 1970
- 60 Kammathy, R.V. & Rao, S.R. 1961b ;

- Raghavan, R.S. & Rao, S.R. 1961 ;
 Malik, C.P. (Rao, R.S. *et al.* 1970)
 80 Panigrahi, G. & Kammathy, R.V.
 1961

spirata (Linn.) Brückn.

- 18 Raghavan, R.S. & Rao, S.R. 1961
 20, 40 Rao, R.S. *et al.* 1970
 40 Kammathy, R.V. & Rao, S.R. 1961b ;
 Panigrahi, G. & Kammathy, R.V.
 1962 ; Kammathy, R.V. & Rao, S.R.
 1965 ; Fotedar, J.L. & Roy, S.K.
 1969a ; Jones, K. & Jopling, C. 1972 ;
 Bhattacharya, B. 1975

Aneilema spiratum R.Br.

- 20 Sharma, A.K. & Sharma, A. 1958a
 40 Murthy, K.L. 1934

vaginata (Linn.) Brückn.

- 40 Kammathy, R.V. & Rao, S.R. 1965

Aneilema vaginatum R. Br.

- 40 Sharma, A.K. & Sharma, A. 1958a

wightii Rolla Rao & Kamm.

- 18 Kammathy, R.V. & Rao, S.R. 1965

pauciflora (Wight) Brückn.

- 20 Raghavan, R.S. & Rao, S.R. 1961

Pollia Thunb.

16 ; Palaeotropics. 5 ; Eastern Himalaya
 (up to 1,300 m), South Andaman Islands,
 and Nepal, Bhutan, Bangla Desh and Sri
 Lanka.

baskertii Rolla Rao

- 32 Kammathy, R. V. & Rao, S.R. 1965

secundiflora (Blume) Backer

- 32 Kammathy, R.V. & Rao, S.R. 1965

saxagonensis Mey.

- 20 Hsu, C.-C. 1972

subumbellata Clarke

- 10 Darlington, C.D. 1937
 32 Kammathy, R.V. & Rao, S.R. 1965

Rhoeo Hance

1 ; Mexico, Central America and Cuba.
 Cultivated.

spathacea (Swartz) Stearn

- 12 Jones, K. & Jopling, C. 1972,
 Verma, S.C. & Ohri, D. 1979b
 12, 18 Lin, Y.J. & Paddock, E.F. 1978
 18 Lin, Y.J. & Lee, I.T. 1979
 24 Zimmermann, E. 1968

discolor (L'Hérit.) Hance

- 12 Suessenguth, K. 1921a, b; Darlington,
 C.D. 1929a, b ; Sax, K. 1931c,
 1935 ; Nebel, B.R. 1932a, b ; Ander-
 son, E. & Sax, K. 1936 ; Straub, J.
 1936 ; Haselwarter, A. 1937 ; Wu,
 S.H. 1942 ; Delay, C. 1947 ; Walters,
 M.S. & Gerstel, D.U. 1948 ; Caillon,
 M. 1958 ; Flagg, R.O. 1958 ; Satō,
 D. 1962 ; Puitanna, C.R. 1966 ;
 Heitz, B. 1967a ; Brown, W.V. &
 Stack, S.M. 1968 ; Lepper, L. 1968b

var. *concolor*

- 12 Lin, Y.J. 1979

Streptolirion Edgew.

1 ; Eastern Himalaya to Indo-china and
 Korea.

volabile Edgew.

var. *volabile*

- 12 Sharma, A.K. & Sharma, A. 1958a
 (Rao, R.S. *et al.* 1970) ; Kammathy,
 R.V. & Rao, S.R. 1965

var. *khaskana* Clarke

- 10 Panigrahi & Kammathy (Rao, R.S.
et al. 1970)

Tinantia Scheidw.*

8 ; Mexico to tropical South America
 and West Indies.

*Mehra, P.N. & Sachdeva, S.K. (1976c) have reported the chromosome number of *Tinantia fugax* Scheidw. [a synonym of *T. erecta* (Jacq.) Schlecht.] growing wild from Mussoorie (Uttar Pradesh). The investigated species might be perhaps a recent introduction or an escape from cultivation.

498 COMMELINACEAE

fogax Scheidw.

- 64 Anderson, E. & Sax, K. 1936
- 66 Mehra, P.N. & Sachdeva, S.K. 1976c
- 68 Darlington, C.D. 1929a, b

Tradescantia Linn.

60 ; North America to South America.
2 ; cultivated.

obtensis Raf.

canaliculata Raf.

- 12 Conard, A. 1928 (Mitsukuri, Y. & Kobayashi, K. 1962)
- 24 Anderson, E. & Sax, K. 1936
- 24+1-2B Mehra, P.N. & Sachdeva, S.K. 1976c
- 24+4B Mehra, P.N. & Pandita, T.K. 1978

virginiana Linn.

- 12 Anderson, E. & Sax, K. 1936
- 12, 24 Anderson, E. 1934
- 18 Darlington, C.D. 1937
- 18, 24 Bailey, P.C. & Luquire, K.B. 1967
- 24 Guignard, L. 1891 ; Miyake, K. 1905 ; Navaschin, S. 1911 ; Belling, J. 1927a ; Shadowsky, A.E. (Fedorov) ; Nebel, B.R. 1932a, b ; Delay, C. 1947 ; Vosa, C.G. 1961 ; Lima-de-Faria, A. & Boto, S. 1962 ; Gulcan,

R. & Sybenga, J. 1967 ; Heitz, B. 1967a ; Ichikawa, S. & Sparrow, A.H. 1967 ; Uhrliková, A. & Feráková, V. 1980

- 24, 24+1
- 6B Darlington, C.D. 1929a
- 24+6B Vosa, C.G. 1962

Zebrina Schnizl.

4-5 ; South United States to Central America. 1 ; cultivated.

pendula Schnizl.

- 23, 24, 47 Jones, K. & Jopling, C. 1972
- 24 Nebel, B.R. 1932a, b ; Sharma, A.K. 1954 ; Simmonds, N.W. 1954 ; Münch, J. 1957 ; Briggs, B.G. 1966 ; Heitz, B. 1967a ; Lepper, L. 1968b ; Venkateswarlu, J. & Panuganti, N.R. 1968 ; Fotedar, J.L. & Roy, S.K. 1969a ; Mattsson, O. 1971 ; Bhattacharya, B. 1975
- 24, 48 Darlington, C.D. 1929a ; Venkateswarlu, J. & Rao, P.N. 1962, 1963

var. *quadricolor*

- 23 Lalithambika Bai, K. & Kuriachan, P.I. 1980

COSTACEAE (K. Schum.) Nak.

4/200 ; tropics. 1/2 ; 1 greater part of India, and Sri Lanka, and 1 cultivated.

Costus Linn.

150 ; tropics. 2 ; 1 greater part of India (ascending Himalaya up to 1,300 m), and Sri Lanka, and 1 cultivated.

discolor Rosc.

- 18 Raghavan, T.S. & Venkatasubban, K.R. 1943 ; Sharma, A.K. & Bhattacharyya, N.K. 1959c

speciosus (Koen. ex Retz.) Smith

- 18 Satô, D. 1948, 1960
- 18, 27, 36 Subrahmanyam, G.V. 1978 (Khoshoo,

T.N. 1979) ; Nagendra, P. & Abraham, P.Z. 1981b ; Prasad, P.N. & Abraham, Z. 1981

- 18, 27, 36
- (13, 17, 72,
- 74 variant

nuclei)

- 27 Chattopadhyay, S. 1981
- 36 Simmonds, N.W. 1954
- Raghavan, T.S. & Venkatasubban, K.R. 1943 ; Chakravorti, A.K. 1948a, 1952b ; Sharma, A.K. & Bhattacharyya, N.K. 1959c ; Larsen, K. 1965c ; Mitra, K. & Datta, N. 1967 ; Ramachandran, K. 1969

CYCLANTHACEAE Dum. (*emend.* Lindl.)

11/180 ; tropical America. 2/2 ; cultivated.

Carludovica Ruiz & Pav. (*emend.* Harling)

3 ; Central and North West tropical South America. 1 ; cultivated.

palmata Ruiz & Pav.

18 Janaki Ammal, E.K. (D. 1945) ; Harling, G. 1958

CYPERACEAE Juss.

90/4,000 ; worldwide. 24/440 ; chiefly in the plains of India, and Nepal, Bhutan, Pakistan, Bangla Desh and Sri Lanka.

Ascopholis Fisch.

1 ; Southern India.

gambelii Fisch.

80 Nijalingappa, B.H.M. *et al.* 1978

Bulbostylis Kunth

100 ; warmer regions of the world. 4 ; almost throughout India (ascending Himalaya up to 2,800 m), and Sri Lanka.

barbata Kunth*

10 Tanaka, N. 1941 ; Mehra, P.N. & Sachdeva, S.K. 1975a ; Rath, S.P. & Patnaik, S.N. 1975

barbata (Rottb.) Clarke

10 KraJ, R. 1971 ; Rath, S.P. & Patnaik, S.N. 1978a

Fimbristylis barbata (Rottb.) Benth.

10 Nijalingappa, B.H.M. 1972, 1975a

capillaris Kunth

72 Sharma, B.R. 1962

deusa (Wall.) Hand.-Mazz.*capillaris* Kunth var. *trifida* Clarke

84 Tanaka, N. 1937

Carex Linn.

1,500 - 2,000 ; cosmopolitan, abundant in temperate regions. 148 ; throughout India (ascending Himalaya up to 5,000 m), a few in Western Ghats and mountains of Eastern India, and Nepal, Bhutan, Pakistan, Bangla Desh and Sri Lanka.

acutiformis Ehrh.

c.38 Reese, G. 1952b

78 Dietrich, J. 1964 ; Dietrich, W. 1972

alpina Swartz

56 Heilborn, O. 1922b, 1924

strata Linn.

18, 26 Hadač, E. & Hasková, V. 1956

48-52 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)

54 Heilborn, O. 1922b, 1924 ; Okunó, S. 1939 ; Levan (Löve, A. & Löve, D. 1942b) ; Löve, A. 1954b ; Davies, E.W. 1956a,b ; Löve, A. & Löve, D. 1956b, 1966 ; Jørgensen, C.A. *et al.*

*The combination *Bulbostylis barbata* was made by Clarke (PHD : 659).

500 CYPERACEAE

- 1958 ; Knaben, G. & Engelskjön, T.
1967 ; Dietrich, W. 1972
- 56 Tanaka, N. 1942e, 1948
- ssp. strata*
- 54 Murin, A. & Pačlova, L. 1979
- atrofusca* Schk.
- 36 Heilborn, O. 1924, 1928
- 36, 40 Löve, A. & Löve, D. 1948
- c.36, 38,
40 Jørgensen, C.A. *et al.* 1958
- 38 Levan (Jørgensen, C.A. *et al.* 1958) ;
Löve, A. & Löve, D. 1965a ; Löve,
A. & Ritchie, J.C. 1966 ; Knaben, G.
& Engelskjön, T. 1967 ; Johnson,
A.W. & Packer, J.G. 1968 ; Zhukova,
P.G. 1969
- 40 Sörensen & Westergaard (Löve, A. &
Löve, D. 1948) ; Dietrich, W. 1967
- c.42 Hedberg, O. 1967
- ssp. minor* (Boott) T. Koyama
- atrofusca* Schk. var. *minor*
- 48 Dietrich, W. 1972
- baecans* Nees
- 44 Heilborn, O. 1939
- 46 Nijalingappa, B.H.M. 1975c
- breviculmis* R.Br.
- 64, 68 Tanaka, N. 1939b
- 72 Okuno, S. 1939
- brunnea* Thunb.
- c.62 Heilborn, O. 1939
- 62 Tanaka, N. 1939b, c
- canescens* Linn.
- 54 Wahl, H.A. 1940
- 56 Heilborn, O. 1924 ; Tischler, G.
1934 ; Okuno, S. 1939 ; Levan (Löve,
A. & Löve, D. 1942b) ; Löve, A. &
Löve, D. 1956b, 1966 ; Knaben, G. &
Engelskjön, T. 1967 ; Knaben, G.
1968
- ssp. canescens*
- 56 Taylor, R.L. & Mulligan, G.A. 1968
- confertiflora* Boott
- 84 Okuno, S. 1940
- 92 Tanaka, N. 1942c
- curvica* Kunth
- 64 Sokolovskaya, A.P. & Strelkova, O.S.
(Fedorov)
- diantra* Schrank
- 60 Löve, A. & Löve, D. 1956b, 1965a ;
Löve, A. & Ritchie, J.C. 1966
- divisa* Huds.
- 14 Tarnavski, I.T. 1948
- 60 Kjellqvist, E. & Löve, A. 1963
- doniana* Spreng.
- c.40 Harling, G. 1945
- 62 Tanaka, N. 1937, 1939c
- ferruginea* Scop.
- 38, 39, 40 Dietrich, W. 1967
- 58 Tanaka, N. 1942b, f, 1948
- ssp. ferruginea*
- 39, 40 Dietrich, W. 1967
- filicina* Nees
- 14 Hsu, C. C. 1971
- 42 Mehra, P.N. & Sachdeva, S.K. 1971,
1975a
- 48 Sachdeva, S. K. 1977 ; Mehra, P.N.
& Sachdeva, S.K. 1979
- flacca* Schreb.
- 38, 76 Hess, H.E. *et al.* 1967
- 76 Tanaka, N. 1942e, 1948 ; Davies,
E.W. 1956a, b ; Löve, A. & Löve, D.
1956b ; Dietrich, W. 1972 ; Kliphuis,
E. & Wicffering, J.H. 1972 ; Nata-
rajan, G. 1979
- 90 Kjellqvist, E. & Löve, A. 1963
- ssp. flacca*
- 76 Murin, A. & Májovský, J. 1978
- flava* Linn.
- 58 Tanaka, N. 1942g, 1948
- 60 Heilborn, O. 1939 ; Wahl, H.A.
1940 ; Davies, E.W. 1955, 1956a, b ;
Löve, A. & Löve, D. 1956b ; Moore,
R.J. & Calder, J.A. 1964 ; Dietrich,
W. 1972
- 64 Heilborn, O. 1918
- 70 Heilborn, O. 1922b ; Tischler, G.
1934 ; Rohweder, H. 1937
- foliosa* D. Don
- muricata* Linn. var. *foliosa* (D. Don) Clarke
- 58 Mehra, P.N. & Sachdeva, S.K. 1971,
1975a

- glaucina* Boeck.
hindleyana Nees
 var. *major* Fisch.
 46 Nijalingappa, B.H.M. 1975c
- halleriana* Asso
 50 Dietrich, J. 1964
 52 Dietrich, W. 1972
 54 Kjellqvist, R. & Löve, A. 1963
- insignis* Boott
 48 Sachdeva, S.K. 1977; Mehra, P.N. & Sachdeva, S.K. 1979
- japonica* Thunb.
 62 Tanaka, N. 1937, 1939b, c; Okuno, S. 1939
- longicurvata* Nees
 52 Nijalingappa, B.H.M. *et al.* 1978
- longipes* Don
 42 Sachdeva, S.K. 1977; Mehra, P.N. & Sachdeva, S.K. 1979
- maritima* Gunn.
 60 Flovik (Löve, A. & Löve, D. 1942b); Holmen, K. 1952; Löve, A. & Löve, D. 1956b; Jakobsen (Jørgensen, C.A. *et al.* 1958); Löve, A. & Löve, D. 1965a; Löve, A. & Ritchie, J.C. 1966; Knaben, G. & Engolskjøn, T. 1967; Johnson, A.W. & Packer, J.G. 1968; Zhukova, P.G. & Petrovsky, V.V. 1971
- incurva* Lightf.
 60 Flovik, K. 1943
- melanantha* C.A. Meyer
 48 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a
 52 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)
 78 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)
- microglochis* Wahlenb.
 48 Dietrich, W. 1972
 58 Levan (Löve, A. & Löve, D. 1942b); Löve, A. & Löve, D. 1956b
- muricata* Linn.
 56, 58 Tanaka, N. 1948
 58 Heilborn, O. 1924; Tischler, G. 1934; Rohwedder, H. 1937; Tanaka, N. 1942d
- ssp. *muricata*
 56 Natarajan, G. 1979
- nubigena* D. Don
 104 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a
- pseudocyperas* Linn.
 66 Heilborn, O. 1924; Tischler, G. 1934; Rohwedder, H. 1937; Wahi, H.A. 1940
- pseudofestida* Kük.
 62 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)
- punctata* Gaud.
 68 Heilborn, O. 1924; Davies, E.W. 1956a, b; Dietrich, W. 1972
- remota* Linn.
 62 Heilborn, O. 1928; Tischler, G. 1934; Davies, E.W. 1956a, b; Dietrich, W. 1972; Mehra, P.N. & Sachdeva, S.K. 1975a; Muridi, A. & Májovský, J. 1978
- rigida* Good.
 70 Heilborn, O. 1924, 1928; Böcher, T.W. 1938a; Sørensen & Westergaard (Löve, A. & Löve, D. 1948)
- rochebrunii* Franch. & Savat.
 64 Okuno, S. 1939; Tanaka, N. 1939b, c
- rostrata* Stokes
 c.60 Ehrenberg, L. 1945
 72-74 Sokolovskaya, A.P. & Strelkova, O.S. 1948a
 76 Heilborn, O. 1922b, 1924; Tischler, G. 1934; Löve, A. & Löve, D. 1944b, 1956b
 82 Wahi, H. A. 1940
- songorica* Kar. & Kir.
 82 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)
- stenophylla* Wahlenb.
 60 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a; Dietrich, W. 1972
 62 Tanaka, N. 1948
- supina* Wahlenb.
 36 Jørgensen, C.A. *et al.* 1958
 38 Dietrich, J. 1964

502 CYPERACEAE

teretiuscula Good.

60 Heilborn, O. 1939

triploxiata Boeck.54 Sokolovskaya, A.P. & Strelkova, O.S.
(Fedorov)*tristis* M. Bieb.40-42 Sokolovskaya, A.P. & Strelkova, O.S.
(Fedorov)44 Sokolovskaya, A.P. & Strelkova, O.S.
(Fedorov)*vesicaria* Linn.74 Tanaka, N. 1942h, 1948; Löve, A. &
Löve, D. 1965a; Löve, A. & Ritchie,
J.C. 196682 Heilborn, O. 1922b, 1924; Tischler,
G. 1934; Rohwedder, H. 1937

86 Dietrich, W. 1972

vulgaris Fries

c.74 Löve, A. & Löve, D. 1944b

84 Tischler, G. 1934, 1930; Rohwedder,
H. 1937*Cladium* P. Br.50-60; tropical and temperate regions,
especially Australia, 1 almost cosmopolitan.
2; Kashmir, and Sri Lanka.*mariscus* (Linn.) Pohl39 Pfeiffer, H.H. 1942; Löve, A. 1954b;
Murin, A. & Májovský, J. 1978

c.60 Larsen, K. 1964

Courtoisia Nees2; Africa, Madagascar and India. 1;
Sikkim, Assam southwards to Peninsular
India.*cyperoides* (Roxb.) Nees

10 Rath, S.P. & Patnaik, S.N. 1978a, b

40 Nijalingappa, B.H.M. *et al.* 1978*Cyperus* Linn.1,468; tropical and warm temperate
regions. 104; chiefly in the plains, abundant
in Eastern India, and Nepal, Pakistan,
Bangla Desh and Sri Lanka.*alopecuroides* Rottb.

108 Nijalingappa, B.H.M. 1973d

alternifolius Linn.32 Tanaka, N. 1937; Kawano, S. 1965;
Sanyal, B. 1972*amabilis* Vahl32 Rath, S.P. *et al.* 197338 Mehra, P.N. & Sachdeva, S.K. 1971,
1975a*arenarius* Retz.

c.48 Rath, S.P. & Patnaik, S.N. 1978a,b

articulatus Linn.112 Sanyal, B. 1972; Sarkar, A.K. *et al.*
1976*babakensis* Steud.72 Rath, S.P. *et al.* 1973*brevifolius* (Rottb.) Hassk.32 Sarkar, A.K., Chakraverty, M. *et al.*
1977*Kyllinga brevifolia* Rottb.

116 Rath, S.P. & Patnaik, S.N. 1978a

120 Tanaka, N. 1941, 1948; Sharma, A.
& Sarkar, A.K. 1967-1968; Sanyal,
B. 1972

126 Rath, S.P. & Patnaik, S.N. 1975

castaneus Willd.

c.98 Rath, S.P. & Patnaik, S.N. 1978a, b

cephalotes Vahl42 Rath, S.P. & Patnaik, S.N. 1975,
1978a*compactus* Retz.*Mariscus compactus* (Retz.) Druce

86 Rath, S.P. & Patnaik, S.N. 1978a

Mariscus microcephalus Presl

86 Rath, S.P. & Patnaik, S.N. 1975

compressus Linn.96 Mehra, P.N. & Sachdeva, S.K. 1971,
1975a

c.98 Rath, S.P. & Patnaik, S.N. 1978a, b

128 Sharma, A. & Sarkar, A.K. 1967-
1968; Sanyal, B. 1972*conglomeratus* Rottb.

63 Reese, G. 1957

c.72 Murin, A. & Chaudhuri, I.I. 1970

corymbosus Rottb.

- 108 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a; Nijalingappa, B.H.M. *et al.* 1978
128 Sharma, A. & Sarkar, A.K. 1967-1968; Sanyal, B. 1972

cuspidatus HBK

- 112 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a

diaphanus Schrad., ex J.A. Schult.

Pycnus diaphanus (Roem. & Schult.)

S. Hooper & Koyama

- 50 Rath, S.P. & Patnaik, S.N. 1978a

difformis Linn.

- 26 Rath, S.P. *et al.* 1973
34 Sanyal, B. 1972; Baquar, S.R. 1978
36 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a; Nijalingappa, B.H.M. *et al.* 1978; Rath, S.P. & Patnaik, S.N. 1978a

diffusus Vahl

- 38 Rath, S.P. *et al.* 1973
c.38 Rath, S.P. & Patnaik, S.N. 1978a

digitatus Roxb.

- 108 Sharma, A. & Sarkar, A.K. 1967-1968; Sanyal, B. 1972

distans Linn.

- 48 Sharma, A. & Sarkar, A.K. 1967-1968; Sanyal, B. 1972
54 Rath, S.P. *et al.* 1973
58 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a

dubius Rottb.

Mariscus dubius (Rottb.) Kük.

- 112 Nijalingappa, B.H.M. *et al.* 1978

elegans Linn.

- 50 Sanyal, B. 1972

eragrostis Vahl

- 42 Bokhari, P.S. 1976, 1979

esculentus Linn.

- 18 Suzuki, O. 1953
108 Hicks, G.C. 1929; Heiser, C.B. & Whitaker, T.W. 1948; Rath, S.P. & Patnaik, S.N. 1975, 1978a

- 208 Sharma, A. & Sarkar, A.K. 1967-1968; Sanyal, B. 1972

exaltatus Retz.

- 90 Rath, S.P. *et al.* 1973
96 Mehra, P.N. & Sachdeva, S.K. 1975b, 1976f

flabelliformis Rottb.

- 30 Sharma, A.K. & Bal, A.K. 1954, 1956b

flavescens Linn.

- 70 Sarkar, A.K., Chakraverty, M. *et al.* 1977

flavidus Retz.*

- 16 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a; Rath, S.P. & Patnaik, S.N. 1972
20 Sharma, A. & Sarkar, A.K. 1967-1968; Sanyal, B. 1972

fiscus Linn.

- 48 Rath, S.P. *et al.* 1973
72 Löve, A. & Löve, D. 1944b

globosus All.

- 80 Rath, S.P. & Patnaik, S.N. 1975

Pycnus capillaris Nees

- 86 Mehra, P.N. & Sachdeva, S.K. 1975a

Pycnus globosus Reichb.

- 80 Sharma, B.R. 1962; Rath, S.P. & Patnaik S.N. 1978a

haspan Linn.

- 16 Sharma, A. & Sarkar, A.K. 1967-1968; Sanyal, B. 1972; Sarkar, A.K., Chakraverty, M. *et al.* 1978
26 Avdulov, N.P. (Fedorov); Nijalingappa, B.H.M. *et al.* 1978; Rath, S.P. & Patnaik, S.N. 1978a, b
30 Baquar, S.R. 1978
36 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a

imbriatus Retz.

- 110 Rath, S.P. & Patnaik, S.N. 1975, 1978a

**Cyperus flavidus* auct., FBI, 6 : 600, non Retz. is a synonym of *C. tenuisplea* Steud. (FHD : 670).

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inodatus Roxb.

- 10 Rath, S.P. & Patnaik, S.N. 1972
58 Rath, S.P. & Patnaik, S.N. 1974b
60 Rath, S.P. *et al.* 1973

irja Linn.

- 16 Hsu, C.-C. 1967
72 Baquar, S.R. 1967-1968 ; Rath, S.P. *et al.* 1973
c.72 Rath, S.P. & Patnaik, S.N. 1978a
128 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a

kyllingia Endl.

- 86 Rath, S.P. *et al.* 1973
124 Mehra, P.N. & Sachdeva, S.K. 1976f

Kyllinga monocephala Rottb.

- c.102 Rath, S.P. & Patnaik, S. N. 1978a
c.120 Baquar, S.R. 1967-1968
124 Mehra, P.N. & Sachdeva, S.K. 1975a

laevigatus Linn.

- 88 Nijalingappa, B.H.M. *et al.* 1978

Juncellus laevigatus (Linn.) Clarke

- 86 Sharma, B.R. 1962

metzii (Hochst.) Mattf. & Klük*Kyllinga squamulata* Vahl

- 22 Baquar, S.R. 1978
108 Sharma, B.R. 1962 ; Mehra, P.N. & Sachdeva, S.K. 1975a

melchiorianus (Linn.) Link

- 78 Rath, S.P. & Patnaik, S.N. 1978a

ssp. pygmaeus (Rottb.) Asch. & Graebn.*pygmaeus* Rottb.

- 78 Rath, S.P. & Patnaik, S. N. 1975

nivens Retz.

- 72 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a

ovata Vahl

- 56 Rath, S.P. & Patnaik, S.N. 1978a, b
58 Nijalingappa, B.H.M. *et al.* 1978

var. elensinnides (Kunth) Haines*elusinoides* Kunth

- 72 Rath, S.P. *et al.* 1973
104 Mehra, P.N. & Sachdeva, S.K. 1975b, 1976f

panicus (Rottb.) Boeck.*Mariscus panicus* (Rottb.) Vahl

- 84 Sharma, B.R. 1962 ; Mehra, P.N. &

Sachdeva, S.K. 1975a

- c.126 Rath, S.P. & Patnaik, S.N. 1978a

pilosus Vahl

- 16 Hsu, C.-C. 1967
36 Rath, S.P. & Patnaik, S.N. 1972, 1974b ; Rath, S.P. *et al.* 1973

platystylis R.Br.

- 40 Sharma, A. & Sarkar, A.K. 1967-1968 ; Sanyal, B. 1972 ; Rath, S.P. & Patnaik, S.N. 1975, 1978a

polystachyus R.Br.

- 98 Rath, S.P. *et al.* 1973

var. ferruginosus Boeck.

- 108 Sarkar, A.K. *et al.* 1976

Pycurus polystachyus (Rottb.) P. Beauv.

- 96 Sanyal, B. 1972
106 Rath, S.P. & Patnaik, S.N. 1978a

procerus Rottb.

- 104 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a

pulcherrimus Willd. ex Kunth

- 26 Rath, S.P. & Patnaik, S.N. 1972, 1974b ; Rath, S.P. *et al.* 1973

pumilus Linn.

- 90 Rath, S.P. & Patnaik, S.N. 1975

Pycurus nitens Nees

- 54 Sanyal, B. 1972
94 Mehra, P.N. & Sachdeva, S.K. 1975a

Pycurus pumilus (Linn.) Domin

- 90 Rath, S.P. & Patnaik, S.N. 1978a
94 Sharma, B.R. 1962

rotundus Linn.

- 16 Hsu, C.-C. 1967
26 Sarkar, A.K., Chakraverty, M. *et al.* 1977
84 Rath, S.P. *et al.* 1973
96 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a
108 Tanaka, N. 1948 (Jinno, T. 1956b) ; Heiser, C.B. & Whitaker, T.W. 1948 ; Sanyal, B. 1972
152 Rath, S.P. & Patnaik, S.N. 1975, 1978a

sanguinolentus Vahl

- 48 Tanaka, N. 1937
50 Rath, S.P. *et al.* 1973 ; Mehra, P.N. & Sachdeva, S.K. 1975b, 1976f

Pycurus sanguinolentus Nees ex Clarke

- 48, 50 Mehra, P. N. & Sachdeva, S.K. 1975a
50 Sharma, B.R. 1962; Nijalingappa,
B.H.M., *et al.* 1978

vesquiflorus (Torrey) Kük.

ssp. *cylindricus* (Nees) Koyama
Kyllinga cylindrica Nees

- 112 Sharma, B.R. 1962

squarrosus Linn.

aristatus Rottb.

- c.94 Rath, S.P. *et al.* 1973

Mariscus squarrosus (Linn.) Clarke

- c.94 Rath, S.P. & Patnaik, S.N. 1978a
108 Nijalingappa, B.H.M. *et al.* 1978

substramineus Kük.

- 42 Rath, S.P. & Patnaik, S.N. 1974b

stramineus Nees

- 42 Rath, S.P. & Patnaik, S.N. 1972;
Rath, S.P. *et al.* 1973

tenuispica Steud.

- 16 Rath, S.P. *et al.* 1973; Rath, S.P. &
Patnaik, S.N. 1974b; Nijalingappa,
B.H.M. *et al.* 1978

thomsoni Boeck.

- 56 Rath, S.P. *et al.* 1973

triceps (Rottb.) Endl.

Kyllinga triceps Rottb.

- 96 Mehra, P.N. & Sachdeva, S.K. 1971,
1975a
c.124 Rath, S.P. & Patnaik, S.N. 1978a, b

Eleocharis R. Br.

200; cosmopolitan. 15; chiefly in
Eastern and Southern India, a few in Hima-
laya, and Nepal, Pakistan, Bangla Desh and
Sri Lanka.

acicularis (Linn.) Roem. & Schult.

- 20 Tanaka, N. 1937, 1948; Löve, A. &
Löve, D. 1956b; Jørgensen, C.A. *et*
al. 1958; Harms, L.J. 1964; Ubrí-
ková, A. & Feráková, V. 1978
56, (36-38,
50-56) Hicks, G.C. 1929
c.56 Tischler, G. 1934; Rohweder, H.
1937

neutangula (Roxb.) Schult.

- 54 Rath, S.P. & Patnaik, S.N. 1978a, b

fistulosa Schult.

- 54 Patnaik, S.N. & Guru, K.M. 1968;
Nijalingappa, B.H.M. 1972, 1973c;
Sanyal, B. & Sharma, A. 1972

atropurpurea (Retz.) Kunth

- 10, 20 Sanyal, B. & Sharma, A. 1972
20 Harms, L.J. 1964; Nijalingappa,
B.H.M. 1972; Rath, S.P. & Patnaik,
S.N. 1975, 1978a
20, 21 Nijalingappa, B.H.M. 1973c

congesta D. Don

- 20 Nijalingappa, B.H.M. 1972, 1973c;
Sanyal, B. & Sharma, A. 1972

afflata Steud.

- 20 Sanyal, B. & Sharma, A. 1972

dulcis (Burm. f.) Trin. ex Hensch.

- 76 Rath, S.P. & Patnaik, S.N. 1978a
> 200 Rath, S.P. & Patnaik, S.N. 1974b

equisetina Presl

- c.172 Briggs, B.G. 1970

geniculata (Linn.) Roem. & Schult.

- 10 Nijalingappa, B.H.M. 1972, 1973c
30 Rath, S.P. & Patnaik, S.N. 1978a, b

capitata R. Br.

- 10 Tuspule, S.H. 1966
20 Sharma, A. & Sarkar, A.K. 1967-
1968; Sanyal, B. & Sharma, A. 1972
38 Hicks, G.C. 1929

ovata R. Br.

- 10 Sanyal, B. & Sharma, A. 1972;
Hiner, D.M. 1973

palustris (Linn.) R. Br.

- 10, 16 Avdulov, N.P. (Fedorov)
10, 16, 18 Rohweder, H. 1937
10, 16, 18,
36, 38 Tischler, G. 1934
14, 16 Mehra, P.N. & Sachdeva, S.K. 1975a
15 Strandhede, S.-O. 1965a
16 Strandhede, S.-O. 1965b; Hicks, G.C.
1929; Lewitsky, G.A. 1940; Pólya,
L. 1948; Jørgensen, C.A. *et al.*
1958, Lewis, K.R. & John, B. 1961;
Löve, A. & Löve, D. 1961b; Löve, A.
& Ritchie, J.C. 1966; Kuzmanov, B.

- & Kožuharov, S. 1969; Thiebaud, M.-A. 1970; Skalińska, M. & Pogan, E. 1971; Sanyal, B. & Sharma, A. 1972
- 16, 17 Strandhede, S.-O. 1965
- 16, 38 Håkansson, A. 1958; Strandhede, S.-O. 1960
- 16, 38, 39 Strandhede, S.-O. 1961
- 16, 38-42 Strandhede, S.-O. 1958
- 16, 38-40, 42, 44, 46-49, 51 Saunte, L.H. 1958
- c.36 Hedberg, O. 1967
- 38 Walters, S.M. 1949, 1953; Löve, A. 1951a; Håkansson, A. 1954; Löve, A. & Löve, D. 1956b
- 40 Davies, E.W. 1956a
- 50 Tarnavski, I.T. 1948

plantaginoides (Rottb.) Donin*plantaginea* R. Br.

- >200 Rath, S.P. & Patnaik, S.N. 1972
- 216 Patnaik, S.N. & Guru, K.M. 1968

quaqueflora (Hartm.) O. Schw.*Scirpus pauciflorus* Lightf.

- 46+0-3B Mehra, P.N. & Sachdeva, S.K. 1975b, 1976f
- c.100 Knaben, G. 1950

retroflexa (Poir.) Urbanesp. *chaetaria* (Roem. & Schult.) Koyama*chaetaria* Roem. & Schult.

- 10 Rath, S.P. & Patnaik, S.N. 1974b

Eriophorum Linn.

20; North temperate and arctic, 1 in South Africa. 3; temperate and alpine Himalaya (up to 5,300 m), and Nepal, Bhutan and Pakistan.

comosum Wall.

- 52 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a

schenckzeri Hoppe

- 58 Flovik, K. 1943; Sørensen & Westergaard (Löve, A. & Löve, D. 1948); Holmen, K. 1952; Löve, A. & Löve, D. 1956b; Jørgensen, C.A. *et al.* 1958; Löve, A. & Ritchie, J.C. 1966; Johnson, A. W. & Packer, J.G. 1968; Zhukova, P.G. 1968; Zhukova, P.G. & Tikhonova, A.D. 1973; Laine, U. *et al.* 1974; Dawe, J.C. & Murray, D.F. 1979

58, 58+

- 2b Mosquin, T. & Hayley, D.E. 1966

Pimbristylis Vahl

300; tropics and subtropics, abundant in Indo-Malesia and Australia. Over 55; mostly in the plains of Eastern, Central and Southern India, some occur throughout India, and Nepal, Pakistan, Bangla Desh and Sri Lanka.

aeicularis R. Br.*setacea* Benth.

- 10 Rath, S.P. & Patnaik, S.N. 1972, 1974b

acuminata Vahl

- 10 Nijalingappa, B.H.M. 1972, 1975a; Rath, S.P. & Patnaik, S.N. 1972, 1974b

aestivalis Vahl

- 10 Tanaka, N. 1939d; Sharma, A.K. & Bai, A.K. 1954, 1956b; Chuang, T.I. *et al.* 1963; Rath, S.P. & Patnaik, S.N. 1972, 1974b; Sanyal, B. & Sharma, A. 1972; Nijalingappa, B.H.M. 1975a

argentea Vahl

- 20 Nijalingappa, B.H.M. 1972, 1975a; Rath, S.P. & Patnaik, S.N. 1974b, 1978b

laumbellata (Forsk.) Bub.

- 10 Nijalingappa, B.H.M. 1972, 1975a

cinnamometorum (Vahl) Kunth

- 10 Nijalingappa, B.H.M. 1972, 1975a; Rath, S.P. & Patnaik, S.N. 1978a

complanata (Retz.) Link

- 10 Sharma, B.R. 1962; Kral, R. 1971; Nijalingappa, B.H.M. 1972, 1975a; Rath, S.P. & Patnaik, S.N. 1972, 1974b
- 16 Tanaka, N. 1939d
- 20 Sachdeva, S.K. 1977; Rath, S.P. & Patnaik, S.N. 1978a; Mehra, P.N. & Sachdeva, S.K. 1979

cymosa R. Br.

- 10 Rath, S.P. & Patnaik, S.N. 1978b
- 28, 48 Skottsberg, C. 1955

spathocca Roth

- 10 Rath, S.P. & Patnaik, S.N. 1974b
48 Kral, R. 1971 ; Nijalingappa, B.H.M. 1972, 1975a

cyperoides R. Br.

- 10 Rath, S.P. & Patnaik, S.N. 1975

diebotoma (Linn.) Vahl

- 10 Sharma, A.K. & Bal, A.K. 1954, 1956b ; Sharma, B.R. 1962 ; Murin, A. & Chaudhri, J.I. 1970
10, 20 Mehra, P.N. & Sachdeva, S.K. 1975a, 1979 ; Sachdeva, S.K. 1977
12 Hsu, C.-C. 1967, 1972
20 Mehra, P.N. & Sachdeva, S.K. 1971, 1975b, 1976f ; Nijalingappa, B.H.M. 1972, 1973a ; Rath, S.P. & Patnaik, S.N. 1972, 1974b ; Sanyal, B. & Sharma, A. 1972 ; Baquar, S.R. 1978
30 Kral, R. 1971

annua Roem. & Schult.

- 20 Tanaka, N. 1939d
30 Kral, R. 1971

diphylla Vahl

- 10 Rath, S.P. & Patnaik, S.N. 1972, 1974b ; Mehra, P.N. & Sachdeva, S.K. 1975a
10, 20 Sachdeva, S.K. 1977 ; Mehra, P.N. & Sachdeva, S.K. 1979
20 Sharma, A.K. & Bal, A.K. 1954, 1956b ; Sanyal, B. & Sharma, A. 1972 ; Sarkar, A.K., Chakraverty, M. *et al.* 1978

var. *annua* Roem. & Schult.

- 20 Sanyal, B. & Sharma, A. 1972

disseca Benth.*

- 10 Sanyal, B. & Sharma, A. 1972

falcatu (Vahl) Kunth

- 44 Nijalingappa, B.H.M. 1975c, 1977a

junciformis Kunth

- 22 Sharma, A. & Sarkar, A.K. 1967-1968 ; Sanyal, B. & Sharma, A. 1972 ; Mehra, P.N. & Sachdeva, S.K. 1975b, 1976f

ferruginea Vahl

- 10 Sharma, A. & Sarkar, A.K. 1967-1968 ; Nijalingappa, B.H.M. 1972, 1975a ; Sanyal, B. & Sharma, A. 1972 ; Mehra, P.N. & Sachdeva, S.K. 1975b, 1976f ; Rath, S.P. & Patnaik, S.N. 1978a, b
20 Sarkar, A.K., Chakraverty, M. *et al.* 1978

globulosa Kunth

- 10 Rath, S.P. & Patnaik, S.N. 1972

umbellaris (Lam.) Vahl

- 6 Rath, S.P. 1977 ; Rath, S.P. & Patnaik, S.N. 1977, 1978a, b

hookeriana Boeck.

- 20 Rath, S.P. & Patnaik, S.N. 1975

millacea (Linn.) Vahl

- 10 Tanaka, N. 1939d ; Chuang, T.I. *et al.* 1963 ; Gadella, T.W.J. & Kliphuis, E. 1964 ; Kral, R. 1971 ; Nijalingappa, B.H.M. 1972 ; Rath, S.P. & Patnaik, S.N. 1972, 1974b ; Sanyal, B. & Sharma, A. 1972 ; Mehra, P.N. & Sachdeva, S.K. 1975a

littoralis Gaud.

- 10 Nijalingappa, B.H.M. 1975a

monospicula Govindar.

- 10 Nijalingappa, B.H.M. 1975c

ovata (Burm. f.) Kern

- 10 Nijalingappa, B.H.M. 1972 ; Rath, S.P. & Patnaik, S.N. 1974b
10, 20 Nijalingappa, B.H.M. 1975b

monostachya Hassk.

- 10 Rath, S.P. & Patnaik, S.N. 1972
20 Sharma, A.K. & Bal, A.K. 1954, 1956b ; Nijalingappa, B.H.M. 1972 ; Sanyal, B. & Sharma, A. 1972

paupercola Boeck.

- 44 Nijalingappa, B.H.M. 1972, 1974b

pluristriata Rath & Patnaik

- 30 Rath, S.P. & Patnaik, S.N. 1978a, b

*The combination *Fimbristylis disseca* should be attributed to Clarke (FHD : 676).

- diphylla* var. *pluristriata* Clarke
20 Sanyal, B. & Sharma, A. 1972
- podocarpa* Nees ex Meyen
20 Rath, S.P. & Patnaik, S.N. 1974a
30 Sanyal, B. & Sharma, A. 1972; Rath, S.P. & Patnaik, S.N. 1975
- polytrichoides* Vahl
20 Sanyal, B. & Sharma, A. 1972
- var. *halophila* Kurz
20 Sanyal, B. & Sharma, A. 1972
- quinquangularis* (Vahl) Kunth
10 Dnyansagar, V.R. & Tiwari, D.K. 1956; Nijalingappa, B.H.M. 1972, 1975a; Rath, S.P. & Patnaik, S.N. 1972, 1974b
20 Sanyal, B. & Sharma, A. 1972
- schoenoides* (Retz.) Vahl
10 Kral, R. 1971; Nijalingappa, B.H.M. 1972, 1975a; Rath, S.P. & Patnaik, S.N. 1972, 1974b; Sanyal, B. & Sharma, A. 1972; Mehra, P.N. & Sachdeva, S.K. 1975b, 1976f
- sericea* R. Br.
44 Tanaka, N. 1939d
- squamroea* Vahl
10 Rath, S.P. & Patnaik, S.N. 1972
20 Tanaka, N. 1939d; Mehra, P.N. & Sachdeva, S.K. 1971, 1975a
24 Sanyal, B. & Sharma, A. 1972
- sub-bispicata* Nees & Meyen
10 Tanaka, N. 1939d; Rath, S.P. & Patnaik, S.N. 1974b, 1978b
- tenara* Roem. & Schult.
40 Mehra, P.N. & Sachdeva, S.K. 1975b, 1976f; Nijalingappa, B.H.M. 1975c; Rath, S.P. & Patnaik, S.N. 1978a, b
- tetragona* R. Br.
10 Nijalingappa, B.H.M. 1972, 1975a; Sanyal, B. & Sharma, A. 1972; Rath, S.P. & Patnaik, S.N. 1974b
20 Rath, S.P. & Patnaik, S.N. 1972
- tristachya* Thwaites
10 Rath, S.P. & Patnaik, S.N. 1972
- woodrowii* Clarke
6 Ramakrishna, S. & Ramachandran, K. 1976
- sp.
10 Rath, S.P. & Patnaik, S.N. 1972
- Fuirena* Rottb.
40; tropics and subtropics. 6; North Western India, Deccan Peninsula, a few throughout India, and Sri Lanka.
- clivata* (Linn.) Roxb.
38 Rath, S.P. & Patnaik, S.N. 1974a, 1975, 1978a; Nijalingappa, B.H.M. 1975c
- trilobites* Clarke
38 Nijalingappa, B.H.M. 1972, 1977b
- umbellata* Rottb.
48 Baquar, S.R. 1978
52 Rath, S.P. & Patnaik, S.N. 1974a, 1975, 1978a
- uschnata* (Willd.) Kunth
36 Nijalingappa, B.H.M. 1972, 1977b; Rath, S.P. & Patnaik, S.N. 1974a, 1975, 1978a
- wallichiana* Kunth
38 Nijalingappa, B.H.M. 1972
- Kobresia* Willd.
50; North temperate. 21; Himalaya, and Nepal and Bhutan.
- royleana* Boeck.
80 Mehra, P.N. & Sachdeva, S.K. 1975b, 1976f
- schoenoides* (C.A. Mey.) Steud.
32 Poghosfan, A.J. *et al.* 1971
- Lipocarpa* R. Br.
12; tropical America, Africa and Asia. 2; Himalaya (up to 1,320 m), 1 throughout India, and Nepal and Sri Lanka.
- chinensis* (Osbeck) Kern
26 Rath, S.P. & Patnaik, S.N. 1974b; Nijalingappa, B.H.M. *et al.* 1978
- argentea* R. Br.
26 Sharma, A. & Sarkar, A.K. 1967-1968; Sanyal, B. & Sharma, A. 1972
32 Rath, S.P. & Patnaik, S.N. 1972

sphaecelata (Vahl) Kunth

- 38 Nijalingappa, B.H.M. *et al.* 1978 ;
Rath, S.P. & Patnaik, S.N. 1978a, b

Queenlandiella Domin

1 ; tropical East Africa, Madagascar, Mauritius, Southern India, Sri Lanka, Borneo, Java, Timor and Queensland.

hyalinus (Vahl) Ballard

- 112 Nijalingappa, B.H.M. *et al.* 1978

Rhynchospora Vahl *corr.* Willd.

200 ; cosmopolitan, especially tropics. 9 ; chiefly in North Eastern India, a few throughout India, and Nepal and Sri Lanka.

corymbosa (Linn.) Britt.

- 18 Baquar, S.R. 1978 ; Nijalingappa, B.H.M. *et al.* 1978

wightiana (Nees) Steud.

- 20 Rath, S.P. & Patnaik, S.N. 1978a, b

Rikiella J. Raynal

3 ; Asia, Africa and Madagascar. 2 ; Eastern Peninsula ; North Western and Southern India, and Sri Lanka.

squarrosa (Linn.) J. Raynal

Scirpus squarrosus Linn.

- 40 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a ; Sanyal, B. & Sharma, A. 1972 ; Rath, S.P. & Patnaik, S.N. 1975, 1978a

Schoenus Linn.

100 ; especially in South Africa, Australia, New Zealand, a few from Europe to Central Asia, Malaysia and America. 1 ; Punjab, and Pakistan.

nigricans Linn.

- 44 Davies, E.W. 1956a, b ; Labadie, J.P. 1976 ; Natarajan, G. 1978

- 54 Rodrigues, J.E. de M. 1953 ; Mori, M. 1957

Scirpus Linn.

360 ; cosmopolitan. 24 ; chiefly in Himalaya (up to 5,280 m), Eastern and Southern India, and Pakistan and Sri Lanka.

articulatus Lind.

- 30 Rath, S.P. & Patnaik, S.N. 1972, 1974b
32 Sharma, A.K. & Bal, A.K. 1954, 1956b ; Sharma, A. & Sarkar, A.K. 1967-1968 ; Sanyal, B. & Sharma, A. 1972

erectus Poir.

- 74 Mehra, P.N. & Sachdeva, S.K. 1971, 1975a ; Rath, S.P. & Patnaik, S.N. 1975, 1978a

fluitans Linn.

- 60 Scheerer, H. 1940 ; Schotsman, H.D. 1970

groenii Linn.

- c.88 Rath, S.P. & Patnaik, S.N. 1978a, b

holoschoenus Linn.

- c.42 Bhattacharya, S.S. *et al.* 1971

Holoschoenus vulgaris Link

- c.164 Fahmy, T.Y. 1951

isolepis Boeck.

- 30 Sanyal, B. & Sharma, A. 1972

Jacobi Fisch.

- 28 Nijalingappa, B.H.M. 1972, 1974a

jmenoides Roxb.

- 76 Nijalingappa, B.H.M. 1972 1974a

lucustris Linn.

- 38 Tanaka, N. 1937, 1940
38, 40, 42 Tanaka, N. 1938, 1939a
42 Håkansson, A. 1928 ; Kostrioukoff, X. (Fedorov) ; Reese, G. 1957 ; Otzen, D. 1962 ; Sorsa, V. 1963b ; Mehra, P.N. & Sachdeva, S.K. 1975a
80 Sharma, A. & Sarkar, A.K. 1967-1968 ; Sanyal, B. & Sharma, A. 1972

var. *tabernaemontani* (Gmel.) Doell.
tabernaemontani Gmel.

- 42 Håkansson, A. 1928 ; Otzen, D. 1962
44 Wulff, H.D. 1938
76-77 Tarnavachi, I.T. 1948

lateriflorus Gmel.

- 30 Nijalingappa, B.H.M. 1972, 1974a

litoralis Schrad.

- 10 Sarkar, A.K. *et al.* 1976

Schoenoplectus litoralis (Schrad.) Palla

- 80 Nijalingappa, B.H.M. *et al.* 1978

maritimus Linn.*

- 40 Labadie, J.P. 1976
76-77 Tarnavachi, I.T. 1948
80 Rodrigues, J.E. de M. 1953
c.86, 104 Tischler, G. 1934
86, 104 Rohweder, H. 1937
96, 110 Sharma, B.R. 1962
c.104 Tischler, G. 1937
104 Håkansson, A. 1928 ; Löve, A. 1954b
110 Tanaka, N. 1937 ; Mehra, P.N. & Sachdeva, S.K. 1975a

microcatus Linn.

- 42 Morinaga, T. & Fukushima, E. 1931a ; Tanaka, N. 1937, 1948 (Tischler, G. 1950) ; Sanyal, B. & Sharma, A. 1972 ; Mehra, P.N. & Sachdeva, S.K. 1975a

plumifolius Griseb.

compressus (Linn.) Pers.

- 44 Håkansson, A. 1928 ; Tischler, G.

1934 ; Rohweder, H. 1937 ; Mehra, P.N. & Sachdeva, S.K. 1975a

pumilus Vahl

- 77±1, 78 Engelskjön, T. & Knaben, G. 1971
78 Knaben, G. 1969

setaceus Linn.

- 26 Håkansson, A. 1928
28 Scheerer, H. 1940 ; Mehra, P.N. & Sachdeva, S.K. 1975a
c.56 Hedberg, I. & Hedberg, O. 1977

Isolepis setacea (Linn.) R.Br.

- 26 Davies, E.W. 1956a, b
28 Reese (Löve, A. & Löve, D. 1961b)

supinus Linn.

- 28 Sharma, A.K. & Bal, A.K. 1954, 1956b ; Sharma, B.R. 1962 ; Nijalingappa, B.H.M. 1972, 1974a ; Rath, S.P. & Patnaik, S.N. 1972, 1974b ; Sanyal, B. & Sharma, A. 1972

triqueter Linn

- 40 Tanaka, N. 1942a ; Tanaka, N. 1948 (Tischler, 1950)
42 Otzen, D. 1962

Scleria Berg.

200 ; tropics and subtropics. 23 ; chiefly in Eastern India, and Nepal, Bangla Desh and Sri Lanka.

temelata Willd.

- 28 Tanaka, N. 1941

DIOSCOREACEAE R. Br.

5/750 ; tropics and warm temperate. 1/51 ; chiefly in tropical Himalaya, and Nepal, Bhutan, Bangla Desh and Sri Lanka.

* *Scirpus maritimus* sensu Clarke, FBI 6 : 658, non Linn., is a synonym of *S. tabernaemontani* Desf.

Dioscorea Linn.

600 ; tropics and subtropics, 51 : chiefly in tropical Himalaya, and Nepal, Bhutan, Bangla Desh and Sri Lanka.

alata Linn.

- 20, 30, 40,
50, 60, 70,
80, 81 Martin, F.W. & Ortiz, S. 1963
20, 50 Sharma, A.K. & Sharma, A. 1957
30, 38, 40,
50, 52, 55,
66, 70 Sharma, A.K. & De, D. 1955
30, 40 Ghosh, I. & Sharma, A.K. 1969
30, 40, 50,
70 Sharma, A.K. & De, D.N. 1956a
40 Miège, J. 1954 ; Simmonds, N.W.
1954 ; Sarkar, A.K., Chakraverty, M.
et al. 1980
40, 45, 60,
80 Bhaumik, G. 1971
40, 60 Ramachandran, K. 1968
40, 60, 80 Ramachandran, K. 1962
60, 90 Raghavan, R.S. 1958a
c.81 Smith, B.W. 1937

var. *alata*

- 60 Ghosh, I. & Sharma, A.K. 1969

var. *purpurea*

- 80 Ramachandran, K. 1968

var. *rubella*

- 70 Ghosh, I. & Sharma, A.K. 1969

belophylla Voigt

- 60 Sharma, A. & Sarkar, A.K. 1967-
1968 ; Ghosh, I. & Sharma, A.K.
1969
80 Raghavan, R.S. 1958a, 1959a ;
Martin, F.W. & Ortiz, S. 1963

bulbifera Linn.

- 36, 40, 54,
60 Miège, J. 1954
36, 40, 54,
60, 80, 98-
100 Martin, F.W. & Ortiz, S. 1963
40 Ghosh, I. & Sharma, A.K. 1969
40, c.98-
100 Raghavan, R.S. 1958a
40, 80, 100 Raghavan, R.S. 1959a
60, 70 Bhaumik, G. 1971
80 Smith, B.W. 1937
80, 100 Ramachandran, K. 1962, 1968

deltoides Wall.

- 20 Janaki Ammal, E.K. & Singh, S.D.
1962 ; Mehra, P.N. & Sachdeva, S.K.
1976c ; Bhat, B.K. & Bindroo, B.B.
1980
40 Raghavan, R.S. 1958a ; Martin, F.W.
& Ortiz, S. 1963

esculenta Burkill

- 40 Miège, J. 1954
40, 60, 90,
100 Martin, F.W. & Ortiz, S. 1963
80 Ghosh, I. & Sharma, A.K. 1969
90 Ramachandran, K. 1962
90, c.100 Raghavan, R.S. 1958a, 1959a
90, 100 Ramachandran, K. 1968

spinosa Roxb.

- 90 Ramachandran, K. 1962, 1968

glabra Roxb.

- 40 Mehra, P.N. & Sachdeva, S.K. 1976c

lispida Dennst.

- 40 Raghavan, R.S. 1958a, 1959a ;
Ramachandran, K. 1962, 1968 ;
Martin, F.W. & Ortiz, S. 1963
80 Ghosh, I. & Sharma, A.K. 1969

japonica Thunb.

- 40 Nakajima, G. 1933, 1942 ; Martin,
F.W. & Ortiz, S. 1963

kalhapershadii Prain & Burkill

- 80 Ghosh, I. & Sharma, A.K. 1969

oppositifolia Linn.

- 40 Raghavan, R.S. 1958a, 1959a ;
Ramachandran, K. 1962, 1968 ; Ghosh,
I. & Sharma, A.K. 1969
40, 140 Martin, F.W. & Ortiz, S. 1963
c.144 Smith, B.W. 1937

var. *lanata*

- 40 Ramachandran, K. 1968

pentaphylla Linn.

- 36, 45, 70,
80 Bhaumik, G. 1971
40, 80 Raghavan, R.S. 1958a, 1959a ;
Ramachandran, K. 1962
80 Ghosh, I. & Sharma, A.K. 1969
80, 144 Martin, F.W. & Ortiz, S. 1963
c.144 Smith, B.W. 1937

var. *hancei*

- 40 Ramachandran, K. 1968

512 DIOSCOREACEAE

- var. *rheedei* 40 Ramachandran, K. 1968
- prazeri* Prain & Burkill 20 Sharma, A. & Sarkar, A.K. 1967-1968; Ghosh, I. & Sharma, A.K. 1969
- pubera* Blume 40 Raghavan, R.S. 1958a, 1959a; Martin, F.W. & Ortiz, S. 1963
- rativa* Linn. 40 Sharma, A.K. & De, D.N. 1955, 1956a
- 40, 60 Martin, F.W. & Ortiz, S. 1963
60 Nakajima, G. 1936
80 Ramachandran, K. 1962, 1968; Mehra, P.N. & Sachdeva, S.K. 1976c
- tomentosa* Koen. 40 Ramachandran, K. 1962, 1968
40, 60 Raghavan, R.S. 1959a; Martin, F.W. & Ortiz, S. 1963
- wallichii* Hook. f. 40 Raghavan, R.S. 1959a; Ramachandran, K. 1962, 1968; Martin, F.W. & Ortiz, S. 1963

ERIOCAULACEAE Desv.

13/1,150; chiefly in tropics and subtropics, abundant in South America. 1/60; chiefly in Southern and Western India, and Eastern Himalaya, and Nepal, Bangla Desh and Sri Lanka.

Eriocaulon Linn.

400; tropics and subtropics, with 30 in Japan and 8 in North America. 60; chiefly in Southern and Western India, and Eastern Himalaya (up to 3,960 m), and Nepal, Bangla Desh and Sri Lanka.

clavatum R. Br.

32 Erlandsson, S. 1942a

stebaldianum Sieb. & Zucc.

18 Mehra, P.N. & Sachdeva, S.K. 1971, 1976c

sexangulare Linn.

36 Erlandsson, S. 1942a

truncatum Ham.

32 Erlandsson, S. 1942a

FLAGELLARIACEAE Dum.

1/3; tropical Africa, Asia and Pacific. 1/1; coastal regions of India, Madhya Pradesh, and Bangla Desh and Sri Lanka.

Flagellaria Linn.

3; tropical Africa, Formosa, Indo-Malesia, Australia and Pacific. 1; coastal regions of India, Madhya Pradesh, and

Bangla Desh and Sri Lanka.

indica Linn.

38 Chuang, T.I. *et al.* 1963; Shetty, B.V. & Subramanyam, K. 1964; Briggs, B.G. 1966; Hsu, C.-C. 1972

HYDROCHARITACEAE Juss.

16/80 ; tropical and temperate regions. 8/17 ; widely distributed in India, and Bangla Desh and Sri Lanka.

Blyxa Noron. ex Thou.

10 ; tropical Africa, Madagascar to tropical Australia. 8 ; chiefly in West Bengal, and Bangla Desh and Sri Lanka.

auberti Rich.

- 12, 24 Ghosh, D.K. & Bhattacharya, G.N. 1981a
16 Sarkar, A.K., Mallick, R. *et al.* 1977

octandra (Roxb.) Planch.

- 16 Subramanyam, K. & Kamnathy, R.V. 1967
18 Larsen, K. 1963b

sp.

- 16 Rao, Y.S. 1950b

Euhalis Rich.

1 ; Indo-Malesia and Australia. Southern India and South Andamans, and Sri Lanka.

acerooides Rich. ex Steud.

- 14 Janaki Ammal, E.K. (D. 1945)

Halophila Thou.

4 ; tropical coasts of India, Pacific oceans and Caribbean. 1 ; East coastal regions of India and Andaman Islands, and Sri Lanka.

ovalis Hook. f.**ovata** Gaud.

- 18 Harada, I. 1951, 1956

Hydrilla Rich.

1 ; Eurasia, Africa to Australia. Throughout India, and Sri Lanka.

verticillata (Linn. f.) Royle

- 16 Rao, Y.S. 1950b ; Larsen, K. 1963b ; Czapik, R. 1978 ; Mehra, P.N. & Pandita, T.K. 1978
16, 24 Chaudhuri, I.B. & Sharma, A. 1978
♂ 16, ♀ 24 Sinotô, Y. 1929b
24 Sinotô, Y. & Kiyohara, K. 1928 ; Harada, I. 1956 ; Sharma, A.K. & Bhattacharyya, B. 1956 ; Sarkar, A.K., Datta, N. & Chatterjee, U. 1973a, 1980
32 Davenport, L.J. 1980

Hydrocharis Linn.

6 ; Europe, Mediterranean, tropical Africa, Asia and temperate Australia. 1 ; West Bengal, North Bihar and North East regions of Uttar Pradesh and Kashmir.

dubin (Blume) Becker

- 16 Mehra, P.N. & Pandita, T.K. 1978
22 Sharma, A.K. & Chatterjee, T. 1967

asiatica Miq.

- 14 Sokolovskaya, A.P. (Fedorov)
16 Harada, I. 1956

Nechamandra Planch.

15 ; tropical and South Africa, Madagascar and India. 1 ; throughout India, and Sri Lanka.

altersifolia (Roxb.) Thwaites

- 16 Sharma, A.K. & Chatterjee, T. 1967 ; Shetty, B.V. & Subramanyam, K. 1971
c.100 Sarkar, A.K., Datta, N. & Chatterjee, U. 1980

Lagarosiphon roxburghii (Planch.) Benth.

- 100 Sharma, A.K. & Bhattacharyya, B. 1956

Ottelia Pers.

40 ; tropics and subtropics. 1 ; throughout India, and Sri Lanka.

altamoides (Linn.) Pers.

- 22, 33 Krishnappa, D.G. 1967, 1971
 22, 34, 44,
 60, 66, 88 Bhattacharya, G.N. & Ghosh, D.K. 1976b
 22, 44, 66 Rao, Y.S. 1951
 22, 44, 66,
 88 Bhattacharya, G.N. & Ghosh, D.K. 1976a, b
 22, 66 Rao, Y.S. 1950b
 44 Islam, A.S. 1950 ; Harada, I. 1956 ; Mitra, K. & Datta, N. 1967 ; Sarkar, A.K. *et al.* 1973a
 44, 66, 68
 (28, 38, 55,
 64
 variations) Chaudhuri, J.B. & Sharma, A. 1978
 44, 66, 68,
 110 Chaudhuri, J.B. 1972
 44, 66, c.
 132 Misra, M.P. 1974

52 Sharma, A.K. & Bhattacharyya, B. 1956

56, 60, 64.

66, 72 Chatterjee, N.K. *et al.* 1963

72 Murthy, S.K.N. 1934

Vallisneria Linn.

6-10 ; tropics and subtropics. 3 ; plains of Eastern India, 1 throughout India, and Sri Lanka.

gigantea Graebn.

40 Jørgensen, C.A. 1927b

spiralis Linn.

- 20 Jørgensen, C.A. 1927b ; Winge, O. 1927 ; Rao, Y.S. 1950b ; Harada, I. 1956
 20, 24, 30,
 40 Chaudhuri, J.B. 1972
 24, 30, 40 Chaudhuri, J.B. & Sharma, A. 1978
 30, 40 Sharma, A.K. & Bhattacharyya, B. 1956
 40 Sarkar, A.K. *et al.* 1973a ; Sarkar, A.K., Datta, N. & Chatterjee, U. 1980

HYPOXIDACEAE R. Br.

7/120 ; throughout the world except Europe and North Asia. 2-3/7 ; mostly in Himalaya and Western Ghats, and Nepal, Bangla Desh and Sri Lanka.

Carculigo Gaertn.

10 ; tropics. 6 ; Himalaya (up to 1,980 m), Bengal, Southern India, and Nepal, Bangla Desh and Sri Lanka.

capitulata (Lour.) O. Kuntze**recurvata Dryand. ex Ait.**

- 18 Inariyama, S. 1937 ; Satō, D. 1942 ; Tjio, J.H. 1948 ; Sharma, A. K. & Ghosh, C. 1954b ; Sharma, A.K. & Chaudhuri, M. 1964 ; Hsu, C.-C. 1967

crassifolia Hook. f.

- 18 Lakshmi, N. 1980

orchioides Gaertn.

- 18 Sheriff, A. 1946 ; Raghavan, R.S. 1957 ; Sharma, A.K. & Bhattacharyya, N.K. 1960 ; Shetty, B.V. 1961
 36 Sharma, A.K. & Ghosh, C. 1954b ; Sharma, A.K. & Chaudhuri, M. 1964
 c.50 Inariyama, S. 1937

Hypoxis Linn.

100 ; America, Africa, East Asia, Indo-Malesia and Australia. 1 ; throughout the hilly regions of India (up to 2,300 m).

surea Lour.

- 54 Mehra, P.N. & Sachdeva, S.K. 1971, 1976a

IRIDACEAE Juss.

60/800 : tropical and temperate regions, with chief centres in South Africa and tropical America. 7/19 ; native ones confined between 990 and 3,960 m in the Himalaya, 6 genera are found under cultivation in warmer parts.

Belamcanda Adans.

2 ; East Asia. 1 ; cultivated.

chiensis (Linn.) DC.

- 28, 32 Banerjee, M. & Sharma, A.K. 1971
 32 Nakajima, G. 1936 ; Sharma, A.K. & Talukdar, C. 1959b ; Kurosawa, S. 1966 ; Lee, Y.N. 1967 ; Banerjee, M. & Chaudhuri, M. 1971 ; Chimpamba, B.B. 1973b ; Sarkar, A.K. *et al.* 1973b
 32(16, 27) Sharma, A.K. & Talukdar, C. 1959a
 128 Hsu, C.-C. 1971

Cipura Aubl.

2 ; tropical America. 1 ; cultivated and naturalized.

paludosa Aubl.

- 12 Banerjee, M. & Sharma, A.K. 1971 ; Sharma, A.K. & Talukdar, C. 1960b
 12(13, 14) Sharma, A.K. & Talukdar, C. 1959a, b

Crocus Linn.

75 ; Europe and Mediterranean. 1 ; cultivated.

sativus Linn.

- 14 Mather, K. 1932
 14, 16 Brighton, C.A. *et al.* 1973
 16 Schotzman, H.D. 1967
 16, 40 Karasawa, K. 1940
 24 Himmelbaur, W. 1926 ; Morinaga, T. & Fukushima, E. 1931a ; Sugiura, T. 1931 ; Karasawa, K. 1933, 1943 ; Gates, R.R. & Pathak, G.N. 1938 ; Pathak, G.N. 1940b ; Mehra, P.N. & Pandita, T.K. 1979
 40 Karasawa, K. 1942

Freesia Klatt

20 ; South Africa. 1 ; cultivated.

refracta (Jacq.) Klatt

- 22 Taylor, W.R. 1926 ; LaCour (D. 1945) ; Goldblatt, P. 1971
 44 Brittingham, W.H. 1934

Gladiolus Linn.

300 ; Canaries, Maderia, Western and Central Europe, Mediterranean to South West and Central Asia, tropical Africa and South Africa. A few species and hybrids cultivated.

gandavensis van Houtte

- 60 Ernst-Scharzenbach, M. 1931 ; Hosono (Kihara, H. *et al.* 1931)
 64 Sugiura, T. 1931, 1936b

sp.

cv. **Golden Yellow**

- 70 Dhara, J. & Bhattacharyya, N.K. 1971

cv. **Pink Coloured**

- 72 Dhara, J. & Bhattacharyya, N.K. 1971

cv. **Red and Yellow Tinge**

- 90 Dhara, J. & Bhattacharyya, N.K. 1971

cv. **Stormy Weather**

- 64 Dhara, J. & Bhattacharyya, N.K. 1971

cv. **Tunias Blue**

- 60 Dhara, J. & Bhattacharyya, N.K. 1971

cv. **White Coloured**

- 80 Dhara, J. & Bhattacharyya, N.K. 1971

Iris Linn.

300 ; North temperate. 12 ; temperate and alpine Himalaya a few cultivated.

aitchisoni (Baker) Boiss.

34 Gustafsson, M. & Wendelbo, P. 1975

clarkii Baker

38 Kurosawa, S. 1966, 1971b

40 Simonet, M. 1934a

crocea Jacq. ex Foster

40 Mehra, P.N. & Pandita, T.K. 1978

aurca Lindl.

34 Mehra, P.N. & Sachdeva, S.K. 1976c

40 Simonet, M. 1928a, 1932b, 1934a ; Banerjee, M. & Sharma, A.K. 1971

duthiei Foster

22 Mehra, P.N. & Sachdeva, S.K. 1971, 1976c

ensata Thunb.

40 Longley, A.E. 1928 ; Sokolovskaya, A.P. (Fedorov) ; Banerjee, M. & Sharma, A.K. 1971 ; Mehra, P.N. & Sachdeva, S.K. 1971, 1976c ; Banerji, M. & Chaudhuri, M. 1972 ; Mehra, P.N. & Pandita, T.K. 1978

florentina Ker-Gawl.*

22, 44 Simonet, M. 1932b, 1934a

24 Miyake, K. 1905 ; Simonet, M. 1928b, 1929a

44 Randolph, L.F. 1947 (Randolph, L.F. & Mitra, J. 1956)

florentina Linn.

44 Banerjee, M. & Chaudhuri, M. 1971 ; Banerjee, M. & Sharma, A.K. 1971

48 Kazao, N. 1929

germanica Linn.

24 Popova, M.T. & Česčbmedjiev, I.V. 1975

24, 44 Simonet, M. 1934a

24, 36, 44,

48, 60 Simonet, M. 1929a (Löve, A. & Löve, D. 1961b)

34 Longley, A.E. 1928

36 Susnik, F. et al. 1972

44 Mitra, J. 1956 ; Sharma, A.K. & Talukdar, C. 1959a ; Lovka, M. et al. 1971 ; Banerji, M. & Chaudhuri, M. 1972

44, 62 Banerjee, M. & Sharma, A.K. 1971

48 Mehra, P.N. & Pandita, T.K. 1978

var. nepalensis Dykes

34 Banerjee, M. & Sharma, A.K. 1971

hookeriana Foster

24 Kurosawa, S. 1971b

kamaonensis Wall. ex D. Don

18, 22 Banerjee, M. & Sharma, A.K. 1971

22 Simonet, M. 1952 ; Kumar, V. & Chauhan, K.P.S.

22, 24 La Cour (D. 1955)

24 Malik, C.P. 1961b ; Mehra, P.N. & Sachdeva, S.K. 1976c ; Mehra, P.N. & Pandita, T.K. 1978

kashmeriana Baker

24 Simonet, M. 1932b, 1934a ; Randolph, L.F. & Mitra, J. 1956

24, 48 Mitra, J. 1956

28 Banerjee, M. & Sharma, A.K. 1971

44 Mehra, P.N. & Sachdeva, S.K. 1976c

48 Randolph, L.F. 1934 (Randolph, L.F. & Mitra, J. 1956)

missil Fost.

26 Simonet, M. 1932b, 1934a ; Chimp-hamba, B.M. 1973a

nepalensis D. Don

24 Sharma, A.K. & Talukdar, C. 1960a ; Malik, C.P. 1961b

28 Mehra, P.N. & Sachdeva, S.K. 1971, 1976c

34 Sharma, A. & Sarkar, A.K. 1967-1968

spuria Linn.

22 Westergaard, M. 1938 ; Lenz, L.W. 1963 ; Lenz, L.W. & Day, A. 1963

40 Sharma, A. & Sarkar, A.K. 1967-1968 ; Banerjee, M. & Chaudhuri, M. 1971 ; Banerjee, M. & Sharma, A.K. 1971 ; Mehra, P.N. & Sachdeva, S.K. 1976c

*The combination *Iris florentina* should be attributed to Linn.

var. *kashmiriana* Hort.

44 Simonet, M. 1932b

var. *notha* Baker

44 Banerjee, M. & Sharma, A.K. 1971

notha Bieb.

38 Zakharyeva, O.I. & Makushenko, L.M. 1969

wattii Baker ex Hook. f.

30 Simonet, M. 1934a; Lenz, L.W. 1959; Chimpamba, B.B. 1973a

sp.

32 Kurosawa, S. 1971b

Neomarica Sprag.

15; tropical America. 3; cultivated.

caerulea (Ker-Gawl.) Sprag.

Marica caerulea Ker-Gawl.

44 Sharma, A.K. & Talukdar, C. 1960a

gracilis (Herb. ex Hook.) Sprag.

Marica gracilis Herb.

24 Sharma, A.K. & Talukdar, C. 1960a

northiana (Schneev.) Sprag.

14 Matsuura, H. & Sutö, T. 1935

Tigridia Juss.

12; Mexico to Chile. 1; cultivated.

pavonia (Linn. f.) DC.

26 Brittingham, W.H. 1934; Sakai, B. 1952; Sharma, A.K. & Sharma, A. 1961c

Tritonia Ker-Gawl.

55; tropics and South Africa. 1; cultivated.

pottsii Baker

22 Nakajima, G. 1936; Mehra, P.N. & Sachdeva, S.K. 1971, 1976c

Watsonia Mill.

60-70; South Africa and Madagascar. 6; cultivated.

alpina Lewis

18 Goldblatt, P. 1971

arderni Sand.

16, 16+2B Riley, H.P. 1962

18 Goldblatt, P. 1971

meriana (Linn.) Mill.

18 Goldblatt, P. 1971

JUNACEAE Juss.

9/400; temperate and arctic regions and tropical mountains. 2/34; almost all confined to temperate and alpine Himalaya, and Nepal, Pakistan, Bhutan and Sri Lanka.

Juncus Linn.

300; cosmopolitan. 30; temperate and alpine Himalaya (up to 5,940 m), 1 descends to the plains of Northern India, and Nepal. Pakistan, Bhutan and Sri Lanka.

befoenus Linn.

27-37, 58-

78, 81-115 Van Loenhoud, P.J. & Sterk, A.A. 1976

30 Ternavski, J.T. 1948

c.30 Hedberg, I. & Hedberg, O. 1964

34 Taylor, R.L. & Mulligan, G.A. 1968

c.54 Hamel-Ahti, L. & Virrankoski, V. 1970

c.60 Rohweder, H. 1937; Delay, C. 1947

- 80 Jørgensen, C.A. *et al.* 1958
 106 Löve, A. *et al.* 1980
 c.120 Löve, A. & Löve, D. 1948
 120 Löve, A. & Löve, D. 1956b
- compressus** Jacq.
 40 Holmen (Löve, A. & Löve, D. 1961b)
 44 Snogerup, S. 1963
- effusus** Linn.
 5 Sharma, A. & Sarkar, A.K. 1967-1968
 40 Sasaki, M. 1937; Löve, A. & Löve, D. 1944a
 c.40 Sorsa, V. 1962
 42 Snogerup, S. 1963
- var. effusus**
 40 Harriman, N.A. 1979
- inflexus** Linn.
 40 Löve, A. & Löve, D. 1948; Snogerup, S. 1963; Sharma, M.L. & Mehra, P.N. 1977
 80 Mehra, P.N. & Sachdeva, S.K. 1976c
- glauca** Ehrh.
 40 Rohweder, H. 1937; Wulff, H.D. 1937b
- lampocarpus** Ehrh.
 c.60 Wulff, H.D. 1938
 80 Mehra, P.N. & Sachdeva, S.K. 1976c
- articulatus** Linn.
 80 Timm, E.W. & Clapham, A.R. 1940; Löve, A. & Löve, D. 1956b; Snogerup, S. 1960; Taylor, R.L. & Mulligan, G.A. 1968; Bhat, B.K. *et al.* 1975; Sharma, M.L. & Mehra, P.N. 1977
- maritimus** Lam.
 40 Wulff, H.D. 1937a; Löve, A. & Löve, D. 1948; Bhattacharya, S.S. *et al.* 1971; Labadie, J.P. 1976
 40, 48 Tarnavachi, I.T. 1948
 48 Snogerup, S. 1963
- membranaceus** Royle
 120 Mehra, P.N. & Sachdeva, S.K. 1971, 1976c
- prismatocarpus** R. Br.
 44, 76 Sharma, A. & Sarkar, A.K. 1967-1968
- tensis** Willd.
 32 Sasaki, M. 1937
 40 Taylor, R.L. & Mulligan, G.A. 1968
 80 Harriman, N.A. 1979
- triglumis** Linn.
 50 Löve, A. & Löve, D. 1944a, 1966
 50, c.134 Löve, A. & Löve, D. 1956b
 c.130 Jørgensen, C.A. *et al.* 1958
- Luzula** DC.
 80; cosmopolitan, especially in temperate Eurasia, 4; temperate and alpine Himalaya (up to 4,830 m).
- campestris** (Linn.) DC.
 12 Matheiros, N. & Gardé, A. 1947; Wagner, M. de N. & Castro, D. 1952b; Brown, S.W. 1954; Sorsa, V. 1963b; Gadella, T.W.J. & Kliphuis, E. 1966; Hair, J.B. 1967; Lambert, A.M. & Giesl, J. 1967
 12, 12+B Wegner, M. de N. & Castro, D. 1952a
 12, 13, 14 Camara, A. *et al.* 1959
 12, 16 Nordenskiöld, H. 1961
 12, 36 Nordenskiöld, H. 1951, 1956
 18 Brenner, W. 1922; Tischler, G. 1938
 24 Sasaki, M. 1937
 36 Löve, A. & Löve, D. 1944a
- plumosa** Mey.
 46 Nordenskiöld, H. 1957
- spirata** (Linn.) DC.
 12 Michalska, A. 1953; Quézel, P. 1957
 12, 14, 24 Nordenskiöld, H. 1951
 12, 24 Favarger, C. 1965
 14 Chrtek, J. & Kriss, B. 1962
 18 Sokolovskaya, A.P. & Streikova, O.S. (Fedorov)
 24 Böcher, T.W. 1938a; Sörensen, T. & Westergaard, M. (Löve, A. & Löve, D. 1948); Nordenskiöld, H. 1949; Löve, A. & Löve, D. 1956b, 1966; Jørgensen, C.A. *et al.* 1958; Knaben, G. & Engelskjøn, T. 1967; Favarger, C. & Kupfer, P. 1968
 36 Contandriopoulos, J. & Gamisans, J. 1974

JUNCAGINACEAE Rich.

3/25 ; North and South temperate. 1/2 ; temperate and alpine Himalaya.

Triglochin Linn.

15 ; cosmopolitan, especially Australia and temperate South America. 2 ; temperate and alpine Himalaya (between 2,660 and 5,000 m).

- J.G. 1964 ; Larsen, K. 1965a ; Dersch, G. 1968 ; Delay, J. 1969a ; Mulligan, G.A. & Cody, W.J. 1973
 c.48 Hedberg, I. & Hedberg, O. 1964 ; Hedberg, O. 1967
 48, 120 Harada, I. 1956
 96 Taylor, R.L. & Mulligan, G.A. 1968
 120 Hara, H. 1960

maritimum Linn.

- 12 Tarnavachi, I.T. 1938
 12, 24, 36 Tarnavochi, I.T. 1948
 12, 48 La Cour, L.F. 1952
 24 Vickery, R.K. & Tai, W. 1970
 24, 30, 48 Piotrowicz (Skalińska, M. *et al.* 1961)
 24, 48 Leveque, M. & Gorenflot, R. 1969
 36 Labadie, J.P. 1976
 48 Winge, O. 1925 ; Rohweder, H. 1937 ; Wulff, H.D. 1939a, b ; Löve, A. & Löve, D. 1942b, 1944b, 1956b, 1958 ; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov) ; Sorsa, V. 1963b ; Packer,

palustre Linn.

- 24 Wulff, H.D. 1939a ; Löve, A. & Löve, D. 1944b, 1956b ; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov) ; Quézel, P. 1957 ; Irgenssen, C.A. *et al.* 1958 ; Piotrowicz (Skalińska, M. *et al.* 1961) ; Sokolovskaya, A.P. 1968 ; Delay, J. 1969a ; Leveque, M. & Gorenflot, R. 1969 ; Bogalskjön, T. & Knaben, G. 1971
 24-26 Sokolovskaya, A.P. (Fedorov)
 24, 36 Taylor, R.L. & Mulligan, G.P. 1968

LEMNACEAE S.F. Gray

6/30 ; cosmopolitan. 3/8 ; throughout India, and Sri Lanka.

Lemna Linn.

15 ; cosmopolitan. 4 ; throughout India and Sri Lanka.

- 42 Brooks, J.S. 1940 (Daubs, E.H. 1963)
 50 Murin, A. & Májovský, J. 1978

gibba Linn.

- 40, 50, 80 Hess, H.E. *et al.* 1972
 c.60 Weislo, H. 1970
 64 Blackburn, K.B. 1933 ; Tischler, G. 1934, 1937

trissela Linn.

- c.40 Weislo, H. 1970
 c. 40, 56-
 60 Hess, H.E. *et al.* 1972
 44 Blackburn, K.B. 1933 ; Tischler, G. 1934

minor Linn.

- 40 Blackburn, K.B. 1933 ; Tischler, G. 1934 ; Rohweder, H. 1937 ; Delay, C. 1947 ; Weislo, H. 1970
 40, 42, 50,
 80 Hess, H.E. *et al.* 1972

Spirodela Schleid.

6 ; cosmopolitan, absent in Africa. 2 ; throughout India, and Sri Lanka.

polyrrhiza (Linn.) Schleid.

- 30, 40 Hess, H.E. *et al.* 1972

520 LEMNACEAE

- 40 Blackburn, K.B. 1933 ; Weislo, H. 1970 ; Banerjee, M. 1971

Lemna polyrrhiza Linn.

- 40 Tischler, G. 1934 ; Rohweder, H. 1937 ; Ehrenberg, L. 1945

Wolffia Horkel ex Schleid.

10 ; tropics and temperate. 2 ; throughout India, and Sri Lanka.

arrhiza (Linn.) Wimm.

- 40 Banerjee, M. 1971
40, 50,
c.70, 80 Hess, H.E. *et al.* 1972
c.44 46 Lawalrée, A. 1943
c.50 Blackburn, K.B. 1933
50 Weislo, H. 1970

microscopica Kurz

- 70 Roy, R.P. & Dutt, B. 1967

LILIACEAE Juss.

250/3,700 ; throughout the world. 41/176 ; chiefly in Himalaya, and Nepal, Pakistan, Bhutan, Bangla Desh and Sri Lanka.

Alettris Linn.

25 ; East Asia and North America. 4 ; Himalaya (between 3,300 and 5,000 m).

pauciflora (Koltz.) Hand.-Mazz.

- c.50 Kumar, V. & Chauhan, K.P.S.

sikkimensis Hook. f.

- 26 Kurosawa, S. 1966

Aloe Linn.

275 ; tropics and South Africa, 42 in Madagascar, 12-15 in Arabia. Some cultivated.

abyssinica Lam.

- 14 Ferguson, N. 1927

abyssinica × *ferox*?

- 14 Sapre, A.B. 1976b

africana Mill.

- 14 Vij, S.P. *et al.* 1980

barbatenals Mill.

- 14 Mitra, K. 1964 ; Kaul, B.L. 1964 ; Sapre, A.B. 1975, 1977a,b, 1978a ; Ayyangar, K.R. & Sampathkumar, R. 1976

vera (Linn.) Webb & Berth.

- 10 Vig, B.K. 1965
10, 14 Vig, B.K. 1968
14 Sutarja, R.N. 1932 ; Marshak, A. 1934 ; Resende, F. 1937 ; Resende, F. & Rijo, L. 1948 ; Sharma, A.K. & Chatterji, A.K. 1958a, b ; Mehra, P.N. & Malik, C.P. 1961c ; Vij, S.P. & Madhu 1976
14, 28 Vij, S.P. *et al.* 1980
21 Abraham, Z. & Prasad, P.N. 1979

cuspidata (Linn.) Mill.

- 14 Geitler, L. 1935 ; Resende, F. 1937 ; Satô, D. 1937a, 1942 ; Brandham, P.E. 1971 ; Vij, S.P. *et al.* 1980
14, 15 Vij, S.P. & Madhu 1976
21 Sharma, A.K. & Mallick, R. 1961 (Mitra, K. 1964) ; Sharma, A.K. & Mallick, R. 1966

saponaria (Ait.) Haw.

latifolia Haw.

- 14 Satô, D. 1937a, 1942
14, 28 Vij, S.P. *et al.* 1980

variegata Linn.

- 14 Resende, F. 1937 ; Satô, D. 1937a, 1942 ; Snood, B. 1951 ; Sharma, A.K. & Mallick, R. 1966 ; Brandham, P.E. 1971 ; Vij, S.P. & Madhu 1976 ; Vij, S.P. *et al.* 1980

sp.

- 28 Sapre, A.B. 1976a

Asparagus Linn.

300 ; Old World. 24 ; chiefly in tropical and subtropical Himalaya, Southern and Western India, and Nepal, Pakistan, Bhutan, Bangla Desh and Sri Lanka.

adscendens Roxb.

- 20 Mehra, P.N. & Malik, C.P. 1961c

corillus Ham.

- 20 Malik, C.P. & Tandon, S.L. 1959b ; Mehra, P.N. & Malik, C.P. 1961c ; Mehra, P.N. & Sachdeva, S.K. 1971, 1976a

falcatus Linn.

- 40 Maccario, G. 1953 (Bozzini, A. 1959) ; Ishii, K. 1955

filicinus Ham.

- 20 Mehra, P.N. & Malik, C.P. 1961c ; Larsen, K. 1963b ; Mehra, P.N. & Sachdeva, S.K. 1976a ; Mehra, P.N. & Pandita, T.K. 1978

gracilis Royle

- 20 Baquar, S.R. & Abid Askari, S.H. 1970a,b
20 \pm 2B Mehra, P.N. & Malik, C.P. 1961c

nanus Hort.

- 20 Sharma, A.K. & Bhattacharyya, B. 1957a, b

officinalis Linn.

- 20 Shoji, T. & Nakamura, T. 1928 ; Tischler, G. 1934 ; Osaka, S. 1938 ; Tarnavski, I.T. 1948 ; Ishii, K. 1955, 1956 ; Braak, J.P. & Zoltinga, A.E. 1957 ; Janaki Ammal, E.K. & Kaul, B.L. 1967 ; Delay, J. 1968b ; Gadella, T.W.J. & Kliphuis, E. 1970a ; Májovský, J. *et al.* 1970b
20, 40 Davies, E.W. & Willis, A.J. 1959
40 Venkateswarlu, J. & Raju, C.S.K. 1957 ; Bozzini, A. 1959 ; Morrison, J.W. & Rajhatby, T. 1960a ; Löve, A. & Löve, D. 1964

racemosus Willd.

- 20 Sharma, A.K. & Bhattacharyya, B. 1957a, b ; Mehra, P.N. & Malik, C.P. 1961c ; Mehra, P.N. & Sachdeva, S.K. 1976a ; Sastry, M. 1981
22 Subramanian, D. 1973b
30 Thombre, M.V. 1959b
40 Venkateswarlu, J. & Raju, C.S.K. 1957 ; Raju, C.S.K. 1960
48 Sinha, S.S.N. *et al.* 1972

setaceus (Kunth) Jessop*plumosus* Baker

- 20 Kühn (Tischler, G. 1931) ; Osaka, S. 1938 ; Ishii, K. 1955 ; Sharma, A.K. & Bhattacharyya, B. 1957a, b ; Sastry, M. 1981

sprengeri Regel

- 60 Kühn (Tischler, G. 1931) ; Osaka, S. 1938 ; Ishii, K. 1955 ; Sharma, A.K. & Bhattacharyya, B. 1957a, b ; Mehra, P.N. & Malik, C.P. 1961c ; Riley, H.P. 1962

Asphodelus Linn.

12 ; Mediterranean to Himalaya. 2-3 ; Himalaya, plains of Northern India and Bengal.

tenuifolius Cav.

- 28 Prosina, M. (Fedorov) ; Reoso, G. 1957 ; Arora, C.M. 1960 ; Mehra, P.N. & Malik, C.P. 1961c ; Borgon, L. 1969 ; Gupta, P.K. & Srivastava, A.K. 1971 ; Sharma, V.K. & Chaurasia, B.D. 1974 ; Rejon, M.R. 1976
30 Sharma, A.K. & Bhattacharyya, B. 1957a, b

Aspidistra Ker-Gawl.

8 ; East Asia. 1 ; Eastern Himalaya.

longifolia Hook. f.

- 38 Larsen, K. 1963b

lurida Ker-Gawl.*

- 32 Mulay, B.N. & Kahate, S. 1957
36 Roy, S.K. 1961
38 Sarkar, A.K., Mallick, R. *et al.* 1977

Campylandra Baker

9 ; Eastern Himalaya, China and Indo-China. 2 ; Eastern Himalaya (up to 2,400 m), and Nepal and Bhutan.

aurantiaca (Wall.) Baker

- 38 Malla, S.B., Bhattarai, S. *et al.* 1977a

Cardiocrinum Endl.

3 ; Himalaya and East Asia. 1 ; temperate Himalaya and Khasi Hills (up to 3,330 m).

giganteum (Wall.) Makino

- 24 Kurosawa, S. 1966

Lilium giganteum Wall.

- 24 Hall, A.D. 1934 (Tischler, G. 1938) ; Stewart, R.N. 1947 ; Kumar, V. 1956 ; Sen, S. 1978

Chlorophytum Ker-Gawl.

215 ; South America, Africa, Madagascar, India, Australia and Tasmania. 16 ; chiefly in Deccan Peninsula and Eastern Himalaya, and Nepal, Bhutan and Sri Lanka.

acule Baker

- 16 Sheriff, A. & Chennaveeraiah, M.S. 1972

arundinaceum Baker

- 28 Malla, S.B., Bhattarai, S. *et al.* 1978b
40, 42 Zaman, M. A. & Khatun, F.A. 1975
42 Kumar, V. & Pahuja, A.N. 1967c ; Pahuja, A.N. & Kumar, V. 1969 ; Malla, S.B. *et al.* 1979

84 Kurosawa, S. 1966

attenuatum Baker

- 14 Boraiah, G. 1967
42, 84 Sheriff, A. & Chennaveeraiah, M.S. 1975

bharuchae Ansari, Raghavan & Hemadri

- 16 Naik, V.N. 1974a, 1977b, 1979 ; Raghavan, R.S. *et al.* 1977

borivilianum Santap. & Fernandez

- 16 Raghavan, R.S. *et al.* 1977

clatam R. Br.

- 28 Matsuura, H. & Sutō, T. 1935 ; Nakajima, G. 1936 ; Yamazaki, R. 1936 ; Satō, D. 1942 ; Sheriff, A. 1957 ; Sharma, A.K. & Chatterji, A.K. 1958a, b ; Koul, A.K. 1970 ; Mathew, P.M. & Thomas, K.J. 1974 ; Kanchar, S.D. & Geetha, K.S. 1977
32 Deshpande, B.D. 1955b

Anthericum picturatum Hort.

- 28 Sharma, A.K. & Chatterji, A.K. 1958a, b

var. *variegatum*

- 28 Pahuja, A.N. & Kumar, V. 1969 ; Koul, A.K. 1970

Anthericum variegatum Hort.

- 24 Deshpande, B.D. 1955a, b

glaucoides Blatt.

- 42 Naik, V.N. 1977b ; Raghavan, R.S. *et al.* 1977

glaucum Daiz.

- 16 Sheriff, A. & Chennaveeraiah, M.S. 1972
42 Raghavan, R.S. *et al.* 1977

heyneanum Wall.

- 14 Sheriff, A. & Chennaveeraiah, M.S. 1972 ; Mathew, P.M. & Thomas, K.J. 1974

14, 28, 56 Thomas, S. 1960

heynei Baker

- 14 Thomas, K.J. 1960

* *Aspidistra lurida* Baker, non Ker-Gawl. is a synonym of *A. longifolia* Hook. f. *A. lurida* Ker-Gawl., a plant native to China is different from the Himalayan *A. longifolia* Hook. f.

shasianum Hook. f.

- 22 Sharma, A. & Sarkar, A.K. 1967-1968
 56 Naik, V.N. 1977a, b
 60 Sarkar, A.K. *et al.* 1973b

taxum R. Br.

- 14 Baldwin, J.T. & Spese, B.M. 1951b
 16 Boraiah, G. 1966; Mathew, P.M. & Thomas, K.J. 1974; Sheriff, A. & Rao, U.G. 1974; Naik, V.N. 1976a; Raghavan, R.S. *et al.* 1977
 16, 32 Sheriff, A. & Nagaraj, M. 1971

malabaricum Baker

- 42 Jones, K. & Smith, J.B. 1967a; Mathew, P.M. & Thomas, K.J. 1974; Naik, V.N. 1977b

nepalense (Lindl.) Baker

- 42, 56 Sharma, A.K. & Chatterji, A.K. 1958a, b
 56 Kurosawa, S. 1966; Naik, V.N. 1977b

undulatum Will.

- 28 Boraiah, G. 1967

nimmonii Dalz

- 42 Raghavan, R.S. *et al.* 1977

orchidastrum Lindl.

- 14 Boraiah, G. & Fathima, T. 1971; Sheriff, A. & Rao, U.G. 1971
 28 Baldwin, J.T. & Spese, B.M. 1951b; Mulay, B.N. & Kahate, S. 1957; Larsen, K. 1963b
 42 Mathew, P.M. & Thomas, K.J. 1974

tuberosum Baker

- 16 Kumar, L.S.S. & Rao, H.K.S. 1958; Dnyanagar, V.R. & Chowta, C.D. 1969; Pabuja, A.N. & Kumar, V. 1969; Sheriff, A. & Chennaveeraiah, M.S. 1972; Naik, V.N. 1977b; Raghavan, R.S. *et al.* 1977

Clintonia Rafin.

6; temperate East Asia and North

America. I; temperate Himalaya (between 2,700 and 3,300 m), and Bhutan.

udensis Trautv. & Mey.

- 14 Sokolovskaya, A.P. (Fedorov)
 28 Matsuura, H. & Saito, T. 1935; Saito, D. 1942; Hara, H. & Kurosawa, S. 1963a; Utech, F.H. & Suda, Y. 1975
 c.30 Sokolovskaya, A.P. (Fedorov)
 38 Lee, Y.N. 1969

var. *alpina* (Kunth) Hara*

- 28 Kurosawa, S. 1966, 1971b; Kumar, V. 1968; Pabuja, A.N. & Kumar, V. 1970

alpina Kunth

- 28+28 Kumar, V. 1964-1965d
 36 Sharma, A. & Sarkar, A.K. 1967-1968

Colchicum Linn.

65; Europe, Mediterranean to Central Asia and North India. 1-2; temperate Western Himalaya and Kashmir (up to 2,330 m).

luteum Baker

- 38 Mehra, P.N. & Khoshoo, T.N. 1948

Dianella Lam.

30; tropical Asia, Australia, Polynesia and New Zealand. I; Khasi Hills, Chota Nagpur and Western Ghats, and Nepal and Sri Lanka - also cultivated.

ensifolia (Linn.) DC.

- 16 Chuang, T.I. *et al.* 1963
 16, 32 Larsen, K. 1963b
 32 Saito, D. 1942, 1953; Hara, H. 1968

sandwicensis Hook. & Arn.

- c.40,
 c.70 Skottsberg, C. 1955

**Clintonia udensis* Trautv. & Mey. var. *alpina* (Kunth) Hara is a synonym of *C. udense* Trautv. & Mey. (Wagner, R.H. 1973).

Dipodi Medik.

35; Mediterranean region, Africa, Madagascar and Peninsular India. 10; Peninsular India, and Pakistan.

concanense Dalz.

12 Kanmani, B.N. 1975

montanum Baker

10, 12 Naik, V.N. 1974b
20 Mahabale, T.S. & Chennaveeraiah, M.S. 1954, 1961

saxorum Blatter

12 Mahabale, T.S. & Chennaveeraiah, M.S. 1954; Chennaveeraiah, M.S. & Mahabale, T.S. 1962
12, 14 Naik, V.N. 1974b

serotinum (Linn.) Medik.

8 Satô, D. 1942, 1953; Levan, A. 1944; Van Louw, J.C. *et al.* 1971; Rejón, M.R. 1974
8, 8+B Fernandes, A. *et al.* 1948
8, 8+1-5B Fernandes, A. & Queiros, M. 1970-1971
8+2-16B Resende, F. & da Franca, P. 1946
32 Humphries, C.J. *et al.* 1978
64-68 Reese, G. 1957

ursulae Blatter

20 Mahabale, T.S. & Chennaveeraiah, M.S. 1954; Chennaveeraiah, M.S. & Mahabale, T.S. 1962

Disporum Salisb.

20; North temperate Asia and America. 3; temperate Himalaya (up to 2,630 m) and Western Ghats, and Nepal and Sri Lanka.

calcaratum D. Don

14 Kumar, V. 1964-1965b, 1968
18 Larsen, K. 1963b

cantonense (Lour.) Merr.

14 Sharma, A. & Sarker, A.K. 1967.

1968; Mehra, P.N. & Sachdeva, S.K. 1976e

14, 16 Kurosawa, S. 1971b
14, 16, 30 Kumar, V. 1964-1965b, 1968
14, 30 Kumar, V. & Chauhan, K.P.S.
16 Mehra, P.N. & Pathania, R.S. 1960a, b; Malla, S.B., Bhattarai, S. *et al.* 1978b

pullum Salisb.

14 Patnaik, S.N. & Naik, V.N. 1969; Mehra, P.N. & Sachdeva, S.K. 1971
16 Hasegawa, N. 1932; Delay, C. 1947

var. parviflorum (Wall.) Hara

14 Kurosawa, S. 1966

lescheanlianum D. Don

16 Kumar, V. 1964-1965b, 1965, 1968

Drimys Jacq.*

About 50; tropics and Africa. 4; Western Himalaya, Western, Eastern and Southern India, and Sri Lanka.

indica (Roxb.) Jessop**Urginea indica** (Roxb.) Kunth

10+1,
12+1,
14+1,
16+1,
18+1, 20,
20+1,
20+B, 21,
30, 30+B Subramanian, D. 1976, 1978
19, 20,
20+1, 22 Subramanian, D. 1980d
20 Raghavan, T.S. 1935b; Kapoor, S.P. 1937a; Kishore, H. 1951; Midge, J. 1960a; Mehra, P.N. & Malik, C.P. 1961c; Naik, V.N. 1976b; Zaman, M.A. & Khaleque, Y. 1978
20, 22, 30 Subramanian, D. 1973a
20, 28, 30,
40 Ayyangar, K.R. & Sanjpathkumar, R. 1968
20, 30 Raghavan, T.S. 1935a; Raghavan, T.S.

*Some taxonomists treat the Indian species of *Urginea* under *Drimys* (Ansari, M.Y. & Raghavan, R.S. 1980).

- & Venkatasubban, K.R. 1940a ;
Sharma, C.B.S.R. & Dash, S.K. 1977
20+1-7B Ayyangar, K.R. 1966
20+6-7B Sen, S. 1974b

Urginea coromandeliana Hook. f.

- 40 Naik, V.N. 1973, 1976b

Urginea govindappensis Boraiah & Fathima

- 20 Boraiah, G. & Khateel, T.F. 1970
(1972) ; Boraiah, A. & Fathima, T.
1972a

polyphylla (Hook. f.) Ans. & Raghavan*Urginea polyphylla* Hook. f.

- 20 Raghavan, T.S. & Venkatasubban,
K.R. 1940a

Eremurus M. Bieb.

50 ; alpine West and Central Asia. 2 ;
temperate Western Himalaya (up to
3,300 m) and North Western India.

himalaicus Baker

- 14 Burström, H. 1929 ; Oksala, T. &
Therman, E. 1958, 1977 ; Mehra,
P.N. & Sachdeva, S.K. 1976a ;
Mehra, P.N. & Pandita, T.K. 1978

persicus Jaub. & Spach*

- 14 Aryavand, A. 1975

Eucomis L'Hérit.

14 ; South tropical regions and South
Africa. 1 ; cultivated and naturalized.

undulata L'Hérit.**

- 30 Koerperich, J. 1930 ; Delay, C. 1947
60 Satō, D. 1935a, 1942 ; Fernandez, A.
& Novea, J.B. 1962

Fritillaria Linn.

85 ; North temperate. 7 ; temperate
Himalaya (up to 5,300 m), and Nepal.

cirrhosa D. Don

- 24 LaCour, L.F. 1951a ; Sharma, A.K.
& Sarkar, A.K. 1967-1968 ;
Kurosawa, S. 1971b

imperialis Linn.

- 24 Strasburger, E. 1882, 1888 ; Guignard,
L. 1891 ; van Wisselingh, C. 1899 ;
Taylor, W.R. 1926 ; Darlington, C.D.
1930b, 1936 a ; Sharma, A. & Sarkar,
A.K. 1967-1968 ; Mehra, P.N. &
Pandita, T.K. 1978 ; Koul, A.K. &
Wafai, B.A. 1980

24, 24+1-

- 12B LaCour, L.F. 1951a

oxypetala Royle

- 24 Kumar, V. & Chauhan, K.P.S.

roylei Hook.

- 24 Sharma, A.K. & Sharma, A. 1961b ;
Mehra, P.N. & Sachdeva, S.K.
1976a ; Mehra, P.N. & Pandita, T.K.
1978 ; Koul, A.K. & Wafai, B.A.
1980

Gagea Salisb.

70 ; temperate Eurasia. 8 ; North
Western Himalaya, 1 extending to the plains
of Punjab.

obscurigera Regel

- 48, 60 Koul, A.K. & Khan, A.U. 1969

elegans Wall.

- 72, 96, 132 Koul, A.K. & Khan, A.U. 1969

gagoides (Zucc.) Vved.

- 48 Koul, A.K. & Khan, A.U. 1969

kashmiriensis Turritt

- 24 Koul, A.K. & Khan, A.U. 1969

lutea Ker- Gawl.

- 48 Malik, C.P. 1961b
72 Sakamura, T. & Stow, I. 1926 ;
Tischler, G. 1934 ; Matsuura, H. &
Suiō, T. 1935 ; Westergaard, M.

*The combination *Eremurus persicus* should be attributed to Boiss.

**The combination *Eucomis undulata* was made by Ait. and it is a synonym of *E. antmannii* (Mill.)
Chitt.

- 1936 ; Leute, G.-H. 1974 ; Mgsitek, J. & Hrouda, L. 1974 ; Váchová, M. & Májovský, J. 1978 ; Váchová, M. 1980
- 96 Mehra, P.N. & Sachdeva, S.K. 1976a
- persica* Boiss.
- 48 Mehra, P.N. & Sachdeva, S.K. 1971, 1976a
- reticulata* Schult.
- 24 Malik, C.P. & Sehgal, S.M. 1959 ; Koul, A.K. & Khan, A.U. 1969 ; Roy, C.C. & Dafni, A. 1971
- stipitata* Merckl.
- 72 Koul, A.K. & Khan, A.U. 1969 ; Koul, A.K. *et al.* 1976
- Gloriosa** Linn.
- 5 ; tropical Africa and Asia. 3 ; 1 throughout tropical India (up to 1,650 m in the Himalaya), and Sri Lanka rest cultivated.
- simplex* Linn.
- 22 Janaki Ammal (D. 1945) ; Khoshoo, T.N. 1956a
- plantii* Loud.
- 22 Narain, P. 1979a
- superba* Linn.
- 22 Miller, E.W. 1930 ; Sató, D. 1942 ; Janaki Ammal (D. 1945) ; Delay, C. 1947 ; Tjio, J.H. 1948 ; Khoshoo, T.N. 1956a, 1979 ; Mitra, K. & Datta, N. 1967 ; Mehra, P.N. & Sachdeva, S.K. 1976a
- 22, 90 Sharma, A.K. & Sharma, A. 1961b
- 88 LaCour, L.F. 1931b
- cva*
- 22 Khoshoo, T.N. 1979
- 44 Narain, P. 1980b
- Hemerocallis** Linn.
- 20 ; temperate Eurasia, especially Japan. 2 ; Himalaya and Khasi Hills, 1 cultivated.
- aurantiaca* Baker
- 22 Takenaka, Y. 1929 ; Dark, S.O.S. 1932 ; Stout, A.B. 1932 ; Traub, H.P. 1951 ; Mookerjee, A. 1956 ; Sharma, A.K. 1956a ; Sharma, A.K. & Bhattacharyya, N.K. 1960 ; Matsuoka, M. 1972
- 33 Vij, S.P. *et al.* 1978
- fulva* Lian.
- 22 Flory, W.S. 1943 ; Vij, S.P. *et al.* 1978 ; Narain, F. 1980a
- 22, 33 Dark, S.O.S. 1932 ; Mookerjee, A. 1956 ; Sharma, A.K. 1956a
- 32 Navashin, S.G. (Tischler, G. 1927a) ; Sienicka, A. 1929 (Flory, W.S. & Yarnell, S.H. 1937)
- 33 Belling, J. 1925 ; Takenaka, Y. 1929 ; Singh, A. 1940b ; Sató, D. 1942 ; Delay, C. 1947 ; Matsuoka, M. 1971 ; Hill, L.M. 1978
- 44 Traub, H.P. 1971
- 48 Schürhoff, P.N. 1926 (Flory, W.S. & Yarnell, S.H. 1937)
- var. cypriana*
- 33 Khoshoo, T.N. 1979
- var. europa*
- 33 Khoshoo, T.N. 1979
- var. fulva*
- 33 Matsuoka, M. 1972
- cv. 29*
- 29 Khoshoo, T.N. 1979
- cv. Flore Pleno*
- 33 Khoshoo, T.N. 1979
- cv. Garden Lady*
- 23 Khoshoo, T.N. 1979
- cv. Mrs. David Hall*
- 44 Khoshoo, T.N. 1979
- hybrid clone Norma Borland*
- 22 Narain, P. 1979b
- Iphigenia** Kunth
- 12 ; tropical and South Africa, Madagascar, India, Australia and New Zealand. 5 ; throughout India (up to 2,310 m in Himalaya) and Western Ghats, and Sri Lanka.

indica (Linn.) A. Gray

- 22 Joshi, A.C. 1939 ; Sheriff, A. 1954b, 1955 ; Sheriff, A. & Rao, U.G. 1972 ; Sarkar, A.K., Mallick, R. *et al.* 1977 ; Sarkar, A.K. & Datta, N. 1978 ; Sarkar, A.K. & Dutta, N. 1978
- 22, 26, 33,
44 Kumar, R.S. & Ayyangar, K.R. 1977
44 Larsen, K. 1963b

magnifica Ans. & Rolla

- 22 Sarkar, A.K. & Datta, N. 1978 ; Sarkar, A.K. & Dutta, N. 1978

mysorensis Arekal & Swamy

- 22 Arekal, G.D. & Swamy, S.N.R. 1972 ; Sarkar, A.K. & Datta, N. 1978 ; Sarkar, A.K. & Dutta, N. 1978
- 44 Sarkar, A.K., Mallick, R. *et al.* 1977

pauciflora Baker

- 22 Sheriff, A. & Rao, U.G. 1972 ; Sarkar, A.K., Mallick, R. *et al.* 1977 ; Sarkar, A.K. & Datta, N. 1978 ; Sarkar, A.K. & Dutta, N. 1978

stellata Blatt.

- 22 Sarkar, A.K., Datta, N. *et al.* 1976 ; Sarkar, A.K. & Datta, N. 1978 ; Sarkar, A.K. & Dutta, N. 1978

Kniphofia Moench.

75 ; East and South Africa, and Madagascar. 2 ; cultivated.

nepalensis Hort.

- 12 Sharma, A. & Sarkar, A.K. 1967-1968

utaria (Linn.) Oken

- 12 Moffett, A.A. 1932b ; de Wet, J.M.J. 1960c ; Mehra, P.N. & Sachdeva, S.K. 1976a ; Mehra, P.N. & Pandita, T.K. 1978
- 12, 13 Webber, J.M. 1932 (Mehra, P.N. & Sachdeva S.K. 1976a)

Lilium Linn.

80 ; North temperate. About 20 ; chiefly in Western Himalaya (up to 4,000 m), and Nepal a few cultivated.

suratense Lindl.

- 24 Satô, M. 1932 ; Cooper, D.C. 1936b ; Eigsti, O.J. 1940 ; Kumasawa, M. & Kimura, M. 1947 (Löve, A. & Löve, D. 1961b) ; Ogihara, R. 1962a
- 24, 24+B Stewart, R.N. 1947
- 24,
24+1-2B Ogihara, R. 1962b, c
24+1-2B Ogihara, R. 1960

candidum Linn.

- 24 Strasburger, E. 1882 ; Guignard, L. 1884, 1891 ; Miyake, K. 1905 ; Némec, B. 1910 ; Belling, J. 1927b ; Hall, A.D. 1934 (Tischler, G. 1938) ; Sansome, E.R. & LaCour, L. 1934 (D. 1955) ; Mather, K. 1935 ; Emsweller, S.L. & Stewart, M.B. 1944 ; Delay, C. 1947 ; Stewart, R.N. 1947 ; Raicu, P. *et al.* 1971 ; Lovka, M. *et al.* 1972 ; Arrigoni, V. *et al.* 1976

chinaense (Hort. var.)

- 48 Sharma, A.K. & Bhattacharyya, B. 1957b

cordifolium Thunb.

- 24 Mehra, P.N. & Sachdeva, S.K. 1976a

davidii Duch. ex Elwes

- 24 Hall, A.D. 1934 (Tischler, G. 1938) ; Beal, J.M. 1942 ; Delay, C. 1947 ; Stewart, R.N. 1947
- 24, 24+B Stewart, R.N. 1943

henryi Baker

- 24 Sen, S. 1978

longiflorum Thunb.

- 24 Yamanouchi, S. 1901 ; Belling, J. 1927b, 1928 ; Goodspeed, T.H. *et al.* 1935 ; Emsweller, S.L. & Lumsden, D.V. 1943 ; Stewart, R.N. 1947 ; Emsweller, S.L. & Ubrink, J. 1958 ; Holm, P.B. 1977 ; Sen, S. 1978 ; Bennici, A. 1979
- 48 Moens, P.B. 1970

martagon Linn.

- 24 Strasburger, E. 1882, 1908 ; Guignard, L. 1884, 1889, 1891 ; Sargent, E. 1896, 1897 ; Miyake, K. 1905 ; Holman, J. 1928 ; Hall, A.D. 1934 (Tischler, G. 1950) ; Sansome, E.R. & LaCour, L. 1934 (Tischler, G.

- 1950); Stewart, R.N. 1947; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Pólya, L. 1950; Weislo (Skalińska, M. *et al.* 1957); Sorsa, V. 1963b; Lovka, M. *et al.* 1971, 1972; Van Loon, J.C. & Oudemans, J.J.M.H. 1976
- 24,
24+1-2B Holub, J. *et al.* 1972
24,
24+1-3B Fernandes, A. 1950
- maxwelli* Hort.
24 Sen, S. 1978
- nana* Kotz.
Nomocharis nana Wilson
48 Taylor (Darlington, C.D. 1936b)
- nepalensis* Wight
24 Abraham, A. 1939; Sen, S. 1978
- nepalense* D. Don
24 Malla, S.B. *et al.* 1974; Sen, S. 1978
- polyphyllum* D. Don
24 Kumar, V. & Pahuja, A.N. 1967b; Mehra, P.N. & Sachdeva, S.K. 1971, 1976a; Mehra, P.N. & Pandita, T.K. 1978
- regale* Wilson
24 Belling, J. 1927b, 1928; Hall, A.D. 1934 (Tischler, G. 1938); Sansome, E.R. & LaCour, L. 1934 (D. 1955); Mather, K. 1935; Cooper, D.C. 1936b; Stewart, R.N. 1947; Raicu, P. *et al.* 1971; Sen, S. 1978
- virginum* Ker-Gawl.
24 Coulter, J.M. *et al.* 1897; Hsu-Siang, 1932; Sharma, A. & Sarkar, A.K. 1967-1968
36 Takenaka, Y. & Nagamatsu, T. 1930; Sató, M. 1932; Hall, A.D. 1934 (Tischler, G. 1938); Mather, K. 1935; Stewart, R.N. 1943; Moens, B. 1968; Sen, S. 1978
36, 36+B Sansome, E.R. & LaCour, L. 1934 (D. 1955)
- wallichianum* Schult. & Schult. f.
24 Sen, S. 1978
- Lloydia* Salisb. *ex* Reichb.
20; North temperate. 1; alpine Himalaya (between 4,000 and 5,660 m).
scrotina (Linn.) Salisb. *ex* Reichb.
24 Newton, W.C.F. 1927, Sakai, K. 1935a; Sató, D. 1942, 1953; Bianchi, R. 1946; Larsen, K. 1954a; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Wiens, D. & Halleck, D. 1962; Sokolovskaya, A.P. 1968; Skalińska, M. *et al.* 1971; Zhukova, F.G. & Petrovsky, V.V. 1971; Mehra, P.N. & Sachdeva, S.K. 1975b
36 Knaben, G. 1968
48 Johnson, A.W. & Packer, J.G. 1968
- Notholirion* Wall. *ex* Boiss.
6; Persia to West China. 3; Himalaya,
campanulatum Cotton & Stearn
24 LaCour (D. 1955)
macrophyllum (D. Don) Boiss.
24 LaCour (D. 1955)
Lilium longifolium Griseb.
24 Sharma, A.K. & Bhattacharyya, B. 1957a, b
thomsonianum (Royle) Stapf
24 Wylie (D. 1955); Sobti, S.N. & Singh, S.D. 1961
- Ophiopogon* Ker-Gawl.
20; Himalaya to Japan and Philippines. 8; chiefly in Eastern Himalaya (up to 3,000 m) a few cultivated.
clarkii Hook. f.
38 Sarkar, A.K. *et al.* 1974
intermedius D. Don
36 Malik, C.P. 1962; Larsen, K. 1963b; Sharma, A.K. & Chaudhuri, M. 1964
36, 72,
108, 144 Mehra, P.N. & Malik, C.P. 1961a
108 Sheriff, A. & Singh, B.K.S. 1975
112 Dudgeon, W. 1923 (Tischler, G. 1927a)

japonicus (Thunb.) Ker-Gawl.

- 36, 72 Satō, D. 1942
 67 Nagamatsu, T. & Noda, S. 1971
 72 Sharma, A.K. & Chaudhuri, M.
 1964; Hasegawa, K. 1968; Hsu,
 C.-C. 1971

micranthus Hook. f.

- 108 Malik, C.P. 1961b, 1962

reptans Hook. f.

- 36 Larsen, K. 1963b

wallichianus Hook. f.

- 36 Sarkar, A.K. *et al.* 1974
 36, 108 Malik, C.P. 1962

Peliosanthes Andr.

15; Himalaya to Formosa and Java. 7;
 Eastern Himalaya and Southern India, and
 Bangla Desh.

macrophylla Wall. *ex* Baker

- 36 Sarkar, A.K., Datta, N. *et al.* 1976

violacea Wall.var. **minor** Baker

- 36 Sarkar, A.K., Mallick, R. *et al.* 1977

Polygonatum Mill.

50; North temperate. 15; mostly in
 temperate Himalaya (up to 4,330 m), and
 Nepal and Bhutan.

brevistylum Baker

- 28 Kumar, V. 1968
 30 Kumar, V. 1961

cathartii Baker

- 30 Kumar, V. 1960b

cirrifolium Royle

- 26, 27, 28,
 29, 30, 31,
 38, 56, 60 Kumar, V. 1968
 26, 28 Kumar, V. 1960c
 30 Kurosawa, S. 1966
 38 Kumar, V. 1959b, c
 56 Kumar, V. 1964-1965c

geminiflorum Decne

- 30 Kumar, V. 1968; Mehra, P.N. &

Sachdeva, S.K. 1971, 1976c; Mehra,
 P.N. & Pandita, T.K. 1978

graminifolium Hook.

- 28 Sachdeva, S.K. & Malik, C.P. 1977
 30 Kumar, V. 1960b, 1968; Kurosawa, S.
 1971b

hookeri Baker

- 30 Therman, E. 1953b; Kumar, V. 1968

multiflorum (Linz.) All.

- 18 Berg, K.H. von 1933; Tischler, G.
 1934; Pólya, L. 1950; Therman, E.
 1953a (Löve, A. & Löve, D. 1961b);
 Gadella, T.W.J. & Kliphuis, E. 1963,
 1966; Zhukova, P.G. 1967b;
 Májovský, J. *et al.* 1970b; Abramova,
 L.I. 1971; Lovka, M. *et al.* 1971;
 Skalińska, M. & Pogan, E. 1971;
 Nowakowska, T. & Zeglicka, B. 1972
 18, 20, 28 Suomalainen, E. 1947
 18, 22, 66 Mehra, P.N. & Pathania, R.S. 1960a
 18, 24 Eigsti, O.J. 1942
 18, 30 Dark (Maude, P.F. 1939)
 20 Sorsa, V. 1963b; Abramova, L.I.
 1965
 22 Mehra, P.N. & Pathania, R.S. 1960b;
 Kumar, V. 1968 Mehra, P.N. &
 Sachdeva, S.K. 1976c; Mehra, P.N. &
 Pandita, T.K. 1978
 24 Bönicke, L. 1911
 28 Abramova, L.I. 1970

oppositifolium (Wall.) Royle

- 30 Kumar, V. 1960b, 1968; Kurosawa, S.
 1966; Sharma, A. & Sarkar, A.K.
 1967-1968
 36 Arora, C.M. 1961

punctatum Royle

- 26 Sharma, A. & Sarkar, A.K. 1967-
 1968
 30 Kurosawa, S. 1966

vibrileus Red.

- 20, 21 Suomalainen, E. 1947
 26, 28 Therman, E. 1953b
 30 Mehra, P.N. & Sachdeva, S.K. 1976c
 30, 38 Sharma, A. & Sarkar, A.K. 1967-1968
 36 Mehra, P.N. & Pathania, R.S.
 1960a,b

singalilense Hara

- c.46 Kurosawa, S. 1971b

verticillatum (Linn.) All.

- 24 Mattick (Tischler, G. 1950)
 26 Berg, K.H. von 1933; Tischler, G. 1934; Junel (Löve, A. & Löve, D. 1942b); Sokolovskaya, A.P. & Sitikova, O.S. (Fedorov); Mehra, P.N. & Pathania, R.S. 1960a; Abramova, L.I. 1965; Polatschek, A. 1966b; Májovský, J. *et al.* 1970b; Abramova, L.I. 1971; Laane, M.M. 1971; Lovka, M. *et al.* 1971, 1972; Skalińska, M. & Pogau, E. 1971; Sulík, E. 1977
 28, 30, 60 Mehra, P.N. & Sachdeva, S.K. 1976c; Mehra, P.N. & Pandita, T.K. 1978
 28, 60.
 86-91 Therman, E. 1953b
 28, c.90 Suomalainen, B. 1947
 29, 30, 60.
 64 Kumar, V. 1959c
 30 Kurosawa, S. 1966
 30, 31, 58.
 59, 60, 62 Kumar, V. 1968
 30, 64 Kumar, V. 1959b
 30, 84 Dark (Maude, P.F. 1939)
 60 Sachdeva, S.K. & Malik, C.P. 1977
 66 Mehra, P.N. & Pathania, R.S. 1960b

Scilla Linn.

80; temperate Eurasia, South Africa, a few in tropical Africa. 4; Punjab, Central and Western India, and Deccan Peninsula, and Sri Lanka - a few cultivated.

hohemackeri Fisch. & Mey.

- 10 Rao, Y.S. 1954, 1956b

byacanthina (Roth) Macbr.

- 20 Sarkar, A.K., Datta, N. & Chatterjee, U. 1980
 26 Ratter, J.A. & Milne, C. 1973b

indica Baker

- 20, 22, 44,
 45, 46, 58 Subramanian, D. 1981
 30 Sherif, A. & Murthy, M.H.S. 1946
 30, 44, 45,
 46, 58, 60 Rao, Y.S. 1956a
 44, 45, 46 Raghavan, T.S. & Venkatasubban, K.R. 1939b, 1940c
 44, 45, 46,
 58 Rao, Y.S. 1953a

Smilacina Desf.

25; Himalaya and East Asia to North and Central America. 3; temperate Himalaya (between 1,600 and 4,300 m), and Nepal.

fusca Wall.

- 36 Kumar, V. 1959a
 c.72 Hara, H. & Kurosawa, S. 1963a
 72 Kumar, V. 1960a, 1968; Kurosawa, S. 1966; Sharma, A. & Sarkar, A.K. 1967-1968; Sachdeva, S.K. 1977; Mehra, P.N. & Sachdeva, S.K. 1979

oleracea Hook. f. & Thoms.

- 36 Kumar, V. 1959a, 1960a; Hara, H. & Kurosawa, S. 1963a; Kurosawa, S. 1966; Sachdeva, S.K. 1977; Malla, S.B., Bhattarai, S. *et al.* 1978b; Mehra, P.N. & Sachdeva, S.K. 1979

purpurea Wall.

- 36 Mehra, P.N. & Pathania, R.S. 1960a, b; Kurosawa, S. 1966; Mehra, P.N. & Sachdeva, S.K. 1976a

pallida Royle

- 36 Kumar, V. 1959a, 1960a, 1968

f. nigriphylla (Baker) Hara*oligophylla* Hook. f.

- 36 Kumar, V. 1959a, 1968

Streptopus Rich. in Michx.

10; North temperate Eurasia (excluding West Europe) and America, South to Himalaya and South United States. 1; temperate Himalaya (between 2,660 and 4,000 m).

simplex D. Don

- 16 Kumar, V. 1968; Kurosawa, S. 1971b

Tricyrtis Wall.

10; Himalaya and East Asia. 1; temperate Himalaya and Khasi Hills (between 1,600 and 2,600 m), and Nepal and Bhutan.

maculata (D. Don) Macbr.

26 Kurosawa, S. 1971b

pilosa Wall.

26 Miller, E.W. 1930 (Tischler, G. 1931); Subramanyam, K. & Kamble, N.P. 1967

Tulipa Linn.

100; temperate Eurasia, especially steppes of Central Asia. 6; temperate Western Himalaya (up to 2,600 m) and Punjab a few cultivated.

aitchisonii A.D. Hall

24 Sen, S. 1977

chrysantha Boiss. ex Baker24, 48 Upcott, M. & LaCour, L. 1936
48 Newton, W.C.F. 1927; Hall, A.D. 1937; Woods, M.W. & Bamford, R. 1937*clausiana* DC. var. *stellata* (Hook.) Regel*stellata* Hook.24 Woods, M.W. & Bamford, R. 1937; Sobti, S.N. & Singh, S.D. 1961; Sen, S. 1977
24, 48 Darlington, C.D. & Janaki Ammal, E.K. 1932; Hall, A.D. 1937; Upcott, M. & Philip, J. 1939
48 Malik, C.P. 1961b; Mehra, P.N. & Pandita, T.K. 1978*gemericana* Linn.24 Guignard, L. 1900; Heitz, E. 1926; de Mol, W.E. 1926; Hall, A.D. 1937; Takusagawa, H. & Kashiwagi, Y. 1955; Takusagawa, H. 1962, 1967; Takusagawa, H. *et al.* 1962, 1963; Takusagawa, H. & Yoshida, M. 1964; Raicu, P. *et al.* 1971
24, 25, 26 Takusagawa, H. & Yoshida, M. 1956
24, 25, 36 Takusagawa, H. & Yoshida, M. 1959
24, 36 Upcott, M. & LaCour, L. 1936; Woods, M.W. & Bamford, R. 1937; Takusagawa, H. & Yoshida, M. 1958, 1960
24, 36, 48 Takusagawa, H. & Yoshida, M. 1957
36 Darlington, C.D. & LaCour, L.F. 1941*scaveolens* Roth

24 Newton, W.C.F. 1927; Upcott, M. & LaCour, L. 1936; Hall, A.D. 1937

Tupistra Ker-Gawl.

6-7; Himalaya and South China to Malay Peninsula. 4; Eastern Himalaya (up to 2,600 m), and Nepal and Bhutan.

nutans Wall.

38 Nagamatsu, T. & Noda, S. 1970

Veratrum Linn.

25; North temperate. 1; introduced.

viride Ait.

32 Löve, A. & Löve, D. 1966

LIMNOCHARITACEAE Takhtadj.

4/7; tropics. 2/2; 1 Kerala and 1 throughout the greater part of India.

Limnocharis HBK

1; tropical South America and West Indies. Kerala.

flava (Linn.) Buch

20 Rao, Y.S. 1953b; Sharma, A.K. & Mukherji, R.N. 1955; Harada, I. 1956; Larsen, K. 1963b; Sharma, A.K. & Chatterjee, T. 1967;

532 LIMNOCHARITACEAE

Subramanyam, K. & Kammathy,
R.V. 1967

Tenagocharis Hochst.

1 ; tropical Africa, throughout the

greater part of India, South East Asia, Java,
Madura, North and North East Australia.

latifolia (D. Don) Buch.

14 Rao, Y.S. 1953b ; Sharma, A.K. &
Chatterjee, T. 1967

MARANTACEAE Petersen

30/400 ; tropics, chiefly America. 6/11 ; Eastern Himalaya, Southern India, Andaman
and Nicobar Islands, and Bangla Desh and Sri Lanka a few cultivated.

Calathea G.F.W. Mey.

150 ; tropical America and West Indies.
1 ; cultivated.

zebrina Lindl.

22 Sharma, A.K. & Bhattachayya, N.K.
1958a, d
26 Venkatasubban, K.R. 1946 ; Satô, D.
1960 ; Golechha, P. & Sharma, A.K.
1968

Maranta Linn.

23 ; tropical America. 1 ; wild in some
parts of India, sporadically cultivated.

arundinacea Linn.

18 Satô, D. 1948, 1960
46 Venkatasubban, K.R. 1946
48 Simmonds, N.W. 1954

Phrynium Willd. *emend.* K. Schum.

30 ; tropical Africa and Indo-Malesia.
5 ; Eastern Himalaya, Southern India, and
Bangla Desh and Sri Lanka.

capitatum Willd.

36 Bisson, S. *et al.* 1968

MUSACEAE Juss.

2/42 ; tropical Africa, Asia and Australia. 1/16 ; Eastern Himalaya and Western Ghats,
and Nepal and Sri Lanka a few cultivated.

Musa Linn.

35 ; palaeotropics. 16 ; Eastern
Himalaya and Western Ghats, and Nepal
and Sri Lanka a few cultivated.

acuminata Colla

22? White, P.R. 1928
22 Cheesman, E.E. & Laxter, L.N.H.
1935 ; Dodds, K.S. 1946 ; Dodds,

K.S. & Simmonds, N.W. 1948 ;
Simmonds, N.W. & Dodds, K.S.
1949 ; Vakili, N.G. 1967

22, 33 Chakravorti, A.K. 1951

cavendishii Lamb.

32 White, P.R. 1928
32+2f Matsuura, H. & Saitô, T. 1935
33 Cheesman, E.E. 1931 (Tischler, G.
1935-1936) ; Agharkar, S.P. &
Bhaduri, P.N. 1935

- banksii* F. Muel.
22 Dodds (D. 1945)
- agharkarii* Chakrav.
18 *In* W1 6 : 450
- balbisiana* Colla
22 Dodds, K.S. & Simmonds, N.W. 1948 ; Simmonds, N.W. & Dodds, K.S. 1949 ; Bernardo, F.A. 1957 ; Vakili, N.G. 1967 ; Ayyangar, K.R. & Moorthy, V.D. 1968 ; Bisson, S. *et al.* 1968
22, 33 Chakravorti, A.K. 1951
- basjoo* Sieb. & Zucc.
22 D'Angremond, A. 1914 ; Morinaga, T. *et al.* 1929 ; Simmonds, N.W. & Dodds, K.S. 1949
- coccinea* Andr.
20 Cheesman, E.E. & Larter, L.N.H. 1935
- fehii* Bert.
20 Dodds, K.S. 1946 ; Chakravorti, A.K. 1951
- glauca* Roxb.
207 White, P.R. 1928
- itinerans* Cheesman
22 Simmonds, N.W. & Dodds, K.S. 1949
- nagesium* Prain
22 Wilson, G.B. 1946
- ovata* Roxb.
22 Cheesman, E.E. & Larter, L.N.H. 1935 ; D'Angremond, A. 1914 ; Chakravorti, A.K. 1949b
- rosacea* auct.?
21+1f, 22 Govindaswami, S. 1950
- paradisica* Linn.
22, 32, 33,
34, 35 Agharkar, S.P. & Bhaduri, P.N. 1935
22, 33 Ayyangar, K.R. & Moorthy, V.D. 1968
32 D'Angremond, A. 1914 ; White, P.R. 1928
- sapientum* Linn.
16, 32, 48 Tischler, G. 1910
- 22 Cheesman, E.E. & Larter, L.N.H. 1935
22-24, 32 D'Angremond, A. 1914
22, 44, 55 Dodds, K.S. 1943
22, 44, 55,
77, 88 Dodds, K.S. (D. 1945)
33 Mahanty, H.K. 1970
- cv. *Anai Komban*
33 Govindaswami, S. 1950
- cv. *Basrai*
33 Govindaswami, S. 1950
- cv. *Elrazai*
22 Govindaswami, S. 1950
- cv. *Ennadenian*
33 Govindaswami, S. 1950
- cv. *Kallumonthan*
33, 33+1f Govindaswami, S. 1950
- cv. *Lal Kel*
33 Govindaswami, S. 1950
- cv. *Lal Velchi*
33 Govindaswami, S. 1950
- cv. *Muskel*
33 Govindaswami, S. 1950
- cv. *Mutheli*
33 Govindaswami, S. 1950
- cv. *Poovam*
33 Govindaswami, S. 1950
- cv. *Rajeli*
33 Govindaswami, S. 1950
- cv. *Runkela*
22 Govindaswami, S. 1950
- cv. *Safet Velchi*
22, 22+1f Govindaswami, S. 1950
- sanguinea* Hook.
22 Simmonds, N.W. & Dodds, K.S. 1949 ; Govindaswami, S. 1950
24 White, P.R. 1928
- superba* Roxb.
18 Agharkar, S.P. & Bhaduri, P.N. 1935 ; Chakravorti, A.K. 1951 ; Sharma, A.K. & Sharma, A. 1959

Ensete superbum Cheesman

18 Cheesman, E.B. 1947

textilis Née

20 White, P.R. 1928 ; Cheesman, E.B. & Larter, L.N.H. 1935 ; Bernardo, F.A. 1957 ; Pancho, J.V. & Capinpin, J.M. 1959

22 Govindaswami, S. 1950

velutina Wendl. & Drude

22 Thomas (D. 1945) ; Simmonds, N.W. & Dodds, K.S. 1949

dasycarpa Kurz

22 Govindaswami, S. 1950

NAJADACEAE Juss.

1/50 ; throughout the world. 1/8 ; throughout India, and Sri Lanka.

Najas Linn.

50 ; throughout the world. 8 ; many throughout India, and Sri Lanka.

foveolata A. Br.

12, 24, 34 Harada, I. 1943, 1956

graminea Delile24 Harada, I. 1943, 1956
24, 48, 72,
96+4f Fotedar, J.L. & Roy, S.K. 1972
48 Sharma, A.K. & Chatterjee, T. 1967*indica* (Willd.) Cham.

12 Fotedar, J.L. & Roy, S.K. 1972

marina Linn.ssp. *major* (All.) Viinikka

12 Viinikka, Y. 1976

major All.

12 Lewitsky, G.A. 1931a

12 ♂ Guignard, L. 1899a, b, 1901 (Harada, I. 1956)

12 (♂, ♀) Tschernnyarow, M.B. (Fedorov) ; Takamine, N. 1927 ; Lewitsky, G.A. 1931a

13 (♂, ♀) Harada, I. 1956

14 ♂ Winge, O. 1927

ssp. *marina*

12 Viinikka, Y. 1976

marina Linn.

12 Tischler, G. 1934 ; Wolff, H.D. 1937a ; Westergaard (Löve, A. & Löve, D. 1948)

14 Müller, C. 1912

minor All.

12 Sharma, A.K. & Chatterjee, T. 1967 ; Fotedar, J.L. & Roy, S.K. 1972

12, 36 Harada, I. 1943, 1956

24 Chase, S.S. 1947a, b ; Davenport, L.J. 1980

NYPACEAE (Engl. & Gilg) Tralau

1/1 ; Coasts of tropical Asia and Australia. Sunderbans to Kanyakumari and the Andamans, and Sri Lanka.

Nypa Steck.

1; Gangetic Delta, Sri Lanka, Malaysia, Marianne and Solomon Islands and tropical Australia. Sunderbans to

Kanyakumari and the Andamans.

fruticans Wurm.

16 Radermacher, A. 1926

ORCHIDACEAE Juss.

About 735/20,000 ; throughout the world, abundant in tropics, rare in arctic regions. About 135/1,010 ; mostly in Himalaya and Western Ghats, abundant in Eastern Himalaya, and Nepal, Pakistan, Bhutan, Bangla Desh and Sri Lanka.

Acanthe Lindl.

15 ; tropical and South Africa, Madagascar and tropical Asia. 15 ; Himalaya, Western Ghats, Gangetic Delta, Bengal, Peninsular India, and Bhutan, Bangla Desh and Sri Lanka.

ochracea Hochr.

38 Kamemoto, H. *et al.* 1964

papillosa (Lindl.) Lindl.

36 Mehra, P.N. & Kashyap, S.K. 1978 ; Mehra, P.N. & Sehgal, R.N. 1978
38 Kamemoto, H. *et al.* 1964 ; Tara, M. & Kamemoto, H. 1970

Saccolabium papillosum Lindl.

38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

praemorsa (Roxb) Blatt. & McCann.

38 Kulkarni, H. & Jorapur, S.M. 1979

wightiana Lindl.

38 Balganur, B.M. 1972

rigida P.F. Hunt

38 Mehra, P.N. & Sehgal, R.N. 1980

longifolia Lindl.

30 Kamemoto, H. *et al.* 1964
38 Vij, S.P. & Mehra, P.N. 1976 ; Maita, S.B., Bhattarai, S. *et al.* 1978b

Saccolabium longifolium Hook. f.

38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

Acanthephippium Blume

15 ; tropical Asia to Fiji. 3 ; Eastern Himalaya, and Nepal and Sri Lanka

nicolor Lindl.

48 Puttalingaiah & Rangaswamy, V. 1979

striatum Lindl.

40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
48 Biswas, B.K. 1980c

syhetense Lindl.

40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

Aerides Lour.

40 ; India, Indo-China, Japan and Malaysia (excluding New Guinea). 12 ; mostly in the Himalaya and Western Ghats, and Nepal, Bangla Desh and Sri Lanka.

biswasianum Mukherji & Ghosh

38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

crispa Lindl.

38 Chardard, R. 1963 ; Kulkarni, H. & Jorapur, S.M. 1979

maculosum Lindl.

38 Jones, K. 1967 ; Kulkarni, H. & Jorapur, S.M. 1979

multiflora Roxb.

38 Arora, C.M. 1968 ; Vij, S.P. &

Mehra, P.N. 1976 ; Mehra, P.N. & Kashyap, S.K. 1979

affinis Wall.

22, 37, 40 Sharma, A.K. & Chatterji, A.K. 1960

odorata Lour.

38 Shindo, K. & Kamemoto, H. 1963a ; Jones, K. 1967 ; Arora, C.M. 1968 ; Vij, S.P., Arora, A. & Nanda, U.S. 1976 ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Sehgal, R.N. 1980

38, 76 Kamemoto, H. *et al.* 1964

ringens Fisch.

38 Kulkarni, H. & Jorapur, S.M. 1979

uniflora (Lindl.) Summerh.*longicornu* Hook. f.

38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

vandaram Reichb. f.

38 Chardard, R. 1963 ; Vij, S.P. & Mehra, P.N. 1976

williamsii Warner

38 Jones, K. 1967

feldingii Lodd.

38 Kamemoto, H. *et al.* 1964

Agrostophyllum Blume

60 ; Seychelles to Malaysia and Polynesia. 4 ; Eastern Himalaya, and Bhutan.

brevipeta King & Pantl.

40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

callosum Reichb. f.

38 Chatterji, A.K. 1964-1965 ; Mehra, P.N. & Sehgal, R.N. 1978
40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

absalonum Griff.

40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
c.48 Mehra, P.N. & Sehgal, R.N. 1980

myrianthum King & Pantl.

40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

Anoectochilus Blume

25 ; tropical Asia, Australia and Polynesia. 18 ; chiefly in Eastern Himalaya, and Bhutan, Bangla Desh and Sri Lanka.

brevilabris Lindl.

40 Mehra, P.N. & Sehgal, R.N. 1974

rozburghii Lindl.

30 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

sikkimensis King & Pantl.

30 Mehra, P.N. & Vij, S.P. 1970, 1972a

Anthogonium Wall. *ex* Lindl.

1 ; Eastern Himalaya (up to 2,500 m) to South West China and Siam.

gracile Lindl.

38 Mehra, P.N. & Sehgal, R.N. 1978, 1980
40 Mehra, P.N. & Vij, S.P. 1970
42 Chatterji, A.K. 1968
54 Sharma, A. & Sarkar, A.K. 1967-1968 ; Roy, S.C. & Sharma, A.K. 1972

'pink flowered'

40 Vij, S.P. & Mehra, P.N. 1976

'white flowered'

40 Vij, S.P. & Mehra, P.N. 1976

Arundina Blume

10 (probably 1 variable species) ; Sri Lanka, South East Asia, Indo-Malesia (excluding Philippines and New Guinea) and Tahiti. Temperate Himalaya, Assam Hills, Manipur and Western Ghats, and Nepal, Bangla Desh and Sri Lanka.

graminifolia (Don) Hochr.

32 Pancho, J.V. 1965a

- 40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

bambusifolia (Roxb.) Lindl.

- 40 Sharma, A.K. & Chatterji, A.K. 1961 ; Mehra, P.N. & Sehgal, R.N. 1980
42 Mehra, P.N. & Sehgal, R.N. 1975

sinensis Blume*

- 40 Mehra, P.N. & Sehgal, R.N. 1976 ; Biswas, B.K. 1980b

Ascocentrum Schlecht.

5 ; tropical South East Asia to Philippine Islands, Celebes and Java. 2 ; Himalaya, Western Ghats and Andaman Islands, also cultivated.

micranthum (Lindl.) Holtt.

- 38 Kamemoto, H. *et al.* 1964 ; Tara, M. & Kamemoto, H. 1970 ; Vij, S.P., Arora, A. & Nanda, U.S. 1976 ; Vij, S.P. & Mehra, P.N. 1976

Cleistanthum micranthum (Lindl.) King & Pantl.

- 38 Mehra, P.N. & Vij, S.P. 1970 ; Mehra, P.N. & Kashyap, S.K. 1976 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976 ; Mehra, P.N. & Sehgal, R.N. 1980

miniatum (Lindl.) Schlecht.

- c.38 Jones, K. 1976
38 Kamemoto, H. *et al.* 1964 ; Pascho, J.V. 1965a ; Tara, M. & Kamemoto, H. 1970

Biermannia King & Pantl.

2 ; India and China. 1 ; Sikkim.

bimaculata King & Pantl.

- 36 Mehra, P.N. & Sehgal, R.N. 1978

Brachycorythis Lindl.

32 ; tropics and South Africa, and tropical Asia. 7 ; chiefly in Assam and South India Hills, and Nepal.

galeandra (Reichb. f.) Summerh.

Habenaria galeandra Benth.

- c.42 Mehra, P.N. & Bawa, K.S. 1962, 1970
42 Vij, S.P., Arora, A. & Nanda, U.S. 1976

Phyllomphax obcordata (D. Don) Schlecht.

var. *major*

- 42 Mehra, P.N. & Sehgal, R.N. 1974
46 Mehra, P.N. & Sehgal, R.N. 1976

obcordata (Lindl.) Summerh.

- 42 Mehra, P.N. & Kashyap, S.K. 1978

Phyllomphax obcordata Schlecht.

- 38 Jorapur, S.M. 1980

Bulbophyllum Thou.

About 900 ; tropics and South temperate zone. 52 ; chiefly in Eastern Himalaya, and Nepal, Bhutan and Sri Lanka.

affine Lindl.

- 40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

bisetum Lindl.

- 40 Biswas, B.K. 1980c

careyanum Spreng.

- 38 Mehra, P.N. & Sehgal, R.N. 1980
38+B Mehra, P.N. & Vij, S.P. 1970
38+2B Vij, S.P. & Mehra, P.N. 1976

caudatum Lindl.

- 38 Mehra, P.N. & Sehgal, R.N. 1980

cauliflorum Hook. f.

- 42 Mehra, P.N. & Sehgal, R.N. 1978

clarkeyanum King & Pantl.

- 38 Mehra, P.N. & Vij, S.P. 1970

cylindraceum Lindl.

- 38 Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Sehgal, R.N. 1980

* *Arundina sinensis* Blume does not occur wild in the Indian subcontinent.

- 40 Mehra, P.N. & Vij, S.P. 1970
42 Biswas, B.K. 1980c
- densiflorum** Rolfe
38 Arora, C.M. 1971
- eublepharum** Reichb. f.
38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Sehgal, R.N. 1980
- gambelii** Hook. f.
38 Vij, S.P. & Mehra, P.N. 1976
40 Mehra, P.N. & Vij, S.P. 1970
- griffithii** Reichb. f.
38 Mehra, P.N. & Sehgal, R.N. 1975
- gymnopus** Hook. f.
38 Mehra, P.N. & Sehgal, R.N. 1974
- khasianum** Griff.
40 Mehra, P.N. & Sehgal, R.N. 1980
- leopoldinum** Lindl.
36 Mehra, P.N. & Sehgal, R.N. 1975
38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976 ; Biswas, B.K. 1980c
- leptanthum** Hook. f.
38 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976
- mysorensis** (Rolfe) J.J. Smith
Cirrhopetalum mysorensis Rolfe
c.38 Daker, M.G. 1970
- nellgherrensis** Wight
40 Jorapur, S.M. & Hegde, S.N. 1974
- odoratissimum** Lindl.
38 Chardard, R. 1963
58 Malla, S.B., Bhattarai, S. *et al.* 1977a
- penicillium** Par. & Reichb. f.
38 Mehra, P.N. & Sehgal, R.N. 1978
- polyrhizum** Lindl.
38 Arora, C.M. 1971
- protractum** Hook. f.
38 Biswas, B.K. 1980c
- rau** Arora
40 Mehra, P.N. & Kashyap, S.K. 1979
- refractoides** Seidenf.
38 Arora, C.M. 1971
- reptans** Lindl.
38 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976 ; Mehra, P.N. & Kashyap, S.K. 1978
38 + 0 1B Mehra, P.N. & Sehgal, R.N. 1975
42 Chatterji, A.K. 1976
- retusiusculum** Reichb. f.
38 Mehra, P.N. & Sehgal, R.N. 1980
- secundum** Hook. f.
40 Mehra, P.N. & Vij, S.P. 1970
- striatum** Reichb. f.
38 Mehra, P.N. & Sehgal, R.N. 1974
- triste** Reichb. f.
38 Vij, S.P., Arora, A. & Nanda, U.S. 1976 ; Arora, C.M. 1971
- umbellatum** Lindl.
38 Mehra, P.N. & Kashyap, S.K. 1978
- viridiflorum** (Hook. f.) Schiecht.
Cirrhopetalum viridiflorum Hook. f.
38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
- wallichii** (Lindl.) Reichb. f.
Cirrhopetalum wallichii Lindl.
38 Mehra, P.N. & Vij, S.P. 1970
- Calanthe** R. Br.
120 ; warm regions. 26 ; mostly in Himalaya (up to 3,000 m), and Nepal and Sri Lanka.
- aliamifolia** Lindl.
40 Vij, S.P., Arora, A. & Nanda, U.S. 1976
44 Sharma, A. & Sarkar, A.K. 1967-1968 ; Roy, S.C. & Sharma, A.K. 1972
- alpina** Hook. f.
40 Mehra, P.N. & Vij S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
- biloba** Lindl.
38 Sharma, A. & Sarkar, A.K. 1967-1968 ; Ray, S.C. & Sharma, A.K. 1972

- 40 Vij, S.P. & Mehra, P.N. 1976
 80 Mehra, P.N. & Vij, S.P. 1970
- brevicornu* Lindl.
 40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
 48 Sharma, A. & Sarkar, A.K. 1967-1968 ; Roy, S.C. & Sharma, A.K. 1972
- chloroleuca* Lindl.
 28 Sharma, A. & Sarkar, A.K. 1967-1968 ; Roy, S.C. & Sharma, A.K. 1972
 40 Mehra, P.N. & Sehgal, R.N. 1975
- clavata* Lindl.
 40 Mehra, P.N. & Sehgal, R.N. 1974
- herbacea* Lindl.
 40 Mehra, P.N. & Sehgal, R.N. 1976
 40+2B Mehra, P.N. & Vij, S.P. 1970
 42 Mehra, P.N. & Pal, Y. 1961 ; Roy, S.C. & Sharma, A.K. 1972 ; Vij, S.P. & Mehra, P.N. 1976
- mannii* Hook. f.
 40 Mehra, P.N. & Sehgal, R.N. 1974 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976 ; Mehra, P.N. & Kashyap, S.K. 1979
- masuca* Lindl.
 40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
 42 Mehra, P.N. & Sehgal, R.N. 1976
 52 Sharma, A. & Sarkar, A.K. 1967-1968 ; Roy, S.C. & Sharma, A.K. 1972
- plantaginea* Lindl.
 40 Arora, C.M. 1968
- puberula* Lindl.
 40 Mehra, P.N. & Sehgal, R.N. 1976
 42 Roy, S.C. & Sharma, A.K. 1972
- tricarinata* Lindl.
 40 Mehra, P.N. & Bawa, K.S. 1962, 1970 ; Tanaka, R. 1965b ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Kashyap, S.K. 1979
 40, 60 Mutsaers, O. & Nakahira, R. 1958 (Tanaka, R. 1965b)
 42 Sharma, H. & Sarkar, A.K. 1967-
- 1968 ; Roy, S.C. & Sharma, A.K. 1972
- triplicata* (Willem.) Ames
veratrifolia R. Br.
 40 Arora, C.M. 1960 ; Pancho, J.V. 1965a
- trolliformis* King & Pantl.
 40 Mehra, P.N. & Vij, S.P. 1970
- Camarotis* Lindl.
 12 ; South East Asia, Indo Malesia, Solomon Islands and Australia. 3 ; Eastern Himalaya.
mannii King & Pantl.
 38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
- obtusa* Lindl.
 38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
- Cephalanthera* Rich.
 14 ; North temperate. 1 ; temperate Himalaya (between 2,000 and 4,000 m), and Bhutan.
ensifolia Rich.
 32 Mehra, P.N. & Vij, S.P. 1970, 1972a
 34 Mehra, P.N. & Bawa, K.S. 1962, 1970 ; Vij, S.P. & Gupta, G.C. 1975 ; Mallik, S.B., Bhattarai, S. *et al.* 1978a
- Ceratostylis* Blume
 60 ; Indo - Malesia and Polynesia. 2 ; Eastern tropical Himalaya and Assam, and Bhutan.
bimalalea Hook. f.
Ritata himalaleum King & Pantl.
 38 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976
- Cheirostylis* Blume
 22 ; tropical Africa, Asia and Pacific.

4 ; Khasi Hills, Nilgiri Hills, and Konkan, and Bhutan and Sri Lanka.

griffithii Lindl.

26 Mehra, P.N. & Sehgal, R.N. 1975

Chiloschista Lindl.

5 ; Indo-Malesia, 4 ; Eastern Himalaya and South Indian Hills, and Nepal and Sri Lanka.

lunifera J.J. Smith

35 Kamemoto, H., Sagarik, R. & Kasemsap, S. 1964

Sarcochilus luniferus Benth. ex Hook. f.

38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

uneoides (Don) Lindl.

38 Tara, M. & Kamemoto, H. 1970

Cirrhopetalum Lindl.

About 66 ; tropical Africa, Mascarenes, Indo-Malesia to Tahiti. 24 ; chiefly in Eastern Himalaya and Western Ghats, and Nepal, Bhutan and Sri Lanka.

andersonii Hook. f.

38 Daker, M.G. 1970

caespitosum Wall.

40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

cornutum Lindl.

38 Arora, C.M. 1971

maculosum Lindl.

38 Chatterji, A.K. 1968 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976 ; Vij, S.P. & Mehra, P.N. 1976

ornatissimum Reichb. f.

c.38 Daker, M.G. 1970
38-40 Chardard, R. 1963

parrakum Hook. f.

38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

vaginatum Lindl.

38 Daker, M.G. 1970

caudatum Wight

38 Mehra, P.N. & Vij, S.P. 1970
40 Vij, S.P. & Mehra, P.N. 1976

viridiflorum Hook. f.

38 + 0-38 Mehra, P.N. & Kashyap, S.K. 1978

Coelogyne Lindl.

About 200 ; Western China, Indo-Malesia and Pacific. 31 ; confined to the Himalaya and Western Ghats, and Nepal, Bhutan, Bangla Desh and Sri Lanka.

barbata Lindl. ex Griff.

40 Chardard, R. 1963 ; Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Sehgal, R.N. 1980

breviscapa Lindl.

40 Hegde, S.N. & Boraiah, G. 1972b

corymbosa Lindl.

38 Sharma, A.K. & Chatterji, A.K. 1961 ; Mehra, P.N. & Sehgal, R.N. 1980
40 Mehra, P.N. & Vij, S.P. 1970

cristata Lindl.

40 Mehra, P.N. & Vij, S.P. 1970 ; Tanaka, R. 1971 ; Arp, G.K. 1973b ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976 ; Mehra, P.N. & Kashyap, S.K. 1978
40, 80 Vij, S.P. & Mehra, P.N. 1976

elata Lindl.

40 Mehra, P.N. & Vij, S.P. 1970 ; Arora, C.M. 1971 ; Vij, S.P. & Mehra, P.N. 1976
44 Sharma, A. & Sarkar, A.K. 1967-1968 ; Roy, S.C. & Sharma, A.K. 1972

flaccida Lindl.

40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Sehgal, R.N. 1980

flavida Wall.

40 Mehra, P.N. & Pal, Y. 1961

flavida Hook. f.

- 40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

fuscescens Lindl.

- 40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

longipes Lindl.

- 40 Mehra, P.N. & Vij, S.P. 1970 ; Mehra, P.N. & Sehgal, R.N. 1980 ; Vij, S.P. & Mehra, P.N. 1976
42 Mehra, P.N. & Pal, Y. 1961

micranthum Lindl.

- 42 Mehra, P.N. & Sehgal, R.N. 1974

occultata Hook. f.

- 38 Mehra, P.N. & Sehgal, R.N. 1978
40 Mehra, P.N. & Vij, S.P. 1970
76 Mehra, P.N. & Sehgal, R.N. 1974

ochracea Lindl.

- 40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

ovalls Lindl.

- 40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Sehgal, R.N. 1980

fimbriata Lindl.

- 40 Hoffmann, K.M. 1929, 1930
40+1f Mehra, P.N. & Sehgal, R.N. 1976

prolifera Lindl.

- 40 Mehra, P.N. & Sehgal, R.N. 1974 ; Vij, S.P., Arora, A. & Nanda, U.S. 1976

punctulata Lindl.

- 38+0-2B Mehra, P.N. & Sehgal, R.N. 1974

stricta (D. Don) Schlecht.

- 40 Mehra, P.N. & Kashyap, S.K. 1978

Corallorhiza Chatel.

- 15 ; North temperate. 1 ; Kasmir.

innata R. Br.

- 42 Miduno, T. 1940 ; Hagerup, O. 1941b

Corybas Salisb.

- 50 ; Indo-Malesia, Solomon Islands, Australia and New Zealand. 2 ; Himalaya.

purpureus J. Joseph

- 40 Mehra, P.N. & Sehgal, R.N. 1978

Cottonia Wight

- 1 ; Western Ghats, and Sri Lanka.

peduncularia (Lindl.) Reichb. f.

- 38 Hegde, S.N. & Jorapur, S.M. 1977 ; Jorapur, S.M. & Hedge, S.N. 1980

macrostachya Wight

- 40 Chatterji, A.K. 1978

Cremastra Lindl.

- 7 ; East Asia. 1 ; temperate Himalaya, and Nepal.

appendiculata (D. Don) Makino

wallichiana Lindl.

- 50 Vij, S.P. & Mehra, P.N. 1976
52 Mehra, P.N. & Vij, S.P. 1970

Cryptochilus Wall.

- 2 ; Himalaya (up to 2,000 m), and Nepal and Bhutan.

lutea Lindl.

- 38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

sanguinea Wall.

- 38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Sehgal, R.N. 1980

Cymbidium Swartz

- 40 ; tropical Asia and Australia. 21 ; chiefly in tropical and subtropical Eastern Himalaya, and Nepal, Bhutan, and Sri Lanka.

bicolor Lindl.

- 40 Swamy, B.G.L. 1941

cochleare Lindl.

- 40 Wimber, D.E. 1957 (Duncan, R.E. 1959); Vij, S.P. & Mehra, P.N. 1976

Cyperorchis cochleare Benth.

- 40 Mehra, P.N. & Vij, S.P. 1970

cyperifolium Wall.

- 40 Biswas, R.K. 1980c
42 Mehra, P.N. & Sehgal, R.N. 1978

devonianum Paxt.

- 40 Wimber, D.E. 1957 (Duncan, R.E. 1959); Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976

eburneum Lindl.

- 40 Mehlquist, G.A.L. 1953; Wimber, D.E. 1957 (Duncan, R.E. 1959); Vij, S.P. & Mehra, P.N. 1976

Cyperorchis eburnea (Lindl.) Schlecht.

- 40 Mehra, P.N. & Vij, S.P. 1970

var. *dayanum* (Reichb. f.) Hook. f.*simonsianum* King & Pantl.

- 40 Wimber, D.E. 1957 (Duncan, R.E. 1959)

elegans (Blume) Lindl.

- 40 Vij, S.P. & Mehra, P.N. 1976

Cyperorchis elegans Blume

- 40 Mehra, P.N. & Vij, S.P. 1970; Mehra, P.N. & Sehgal, R.N. 1980

ensifolium Swartz

- 40 Mehlquist, G.A.L. 1949, 1952 (Duncan, R.E. 1959); Wimber, D.E. 1957; Tanaka, R. 1965b

munronianum King & Pantl.

- 40 Sharma, A. K. & Chatterji, A.K. 1958

gigantenum Wall.

- 40 Mehlquist, G.A.L. 1952 (Duncan, R.E. 1959); Wimber, D.E. 1957 (Duncan, R.E. 1959); Vij, S.P., Gupta, G.C. & Garg, A.K. 1976; Malla, S.B., Saiju, H. et al. 1977; Mehra, P.N. & Kashyap, S.K. 1978; Mehra, P.N. & Sehgal, R.N. 1980

grandiflorum Griff.

- 40 Mehlquist, G.A.L. 1953; Wimber,

D.E. 1957 (Duncan, R.E. 1959); Vij, S.P. & Mehra, P.N. 1976

Cyperorchis grandiflora (Griff.) Schlecht.

- 40 Mehra, P.N. & Vij, S.P. 1970; Mehra, P.N. & Sehgal, R.N. 1978

lanceifolium Hook.

- 38 Mehra, P.N. & Sehgal, R.N. 1976, 1978; Vij, S.P., Arora, A. & Nanda, U.S. 1976
40 Wimber, D.E. 1957 (Duncan, R.E. 1959); Chardard, R. 1963; Chatterji, A.K. 1976

longifolium D. Don

- 40 Vij, S.P. & Mehra, P.N. 1976
42 Roy, S.C. & Sharma, A.K. 1972

Cyperorchis longifolia (Don) Schlecht.

- 40 Mehra, P.N. & Vij, S.P. 1970

lowianum Reichb. f.

- 18-20 Suessenguth, K. 1921a
20 Mehlquist, G.A.L. 1949
40 Hoffmann, K.M. 1929, 1930; Mehlquist, G.A.L. 1953; Wimber, D.E. 1957 (Duncan, R.E. 1959); Sharma, A.K. & Chatterji, A.K. 1961; Arp, G.K. 1973b
44 Sharma, A. & Sarkar, A.K. 1967-1968; Roy, S.C. & Sharma, A.K. 1972

macrorhizon Lindl.

- 38 Mehra, P.N. & Sehgal, R.N. 1978

mastersii Griff. ex Lindl.

- 40 Wimber, D.E. 1957 (Duncan, R.E. 1959)

Cyperorchis mastersii Benth.

- 40 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976

pendulum Swartz

- 40 Sharma, A. & Sarkar, A.K. 1967-1968; Mehra, P.N. & Vij, S.P. 1970; Roy, S.C. & Sharma, A.K. 1972; Vij, S.P. & Mehra, P.N. 1976; Mehra, P.N. & Sehgal, R.N. 1980

simulans Rolfe*aloifolium* Swartz

- 32 Sampathkumaran & Rangaswamy (Duncan, R.E. 1959)

- 38, 40, 50 Sharma, A.K. & Chatterji, A.K. 1960
 40 Mehlquist, G.A.L. 1952 (Duncan, R.E. 1959); Nakasone, H.Y. & Moromizato, S. 1964; Mehra, P.N. & Vij, S.P. 1970; Sarkar, A.K., Datta, N. *et al.* 1976; Vij, S.P. & Mehra, P.N. 1976; Biswas, B.K. 1980b

tracyanum Hort. ex O'Brien

- 20 Mehlquist, G.A.L. 1949 (Duncan, R.E. 1959)
 40 Mehlquist, G.A.L. 1953; Wimber, D.E. 1957 (Duncan, R.E. 1959); Vij, S.P., Arora, A. & Nanda, U.S. 1976

whiteae King & Pantl.

- 40 Wimber, D.E. 1957 (Duncan, R.E. 1959)

Cyrtopodium Linn.

50; North temperate. 5; Himalaya (up to 4,660 m) and Southern India, and Bangla Desh.

cordigerum D. Don

- 20 Mehra, P.N. & Bawa, K.S. 1962, 1970; Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Gupta, G.C. 1975; Mehra, P.N. & Kashyap, S.K. 1978; Mehra, P.N. & Pandita, T.K. 1979

20

(variations

24, 30, 40,

c.80,

polysomaty

& aneu-

sonaty) Vij, S.P. & Mehra, P.N. 1974

elegans Reichb. f.

- 20 Roy, S.C. & Sharma, A.K. 1972

himalaicum Rolfe

- 20 Vij, S.P. & Mehra, P.N. 1974; Mehra, P.N. & Kashyap, S.K. 1978
 30 Kumar, V. & Chauhan, K.P.S.

Dactylorhiza Neck. ex Nevski

30; Atlantic Islands, North Africa, temperate Eurasia and Alaska. About 2; Western temperate Himalaya, and Nepal.

batagirea (D. Don) Sob

- 40 Mehra, P.N. & Pandita, T.K. 1978

Dendrobium Swartz

About 1,400; tropical Asia to Polynesia and Australasia. 76; mostly in Himalaya, and Nepal, Pakistan, Bhutan, Bangla Desh and Sri Lanka - a few cultivated.

aciniaciforme Roxb.

- 38 Mehra, P.N. & Sehgal, R.N. 1975

amoenum Wall. ex Lindl.

- 38 Jones, K. 1963
 40 Mehra, P.N. & Vij, S.P. 1970; Arora, C.M. 1971; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976; Vij, S.P. & Mehra, P.N. 1976

anceps Swartz

- 38 ÷ 0-2B Mehra, P.N. & Vij, S.P. 1970
 38 + 0-6B Vij, S.P. & Mehra, P.N. 1976

aphyllum (Roxb.) Fisch.

- 38 Jones, K. 1963; Mehra, P.N. & Kashyap, S.K. 1979; Mehra, P.N. & Sehgal, R.N. 1980

pterardii Roxb.

- 38 Kosaki, K. 1958 (Chardard, R. 1963); Vajrabhaya, T. & Randolph, L.F. 1960; Kamemoto, H. & Sagarik, R. 1967; Vij, S.P. & Mehra, P.N. 1976; Sarkar, A.K., Datta, N. & Chatterjee, U. 1978
 38-40 Chardard, R. 1963
 40 Banerjee, M. & Chaudhuri, M. 1971; Roy, S.C. & Sharma, A.K. 1972

aquum Lindl.

- 38 Jones, K. 1963; Hedge, S.N. & Boraiab, G. 1973

aurantiacum Reichb. f.

- 38 Banerji, M. & Chaudhuri, M. 1972

aureum Lindl.

heterocarpum Wall. ex Lindl.

- 38 Kosaki, K. 1958 (Duncan, R.E. 1959); Vajrabhaya, T. & Randolph, L.F. 1960; Kosaki, K. & Kamemoto, H. 1961; Jones, K. 1963; Pancho,

- J.V. 1965a; Kamemoto, H. & Sagarik, R. 1967; Wilfret, G.J. & Kamemoto, H. 1971; Banerji, M. & Chaudhuri, M. 1972
40 Mehra, P.N. & Sehgal, R.N. 1976
- bicameratum** Lindl.
38 Jones, K. 1963; Banerjee, M. & Chaudhuri, M. 1971; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976; Vij, S.P. & Mehra, P.N. 1976; Mehra, P.N. & Kashyap, S.K. 1978
40 Arora, C.M. 1968
- candidum** Wall. ex Lindl.
38 Malla, S.B., Bhattarai, S. *et al.* 1977a
- cariniferum** Reichb. f.
38 Kosaki, K. & Kamemoto, H. 1961; Kamemoto, H. & Sagarik, R. 1967
- caudicatif** Hook. f.
38 Mehra, P.N. & Vij, S.P. 1970
- chrysanthum** Wall.
38 Vajrabhaya, T. & Randolph, L.F. 1960; Kosaki, K. & Kamemoto, H. 1961; Jones, K. 1963; Kamemoto, H. & Sagarik, R. 1967; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976; Vij, S.P. & Mehra, P.N. 1976
40 Banerjee, M. & Chaudhuri, M. 1971; Mehra, P.N. & Sehgal, R.N. 1976; Mehra, P.N. & Kashyap, S.K. 1978
- chrysotozum** Lindl.
38 Jones, K. 1963; Kosaki, K. & Kamemoto, H. 1961; Kamemoto, H. & Sagarik, R. 1967; Wilfret, G.J. & Kamemoto, H. 1971; Vij, S.P. & Mehra, P.N. 1976
40 Hoffmann, K.M. 1929, 1930; Ito, I. & Matsuura, S. 1957 (Chardard, R. 1963); Chardard, R. 1963
- clavatum** Wall.
38 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976; Malla, S.B., Bhattarai, S. *et al.* 1978b
- crepidatum** Lindl. & Paxt.
38 Jones, K. 1963; Kamemoto, H. & Sagarik, R. 1967; Hedge, S.N. & Boraiab, G. 1973
- cretaceum** Lindl.
38+1f Jones, K. 1963
- cruentum** Reichb. f.
38+1B Vij, S.P., Arora, A. & Nanda, U.S. 1976
40 Kamemoto, H. & Sagarik, R. 1967
- crumenatum** Swartz
38 Kamemoto, H. & Sagarik, R. 1967; Wilfret, G.J. & Kamemoto, H. 1971
38+1f Jones, K. 1963
40 Pancho, J.V. 1965a
- crystallinum** Reichb. f.
38 Jones, K. 1963; Kamemoto, H. & Sagarik, R. 1967
- densiflorum** Wall.
38 Banerjee, M. & Chaudhuri, M. 1971
40 Kosaki, K. & Kamemoto, H. 1961; Mehra, P.N. & Sehgal, R.N. 1976
40+0-2B Vij, S.P. & Mehra, P.N. 1976
40+1-2B Mehra, P.N. & Vij, S.P. 1970
42 Chatterji, A.K. 1976
- thrysiflorum** Reichb. f.
40 Hoffman, K.M. 1929, 1930; Vajrabhaya, T. & Randolph, L.F. 1960; Kosaki, K. & Kamemoto, H. 1961; Kamemoto, H. & Sagarik, R. 1967; Vij, S.P. & Mehra, P.N. 1976
- denudans** D. Don
40 Jones, K. 1963; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976; Vij, S.P. & Mehra, P.N. 1976
- devonianum** Paxt.
38 Chardard, R. 1963; Banerji, M. & Chaudhuri, M. 1972
- epiphedum** Lindl.
40 Vij, S.P., Arora, A. & Nanda, U.S. 1976
- farmeri** Paxt.
40 Kamemoto, H. & Sagarik, R. 1967; Banerji, M. & Chaudhuri, M. 1972
- formosum** Roxb.
38 Ito, I. & Matsuura, O. 1957 (Duncan, R.E. 1959); Kosaki, K. & Kamemoto, H. 1961; Shindo, K. &

- Kamemoto, H. 1963b ; Banerji, M. & Chaudhuri, M. 1972
- gibbaei* Lindl.
 38 Vajrabhaya, T. & Randolph, L.F. 1960 ; Banerjee, M. & Chaudhuri, M. 1971 ; Vij, S.P. & Mehra, P.N. 1976
- hookerianum* Lindl.
 40 Jones, K. 1963 ; Mehra, P.N. & Sehgal, R.N. 1976, 1980
- infundibulum* Lindl.
 38 Jones, K. 1963 ; Kamemoto, H. & Sagarik, R. 1967 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976
 40 Hoffman, K.M. 1929, 1930
- lawianum* Lindl.
 38 Hedge, S.N. & Boraiah, G. 1973
- lindleyi* Steud.
aggregatum Roxb.
 32-35 Chardard, R. 1963
 38 Kosaki, K. 1958 (Duncan, R.E. 1959) ; Vajrabhaya, T. & Randolph, L.F. 1960 ; Kamemoto, H. & Sagarik, R. 1967 ; Wilfret, G.J. & Kamemoto, H. 1971
- lituiflorum* Lindl.
 38 Jones, K. 1963 ; Kamemoto, H. & Sagarik, R. 1967 ; Banerjee, M. & Chaudhuri, M. 1971
- longicornu* Lindl.
 38 Jones, K. 1963 ; Mehra, P.N. & Sehgal, R.N. 1976 ; Vij, S.P. & Mehra, P.N. 1976 ; Malla, S.B., Bhattarai, S. *et al.* 1977a ; Mehra, P.N. & Sehgal, R.N. 1980
- mabelae* Gammie
 38 Jorapur, S.M. & Kulkarni, A.L. 1980
- macrostachyum* Lindl.
 38 Jones, K. 1963 ; Wilfret, G.J. & Kamemoto, H. 1971 ; Hedge, S.N. & Boraiah, G. 1973
 40 Arora, C.M. 1971
- microbulbon* A. Rich.
 38 Jorapur, S.M. & Kulkarni, A.L. 1980
- monticola* P.F. Hunt & Summerh.
alpestre Royle
 40 Arora, C.M. 1968 ; Mehra, P.N. & Kashyap, S.K. 1976 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976
- moschatum* Wall.
 38 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976
 40 Banerjee, M. & Chaudhuri, M. 1971
- nobile* Lindl.
 38 Miduno, T. 1940 ; Vajrabhaya, T. & Randolph, L.F. 1960 ; Kamemoto, H. & Sagarik, R. 1967 ; Banerjee, M. & Chaudhuri, M. 1971 ; Banerji, M. & Chaudhuri, M. 1972 ; Tanaka, R. 1971 ; Vij, S.P. & Mehra, P.N. 1976
 38, 40 Chardard, R. 1963
 38, 57 Jones, K. 1963
 38, 76 Ito, I. & Mitsuura, O. 1957 (Duncan, R.E. 1959)
 40 Eftimiu-Heim, P. 1941 (Duncan, R.E. 1959)
- normale* Falc.
 38 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976
- nutans* Lindl.
Geodarum nutans (Presl) Ames
 36 Pancho, J.V. 1965a
- ovatum* Kranz.
 40 Jones, K. 1963
- palpebrae* Lindl.
 40 Jones, K. 1963
- parishii* Reichb. f.
 38 Jones, K. 1963 ; Kamemoto, H. & Sagarik, R. 1967
 40 Ito, I. & Mitsuura, O. 1957 (Duncan, R.E. 1959) ; Banerjee, M. & Chaudhuri, M. 1971 ; Chatterji, A.K. 1976
- pendulum* Roxb.
wardianum Warner
 38 Mehra, P.N. & Sehgal, R.N. 1976
- var. *giganteum*
 40 Hoffmann, K.M. 1929, 1930

pilicatula Lindl.

fimbriatum Hook.

- 38 Ito, I. & Mitsuura, O. 1957 (Duncan, R.E. 1959); Kosaki, K. & Kamemoto, H. 1961; Jones, K. 1963; Kamemoto, H. & Sagarik, R. 1967; Vij, S.P. & Mehra, P.N. 1976

38+2B Vij, S.P., Arora, A. & Nanda, U.S. 1976

- 40 Arora, C.M. 1971; Banerjee, M. & Chaudhuri, M. 1971

var. *oculatum* Hook.

- 38 Mehra, P.N. & Sehgal, R.N. 1980

porphyrochilum Lindl.

- 38 Mehra, P.N. & Sehgal, R.N. 1975

prismallum Lindl.

- 38 Ito, I. & Mitsuura, O. 1957 (Duncan, R.E. 1959); Jones, K. 1963; Kamemoto, H. & Sagarik, R. 1967; Mehra, P.N. & Vij, S.P. 1970; Mehra, P.N. & Kashyap, S.K. 1976

40 Banerjee, M. & Chaudhuri, M. 1971

- 57 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

regium Prain

- 38 Jones, K. 1963

superbium Reichb. f.

- 38 Vajrabhaya, T. & Randolph, L.F. 1960; Jones, K. 1963; Kamemoto, H., Shindo, K. & Kosaki, K. 1964; Vij, S.P., Arora, A. & Nanda, U.S. 1976

transparentum Wall.

- 38 Mehra, P.N. & Sehgal, R.N. 1980

40 Mehra, P.N. & Vij, S.P. 1970; Roy, S.C. & Sharma, A.K. 1972; Vij, S.P. & Mehra, P.N. 1976

williamsonii Day & Reichb. f.

- 57 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

sp.

- 40 Chatterji, A.K. 1976

sp.

- 42 Chatterji, A.K. 1976

Diplocentrum Lindl.

- 2; South Western India.

congestum Wight

- 38 Kulkarni, H. & Jorapur, S.M. 1979

recurvum Lindl.

- 38 Kulkarni, H. & Jorapur, S.M. 1979

Diplomeris D. Don

- 3; Himalaya, and Nepal and Bhutan.

hirsuta Lindl.

- 42 Mehra, P.N. & Kashyap, S.K. 1976; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

Diploprora Hook. f.

- 5; tropical Asia. 1; Khasi Hills, and Bhutan and Sri Lanka.

championii Hook. f.

- 38 Kamemoto, H., Sagarik, R. & Kasemasa, S. 1964

Doritis Lindl.*

taenialis Benth.

- 38 Vij, S.P. & Mehra, P.N. 1976

40 Sharma, A. & Sarker, A.K. 1967-1968; Roy, S.C. & Sharma, A.K. 1972

- 40, 60 Chatterji, A.K. 1964-1965

Ephemerantha P.F. Hunt & Summerh.

- 70; tropical Asia to Oceania. 3; Eastern Himalaya and Western Ghats, and Sri Lanka.

*Of the two species of *Doritis* described in FBI, 6: 31-32, *D. wightii* Benth. is a synonym of *Phalaenopsis decumbens* Holtt. whereas the other species, *D. taenialis*, FBI, 6: 31 is a synonym of *Kingidium taenialis* (Lindl.) P.F. Hunt.

macraei (Lindl.) P.F. Hunt & Summerh.

40 Mehra, P.N. & Sehgal, R.N. 1980

Dendrobium macraei Lindl.

38 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P., Arora, A. & Nanda, U.S. 1976

Epigeneium Gagnep.

35; East Asia and Indo-Malesia. 3; Eastern Himalaya and Assam, and Nepal.

amplum (Lindl.) Summerh.

40 Malla, S.B., Bhattarai, S. *et al.* 1978b

Dendrobium amplum Lindl.

38 Banerji, M. & Chaudhuri, M. 1972
40 Mehra, P.N. & Vij, S.P. 1970

Katherinea ampla (Lindl.) Hawkes

40 Mehra, P.N. & Sehgal, R.N. 1980

fuscescens Summerh.

Katherinea fuscescens (Griff.) Hawkes

c.76 Mehra, P.N. & Sehgal, R.N. 1978

rotundatum (Lindl.) Summerh.

Dendrobium rotundatum Benth.

40 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976

Epipactis Zinn

24; North temperate zone, South to tropical Africa, Siam and Mexico. 4; temperate Himalaya (up to 4,000 m), and Nepal and Pakistan.

gigantea Dougl. ex Hook.

40 Vij, S.P. & Gupta, G.C. 1975
60 Niehaus, T. & Wong, L. Jr. 1971

royleana Lindl.

40 Mehra, P.N. & Pandita, T.K. 1978

belleboriae (Linn.) Crantz

20, 40 Weijer, J. 1952
38 Gadella, T.W.J. & Kliphuis, E. 1963; Kliphuis, E. 1963; Löve, A. & Löve, D. 1969; Mehra, P.N. & Bawa, K.S. 1970
40 Mehra, P.N. & Pandita, T.K. 1978

latifolia All.

36 Roy, S.C. & Sharma, A.K. 1972
36, 44 Leveque, M. & Gorenflot, R. 1969
38 Barber, H.N. 1942; Skalińska, M. *et al.* 1957; Mehra, P.N. & Bawa, K.S. 1962; Peev, D. 1976
38, 40 Hagerup, O. 1947
38-40 Meili-Frei, E. 1965
40 Hagerup, O. 1945; Skalińska, M. *et al.* 1961; Mehra, P.N. & Vij, S.P. 1970, 1972a; Mehra, P.N. & Kashyap, S.K. 1979
40, 80 Vij, S.P. & Gupta, G.C. 1975
44 Mehra, P.N. & Pal, Y. 1961

verstrifolia Boiss.

40 Arora, C.M. 1968

constimilis Wall.

20, 40 Mehra, P.N. & Vij, S.P. 1972a
40 Mehra, P.N. & Pal, Y. 1961; Mehra, P.N. & Kashyap, S.K. 1979

Epipogium R. Br.

3; temperate Eurasia, tropical Africa, Indo-Malesia and tropical Australia. 2; temperate and tropical Himalaya, and Deccan Peninsula, and Nepal and Sri Lanka.

apbyllum (Schmidt.) Swartz

68 Afzelius, K. 1954; Ubriková, A. & Májovský, J. 1980

Eria Lindl.

About 375; tropical Asia, Polynesia and Australia. 56; chiefly in the Himalaya, and Nepal, Bangla Desh and Sri Lanka.

acervata Lindl.

40 Mehra, P.N. & Sehgal, R.N. 1975

alba Linn.

34 Mehra, P.N. & Sehgal, R.N. 1974
40 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

bambusifolia Lindl.

38 Mehra, P.N. & Sehgal, R.N. 1976

biloba Griff.

- 42 Mehra, P.N. & Sehgal, R.N. 1976 ;
Biswas, B.K. 1978, 1980c

bracteosus Lindl.

- 40 Vij, S.P. & Mehra, P.N. 1976

confusus Hook. f.

- 40 Mehra, P.N. & Sehgal, R.N. 1974

erosaria Reichb. f.

- 34-38,
44-52 Mehra, P.N. & Sehgal, R.N. 1980
36 Chatterji, A.K. 1964-1965 ; Mehra,
P.N. & Vij, S.P. 1970 ; Vij, S.P. &
Mehra, P.N. 1976

eraticusalis Hook. f.

- 38 Mehra, P.N. & Sehgal, R.N. 1976

fulvifolia Lindl.

- 24+5B Jorapur, S.M. & Kulkarni, A.L. 1979
24+10B Jorapur, S.M. & Kulkarni, A.L. 1980

discolor Lindl.*Tylostylis discolor* Hook. f.

- 40 Vij, S.P., Arora, A. & Nanda, U.S.
1976

excavata Lindl.

- 38 Biswas, B.K. 1980c
40 Mehra, P.N. & Vij, S.P. 1970

exilis Hook. f.

- 38 Jorapur, S.M. & Kulkarni, A.L. 1979,
1980

ferruginea Lindl.

- 38 Biswas, B.K. 1980b, c

flava Lindl.

- 38 Biswas, B.K. 1980c
40 Vij, S.P., Gupta, G.C. & Garg, A.K.
1976

graminifolia Lindl.

- 38 Mehra, P.N. & Vij, S.P. 1970 ; Vij,
S.P. & Mehra, P.N. 1976 ; Biswas,
B.K. 1980c

microchilos Lindl.

- 24+5B Jorapur, S.M. & Kulkarni, A.L. 1980
24+9B Jorapur, S.M. & Kulkarni, A.L. 1979

munificola Lindl.

- 36 Mehra, P.N. & Sehgal, R.N. 1976

mysorensis Lindl.

- 38 Jorapur, S.M. & Kulkarni, A.L. 1979,
1980

paniculata Lindl.

- 38 Chardard, R. 1963 ; Mehra, P.N. &
Sehgal, R.N. 1976

pannea Lindl.

- 36 Mehra, P.N. & Vij, S.P. 1970 ; Vij,
S.P. & Mehra, P.N. 1976

reticosa Wight

- 42 Jorapur, S.M. & Kulkarni, A.L.
1979, 1980

spicata (D. Don) Hand. Mazz.

- 38 Mehra, P.N. & Kashyap, S.K. 1978

convallarioides Lindl.

- 36 Chatterji, A.K. 1964-1965
38 Chardard, R. 1963
40 Mehra, P.N. & Vij, S.P. 1970 ; Vij,
S.P. & Mehra, P.N. 1976

Erythrodes Blume

100 ; China, Formosa, Indo-Malesia,
Polynesia and South United States to
Argentina. 3 ; Eastern Himalaya and
Assam, and Bangla Desh and Sri Lanka.

herpysmoides (King & Pantl.) Schlecht.*Physurus herpysmoides* King & Pantl.

- 22 Mehra, P.N. & Sehgal, R.N. 1976

Esmeralda Reichb. f.

3 ; Eastern Himalaya, and Nepal and
Bhutan.

clarkii Reichb. f.*Arachnanthe clarkii* Royle

- 38 Sharma, A. & Sarkar, A.K. 1967-
1968 ; Roy, S.C. & Sharma, A.K.
1972

Eulophia R. Br. ex Lindl.

200 ; palaeotropics. 26 ; chiefly in the
Himalaya and Western Ghats, and Nepal,
Pakistan, Bhutan, Bangla Desh and Sri
Lanka.

dabia (D. Don) Hochr.

campestris Wall.

- 48 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

geniculate King & Pantl.

- 38 Chatterji, A.K. 1965

graminea Lindl.

- 54 Mehra, P.N. & Sehgal, R.N. 1975
56 Biswas, B.K. 1978, 1980c

hormesjii Duthie

- 54 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

macrostachya Lindl.

- 32 Pancho, J.V. 1965a

nuda Lindl.

- 54 Chatterji, A.K. 1965 ; Vij, S.P. & Mehra, P.N. 1976

ramentacea Lindl.

- 54 Kulkarni, H. & Jorapur, S.M. 1979

Galeola Lour.

25 ; Madagascar, Indo-Malesia and Australia. 5 ; Eastern Himalaya and Assam.

falconeri Hook. f.

- 30 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

Gastrochilus D. Don

About 18 ; India, East Asia and West Malaysia. 6 ; chiefly in the Himalaya and Western Ghats.

calceolaris (Smith) D. Don

- 38 Kamemoto, H., Shindo, K. & Kasaki, K. 1964 ; Jones, K. 1967 ; Arora, C.M. 1971 ; Mehra, P.N. & Sehgal, R.N. 1978 ; Mehra, P.N. & Kashyap, S.K. 1979

Saccolabium calceolare Lindl.

- 36-40 Chardard, R. 1963
76 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

dasypogon (Lindl.) O. Kuntze

- 38 Tara, M. & Kamemoto, H. 1970 ; Mehra, P.N. & Sehgal, R.N. 1978
40 Jorapur, S.M. & Hedge, S.N. 1980

distichus (Lindl.) O. Kuntze

Saccolabium distichum Lindl.

- 38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

pumilio Kuntze

Saccolabium pumilio Reicheb. f.

- 38 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

Gastrodia R. Br.

20 ; East Asia and Indo-Malesia to New Zealand (? tropical West Africa). 5 ; Himalaya and Khasi Hills, and Sri Lanka.

elata Blume

- 16, 18 Kusano, S. 1915
24 Hsu, C.-C. 1972

Geodorum Jacks.

16 ; India to Polynesia and Australia. 3 ; tropical Himalaya, Assam, Bengal and Peninsular India, and Nepal, Bangla Desh and Sri Lanka.

densiflorae (Lam.) Schlecht.

- 52 Mehra, P.N. & Sehgal, R.N. 1978
54 Kulkarni, H. & Jorapur, S.M. 1979

purpureum R. Br.

- 52 Biswas, B.K. 1980c

Goodyera R. Br.

40 ; temperate Eurasia, tropical Asia, Australia, Mascarene Islands, Polynesia and temperate North America. 15 ; chiefly in the Himalaya (up to 3,600 m), and Sri Lanka.

biflora Hook. f.

- 30 Malik, C.P. 1961b ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976
32+28 Mehra, P.N. & Kashyap, S.K. 1979

grandis King & Pantl.

- 44 Mehra, P.N. & Sehgal, R.N. 1976

procera Hook.

- 22 Afzelius, K. 1943
42 Miduno, T. 1939 ; Tanaka, R. 1965b, 1971

recurva Lindl.

- 32 Mehra, P.N. & Sehgal, R.N. 1978

repens R. Br.

- 28, 32 Eftimiu-Heim, P. 1941 (Duncan, R.E. 1959)
30 Richardson, M.M. 1935 (Duncan, R.E. 1959) ; Löve, A. & Löve, D. 1942a ; Löve, A. 1954b ; Malik, C.P. 1961b ; Mehra, P.N. & Bawa, K.S. 1962, 1970 ; Kliphuis, E. 1963 ; Löve, A. & Simon, W. 1968 ; Mehra, P.N. & Vij, S.P. 1972a ; Mehra, P.N. & Pandita, T.K. 1979
30, 32 Vij, S.P. & Gupta, G.C. 1975
32 Tanaka, R. 1965b, 1971 ; Schotsman, H.D. 1970
40 Gadella, T.W.J. & Kliphuis, E. 1963

secundiflora Lindl.

- 30 Mehra, P.N. & Sehgal, R.N. 1974
30+1B Mehra, P.N. & Sehgal, R.N. 1980

Habenaria Willd.

600 ; tropics and warm countries of both Old and New Worlds. 106 ; chiefly in Southern and Western India, some in the Himalaya (up to 3,300 m), and Nepal, Pakistan, Bhutan, Bangia Desh and Sri Lanka.

scutellera Wall. ex Lindl.

- 42 Mehra, P.N. & Sehgal, R.N. 1974
42+0-2B Mehra, P.N. & Sehgal, R.N. 1980

scumbata Lindl.

- 42 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

sitchisoni Reichb. f.

- 42 Mehra, P.N. & Vij, S.P. 1970, 1972b

arletina Hook. f.

- 28 Sharma, A. & Sarkar, A.K. 1967-1968
42 Mehra, P.N. & Bawa, K.S. 1962, 1970 ; Mehra, P.N. & Vij, S.P. 1972b
42, 48 Roy, S.C. & Sharma, A.K. 1972

bambusetorum Krzl.

- 44 Mehra, P.N. & Sehgal, R.N. 1976

blemanniana King & Pantl.

- 42 Mehra, P.N. & Vij, S.P. 1970
42, 84 Mehra, P.N. & Vij, S.P. 1972b

commelinifolia Wall.

- 42 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976 ; Kulkarni, H.D. 1977 ; Mehra, P.N. & Kashyap, S.K. 1978 ; Kulkarni, H. & Jorapur, S.M. 1979

crassifolia A. Rich.

- 42 Jorapur, S.M. & Kulkarni, A.L. 1980

crinifera Lindl.

- 42 Kulkarni, H. & Jorapur, S.M. 1979 ; Jorapur, S.M. & Kulkarni, A.L. 1980

decipiens Wight

- 84 Roy, S.C. & Sharma, A.K. 1972

densa Wall.

- 44 Mehra, P.N. & Kashyap, S.K. 1979
46 Mehra, P.N. & Vij, S.P. 1970
46, 48 Mehra, P.N. & Vij, S.P. 1972b
48 Mehra, P.N. & Pal, Y. 1961

dentata (Swartz) Schlecht.*genuculata* D. Don

- 42 Mehra, P.N. & Vij, S.P. 1972b
62 Miduno, T. 1939 ; Chardard, R. 1963
84 Mehra, P.N. & Vij, S.P. 1970
168 Mehra, P.N. & Sehgal, R.N. 1974

digitata Lindl.

- 42 Vij, S.P. & Gupta, G.C. 1975 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

diphylla Dalz.

- 108 Jorapur, S.M. 1980

- edgeworthii* Hook. f. 1976 ; Malla, S.B., Bhattarai, S. *et al.* 1978b
- 42 Mehra, P.N. & Pal, Y. 1961 ; Mehra, P.N. & Bawa, K.S. 1962, 1970 ; Arora, C.M. 1968 ; Mehra, P.N. & Vij, S.P. 1972b
- 84 Vij, S.P. & Gupta, G.C. 1975 ; Mehra, P.N. & Kashyap, S.K. 1976 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976
- gibsonii* Hook. f.
- var. *foetida* Blatt. & McCann.
- 42 Jorapur, S.M. 1980
- var. *foliosa* A. Rich.
- 42 Jorapur, S.M. 1980
- var. *gibsonii*
- 42 Jorapur, S.M. 1980
- grandifloriformis* Blatt. & McCann.
- 44 Jorapur, S.M. 1980 ; Jorapur, S.M. & Kulkarni, A.L. 1980
- graveolens* Duthie
- 42 Arora, C.M. 1968
- heyneana* Lindl.
- 44 Jorapur, S.M. & Garg, V. 1980
- intermedia* D. Don
- 42 Mehra, P.N. & Pal, Y. 1961 ; Mehra, P.N. & Bawa, K.S. 1962, 1970 ; Arora, C.M. 1968 ; Mehra, P.N. & Vij, S.P. 1972b ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976 ; Mehra, P.N. & Kashyap, S.K. 1979
- joosephii* Reichb. f.
- 40 Vij, S.P., Arora, A. & Nanda, U.S. 1976 ; Mehra, P.N. & Kashyap, S.K. 1978
- khasiana* Hook. f.
- 42 Mehra, P.N. & Sehgal, R.N. 1974
- lacertifera* Benth.
- 44 Mehra, P.N. & Sehgal, R.N. 1974
- latilabris* (Lindl.) Hook. f.
- 38 Roy, S.C. & Sharma, A.K. 1972
- 42 Mehra, P.N. & Pal, Y. 1961 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976 ; Malla, S.B., Bhattarai, S. *et al.* 1978b
- Pecteilis latilabris* (Lindl.) Mitra
- 42 Arora, C.M. 1971
- longicorniculata* Grah.
- 40 Kulkarni, H. & Jorapur, S.M. 1979 ; Jorapur, S.M. & Garg, V. 1980
- longicoenu* Lindl.
- 84 Jorapur, S.M. 1980
- marginata* Colebr.
- 42 Arora, C.M. 1971 ; Vij, S.P. & Gupta, G.C. 1975 ; Mehra, P.N. & Kashyap, S.K. 1976 ; Jorapur, S.M. 1980
- var. *flavescens* Blatt. & McCann.
- 42 Jorapur, S.M. 1980
- multicaulis* Hook. f.
- 48 Sharma, A. & Sarkar, A.K. 1967-1968 ; Roy, S.C. & Sharma, A.K. 1972
- uralifolia* Wight
- 44 Jorapur, S.M. 1980
- panchguniense* Santap. & Kap.
- 42 Jorapur, S.M. & Kulkarni, A.L. 1980
- pectinata* D. Don
- 42 Mehra, P.N. & Bawa, K.S. 1962, 1970 ; Arora, C.M. 1968 ; Mehra, P.N. & Vij, S.P. 1972b ; Mehra, P.N. & Kashyap, S.K. 1979
- 42 + 0-2B Mehra, P.N. & Kashyap, S.K. 1976
- ensifolia* Lindl.
- 42 Mehra, P.N. & Bawa, K.S. 1962, 1970 ; Vij, S.P., Arora, A. & Nanda, U.S. 1976 ; Mehra, P.N. & Kashyap, S.K. 1979
- rariflora* A. Rich.
- 42 Jorapur, S.M. 1980
- reniformis* Hook. f.
- c.112 Mehra, P.N. & Sehgal, R.N. 1976
- stenopetala* Lindl.
- 42 Vij, S.P., Arora, A. & Nanda, U.S. 1976

subpubens A. Rich.

44 Jorapur, S.M. & Garg, V. 1980

tridactylites Lindl.

42 Mehra, P.N. & Vij, S.P. 1970

triflora D. Don

42 Mehra, P.N. & Kashyap, S.K. 1978

viridiflora (Swartz) R. Br.

44 Jorapur, S.M. & Garg, V. 1980

viridis R. Br.42 Mehra, P.N. & Vij, S.P. 1970, 1972b ;
Vij, S.P. & Gupta, G.C. 1975 ; Vij,
S.P., Gupta, G.C. & Garg, A.K. 1976

sp.

42 Mehra, P.N. & Pal, Y. 1961

Hemipilia Lindl.12 ; Himalaya, Siam and East Asia.
1 ; temperate Western Himalaya (between
1,300 and 2,300 m), and Nepal.*cordifolia* Lindl.

44 Mehra, P.N. & Bawa, K.S. 1962, 1970

Herminalium Guett.30 ; temperate Eurasia, Siam,
Philippine Islands and Java. 13 ; confined
to Himalaya (between 1,650 and 5,300 m),
and Nepal.*anthisi* Hook. f.

40 Mehra, P.N. & Kashyap, S.K. 1976

jaffreyanum King & Pantl.

38 Mehra, P.N. & Vij, S.P. 1970, 1972b

josephi Reichb. f.

38 Mehra, P.N. & Vij, S.P. 1970, 1972b

lanceum Vujik

38 Mehra, P.N. & Sehgal, R.N. 1980

42 Arora, C.M. 1971

angustifolium Benth.38 Mehra, P.N. & Pal, Y. 1961 ; Mehra,
P.N. & Bawa, K.S. 1970

38, 76 Mehra, P.N. & Vij, S.P. 1970, 1972b

40 Mehra, P.N. & Bawa, K.S. 1962

76 Vij, S.P. & Gupta, G.C. 1975

monophyllum (D. Don) P.F. Hunt & Summerh.
gramineum Lindl.

36 Mehra, P.N. & Kashyap, S.K. 1978

40 Mehra, P.N. & Pal, Y. 1961 ; Arora,
C.M. 1968 ; Mehra, P.N. & Vij, S.P.
1972b*monorchis* (Lindl.) R. Br.

24-26 Baranov, P.A. 1924

38 Vij, S.P. & Gupta, G.C. 1975

40 Heusser, C. 1938 ; Mehra, P.N. &
Bawa, K.S. 1962, 1970 ; Gadella,
T.W.J. & Kliphuis, E. 1963 ; Kliphuis,
E. 1963 ; Mehra, P.N. & Vij, S.P.
1972b*quinquelobium* King & Pantl.

38 Mehra, P.N. & Vij, S.P. 1970, 1972b

Hetaeria Blume20 ; palaeotropics. 3 ; Eastern Himalaya
and Western Peninsula, and Sri Lanka.*rubens* Benth.

22 Mehra, P.N. & Sehgal, R.N. 1974

42 Mehra, P.N. & Vij, S.P. 1970, 1972a

Kingidium P.F. Hunt1 ; Indo-Malesia. Sub-tropical
Himalaya.*taenialis* Lindl.*

36 Mehra, P.N. & Sehgal, R.N. 1976

taenialis (Lindl.) P.F. Hunt

38(57) Mehra, P.N. & Kashyap, S.K. 1978

Liparis Rich.About 250 ; cosmopolitan. 52 ; chiefly
Himalayan, and Nepal, Bhutan and Sri
Lanka.*bistriata* Par. & Reichb. f.

32 Mehra, P.N. & Sehgal, R.N. 1976

*The combination *Kingidium taenialis* should be attributed to P.F. Hunt.

- bituberculata* Lindl.
42 Biswas, B.K. 1980c
- bootanensis* Griff.
38 Mehra, P.N. & Sehgal, R.N. 1974
- cordifolia* Hook. f.
20 Mehra, P.N. & Kashyap, S.K. 1979
- deffexa* Hook. f.
42 Mehra, P.N. & Kashyap, S.K. 1979
- gamblei* Hook. f.
36 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
- glossula* Reichb. f.
20 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976 ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Kashyap, S.K. 1978
- luteola* Lindl.
38 Mehra, P.N. & Sehgal, R.N. 1975
- nervosa* Lindl.
42 Miduno, T. 1940 ; Tanaka, R. 1965b ; Mitsukuri, Y. & Kozuka, T. 1967 ; Jorapur, S.M. & Hedge, S.N. 1980
- paradoxa* Reichb. f.
36 Mehra, P.N. & Vij, S.P. 1970
42 Mehra, P.N. & Sehgal, R.N. 1975 ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Kashyap, S.K. 1979
- perplexilla* Hook. f.
30 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
- petiolata* (D. Don) P.F. Hunt & Summerb.
nepalensis Lindl.
30 Mehra, P.N. & Sehgal, R.N. 1976
36 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
- plantaginea* Lindl.
38 Mehra, P.N. & Sehgal, R.N. 1978
40 Vij, S.P., Arora, A. & Nanda, U.S. 1976
- praseri* King & Pantl.
42 Jorapur, S.M. & Hedge, S.N. 1980
- palchella* Hook. f.
30 Mehra, P.N. & Sehgal, R.N. 1974
- pusilla* Ridley
40 Chatterji, A.K. 1968
- duthiei* Hook. f.
30 Arora, C.M. 1968 ; Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
- resupinata* Ridley
28 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976
56 Mehra, P.N. & Sehgal, R.N. 1974
- rostrata* Reichb. f.
28 Mehra, P.N. & Pal, Y. 1961 ; Mehra, P.N. & Bawa, K.S. 1962, 1970 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976 ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Kashyap, S.K. 1979
30 Arora, C.M. 1968
- viridiflora* (Blume) Lindl.
30 Arora, C.M. 1971 ; Mehra, P.N. & Sehgal, R.N. 1974, 1980
- longipes* Lindl.
38 Biswas, B.K. 1980c
42 Mitsukuri, Y. & Kozuka, T. 1967
- var. *spathulata* Rodley
30 Arora, C.M. 1968
- Listera* R. Br.
30 ; North temperate. 10 ; chiefly in Eastern Himalaya (up to 4,000 m).
- microglottis* Duthie
40+0-1B Vij, S.P., Gupta, G.C. & Garg, A.K. 1976
- ovata* R. Br.
32 Guignard, L. 1882, 1891 ; Rosenberg, O. 1905
32, 34 Miller, C. 1912
32, 34, 36 Tsuchnajakowa, M.B. (Fedorov)
34 Hoffman, K.M. 1929, 1930 ; Storer, P. 1929 ; Barber, H.N. 1942 ; Hagerup, O. 1947 ; Skalińska, M. *et al.* 1957 ; Knaben, G. & Engelakjøn, T. 1967 ; Laveque, M. & Gorenfiot,

- R. 1969 ; Schotsman, H.D. 1970 ;
Aver'yanov, L.V. 1977
34+1f MacMahon, B. 1936
34,
34+1-2B Meili-Frei, E. 1965
34,
34+1-5B Vosa, C.G. & Barlow, P.W. 1972
34,
34+2-3B Garbari, F. 1971
34, 36 Richardson, M.M. 1933 ; Tischler, G.
1934
34, 35, 36 Kliphuis, E. 1963
34, 36, 38 Löve, A. & Löve, D. 1944b
34, 38 Gadella, T.W.J. & Kliphuis, E. 1963
34-40 Löve, A. & Löve, D. 1956b
38 Nygren (Löve, A. & Löve, D. 1948);
Sorsa, V. 1962, 1963b
42 Blackburn (Maude, P.F. 1939)
- pinetorum* Lindl.
40 Mehra, P.N. & Vij, S.P. 1970, 1972a ;
Vij, S.P., Arora, A. & Nanda, U.S.
1976
- tenula* Lindl.
40 Mehra, P.N. & Kashyap, S.K. 1978
- Luisia* Gaud.
30 ; tropical Asia to Japan and
Polynesia. 16 ; chiefly in Himalaya, and
Bangla Desh and Sri Lanka.
- brachystachya* Blume
40 Arora, C.M. 1971
- inconspicua* Hook. f.
38 Mehra, P.N. & Vij, S.P. 1970 ; Vij,
S.P. & Mehra, P.N. 1976 ; Mehra,
P.N. & Kashyap, S.K. 1979
- macrantha* Blatt. & McCann.
38 Kulkarni, H. & Jorapur, S.M. 1979
- tenatifolia* Blume
var. *evangelinae* (Blatt. & McCann)
Santap. & Kap.
38 Kulkarni, H. & Jorapur, S.M. 1979
- teretifolia* Gaud.*
38 Pancho, J.V. 1965a ; Chatterji, A.K.
1968 ; Mehra, P.N. & Vij, S.P. 1970 ;
Tara, M. & Kamemoto, H. 1970 ;
Vij, S.P. & Mehra, P.N. 1976 ;
Kulkarni, H. & Jorapur, S.M. 1979
c.38 Jones, K. 1967
- trichorhiza* Blume
38 Jones, K. 1967 ; Vij, S.P., Arora, A.
& Nanda, U.S. 1976 ; Vij, S.P. &
Mehra, P.N. 1976 ; Mehra, P.N. &
Kashyap, S.K. 1978
40 Arora, C.M. 1968
- Malaxis* Soland. ex Swartz
About 300 ; throughout the world
except in Australia and New Zealand. 20 ;
mostly in Himalaya and Western Ghats, and
Nepal and Sri Lanka.
- acuminata* D. Don
30 Arora, C.M. 1971
42 Mehra, P.N. & Sehgal, R.N. 1980
- Microstylis wallichii* Lindl.
36 Mehra, P.N. & Vij, S.P. 1970
42 Mehra, P.N. & Kashyap, S.K. 1976
- f. *biloba* (Lindl.) Tuyama
Microstylis biloba Lindl.
36 Mehra, P.N. & Vij, S.P. 1970 ; Vij,
S.P. & Mehra, P.N. 1976
- cylindrostachya* (Lindl.) Kuntze
Microstylis cylindrostachya Reichb. f.
30 Mehra, P.N. & Bawa, K.S. 1970 ;
Mehra, P.N. & Vij, S.P. 1970 ; Vij,
S.P., Gupta, G.C. & Garg, A.K.
1976 ; Vij, S.P. & Mehra, P.N. 1976
30+0-2B Mehra, P.N. & Kashyap, S.K. 1976
- densiflora* O. Kuntze
42 Jorapur, S.M. & Hedge, S.N. 1980
- josephiana* (Reichb. f.) K.M. Matthew
Microstylis josephiana Reichb. f.
38 Chatterji, A.K. 1964-1965

**Luisia teretifolia* auct. non Gaud., FBI, 6 : 22, is a synonym of *L. zeylanica* Lindl. (FHD : 836).

- khasiana* (Hook. f.) K.M. Matthew
Microstylis khasiana Hook. f.
 42 Roy, S.C. & Sharma, A.K. 1972
- latifolia* Smith. ex Rees
 42 Mehra, P.N. & Sehgal, R.N. 1980
- Microstylis congesta* Reichb. f.
 42 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976
- mackinnonii* (Duthie) Ames
Microstylis mackinnonii Duthie
 42 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976
- maximowicziana* (King & Pantl.)
 T. Tang & F.T. Wang
Microstylis maximowicziana King & Pantl.
 42 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976; Biswas, B.K. 1980c
- muscifera* (Lindl.) O. Kuntze
 60 Mehra, P.N. & Kashyap, S.K. 1979
- Microstylis muscifera* Ridley
 30 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976
- saprophyta* (King & Pantl.) T. Tang & F.T. Wang
Microstylis saprophyta King & Pantl.
 42 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976
- scottii* Kuntze
Microstylis scottii Hook. f.
 42 Vij, S.P., Arora, A. & Nanda, U.S. 1976
- sikkimensis* Reichb. f.
Oberonia myriantha Lindl.
 30 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976
 c.72 Arora, C.M. 1971
- vericolor* Santap. & Kap.
 42 Jorapur, S.M. & Hedge, S.N. 1980

Neogyna Reichb. f.

1; North West India, South West China and Indo-China. Subtropical Himalaya and Khasi Hills.

- gardneriana* (Lindl.) Reichb. f.
Coelogyne gardneriana Lindl.
 42 Mehra, P.N. & Sehgal, R.N. 1974

Neottia Guett.

9; temperate Eurasia. 3; temperate Himalaya (up to 3,660 m).

- kashmiriana* (Duthie) P. Beauv.
Listera kashmiriana Duthie
 42 Vij, S.P. & Gupta, G.C. 1975

histeroides Lindl.

- 40(36) Vij, S.P. & Gupta, G.C. 1975
 40 Mehra, P.N. & Bawa, K.S. 1962, 1970; Mehra, P.N. & Vij, S.P. 1970, 1972a; Mehra, P.N. & Kashyap, S.K. 1969; Mehra, P.N. & Pandita, T.K. 1979
 44 Mehra, P.N. & Pal, Y. 1961

Listera lindleyana King & Pantl.

- 40 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

Nephelaphyllum Blume

12; India to China and Malaysia. 1; Khasi Hills.

cordifolium Lindl.

- 36+3-7B Mehra, P.N. & Sehgal, R.N. 1976
 36+4-8B,
 36+5-10B Mehra, P.N. & Sehgal, R.N. 1980

Nervilia Comm. ex Gaud.

80; tropical and subtropical old World. About 13; chiefly in Himalaya and Bangla Desh.

aragona Gaud.

- Pogonia gammeana* Hook. f.
 36 Vij, S.P., Arora, A. & Nanda, U.S. 1976
 68 Biswas, B.K. 1980b, c

discolor (Blume) Schlecht.

- 20 Pascho, J.V. 1965b

jullana (Roxb.) Schlecht.

- 54 Kulkarni, H.D. 1977; Kulkarni, H. & Jorapur, S.M. 1979

Pogonia juliana Wall.

68 Biswas, B.K. 1980c

plicata (Andr.) Schlecht.*Pogonia plicata* Lindl.

62 Roy, S.C. & Sharma, A.K. 1972

Oberonia Lindl.

About 330 ; palaeotropics, 52 ; chiefly in Eastern Himalaya and Western Ghats, and Nepal, Bangla Desh and Sri Lanka.

auriculata King & Pantl.

30 Mehra, P.N. & Kashyap, S.K. 1979

brachyphylla Blatt. & McCann30 Hegde, S.N. & Jorapur, S.M. 1977 ;
Jorapur, S.M. & Hedge, S.N. 1980*bruceana* Wight30 Jorapur, S.M. & Hegde, S.N. 1975 ;
Jorapur, S.M. & Hedge, S.N. 1980*caulescens* Lindl.26 Mehra, P.N. & Vij, S.P. 1970
30 Vij, S.P. & Mehra, P.N. 1976*ensiformis* Lindl.30 Jorapur, S.M. & Hegde, S.N. 1975 ;
Vij, S.P., Gupta, G.C. & Garg, A.K.
1976 ; Jorapur, S.M. & Hedge, S.N.
1980*falconeri* Hook. f.30 Jorapur, S.M. & Hegde, S.N. 1975 ;
Mehra, P.N. & Kashyap, S.K. 1976 ;
Vij, S.P., Gupta, G.C. & Garg, A.K.
1976 ; Jorapur, S.M. & Hedge, S.N.
1980*fridolfia* Lindl.30 Mehra, P.N. & Sehgal, R.N. 1975,
1976var. *brevifolia*

30 Mehra, P.N. & Sehgal, R.N. 1976

var. *denticulata* Wight30 Hegde, S.N. & Jorapur, S.M. 1977 ;
Jorapur, S.M. & Hedge, S.N. 1980*Jenkinsiana* Griff.30 Vij, S.P., Gupta, G.C. & Garg, A.K.
1976*longilabris* King & Pantl.30 Vij, S.P., Gupta, G.C. & Garg, A.K.
1976*mannii* Hook. f.

30 Mehra, P.N. & Sehgal, R.N. 1978

myriantha (Lindl.) Reichb. f.

30 Mehra, P.N. & Sehgal, R.N. 1978

obcordata Lindl.30 Mehra, P.N. & Vij, S.P. 1970 ; Vij,
S.P. & Mehra, P.N. 1976*pachyrachis* Reichb. f.30 Mehra, P.N. & Sehgal, R.N. 1975 ;
Vij, S.P., Gupta, G.C. & Garg, A.K.
1976 ; Mehra, P.N. & Kashyap, S.K.
1979*psalinosa* King & Pantl.30 Mehra, P.N. & Vij, S.P. 1970 ; Vij,
S.P., Gupta, G.C. & Garg, A.K.
1976 ; Vij, S.P. & Mehra, P.N. 1976*proudlockii* King & Pantl.30 Hegde, S.N. & Jorapur, S.M. 1977 ;
Jorapur, S.M. & Hedge, S.N. 1980*santsapaul* Kap.30 Jorapur, S.M. & Hegde, S.N. 1975 ;
Jorapur, S.M. & Hedge, S.N. 1980*verticillata* Wight30 Jorapur, S.M. & Hegde, S.N. 1975 ;
Jorapur, S.M. & Hedge, S.N. 1980*Orchis* Linn.

35 ; Madeira, temperate Eurasia to India and South West China. 6 ; Western Himalaya (between 2,660 and 5,300 m), and Nepal.

habenarioides King & Pantl.40 Mehra, P.N. & Vij, S.P. 1970, 1972b ;
Mehra, P.N. & Kashyap, S.K. 1979*latifolia* Linn.*20 Fuchs, A. & Ziegenspeck, H. 1942 ;
Tischler, G. 1934

* *Orchis latifolia acut. pl.*, non Linn., *FBI*, 6 : 127, is a synonym of *Dactylochiza batagirea* (D. Don) *Seb.*

- 40 Eftimiú-Heim, P. 1941 (Duncan, R.E. 1959); Heslop-Harrison, J. 1948; Sokolovskaya, A.P. & Strelkova, O.B. (Fedorov); Mehra, P.N. & Bawa, K.S. 1962
- 40, 80 Richardson (Maude, P.P. 1939)
- 42 Roy, S.C. & Sharma, A.K. 1972
- 80 Hagerup, O. 1938; Heusser, C. 1938; Vermoulen, P. 1938; Skolníšková, M. *et al.* 1957; Vij, S.P. & Gupta, G.C. 1975

Ornithochilus (Lindl.) Benth.

1; India, Burma, Siam and China. Tropical Himalaya.

difformis (Wall.) Schlecht.

fuscus Wall.

- 38 Mehra, P.N. & Kashyap, S.K. 1976; Vij, S.P., Arora, A. & Nanda, U.S. 1976; Mehra, P.N. & Sehgal, R.N. 1980

Otaochilus Lindl.

4; Eastern Himalaya to South East Asia. 3; subtropical Himalaya (up to 2,000 m), and Nepal.

alba Lindl.

- 36(40, 68) Chatterji, A.K. 1966
- 40 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976

fusca Lindl.

- 40 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976; Mehra, P.N. & Sehgal, R.N. 1980

porrecta Lindl.

- 40 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976; Mehra, P.N. & Sehgal, R.N. 1980

Pachystoma Blume

11; China, Indo-Malesia, North Australia and New Caledonia. 1; plains and foot-hills of Northern India and Western Ghats, and Sri Lanka.

senile Reichb. f.

- 40 Mehra, P.N. & Kashyap, S.K. 1979

Paulea (Lindl.) Lindl.

4; North East India and Indo-China. 2; tropical and subtropical Himalaya (up to 3,300 m), and Nepal.

uniflora (Lindl.) Lindl.

- 40 Vij, S.P. & Mehra, P.N. 1976

Coelogyne uniflora Lindl.

- 40 Mehra, P.N. & Vij, S.P. 1970

Paphiopedilum Pfitz.

50; tropical Asia to Solomon Island. About 7; Eastern Himalaya and Assam, and Bangla Desh.

patricianum (Lindl.) Pfitz.

- 26 Duncan, R.E. 1947, 1959; Mehlquist, G.A.L. 1947; Duncan, R.E. & McLeod, R.A. 1949; Vij, S.P. & Mehra, P.N. 1974; Mehra, P.N. & Sehgal, R.N. 1980

hirsutissimum (Lindl.) Pfitz.

- 26 McQuade, H.A. 1949; Mehra, P.N. & Sehgal, R.N. 1976
- 26, 27, 28 Duncan, R.E. 1947; Duncan, R.E. & McLeod, R.A. 1949

insigne (Wall.) Pfitz.

- 26 Mehlquist, G.A.L. 1947; Chatterji, A.K. 1964-1965; Tanaka, R. 1965b, 1971; Vij, S.P. & Mehra, P.N. 1974
- 26, 28 Duncan, R.E. 1947
- 26, 32 McQuade, H.A. 1949
- 26, 39 Karasawa, K. 1978
- 28 Mehra, P.N. & Sehgal, R.N. 1976
- 32 Hoffman, K.M. 1929, 1930; Francini, E. 1931
- 42, 48, 54 Mehra, P.N. & Sehgal, R.N. 1980

var. *sunderae*

- 26 Karasawa, K. & Tanaka, R. 1980

var. *smithsoni*

- 39 Biswas, B.K. & Sharma, A.K. 1961

spicerianum (Reichb. f.) Pflz.

- 28 Duncan, R.E. 1947
 28, 30 Duncan, K.E. & McLeod, R.A. 1949
 30 Francini, E. 1931; Biswas, B.K. 1980b; Biswas, B.K. & Sharma, A.K. 1981

venustum Pflz.

- 36 Francini, E. 1931
 36, 42 McQuade, H.A. 1949
 38 Mehra, P.N. & Sehgal, R.N. 1980
 38(57) Chatterji, A.K. 1966
 40 Katak, S.K. 1963
 40+1B Mehra, P.N. & Vij, S.P. 1970
 40+2B Vij, S.P. & Mehra, P.N. 1974
 42 Duncan, R.E. 1947; Duncan, R.E. & McLeod, R.A. 1950

villosum (Lindl.) Pflz.

- 26 Francini, E. 1934; Duncan, R.E. 1947, 1959; Mehlquist, G.A.L. 1947; Duncan, R.E. & McLeod, R.A. 1948; McQuade, H.A. 1949; Vij, S.P. & Mehra, P.N. 1974; Mehra, P.N. & Sehgal, R.N. 1980
 28 Francini, E. 1931

Peristylus Blume

60; China, Formosa, Polynesia, India to Australia. 18; chiefly in Western Ghats, a few in the Himalaya, and Nepal, Bhutan, Bangla Desh and Sri Lanka.

aristatus Lindl.

- 46 Jorapur, S.M. & Garg, V. 1980

Habenaria aristata Hook. f.

- 42 Mehra, P.N. & Vij, S.P. 1970, 1972b
 122 Mehra, P.N. & Sehgal, R.N. 1974

constricta Lindl.*Habenaria constricta* Hook. f.

- 42 Arora, C.M. 1971

densa (Lindl.) Santap. & Kap.*Habenaria stenostachya* Benth.

- 42+2B, 46 Mehra, P.N. & Sehgal, R.N. 1974

elisabethae (Duthie) P.F. Hunt*Habenaria elisabethae* Duthie

- 42 Mehra, P.N. & Bawa, K.S. 1962;

Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

Herminium elisabethae (Duthie) Tang & Wong

- 42 Mehra, P.N. & Bawa, K.S. 1970

fallax Lindl.*Habenaria fallax* King & Pantl.

- 30 Mehra, P.N. & Kashyap, S.K. 1978
 42 Mehra, P.N. & Vij, S.P. 1970

Herminium fallax Hook. f.

- 34 Mehra, P.N. & Sehgal, R.N. 1974

goodyeroides (D. Don) Lindl.

- 42 Arora, C.M. 1968; Mehra, P.N. & Kashyap, S.K. 1978
 46 Jorapur, S.M. & Garg, V. 1980
 46+1-3B Mehra, P.N. & Sehgal, R.N. 1980

Habenaria goodyeroides D. Don

- 42 Mehra, P.N. & Vij, S.P. 1972b
 46 Mehra, P.N. & Vij, S.P. 1970

var. *affinis* Lindl.

- 42 Mehra, P.N. & Kashyap, S.K. 1978

lawii Wight

- 46 Jorapur, S.M. & Garg, V. 1980

Habenaria lawii Hook. f.

- 42 Mehra, P.N. & Kashyap, S.K. 1978

plantagineus Lindl.

- 46 Jorapur, S.M. & Garg, V. 1980

Habenaria plantaginea Lindl.

- 42 Arora, C.M. 1968; Mehra, P.N. & Kashyap, S.K. 1976; Vij, S.P., Arora, A. & Nanda, U.S. 1976
 126 Mehra, P.N. & Vij, S.P. 1970, 1972b

stenostachys (Lindl.) Kränzl

- 46 Jorapur, S.M. & Garg, V. 1980

stocksi (Hook. f.) Kränzl

- 46 Jorapur, S.M. & Garg, V. 1980

xanthochlorus Blatt. & McCann.

- 46 Jorapur, S.M. & Garg, V. 1980

Phaius Lour.

50; tropical Africa, Mascarene, tropical Asia, Australia and Polynesia (introduced

and now widespread in Panama and West Indies). About 6; Eastern Himalaya, and Nepal, Bangla Desh and Sri Lanka.

flavus (Blume) Lindl.

maculatus Lindl.

42 Mehra, P.N. & Sehgal, R.N. 1976

grandifolius Lour.*

38 Arora, C.M. 1968

longipes (Hook. f.) Holtt.

Calanthe graeffii Lindl.

40 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976

mishmensis Reichb. f.

42 Vij, S.P., Arora, A. & Nanda, U.S. 1976

c.50 Mehra, P.N. & Sehgal, R.N. 1976

62 Sharma, A. & Sarkar, A.K. 1967-1968; Roy, S.C. & Sharma, A.K. 1972

taskervilliae (Ait.) Blume

42 Mitsuura, O. & Nakahira, R. 1964

46 Mehra, P.N. & Sehgal, R.N. 1975

grandifolius Lindl.

50 Tanaka, R. 1965b

wallichii Lindl.

42 Mehra, P.N. & Vij, S.P. 1970

48 Sharma, A. & Sarkar, A.K. 1967-1968; Roy, S.C. & Sharma, A.K. 1972

var. *assamica*

42 Sharma, A. & Sarkar, A.K. 1967-1968; Roy, S.C. & Sharma, A.K. 1972

Phalaenopsis Blume

35; China, Indo-Malesia and Queensland. 6; Eastern Himalaya and Andaman Islands a few cultivated.

amabilis (Linn.) Blume

38 Shindo, K. & Kamemoto, H. 1963c; Chatterji, A.K. 1964-1965; Arends, J.C. 1970

38, 69+3f Sagawa, Y. 1963

38, 114 Woodard, J.W. 1951

38, 152±2 Pancho, J.V. 1965a

decumbens (Griff.) Holtt.

38 Kamemoto, H., Sagarik, R. & Kascmap, S. 1964

Doritis wightii Benth.

38 Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976

equestris (Schauer) Reichb. f.

rosea Lindl.

38 Roy, S.C. & Sharma, A.K. 1972

mannii Reichb. f.

38 Woodard, J.W. 1951; Sharma, A.K. & Chatterji, A.K. 1960; Sagawa, Y. 1962; Shindo, K. & Kamemoto, H. 1963c; Arends, J.C. 1970; Roy, S.C. & Sharma, A.K. 1972

speciosa Reichb. f.

38 Sagawa, Y. 1962

Pholidota Lindl.

55; China, Polynesia and India to Australia. 9; chiefly in Himalaya, and Nepal, Bhutan, Bangla Desh and Sri Lanka.

articulata Lindl.

40 Arora, C.M. 1968; Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976; Mehra, P.N. & Kashyap, S.K. 1979

42 Mehra, P.N. & Pal, Y. 1961

var. *griffithii* King & Pantl.

40 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976; Mehra, P.N. & Sehgal, R.N. 1980

**Phalaenopsis grandifolius* Lour. is found in China and Australia, whereas *P. grandifolius* Lindl., non-Lour. is a synonym of *P. taskervilliae* (Ait.) Blume.

calceata Reichb. f.

- 40 Vij, S.P., Arora, A. & Nanda, U.S. 1976
42 Mehra, P.N. & Sehgal, R.N. 1974

imbriata Lindl.

- 40 Arora, C.M. 1968 ; Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

pellida Lindl.

- 40 Mehra, P.N. & Sehgal, R.N. 1980

protracta Hook. f.

- 40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

recura Lindl.

- 40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

Phreatia Lindl.

190 ; North East India, China and Formosa to Polynesia, Australia, New Zealand. 2 ; Khasi Hills, and Sri Lanka.

elegans Lindl.

- 32 Mehra, P.N. & Sehgal, R.N. 1976

Platanthera Rich.

About 200 ; temperate and tropical Eurasia, North Africa, North and Central America. 1 ; tropical Himalaya and Deccan Peninsula.

susannae (Linn.) Lindl.

- 42 Arora, C.M. 1968 ; Jorapur, S.M. & Garg, V. 1980

Habenaria susannae R. Br.

- 42 Mehra, P.N. & Bawa, K.S. 1962, 1970 ; Mehra, P.N. & Vij, S.P. 1972b ; Mehra, P.N. & Kashyap, S.K. 1979

Pleione D. Don

10 ; India to Formosa and Siam. 4 ; Eastern Himalaya (up to 3,300 m), Nepal and Sri Lanka.

hookeriana (Lindl.) O. Kuntze

- 40 Malla, S.B. *et al.* 1979
40+1-2B Hunt, P.F. & Vosa, G.C. 1971

humilis (Smith) D. Don

- 40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Sehgal, R.N. 1980
40,
40+1-3B Hunt, P.F. & Vosa, C.G. 1971

maculata Lindl. & Paxt.

- 40 Hunt, P.F. & Vosa, C.G. 1971 ; Biswas, B.K. 1978, 1980c

praecox D. Don

- 40 Chatterji, A.K. 1964-1965 ; Sharma, A. & Sarkar, A.K. 1967-1968 ; Mehra, P.N. & Vij, S.P. 1970 ; Hunt, P.F. & Vosa, C.G. 1971 ; Roy, S.C. & Sharma, A.K. 1972 ; Mehra, P.N. & Sehgal, R.N. 1980
40+0-2B Vij, S.P. & Mehra, P.N. 1976
40+0-3B Vij, S.P., Arora, A. & Nanda, U.S. 1976

Podochilus Blume

60 ; South West China, Indo-Malesia and Polynesia. 6 ; Eastern Himalaya and Western Peninsula, and Sri Lanka.

caltratus Lindl.

- 38 Mehra, P.N. & Vij, S.P. 1970

caltratus King & Pantl.*

- 38 Vij, S.P. & Mehra, P.N. 1976

Porpax Lindl.

10 ; India to Siam. About 5 ; Eastern Himalaya and Western Ghats.

*The combination *Podochilus caltratus* should be attributed to Lindl. (DFPI : 135).

jerdoniana (Wight) Rolfe

24 Jorapur, S.M. & Kulkarni, A.L. 1981

meirax King & Pantl.

24 Mehra, P.N. & Sehgal, R.N. 1974

reticulata Lindl.

24 Jorapur, S.M. & Kulkarni, A.L. 1981

Renanthera Lour.

13 ; India, South East Asia, Malaysia and Solomon Islands. 2 ; Eastern Himalaya and Khasi Hills.

inschootiana Rolfe

38 Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Sehgal, R.N. 1980

Rhynchostylis Blume

15 ; China and Indo-Malesia. 2 ; Himalaya, Bengal, Western and Southern India, and Sri Lanka.

retusa (Linn.) Blume

38 Sharma, A.K. & Chatterji, A.K. 1960 ; Arora, C.M. 1968 ; Tara, M. & Kamenoto, H. 1970 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976 ; Vij, S.P. & Mehra, P.N. 1976 ; Kulkarni, H. & Jorapur, S.M. 1979 ; Mehra, P.N. & Sehgal, R.N. 1980

Robiquetia Gaud.

20 ; India, South East Asia, Malaysia, Solomon and Fiji. 2 ; Eastern Himalaya and Assam.

paniculata (Lindl.) J.J. Smith

38 Kamenoto, H., Sagarik, R. & Kasemsap, S. 1964 ; Tara, M. & Kamenoto, H. 1970

Saccolabium Blume

pseudo-distichum King & Pantl.*

38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

Sarcanthus Lindl.

100 ; tropical Asia and Australia. 15 ; chiefly in Eastern Himalaya and Deccan Peninsula, and Nepal, Bhutan, Bangla Dosh and Sri Lanka.

appendiculatus Hook. f.

38 Kamenoto, H., Sagarik, R. & Kasemsap, S. 1964 ; Chatterji, A.K. 1968

bicuspidatus J.J. Smith

Stereochilus bicuspidatus King & Pantl.

38 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

brevipes J.J. Smith

Cleisostoma brevipes Hook. f.

38 Vij, S.P. & Mehra, P.N. 1976
40 Mehra, P.N. & Vij, S.P. 1970
72 Mehra, P.N. & Sehgal, R.N. 1974

filiformis Lindl.

38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

paniculatus J.J. Smith

Cleisostoma paniculatum (Kar-Gawl.) Gar.

42 Mehra, P.N. & Sehgal, R.N. 1976

pauciflorus Wight

peninsularis Daltz.

38 Hegde, S.N. & Jorapur, S.M. 1977 ; Jorapur, S.M. & Garg, V. 1980

racemifer (Lindl.) Reichb. f.

38 Malla, S.B., Bhattarai, S. *et al.* 1978b

pollidus Lindl.

38 Chatterji, A.K. 1968

*Some taxonomists treat *Saccolabium pseudo-distichum* King & Pantl. under *Acanthe*.

Cleisostoma racemiferum (Lindl.) Gar.

38 Mehra, P.N. & Sehgal, R.N. 1980

striatum J.J. Smith*Cleisostoma striatum* (Reichb. f.) Gar.

38, 40 Mehra, P.N. & Sehgal, R.N. 1978

williamsonii Reichb. f.

38 Mehra, P.N. & Sehgal, R.N. 1974

sp.

32, 36, 38 Sharma, A.K. & Chatterji, A.K. 1960

Sarcochilus R. Br.*purpureus* Benth.*38 Mehra, P.N. & Sehgal, R.N. 1974 ;
Chatterji, A.K. 1978*Satyrium* Swartz

115 ; tropical and South Africa, Mascarene, India, and China. 1 ; temperate Himalaya (up to 4,660 m). Khasi Hills and Peninsular India, and Sri Lanka.

nepalense D. Don

82 Swamy, B.G.L. 1944 ; Jorapur, S.M. 1980 ; Mehra, P.N. & Sehgal, R.N. 1980

82, 164 Mehra, P.N. & Vij, S.P. 1972b

123 Vij, S.P., Arora, A. & Nanda, U.S. 1976

164 Mehra, P.N. & Pal, Y. 1961 ; Vij, S.P. & Gupta, G.C. 1975

Schneevorchis Blume

20 ; China, Indo-Malesia, Solomon and Fiji Islands. 3 ; Eastern Himalaya.

gemmata (Lindl.) J.J. Smith

40 Vij, S.P. & Mehra, P.N. 1976

Cleisostoma gemmatum King & Pantl.

26 Vij, S.P., Arora, A. & Nanda, U.S. 1976

40 Mehra, P.N. & Vij, S.P. 1970

Spathoglottis Blume

46 ; China, Indo-Malesia and Australia. 3 ; Eastern Himalaya, and Nepal.

plicata Blume

18 Hsu, C.-C. 1972

40 Tanaka, R. 1965b ; Hegde, S.N. & Boraiiah, G. 1972a ; Prakash, N. & Lee-Lee, A. 1973

42 Roy, S.C. & Sharma, A.K. 1972

pubescens Lindl.

38 Mehra, P.N. & Sehgal, R.N. 1974

40 Mehra, P.N. & Sehgal, R.N. 1976

Spiranthes Rich.

25 ; widely distributed in temperate zones of both hemispheres. 2 ; Western Himalaya, 1 throughout India, and Bangla Desh and Sri Lanka.

autumnalis Rich.

20, 28

30-10-2B Vij, S.P. & Vohra, N. 1974a

lancea (Thunb.) Backer30 Mehra, P.N. & Kashyap, S.K. 1979 ;
Mehra, P.N. & Sehgal, R.N. 1980*australis* Lindl.

20 Barganov, P.A. (Fedorov)

24 Takamine, N. 1916

30, 32 Mehra, P.N. & Vij, S.P. 1970

sinensis (Pers.) Ames24 One, R. *et al.* 1957

30 Miduno, T. 1939 ; Tanaka, R. 1963a, b, 1969a, b, 1971 ; Roy, S.C. & Sharma, A.K. 1972

30, 32 Mehra, P.N. & Vij, S.P. 1972a

30, 60 Vij, S.P. & Vohra, N. 1974a

60 Vij, S.P. & Gupta, G.C. 1975

Sunipia Buch.-Ham. ex Lindl.

15 ; India, South East Asia and Formosa. 5 ; Eastern Himalaya, and Nepal.

* *Sarcochilus purpureus* Benth. is treated under *Chiloschista* by some taxonomists.

bicolor Lindl.

Ione bicolor Lindl.

40 Mehra, P.N. & Sehgal, R.N. 1974

candida (Lindl.) P.F. Hunt

Ione candida Lindl.

40 Mehra, P.N. & Sehgal, R.N. 1974

Taeniophyllum Blume

120 ; tropical Africa to Japan and Tahiti, and Australasia. 4; Eastern Himalaya, and Southern India, and Sri Lanka.

crepidiforme King & Pantl.

38 Mehra, P.N. & Vij, S.P. 1970

scaberulum Hook. f.

36 Chatterji, A.K. 1978

Tainia Blume

25 ; China, Formosa and Indo-Malesia. 9 ; Eastern Himalaya and Southern India, and Bangla Desh and Sri Lanka.

hookeriana King & Pantl.

40 Biswas, B.K. 1980c

khassiana Hook. f.

32 Biswas, B.K. 1980c

latifolia Benth.

32 Biswas, B.K. 1978

40 Vij, S.P., Arora, A. & Nanda, U.S. 1976

viridi-fusca Benth.

40 Mehra, P.N. & Sehgal, R.N. 1976

Thrixspermum Lour.

100 ; South East Asia to Formosa, Indo-Malesia, Australia and Polynesia. 2 ; Eastern Himalaya.

pygmaeum (King & Pantl.) Holtt.

Sarcochilus pygmaeus King & Pantl.

38 Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

Thunia Reichb. f.

6 ; India and South East Asia. 3 ; Himalaya and Western Ghats, and Sri Lanka.

alba Reichb. f.

36 Chatterji, A.K. 1976
40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Kashyap, S.K. 1978
c.40 Mehra, P.N. & Sehgal, R.N. 1978
42 Tanaka, R. 1971
44 Roy, S.C. & Sharma, A.K. 1972

Phalus albus Lindl.

44 Sharma, A. & Sarkar, A.K. 1967-1968

var. *marshalliana* (Reichb. f.) Hook.

marshalliana Reichb. f.

38 Roy, S.C. & Sharma, A.K. 1972
40 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

venosa Rolfe

40 Malla, S.B. *et al.* 1976

Trias Lindl.

6 ; South East Asia. 2 ; Eastern Himalaya and Western Ghats.

pustilla Joseph

38 Mehra, P.N. & Sehgal, R.N. 1976

stocksii Benth.

38 Kulkarni, H. & Jorapur, S.M. 1979

Trichoglottis Blume

60 ; Formosa, Indo-Malesia and Polynesia. 2 ; Nilgiri Hills and Nicobar Islands, and Sri Lanka.

tenera (Lindl.) Reichb. f.

Saccolabium tenerum Lindl.*

c.38 Jones, K. 1967

Tropidia Lindl.

22 ; India to Formosa, Malaysia and Polynesia, Florida, Central America and West Indies. 6 ; Eastern Himalaya and South Western India, and Bangla Desh and Sri Lanka.

curculigoides Lindl.

60 Biswas, B.K. 1980c

Uncifera Lindl.

5 ; India, Siam and Malay Peninsula. 2-3 ; Eastern Himalaya.

acuminata Lindl.

Saccolabium acuminatum Hook. f.

38 Vij, S.P., Arora, A. & Nanda, U.S. 1976 ; Vij, S.P., Gupta, G.C. & Garg, A.K. 1976

obtusifolia Lindl.

38 Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Sehgal, R.N. 1980

Saccolabium obtusifolium Hook. f.

38 Mehra, P.N. & Vij, S.P. 1970

Vanda R. Br.

60 ; China, Indo-Malesia and Marianne Islands. 10 ; mostly in Himalaya and Western Ghats, and Nepal, Bhutan, Bangla Desh and Sri Lanka.

alpina Lindl.

38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

coarctata Griff. ex Lindl.

38 Storey, W.B. 1952, 1953 ; Woodard,

J.W. 1952 ; Kamemoto, H., Sagarik, R. & Kasemsap, S. 1964 ; Mehra, P. N. & Sehgal, R.N. 1980

crispata Lindl.

38 Arora, C.M. 1971 ; Vij, S.P. & Mehra, P.N. 1976 ; Mehra, P.N. & Sehgal, R.N. 1980

38, 76 Mehra, P.N. & Kashyap, S.K. 1976

parishii Veitch & Reichb. f.

38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

38, 76 Kamemoto, H., Sagarik, R. & Kasemsap, S. 1964

spatheolata Spreng.

76 Storey, W.B. 1952

114 Kamemoto, H., Tanaka, R. & Kosaki, K. 1961

stangeana Reichb. f.

38 Mehra, P.N. & Vij, S.P. 1970

teres Lindl.

35, 38 Sharma, A.K. & Chatterji, A.K. 1960

38 Storey, W.B. 1952, 1953 ; Shindo, K. & Kamemoto, H. 1963a ; Kamemoto, H., Sagarik, R. & Kasemsap, S. 1964 ; Vij, S.P. & Mehra, P.N. 1976

tessellata (Roxb.) Hook. ex G. Don

38 Kulkarni, H. & Jorapur, S.M. 1979

roxburghii R. Br.

38 Sarkar, A.K., Mallick, R. et al. 1977

38, 42, 44 Sharma, A.K. & Chatterji, A.K. 1960

testacea (Lindl.) Reichb. f.

38 Arora, C.M. 1971 ; Kulkarni, H. & Jorapur, S.M. 1979

parviflora Lindl.

38 Mehra, P.N. & Kashyap, S.K. 1976 ; Vij, S.P., Arora, A. & Nanda, U.S. 1976

c.40 Jones, K. 1967

*The combination *Saccolabium tenerum* should be attributed to Trimen.

Vandopsis Pfitz.

21 ; China, Formosa, North East India to Polynesia. 1 or 2 ; Eastern Himalaya.

undulata (Lindl.) J.J. Smith

38 Mehra, P.N. & Sehgal, R.N. 1980

Stauropsis undulatus Benth. ex Hook.

38 Mehra, P.N. & Vij, S.P. 1970 ; Vij, S.P. & Mehra, P.N. 1976

Vanilla Mill.

90 ; tropics and subtropics. 4 ; Southern India and Andaman Islands, 1 cultivated.

griffithii Reichb. f.

32 Vij, S.P., Arora, A. & Nanda, U.S. 1976

planifolia Andr.

28-32 Hurel-Py, G. 1938
28, 30 Chatterji, A.K. 1964-1965
28, 32 Ravindran, P.N. 1979
c.32 Hoffmann, K.M. 1929, 1930
32 Simmonds, N.W. 1954 ; Eftimiu-Heim, P. 1954 (Martin, F.W. 1963) ; Martin, F.W. 1963

fragrans Ames

30-32 Chardard, R. 1963
32 Eftimiu-Heim, P. 1954 (Chardard, R. 1963)

Zeuxine Lindl.

76 ; tropical and subtropical Old World. 15 ; mostly in Eastern Himalaya, and Nepal, Pakistan, Bangla Desh and Sri Lanka.

gracilis (Breda) Blume

affinis Benth.

20 Mehra, P.N. & Sehgal, R.N. 1974

stratematica (Linn.) Schlecht.

20, 22-64,
30-56,
42, 50, 60,
100 Vij, S.P. & Vohra, N. 1974b
20, 22, 40,
50, 100 Mehra, P.N. & Vij, S.P. 1970, 1972a
42 Tanaka, R. 1965b

sulcata Lindl.

20 Mehra, P.N. & Pal, Y. 1961 ; Mehra, P.N. & Bawa, K.S. 1970
44 Seshagiriah, K.N. 1941

PANDANACEAE R. Br.

3/700 ; Old World tropics, a few warm temperate. 2/40 ; tropical Eastern Himalaya and Andaman Islands, and Bangla Desh and Sri Lanka.

Pandanus Linn. f.

About 600 ; palaeotropics. About 37 ; chiefly in tropical Eastern Himalaya, and Bangla Desh and Sri Lanka.

furcatus Roxb.

60 Mallick, R. & Sharma, A.K. 1966

odoratissimus Linn. f.

60 Ganguly, B. 1959 ; Mallick, R. & Sharma, A.K. 1966 ; Cheah, C. H. & Stone, B.C. 1971, 1973

sanderi Hort.

60 Mallick, R. & Sharma, A.K. 1966

tectorius Soland. ex Park.

c.51, 54,
60 Skottsberg, C. 1955
60 Raghavan, R.S. 1959b

utilis Bory

60 Ganguly, B. 1959 ; Mallick, R. & Sharma, A.K. 1966

PHILYDRACEAE Link

4/5 ; Indo-Malesia and Australia. 1/1 Andaman Islands.

Philydron Banks ex Gaertn.

1 ; Australia, Malaysia, East Asia and the Andamans.

lanuginosum Banks & Soland. ex Gaertn.

16 Winkler, H. 1921 (Tischler, G. 1927a) ; Briggs, B.G. 1966

POACEAE Barnhart

(=Gramineae Juss.)

620/10,000 ; throughout the world. 246/1,175 ; throughout India, inhabit from the seacoast to an elevation of 5,940 m in the Himalaya, and Nepal, Pakistan, Bhutan, Bangla Desh and Sri Lanka.

Aerachne Wight & Arn. ex Chiov.

1 ; Abyssinia, Indo-china, Indo-Malesia and Australia. Kashmir and plains of India.

racemosa (Heyne) Ohwi18 Mehra, P.N. *et al.* 1968*Eleusine verticillata* Roxb.

18 Chandola, R.P. 1959

36 Krishnaswamy, N. 1951

Acroceras Stapf

15 ; tropical Africa, Madagascar and Indo-Malesia. 3 ; Eastern India.

ambrosum (Bal.) Henr.

18 Gould, F.W. & Soderstrom, T.R. 1974 ; Mehra, P.N. & Chaudhary, J. D. 1974

zizanioides (HBK) Dandy

36 Dujardin, M. 1978

oryzoides Stapf

36 Reeder, J.R. 1967 ; Pohl, R.W. & Davison, G. 1971

Aegilops Linn.

25 ; West Asia. 1 ; Kashmir.

tauschii Cosson

14+1-2B Mehra, P.N. & Sharma, M.L. 1975f. 1977

Triticum tauschii (Cosson) Schmalh.

14 Bowden, W.M. 1966 ; Gill, B.S. & Kimber, G. 1974

Aeluropus Trin.

5 ; Mediterranean to India. 1 ; Punjab, salt-marshes of the Arabian sea and Bay of Bengal, and Pakistan and Sri Lanka.

lagopoides (Linn.) Trin.

20 Murin, A. & Chaudhri, I.I. 1970 ; Gould, F.W. & Soderstrom, T.R. 1974

30 Haquar, S.R. & Saeed, M. 1969

Agropyron J. Gaertn.

100-150 ; temperate. 14 ; chiefly in

- North Western India, a few in the Eastern Himalaya.
- canaliculatum* Nevski
28 Mehra, P.N. *et al.* 1968 ; Malik, C.P. & Mary, T.N. 1970b
- caninum* (Linn.) P. Beauv.
28 Peto, F.H. 1930 ; Avdulov, N.P. (Fedorov) ; Tischler, G. 1934 ; Wakar, B.A. (Fedorov) ; Simonet, M. 1935 ; Hartung, M.F. 1946 ; Pólya, L. 1949 ; Hubbard, C.E. 1954 ; Cauderon, Y. 1958, 1962 ; Schulz-Schaeffer, J. & Jurastis, P. 1962 ; Singh, D.N. & Godward, M.B.E. 1963 ; Singh, D.N. 1964 ; Bowden, W.M. 1965b ; Fernandes, A. & Queiros, M. 1969 ; Dewey, D.R. 1974a, 1979
- Roegneria canina* (Linn.) Nevski
28 Löve, A. & Löve, D. 1956b
- Agropyron caninum* × *Elymus sibiricus*
28 Dewey, D.R. 1974a
- clivare* (Trin.) Franch.
28 Nakajima, G. 1936 ; Matsumura, S. *et al.* 1956 ; Sakamoto, S. & Muramatsu, M. 1966
- duthlei* Melderis
28 Mehra, P.N. & Sharma, M.L. 1972, 1975c
- himalayanum* (Nevski) Melderis
14 Mehra, P.N. *et al.* 1968
- repens* (Linn.) P. Beauv.
21, 42 Dewey, D.R. 1974b
28 Singh, D.N. 1964
28, 42 Avdulov, N.P. (Fedorov) ; Heiser, C.B. & Whitaker, T.W. 1948 ; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov) ; Jones, K. 1957
42 Mowery, M. 1929 ; Peto, F.H. 1929, 1930 ; Tischler, G. 1934 ; Wakar, B.A. (Fedorov) ; Simonet, M. 1935 ; Rohwedder, H. 1937 ; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov) ; Ostergren, G. 1940 ; Pólya, L. 1948 ; Senn, H.A. *et al.* 1949 ; Hubbard, C.E. 1954 ; Cauderon, Y. 1962 ; Bowden, W.M. 1965b ; Gadella, T.W.J. & Kliphuis, E. 1966 ; Dewey, D.R. 1967, 1970a, 1972a ; Fernandes, A. & Queiros, M. 1969 ; Kožuharov, S.I. & Petrova, A.V. 1973 ; Johnson, G.A. & Jalal, S.M. 1977 ; Tomkins, D.J. & Grant, W.F. 1978
56 Sakamoto, S. & Muramatsu, M. 1963
- Elytrigia repens* (Linn.) Desv. ex Nevski
42 Löve, A. & Löve, D. 1956b ; Chopanov, P. & Yurtsev, V.N. 1973
- semicostatum* Nees ex Steud.
28 Nielsen, E.L. & Humphrey, L.M. 1937 ; Tateoka, T. 1954 ; Matsumura, S. & Sakamoto, S. 1955 ; Matsumura, S. *et al.* 1956 ; Sakamoto, S. & Muramatsu, M. 1966 ; Mehra, P.N. & Sharma, M.L. 1972, 1975c, 1977
28, 42 Bowden, W.M. 1965b ; Schulz-Schaeffer, J. & Jura, R. 1967
42 Nakajima, G. 1936
- var. *semicostatum*
28 Sharma, M.L. & Sharma, K. 1979
- var. *striatum*
28+1B Sharma, M.L. & Sharma, K. 1978
28, 28+1
acc. Sharma, M.L. & Sharma, K. 1979
- sp.
28 Mehra, P.N. & Remanandan, P. 1973a
- Agrostis* Linn.
150-200 ; cosmopolitan, chiefly North temperate. 26 ; mostly in Himalaya.
- canina* Linn.
14 Sokolovskaya, A.P. (Fedorov) ; Hubbard, C.E. 1954 ; Bowden, W.M. 1960b ; Mehra, P.N. & Sunder, S. 1969 ; Vovk, O.H. 1970
14, 28 Jørgensen, C.A. *et al.* 1958
14, 28, 35,
42, 56 Björkman, S.O. 1951, 1954a, b
16 Heitz, B. 1967b
28 Rohwedder, H. 1937 ; Fernandes, A. & Queiros, M. 1969
42 Chen, C.C. & Hsu, C.C. 1962 ;

Mehra, P.N. *et al.* 1968; Sharma, M.L. & Sharma, K. 1979

gigantea Roth

- 28 Mehra, P.N. & Sunder, S. 1969
28, 42 Vovk, O.H. 1970
42 Sokolovskaya, A.P. (Fedorov); Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Hubbard, C.E. 1954; Jørgensen, C.A. *et al.* 1958; Bowden, W.M. 1960b; Löve, A. & Löve, D. 1964; Mehra, P.N. & Sharma, M.L. 1975c; Löve, A. *et al.* 1980

42, 42+J-

- 48 Björkman, S.O. 1954a

griffithiana (Hook. f.) Bor

- 28 Mehra, P.N. & Sood, O.P. 1974b

himalayana Bor

- 28 Mehra, P.N. & Sharma, M.L. 1972, 1975c

hookeriana Clarke *ex* Hook. f.

- 28 Mehra, P.N. & Sood, O.P. 1976
42 Mehra, P.N. & Sharma, M.L. 1972, 1975c

inaequiglumis Griseb.

- 28 Mehra, P.N. & Sood, O.P. 1976

micrantha Steud.

- 28 Mehra, P.N. & Sood, O.P. 1974b; Mehra, P.N. & Sharma, M.L. 1977
42 Mehra, P.N. & Sood, O.P. 1976

munroana Aitch. & Hemsl.

- 14 Mehra, P.N. & Sunder, S. 1969

Calamagrostis munroana (Aitch. & Hemsl.) Boiss.

- 40 Mehra, P.N. & Kohli, B.L. 1966
42 Mehra, P.N. *et al.* 1968

myriantha Hook. f.

- 28 Mehra, P.N. & Sood, O.P. 1974b; Mehra, P.N. & Sharma, M.L. 1977

var. myriantha

- 28 Mehra, P.N. & Sood, O.P. 1976

var. sikkimensis Hook. f.

- 28 Mehra, P.N. & Sood, O.P. 1976

nagensis Bor

- 28 Mehra, P.N. & Sood, O.P. 1976

nervosa Nees

- 28 Mehra, P.N. & Sood, O.P. 1975

pijosua Trin.

- 42 Mehra, P.N. & Sharma, M.L. 1974c
44 Muniyamma, M. 1968, 1976a; Narayan, K.N. & Muniyamma, M. 1972
c.56 Gould, F.W. & Soderstrom, T.R. 1974

var. ciliata (Trin.) Bor

- 42 Mehra, P.N. & Sood, O.P. 1975

var. wallichiana (Hook. f.) Bor

- 42 Mehra, P.N. & Sood, O.P. 1976

semiverticillata (Forsk.) C. Christ.

- 28 Hubbard, C.E. 1954; Bowden, W.M. & Senn, H.A. 1962; Kliphuis, E. & Wicffering, J.H. 1972
42 Sharma, M.L. & Sharma, K. 1978, 1979

verticillata Vill.

- 14 Brown, W.V. 1950
28 Avdulov, N.P. (Fedorov); Sokolovskaya, A.P. (Fedorov); Parodi, L.R. 1946; Delay, C. 1947

Polypogon semiverticillatus (Forsk.) Hyl.

- 28 Björkman, S.O. 1954a; Fernandes, A. & Queiros, M. 1969

sikkimensis Bor

- 28 Mehra, P.N. & Sood, O.P. 1976

stolonifera Linn.

- 14 Mehra, P.N. & Sunder, S. 1969
28 Hubbard, C.E. 1954; Löve, A. & Löve, D. 1956b; Heitz, B. 1967b; Leveque, M. & Gorenflot, R. 1969; Löve, A. *et al.* 1980
28+3B Mehra, P.N. & Sharma, M.L. 1977
28, 30, 32, 42, 44, 46 Juhl, H. 1952b
28(35) Widen, K.-G. 1971
28, 35, 42 Björkman, S.O. 1954a; Jones, K. 1957
42 Müntzing, A. 1937b; Mehra, P.N. &

Sharma, M.L. 1975c ; Tomkins, D.J.
& Grant, W.F. 1978

ssp. stolonifera

42 Fernandes, A. & Queiros, M. 1959

tenax Sibth.

28 Tomkins, D.J. & Grant, W.F. 1978

triaristata (Hook. f.) Bor

28, 42 Mehra, P.N. & Sood, O.P. 1976

zenkeri Trin.

28 Mehra, P.N. & Sood, O.P. 1974b

Aira Linn.

12 ; North and South temperate,
mountains of tropical and South Africa, and
Mauritius. 2 ; cultivated.

caryophylla Linn.

- 14 Rohweder, H. 1937 ; Wolff, H.D.
1937b ; Delay, C. 1947 ; Hubbard,
C.E. 1954 ; Gould, F.W. 1970 ;
Gadella, T.W.J. & Kliphuis, B. 1971a
14, 28 Bøcher, T.W. & Larsen, K. 1958b ;
Albers, F. 1973
28 Larsen, K. 1960 ; Bowden, W.M. &
Senn, H.A. 1962 ; Taylor, R.L. &
Mulligan, G.A. 1968 ; Pohl, R.W. &
Davidse, G. 1971 ; Albers, F. &
Albers, I. 1973 ; Albers, F. 1978

elegans Willd.

14 Gould, F.W. 1938, 1968 ; Dahlgren,
R. *et al.* 1971 ; Albers, F. 1978

Alloteropsis J.S. Presl *ex* C.B. Presl

10 ; tropical Africa and Asia. 2 ;
Himalaya (usually above 600 m), 1 through-
out India, and Sri Lanka.

cinclina (Linn.) Stapf

- 30 Azam, F. *et al.* 1969
36 Patil, R.P. & Ghosh, K. 1962 ;
Gupta, P.K. 1963a, b, 1969a, 1971 ;
Sindhe, A.N.R. 1967 ; Malik, C.P. &
Mary, T.N. 1970b ; Gould, F.W. &
Soderstrom, T.R. 1974 ; Mehra, P.N.

& Sharma, M.L. 1975b ; Muniyamma
et al. 1976

Axonopus cinclina (Linn.) P. Beauv.

36 Christopher, J. & Abraham, A. 1976

sensilata (R. Br.) Hitchc.

- 18 de Wet, J.M.J. 1958a ; Chen, C.C. &
Hsu, C.C. 1962 ; Gould, F.W. &
Soderstrom, T.R. 1974
34 Moffett, A.A. & Hurcombe, R. 1949 ;
de Wet, J.M.J. & Anderson, I.J. 1955

var. eckloniana (Nees) Hubb.

18 Mehra, P.N. & Chaudhary, J.D. 1976

Alopecurus Linn.

50 ; temperate Eurasia and temperate
South America. 6 ; Himalaya, and Bhutan.

aequalis Sobol.

- 14 Katterman, G. 1930 ; Johnsson, H.
1941 ; Ono, H. & Tateoka, T. 1953 ;
Hubbard, C.E. 1954 ; Tateoka, T.
1954 ; Löve, A. & Löve, D.
1956b ; Jørgensen, C.A. *et al.*
1958 ; Bowden, W.M. 1960b ; Chen,
C.C. & Hsu, C.C. 1962 ; Sokolovskaya,
A.P. (Fedorov) ; Kožuharov, S. &
Kuzmanov, B. 1964b ; Anderson, D.B.
1965 ; Hindáková, M. & Činčura, F.
1967 ; Knaben, G. & Engelskjö, T.
1967 ; Mehra, P.N. & Sunder, S.
1969 ; Mulligan, G.A. & Forsild,
A.E. 1969 ; Mehra, P.N. &
Ramanandan, P. 1973a ; Mehra, P.N.
& Sharma, M.L. 1977

fulvus Smith

- 14 Kattermann, G. 1930 ; Tiescher, G.
1934 ; Rohweder, H. 1937 ; Delay,
J. 1969a

arundinaceus Poir.

- 26, 28 Mehra, P.N. & Sunder, S. 1969
28 Löve, A. & Löve, D. 1948 ; Mehra,
P.N. & Ramanandan, P. 1973a ;
Mehra, P.N. & Sharma, M.L. 1977 ;
Humphries, C.J. *et al.* 1980

ventricosus Pers.

- 28 Strelkova, O.S. (Fedorov) ;

Sokolovskaya, A.P. & Strelkova, O.S.
(Fedorov)

geniculatus Linn.

- 14 Mehra, P.N. & Sood, O.P. 1974b
28 Avdulov, N.P. (Fedorov);
Kattermann, G. 1930; Tischler, G.
1934, 1937; Rohweder, H. 1937;
Johnsson, H. 1941; Parodi, L.R.
1946; Pólya, L. 1948; Hubbard,
C.E. 1954; Löve, A. & Löve, D.
1956b; Rosemark, N.O. 1957;
Bowden, W.M. 1960b; Taylor, R.L.
& Mulligan, G.A. 1968; Fernandes,
A. & Queiros, M. 1969

himalaicus Hook. f.

- 45 Mehra, P.N. & Ramanandan, P. 1973a
56 Strelkova, O.S. (Fedorov)

lagopoides (Linn.) Trin.

- 20 Sindhe, A.N.R. 1980

myosuroides Huds.

- 14 Kattermann, G. 1930; Hubbard, C.E.
1954; Sakamoto, S. & Muramatsu,
M. 1963
28 Mehra, P.N. & Sood, O.P. 1974b;
Mehra, P.N. & Sharma, M.L. 1975f,
1977

agrestis Linn.

- 14 Avdulov, N.P. (Fedorov); Tischler,
G. 1934; Parodi, L.R. 1946; Delav,
C. 1947

nepalensis Trin.

- 14 Mehra, P.N. & Sunder, S. 1969

Andropogon Linn.

113; tropics and subtropics. 9;
Himalaya, Eastern and Southern India, and
drier parts of India, and Nepal, Bhutan and
Sri Lanka - a few introduced.

acledia Clarke

- 40 Olorode, O. 1974b

guyanensis Kunth

- 20 Sindhe, A.N.R. 1977
20, 35, 40,
42, 43 Singh, D.N. & Godward, M.B.E.
1960

20, 40, 42,

- 43, 44 Singh, D.N. 1965c
40 Moffett, A.A. & Hurcombe, R. 1949
Mehra, K.L. 1955a

var. *bisquamulatus* (Hochst.) Hack.

- 40 Kammacher, P. et al. 1973

var. *guyanensis*

- 40 Kammacher, P. et al. 1973

var. *squamulatus* (Hochst.) Stapf

- 40 Kammacher, P. et al. 1973

halkii Hack.

- 60 Reeder, J.R. 1977

lividus Thwaites

- 20 Gupta, B.K. 1969a; Saxena, B.K. &
Gupta, B.K. 1970; Gould, F.W. &
Soderstrom, T.R. 1974

pusillus Roxb.

- 20 Krishnaawamy, N. 1941; Sampath,
S. & Ramanathan, K. 1949; Gould,
F.W. 1956; Rao, T.N.V.R. 1962;
Christopher, J. 1978

tristis Nees

- 20 Mehra, P.N. & Sharma, M.L. 1975a

Anthoxanthum Linn.

20; North temperate and tropical
mountains of Africa and Asia. 6; confined
to Eastern Himalaya.

borii Jain & Pal

- 56 Mehra, P.N. & Sood, O.P. 1976

odoratum Linn.

- 10 Contandriopoulos, J. 1957a; Hedberg,
I. 1964; Poghosian, A.J. et al. 1971;
Kozubarov, S.I. & Petrova, A.V.
1973; Pouca-Comanescu, M. &
Tonciu, M. 1978
10, 15, 20 Hedberg, O. 1967
10, 15, 20,
21 Hedberg, I. 1969
10, 20 Östergren, G. 1942; Bøcher, T.W. &
Larsen, K. 1950; Skalińska, M. et al.
1957; Bøcher, T.W. 1961a; Hedberg,
I. 1970; Topper, H. 1970

- 15, 20, (21) Hedberg, I. 1967
 16 Marshal, E. 1920
 20 Avdulov, N.P. (Fedorov); Hunter, A.W.S. 1934; Tschler, G. 1934; Rohwoder, H. 1937; Miège, J. 1939; Parthasarathy, N. 1939; Guinocet, M. 1943; Delay, C. 1947; Heiser, C.B. & Whitaker, T.W. 1948; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Pólya, L. 1950; Tateoka, T. 1953, 1954; Hubbard, C.E. 1954; Sokolovskaya, A.P. (Fedorov); Hadač, E. & Hasková, V. 1956; Löve, A. & Löve, D. 1956b; Rosemark, N.O. 1957; Hedberg, O. 1958; Rozmus, M. 1958; Bowden, W.M. 1960b; Sorsa, V. 1962; Borrill, M. 1963; Gadella, T.W.J. & Kliphuis, E. 1963; Jones, K. 1964; Gray, D.L. 1965; Polatschek, A. 1966b; Löve, A. & Löve, D. 1968; Taylor, R.L. & Mulligan, G.A. 1968; Fernandes, A. & Queiros, M. 1969; Májovský, J. *et al.* 1970b; Pohl, R.W. & Davidse, G. 1971; Feráková, V. 1972; Lovka, M. *et al.* 1972; Richards, A.J. 1972; Gould, F.W. & Soderstrom, T.R. 1974; Hindáková, M. & Zaborský, J. 1977
 20, 20+1B Mehra, P.N. & Sharma, M.L. 1975c
 20+1B Mehra, P.N. & Sharma, M.L. 1973
 20+2f Shanthamma, C. & Narayan, K.N. 1976-1977

Apluda Linn.

1; Mauritius, Socotra to Formosa and New Caledonia. Throughout India, and Sri Lanka.

mutica Linn.

- 20 Hunter, A.W.S. 1934; Chen, C.C. & Hsu, C.C. 1962; Larsen, K. 1963b; Singh, D.N. 1964; Mitra, K. & Datta, N. 1967; Gould, F.W. & Soderstrom, T.R. 1974; Faruqi, S.A. *et al.* 1979
 20+2B Saxena, B.K. & Gupta, B.K. 1970
 20, 40 Christopher, J. 1978
 20, 40, 70
 140 Murty, U.R. & Satyavathi, D. 1978
 20, 60, 70 Venkateswarlu, J. & Murty, U.R.K. 1968; Murty, U.R. 1973a
 40 Avdulov, N.P. (Fedorov); Celarier, R.P. 1957a; Mehra, P.N. *et al.* 1968

- 60 Bir, S.S., Gill, B.S., Singhal, V.K. & Bedi, Y.S. 1979

aristata Linn.

- 20 Rao, T.N.V.R. 1962; Gupta, P.K. 1963b, 1969a, 1971; Mehra, P.N. *et al.* 1968

ssp. aristata (Linn.) Babu**var. aristata** (Linn.) Hack.

- 20 Mehra, P.N. & Ramanandan, P. 1973b; Mehra, P.N. & Sharma, M.L. 1975a
 20, 60, 70 Venkateswarlu, J. & Murty, U.R.K. 1966a; Murty, U.R. 1973b
 60, 70 Murty, U.R.K. 1965

ssp. mutica Babu**var. mutica** (Linn.) Hack.

- 20 Mehra, P.N. & Sharma, M.L. 1975a

Apocopsis Nees

11; Indo-Malesia and China. 4; Himalaya, and Southern India, a few almost throughout India, and Bhutan and Sri Lanka.

palencae (Trin.) Hochr.

- 14 Mehra, P.N. & Sharma, M.L. 1972, 1975a

Aristida Linn.

About 330; temperate and subtropics. 16; chiefly in the plains of drier Northern and Southern India, and Pakistan and Sri Lanka.

ndaccusiois Linn.

- 22 Avdulov, N.P. (Fedorov); Tateoka, T. 1965a; Gould, F.W. 1966, 1970; Mehra, P.N. *et al.* 1968; Borgen, L. 1969; Gould, F.W. & Soderstrom, T.R. 1970; Malik, C.P. & Tripathi, R.C. 1970; Christopher, J. & Abraham, A. 1971; Reeder, J.R. 1971; Bourreil, P. *et al.* 1974; Reeder, J.R. 1977; Dujardin, M. 1979a

heymanii Regel

- 22 Mészáros, J. & Soják, J. 1972

depressa Retz.

- 22 Narayan, K.N. & Shanthamma, C. 1968; Shanthamma, C. & Narayan, K.N. 1976, 1976-1977
44 Janaki Ammal, E.K. (D. 1945)

fusculata Trin. & Rupr.var. *fusculata*

- 22 Bourreil, P. & Geslot, A. 1971

hystrix Linn. f.

- 22 Narayan, K.N. & Shanthamma, C. 1968; Shanthamma, C. & Narayan, K.N. 1976, 1976-1977

pingens Desf.

- 44 Reese, G. 1957

setacea Retz.

- 22 Shanthamma, C. & Narayan, K.N. 1976, 1976-1977
44 Christopher, J. & Abraham, A. 1971

Arrhenatherum P. Beauv.

6; Europe and Mediterranean. 1; introduced.

elatius (Linn.) J.S. & C.B. Presl

- 14 Hill, H.D. 1965
28 Aase, H.C. & Powers, L.R. 1926; Avdulov, N.P. (Fedorov); Nakajima, G. 1931; Guinocbet, M. 1943; Parodi, L.R. 1946; Delay, C. 1947; Pólya, L. 1949; Hubbard, C.E. 1954; Toteoka, T. 1954; Shibata, K. 1956; Morrison, J.W. & Rajhatby, T. 1960b; Pfitzenmeyer, C.D.C. 1962; Curran, P.L. 1968; Kožuharov, S.I. & Kuzmanov, B.A. 1968; Delay, J. 1970b; Májovský, J. *et al.* 1970b
42 Bowden, W.M. & Senn, H.A. 1962
56 Mehra, P.N. & Sharma, M.L. 1975c

avenaceum P. Beauv.

- 40 Davies, J.G. 1927

Arthraxon P. Beauv.

25; tropical Africa, Madagascar, Mauritius and from Indo-Malesia to Japan. 21; chiefly in Himalaya and Western and

Southern India, and Nepal, Bhutan and Sri Lanka.

breviaristatus Hack.

- 18 Mehra, P.N. & Kalia, V. 1975

castratus (Griff.) Narayanaswami ex Bor

- 16 Mehra, P.N. & Kalia, V. 1974
18 Larsen, K. 1963b; Roy, R.P. & Azam, F. 1967
36 Gould, F.W. & Soderstrom, T.R. 1974

depressus Stapf

- 40 Christopher, J. 1978

echinatus Hochst.

- 18 Mehra, P.N. & Kalia, V. 1974

hispidus (Thunb.) Makino

- 36 Avdulov, N.P. (Fedorov); Tateoka, T. 1953, 1954; Celarier, R.P. 1957a; Chen, C.C. & Hsu, C.C. 1962; Mehra, P.N. & Sharma, M.L. 1975a
40 Avdulov, N.P. (Fedorov)

ciliaris P. Beauv.

- 36 Avdulov, N.P. (Fedorov); Delay, C. 1947
40 Avdulov, N.P. (Fedorov)

lanceolatus (Roxb.) Hochst.

- 16 Mehra, P.N. & Kalia, V. 1975
20 Mehra, P.N. *et al.* 1968
30 Mehra, P.N. & Sharma, M.L. 1973, 1975a; Patil, R.B. & D'Cruz, R. 1973; Sharma, M.L. & Sharma, K. 1979
36 Mehra, K.L. 1965

lanceifolius (Trin.) Hochst.

- 18 Mehra, P.N. & Sharma, M.L. 1972, 1973, 1975a; Patil, R.B. & D'Cruz, R. 1973; Gould, F.W. & Soderstrom, T.R. 1974
36 Mehra, P.N. & Kalia, V. 1975

meibohdii Stapf

- 18, 20 Patil, R.B. & D'Cruz, R. 1973

olicans (Nees) Hochst.

- 36 Mehra, P.N. & Sharma, M.L. 1972, 1975a

undus (Steud.) Hochst.

- 18 Mehra, P.N. & Kalia, V. 1975

prionodes (Steud.) Dundy

- 20, 36 Faruqi, S.A. *et al.* 1979
 26 Patil, R.B. & D'Cruz, R. 1973
 30 Mehra, P.N. *et al.* 1968
 36 Mehra, K.L. 1965 ; Tateoka, T. 1965a

quartiflorus (A. Rich.) Nash

- 10 Sindhe, A.N.R. *et al.* 1975
 36 Gould, F.W. 1966 ; Gould, F.W. & Soderstrom, T.R. 1970 ; Pohl, R.W. & Davidse, G. 1971 ; Mehra, P.N. & Sharma, M.L. 1975a ; Christopher, J. 1978 ; Dujardin, M. 1979b
 38 Bir, S.S., Gill, B.S. *et al.* 1979
 40 Sindhe, A.N.R. 1967

sikkimensis Bor

- 16 Mehra, P.N. & Sharma, M.L. 1973, 1975a

Arundinaria Michx.

150 ; warm regions of the world. 12 ; chiefly in Eastern Himalaya, and Nepal, Bhutan and Sri Lanka - a few cultivated.

japonica Sieb. & Zucc. ex Steud.

- 48 Mehra, P.N. & Sharma, M.L. 1972, 1975e

macgregoriae Munro

- 48 Mehra, P.N. & Sharma, M.L. 1975e

Arundinella Raddi

55 ; warmer parts of the world. 21 ; chiefly in the Eastern Himalaya, and Southern and Western India, and Nepal and Sri Lanka.

bengalensis (Spreng.) Druce

- 20+1B Azam, F. & Roy, R.P. 1969
 32 Phipps, J.B. & Mahon, J.B. 1970
 32+2B Mehra, P.N. & Sharma, M.L. 1975d
 34 Mehra, P.N. & Kalia, V. 1974
 36 Mehra, P.N. & Sharma, M.L. 1972

leptariphylla (Trin.) Trin. ex Hook. f.

- 20 Tateoka, T. 1959b

clliata (Roxb.) Nees

- 20 Christopher, J. & Abraham, A. 1971

decempedalis (O. Kuntze) Janowski

- 60 Mehra, P.N. & Kalia, V. 1974

hookeri Munro ex Koenig

- 14 Mehra, P.N. & Sharma, M.L. 1972, 1975d

khaseena Nees

- 18 Mehra, P.N. & Kalia, V. 1974

leptochloa (Nees ex Steud.) Hook. f.

- 20 Tateoka, T. 1959a ; Christopher, J. & Abraham, A. 1971

mesophylla Nees ex Steud.

- 16 Narayan, K.N. & Muniyamma, M. 1969, 1972 ; Christopher, J. & Abraham, A. 1971

metzii Hochst.

- 20 Sindhe, A.N.R. 1969 ; Sindhe, A.N.R. Narayan, K.N. 1976

nepalensis Trin.

- 20 Larsen, K. 1963b ; Christopher, J. & Abraham, A. 1971
 20, 40 Li, Y.H. *et al.* 1966
 28 Mehra, P.N. *et al.* 1968
 40 Mehra, P.N. & Sharma, M.L. 1975d
 50 Mehra, P.N. & Kalia, V. 1976
 54 de Wet, J.M.J. 1958a, 1960a

pamila (Hochst.) Steud.

- 20 Christopher, J. & Abraham, A. 1971 ; Mehra, P.N. & Kalia, V. 1976

purpurea Hochst.

- 20 Narayan, K.N. & Muniyamma, M. 1972 ; Sindhe, A.N.R. 1980

fuscata Hook. f.

- 20 Narayan, K.N. & Muniyamma, M. 1969

setosa Trin.

- 16 Christopher, J. & Abraham, A. 1971
 20 Ramanathan, C. 1950 ; Tateoka, T. 1960 ; Sindhe, A.N.R. 1980
 32 Mehra, P.N. & Sharma, M.L. 1975d
 32,
 c.48, 54 Larsen, K. 1963b
 54 Li, Y.H. *et al.* 1966
 80 Mehra, P.N. & Kalia, V. 1974

574 POACEAE

villosa Arn.

14 Tateoka, T. 1959b, 1960

Arundo Linn.

12 ; tropics and temperate. 1 ; wild and/or cultivated throughout India, and Nepal and Bangla Desh.

donax Linn.

- c.60 Larsen, K. 1961b
 70 Mehra, P.N. & Kalia, V. 1975
 72 Christopher, J. & Abraham, A. 1971
 >100 Avdulov, N.P. (Fedorov)
 108 Løve, A. & Løve, D. 1973
 110 Hunter, A.W.S. 1934 ; Delay, C. 1947 ; Heiser, C.B. & Whitaker, T.W. 1948 ; Pizzolongo, P. 1962 ; Fernandes, A. & Queiros, M. 1969
 112 Gorenflot, R. *et al.* 1972a

var. *versicolor* (Miller) Stokes

108 Christopher, J. & Abraham, A. 1971

Avena Linn.

70 ; temperate and the mountains of tropics. 8 ; chiefly in North Western Himalaya, and Sri Lanka - a few cultivated.

barbata Poell. ex Link.

- 14 Van Loon, J.C. 1974
 14, 28 Rajnathy, T. & Morrison, J.W. 1959 ; Fernandes, A. & Queiros, M. 1969
 28 Kihara, H. 1919b, 1924 ; Huskins, C.L. 1926, 1927 ; Nishiyama, I. 1929, 1936 ; Emme, H.K. (Fedorov) ; Spier, J.D. 1934 ; Shepeleva, Y.M. (Fedorov) ; Delay, C. 1947 ; Heiser, C.B. & Whitaker, T.W. 1948 ; Martinoli, G. 1955b ; Tanaka, S. & Nishiyama, I. 1960 ; Tanaka, R. 1961 ; Thomas, P.T. 1962 ; Holdan, J.H.W. 1966, 1969 ; Ladzinsky, G. & Zohary, D. 1968 ; Mehra, P.N. *et al.* 1968 ; Sadasivaiah, R.S. & Rajnathy, T. 1968 ; Strid, A. 1971 ; Kliphuis, E. & Wieffering, J.H. 1972 ; Ladzinsky, G. 1974 ; Faruqi, S.A. & Quraish, H.B. 1979
 32 Nikolaeva, A.G. (Fedorov)
 42 Labadie, J.P. 1976

barbata (2n = 28) × *sativa* (2n = 42)

44 Thomas, H. *et al.* 1975

byzantina C. Koch

- 42 Kihara, H. 1919b, 1924 ; Huskins, C.L. 1927 ; Shepeleva, Y.M. (Fedorov) ; Rajnathy, T. & Morrison, J.W. 1959 ; Thomas, P.T. 1962 ; Fernandes, A. & Queiros, M. 1969
 44 Nikolaeva, A.G. (Fedorov)

fatua Linn.

- 14, 28 Mehra, P.N. & Ramanandan, P. 1973a
 42 Kihara, H. 1919b, 1924 ; Huskins, C.L. 1926, 1927 ; Nishiyama, I. 1929 ; Emme, H.K. (Fedorov) ; Philp, J. 1938 ; Shepeleva, Y.M. (Fedorov) ; Martinoli, G. 1955b ; Nakao, S. & Mori, S. 1956 ; Rajnathy, T. & Morrison, J.W. 1959 ; Mehra, P.N. *et al.* 1968 ; Faruqi, S.A. & Quraish, H.B. 1979 ; Václavová, M. & Májovský, J. 1980
 48 Nikolaeva, A.G. (Fedorov)

var. *fatua*

42 Gould, F.W. 1968

var. *glaberrata*

28 Mehra, P.N. *et al.* 1968

indoviciana Durand

- 42 Huskins, C.L. 1926, 1927 ; Emme, H.K. (Fedorov) ; Hubbard, C.B. 1954 ; Fernandes, A. & Queiros, M. 1969 ; Mehra, P.N. & Sharma, M.L. 1975c
 44 Nikolaeva, A.G. (Fedorov)

sativa Linn.

- 15, 19, 20,
 23 Leggett, J.M. 1977
 20, 42 Gauthier, F.M. & McGinnis, R.C. 1968
 20-22,
 41-44 Larik, A.S. & Thomas, H. 1979
 40, 40+20,
 41, 42 Michaud, R. & Gauthier, F.M. 1970
 40-42 Hafiz, H.M.I. 1980
 41 Ilyas, H. & Muhammad, H. 1977
 41, 42, 43 Larik, A.S. 1978
 42 Kihara, H. 1919b, 1924 ; Wings, O. 1925 ; Anze, H.C. & Powers, L.R.

1926; Huskins, C.L. 1926; Church, G.L. 1929a; Emme, H.K. (Fedorov); Shepeleva, Y.M. (Fedorov); Rajhathy, T. & Morrison, J.W. 1959; Rajhathy, T. 1963; Marenah, L.J. & Holden, J.H.W. 1967; Mehra, P.N. *et al.* 1968; Thomas, H. 1968; Sadasivaiah, R.S. *et al.* 1969; Foreberg, R.A. & Wang, S. 1971; Ladizinsky, G. & Zohary, D. 1971; Aung, T. & Thomas, H. 1978; Sharma, D.C. 1978; Faruqi, S.A. & Quraish, H.B. 1979; Kliphuis, E. & Wicffering, J.H. 1979

42+2f Dherawattana, A. & Sadauga, K. 1973

42, 63 Müntzing, A. 1937b

48 Nikolaeva, A.G. (Fedorov)

sterilis Linn.

28 Martinoli, G. 1955b

42 Kihara, H. 1919b, 1924; Huskins, C.L. 1926, 1927; Nishiyama, I. 1929; Emme, H.K. (Fedorov); Spier, J.D. 1934; Delay, C. 1947; Nakao, S. & Mori, S. 1956; Rajhathy, T. & Morrison, J.W. 1959; Thomas, P.T. 1962; Holden, J.H.W. 1969; Dahlgren, R. *et al.* 1971; Faruqi, S.A. & Quraish, H.B. 1979

44 Nikolaeva, A.G. (Fedorov)

ssp. sterilis

42 Labadie, J.P. 1979

Axonopus P. Beauv.

35; tropical South America. 2; naturalized in India, and Sri Lanka.

affinis A. Chase

20 Gould, F.W. & Soderstrom, T.R. 1967

40 Davidse, G. & Pohl, R.W. 1972a

40, 80 Gould, F.W. 1968

54 Brown, W.V. 1946a

80 Burton, G.W. 1942; Brown, W.V. 1948; Gould, F.W. & Soderstrom, T.R. 1970

compressus (Swartz) P. Beauv.

40 Janaki Ammal (D. 1945); Narayan, K.N. & Sindh, A.N.R. 1963; Pohl, R.W. & Davidse, G. 1971; Mehra, P.N. & Sharma, M.L. 1975b; Olorode, O. 1975; Christopher, J. & Abraham, A. 1976; Muniyamma *et al.* 1976

40, 80, 98,

100 Davidse, G. & Pohl, R.W. 1972a

50, 60 Nuñez, O. (Parodi, L.R. 1946)

c.60 Parodi, L.R. 1946; Nuñez, O. 1952

60 Dujardin, M. 1979b; Mehra, P.N. & Chaudhary, J.D. 1976

80 Mehra, P.N. & Chaudhary, J.D. 1974

Paspalum platycaulon Poir.

40 Sharma, A.K. & Jhuri, L. 1959

var. compressus

60 Hickenbick, M.C.M. *et al.* 1975

Bambusa Schreb.

70; tropical and subtropical Asia, Africa and America. 15; chiefly in tropical Eastern India, and Bangla Desh and Sri Lanka - a few cultivated.

ambusana Lindl.

72 Sarkar, A.K., Mallick, R. *et al.* 1977

arundinacea (Retz.) Willd.*

70 Parthasarathy, N. 1946

72 Sarkar, A.K., Mallick, R. *et al.* 1977; Sindh, A.N.R. 1977

arundinacea (Retz.) Roxb.

bambos Voss

72 Janaki Ammal, E.K. 1938a

glaucescens (Willd.) Sieb. *ex* Munro

nana Roxb.

72 Uchikawa (Kihara, H. *et al.* 1931); Yamaura, A. 1933

multiplex (Lour.) Rauschel

48 Gould, F.W. & Soderstrom, T.R. 1974

*The combination *Bambusa arundinacea* was made by Roxb. (FHD : 712).

72 Uchikawa, I. 1935

polymorpha Munro

72 Janaki Annual (D. 1945)

tubifera Roxb.

70 Christopher, J. & Abraham, A. 1971

volgaris Schrad.72 Janaki Annual, E.K. (D. 1945);
Sarkar, A.K., Mallick, R. *et al.* 1977*Bothriochloa* O. Kuntze20; warmer parts of the world. 16;
chiefly in Western and Southern India, and
Sri Lanka.*caucasica* (Trin.) C.E. Hubb.40 Celarier, R.P. & Harlan, J.R. 1957;
Harlan, J.R. *et al.* 1958; Chheda,
H.R. & Harlan, J.R. 1962; Mehra,
K.L. *et al.* 1962*Andropogon caucasicus* Trin.

c.42 Gould, F.W. 1956

compressa (Hook. f.) Henr.20 de Wet, J.M.J. *et al.* 1963; Harlan,
J.R. *et al.* 1964*concanensis* (Hook. f.) Henr.20 de Wet, J.M.J. *et al.* 1963; Harlan,
J.R. *et al.* 1964*foulkesii* (Hook. f.) Henr.20, 40 de Wet, J.M.J. *et al.* 1963*glabra* (Roxb.) A. Camus34-44, 40 Srivastava, A.K. 1979
40 Chen, C.C. & Hsu, C.C. 1962;
Mehra, K.L. *et al.* 1962; de Wet,
J.M.J. *et al.* 1963; Tateoka, Y. 1965a

40, 50, 60,

80 Celarier, R.P. & Harlan, J.R. 1955,
1956*Andropogon glaber* Roxb.

40 Gould, F.W. 1956

grabauii (Haines) Bor40 Harlan, J.R. *et al.* 1964; Faruqi,
S.A. *et al.* 197940, 60 de Wet, J.M.J. *et al.* 1963*Bothriochloa grabauii* × *Dichanthium annulatum*

50 Srivastava, A.K. 1980

insculpta (Hochst.) A. Camus50 de Wet, J.M.J. *et al.* 1963
50, 60 de Wet, J.M.J. & Higgins, M.L. 1963,
1964
60 de Wet, J.M.J. & Anderson, L.J.
1956; Celarier, R.P. & Harlan, J.R.
1957; de Wet, J.M.J. 1958a; Mehra,
K.L. *et al.* 1962; Mehra, P.N. *et al.*
1968*Andropogon insculptus* Hochst.

60 Gould, F.W. 1956

intermedia (R. Br.) A. Camus40 de Wet, J.M.J., Borgaonkar, D.S. &
Chheda, H.R. 1961; Chheda, H.R.
& Harlan, J.R. 1962; Larsen, K.
1963b; Mehra, P.N. *et al.* 1968;
Faruqi, S.A. *et al.* 1979
40, 50 Srivastava, A.K. 1979
40, 50, 60,
80 Faruqi, S.A. 1964
40, 60 Oke, J.G. 1950; Celarier, R.P. &
Mehra, K.L. 1958; Harlan, J.R. *et*
al. 1958; Mehra, K.L. *et al.* 1962
40, 60, 80 de Wet, J.M.J. *et al.* 1963*Andropogon intermedius* R. Br.40, 60 Gould, F.W. 1956
c.70 Avdulov, N.P. (Fedorov)var. *punctata* (Roxb.) Keng

40 Mehra, P.N. & Sharma, M.L. 1975a

Bothriochloa intermedia × *Dichanthium annulatum*

40, 50 Srivastava, A.K. 1980

Ischaemum (Linn.) Keag20, 40 Mehra, P.N. & Remanandan, P.
1973b
40 Chheda, H.R. & Harlan, J.R. 1962;
Skalińska, M. *et al.* 1968; Kliphois,
E. & Wierfling, J.H. 1979
40, 50 Mehra, K.L. *et al.* 1962
40, 50, 60 Celarier, R.P. 1957b; Celarier, R.P.
& Harlan, J.R. 1957; Celarier, R.P.
& Mehra, K.L. 1958; Harlan, J.R.
et al. 1958
40, 60 Celarier, R.P. & Harlan, J.R. 1958;

- de Wet, J.M.J. *et al.* 1963 ; Faruqi, S.A. *et al.* 1979
- 50, 60 Celarier, R.P. & Harlan, J.R. 1958 ; Chheda, H.R. & Harlan, J.R. 1962 ; de Wet, J.M.J. *et al.* 1963
- 60 Harlan, J.R. *et al.* 1964
- Andropogon ischaemum* Linn.
- 40 Brown, W.V. 1950
- 40, 50 Mehra, K.L. 1955a ; Gould, F.W. 1956
- 45 Krishnaswamy, N. 1941
- kuntzeana* (Hack.) Henr.
- 20, 40 de Wet, J.M.J. *et al.* 1963
- 40 Chheda, H.R. *et al.* 1961 ; Chheda, H.R. & Harlan, J.R. 1962 ; Bir, S.S., Gill, B.S., Singhal, V.K. & Bedi, Y.S. 1979
- longifolia* (Hack.) Bor
- 20 de Wet, J.M.J. *et al.* 1963 ; de Wet, J.M.J. & Higgins, M.L. 1964 ; Faruqi, S.A. 1964
- odorata* (Lisboa) A. Camus
- 40 Celarier, R.P. & Harlan, J.R. 1957 ; Chheda, H.R. & Harlan, J.R. 1962 ; Mehra, K.L. *et al.* 1962 ; de Wet, J.M.J. *et al.* 1963 ; Mehra, P.N. *et al.* 1968
- Amphilophis odorata* (Lisboa) A. Camus
- 40 Mehra, K.L. 1955a
- oryztorum* (Hack.) Bor
- 40 de Wet, J.M.J. *et al.* 1963
- pertusa* (Linn.) A. Camus
- 40 Celarier, R.P. & Harlan, J.R. 1957 ; Mehra, K.L. *et al.* 1962 ; de Wet, J.M.J. *et al.* 1963 ; Gupta, P.K. 1963b, 1969a, 1971 ; Tateoka, T. 1965a ; Mitra, K. & Datta, N. 1967 ; Gould, F.W. & Soderstrom, T.R. 1970, 1974 ; Ismail, F.-A. 1971 ; Pohl, R.W. & Davidse, G. 1971 ; Davidse, G. & Pohl, R.W. 1972b ; Mehra, P.N. & Sharma, M.L. 1975a ; Christopher, J. 1978 ; Sharma, M.L. & Sharma, K. 1979 ; Roy, G.P. 1981
- 40, 60 Celarier, R.P. & Harlan, J.R. 1957 ; Celarier, R.P. & Mehra, K.L. 1958 ; Harlan, J.R. *et al.* 1958 ; de Wet, J.M.J. & Higgins, M.L. 1963, 1964
- 60 Chheda, H.R. *et al.* 1961 ; Mehra, P.N. *et al.* 1968 ; Malik, C.P. & Tripathi, R.C. 1970
- Amphilophis pertusa* (Linn.) Nash *ex* Stapf
- 40 Sampath, S. & Ramanathan, K. 1949
- Andropogon pertusus* (Linn.) Willd.
- 40, 60 Gould, F.W. 1956
- pseudoischaemum* (Nees) Henr.
- 40 Faruqi, S.A. *et al.* 1979
- woodrowii* (Hook. f.) A. Camus
- 40 de Wet, J.M.J. *et al.* 1963
- Bouteloua* Lag. *mut.* P. Beauv.
- 40 ; Canada to South America, especially South West United States. 3 ; introduced.
- aristoides* (HBK) Griseb.
- 40 Gould, F.W. 1960 ; Reeder, J.R. 1971
- curtipendula* (Michx.) Torr.
- 20 Gould, F.W. 1958
- 20, 40 Reeder, J.R. 1977
- 20, 40-43, 58-64, 69-103 Gould, F.W. & Kapadia, Z.J. 1964 ; Kapadia, Z.J. & Gould, F.W. 1964
- 28, 35, 40, 45, 56, 70, 98 Fuhs, J.L. 1942
- 40 Snyder, L.A. & Harlan, J.R. 1953 ; Mohamed, A.H. & Gould, F.W. 1965
- 40, 52, 74, 80, 82, 86, 96 Freter, L.E. & Brown, W.V. 1955
- 42 Nielsen, E.L. & Humphrey, L.M. 1937
- 85-101 Harlan, J.R. 1949
- gracilis* (HBK) Lag. *ex* Steud.
- 20 Gould, F.W. 1966 ; Reeder, J.R. 1977
- 20, 40, 42, 60, 84 Snyder, L.A. & Harlan, J.R. 1953
- 21, 28, 35 42, 61, 77 Fuhs, J.L. 1942
- 42 Nielsen, E.L. & Humphrey, L.M. 1937

40, 60 Gould, F.W. 1969

Brachiaria Griseb.

50 ; warmer parts of the World. 18 ; chiefly in Southern India, and Sri Lanka a few introduced and naturalized.

brizantha (Hochst. ex A. Rich.) Stapf

- 36 de Wet, J.M.J. 1960a ; Tateoka, T. 1965a ; Nath, J. *et al.* 1970 ; Sinha, R.R.P. & Jha, R.P. 1972 ; Kammacher, P. *et al.* 1973 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Dujardin, M. 1978
 36 (54) Nath, J. & Swaminathan, M.S. 1957
 54 Moffett, A.A. & Hurcombe, R. 1949 ; Mehra, P.N. *et al.* 1968 ; Sharma, M.L. & Kaur, S. 1980

decumbens Stapf

- 36 Zerpa, D.M. de 1952 ; Nath, J. *et al.* 1970
 80 Azam, F. *et al.* 1969

deflexa Robyns

- 18 Trouin, M. 1972
 20 Olorode, O. 1974b

distachya (Linn.) Stapf

- 36 Mehra, P.N. *et al.* 1968 ; Muniyamma, M. 1968, 1976b ; Gould, F.W. & Soderstrom, T.R. 1974 ; Sharma, M.L. & Kaur, S. 1980
 72 Tateoka, T. 1965a ; Mehra, P.N. & Sharma, M.L. 1975b ; Mehra, P.N. & Chaudhary, J.D. 1976

Panicum distachyon Linn.

- 36 Krishnaswamy, N. 1941

erectiformis (Sibth. & Smith) Griseb.

- 18 Delay, C. 1951 ; Narayan, K.N. & Muniyamma, M. 1969 ; Malik, C.P. & Mary, T.N. 1970b ; Sarkar, A.K., Datta, N., Chatterjee, U. & Datta, R. 1973
 36 Mehra, P.N. & Sharma, M.L. 1975f ; Sharma, M.L. & Sharma, K. 1979 ; Sharma, M.L. & Kaur, S. 1980

Panicum erectiforme Sibth.

- 18 Avdulov, N.P. 1928

isachne Roth

- 18 Krishnaswamy, N. 1941
 36 Chandola, R.P. 1959

lata (Schum.) C.E. Hubb.

- 28 Ismail, F.-A. 1971
 48 Nath, J. & Swaminathan, M.S. 1957 ; Nath, J. *et al.* 1970

milliformis (Presl.) A. Chase

- 54 Malik, C.P. & Tripathi, R.C. 1970 ; Chatterji, A.K. 1975
 54-56 Larsen, K. 1963b
 72 Tateoka, T. 1965c ; Gould, F.W. & Soderstrom, T.R. 1974

mutica (Forsk.) Stapf

- 18 Gould, F.W. & Soderstrom, T.R. 1974
 36 Hunter, A.W.S. 1934 ; Nath, J. & Swaminathan, M.S. 1957 ; Muniyamma, M. 1968 ; Nath, J. *et al.* 1970 ; Narayan, K.N. & Muniyamma, M. 1972 ; Sinha, R.R.P. & Jha, R.P. 1972 ; Kammacher, P. *et al.* 1973 ; Davidse, G. & Pohl, R.W. 1974 ; Muniyama, M. & Narayan, K.N. 1975 ; Christopher, J. & Abraham, A. 1976 ; Dujardin, M. 1979a
 36, 72+18 Dujardin, M. 1978
 52 Sharma, M.L. & Kaur, S. 1980 ; Mehra, P.N. & Kohli, B.L. 1966 ; Mehra, P.N. *et al.* 1968

Panicum purpurascens Raddi

- 36 Burton, G.W. 1942 ; Warmke, H.E. 1951 ; Gould, F.W. & Soderstrom, T.R. 1967 ; Davidse, G. & Pohl, R.W. 1972a

paspaloides (Presl.) C.E. Hubb.

- 36 Janaki Ammal, E.K. (D. 1945) ; Sharma, M.L. & Kaur, S. 1980
 36, 42 Gould, F.W. & Soderstrom, T.R. 1974

ramosa (Linn.) Stapf

- 14 Mehra, P.N. & Chaudhary, J.D. 1974
 28 Sinha, R.R.P. & Jha, R.P. 1972
 32 Patil, R.P. & Ghosh, K. 1962 ; Mehra, P.N. *et al.* 1968
 32, 36 Mehra, P.N. & Sharma, M.L. 1975b ; Sharma, M.L. & Sharma, K. 1979 ; Sharma, M.L. & Kaur, S. 1980

- 36 Mulay, B.N. & Leelamma, P.J. 1956 ;
Mulay, B.N. & Prasad, M.K. 1956 ;
Singh, D.N. & Godward, M.B.E.
1960 ; Gupta, P.K. 1969a, 1971
- 36, 46 Singh, D.N. 1965c
- 36, 72 Christopher, J. & Abraham, A. 1976
- 42 Malik, C.P. & Tripathi, R.C. 1970 ;
Saxena, B.K. & Gupta, B.K. 1970
- 72 Muniyamma, M. 1968 ; Narayan,
K.N. & Muniyamma, M. 1972
- Panicum ramosum* Linn.
- 10 Narayan, K.N. 1962
- reptans* (Linn.) Gard. & C.E. Hubb.
- 14 Sharma, A.K. & Jhuri, L. 1959 ;
Muniyamma, M. 1968 ; Malik, C.P.
& Mary, T.N. 1970b ; Malik, C.P. &
Tripathi, R.C. 1970 ; Sinha, R.R.P.
& Jha, R.P. 1972 ; Christopher, J. &
Abraham, A. 1976 ; Sharma, M.L. &
Sharma, K. 1979 ; Sarkar, A.K.,
Chakraverty, M. *et al.* 1980 ; Sharma,
M.L. & Kaur, S. 1980
- 14, 18 Gould, F.W. & Soderstrom, T.R.
1974
- 18 Chatterjee, B.N. & Prakash, R. 1955 ;
Sarkar, A.K., Datta, N. *et al.* 1973
- Panicum reptans* Linn.
- 14 Brown, W.V. 1950 ; Gould, F.W.
1968 ; Pohl, R.W. & Davidse, G.
1971
- Urochloa reptans* (Linn.) Stapf
- 14 Raman, V.S. *et al.* 1959b
- semimodiolata* (Hochst.) Stapf
- 18, 36 Narayan, K.N. & Muniyamma, M.
1969
- 36 Muniyamma, M. 1976b ; Sindhe,
A.N.R. 1980
- ovniverticillata* (Rottb.) Alston
- 36 Muniyamma, M. 1961 ; Narayan,
K.N. & Muniyamma, M. 1972
- setigera* (Retz.) C.E. Hubb.
- c.72 Gould, F.W. & Soderstrom, T.R.
1974
- 36 Narayan, K.N. & Muniyamma, M.
1967, 1972 ; Muniyamma, M. 1968
- Urochloa setigera* (Retz.) Stapf
- 36 Raman, V.S. *et al.* 1959b ; Sindia,
K.P.S. 1971b
- subquadripars* (Trin.) Hitchc.
- c.72 Larson, K. 1963b
- 72 Chen, C. (Hsu, C. 1964) ; Pohl,
R.W. & Davidse, G. 1971 ; Davidse,
G. & Pohl, R.W. 1972b ; Hsu, C.-C.
1972 ; Gould, F.W. & Soderstrom,
T.R. 1974
- 84 Mehra, P.N. & Chaudhary, J.D.
1974
- villosa* (Lam.) A. Camus
- 36 Chen, C. & Hsu, C. 1961
- var. *barbata* Bor
- 36 Mehra, P.N. & Sharma, M.L. 1975b
- var. *villosa*
- 36 Mehra, P.N. & Sharma, M.L. 1975b
- Brachypodium* P. Beauv.
- 10 ; temperate and tropical moun-
tains. 3 ; Himalaya and Nilgiri Hills, and
Sri Lanka.
- distachyon* (Linn.) P. Beauv.
- 10 Kožuharov, S.I. & Petrova, A.V.
1973 ; Kožuharov, S., Petrova, A. &
Stoava, M. 1974
- 28 Mimeur, G. 1950 ; Gould, F.W.
1970 ; Kliphuis, E. & Wieffering,
J.H. 1972
- 30 Avdulov, N.P. (Fedorov) ; Delay, C.
1947 ; Tateoka, T. 1956a, 1962c
- Trachynia distachya* (Linn.) Link
- 30 Humphries, C.J. *et al.* 1978 ; Avdulov,
N.P. (Fedorov) ; Löve, A. & Löve,
D. 1961a ; Fernandes A. & Queiros,
M. 1969
- pinnatum* (Linn.) P. Beauv.
- 14, 16, 28 Kožuharov, S.I. & Petrova, A.V.
1973 ; Kožuharov, S. *et al.* 1974
- 28 Kattermann, G. 1930 ; Tischler, G.
1934 ; Löve, A. & Löve, D. 1944b ;
Tateoka, T. 1954, 1956a ; Hubbard,
C.E. 1954 ; Gadella, T.W.J. &

Kliphuis, E. 1968a; Fernandes, A. & Queiros, M. 1969; Leveque, M. & Gorenflot, R. 1969

stylaticum (Huds.) P. Beauv.

- 14, 18, 42 Mehra, P.N. & Sunder, S. 1969
 18 Avdulov, N.P. (Fedorov); Tischler, G. 1934; Ono, H. & Tateoka, T. 1953; Tateoka, T. 1953, 1956a; Hubbard, C.E. 1954; Matsumura, S. *et al.* 1956; Larsen, K. 1960; Hedberg, I. & Hedberg, O. 1961; Mehra, P.N. *et al.* 1968; Májovský, J. *et al.* 1970b; Saxena, B.K. & Gupta, B.K. 1970; Feráková, V. 1972; Mehra, P.N. & Romanandan, P. 1973a; Mehra, P.N. & Sharma, M.L. 1975c, 1977

18, 28,

42+2,

- 56 Kožuharov, S., Petrova, A. & Stoeva, M. 1974

18, 28, 44,

- 56 Kožuharov, S.I. & Petrova, A.V. 1973

28 Mehra, P.N. & Sood, O.P. 1974b

28+1B Mehra, P.N. & Sood, O.P. 1975

sp.

- 42 Mehra, P.N. & Sunder, S. 1969

Briza Linn.

20; temperate and South America. 3; North Western India, and Sri Lanka - a few cultivated, also found as escapes.

maxima Linn.

- 14 Avdulov, N.P. (Fedorov); Parodi, L.R. 1946; Delay, C. 1947; Saura, F. 1947; Tateoka, T. 1953; Hubbard, C.E. 1954; Larsen, K. 1954a; Fernandes, A. & Queiros, M. 1969; Bramwell, D. *et al.* 1971; Christopher, J. & Abraham, A. 1971; Dahlgren, R. *et al.* 1971; Kožuharov, S.I. & Petrova, A.V. 1973; Van Loon, J.C. 1974; Murray, B.G. 1975; Van Loon, J. Chr. & Kieft, B. 1980

media Linn.

- 14 Avdulov, N.P. (Fedorov); Kattermann, G. 1930, 1931; Tischler, G. 1934; Rohweder, H. 1937; Hubbard, C.E. 1954; Tateoka, T. 1955; Gadeila, T.W.J. &

Kliphuis, E. 1968a, 1971a; Lepper, L. 1968a; 1970b; Bramwell, D. *et al.* 1971; Kožuharov, S.I. & Petrova, A.V. 1973

14,

14+1-2B Rosemark, N.O. 1957

14,

14+1-3

& 6B, 28,

28+2

& 7B Murray, B.G. 1975

14+2B Delay, J. & Petit, D. 1972

14+2f, 28 Rozanova, M.A. (Fedorov)

28 Cauderon, Y. & Salgue, B. 1962; Skalníška, M. *et al.* 1971

minor Linn.

- 10 Avdulov, N.P. (Fedorov); Parodi, L.R. 1946; Heiser, C.B. & Whitaker, T.W. 1948; Tateoka, T. 1953, 1954; Hubbard, C.E. 1954; Larsen, K. 1960; Fernandes, A. & Queiros, M. 1969; Dahlgren, R. *et al.* 1971; Pohl, R.W. & Davidse, G. 1971; Gould, P.W. & Soderstrom, T.R. 1974; Murray, B.G. 1975; Humphries, C.J. *et al.* 1978
 14 Gould, F.W. 1958

Bromus Linn.

50; temperate and tropical mountains. 13; mostly in North Western Himalaya, and Nepal and Bhutan a few introduced.

daunthoniae (Desf.) Trin.

- 14 Avdulov, N.P. (Fedorov); Stählin, A. 1929; Schulz-Schaeffer, J. 1963; Sakamoto, S. & Muramatsu, M. 1963; Hill, H.D. 1965; Tuksanova (Fedorov)

var. *daunthoniae*

- 14 Ovdishu-Yavin, Z. 1969

dianthus Roth

- 56 Cugnac, A. de & Simonet, M. 1941a; Hubbard, C.E. 1954; Gould, F.W. 1968; Fernandes, A. & Queiros, M. 1969

gedrosianus Penzes

- 14 Mehra, P.N. & Sunder, S. 1969

gracillimus Bunge

- 14 Sokolovakaya, A.P. & Strelkova, O.S. (Fedorov); Podlech, D. & Dieterle, A. 1969

himalaicus Stapf

- 14 Mehra, P.N. & Sunder, S. 1969
28 Mehra, P.N. & Sharma, M.L. 1973

var. *grandis* Stapf

- 14 Mehra, P.N. & Sood, O.P. 1976
28 Mehra, P.N. & Sharma, M.L. 1972; Mehra, P.N. & Romanandan, P. 1973a; Mehra, P.N. & Sharma, M.L. 1975c

var. *himalaicus*

- 28 Mehra, P.N. & Sood, O.P. 1976

incensum Leyss.

- 23+3f,
28+1-3f Tan, G.-Y. & Dunn, G.M. 1977b
28 Knobloch, I.W. 1953
28, 56 Hill, H.D. & Carnahan, H.L. 1957; Armstrong, K.C. 1980
42 Stählin, A. 1929
42+20B Schulz-Schaeffer, J. 1956
42, 56 Tischler, G. 1934; Knobloch, I.W. 1943
42, 56, 70 Jones, K. 1957
49, 54-58 Sigurbjörnsson, B. *et al.* 1958
54-58 Schertz, K.F. & Murphy, R.P. 1958
56 Avdulov, N.P. (Fedorov); Cugnac, A. de & Simonet, M. 1941a, b; Löve, A. & Löve, D. 1944b; Elliott, F.C. 1948; Hill, H.D. & Myers, W.M. 1948; Pölya, L. 1950; Barnett, F.L. 1955; Schertz, K.F. & Randolph, L.F. 1958; Bowden, W.M. 1960a; Schulz-Schaeffer, J. 1960; Hanna, M.R. 1961; Wilton, A.C. *et al.* 1963; Mitchell, W.W. 1967; Rychlewski, J. 1970; Dunn, G.M. & Nasiruddin, M. 1971; Lafleur, T.D. & Jalal, S.M. 1972; Armstrong, K.C. 1973, 1977a
56, 70 Nielsen, E.L. 1939
c.112 Tan, G.-Y. & Dunn, G.M. 1977a

esp. *incensum*

- 28 Májovský, J. *et al.* 1970a

var. *sichlensis*

- 28 Mehra, P.N. & Sunder, S. 1969

japonicus Thunb.

- 14 Avdulov, N.P. (Fedorov); Nielsen, E.L. & Humphrey, L.M. 1937; Tateoka, T. 1953; Barnett, F.L. 1955; Schulz-Schaeffer, J. 1956, 1960; Walters, M.S. 1963; Gould, F.W. 1968; Kožuharov, S.I. & Kuzmanov, B.A. 1968
14, 28, 42 Mehra, P.N. & Sunder, S. 1969
14, 42 Mehra, P.N. & Romanandan, P. 1973a
28 Mehra, P.N. *et al.* 1968; Mehra, P.N. & Sharma, M.L. 1977; Sharma, M.L. & Sharma, K. 1979

var. *falconeri* (Stapf) Stewart

- 14 Mehra, P.N. & Sharma, M.L. 1977

var. *japonicus*

- 14 Ovadiahu-Yavin, Z. 1969
28 Mehra, P.N. & Sharma, M.L. 1977

abotini Drob.

- 14 Avdulov, N.P. (Fedorov)

mollis Linn.

- 14 Mehra, P.N. *et al.* 1968; Májovský, J. *et al.* 1970b
28 Avdulov, N.P. (Fedorov); Stählin, A. 1929; Tischler, G. 1934; Rohweder, H. 1937; Stebbins, G.L. & Love, R.M. 1941; Knowles, P.F. 1944; Heiser, C.B. & Whitaker, T.W. 1948; Tarnavski, I.T. 1948; Pölya, L. 1950; Hubbard, C.E. 1954; Tateoka, T. 1954; Barnett, F.L. 1955; Böcher, T.W. & Larsen, K. 1958b; Bowden, W.M. & Senn, H.A. 1962; Walters, M.S. 1963; Gadella, T.W.J. & Kliphuis, E. 1966, 1971a; Taylor, R.L. & Mulligan, G.A. 1968; Rychlewski, J. 1970; Mehra, P.N. & Sharma, M.L. 1975c

oxyodon Schrenk

- 28 Schulz-Schaeffer, J. 1960; Hill, H.D. 1963

rareous Huds.

- 14 Stählin, A. 1929; Tischler, G. 1934; Sakamoto, S. & Muramatsu, M. 1963
14, 28, 42 Hubbard, C.E. 1954; Jones, K. 1957

- 28 Pólya, L. 1950
 42 Stebbins (Löve, A. & Löve, D. 1961b)
 56 Mehra, P.N. & Sood, O.P. 1976

scoparius Linn.

- 14 Barnett, F.L. 1955; Tuksanova (Fedorov); Kožuharov, S.I. & Kuzmanov, B.A. 1968; Podlech, D. & Dieterle, A. 1969

var. *scoparius*

- 14 Ovadiahu-Yavin, Z. 1969

tectorum Linn.

- 14 Avdulov, N.P. (Fedorov); Stählin, A. 1929; Tischler, G. 1934; Titova, N.N. (Fedorov); Cugnac, A. de & Simonet, M. 1941a, b; Knowles, P.F. 1944; Felföldy, L.J.M. 1947a; Heiser, C.B. & Whitaker, T.W. 1944; Pólya, L. 1950; Hubbard, C.E. 1954; Tateoka, T. 1954, 1955, 1956b; Barnett, F.L. 1955; Bowden, W.M. 1960a; Walters, M.S. 1963; Fernandes, A. & Queiroz, M. 1969; Mehra, P.N. & Sunder, S. 1969; Podlech, D. & Dieterle, A. 1969; Májovský, J. *et al.* 1970b; Gadella, T.W.J. & Kliphuis, B. 1971a; Sharma, M.L. & Sharma, K. 1979
- 14, 28 Humphries, C.J. *et al.* 1978

var. *tectorum*

- 14 Ovadiahu-Yavin, Z. 1969

uniloboides HBK

- 14 Mehra, P.N. & Sharma, M.L. 1975f; Sharma, M.L. & Sharma, K. 1979
 28 Stählin, A. 1929; Avdulov, N.P. (Fedorov)
 42 Parodi, L.R. 1946; Bowden, W.M. & Senn, H.A. 1962; Fernandes, A. & Queiroz, M. 1969; Mehra, P.N. & Sharma, M.L. 1975c; Mehra, P.N. & Sood, O.P. 1976

Cafragrostis Adans.

80; temperate. 6-7; chiefly in North-Western India and Western Himalaya, and Bhutan and Sri Lanka.

epigejos (Linn.) Roth

- 28 Nielson, E.L. 1939; Gadella, T.W.J. & Kliphuis, E. 1967; Murin, A. & Májovský, J. 1978
 28, 42, 56 Nygren, A. 1946, 1958, 1962; Jones, K. 1957
 28, 56 Westergaard, M. 1943; Kubien, B. 1964
 28+0-9B,
 56 Tateoka, T. 1976
 35 Linder, R. & Brun, J. 1956
 56 Pólya, L. 1949; Skalická, M. *et al.* 1957
 c.70 Avdulov, N.P. (Fedorov); Tischler, G. 1934; Rohwedder, H. 1937

pseudophragmites (Hall. f.) Koeber

- 28 Nygren, A. 1950a, 1958; Ono, H. & Tateoka, T. 1953; Tateoka, T. 1954, 1967, 1976; Skalická, M. *et al.* 1968

var. *pseudophragmites*

- 28 Mehra, P.N. & Sharma, M.L. 1975c

var. *tartarica* (Hook. f.) Bor

- 28 Mehra, P.N. & Remanandan, P. 1973a; Mehra, P.N. & Sharma, M.L. 1975c

sp.

- 14 Mehra, P.N. & Sunder, S. 1969

Capillipedium Stapf

10; warmer parts of the Old World. 7; throughout India (ascending Himalaya up to 2,000 m), and Sri Lanka.

assimile (Steud.) A. Camus

- 20 de Wet, J.M.J. *et al.* 1963; Khosla, P.K. & Mehra, P.N. 1973
 40 Chen, C.C. & Hsu, C.C. 1962; Chheda, H.R. & Harlan, J.R. 1962; Larsen, K. 1963b; Mehra, K.L. 1963; Mehra, P.N. *et al.* 1968; Mehra, P.N. & Sharma, M.L. 1975a
 40, up to
 12B Bir, S.S., Gill, B.S., Singhal, V.K. & Bedi, Y.S. 1979

- huegelii* (Hack.) A. Camus*
 20 de Wet, J.M.J. *et al.* 1963 ;
 Christopher, J. 1978
 40 Mehra, K.L. 1955a ; Mehra, K.L.
et al. 1962 ; Mehra, P.N. *et al.* 1968
- huegelii* (Hack.) Stapf
 40 Khosla, P.K. & Mehra, P.N. 1973
- parviflorum* (R. Br.) Stapf
 20 Mehra, P.N. *et al.* 1968
 20+1B Mehra, P.N. & Sharma, M.L. 1973
 20+1B,
 40 Mehra, P.N. & Sharma, M.L. 1975a
 20, 40 de Wet, J.M.J. *et al.* 1963
 22 Mehra, P.N. & Remanandan, P.
 1973b
 40 Celarier, R.F. & Harlan, J.R. 1957 ;
 de Wet, J.M.J., Borgaonkar, D.S. &
 Chheda, H.R. 1961 ; Chen, C.C. &
 Hsu, C.C. 1962 ; Faruqi, S.A. *et al.*
 1979
- Andropogon micranthus* Kunth
 20 Church, G.L. 1940
- pterocephalus* (Clarke) Stapf
 40 Mehra, P.N. & Sharma, M.L. 1972,
 1975a
- Castellia* Tineo
 1 ; Canary Islands, Mediterranean,
 Sudan, Arabia and North West India.
- tuberculosa* (Moris) Bor
 14 Singh, D.N. & Godward, M.B.E. 1960
- Catapodium tuberosum* Moris
 12 Martinoli, G. 1954
- Catabrosa* P. Beauv.
 4 ; temperate. 2 ; North Western
 Himalaya and alpine Sikkim (up to 5,000
 m), and Nepal.
- aquatica* (Linn.) P. Beauv.
 20 Avdulov, N.P. (Fedorov) ; Tischler,
 G. 1934 ; Hubbard, C.E. 1954 ;
 Löve, A. 1954b ; Bowden, W.M.,
 1960a ; Tateoka, T. 1962b ; Václavík,
 M. & Májovský, J. 1978 ; Václavík,
 M. 1980
 42 Sokolovskaya, A.P. & Streikova, O.S.
 (Fedorov)
- Cenchrus* Linn.
 25 ; tropics and warm temperate. 7 ;
 chiefly in North Western India, and hotter
 and drier parts of India, 1 endemic to Tamil
 Nadu, and Pakistan and Bangla Desh.
- biflorus* Roxb.
 30 Miège, J. 1962 ; Mehra, P.N. *et al.*
 1968 ; Malik, C.P. & Tripathi, R.C.
 1970 ; Olorode, O. 1975
 32, 36 Mehra, P.N. & Chaudhary, J.D. 1974
 34 Mulay, B.N. & Jagdison, D. 1956 ;
 DeLisle, D.G. 1963 ; Abbasi, Z. &
 Islam, A.S. 1967 ; Gupta, P.K. &
 Yashvir 1971 ; Dujardin, M. 1978
 36 Khosla, P.K. 1972
- catharticus* Delile
 34 Avdulov, N.P. (Fedorov)
- ciliaris* Linn.
 18, 36,
 c.44 Mehra, P.N. & Kobl, B.L. 1966
 18, 36, 44 Mehra, P.N. *et al.* 1968
 32, 34, 36,
 40, 54 Miège, J. 1962
 34, 36, 44
 54, 56 Ramaswamy, K.R. *et al.* 1969
 36 Moffett, A.A. & Hurcombe, R. 1949 ;
 de Wet, J.M.J. & Anderson, L.J.
 1956 ; de Wet, J.M.J. 1958a, 1960a ;
 DeLisle, D.G. 1964 ; Gould, F.W.
 1968 ; Malik, C.P. & Tripathi, R.C.
 1970 ; Gupta, P.K. & Yashvir 1971 ;
 Khosla, P.K. 1972 ; Sharma, M.L. &
 Sharma, K. 1979
 36, 44, 52 Nath, J. *et al.* 1970
 36, 44, 54,
 56 Jagannath, D.R. & Raman, V.S. 1974

*The combination *Capillipedium huegelii* was made by Stapf.

42, 44, 46,

50 Ismail, F.-A. 1971

44, 52

(32, 34, 36,

40, 54) Nath, J. & Swaminathan, M.S. 1957

45 Shanithamma, C. *et al.* 1976

c.54 Gould, F.W. 1970

Pennisetum cenchroides Rich.

35 Krishnaswamy, N. 1941

36 Avdulov, N.P. (Fedorov)

Pennisetum ciliare (Linn.) Link

32, 36, 40,

54 Fisher, W.D. *et al.* 1954

36 Gould, F.W. 1958; Reeder, J.R. 1971; Van Loon, J.C. 1974

36, 43, 48 Snyder, L.A. *et al.* 1955a, b*echinatus* Linn.

34 Avdulov, N.P. (Fedorov); Parodi, L.R. 1946; Delav, C. 1947

65 Nunn, O. 1932; Tateoka, T. 1954; DeLisle, D.G. 1963, 1964; Gould, F.W. & Soderstrom, T.R. 1967, 1970, 1974; Gould, F.W. 1968; Davidsen, G. & Pohl, R.W. 1974

glauca Mudaliar & Sundaraj36, 38 Patil, B.D. *et al.* 1961

45 Narayan, K.N. & Shanithamma, C. 1968; Shanithamma, C. & Narayan, K.N. 1976, 1976-77

pauciflorus Benth.

34 Tateoka, T. 1954

36 Brown, W.V. 1946a, 1948

longispinus Fern.

34 Gould, F.W. 1958; DeLisle, D.G. 1963, 1964

ponniaciformis Hochst. & Steud.

34 Abbasi, Z. & Islam, A.S. 1967

35, 54 Patil, B.D. *et al.* 1961

36 Baquar, S.R. & Anjum, V. 1969-1970; Khosla, P.K. 1972

42 Singh, D.N. & Godward, M.B.E. 1960

prienii (Kunt) Maire

34 Mulay, B.N. & Leelamma, P.J. 1956; Mulay, B.N. & Prasad, M.K. 1956

setigerus Vahl34 Janaki Ammal, E.K. (D. 1955); Mehra, P.N. *et al.* 1968; Baquar, S.R. & Anjum, V. 1969-1970; Malik, C.P. & Tripathi, R.C. 1970; Khosla, P.K. 197236 Fisher, W.D. *et al.* 1954; Snyder, L.A. *et al.* 1955b; DeLisle, D.G. 1963; Sinha, R.R.P. & Jha, R.P. 1972; Christopher, J. & Abraham, A. 1976; Sharma, M.L. & Sharma, K. 1979

36, 46 Ismail, F.-A. 1971

36, 54 Ramaswamy, K.R. *et al.* 1969; Jagannath, D.R. & Raman, V.S. 197437 Patil, B.D. *et al.* 1961*Centotheca* Desv.

4; tropical Africa, Asia and Polynesia. 1; widely distributed in India, and Sri Lanka.

lappacea (Linn.) Desv.24 Larsen, K. 1963b; Narayan, K.N. & Muniyamma, M. 1969; Christopher, J. & Abraham, A. 1971; Muniyamma, M. & Narayan, K.N. 1971; Kammecher, P. *et al.* 1973; Olorode, O. 1975; Dujardin, M. 1978*latifolia* (Linn.) Trin.

24 Avdulov, N.P. (Fedorov)

Chimonobambusa Makino

14; India to Japan. 8; chiefly in Eastern Himalaya, and Nepal and Bhutan.

densifolia (Munro) Nakai

c.48 Gould, F.W. & Soderstrom, T.R. 1974

falcata Nakai

48 Janaki Ammal, E.K. 1959

griffithiana Nakai

48 Janaki Ammal, E.K. 1959

hookeriana Nakai

48 Janaki Ammal, E.K. 1959; Mehra, P.N. & Sharma M.L. 1975c

kansiana Nakai

48 Janaki Ammal, E.K. 1959

polystachya Nakai

48 Mehra, P.N. & Kalia, V. 1976

Chlorachne R. Br.

5 ; Indo-Malesia, Indo-China and Eastern Australia. 2 ; 1 throughout India, 1 in Southern India, and Sri Lanka.

koenigii (Spreng.) Thwaites

20 Janaki Ammal, E.K. (D. 1945); Nirodi, N. 1955; Rao, T.N.V.R. 1962; Christopher, J. 1978
20, 40 Venkateswarlu, J. & Rao, P.N. 1976b

Polytoca barbata (Roxb.) Stapf

20 Reeves, R.G. & Mangelsdorf, P.C. 1935; Mangelsdorf, P.C. & Reeves, R.G. 1939; Mangelsdorf, P.C. 1947

semiteres (Benth.) Henr.

20 Janaki Ammal, E.K. (D. 1945)

Chloris Swartz

40 ; tropics and warm temperate. 10 ; chiefly in Southern and Northern India, particularly in drier parts, and Pakistan and Sri Lanka.

barbata Swartz

20 Avdulov, N.P. (Fedorov); Parodi, L.R. 1946; Gould, F.W. 1966; Shanthamma, C. *et al.* 1976; Shanthamma, C. & Narayan, K.N. 1976-1977
40 Krishnaswamy, N. 1941; Chen, C.C. & Hsu, C.C. 1962; Gould, F.W. & Soderstrom, T.R. 1967, 1974; Hsu, C.-C. 1972; Christopher, J. & Abraham, A. 1974
c.50 Baquar, S.R. & Seeed, M. 1969

inflata Link

40 Gould, F.W. & Soderstrom, T.R. 1970; Davidse, G. & Pohl, R.W. 1972b, 1974

bournei Rang. & Tard.

40 Janaki Ammal, E.K. (D. 1945)
50 Krishnaswamy, N. 1941

dolichostachya Lagasca

20 Mehra, P.N. & Kohli, H.L. 1966; Mehra, P.N. *et al.* 1968
40 Saxena, B.K. & Gupta, B.K. 1970; Gould, F.W. & Soderstrom, T.R. 1974; Mehra, P.N. & Sharma, M.L. 1975d; Muniyamma, M. 1976b

incompleta Roth

40 Christopher, J. & Abraham, A. 1974

gayana Kunth

20 Avdulov, N.P. (Fedorov); Hunter, A.W.S. 1934; Parodi, L.R. 1946; Brown, W.V. 1950; Gould, F.W. 1968; Mehra, P.N. *et al.* 1968
20, 30, 40 Pritchard, A.J. & Gould, K.F. 1964
20, 40 Singh, D.N. & Godward, M.B.E. 1963
40 Tateoka, T. 1965a; Sinha, R.R.P. & Jha, R.P. 1972

prienii Kunth

40 Miège, J. & Joasserand, N. 1972

roxburghiana Schult.

20 Pritchard, A.J. & Gould, K.F. 1964

virgata Swartz

14 Nielsen, E.L. & Humphary, L.M. 1937
20 Moffett, A.A. & Huroombe, R. 1949; Brown, W.V. 1950, 1951; Singh, D.N. & Godward, M.B.E. 1960; Pritchard, A.J. & Gould, K.F. 1964; Gould, F.W. 1966, 1968; Gupta, P.K. 1969a, 1971; Malik, C.P. & Tripathi, R.C. 1970; Mészöck, J. & Sojak, J. 1972; Davidse, G. & Pohl, R.W. 1972b; Trouin, M. 1972
26 Thomas (D. 1955)
30 Krishnaswamy, N. 1941

caudata Trin.

40 Krishnaswamy, N. 1941

Chrysopogon Trin.

25 ; tropics and subtropics ; abundant

in Old World. 15 ; chiefly in the hills of the Southern India and the Himalaya, a few in Central and North Eastern India.

aciculatus (Retz.) Trin.

- 20 Janaki Ammal, B.K. (D. 1945) ; Chen, C.C. & Hsu, C.C. 1962 ; Gupta, P.K. 1963b, 1969a, 1971 ; Larsen, K. 1963b ; Saxena, B.K. & Gupta, B.K. 1970 ; Ismail, F.-A. 1971 ; Khosla, P.K. & Mehra, P.N. 1973 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Olorode, O. 1944b ; Mehra, P.N. & Sharma, M.L. 1975a ; Christopher, J. 1978

asper (Heyne) Blatt. & McCann

- 20 Raman, V.S. *et al.* 1959a ; Sindhe, A.N.R. 1967, 1980 ; Muniyamma *et al.* 1976

aurcheri (Boiss.) Stapf

- 20 Faruqi, S.A. *et al.* 1979
40 Celarier, R.P. 1959

echinulatus (Nees) Wats.

- 20 Mehra, P.N. & Sharma, M.L. 1972, 1975a ; Mehra, P.N. & Romanandan, P. 1973b ; Faruqi, S.A. *et al.* 1979

felvus (Sprang.) Chiov.

- 20 Ismail, F.-A. 1971 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Mehra, P.N. & Sharma, M.L. 1975a ; Christopher, J. 1978 ; Sharma, M.L. & Sharma, K. 1979
20, 80 Mehra, P.N. *et al.* 1968

montanus Trin.

- 20 Krishnaswamy, N. 1941 ; de Wet, J.M.J. & Anderson, L.J. 1956 ; Celarier, R.P. 1959
20, 80 Mehra, K.L. 1955b ; Mehra, P.N. & Kohli, B.L. 1966
40, 80 Mehra, K.L. *et al.* 1962

Andropogon monticola Schult.

- 20 Krishnaswamy, N. 1941

gryllus (Linn.) Trin.

- 20 Mehra, P.N. *et al.* 1968 ; Mehra,

P.N. & Sunder, S. 1969 ; Mehra, P.N. & Sharma, M.L. 1975a ; Sharma, M.L. & Sharma, K. 1979

- 20, 20+B Mehra, K.L. *et al.* 1962
40 Celarier, R.P. 1959 ; Christopher, J. 1978

Andropogon gryllus Linn.

- 40 Avdelev, N.P. (Fedorov) ; Natarajan, G. 1978

hackelii (Hook. f.) Fisch.

- 20 Sindhe, A.N.R. 1967 ; Sindhe, A.N.R. *et al.* 1975 ; Shanthamma, C. 1976 ; Shanthamma, C. & Narayan, K.N. 1976-1977

lancearius Haines

- 20 Joshi, A.B. *et al.* 1959

orientalis (Desv.) A. Camus

- 20 Gould, F.W. & Soderstrom, T.R. 1974

serrulatus Trin.

- 20 Saxena, B.K. & Gupta, B.K. 1970
80 Faruqi, S.A. *et al.* 1979

verticillatus (Roxb.) Trin.

- 20 Raman, V.S. *et al.* 1959a ; Christopher, J. 1978

zeylanicus (Nees) Thwaites

- 20 Janaki Ammal, E.K. (D. 1945) ; Raman, V.S. *et al.* 1959a ; Khosla, P.K. & Mehra, P.N. 1973 ; Christopher, J. 1978

Cleistachne Benth.

4 ; tropics and South Africa, and India. 2 ; Madhya Pradesh and South Western Peninsula.

sorghoides Benth.

- 36 Garber, B.D. 1950 ; Tateoka, T. 1957 ; Celarier, R.P. 1959

Coelachne R. Br.

10 ; palaeotropics. 2 ; Southern India, and Nepal and Sri Lanka.

simpliciuscula Munro

- 18 Sindhe, A.N.R. 1969 ; Sindhe, A.N.R. & Narayan, K.N. 1976
20 Mehra, P.N. & Sood, O.P. 1975
36 Gould, P.W. & Soderstrom, T.R. 1974

Coelachyrum Hochst. & Nees

5 ; North tropical Africa and tropical South West Asia. 1 ; Southern India, and Sri Lanka.

lagopoides (Burm. f.) Senaratna

- 18 Hiremath, S.C. 1980

Eleusine brevifolia R. Br.

- 36 Krishnaswamy, N. 1941

Eleusine lagopoides (Burm. f.) Mett.

- 36 Krishnaswamy, N. & Ayyangar, R. 1935a ; Krishnaswamy, N. 1951

Coelorachis Brongn.

12 ; tropics. 2 ; Khasi Hill and Sikkim.

khasiana Stapf

- 18 Mehra, P.N. & Kalta, V. 1974

striata (Nees) A. Camus

- 36 Larsen, K. 1963b

Coix Linn.

5 ; tropical Asia. 4 ; chiefly in the Hills of India, 1 cultivated.

aquatica Roxb.

- 10 Reeves, R.G. & Mangelsdorf, P.C. 1935 ; Mangelsdorf, P.C. & Reeves, R.G. 1939 ; Larsen, K. 1963b ; Koul, A.K. 1965a, b ; Rao, P.N. & Narayana, D.S. 1980
10, 11 Rao, P.N. 1976b

gigantea Koen. ex Roab.

- 10 Sindhe, A.N.R. 1967 ; Sindhe, A.N.R. et al. 1975
20, 40 Janaki Ammal, E.K. (D. 1945) ; Larsen, K. 1963b

- 40 Nirodi, N. 1955 ; Koul, A.K. 1965a, b

Iscryma-jobi Linn.

- 10 Rao, T.N.V.R. 1962
20 Longley, A.E. 1924a ; Taylor, W.R. 1925 ; Hunter, A.W.S. 1934 ; Reeves, R.G. & Mangelsdorf, P.C. 1935 ; Mangelsdorf, P.C. & Reeves, R.G. 1939 ; Parodi, L.R. 1946 ; Delay, C. 1947 ; Tateoka, T. 1953, 1954, 1955 ; Nirodi, N. 1955 ; Koul, A.K. 1965a, b ; Mehra, P.N. et al. 1968 ; Sindhe, A.N.R. 1969 ; Malik, C.P. & Mary, T.N. 1970b ; Saxena, B.K. & Gupta, B.K. 1970 ; Pohl, R.W. Davidse, G. 1971 ; Davidse, G. & Pohl, R.W. 1972b ; Sinha, R.R.P. & Jha, R.P. 1972 ; von Reinhard, F. 1972 ; Kammacher, P. et al. 1973 ; Olorode, O. 1975 ; Rao, P.N. 1975 ; Sindhe, A.N.R. 1977 ; Christopher, J. 1978 ; Dujardin, M. 1979b

- 20 + 1f Venkateswarlu, J. & Rao, P.N. 1977
20, 21, 22,
27, 29, 30,
31 Rao, P.N. 1977
39, 40, 41 Rao, P.N. 1976a
40 Venkateswarlu, J. & Rao, P.N. 1976a

agrestis Lour.

- 20 Kuwada, Y. 1915

var. *ma-yuen* (Romanet) Stapf

- 20 Mehra, P.N. & Chaudhary, J.D. 1974

var. *typica* Watt

- 40 Venkateswarlu, J. et al. 1976

Colpodium Trin.

20 ; North temperate. 3 ; North Western India and Himalaya.

nutans Griseb.

- 14 Mehra, P.N. & Sharma, M.L. 1977

Cortaderia Stapf

15 ; South America. 1 ; introduced.

vellosa (Schult.) Aschers. & Graebn.

- 72 Narayan, K.N. & Sindhe, A.N.R. 1968 ; Mehra, P.N. & Sharma, M.L.

1973, 1975d; Muniyamma *et al.*
1976

argentea (Nees) Stapf

70 Hosono (Kihara, H. *et al.* 1931)

diolca Speg.

76 Parodi, L.R. 1946

Crypsis Ait.

10; Mediterranean to North China and
tropical Africa. 1; North Western India.

schoenoides (Linn.) Lam.

35 Podlech, D. & Dietrich, A. 1969

Eleochoa schoenoides (Linn.) Hort.

36 Fernandez, A. & Queiros, M. 1969

Cymbopogon Spreng.

60; tropical and subtropical Africa and
Asia. 20; chiefly in tropical and subtropical
Himalaya and Southern India, and Sri
Lanka.

caeruleus (Nees) Stapf

20 Bor, N.L. 1953; Janaki Ammal, E.K.
(D. 1955); Gupta, B.K. 1965, 1970b;
Gould, F.W. & Soderstrom, T.R.
1974; Christopher, J. 1978

20+0-4

(5?) Jagadish Chandra, K.S. 1968

20+1,

20+2,

40 Jagadish Chandra, K.S. 1967

20+2B Babu, C.N. 1936

20, 22 Singh, F. 1966

40 Faruqi, S.A. *et al.* 1979; Quraish,
H.B. & Faruqi, S.A. 1979

citratus (DC.) Stapf.

40 Gupta, B.K. 1965

40, 60 Babu, C.N. 1936; Bor, N.L. 1953

60 Saura, F. 1948; Mehra, P.N. *et al.*
1968

coloratus (DC.) Stapf

30 Jagadish Chandra, K.S. 1967, 1969

40 Babu, C.N. 1936; Bor, N.L. 1953

distans (Nees) Wats.

20 Mehra, P.N. & Remanandan, P.
1973b; Mehra, P.N. & Sharma, M.L.
1973; Faruqi, S.A. *et al.* 1979;
Quraish, H.B. & Faruqi, S.A. 1979

20, 40 Gupta, B.K. 1969b, 1970b; Mehra,
P.N. & Sharma, M.L. 1975a

40 Mehra, P.N. *et al.* 1968

60 Saxena, B.K. & Gupta, B.K. 1970

var. *mundensis* Gupta

20 Gupta, B.K. 1970f

flexuosus (Nees ex Steud.) Wats.

20 Raghavan, R.S. & Arora, C.M. 1958;
Gupta, B.K. 1971; Christopher, J.
1978

20, 20+2B,

40 Gupta, B.K. 1965

20, 40 Bor, N.L. 1953; Gupta, B.K. 1970b

30, 60 Jagadish Chandra, K.S. 1967

40 Babu, C.N. 1936

var. *coimbatorensis* Gupta

40 Gupta, B.K. 1970f

var. *microstachya* (Hook.) Bor

30 Malik, C.P. & Tripathi, R.C. 1970

flexuosus × *jwarancusa*

20 Gupta, B.K. 1971

flexuosus × *gidarba*

20+1B Gupta, B.K. 1971

gidarba (Ham. ex Hook. f.) Haines

20, 20+1B Gupta, B.K. 1971

var. *gidarba*

20, 20+1,

40 Jagadish Chandra, K.S. 1967

gidarba × *flexuosus*

20 Gupta, B.K. 1971

jwarancusa (Jones) Schult.

20 Raghavan, R.S. & Arora, C.M. 1958;
Mehra, K.L. *et al.* 1962; Gupta, B.K.
1965, 1970b, 1971; Mitra, K. &
Datta, N. 1967; Mehra, P.N. &
Sharma, M.L. 1975a; Faruqi, S.A.
et al. 1979; Quraish, H.B. & Faruqi,
S.A. 1979; Baquar, S.R. & Sreed,
M. 1969

- 20+0-8B Sobti, S.N. *et al.* 1979
 40 Mehra, P.N. & Kohli, B.L. 1966 ;
 Mehra, P.N. *et al.* 1968
- jwarancusa* × *confertiflorus*
 20 Gupta, B.K. 1971
- jwarancusa* × *flexuosus*
 20 Gupta, B.K. 1971
- var. *assamensis* Gupta
 20 Gupta, B.K. 1970f
- khasianus* (Hack.) Stapf *ex* Bor
 20 Mehra, P.N. & Kalia, V. 1974
 60 Gupta, B.K. 1965, 1970b
 60+2B Sobti, S.N. *et al.* 1979
- ladakhensis* Gupta
 20 Gupta, B.K. 1970c
- martialis* (Roxb.) Wats.
 20 Raghavan, R.S. & Arora, C.M. 1958 ;
 Mitra, K. & Datta, N. 1967
 20, 40 Gupta, B.K. 1965, 1970b ; Mehra,
 P.N. & Sharma, M.L. 1975a
 40 Bor, N.L. 1953 ; Mehra, K.L. *et al.*
 1962
- var. *moftia*
 20+0-2B Sobti, S.N. *et al.* 1979
- moftia* Gupta
 20+2B Gupta, B.K. 1970c
- var. *sofia* Gupta
 40 Gupta, B.K. 1970f
- microstachys* (Hook. f.) A. Camus
 20 Mehra, P.N. & Sharma, M.L. 1972,
 1975a
- nardus* (Linn.) Rendle
 20 Kuwada, Y. 1919 ; Bor, N.L. 1953 ;
 Raghavan, R.S. & Arora, C.M. 1958 ;
 Mehra, K.L. *et al.* 1962 ; Mehra,
 P.N. *et al.* 1968
 20, 40 Gupta, B.K. 1970b
 20, 40, 60 Gupta, B.K. 1965
 40 Gould, F.W. & Soderstrom, T.R.
 1974
 60 Azam, F. *et al.* 1969
- Andropogon nardus* Linn.
 20 Kuwada, Y. 1915
- var. *confertiflorus* (Steud.) Stapf *ex* Bor
 20 Mehra, P.N. & Kalia, V. 1974
 30 Jagdish Chandra, K.S. 1969
 30, 40 Jagdish Chandra, K.S. 1967
 60 Mitra, K. & Datta, N. 1967 ; Mehra,
 P.N. & Sharma, M.L. 1975a
- confertiflorus* (Steud.) Stapf
 20 Gupta, B.K. 1970b, 1971
 60 Raghavan, R.S. & Arora, C.M. 1958
- olivieri* (Boiss.) Bor
 20 Gupta, B.K. 1969b, 1970b
- parkeri* Stapf
 20, 30, 40 Gupta, B.K. 1970b
 30 Muiay, B.N. & Jagdishan, D. 1956
 40 Faruqi, S. A. *et al.* 1979 ; Quraish,
 H.B. & Faruqi, S.A. 1979 ; Sharma,
 M.L. & Kumar, P. 1980
- parkeri* × *caesioides*
 40, 60 Quraish, H.B. & Faruqi, S.A. 1979
 60 Faruqi, S.A. *et al.* 1979
- parkeri* × *distans*
 40 Quraish, H.B. & Faruqi, S.A. 1979
- var. *jammuensis* Gupta
 40 Gupta, B.K. 1970f
- pendulus* (Nees *ex* Steud.) Wats.
 30 Gupta, B.K. 1969b
 60 Gupta, B.K. 1965, 1970b
- polymorphus* (Steud.) Stapf
 20 Babu, C.N. 1936 ; Gupta, B.K. 1965,
 1970b
 40 Jagdish Chandra, K.S. 1967
- rammagorensis* Gupta
 20 Gupta, B.K. 1970d
- schoenanthus* (Linn.) Sprang.
 20 Gould, F.W. 1956 ; Pandey, R.M. &
 Pal, M. 1980b
 40 Br, S.S., Gill, B.B., Singhal, V.K. &
 Bedi, Y.S. 1979
 60 Khoda, P.K. & Mehra, P.N. 1973

Andropogon laniger Desf.

20 Rees, G. 1957

stracheyi (Hook. f.) Raizada & Jain20 Mehra, P.N. & Sharma, M.L. 1972, 1975a
40 Gupta, B.K. 1969b, 1970b*travancorensis* Bor20 Gupta, B.K. 1965, 1970b
20+2 Jagadish Chandra, K.S. 1967
40 Christopher, J. 1978*winterianus* Jowitt

20 Gupta, B.K. 1965

Cynodon Rich.

10 ; tropics and subtropics. 4 ; Southern India, 1 throughout India, 1 introduced and naturalized, and Sri Lanka.

aromaticus J.S. Presl20, 32, 36 Gould, F.W. & Soderstrom, T.R. 1974
36 Larsen, K. 1963b ; Christopher J. & Abraham, A. 1974*barberi* Rang. & Tard.

18 Narayan, K.N. & Shanthamma, C. 1968 ; Christopher, J. & Abraham, A. 1974 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Shanthamma, C. & Narayan, K.N. 1976, 1976-1977

dactyloides (Linn.) Pers.18 Ourecky, D.K. 1963 ; Gould, F.W. 1970 ; Gould, F.W. & Soderstrom, T.R. 1974
18, 18+1-3B, 36, 54 Malik, C.P. 1966a
18, 27 Gupta, P.K. & Srivastava, A.K. 1970
18+0-3B
36, 54 Malik, C.P. & Tripathi, R.C. 1968
27 Christopher, J. & Abraham, A. 1974
27, 36 Singh, D.N. 1964
30 Hunter, A.W.S. 1934
36 Avdulov, N.P. (Fedorov) ; Delay, C. 1947 ; Heiser, C.B. & Whitaker, T.W. 1948 ; Pólya, L. 1948 ; Brown, W.V. 1950 ; Hubbard, C.E. 1954 ; Bowden, W.M. & Seon, H.A. 1962 ; Chen, C.C. & Hau, C.C. 1962 ; Gould, F.W. 1968 ; Mehra, P.N. & Sharma, M.L.

1975d ; Van Loon, J. Chr. & Kieft, B. 1980

36, 36+1-

2B Gould, F.W. 1966

36, 40 Mehra, P.N. & Kohli, B.L. 1966 ; Mehra, P.N. *et al.* 1968

40 Moffett, A.A. & Hurcombe, K. 1949 ; Tateoka, T. 1953 ; Shibata, K. 1957 ; Fernandes, A. & Queiros, M. 1969

var. *dactylon*18 Harlan, J.R. *et al.* 1970*plectostachyus* (Schum.) Pilger18 Sampath, S. & Ramanathan, K. 1949
18, 54 Moffett, A.A. & Hurcombe, K. 1949
54 Mehra, P.N. *et al.* 1968*Cynosurus* Linn.

3-4 ; Europe, West Asia, and North and South Africa. 2 ; introduced.

crispatus Linn.14 Avdulov, N.P. (Fedorov) ; Stählin, A. 1929 ; Tischler, G. 1934 ; Müntzing, A. 1937b ; Delay, C. 1947 ; Hubbard, C.E. 1954 ; Tateoka, T. 1955 ; Rosemark, N.O. 1957 ; Godelia, T.W.J. & Kliphuis, B. 1966 ; Taylor, R.L. & Mulligan, G.A. 1968 ; Fernandes, A. & Queiros, M. 1969 ; Skalińska, M. *et al.* 1971
14+1 Kožuharov, S.I. & Petrova, A.V. 1973*echinatus* Linn.14 Avdulov, N.P. (Fedorov) ; Stählin, A. 1929 ; Delay, C. 1947 ; Hubbard, C.E. 1954 ; Fernandes, A. & Queiros, M. 1969 ; Kožuharov, S.I. & Petrova, A.V. 1973 ; Van Loon, J. Chr. & Kieft, B. 1980
16 Sakamoto, S. & Muramatsu, M. 1963*Cyrtococcum* Stapf

12 ; palaeotropics. 7 ; throughout India, and Sri Lanka.

acrescens (Trin.) Stapf

36 Larsen, K. 1963b ; Mehra, P.N. & Chaudhary, J.D. 1976

deccanense Bor

- 36 Gould, F.W. & Soderstrom, T.R. 1974; Christopher, J. & Abraham, A. 1976

oxyphyllum (Steud.) Stapf

- 18 Khosla, P.K. & Mehra, P.N. 1973; Christopher, J. & Abraham, A. 1976
36 Larsen, K. 1963b; Mehra, P.N. & Chaudhary, J.D. 1976; Muniyamma, M. 1976b
40 Gould, F.W. & Soderstrom, T.R. 1974

trigosum (Retz.) A. Camus

- 18, 36 Gould, F.W. & Soderstrom, T.R. 1974
36 Christopher, J. & Abraham, A. 1976

Dactylis Linn.

5; temperate Eurasia. 1; North West Himalaya, also cultivated.

glomerata Linn.

- 14 Stebbins, G.L. & Zohary, D. 1959; Borrill, M. 1961; Mehra, P.N. & Sharma, M.L. 1977a, b
14, 14+1-
3B Zohary, D. & Ashken, I. 1958; Shah, S.S. 1963
14, 14+1-
4B, 28,
28+1-3B
42 Jones, K. *et al.* 1961
14+2B Humphries, C.J. *et al.* 1978
14, 28 Levan, A. 1930; Pólya, L. 1949; Zohary, D. & Nur, U. 1959; Bücher, T.W. 1961a; Dorozewaka, A. 1963; Kliphuis, E. & Wieffering, J.H. 1972; Mehra, P.N. & Remondan, P. 1973a
27-31 Müntzing, A. 1933a, 1937a
28 Davies, J.G. 1927; Avdulov, N.P. (Fedorov); Church, G.L. 1929a; Stählin, A. 1929; Kattermann, G. 1930; Müntzing, A. 1933a, 1937b; Rancken, G. 1934; Tischler, G. 1934; Rohweder, H. 1937; Skovsted, A. 1939; Delay, C. 1947; Tarnavski, I.T. 1948; Tateoka, T. 1953; Hubbard, C.E. 1954; Bowden, W.M. 1960a; Sorsa, V. 1962; Gadella, T.W.J. & Kliphuis, E. 1953; Popova, M. (Fedorov); Sakamoto, S. &

- Muramatsu, M. 1963; Titz, W. 1965; Curran, P.L. 1968; Taylor, R.L. & Mulligan, G.A. 1968; Leveque, M. & Gorenflot, R. 1969; Laane, M.M. 1971; Pohl, R.W. & Davideo, G. 1971; Kožubarov, S.I. & Petrova, A.V. 1973; Rurka, T.Z. 1974; Kliphuis, E. & Wieffering, J.H. 1979
42 Hansen, A.A. & Hill, H.D. 1953b; Mehra, P.N. *et al.* 1968

asp. himalayensis Domin

- 14, 14+
1B Mehra, P.N. & Sunder, S. 1969

asp. woronowii (Ovezina) Stebbins & Zohary

- 14 Mehra, P.N. & Sunder, S. 1969

Dactyloctenium Willd.

10; warmer parts of the world. 5; 1 throughout India, 2 in North Western India, and 1 in Southern India, and Pakistan and Sri Lanka - 1 introduced.

egypticum (Linn.) P. Beauv.

- 18 Baquar, S.R. & Saeed, M. 1969
20 Gould, F.W. 1960
20, 40 Mehra, P.N. & Kohli, B.L. 1966; Mehra, P.N. *et al.* 1968
22 Bir, S.S., Gill, B.S. & Kanta, S. 1980
24, 36 Mulay, B.N. & Ponnama, P. 1956
34 Krishnaswamy, N. 1931 (Chandola, R.P. 1959)
36 Moffett, A.A. & Hurcombe, R. 1949; Chandola, R.P. 1959; Gould, F.W. 1966; Muniyamma, M. & Narayan, K.N. 1971; Mehra, P.N. & Sharma, M.L. 1975d
38 Olorode, O. 1974b
38, 40, 44,
46 Sharma, M.L. & Salam, A. 1980
40 Tateoka, T. 1965a; Gupta, P.K. & Yashvir, 1971; Mehra, P.N. & Sharma, M.L. 1975f; Sharma, M.L. & Sharma, K. 1978
44 Gould, F.W. & Soderstrom, T.R. 1974
46 Mehra, P.N. & Chaudhary, J.D. 1974
48 Avdulov, N.P. (Fedorov); Parodi, L.R. 1946; Gupta, P.K. 1963b,

1971; Larsen, K. 1963b; Christopher, J. & Abraham, A. 1974; Dujardin, M. 1978

Eleusine aegyptica Desf.

34 Krishnaswamy, N. & Ayyangar, R. 1935a

36, 45 Sharma, A.K. & De, D.N. 1956b; Sharma, A.K. & Jhuri, L. 1959

aristatum Link

20 Mehra, P.N. & Sharma, M.L. 1975f

20, 40 Sharma, M.L. & Sharma, K. 1979; Sharma, M.L. & Salam, A. 1980

40 Sharma, M.L. & Sharma, K. 1978

indicum Boiss.

20 Sharma, M.L. & Sharma, K. 1978, 1979; Sharma, M.L. & Salam, A. 1980

48 Krishnaswamy, N. 1961

Dendrocalamus Nees

20; China and Indo-Malesia. 7; mostly in Eastern Himalaya, and Nepal, Bhutan and Bangla Desh a few cultivated.

giganteus Munro

72 Janaki Ammal (D. 1945); Gould, F.W. & Soderstrom, T.R. 1974

hamiltonii Nees & Arn.

70 Mehra, P.N. & Sharma, M.L. 1972, 1975e

strictus Nees

70 Parthasarathy, N. 1946

72 Tischler, G. 1927a; Richharia, R.H. & Kotyal, J.P. 1940b

Deochampala P. Beauv.

60; temperate. 3; Himalaya, and Bhutan.

caespitosus (Linn.) P. Beauv.

24-25 Sokolovskaya, A.P. (Fedorov)

24-26 Kozuharov, S. & Kuzmanov, B. 1964b

26 Lawrence, W.E. 1945; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Hedberg, O. 1952, 1957; Sorsa, V. 1962; Kawano, S. 1963; Taylor,

R.L. & Brockman, R.F. 1966; Mehra, P.N. & Sood, O.P. 1976; Hedberg, I. & Hedberg, O. 1977

26, 26+

1B+1f,

26+1B Kawano, S. 1966

26+0

-5B Albers, F. 1971

26+0

-7B Albers, F. 1972a

26, 27, 28 Bowden, W.M. 1960b

26, c.52 Johnson, A.W. & Packer, J.G. 1968

26, 52 Kozuharov, S.I. & Petrova, A.V. 1973

28 Avdulov, N.P. (Fedorov); Tischler, G. 1934; Rohweder, H. 1937; Hagerup, O. 1939; Delay, C. 1947; Gustafsson, Å. 1947b; Quézel, P. 1957

52 Hedberg, O. 1967

ssp. caespitosus

28 Laane, M.M. 1967

c.39 Moore, R.J. *et al.* 1976

flexuosa (Linn.) Trin.

28 Tischler, G. 1934; Rohweder, H. 1937; Hagerup, O. 1939; Löve, A. & Löve, D. 1944b; Delay, C. 1947; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Böcher, T.W. & Larsen, K. 1950; Tateoka, T. 1953, 1965a; Hubbard, C.E. 1954; Skalińska, M. *et al.* 1957; Jørgensen, C.A. *et al.* 1958; Sokolovskaya, A.P. (Fedorov); Sorsa, V. 1962

28, 32 Bowden, W.M. 1960a, b

28, 42 Hedberg, O. 1952, 1957

Avenella flexuosa (Linn.) Pari.

28 Albers, F. 1972b

aeoloides Regel

26 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)

Desmostachya Stapf

1; North East tropical Africa to India. Arid and semi-arid regions of India.

biplanata (Linn.) Stapf

20 Mehra, P.N. *et al.* 1968; Christopher, J. & Abraham, A. 1974; Muniyamma *et al.* 1976

Deyeuxia Clarion ex P. Beauv.

200 ; temperate. 12 ; chiefly in Himalaya, and Bhutan.

arundinacea (Linn.) P. Beauv.

Calamagrostis arundinacea (Linn.) Roth

21 Hsu, C.-C. 1972

28 Avdulov, N.P. (Fedorov) ; Tischler, G. 1934 ; Rohweder, H. 1937 ; Nygren, A. 1946 ; Sorsa, V. 1962 ; Andreev, N. 1979

28,

28+2B Holub, J. *et al.* 1972

holciformis (Jaub. & Spach.) Bor

Calamagrostis tianshanica Rupr.

28 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)

scabrescens (Griseb.) Munro

28+0

-3B Mehra, P.N. & Sood, O.P. 1975

Diandrochloa de Winter

7 ; America, Africa, Asia and Australia.
3 ; North Western, Eastern, Central and Southern India.

diarrhena (Schult.) Henry

Eragrostis diarrhena (Schult.) Steud.

20 Roy, K.K. 1965

diplachnoides (Steud.) Henry

Eragrostis diplachnoides Steud.

20 Christopher, J. & Abraham, A. 1974 ; Gould, F.W. & Soderstrom, T.R. 1974

40 Mehra, P.N. & Kohli, B.L. 1966 ; Mehra, P.N. *et al.* 1968

japonica (Thunb.) Henry

Eragrostis japonica (Thunb.) Trin.

20 Avdulov, N.P. (Fedorov) ; Larsen, K. 1963b ; Mehra, P.N. & Kalra, V. 1976

40 Gould, F.W. & Soderstrom, T.R. 1974

60 Christopher, J. & Abraham, A. 1974

Dichanthium Willemet

15 ; palaeotropics. 8 ; chiefly in Western and Southern India, a few throughout India, and Sri Lanka.

annulatum (Forsk.) Stapf

20 Sharma, A.K. & Jhuri, L. 1959 ; Gupta, P.K. 1971 ; Sinha, R.R.P. & Jha, R.P. 1972 ; Sarkar, A.K., Datta, R., Raychowdhury, M. & Das, S. 1975

20, 40 Mehra, K.L. 1955a, 1961 ; de Wet, J.M.J., Mehra, K.L. & Borgaonkar, D.S. 1961 ; Mehra, K.L. *et al.* 1962 ; de Wet, J.M.J. *et al.* 1963 ; Harlan, J.R. *et al.* 1964 ; Singh, D.N. 1964

20, 40, 60 Celarier, R.P. *et al.* 1958 ; Harlan, J.R. *et al.* 1958 ; Singh, A.P. & Mehra, K.L. 1965

40 Oke, J.G. 1950 ; Singh, D.N. & Godward, M.B.E. 1960 ; Chheda, H.R. & Harlan, J.R. 1962 ; de Wet, J.M.J. & Richardson, W.L. 1963 ; Borgaonkar, D.S. & de Wet, J.M.J. 1964 ; Reddy, P.S. & D'Cruz, R. 1966, 1967, 1969a, b ; Mehra, P.N. *et al.* 1968 ; Baquar, S.R. & Saeed, M. 1969 ; Gupta, P.K. 1969a ; Malik, C.P. & Tripathi, R.C. 1970 ; Mehra, P.N. & Romanandan, P. 1973b ; Gould, F.W. & Soderstrom, T.R. 1974 ; Roy, G.P. 1981

40, 60 Celarier, R.P. & Harlan, J.R. 1957 ; Faruqi, S.A. *et al.* 1979

Andropogon annulatus Forsk.

40 Karper, R.E. & Chisholm, A.T. 1936 ; Krishnaswamy, N. 1941 ; Gould, F.W. 1956

annulatum (2n = 40) × **aristatum** (2n = 20)

31, 40, 42,

50 Reddy, P.S. & D'Cruz, R. 1967, 1969a

annulatum × **caricosum**

30, 46, 50 Reddy, P.S. & D'Cruz, R. 1968 1969a

annulatum × **Bothriochloa pertusa**

23, 26, 28,

36, 40 Roy, G.P. 1981

aristatum (Poir.) C.E. Hubb.

- 20 de Wet, J.M.J. 1954b ; Chheda, H.R. & Harlan, J.R. 1962 ; Reddy, P.S. & D'Cruz, R. 1966, 1967, 1969a ; D'Cruz, R. & Reddy, P.S. 1969 ; Sinha, R.R.P. & Jha, R.P. 1972
 20, 40 Celarier, R.P. *et al.* 1962 ; de Wet, J.M.J. *et al.* 1963
 20, 40, 60 de Wet, J.M.J., Mehra, K.L. & Borgaonkar, D.S. 1961
 40 de Wet, J.M.J. & Anderson, L.J. 1956 ; de Wet, J.M.J. & Richardson, W.L. 1963
 80 Gould, F.W. 1968

nodosum Willemet

- 40 Oke, J.G. 1950

Andropogon nodosus (Willemet) Nash

- 40 Gould, F.W. 1956

aristatum × *caricosum*

- 20, 40 D'Cruz, R. & Reddy, P.S. 1969 ; Reddy, P.S. & D'Cruz, R. 1969a

caricosum (Linn.) A. Camus

- 20 Reddy, P.S. & D'Cruz, R. 1966, 1969a, b ; D'Cruz, R. & Reddy, P.S. 1969
 40 Oke, J.G. 1950 ; Harlan, J.R. *et al.* 1958 ; de Wet, J.M.J., Mehra, K.L. & Borgaonkar, D.S. 1961 ; Celarier, R.P. *et al.* 1962 ; Chheda, H.R. & Harlan, J.R. 1962 ; de Wet, J.M.J. & Richardson, W.L. 1963 ; Mehra, P.N. *et al.* 1968 ; Sinha, R.R.P. & Jha, R.P. 1972
 40, 60 Celarier, R.P. & Harlan, J.R. 1957

Andropogon caricosus Linn.

- 50 Krishnaswamy, N. 1941

caricosum Linn. (2n=20) × *aristatum* (2n=20)

- 20+B D'Cruz, R. & Reddy, P.S. 1967

macranthi Blatt.

- 20 de Wet, J.M.J. *et al.* 1963 ; Harlan, J.R. *et al.* 1964 ; de Wet, J.M.J. & Singh, A.P. 1964

panthganiense Blatt. & McCann

- 20 de Wet, J.M.J. *et al.* 1963 ; de Wet, J.M.J. & Richardson, W.L. 1963 ;

Harlan, J.R. *et al.* 1964 ; de Wet, J.M.J. & Singh, A.P. 1964

Diectomis Kunth

1 ; tropics, Bengal to Madhya Pradesh.

fastigiata (Swartz) Kunth

- 20 Moffett, A.A. & Hurcombe, R. 1949 ; Larsen, K. 1963b ; Pohl, R.W. & Davidse, G. 1971 ; Trouin, M. 1972 ; Davidse, G. & Pohl, R.W. 1974

Andropogon fastigiatus Swartz

- 20 Olorode, O. 1974b ; Kammacher, P. *et al.* 1973

Digitaria Heist. ex Fabr.

380 ; warmer parts of the world. 29 ; throughout India, abundant in Eastern Himalaya and Southern India, and Sri Lanka a few introduced.

abundans (Roem. & Schult.) Veldk.

granularis (Trin.) Hear.

- 36 Gupta, P.K. 1963b, 1969a, 1971 ; Larsen, K. 1963b ; Gupta, P.K. & Srivastava, A.K. 1969 ; Sharma, M.L. & Sharma, K. 1979 ; Sharma, M.L. & Kumar, P. 1980

nicomis (Lam.) Roem. & Schult. ex Loud.

- 36 Chen (Hsu, C. 1964)
 36, 72 Gould, F.W. & Soderstrom, T.R. 1974
 54 Azam, F. *et al.* 1969 ; Mehra, P.N. & Remanandan, P. 1973b
 72 Mehra, P.N. *et al.* 1968 ; Gupta, P.K. *et al.* 1974 ; Sharma, M.L. & Kumar, P. 1980

biformis Willd.

- 18 Mehra, P.N. & Chaudhary, J.D. 1975
 36 Christopher, J. & Abraham, A. 1976
 54 Gupta, P.K. 1963b ; Azam, F. *et al.* 1969 ; Mary, T.N. & Malik, C.P. 1971
 72 Mehra, P.N. *et al.* 1968 ; Gupta, P.K. & Srivastava, A.K. 1969 ; Mehra, P.N. & Chaudhary, J.D. 1976 ; Sharma, M.L. & Kumar, P. 1980

ssp. lamarckiana Henr.

- 54, 72
72+2B Mary, T.N. & Malik, C.P. 1971

ciliaris (Retz.) Koel.

- 18 Mehra, P.N. & Sharma, M.L. 1973
18, 54 Mehra, P.N. & Sharma, M.L. 1975b
36 Sarkar, A.K. *et al.* 1976
54 Hirayoshi, I. & Yasuo, T. 1955
72 Mehra, P.N. & Remanandan, P. 1973b; Bir, S.S., Ojil, B.S., Singhal, V.K. & Bedi, Y.S. 1979

adscendens (HBK.) Henr.

- 18 Hsu, C.-C. 1972
36 Nath, J. & Swaminathan, M.S. 1957; Nath, J. *et al.* 1970
36, 72 Mehra, P.N. & Kohli, B.L. 1966; Mehra, P.N. *et al.* 1968
54 Tateoka, T. 1954, 1965c; Gould, F.W. 1963, 1966; Larsen, K. 1963b; Chen (Hsu, C. 1964); Gould, F.W. & Soderstrom, T.R. 1967; Reeder, J.R. 1967, 1968; Sindhe, A.N.R. 1967; Malik, C.P. & Mary, T.N. 1970b; Saxena, B.K. & Gupta, B.K. 1970; Muniyamma *et al.* 1976; Sarkar, A.K., Chakraborty, M. *et al.* 1976; Christopher, J. & Abraham, A. 1976
54, 70, 72 Pohl, R.W. & Davidse, G. 1971
54, 72 Gupta, P.K. 1971
60 Mulay, B.N. & Leelanima, P.J. 1956; Mulay, B.N. & Prasad, M.K. 1956
72 Gupta, P.K. & Srivastava, A.K. 1969; Khosla, P.K. 1972

chinensis Horn.

- 18 Ono, H. & Tateoka, T. 1953, 1954

marginata Link

- 36, 54 Raman, V.S. *et al.* 1959b
54 Sindhe, A.N.R. 1971
54, 72 Ramanathan, K. 1950

ssp. adscendens var. *cariniformis* Henr.

- 54,
54+2B Mary, T.N. & Malik, C.P. 1971

var. *chrysoblephara* (Fig. & de Not.) S.T. Blake

- 72 Gould, F.W. & Soderstrom, T.R. 1974

ssp. chrysoblephara

- 72 Gupta, P.K. & Srivastava, A.K. 1969

var. *ciliaris*

- 54, 72 Gould, F.W. & Soderstrom, T.R. 1974

cruciata (Nees) A. Camus

- 36 Mehra, P.N. & Kohli, B.L. 1966; Mehra, P.N. *et al.* 1968
36, 72 Mehra, P.N. & Sharma, M.L. 1975b
68 Mehra, P.N. & Sharma, M.L. 1973
72 Gould, F.W. & Soderstrom, T.R. 1974; Sharma, M.L. & Kumar, P. 1980

didactyla Willd.

- 18 Janaki Ammal, E.K. (D. 1945); Tateoka, T. 1965c
18, 36 Pritchard, A.J. & Gould, K.F. 1964
72 Khosla, P.K. & Mehra, P.N. 1973

eriantha Steud.

- 18 Moffett, A.A. & Hurcombe, R. 1949
36 Nath, J. & Swaminathan, M.S. 1957; Nath, J. *et al.* 1970
40 de Wet, J.M.J. 1954b; Mehra, P.N. *et al.* 1968

fuscescens (Presl) Henr.

- 18 Gould, F.W. & Soderstrom, T.R. 1967; Christopher, J. & Abraham, A. 1976; Dujardin, M. 1979b
36 Gould, F.W. & Soderstrom, T.R. 1974

griffithii Stapf

- 54 Raman, V.S. *et al.* 1959b

ischaemum (Schreb.) Schreb. ex Muhi.

- 36 Brown, W.V. 1948; Ono, H. & Tateoka, T. 1953; Hubbard, C.E. 1954; Platzer, H. 1962; Mehra, P.N. *et al.* 1968; Mary, T.N. & Malik, C.P. 1971; Tomkins, D.J. & Grant, W.F. 1978
45 Löve, A. & Löve, D. 1948

longiflora (Retz.) Pers.

- 18 de Wet, J.M.J. & Anderson, L.J. 1956; de Wet, J.M.J. 1960a; Larsen, K. 1963b; Gould, F.W. & Soder-

- strom, T.R. 1974; Mehra, P.N. & Sharma, M.L. 1975b
- 34 Thomas (D. 1955)
- 36 Christopher, J. & Abraham, A. 1976; Dujardin, M. 1979a
- 72 Azam, F. *et al.* 1969; Mary, T.N. & Malik, C.P. 1971
- nodosa* Parl.
- 36 Gould, F.W. 1970
- pentzli* Steud
- 18, 27, 35,
36, 45, 54 Pritchard, A.J. & Gould, K.F. 1964
- 36 Burton, G.W. 1942
- 36+3B Shambulingappa, K.G. 1968b
- 54 Moffett, A.A. & Hurcombe, R. 1949
- radicosa* (Presl) Miq.
- timorensis* (Kunth) Bal.
- 18 Chen (Hsu, C. 1964)
- 49, 54 Mary, T.N. & Malik, C.P. 1971
- c.54 Larsen, K. 1963b
- 72 Janaki Ammal, E.K. (D. 1945); Khosla, P.K. 1972
- sanguinalis* (Linn.) Scop.
- 18 Mehra, P.N. *et al.* 1968
- 18, 76 Sharma, A.K. & Jhuri, L. 1959
- 28 Church, G.L. 1929b; Malik, C.P. & Mary, T.N. 1970b; Mary, T.N. & Malik, C.P. 1971
- 28, 36 Helser, C.B. & Whitaker, T.W. 1948
- 36 Avdulov, N.P. (Fedorov); Pólya, L. 1950; Hubbard, C.E. 1954; de Wet, J.M.J. 1958a; Platzer, H. 1962; Gould, F.W. 1963; Tateoka, T. 1965a; Fernandes, A. & Queiroz, M. 1969; Ismail, F.-A. 1971; Reeder, J.R. 1971; Javůrková, V. 1980
- 36,
36+2B Rashid, A. 1974
- 36-43 Brown, W.V. 1948
- 54 Covas, G. & Schnack, B. 1947; Nunez, O. 1952
- Panicum sanguinale* Linn.
- 36 Avdulov, N.P. (Fedorov); Tischler, G. 1934; Krishnaswamy, N. 1941; Delay, C. 1947
- Paspalum sanguinale* (Linn.) Lam.
- 30 Ismail, F.-A. 1971
- setigera* Roth *apud* Roem. & Schult.
- 36 Mehra, P.N. & Chaudhary, J.D. 1975
- 54 Mehra, P.N. & Sharma, M.L. 1975b; Mehra, P.N. *et al.* 1968; Malik, C.P. & Mary, T.N. 1970b; Mary, T.N. & Malik, C.P. 1971; Christopher, J. 1976
- 72 Mehra, P.N. & Chaudhary, J.D. 1974
- microbachne* (Presl) Henr.
- 72 Christopher, J. & Abraham, A. 1976
- stricta* Roth
- 18 Bir, S.S., Gill, B.S. & Kalia, S. 1980
- 36 Mehra, P.N. & Kohli, B.L. 1966; Mehra, P.N. *et al.* 1968; Khosla, P.K. 1972; Mehra, P.N. & Remanandan, P. 1973b; Sharma, M.L. & Kumar, P. 1980
- var. *stricta*
- 36 Gupta, P.K. & Srivastava, A.K. 1969
- ternata* (A. Rich.) Stapf
- 30 de Wet, J.M.J. 1958a
- 36 Mehra, P.N. & Sharma, M.L. 1973; Mehra, P.N. & Chaudhary, J.D. 1975; Mehra, P.N. & Sharma, M.L. 1975b
- 54 Larsen, K. 1963b
- fomentosa* (Koen.) Henr.
- 36 Christopher, J. 1976
- violascens* Link
- 18 Mehra, P.N. & Sharma, M.L. 1973
- 18, 36 Mehra, P.N. & Sharma, M.L. 1975b
- 36 Tateoka, T. 1954; Hau, C.-C. 1972; Davidse, G. & Pohl, R.W. 1974; Christopher, J. & Abraham, A. 1976
- wallichiana* Stapf
- 36 Christopher, J. & Abraham, A. 1976

Dimeria R. Br.

40 ; Mascarene, South East Asia, Indo-Malesia, Australia and Polynesia. 21 ; chiefly in Southern India, and Nepal and Sri Lanka.

fuscescens Trin.

50 Mehra, P.N. & Kalia, V. 1975

lehmannii Hack.

32, 46 Gould, F.W. & Soderstrom, T.R. 1974

ornithopoda Trin.

32 Christopher, J. 1978

var. **khasiana** Bor

14 Mehra, P.N. & Kalia, V. 1975

var. **ornithopoda**

14 Mehra, P.N. & Kalia, V. 1975

Dinebra Jacq.

1 ; tropical Africa and Asia. Western Peninsula, and Sri Lanka.

retroflexa (Vahl) Panz.

20 Avdulov, N.P. (Fedorov) ; de Wet, J.M.J. & Anderson, L.J. 1956 ; Shanthamma, C. *et al.* 1976 ; Shanthamma, C. & Narayan, K.N. 1976-1977

arabica Jacq.

20 Krishnaswamy, N. 1941

Diplachne P. Beauv.

15 ; tropics and subtropics. 1 ; North Western, Western and Eastern India, and Sri Lanka.

fusca (Linn.) P. Beauv.

20 Larsen, K. 1963b

Duthlea Hack.

3 ; Afghanistan, Kashmir and Nepal. 1 ; Kashmir.

bromoides Hack.

28 Mehra, P.N. & Sharma, M.L. 1975f, 1977

Eccoitopus Steud.

4 ; North India to Japan and Formosa. 1 ; temperate Himalaya and Khasi and Naga Hills.

estalifer (Thunb.) A. Camus

40 Ono, H. & Tateoka, T. 1953 ; Tateoka, T. 1954 ; Celarier, R.P. 1956a ; Chen, C.C. & Hsu, C.C. 1962 ; Mehra, P.N. & Kalia, V. 1976

Echinochloa P. Beauv.

30 ; warmer parts of the world. 8 ; most are widely distributed throughout India, and Sri Lanka.

colozum (Linn.) Link

24, 48, 52 Mehra, P.N. & Kohli, B.L. 1966 ; Mehra, P.N. *et al.* 1968

36 Brown, W.V. 1950 ; Nunez, O. 1952

36, 54 Gould, F.W. & Soderstrom, T.R. 1974

48 Krishnaswamy, N. & Raman, V.S. 1949 ; Irmal, F.-A. 1971

c.54 Reeder, J.R. & Soderstrom, T.R. 1968

54 Singh, D.N. & Godward, M.B.E. 1960 ; Yabuno, T. 1962a, 1966 ; Gupta, P.K. 1963b, 1971 ; Larsen, K. 1963b ; Pritchard, A.J. & Gould, K.F. 1964 ; Tateoka, T. 1965a ; Gould, F.W. & Soderstrom, T.R. 1967 ; Gould, F.W. 1968 ; Sindhe, A.N.R. 1969 ; Pohl, R.W. & Davidse, G. 1971 ; Gould, F.W. *et al.* 1972 ; Sinha, R.R.P. & Jha, R.P. 1972 ; Mehra, P.N. & Remanandan, P. 1973b ; Olorode, O. 1974b ; Chatterji, A.K. 1975 ; Mehra, P.N. & Sharma, M.L. 1975b, 1977 ; Dujardin, M. 1979a

56 Bir, S.S. & Sidhu, M. 1978

72 Janaki Ammal, E.K. (D. 1945)

96, 108 Malik, C.P. & Tripathi, R.C. 1969

Panicum colonum Linn.

36 Chandola, R.P. 1959

- 56 Sharma, A.K. & Jhuri, L. 1959
130 Krishnaswamy, N. 1941
- crus-galli* (Linn.) P. Beauv.
36 Brown, W.V. 1948 ; Hubbard, C.E. 1954 ; Gould, F.W. 1966, 1968
36, 54 Yabuno, T. 1953, 1956
36, 54, 72 Gould, F.W. 1958
38 Ismail, F.-A. 1971
42 Church, G.L. 1929b ; Heiser, C.B. & Whitaker, T.W. 1948
48 Singh, D.N. & Godward, M.B.E. 1960
54 Nunez, O. 1952 ; Platzer, H. 1962 ; Yabuno, T. 1962a, b, 1966, 1968 ; Larsen, K. 1963b ; Chen, C. (Hsu, C. 1964) ; Fernandes, A. & Queiros, M. 1969 ; Gould, F.W. *et al.* 1972 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Christopher, J. & Abraham, A. 1976
- var. *breviata* Nees.
54 Mehra, P.N. & Kohli, B.L. 1966 ; Mehra, P.N. *et al.* 1968 ; Malik, C.P. & Tripathi, R.C. 1969, 1970
90 Malik, C.P. & Grover, I.S. 1972
- var. *crusgalli*
54 Mehra, P.N. & Kohli, B.L. 1966 ; Mehra, P.N. *et al.* 1968 ; Malik, C.P. & Tripathi, R.C. 1969, 1970
- Panicum crusgalli* Linn.
36 Chandola, R.P. 1959
c.54 Strid, A. 1971
54 Avdulov, N.P. (Fedorov) ; Tischler, G. 1934 ; Rohwedder, H. 1937 ; Delay, C. 1947
- crus-pavonis* (HBK) Schult.
18 Olorode, O. 1975
36 Parodi, L.R. 1946 ; Nunez, O. 1952 ; Pohl, R.W. & Davidse, G. 1971 ; Davidse, G. & Pohl, R.W. 1972b, 1974 ; Gould, F.W. *et al.* 1972
54 Singh, D.N. & Godward, M.B.E. 1960
- frumentacea* Link
36 Hunter, A.W.S. 1934
48 Malik, C.P. & Tripathi, R.C. 1969
54 Yabuno, T. 1953, 1962a, 1966, 1968a ; Singh, D.N. & Godward, M.B.E. 1960 ; Mehra, P.N. & Sharma, M.L. 1975b
56 Church, G.L. 1929b
- Panicum frumentaceum* Roxb.
36 Rau, N.S. 1929a
- glabrescens* Munro *ex* Hook. f.
36 Subramanyam, K. & Kamble, N.P. 1967
54 Sindhe, A.N.R. 1967 ; Sindhe, A.N.R. *et al.* 1975
- pyramidalis* (Lam.) Hitchc. & Chase
18 Yabuno, T. 1976
18,
36, 72, 90 Yabuno, T. 1968b
36 Yabuno, T. 1966 ; Malik, C.P. & Tripathi, R.C. 1969 ; Davidse, G. & Pohl, R.W. 1974
36, 54 Dujardin, M. 1979a
54 de Wet, J.M.J. & Anderson, L.J. 1956
72 Parodi, L.R. 1946 ; Nunez, O. 1952 ; Tateoka, T. 1965a ; Olorode, O. 1974b
- stagnina* (Retz.) P. Beauv.
18 Dujardin, M. 1978
36 Mehra, P.N. & Chaudhary, J.D. 1976
36,
54, 108,
126 Yabuno, T. 1968a
36, 54, 63,
108, 126 Yabuno, T. 1968b
36, 108,
126 Yabuno, T. 1966
54 Krishnaswamy, N. & Raman, V.S. 1949 ; Yabuno, T. 1978
54, c.72,
108 Gould, F.W. & Soderstrom, T.R. 1974
72 Mehra, P.N. & Chaudhary, J.D. 1975
c.108 Larsen, K. 1963b
108 Muniyamma, M. 1976b
108, 126 Yabuno, T. 1970
126 Muniyama, M. & Narayan, K.N. 1975
- Ehrharta* Thunb.
27 ; South Africa, Mascarene and New Zealand. 5 ; mostly introduced.
- calycina* J.E. Smith
24 Tateoka, T. 1957

- 24-28 Love, R.M. 1948
 24-30 Torhill, J.C. & Love, R.M. 1964
 48 Parthasarathy, N. 1939; de Wet,
 J.M.J. 1960a

erecta Lam.

- 24 Parthasarathy, N. 1939; de Wet,
 J.M.J. & Anderson, L.J. 1956;
 Tateoka, T. 1965a; Fernandes, A. &
 Queiros, M. 1969

longiflora J.E. Smith

- 48 Parthasarathy, N. 1939

Eleusine Gaertn.

9; tropics and subtropics. 3; 1
 throughout India, 1 North Western India,
 and Sri Lanka, 1 cultivated.

compressa (Forsk.) Aschera. & Schweinf.

- 45 Krishnaswamy, N. 1951

flagellifera Nees

- 45 Krishnaswamy, N. 1941

coracana (Linn.) Gaertn.

- 36 Avdulov, N.P. (Fedorov); Rau, N.S.
 1929a; Hunter, A.W.S. 1934;
 Krishnaswamy, N. 1941, 1951; Delay,
 C. 1947; Sharma, A.K. & De, D.N.
 1956b; Singh, D.N. & Godward,
 M.B.E. 1960; Gupta, P.K. 1963b,
 1969a, 1971; Singh, D.N. 1965a;
 Kempanna, C. & Setty, B.A.S. 1969;
 Chennaveeraiah, M.S. & Hiremath,
 S.C. 1974, Christopher, J. &
 Abraham, A. 1974; Seetharam, A.
et al. 1975

- 36 + I-2B Seetharam, A. *et al.* 1972

36, 37, 38,

- 39, 43 Seetharam, A. *et al.* 1973

coracana × *indica*

- 27 Chennaveeraiah, M.S. & Hiremath,
 S.C. 1974

indica (Linn.) Gaertn.

- 18 Avdulov, N.P. (Fedorov); Krishnas-
 wamy, N. 1941, 1951; Ono, H. &
 Tateoka, T. 1953; Tateoka, T.
 1954; Sharma, A.K. & De, D.N.
 1956b; Chandola, R.P. 1959; Sharma,
 A.K. & Jhuri, L. 1959; Singh, D.N.
 & Godward, M.B.E. 1960; Chen, C.C.
 & Hsu, C.C. 1962; Gupta, P.K.

1963b, 1971; Larsen, K. 1963b;
 Singh, D.N. 1965b; Mehra, P.N. *et*
al. 1968; Narayan, K.N. & Sindhe,
 A.N.R. 1968; Baquar, S.R. &
 Saeed, M. 1969; Malik, C.P. &
 Mary, T.N. 1970b; Hsu, C.-C.
 1972; Sinha, R.R.P. & Jha, R.P.
 1972; Chennaveeraiah, M.S. &
 Hiremath, S.C. 1974; Christopher,
 J. & Abraham, A. 1974; Gould,
 F.W. & Soderstrom, T.R. 1974;
 Olorode, O. 1974b; Mehra, P.N. &
 Sharma, M.L. 1975d, f; Sarkar, A.K.
et al. 1976; Sindhe, A.N.R. 1977;
 Dujardin, M. 1977a, b

- 36 Moffett, A.A. & Hurcombe, R.
 1949; Gould, F.W. & Soderstrom,
 T.R. 1967; Subramanyam, K. &
 Kamble, N.P. 1967

Elymus Linn.

70; North temperate and South
 America. 4; Himalaya and North Western
 India, and Pakistan.

dahuricus Turcz.

- 28 Brown, W.V. 1948

42 Avdulov, N.P. (Fedorov); Tateoka,
 T. 1954; Matsumura, S. &
 Sakamoto, S. 1955; Matsumura, S.
et al. 1956; Sakamoto, S. &
 Muramatsu, M. 1963

var. *dahuricus**Clinelymus dahuricus* Nevski

- 42 Sokolovskaya, A.P. & Strelkova, O.S.
 (Fedorov)

dasystachya Trin.

- 28 Dewey, D.R. 1970b, 1972c

Aneurolepidium dasystachys (Trin.) Nevski

- 28 Sokolovskaya, A.P. & Strelkova, O.S.
 (Fedorov); Sokolovskaya, A.P.
 (Fedorov); Bowden, W.M. 1957a

nutans Griseb.var. *nutans**Clinelymus nutans* (Griseb.) Nevski

- 42 Sokolovskaya, A.P. & Strelkova, O.S.
 (Fedorov)

sibiricus Linn.

- 28 Avdulov, N.P. (Fedorov); Nielsen,
 E.L. 1939; Tateoka, T. 1953;

Bowden, W.M. 1964 ; Mitcheli, W.W. & Hodgson, H.J. 1968 ; Dewey, D.R. 1974a ; Löve, A. 1980a

- 42 Tateoka, T. 1954 ; Matsumura, S. & Sakamoto, S. 1955 ; Matsumura, S. *et al.* 1956

Chusiyum sibiricus (Linn.) Nevski

- 28 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)

Elytrophorus P. Beauv.

4 ; tropical Africa, tropical Asia and Australia. 1 ; Eastern and Southern India, and Sri Lanka.

spicatus (Willd.) A. Camus

- 24 Mehra, P.N. & Kalia, V. 1975
26 Veyret, Y. 1958

Enneapogon Desv. ex P. Beauv.

30 ; warm regions. 4 ; North Western India, Upper Gangetic Plain and Southern India.

brachystachyus Stapf

- 36 de Wet, J.M.J. & Anderson, L.J. 1956

ceuthroides (Licht.) C.B. Hubb.

- 36 de Wet, J.M.J. & Anderson, L.J. 1956
40 Reeder, J.R. & Singh, D.N. 1968

sclimperans (Hochst. ex A. Rich.) Renv.

elegans (Nees ex Steud.) Stapf

- 20 Janaki Ammal, E.K. (D. 1945) ; Christopher, J. & Abraham, A. 1974 ; Muniyamma, *et al.* 1976

Enteropogon Nees

6 ; Africa, Madagascar, Seychelles. India, Formosa, Australia and Pacific. 1 ; Southern India, and Sri Lanka.

mopostachyos (Vahl) K. Schum.

- 20 Ramanathan, K. 1950 ; Sindhe, A.N.R. 1967 ; Sindhe, A.N.R. & Narayan, K.N. 1976

Eragrostiella Bor

7 ; India, Burma and Sri Lanka. 6 ;

Himalaya, Southern India, a few almost throughout India, and Nepal and Sri Lanka.

bifaria (Vahl) Bor

- 18 Christopher, J. & Abraham, A. 1974
40 Shanbhamma, C. 1976

bifaria (Vahl) Wight ex Steud.

- 40 Janaki Ammal, E.K. (D. 1945)

brachyphylla Bor

- 36 Patil, R.P. & Ghosh, K. 1962

leioptera (Stapf) Bor

- 20 Mehra, P.N. & Kalia, V. 1975

cardoides (Trin.) Bor

- 20 Mehra, P.N. *et al.* 1968
40 Mehra, P.N. & Kohli, B.L. 1966

Eragrostis P. Beauv. *emend.* Reichb.

About 300 ; cosmopolitan, abundant in subtropics. About 35 ; many widely distributed throughout India, and Nepal, Pakistan, Bangla Desh and Sri Lanka a few introduced.

aspera (Jacq.) Nees

- 20 Avdulov, N.P. (Fedorov) ; Moffett, A.A. & Hurcombe, R. 1949

atrovirens (Desf.) Trin. ex Steud.

- 20 Kammacher, P. *et al.* 1973
40 de Wet, J.M.J. 1960a
60 Larsen, K. 1963b ; Christopher, J. & Abraham, A. 1974 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Dujardin, M. 1978

ciliensis (All.) Vignolo-Lutati

- 20 Malik, C.P. & Tripathi, R.C. 1970 ; Reeder, J.R. 1971 ; Dujardin, M. 1979a
70 Mehra, P.N. *et al.* 1968

megastachya (Koen.) Link

- 20 Avdulov, N.P. (Fedorov) ; Parodi, L.R. 1946 ; Tateoka, T. 1954 ; Fernandez, A. & Queiroz, M. 1969
40 Ono, H. & Tateoka, T. 1953

ciliaris (Linn.) R. Br.

- 20 de Wet, J.M.J. 1960a ; Tateoka, T. 1962a, 1963a, c ; Mehra, P.N. *et al.*

- 1968 ; Gould, F.W. & Soderstrom, T.R. 1970 ; Dujardin, M. 1978
40 Moffett, A.A. & Hurcombe, R. 1949
- curvula* (Schrad.) Nees
20, 60 Pienaar, R. de V. 1955
40 Nielsen, E.L. 1939 ; de Wet, J.M.J. 1958a ; Mehra, P.N. *et al.* 1968
50 de Wet, J.M.J. 1954b
- ferruginea* (Thunb.) P. Beauv.
80 Tateoka, T. 1953, 1954, 1967
- gangetica* (Roxb.) Steud.
20 Dujardin, M. 1979a
80 Tateoka, T. 1965a
- lehmanniana* Nees
40 Pienaar, R. de V. 1955 ; Gould, F.W. 1964
60 Gould, F.W. 1960
- macilentia* (A. Rich.) Steud.
40 Tateoka, T. 1965a
- multicaulis* Steud.
40 Ono, H. & Tateoka, T. 1953 ; Tateoka, T. 1967
- nigra* Nees
40 Mehra, P.N. & Kohli, B.L. 1966 ; Mehra, P.N. *et al.* 1968
60 Christopher, J. 1976
- notata* (Retz.) Nees
60 Chen, C.C. & Hsu, C.C. 1962 ; Christopher, J. & Abraham, A. 1974 ; Gould, F.W. & Soderstrom, T.R. 1974
- chariis* (Schult.) Hitchc.
40 Janaki Ammai, E.K. (D. 1945) ; Mehra, P.N. *et al.* 1968
- pilosa* (Linn.) P. Beauv.
20 Baquar, S.R. & Saeed, M. 1969
35 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)
40 Ono, H. & Tateoka, T. 1953 ; Tateoka, T. 1954, 1965a ; Mehra, P.N. *et al.* 1968 ; Fernandes, A. & Queiros, M. 1969 ; Christopher, J. & Abraham, A. 1974
50 Mukherjee, P. 1977b, 1978
60 Bowden, W.M. & Senn, H.A. 1962
- poaeoides* P. Beauv.
30 Mulay, B.N. & Jagdisan, D. 1955 ; However (Swami, U.B.S. 1963)
40 Tateoka, T. 1954 ; Swami, U.B.S. 1963 ; Mehra, P.N. *et al.* 1968 ; Fernandes, A. & Queiros, M. 1969
- minor* Host
40 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)
60 Reeder, J.R. 1977
- robusta* Stent
70, 80 Pienaar, R. de V. 1955
- superba* Peyr
20 Dujardin, M. 1978
40 Moffett, A.A. & Hurcombe, R. 1949 ; Pienaar, R. de V. 1955 ; Mehra, P.N. *et al.* 1968 ; Shanthamma, C. *et al.* 1976 ; Shanthamma, C. & Narayan, K.N. 1976-1977 ; Reeder, J.R. 1977
- tel* (Zucc.) Trotter
- abyssinica* Link
40 Avdulov, N.P. (Fedorov) ; Parodi, L.R. 1946 ; Moffett, A.A. & Hurcombe, R. 1949
- tenella* (Linn.) P. Beauv. *ex* Roem. & Schult.
20 Chen, C.C. & Hsu, C.C. 1962 ; Larsen, K. 1963b ; Swami, U.B.S. 1963 ; Tateoka, T. 1965c ; Mehra, P.N. *et al.* 1968 ; Baquar, S.R. & Saeed, M. 1969 ; Olorode, O. 1975 ; Dujardin, M. 1979a
60 Christopher, J. & Abraham, A. 1974
- var. insularis* C.E. Hubb.
40, 60 Gould, F.W. & Soderstrom, T.R. 1974
- var. tenella*
20, 60 Gould, F.W. & Soderstrom, T.R. 1974
- tenifolia* Hochst. *ex* Steud.
40 Tateoka, T. 1965a ; Pohl, R.W. & Davidse, G. 1971 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Dujardin, M. 1979a, b

tremula Hochst. ex Steud.

- 20 Mulay, B.N. & Leelamma, P.J. 1956 ;
Tateoka, T. 1965a ; Dujardin, M.
1979a
30 Mulay, B.N. & Prasad, M.K. 1956
40 Christopher, J. & Abraham, A. 1974

trichodes (Nutt.) Wood

- 40 Mehra, P.N. & Kohli, B.L. 1966 ;
Mehra, P.N. *et al.* 1968 ; Reeder,
J.R. 1977

umbroides (Retz.) Nees ex Steud.

- 18 Mehra, P.N. & Sharma, M.L. 1973,
1975d
20 Christopher, J. & Abraham, A.
1974 ; Gould, F.W. & Soderstrom,
T.R. 1974
20, c.30 Larsen, K. 1963b
40 Mehra, P.N. & Kohli, B.L. 1966 ;
Mehra, P.N. *et al.* 1968

viscosa (Retz.) Trin.

- 40 Moffett, A.A. & Hurcombe, R. 1949 ;
de Wet, J.M.J. 1958a
40, 60 Gould, F.W. & Soderstrom, T.R.
1970
60 Tateoka, T. 1962a ; Davidson, G. &
Pohl, R.W. 1974

zeylanica Nees & Mey.

- 36, 40, 60,
c.80 Larsen, K. 1963b

Eremopoa Roshev.

6 ; South West and Central Asia to
Himalaya. 1 ; Western Himalaya.

persica (Trin.) Roshev.

- 28 Bowden, W.M. 1960a

var. *persica*

- 28 Podlech, D. & Diesterle, A. 1969 ;
Mehra, P.N. & Ramanandan, P.
1973a

var. *songarica* (Schrenk) Bor

- 14, 28 Podlech, D. & Diesterle, A. 1969

Eremopogon (Hack.) Stapf

4 ; warm Old World. 2 ; drier parts of

North Western, Central and Southern India
and Madhya Pradesh.

foveolatus (Del.) Stapf

- 40 Sampath, S. & Ramanathan, K.
1949 ; Mehra, K.L. *et al.* 1962 ;
Mehra, P.N. *et al.* 1968 ; Malik, C.P.
& Tripathi, R.C. 1970 ; Christopher,
J. 1978 ; Faruqi, S.A. *et al.* 1979

Andropogon foveolatus Del.

- 40 Gould, F.W. 1956
45 Krishnaswamy, N. 1941

Eremopyrum (Ledeb.) Jaub. & Spach

8 ; Mediterranean to Western
Himalaya. 3 ; Western Himalaya.

buonapartii (Spreng.) Nevski

- 14, 28 Bowden, W.M. 1962 ; Sakamoto, S. &
Muramatsu, M. 1963 ; Ross, P.L. &
Sarkar, P. 1967
28 Sarkar, P. 1958 ; Podlech, D. &
Diesterle, A. 1969 ; Chopanov, P. &
Yurtsev, V.N. 1973

var. *sublanuginosum* (Drob.) Melderis*hirautum* (Bertol.) Nevski

- 14 Sarkar, P. 1958 ; Ross, P.L. &
Sarkar, P. 1967

distans (C. Koch) Nevski

- 14 Sakamoto, S. & Muramatsu, M. 1963
14, 28 Ross, P.L. & Sarkar, P. 1967
28 Sarkar, P. 1958

orientale (Linn.) Jaub. & Spach

- 28 Sarkar, P. 1958 ; Sakamoto, S. &
Muramatsu, M. 1963 ; Ross, P.L. &
Sarkar, P. 1967

Agropyrum orientale Roem. & Schult.

- 28 Avdulov, N.P. (Fedorov) ; Schulz-
Schaeffer, J. & Jurastis, P. 1962

Erianthus Michx.

28 ; tropical America, South East
Europe to East Asia, Indo-Malesia and
Polynesia, 1 in Sahara and 1 in

Madagascar, 9; Himalaya (up to 2,000 m), and Nepal, Pakistan, Bhutan and Bangla Desh.

filifolius Nees ex Steud.

versicolor Nees

- 20 Mehra, P.N. & Remanandan, P. 1973b

longisetosus Anderss.

- 30 Larsen, K. 1963b; Mehra, P.N. & Kalia, V. 1976

var. *hookeri* (Hack.) Bor

hookeri Hack.

- 30 Jagathesan, D. & Sreenivasan, T.V. 1966

ravennae (Linn.) P. Beauv.

- 20 Celarier, R.P. 1956a; Babu, C.N. & Srinivasan, K. 1960; Jagathesan, D. & Rama Devi, K.N. 1969
20, 20
+1B Janaki Ammal, E.K. 1941
20, 20
+2B Jagathesan, D. & Sreenivasan, T.V. 1971
30 Mehra, P.N. & Kohli, B.L. 1966; Mehra, P.N. *et al.* 1968
60 Bremer, G. 1925

elephantinus Hook. f.

- 20 Babu, C.N. & Srinivasan, K. 1960; Jagathesan, D. & Rama Devi, K.N. 1969, 1971

rufipila (Steud.) Griseb.

- 20 Mehra, P.N. *et al.* 1968; Mehra, P.N. & Sharma, M.L. 1975a

Eriochloa Kunth

20; tropics and subtropics. 2; plains of India, and Sri Lanka, 1 introduced.

nubica (Steud.) Hack. & Stapf ex Thell.

- 18 Singh, D.N. & Godward, M.B.E. 1960
36 Nath, J. & Swaminathan, M.S. 1957; de Wet, J.M.J. 1960a; Tateoka, T. 1963a; Nath, J. *et al.* 1970

procera (Retz.) C.E. Hubb.

- 18 Mehra, P.N. *et al.* 1968; Hsu, C.-C. 1971
36 Raman, V.S. *et al.* 1959b; Mitra, K. & Datta, N. 1967; Roy, R.P. & Azam, F. 1967; Narayan, K.N. & Shanthamma, C. 1968; Narayan, K.N. & Muniyamma, M. 1969; Malik, C.P. & Mary, T. N. 1970b; Boraiah, A. & Fathima, T. 1972b; Hsu, C.-C. 1972; Gould, F.W. & Soderstrom, T.R. 1974; Christopher, J. & Abraham, A. 1976; Shanthamma, C. *et al.* 1976; Shanthamma, C. & Narayan, K.N. 1976, 1977

Euchlaena Schrad.

2; Mexico. 1; cultivated.

mexicana Schrad.

- 20 Longley, A.E. 1924a, 1937; Hunter, A.W.S. 1934; Reeves, R.G. & Mangelsdorf, P.C. 1935; Mangelsdorf, P.C. & Reeves, R.G. 1939; Parodi, L.R. 1946; Mangelsdorf, P.C. 1947; Shibata, K. 1957; Venkateswarlu, J. & Ramana, T.V. 1962b; Sinha, R.R.P. & Jha, R.P. 1972

Euclasta Franch.

1; tropical America and Africa. Madhya Pradesh.

condylotricha (Hochst.) Stapf

- 20 Davidse, G. & Pohl, R.W. 1974; Olorode, O. 1975

Andropogon piptatherus Hack.

- 40 Avdulov, N.P. (Fedorov)

Eulalia Kunth

30; tropical and subtropical Africa and Asia. 13; mostly in Himalaya, and Sri Lanka.

fastigiata (Nees) Haines

- 18 Mehra, P.N. & Sood, O.P. 1974b

- hirtifolia* (Hack.) A. Camus
20 Mehra, P.N. & Sharma, M.L. 1972, 1975a
40 Sindhe, A.N.R. 1980
- mollis* (Griseb.) O. Kuntze
18 Mehra, P.N. & Sharma, M.L. 1972, 1975a
36 Khosla, P.K. & Mehra, P.N. 1973
- quadrinervis* (Hack.) O. Kuntze
14+1B Mehra, P.N. & Sood, O.P. 1974b
- Pseudopogonatherum quadrinerve* (Hack.) Ohwi
40 Tateoka, T. 1954
- speciosa* (Deb.) O. Kuntze
40 Mehra, P.N. & Sood, O.P. 1974b
- trispicata* (Schult.) Heor.
18 Mehra, P.N. & Sood, O.P. 1974b
20 Mehra, K.L. *et al.* 1962; Gould, F.W. & Soderstrom, T.R. 1974; Christopher, J. 1978; Paruji, S.A. *et al.* 1979
- Eulaliopsis Honda**
2; India, China, Formosa and Philippine Islands. 1; Northern India.
- blatta* (Retz.) C.E. Hubb.
20 Sinha, K.R.P. & Jha, R.P. 1972
24 Mehra, P.N. & Kohli, B.L. 1966; Mehra, P.N. & Remanandan, P. 1973b
24,
24+3B Mehra, P.N. *et al.* 1968
- Festuca Linn.**
80; cosmopolitan. 15; Himalaya, and Nepal.
- altica* Trin.
28 Sokolovskaya, A.P. & Streikova, O.S. (Fedorov); Bowden, W.M. 1960a; Sokolovskaya, A.P. (Fedorov), 1968; Holmen, K. 1964; Zhukova, P.G. 1967a, 1968; Johnson, A.W. & Packer, J.G. 1968; Knaben, G. 1968; Mulligan, G.A. & Forslid, A.E. 1970; Dawe, J.C. & Murray, D.F. 1979
- arundinacea* Schrob.
14, 15, 21,
28, 41, 42,
42+1B,
42+2B,
43, 44, 56,
56+2B,
56+4B,
63, 70 Borzil, M. *et al.* 1971
28+1-4B Tripathi, R.C. & Malik, C.P. 1968
28, 42 Stahlin, A. 1929; Chandrasekharan, P. *et al.* 1972
28, 42, 70 Tischler, G. 1934; Rohweder, H. 1937; Malik, C.P. & Thomas, P.T. 1966, 1967; Malik, C.P. 1967a, b
42 Evans, G. 1926; Nilsson, F. 1940; Pólya, L. 1950; Hubbard, C.F. 1954; Tateoka, T. 1954; Löve, A. & Löve, D. 1956b; Gagnieu, A. & Braun, A. 1959; Malik, C.P. & Thomas, P.T. 1967; Taylor, R.L. & Mulligan, G.A. 1968; Malik, C.P. 1970; Buckner, R.C. *et al.* 1976; Uhríková, A. & Májovský, J. 1977; Sharma, M.L. & Sharma, K. 1979
42,
42+1B Crowder, L.V. 1956
42, 42
+1-3B Boserack, N.O. 1957
42, 70 Lewitsky, G.A. & Kuzmina, M.E. 1927; Thomas, P.T. 1962
70 Gonzalez-Bernaldez, F. *et al.* 1969
- arundinacea* × *gigantea*
42, 53-84,
80-84 Buckner, R.C. *et al.* 1976
- arundinacea* × *pratensis*
28+1B Malik, C.P. & Thomas, P.T. 1967
- ssp. *arundinacea*
42 Auquier, P. & Rammeloo, J. 1973
- cumbinata* Stapf
56 Mehra, P.N. & Sood, O.P. 1976
- gigantea* (Linn.) Vill.
28 Mehra, P.N. *et al.* 1968; Mehra, P.N. & Sunder, S. 1969; Mehra, P.N. & Sharma, M.L. 1975c
42 Lewitsky, G.A. & Kuzmina, M.E. 1927; Stahlin, A. 1929; Tischler, G. 1934; Rohweder, H. 1937; Pólya, L. 1950; Hubbard, C.F. 1954; Gagnieu, A. & Braun, A. 1959; Uhríková &

- Hindáková (Fedorov); Májovský, J. *et al.* 1970a; Malik, C.P. & Mary, T.N. 1970b; Skalińska, M. *et al.* 1971; Auquier P. & Rammeloo, J. 1973; Buckner, R.C. *et al.* 1976
- 42,
42+2B Holub, J. *et al.* 1972
- kasbmiriana** Stapf
42 Mehra, P.N. & Sharma, M.L. 1975f, 1977
56 Mehra, P.N. *et al.* 1968; Mehra, P.N. & Sharma, M.L. 1975c
- leptopogon** Stapf
28 Mehra, P.N. & Sharma, M.L. 1975c
28, 42 Mehra, P.N. & Sood, O.P. 1974b
- lucida** Stapf
14 Mehra, P.N. & Sunder, S. 1969
- modesta** Steud.
14 Sharma, M.L. & Sharma, K. 1972, 1979
28 Mehra, P.N. & Sunder, S. 1969
- ovina** Linn.
14 Church, G.L. 1936; Gustafsson, A. 1947b; Brandberg, B. 1948; Litardière, R. de 1950; Löve, A. & Löve, D. 1956b; Sokolovskaya, A.P. (Fedorov); Liptáková, G. 1963; Holmen, K. 1964; Knabon, G. & Engelskjön, T. 1967; Gadella, T.W.J. & Kliphuis, E. 1968a; Alekseev, E.B. 1974
- 14, 21, 28,
42, 49, 56,
70 Jones, K. 1957
14, 21, 42 Löve, A. & Löve, D. 1942a
14, 28 Gagnieu, A. & Braun, A. 1959; Malik, C.P. & Thomas, P.T. 1966
- 14, 14+1,
28, 28+1,
56 Bidault, M. 1964a, b
14, 28, 42 Stählin, A. 1929; Turesson, G. 1930, 1938; Rohweder, H. 1937
- 14, 28, 42,
56 Bidault, M. 1966a, b
- 14, 28, 42,
56, 70 Lewitsky, G.A. & Kuzmina, M.E. 1927; Tischler, G. 1934
- 21,
28, 42, 49 Turesson, G. 1931a; Fløvik, K. 1938, 1940
- 28 Nakajima, G. 1931; Gadella, T.W.J. & Kliphuis, E. 1971a; Auquier, P. & Rammeloo, J. 1973
28, 35 Skalińska, M. 1950
28, 36 Piotrowicz, M. 1954
28, 42, 56 Church, G.L. 1929a
42 Müntzing, A. 1937b; Hill, H.D. 1965; Mehra, P.N. & Sharma, M.L. 1975c
- parvigluma** Steud.
28 Tateoka, T. 1953
- polycola** Stapf
var. *brevis* Stapf
28 Mehra, P.N. & Sood, O.P. 1976
- var. *polycola*
42 Mehra, P.N. & Sood, O.P. 1976
- rabra** Linn.
14, 28, 42,
56, 70 Löve, A. & Löve, D. 1942a
14, 42 Stählin, A. 1929
14, 42, 56
70 Jones, K. 1957
28 Litardière, R. De 1950; Mehra, P.N. & Remanandan, P. 1973a
28, 42 Brandberg, B. 1948
42 Church, G.L. 1929a; Turesson, G. 1938; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Böcher, T.W. & Larsen, K. 1950; Tateoka, T. 1953; Löve, A. & Löve, D. 1956b; Bowden, W.M. 1960a; Holmen, K. 1964; Johnson, A.W. & Packer, J.G. 1968; Taylor, R.L. & Mulligan, G.A. 1968; Mehra, P.N. & Sunder, S. 1969; Zhukova, P.G. & Petrovsky, V.V. 1971; Zhukova, P.O. *et al.* 1973; Laine, U. *et al.* 1974; Reeder, J.R. 1977
- 42, 43,
55-56,
68-70 Lewitsky, G.G. & Kuzmina, M.E. 1927
- 42,
46, 47+1,
53+1, 64 Juhl, H. 1952b
42, 56 Tischler, G. 1934; Rohweder, H. 1937; Hubbard, C.E. 1954; Malik, C.P. & Thomas, P.T. 1966; Stace, C.A. & Cotton, R. 1974

- 42, c.56 Moore, R.J. *et al.* 1976
 c.49 Hedberg, O. 1967
 56 Müntzing, A. 1937b; Pólya, L. 1949; Juhl, H. 1953; Gagnieu, A. & Braun, A. 1959; Zhukova, P.G. (Fedorov)
- var. *clarkel* Stapf
 56 Mehra, P.N. & Sood, O.P. 1976
- var. *fallax* (Thuill.) Hack.
fallax Thuill.
 28 Kožuharov, S.I. & Petrova, A.V. 1973
 42 Maude, P.F. 1939, 1940
- undata* Stapf
 28, 42 Mehra, P.N. & Ramanandan, P. 1973a
 56 Mehra, P.N. & Sharma, M.L. 1972, 1975c
- var. *aristata* Stapf
 56 Mehra, P.N. & Sood, O.P. 1976
- valesaca* Schleicht.
 14 Bakšay, L. 1958; Alekscev, B.B. 1974
 28 Polžoldy, L.J.M. 1947b; Mehra, P.N. & Ramanandan, P. 1973a; Mehra, P.N. & Sharma, M.L. 1977
 42 Gagnieu, A. & Braun, A. 1959; Mehra, P.N. & Sunder, S. 1969; Chepanov, P. & Yurtsev, V.N. 1973
- sp.
 70 Mehra, P.N. & Sunder, S. 1969
- Garnotia** Brongn.
 30; East Asia, North East Australia and Pacific. 12; chiefly in Tamil Nadu, and Sri Lanka.
- arundinacea* Hook. f.
 20 Christopher, J. & Abraham, A. 1971; Muniyama, M. & Narayan, K.N. 1975
- elata* (Arn. ex Miq.) Janowsky
 20 Sindhe, A.N.R. 1967; Christopher, J. & Abraham, A. 1971; Sindhe, A.N.R. *et al.* 1975
 40 Muniyama, M. 1976b
- fergusonii* Trin.
 20 Sindhe, A.N.R. 1980
- schmidii* Hook. f.
 20 Sindhe, A.N.R. & Narayan, K.N. 1976
- scoparia* Thwaites
 20 Ramanathan, K. 1950; Tateoka, T. 1959b, 1960; Sindhe, A.N.R. 1967; Sindhe, A.N.R. & Narayan, K.N. 1976
- stricta* Brongn.
 20 Christopher, J. & Abraham, A. 1971
 20, 40+1B Mehra, P.N. & Sood, O.P. 1974b
 c.36 Larsen, K. 1963b
 38 Narayan, K.N. & Muniyama, M. 1969; Muniyama, M. & Narayan, K.N. 1975
 40 Sindhe, A.N.R. 1969; Sindhe, A.N.R. & Narayan, K.N. 1976
 60 Mehra, P.N. & Sharma, M.L. 1973, 1975d
- var. *khasiana* Stapf
 20 Christopher, J. & Abraham, A. 1971
- Germainia** Balans. & Poitr.
 3; Khasi Hills, South East Asia, 1 North East Australia. 1; Khasi Hills.
- khasiana* Hack.
 14 Mehra, P.N. & Kalra, V. 1975
- Gigantochloa** Kurz
 20; Indo-Malesia. 1; Hills of Eastern India, and Bangla Desh.
- macrostachya* Kurz
 52 Sarker, A.K., Datta, N., Mallick, R. & Chatterjee, U. 1976
- Glyceria** R. Br.
 40; cosmopolitan, especially North America. 2; Himalaya and Western Ghats.
- toonglensis* C.B. Clarke
 20 Mehra, P.N. & Sood, O.P. 1974b;

- Mehra, P.N. & Sharma, M.L. 1975f,
1977a, b
40 Mehra, P.N. & Sunder, S. 1969

Hackelochloa O. Kuntze

2; tropics, Southern China and Southern United States. 2; 1 throughout India, 1 in Eastern Himalaya.

granularis (Linn.) O. Kuntze

- 14 Celarier, R.P. 1957a; Larsen, K. 1963b; Gupta, P.K. 1969a, 1971; Pohl, R.W. & Davidse, G. 1971; Reeder, J.R. 1971; Christopher, J. 1978; Dujardin, M. 1978

porifera (Hack.) Rhind

- 30 Mehra, P.N. & Kalia, V. 1974

Helictotrichon Bess. ex Roem. & Schult.

90; Europe, tropical and South Africa, Asia, 1 in Java, 2 in West North America and 1 in temperate South America. 6; Himalaya and Southern India, and Sri Lanka, 1 introduced.

asperum (Munro) Bor

- 28 Christopher, J. & Abraham, A. 1971; Mehra, P.N. & Sharma, M.L. 1972
28, 42 Mehra, P.N. & Sharma, M.L. 1975c
42 Mehra, P.N. & Sood, O.P. 1974b

pratense (Linn.) Pilger

- 43 Hubbard, C.E. 1954
126 Hedberg, I. 1961

Avena pratensis Linn.

- c.98,
c.112 Gervais, C. 1968

virescens (Nees) Honr.

- 28 Mehra, P.N. & Sharma, M.L. 1975f,
1977
42 Sharma, M.L. & Sharma, K. 1978,
1979
56 Sharma, M.L. & Kumar, P. 1980

Hemarthria R. Br.

10; tropical Africa, Madagascar, East

Asia and Indo-Malesia. 4; Northern and Southern India, 1 throughout India, and Sri Lanka.

altissima Stapf & C.E. Hubb.

- 16 Olorode, O. 1974b
20 de Wet, J.M.J. 1954b; de Wet, J.M.J. & Anderson, L.J. 1956
36 Davidse, G. & Pohl, R.W. 1972a, b

compressa (Linn. f.) R. Br.

- 18 Gould, F.W. & Soderstrom, T.R. 1974; Mehra, P.N. & Sharma, M.L. 1975f; Farooqi, S.A. *et al.* 1979; Sharma, M.L. & Sharma, K. 1979
20 Mehra, P.N. *et al.* 1968
36 Roy, R.P. & Singh, D.N. 1956; Singh, D.N. 1964; Gupta, P.K. & Yashvir 1971; Mehra, P.N. & Sharma, M.L. 1975, 1975g
54 Chen, C.C. & Hsu, C.C. 1962

protensa Steud.

- 18 Mehra, P.N. & Kalia, V. 1975
54 Mehra, P.N. & Kalia, V. 1974

Heteropholis C.E. Hubb.

2; tropical East Africa, Madagascar and Sri Lanka. 1; Sri Lanka.

nigrescens (Thwaites) C.E. Hubb.

- 36 Gould, F.W. & Soderstrom, T.R. 1974

Heteropogon Pers.

12; tropics. 7; chiefly in Western and Southern India, and Sri Lanka.

contortus (Linn.) P. Beauv. ex Roem. & Schult.

- 20 Janaki Ammal, E.K. (D. 1945)
20, 40 Singh, D.N. 1964; Christopher, J. 1978
20,
40, 60, 80 Emery, W.H.P. & Brown, W.V. 1958
39, 40, 50,
60, 69, 70,
80, 90 Toothill, J.C. & Hacker, J.B. 1976
40 Larsen, K. 1963b; Tateoka, T. 1965a; Kammacher, P. *et al.* 1973; Mehra, P.N. & Sharma, M.L. 1975a;

- Dujardin, M. 1979a ; Faruqi, S.A. *et al.* 1979
- 40, 40-44,
60 Mehra, K.L. 1954
- 40, 50, 60 Gupta, P.K. 1969a, 1971
- 40, 60 Mehra, P.N. & Kohli, B.L. 1966 ;
Mehra, P.N. *et al.* 1968 ; Sinha,
R.R.P. & Jha, R.P. 1972
- 44 Moffett, A.A. & Hurcombe, R. 1949
- 50 Roy, R.P. *et al.* 1965
- 60 Brown, W.V. 1951 ; de Wet, J.M.J.
& Anderson, L.J. 1956 ; de Wet,
J.M.J. 1958a ; Gupta, P.K. 1963b ;
Gould, F.W. 1966, 1968 ; Davidse, G.
& Pohl, R.W. 1972a, b ; Gould,
F.W. & Soderstrom, T.R. 1974

60,

c.70-80 Gould, F.W. 1956

melanocarpus (Ell.) Benth.

- 22 Moffett, A.A. & Hurcombe, R. 1949

tritens (R. Br.) Stapf *ex* Craib

- 22 Azam, F.
- et al.*
- 1969
-
- 60 Pritchard, A.J. & Gould, K.F. 1964

Hierochloë (J.G. Gmel.) R. Br.

30 ; temperate and cold regions and
tropical mountains. 4 ; Himalaya (up to
5,000 m), and Nepal.

khasiana C.B. Clarke

- 42 Mehra, P.N. & Sood, O.P. 1974b

luxa R. Br.

- 28 Mehra, P.N. & Remanandan, P. 1973a

Hilaria HBK

9 ; South West United States to
Central America. 1 ; introduced.

jamesii (Torr.) Benth.

- 36 Anderson, D.E. 1965

Holcus Linn.

8 ; distributed in Canaries, North
Africa, Europe to Asia Minor and Caucasia,
1 in South Africa. 2 ; introduced.

lanatus Linn.

- 14 Avdulov, N.P. (Fedorov) ; Stahlin, A.
-
- 1929 ; Tischler, G. 1934 ; Rohweder,
-
- H. 1937 ; Parodi, L.R. 1946 ; Heiser,
-
- C.B. & Whitaker, T.W. 1948 ;
-
- Litardière, R. de 1949b ; Hubbard,
-
- C.E. 1954 ; Jones, K. 1954, 1958 ;
-
- Löve, A. & Löve, D. 1956b ;
-
- Hedberg, I. & Hedberg, O. 1961 ;
-
- Curran, P.L. 1968 ; Gadella, T.W.J.
-
- & Kliphuis, E. 1968a ; Taylor, R.L.
-
- & Mulligan, G.A. 1968 ; Fernandes,
-
- A. & Queiros, M. 1969 ; Laane,
-
- M.M. 1969b ; Beddows, A.R. 1971 ;
-
- Pohl, R.W. & Davidse, G. 1971 ;
-
- Mehra, P.N. & Sharma, M.L. 1975c

14,

- 14+1-2B Bostmark, N.O. 1957 ; Böcher, T.W.
-
- & Larsen, K. 1958a

- 14+0-2B Skalińska, M.
- et al.*
- 1968

mollis Linn.

- 14 Stahlin, A. 1929 ; Tischler, G. 1934 ;
-
- Rohweder, H. 1937

- 14, 28 Fernandes, A. & Queiros, M. 1969

14, 28, 35,

- 42, 49 Jones, K. 1957

- 28 Löve, A. & Löve, D. 1944b ;
-
- Litardière, R. de 1949b ; Gadella,
-
- T.W.J. & Kliphuis, E. 1967

- 28, 35 Skalińska, M.
- et al.*
- 1971 ; Walter, R.
-
- 1973 ; Water, R. 1977

- 28, 35, 42 Beddows, A.R. & Jones, K. 1953 ;
-
- Hubbard, C.E. 1954

28,

- 35, 42, 49 Jones, K. 1954, 1958 ; Beddows, A.R.
-
- 1971

Hordeum Linn.

20 ; temperate. 8 ; chiefly in North
Western India, and Pakistan, 1 cultivated.

distichon Linn.

- 14 Nakao, M. 1911 (Ishikawa, M. 1916) ;
-
- Nikolseva, A.G. (Fedorov) ; Kihara,
-
- H. 1924 ; Griffies, F. 1925, 1927 ;
-
- Tanji, S. 1925 ; Ghimpu, V. 1929b,
-
- 1930 ; Kagawa, F. 1929a ; Lewitsky,
-
- G.A. 1930 ; Hasegawa, N. 1934 ;
-
- Lutkov, A.N. 1937 ; Parodi, L.R.
-
- 1946 ; Kumar, S.
- et al.*
- 1966

- 14 (28) Karpechevko, G.D. 1938a, b

glabrum Steud.

- 14 Morrison, J.W. 1959; Bowden, W.M. 1962, 1965a; Rajhathy, T. & Morrison, J.W. 1962; Thomas, P.T. 1962; Gould, F.W. 1970; Humphries, C.J. *et al.* 1978

stebbinsii Covas

- 14 Covas, G. 1949a, 1952; Morrison, J.W. 1959

leporinum Link

- 14 Trofimovskaja, A.J. & Kobyljansky, W.D. (Fedorov)
 28 Perak, J.T. 1943; Covas, G. 1952; Morrison, J.W. 1959; Rajhathy, T. & Morrison, J.W. 1962; Thomas, P.T. 1962; Waisel, Y. 1962; Dahlgren, R. *et al.* 1971
 28, 42 Bowden, W.M. 1962, 1965a

= *Cristion murinum* (Linn.) Löve

ssp. *leporinum* (Link) Löve

- 28 Löve, A. 1980b

murinum Linn.

- 14 Tanji, S. 1925; Ghimpu, V. 1931; Perak, J.T. 1943; Hubbard, C.B. 1954; Waisel, Y. 1962
 14, 28 Aase, H.C. 1935; Heiser, C.B. & Whitaker, T.W. 1948; Morrison, J.W. 1958, 1959; Van Loon, J.C. 1974
 28 Aase, H.C. & Powers, L.R. 1926; Griffes, F. 1927; Stählin, A. 1929; Tischler, G. 1934, 1937; Rohweder, H. 1937; Chin, Y.C. 1941; Löve, A. & Löve, D. 1944b; Myers, W.M. 1947; Pólya, L. 1949; Tateoka, T. 1953; Bowden, W.M. 1969; Thomas, P.T. 1962; Trofimovskaja, A.J. & Kobyljansky, W.D. (Fedorov); Strid, A. 1971; Van Loon, J. Chr. & de Jong, H. 1978; Van Loon, J. Chr. & Snelders, H.C.M. 1979
 28, 42 Rajhathy, T. & Morrison, J.W. 1962

ssp. *marinum*

- 28 Kliphuis, E. & Wierffing, J.H. 1979

= *Cristion murinum* (Linn.) Löve

ssp. *marinum*

- 28 Löve, A. 1980b

spontaneum C. Koch

- 19 Tanji, S. 1925; Aase, H.C. & Powers, L.R. 1926; Griffes, F. 1927; Araratyan, A.G. (Fedorov); Mechelke, F. 1951a; Trofimovskaja, A.J. & Kobyljansky, W.D. (Fedorov); Alexandrova, T.V. (Fedorov); Podlech, D. & Dieterle, A. 1969

var. *spontanum*

- 14 Kumar, S. *et al.* 1966

turkestanicum Nevski

- 28 Trofimovskaja, A.J. & Kobyljansky, W.D. (Fedorov); Bowden, W.M. 1965a; Podlech, D. & Dieterle, A. 1969
 28, 42 Sokolovskaya, A.P. & Stralkova, O.S. (Fedorov)

ulgare Linn.

- 7 (somatic haploid) Fedak, G. 1977a
 8 (somatic haploid) Fedak, G. 1977b
 8, 16 Finch, R.A. & Kasha, K.J. 1976
 14 Nikolaeva, A.G. (Fedorov); Kihara, H. 1924; Griffes, F. 1925, 1927; Tanji, S. 1925; Aase, H.C. & Powers, L.R. 1926; Ghimpu, V. 1929a, b. 1930, 1931; Elenhorn, J. (Fedorov); Åberg, E. 1938; Doutreligne, J. 1939; Delay, C. 1947; Bhaduri, P.N. & Sharma, A.K. 1949b; Mecseike, F. 1951b, 1958; Sharma, A.K. 1956b; Sharma, A.K. & Mukherji, R.N. 1956; Morrison, J.W. 1959; Trofimovskaja, A.J. & Kobyljansky, W.D. (Fedorov); Kumar, S. *et al.* 1966; Mehra, P.N. *et al.* 1968; Kasha, K.J. & Sadasivaiah, R.S. 1971; Yoshida, H. *et al.* 1972; Sadasivaiah, R.S. & Kasha, K.J. 1973; Taleen, N.A. 1973; Sharma, R.K. & Reinbergs, E. 1974; Srivastava, H.M. 1974; Goswami, B.C. 1975; Lange, W. & Jochemsen, G. 1976; Prasad, G. 1977a; Mujeeb, K.A. *et al.* 1978; Nicoloff, H. *et al.* 1979; Grover, I.S. & Tyagi, P.S. 1980; Schubert, I. *et al.* 1980

14, 14 + 1,

- 14 + 2t Fedak, G. & Helgason, S.B. 1970

- 14-39 Sandfaer, I. 1979
 14,
 15, 27, 28 Dvořák, J. *et al.* 1973
 14, 28 Bowden, W.M. 1963a; Subrahman-
 yam, N.C. 1979; Schooler, A.B. &
 Anderson, M.K. 1980
 15 Prasad, G. 1977b
 16 Fedak, G. 1976
 22 Singh, R.J. & Tsuchiya, T. 1973
 28 Fedak, G. 1975

vulgare × *leporinum*

- 28 Fedak, G. 1975

sp.

- 14 Mehra, P.N. *et al.* 1968

Hygroryza Nees

1; Indo-Malesia. Throughout the greater part of India, and Bangla Desh and Sri Lanka.

aristata (Retz.) Nees *ex* Wight & Arn.

- 24 Hirayoshi, I. 1937; Ramanujam, S. 1938; Chen, C.C. & Hsu, C.C. 1962; Larsen, K. 1963b; Christopher, J. & Abraham, A. 1971

Hymenachne P. Beauv.

8; tropics. 2; Assam.

pseudointerrupta C. Muell.

- 20 Mehra, P.N. & Chaudhary, J.D. 1974
 36 Narayan, K.N. & Sindhe, A.N.R. 1968; Sindhe, A.N.R. *et al.* 1975

Hyparrhenia Anderss.

75; Mediterranean, Africa and Arabia (America?). 4; North Western India, Khasi Hills, Tamil Nadu, and Sri Lanka, 1 introduced.

cyatharia (Linn.) Stapf

- 20 de Wet, J.M.J. 1960a
 30 Tateoka, T. 1965c
 40 Harlan, J.R. & Celarier, R.P. 1952 (Carnahan, H.L. & Hill, H.D. 1961)

filipendula (Hochst.) Stapf

- 40 Dujardin, M. 1979a

griffithii Bor

- 32 Mehra, P.N. & Kalia, V. 1974

bicra (Linn.) Stapf

- 30 Garber, H.D. 1944; Larsen, K. 1954a
 30, 44 Krupko, S. 1953
 36 Humphries, C.J. *et al.* 1978
 36, 54,
 c.56, 56 Faruqi, S.A. & Quraish, H.B. 1978
 36, 54, 56 Faruqi, S.A. 1979
 40 Faruqi, S.A. *et al.* 1979
 40,
 40+1B
 c.48, 60 Gould, F.W. 1970
 40, 45 Fernandes, A. & Queiroz, M. 1969
 40, 60 Gould, F.W. 1956
 c.60 Davidse, G. & Pohl, R.W. 1974

rufa (Nees) Stapf

- 20 Tateoka, T. 1965a
 30 Celarier, R.P. 1956b
 36 Tateoka, T. 1965c
 40 de Wet, J.M.J. 1958a; Dujardin, M. 1979a

Ichnanthus P. Beauv.

26; 1 Indo-Malesia and Australia, 25 in tropics (especially South America). 1; plains and hills of Eastern India (up to 1,500 m), and Sri Lanka.

vicina (F.M. Bail.) Merr.

- 20 Hsu, C.-C. 1971
 20, 40 Hsu, C.-C. 1972
 40 Chen, C. & Hsu, C. 1961; Mehra, P.N. & Chaudhary, J.D. 1974

luperata Cyr.

10; tropics and subtropics. 1; throughout the greater part of India, and Sri Lanka.

cylindrica (Linn.) P. Beauv.

- 20 Jangki Annal, E.K. 1941; Tateoka, T. 1953; Chen, C.C. & Hsu, C.C. 1962; Mehra, K.L. *et al.* 1962; Gupta, P.K. 1963b, 1971; Larsen, K.

- 1963b; Singh, D.N. 1964; Mehra, P.N. *et al.* 1968; Ismail, F.-A. 1971; Gould, F.W. & Soderstrom, T.R. 1974; Christopher, J. 1978
- 20, 40 Sinha, R.R.P. & Jha, R.P. 1972
- 20, 52 Faruqi, S.A. *et al.* 1979
- 60 Fernandes, A. & Queiros, M. 1969
- var. major** (Nees) C.E. Hubb.
20 Roux, J. 1958
- arundinacea** Cyr.
20 Bremer, G. 1925
- Indocalamus** Nakai
20; Indo-Malesia, China and Formosa.
4; Southern India, and Sri Lanka.
- wightianus** Nakai
48 Janaki Ammal, E.K. (D. 1945);
1959
- Isachne** R. Br.
60; tropics and subtropics. 25; chiefly
in Southern India, and Nepal, Pakistan,
Bangla Desh and Sri Lanka.
- albens** Trin.
20 Larsen, K. 1963b
40 Mehra, P.N. & Sharma, M.L. 1973,
1975d
60 Chen, C. & Hsu, C. 1961
- clerkii** Hook. f.
20 Mehra, P.N. & Sood, O.P. 1975
40 Mehra, P.N. & Sharma, M.L. 1972,
1975d
- dispar** Trin.
20 Sindhe, A.N.R. 1969; Sindhe, A.N.R.
et al. 1975
40 Narayan, K.N. & Muniyamma, M.
1969; Muniyama, M. & Narayan,
K.N. 1975
- globosa** (Thunb.) O. Kuntze
60 Tateoka, T. 1953, 1957
c.90 Chen, C. & Hsu, C. 1961
- var. effusa** (Trin.) Senar.
20 Gould, F.W. & Soderstrom, T.R.
1974
- var. globosa**
60 Gould, F.W. & Soderstrom, T.R.
1974
- himalica** Hook. f.
50 Mehra, P.N. & Sood, O.P. 1974b
- kunthiana** (Wight & Arn.) Miq.
60 Muniyamma, M. 1968; Muniyama,
M. & Narayan, K.N. 1975
- var. striatior** (Hook. f.) Ait.
60 Gould, F.W. & Soderstrom, T.R.
1974
- var. kunthiana**
60 Gould, F.W. & Soderstrom, T.R.
1974
- millacea** Roth
20 Narayan, K.N. & Sindhe, A.N.R.
1968; Christopher, J. & Abraham,
A. 1976; Sindhe, A.N.R. 1977
- sikkimensis** Bor
40 Mehra, P.N. & Sharma, M.L. 1972,
1975d
- walkerii** (Arn.) Wight & Arn.
40 Gould, F.W. & Soderstrom, T.W.
1974
- Ischaemum** Linn.
50; tropics and subtropics. 31;
chiefly in Western and Southern India, and
Nepal, Bangla Desh and Sri Lanka.
- aristatum** Linn.
24 Joshi, A.B. *et al.* 1959
40 Oke, J.G. 1973b
40, 60 Oke, J.G. 1971, 1973a
72 Chen, C.C. & Hsu, C.C. 1962
- var. giganteum**
60 Oke, J.G. 1973b
- commutatum** Hack.
c.29, 40 Gould, F.W. & Soderstrom, T.R.
1974

diplopogon Hook.

- 20 Oke, J.G. 1971, 1973a, b
40 Celarier, R.P. 1957a

fuscinum Bor

- 40 Oke, J.G. 1971, 1973a, b

goehelii Hack.

- 38 Mehra, P.N. & Sood, O.P. 1974b

hirtum Hack.

- 20 Mehra, P.N. & Sood, O.P. 1974b

hubbardi Bor

- 40 Mehra, P.N. & Sood, O.P. 1974b

impressum Hack.

- 20 Oke, J.G. 1971, 1973a, b
40 Gould, F.W. & Soderstrom, T.R.
1974

indicum (Houtt.) Merr.

- 36 Chen, C.C. & Hsu, C.C. 1962 ;
Gould, F.W. & Soderstrom, T.R.
1974
40 Sindhe, A.N.R. 1967 ; Reeder, J.R.
& Soderstrom, T.R. 1968
52 Mehra, P.N. & Sood, O.P. 1974b

var. *indicum*

- 40 Sindhe, A.N.R. & Narayan, K.N.
1976

ciliare Retz.

- 18 Pohl, R.W. & Davidse, G. 1971
20 Oke, J.G. 1971, 1973a, b
54 Celarier, R.P. 1957a

var. *indicum*

- 18 Christopher, J. 1978

var. *wallichii* (Hack.) Bor

- 18 Christopher, J. 1978

kingii Hook.

- 20 Oke, J.G. 1971, 1973a, b

mangalanicum (Hack.) Stapf ex Fischer

- 20 Sindhe, A.N.R. 1967 ; Sindhe, A.N.R.
& Narayan, K.N. 1976
20, c.27 Gould, F.W. & Soderstrom, T.R.
1974

molle Hook.

- 20 Christopher, J. 1978
30 Oke, J.G. 1971, 1973a, b

muticum Linn.

- 34 Christopher, J. 1978
c.34, 36 Gould, F.W. & Soderstrom, T.R.
1974

nilagiricum Hack.

- 20 Christopher, J. 1978
40 Sindhe, A.N.R. & Narayan, K.N.
1976

pilosum Wight

- 60 Oke, J.G. 1971, 1973a, b

rangacharianum Fischer

- 40 Christopher, J. 1978

rithichii Stapf

- 20 Oke, J.G. 1971, 1973a, b

rugosum Salisb.

- 18 Celarier, R.P. 1957a ; Roy, R.P. &
Kumari, S. 1967a ; Mehra, P.N. *et*
al. 1968 ; Pohl, R.W. & Davidse, G.
1971 ; Davidse, G. & Pohl, R.W.
1974
20 Singh, D.N. & Godward, M.B.E.
1960
20, 40 Oke, J.G. 1973b
20, 40, 60 Oke, J.G. 1971
40, 60 Oke, J.G. 1973a
44 Sindhe, A.N.R. & Narayan, K.N.
1976

var. *robusta*

- 60 Oke, J.G. 1973b

santapauli Bor

- 20, 40 Oke, J.G. 1971, 1973a, b

aculisagittatum Roab.

- 20 Oke, J.G. 1971, 1973a, b

thomsonianum Stapf

- 20 Christopher, J. 1978
40 Oke, J.G. 1971, 1973a, b ; Sindhe,
A.N.R. & Narayan, K.N. 1976

timorense Kunth

- 20 Bremer, G. 1925
36 Celarier, R.P. 1957a

travancorensis Stapf ex Fischer

20 Christopher, J. 1978

zeylanicum Bor

20 Christopher, J. 1978

40 Gould, F.W. & Soderstrom, T.R. 1974

Ischnochloa Hook. f.

1 ; Western Himalaya (up to 2,100 m).

falconeri Hook. f.

40 Mehra, P.N. & Sharma, M.L. 1972, 1975a

Iseilema Anderss.

22 ; Indo-Malesia and Australia. 6 ; chiefly in Southern India, a few in Western India and Bihar, 1 throughout India.

antheboroides Hack.

6 Rao, T.N.V.R. 1962

10 Venkateswarlu, J. & Murty, U.R.K. 1967 ; Murty, U.R. & Satyavathi, D. 1971 ; Satyavathi, D. & Murty, U.R. 1973, 1974a

30 Murty, U.R.K. 1965

holei Haines16 Azam, F. *et al.* 1969*hubbardii* Murty

6 Murty, U.R. & Satyavathi, D. 1971 ; Satyavathi, D. & Murty, U.R. 1973, 1974a, b

2 τ =6 \times 4 π =12

7, 8, 9 Satyavathi, D. & Murty, U.R. 1974b

laxum Hack.

8 Celarier, R.P. & Paliwal, R.L. 1957

10 Murty, U.R.K. 1965

c.20, 28 Gould, F.W. & Soderstrom, T.R. 1974

24 Swami, U.B.S. 1963

28 Joshi, A.B. *et al.* 1959 ; Patil, R.P. & Ghosh, K. 1962 ; Rao, T.N.V.R. 1962

28+0-6B Murty, U.R. 1972

28, 30 Murty, U.R. & Satyavathi, D. 1974

28+1-6B,

30 Venkateswarlu, J. & Murty, U.R.K. 1967

30 Murty, U.R. & Satyavathi, D. 1971

36 Ramanathan, K. 1950

prostratum Hack.20 Venkateswarlu, J. & Murty, U.R.K. 1967 ; Mehra, P.N. *et al.* 1968 ; Murty, U.R. & Satyavathi, D. 1971 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Christopher, J. 1978*wightii* Anderss.28 Joshi, A.B. *et al.* 1959*venkateswarlni* Satyav.

8 Murty, U.R. & Satyavathi, D. 1971 ; Satyavathi, D. & Murty, U.R. 1973, 1974a ; Birari, S.P. & D'Cruz, R. 1978

Jansenella Bor

1 ; India and Sri Lanka. Western Ghats and Assam Hills.

griffithiana (C. Muell.) Bor

20 Sindhe, A.N.R. 1969 ; Christopher, J. & Abraham, A. 1971 ; Mehra, P.N. & Kalia, V. 1974 ; Sindhe, A.N.R. & Narayan, K.N. 1976

Koeleria Pers.

60 ; macrospecies (100 microspecies) ; North and South temperate. 2 ; North Western India (ascending Himalaya up to 4,300 m), and Nepal and Pakistan.

cristata (Linn.) Pers.

14 Bowden, W.M. 1960b ; Ujhelyi, J. 1961a, b ; Taylor, R.L. & Brockman, R.P. 1966 ; Mehra, P.N. & Ramanathan, P. 1973a ; Mehra, P.N. & Sharma, M.L. 1975c, 1977 ; Sharma, M.L. & Sharma, K. 1979

14+0-3B Mehra, P.N. & Sunder, S. 1969

14+1-2B Tateoka, T. 1953

14, 28 Robertson, P.A. 1974

28 Stebbins, G.L. & Love, R.M. 1941 ; de Wet, J. M.J. 1960a

- 42 Böcher, T.W. 1943h
70 Avdulov, N.P. (Fedorov)

gracilis Pers.

- 14 Hedberg, O. 1957
14, 15 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)
28 Maude, P.F. 1940; Hubbard, C.E. 1954; Hedberg, I. & Hedberg, O. 1961; Labadie, J.P. 1976
28, 30 Maude, P.F. 1939

Lagurus Linn.

1; Mediterranean. Kashmir, probably an escape from cultivation.

ovatus Linn.

- 14 Avdulov, N.P. (Fedorov); Delay, C. 1947; Hubbard, C.E. 1954; Gadella, T.W.J. & Kliphuis, E. 1968b; Fernandes, A. & Queiros, M. 1969; Maugini, E. 1970; Van Loon, J. Chr. & de Jong, H. 1978; Labadie, J.P. 1979

Lamarckia Moench *mut.* Koeler

1; Mediterranean. Punjab and Uttar Pradesh, and Pakistan, also cultivated.

marra (Linn.) Moench

- 14 Avdulov, N.P. (Fedorov); Fernandes, A. & Queiros, M. 1969; Dahlgren, R. *et al.* 1971; Van Loon, J.C. 1974

Lasurus Boiss.

3; tropical East Africa and India. 2; North Western India.

hirsutus (Forst.) Boiss.

- 10 Baquar, S.R. & Saad, M. 1969; Faruqi, S.A. *et al.* 1979
56 Celariar, R.P. 1957a

Elyonurus hirsutus Munro

- 10 Joshi, A.B. *et al.* 1959

Laerzia Soland. ex Swartz

15; tropics and warm temperate. 2;

North Western Eastern and Southern India, and Nepal and Sri Lanka.

hexandra Swartz

- 48 Ramiah, K. 1935; Hirayoshi, I. 1937; Ramanujam, S. 1938; Brown, W.V. 1948; de Wet, J.M.J. & Anderson, L.J. 1956; Chen, C.C. & Hsu, C.C. 1962; Larsen, K. 1963b; Gould, F.W. 1968; Christopher, J. & Abraham, A. 1971; Pohl, R.W. & Davidse, G. 1971; Davidse, G. & Pohl, R.W. 1972a; Olorode, O. 1974b; Shanthamma, C. 1976; Dujardin, M. 1978, 1979b

oryzoides (Linn.) Swartz

- 48 Ramanujam, S. 1938; Brown, W.V. 1948; Tateoka, T. 1953; Hubbard, C.E. 1954
60 Hirayoshi, I. 1937

Leptaspis R. Br.

5; tropical West Africa, Mascarene, Sri Lanka and Fiji. 2; Sri Lanka.

cochleata Thwaites

- 24 Mangenot, S. & Mangenot, G. 1959, 1962; Tateoka, T. 1958b, 1965a; Kamnacher, P. *et al.* 1973; Dujardin, M. 1978, 1979a

Leptochloa P. Beauv.

27; tropics and subtropics. 5; chiefly in Southern India, a few widely distributed in India, and Sri Lanka.

chivensis (Linn.) Nees

- 36 Mehra, P.N. & Kalia, V. 1975
40 Avdulov, N.P. (Fedorov); Chen, C.C. & Hsu, C.C. 1962; Larsen, K. 1963b; Mehra, P.N. *et al.* 1968
54 Christopher, J. & Abraham, A. 1974

neesii (Thwaites) Benth.

- 40 Gould, F.W. & Soderstrom, T.R. 1974

obtusiflora Hochst.

- 70 Janaki Ammat, H.K. (D. 1955)

pascea (Retz.) Ohwi

20 Larson, K. 1963b ; Mehra, P.N. *et al.* 1968

20+1B Sharma, M.L. & Kumar, P. 1980

uniflora Hochst. ex A. Rich.

20 Olorode, O. 1975

36, 40 Gould, F.W. & Soderstrom, T.R. 1974

Lepturus R. Br.

15 ; coasts of East Africa, Madagascar to Australia and Polynesia. 2 ; Sri Lanka.

radicans (Steud.) A. Camus

18 Tateoka, T. 1958a ; Gould, F.W. & Soderstrom, T.R. 1974

repens (Forst.) R. Br.

42 Hsu, C.-C. 1972

54 Tateoka, T. 1958a

Leucopoa Griseb.

2 ; Central Asia to North Western India.
2 ; North Western India.

albida (Turcz.) V. Krecz. & Bobr.*sibirica* Griseb.

28 Avdulov, N.P. (Fedorov)

Lolium Linn.

12 ; temperate Eurasia. 5 ; chiefly in Northern India, and Sri Lanka.

multiflorum Lam.

14 Evans, G. 1926 ; Tischler, G. 1934 ; Heiser, C.B. & Whitaker, T.W. 1948 ; Crowder, L.V. 1953 ; Hubbard, C.E. 1954 ; Tateoka, T. 1954 ; Shibata, K. 1956 ; Hovin, A.W. *et al.* 1963 ; Hovin, A.W. & Hill, H.D. 1966 ; Malik, C.P. & Thomas, P.T. 1966, 1967 ; Mehra, P.N. *et al.* 1968 ; Fernandes, A. & Queiros, M. 1969 ; Mehra, P.N. & Sunder, S. 1969 ; Mehra, P.N. & Remanandan, P. 1973a ; Mehra, P.N. & Sharma, M.L. 1975c

14+4B Delay, J. & Petit, D. 1972

italicum A. Br.

14 Avdulov, N.P. (Fedorov) ; Jenkin, T.J. & Thomas, P.T. 1938 ; Tateoka, T. 1955

multiflorum × *perenne* Linn.

19-22 Ahloowalia, B.S. 1975

perenne Linn.

14 Evans, G. 1926 ; Favoraki, N.V. (Fedorov) ; Kattermann, G. 1930 ; Nakajima, G. 1930 ; Katayama (Kihara, H. *et al.* 1931) ; Peto, F.H. 1933 ; Tischler, G. 1934 ; Rohwedder, H. 1937 ; Jenkin, T.J. & Thomas, P.T. 1938 ; Skovsted, A. 1939 ; Schalygin, I.N. (Fedorov) ; Pólya, I. 1949 ; Crowder, L.V. 1953 ; Hubbard, C.E. 1954 ; Tateoka, T. 1954 ; Shibata, K. 1956 ; Naylor, B. & Rees, H. 1958 ; Essad, S. *et al.* 1966 ; Hovin, A.W. & Hill, H.D. 1966 ; Malik, C.P. & Thomas, P.T. 1966 ; Gould, F.W. 1968, 1970 ; Taylor, R.L. & Muligan, G.A. 1968 ; Fernandes, A. & Queiros, M. 1969 ; Mehra, P.N. & Sunder, S. 1969 ; Mehra, P.N. & Remanandan, P. 1973a ; Mehra, P.N. & Sharma, M.L. 1975c

14+0-3B Teoh, S.B. *et al.* 1976

14-30 Ahloowalia, B.S. 1972

14, 22 Ahloowalia, B.S. 1970

14, 25, 28 Ahloowalia, B.S. 1967

14 (28) Juhl, H. 1953

15,

16, 24-30 Ahloowalia, B.S. 1972

26-30 Ahloowalia, B.S. 1971

28 Myers, W.M. 1939 ; Delay, C. 1947

perenne × *multiflorum*

14+2B Jauhar, P.P. 1975

perenne × *Festuca arundinacea*

50-56 Dijkstra, J. & De Vos, A.L. 1975

perenne × *Festuca pratensis* Huds.

14, 21 Gymer, P.T. & Whittington, W.J. 1975

21, 21+f,

22 Gymer, P.T. & Whittington, W.J. 1973

616 POACEAE

remotum Schrank

- 14 Tischler, G. 1934 ; Jenkin, T.J. & Thomas, P.T. 1938 ; Malik, C.P. & Thomas, P.T. 1966

- 14, 14+1,
2, 4B Hovio, A.W. & Hill, H.D. 1966

var. *remotum*

- 28 Mehra, P.N. & Sunder, S. 1969

rigidum Gaud.

- 14 Jenkin, T.J. & Thomas, P.T. 1938, 1939 ; Tadcoka, T. 1955 ; Bowden, W.M. 1960a ; Hovio, A.W. *et al.* 1963 ; Malik, C.P. & Thomas, P.T. 1966 ; Gould, F.W. 1970 ; Dahlgren, R. *et al.* 1971 ; Delay, J. 1971b ; Van Loon, J.C. 1974 ; Mehra, P.N. & Sharma, M.L. 1975c

- 14,
14+1-2B Hovio, A.W. & Hill, H.D. 1966
14,
14+2B Humphries, C.J. *et al.* 1978

var. *rigidum*

- 14 Fernandes, A. & Queiros, M. 1969

tenuifolium Linn.

- 14 Favorski, N.V. (Fedorov) ; Avdulov, N.P. (Fedorov) ; Tischler, G. 1934 ; Jenkin, T.J. & Thomas, P.T. 1938 ; Heiser, C.B. & Whitaker, T.W. 1948 ; Hubbard, C.E. 1954 ; Shibata, K. 1956 ; Naylor, B. & Rees, H. 1958 ; Hovio, A.W. *et al.* 1963 ; Gould, F.W. 1964, 1968 ; Hovio, A.W. & Hill, H.D. 1966 ; Malik, C.P. & Thomas, P.T. 1966 ; Ubriková & Murfo (Fedorov) ; Mehra, P.N. *et al.* 1968 ; Májovský, J. *et al.* 1970a ; Dahlgren, R. *et al.* 1971 ; Mehra, P.N. & Romanandan, P. 1973a ; Thomas, M.H. 1977

- 2B Delay, C. 1947

var. *arvense* Lilj.

- 14 Mehra, P.N. & Sharma, M.L. 1975c

var. *tenuifolium*

- 14 Fernandes, A. & Queiros, M. 1969
28+2B Mehra, P.N. & Sunder, S. 1969

Lophatherum Brongn.

- 2 ; East Asia, Indo-Malesia and tropical

Australia. 1 ; tropical Himalaya, and Sri Lanka.

gracile Brongn.

- 48 Chen, C.C. & Hsu, C.C. 1962 ; Gould, F.W. & Soderstrom, T.R. 1974

Lophochlea Reichb.

6 ; temperate Eurasia. 4 ; North Western India.

phleoides (Vill.) Reichb.

- 12, 14, 26 Mehra, P.N. & Kohli, B.L. 1966 ; Mehra, P.N. *et al.* 1968
12, 26 Mehra, P.N. & Koonar, J.S. 1964-1965
28 Humphries, C.J. *et al.* 1978

Koeleria phleoides (Vill.) Pers.

- 14 Van Loon, J.C. 1974
26 Avdulov, N.P. (Fedorov) ; Bowden, W.M. & Seno, H.A. 1962 ; Sakamoto, S. & Muramatsu, M. 1963
28 Singh, D.N. & Godward, M.B.B. 1963

pumila Bor

- 14 Mehra, P.N. & Sunder, S. 1969

Lophopogon Hack.

3 ; Western, Eastern and Southern India and Madhya Pradesh.

tridentatus (Roxb.) Hack.

- 8, 10, 18 Narayan, K.N. & Shanthamma, C. 1969 ; Shanthamma, C. & Narayan, K.N. 1976
18 Narayan, K.N. & Shanthamma, C. 1968

Lygeum Loefl. *ex* Linn.

1 ; Mediterranean, Kashmir, perhaps an escape.

spartum Loefl. *ex* Linn.

- 40 Ramanujam, S. 1938 ; Lorenzo-Andreu, A. & Garcia-Sanz, P. 1950 ; Reeder, J.R. & Singh, D.N. 1967
42 Gould, F.W. 1970
46 Amin, A. 1972

Manisuris Linn.

5; Western, Central and Southern India, and Sri Lanka.

acuminata (Hack.) O. Kuntze

var. *acuminata*

20 Shanthamma, C. 1976

clarkii (Hack.) Bor apud Santap.

16 Azam, F. et al. 1969

myuros Linn.

16 Christopher, J. 1978

Melanocenchris Nees

3; North East tropical Africa to India and Sri Lanka. 3; North Western, Western, Eastern and Southern India, and Pakistan and Sri Lanka.

jacquemontii Jaub. & Spach

royleana Nees

24 Swami, U.B.S. 1963

Melica Linn.

70; North and South temperate (except Australia). 9; North Western India and Kumaon.

canescens (Regel) Lavrenko

18 Podlech, D. & Dieterle, A. 1969

hohenackeri Boiss.

18 Chopanov, P. & Yurtsev, V.N. 1973

Jacquemontii Decne

18 Podlech, D. & Dieterle, A. 1969

setosa Linn.

18 Avdulov, N.P. (Fedorov); Kattermann, G. 1930; Tischler, G. 1934; Rohwedder, H. 1937; Doulat, E. 1943; Löve, A. & Löve, D. 1944b; Tateoka, T. 1953; Hubbard, C.E. 1954; Sokolovskaya, A.P. (Fedorov); Sorsa, V. 1962; Laane, M.M. 1969b; Gadella, T.W.J. & Kliphuis, E. 1970b; Skalińska, M. & Pogan, E. 1971; Mehra, P.N. & Sharma, M.L. 1977a

ozoni Franch. & Sav.

18 Tateoka T. 1953, 1954

persica Kunth

18 Chopanov, P. & Yurtsev, V.N. 1973

scaberrima (Nees) Hook. f.

18 Mehra, P.N. & Sharma, M.L. 1972, 1975d; Sharma, M.L. & Kumar, P. 1980

Melinis P. Beauv.

18; 1 tropical South America and West Indies, 17 in tropics, and South Africa and Madagascar. 1; introduced.

minutiflora P. Beauv.

36 Avdulov, N.P. (Fedorov); Hunter, A.W.S. 1934; Tateoka, T. 1965a; Sinha, R.R.P. & Jha, R.P. 1972; Kammacher, P. et al. 1973

40 Muniyamma, M. 1976b

Microchloa R. Br.

3; Africa, 1 pantropical. 2; North Eastern, Central and Southern India, and Nepal.

ladlea (Linn. f.) P. Beauv.

12, c.36 Larsen, K. 1963b

24 Davidse, G. & Pohl, R.W. 1974

48 Kammacher, P. et al. 1973

kunthii Desv.

24 Mehra, P.N. & Kalia, V. 1976

40 Moffett, A.A. & Harcombe, R. 1949; Reeder, J.R. 1967

44 Davidse, G. & Pohl, R.W. 1972b

Microstegium Nees

30; tropical and subtropical Africa and Asia. 6; chiefly in Eastern Himalaya, 1 widely distributed in India, and Nepal and Sri Lanka.

clivatum (Trin.) A. Camus

40 Celarier, R.P. 1956a; Chen, C.C. & Hsu, C.C. 1962; Khosla, P.K. & Mehra, P.N. 1973; Mehra, P.N. & Sharma, M.L. 1975a

- c.60 Roeder, J.R. & Soderstrom, T.R. 1968
 60 Mehra, P.N. & Kalia, V. 1976
 72 Mehra, P.N. & Sood, O.P. 1974b

nodum (Trin.) A. Camus

- 20 Celavier, R.P. 1956a
 20, 42 Mehra, P.N. & Sharma, M.L. 1975a
 36 Khosla, P.K. & Mehra, P.N. 1973
 40 Mehra, P.N. & Sharma, M.L. 1973
 42 Sharma, M.L. & Kumar, P. 1980

petiolare (Trin.) Bor

- 20 Mehra, P.N. & Kalia, V. 1975

ischaemum petiolare Hook.

- 20 Roman, V.S. *et al.* 1959a

vagans (Nees) A. Camus

- 20 Mehra, P.N. & Sharma, M.L. 1975a,
f. 1977a
 60 Mehra, P.N. & Kalia, V. 1976
 60 + 2-4B Mehra, P.N. & Kalia, V. 1975
 80 Mehra, K.L. 1965

vimineum (Trin.) A. Camus

- 40 Ono, H. & Tateoka, T. 1953 ;
 Mehra, P.N. & Kalia, V. 1976

Pollinia imberbis Nees

- 40 Avdulov, N.P. (Fedorov)

Milium Linn.

3-4 ; North temperate. 1 ; Kashmir to
 Kumaon, also cultivated.

affinissimum Linn.

- 14 Sokolovskaya, A.P. & Strelkova,
 O.S. (Fedorov)
 24 Avdulov, N.P. (Fedorov) ; Tischler,
 G. 1934 ; Rohwedder, H. 1937 ; Löve,
 A. & Löve, D. 1944b, 1956b ;
 Sokolovskaya, A.P. & Strelkova, O.S.
 (Fedorov) ; Tateoka, T. 1953 ; Hub-
 bard, C.E. 1954 ; Bowden, W.M.
 1960b ; Sokolovskaya, A.P.
 (Fedorov) ; Sorsa, V. 1962, 1963b ;
 Gandella, T.W.J. & Kliphuis, E.
 1963 ; Mehra, P.N. & Sunder, S.
 1969

Miscanthus Anders.

20 ; tropical and South Africa to Japan

and Philippine Islands. 3 4 ; Eastern
 Himalaya, 1 all along the Himalayan tract,
 and Bhutan.

nepalensis (Trin.) Hack.

- 40 Mehra, P.N. *et al.* 1968 ; Mehra,
 P.N. & Sharma, M.L. 1975a

nudipes (Griseb.) Hack.

- 40 Mehra, P.N. & Sharma, M.L. 1972,
 1975a

Mnesithea Kunth

5 ; Indo-Malesia. 1 ; nearly throughout
 India, and Sri Lanka.

laevis (Retz.) Kunth

- 14 Rao, T.N.V.R. 1962
 18 Larsen, K. 1963b ; Singh, D.N. 1964 ;
 Murty, U.R. & Satyavathi, D. 1971 ;
 Mehra, P.N. & Sharma, M.L. 1972,
 1975a ; Gould, F.W. & Soderstrom,
 T.R. 1974 ; Sarkar, A.K. *et al.* 1976 ;
 Christopher, J. 1978 ; Faruqi, S.A. *et*
al. 1979

Muhlenbergia Schreb.

100 ; Himalaya to Japan and North
 America to Andes. 4 ; Himalaya. 1 escape
 from cultivation.

himalayensis Hack. *ex* Hook. *f.*

- 40 Mehra, P.N. & Sharma, M.L. 1972,
 1975c

hoegellii Trin.

- 40 Chen, C.C. & Hsu, C.C. 1962 ;
 Mehra, P.N. & Sharma, M.L. 1975c
 42 Ono, H. & Tateoka, T. 1953

mexicana (Linn.) Trin.

- 40 Avdulov, N.P. (Fedorov) ; Delay, C.
 1947 ; Pohl, R.W. & Mitchell, W.W.
 1965 ; Pohl, R.W. 1969

Nardurus Reichb. *ex* Godron

6 ; West Europe to India. 1 ; North
 Western India.

maritima (Linn.) Murbeck

- 14 Brown-Packer (Löve, A. & Löve, D. 1961b)

Festuca maritima Linn.

- 14 Avdulov, N.P. (Fedorov)
70 Wulff, H.D. 1937a

Narenga Bor

2; North East India to Borneo. 2; Eastern Himalaya and hilly areas of India.

fallax (Balansa) Bor

- 18 Mehra, P.N. & Kalia, V. 1974

porphyrocoma (Hance) Bor

- 30 Li, H.W. 1958; Price, S. 1959; Jagathesan, D. & Sreenivasan, T.V. 1966, 1967

Saccharum narenga Wall.

- 30 Bremer, G. 1925

Neyraudia Hook. f.

2; tropical Africa, Madagascar, China and Indo-Malesia. 2; North Western and Eastern India and Bangla Desh.

reynaudiana (Kunth) Keng

- 40 Larsen, K. 1963b; Mehra, P.N. & Kalia, V. 1976

Ochlandra Thwaites

12; Madagascar, India and Sri Lanka. 9; Southern India, a few in Western India, and Sri Lanka.

scriptoria (Dennis) Fischer

- c.72 Janaki Ammal, E.K. (D. 1945)

transucola (Bedd.) Benth. ex Gamble

- c.72 Janaki Ammal, E.K. (D. 1945)

Opluros Gaertn. f.

7; 1 North East tropical Africa, 6 in Indo-Malesia and Australia. 3; Eastern Himalaya, Western and Southern India, 1 widely distributed in India.

megaphyllus Stapf ex Haines

- 14 Murty, U.R. & Satyavathi, D. 1971

Oplismenus P. Beauv.

15; tropics and subtropics. 3; throughout India, 1 North Western Himalaya, and Bangla Desh and Sri Lanka.

burmanni (Retz.) P. Beauv.

- 18 Sharma, A.K. & Jhori, L. 1959; Larsen, K. 1963b; Mitra, K. & Datta, N. 1967; Narayan, K.N. & Muniyamma, M. 1969, 1972; Saxena, B.K. & Gupta, B.K. 1970; Dujardin, M. 1979a
20, 40 Bir, S.S., Gill, B.S., Singhal, V.K. & Bedi, Y.S. 1979
36 Pohl, R.W. & Davidse, G. 1971; Reeder, J.R. 1971; Mehra, P.N. & Sharma, M.L. 1973, 1975b
44 Mehra, P.N. & Chaudhary, J.D. 1975
54 Khosla, P.K. & Mehra, P.N. 1973
72 Hunter, A.W.S. 1934; Khosla, P.K. 1972; Kammacher, F. *et al.* 1973; Christopher, J. & Abraham, A. 1976

compositus (Linn.) P. Beauv.

- 18 Mehra, P.N. & Chaudhary, J.D. 1974
40 Azam, F. *et al.* 1969; Sharma, M.L. & Kumar, P. 1980
54 Larsen, K. 1963b; Khosla, P.K. 1972; Khosla, P.K. & Mehra, P.N. 1973; Mehra, P.N. & Sharma, M.L. 1973
54
54+6-13B Mehra, P.N. & Sharma, M.L. 1975b
72 Avdulov, N.P. (Fedorov); Tateoka, T. 1955, 1956b; Chen, C. & Hsu, C. 1961; Hsu, C.-C. 1967; Gupta, P.K. 1971; Narayan, K.N. & Muniyamma, M. 1972; Gould, F.W. & Soderstrom, T.R. 1974; Christopher, J. & Abraham, A. 1976

compositus × *burmanni*

- 54 Mehra, P.N. & Sharma, M.L. 1977

undulatifolius (Ard.) P. Beauv.

- 54 Avdulov, N.P. (Fedorov); Tateoka, T. 1954; Mehra, P.N. *et al.* 1963; Khosla, P.K. 1972; Khosla, P.K. &

Mehra, P.N. 1973 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Mehra, P.N. & Sharma, M.L. 1975b

var. undulatifolius

54 Tateoka, T. 1967

Oropetium Trin.

5 ; North and tropical Africa to South East Asia. 2 ; drier parts of India, and Sri Lanka.

thomaeum (Linn. f.) Trin.

- 10 Swami, U.B.S. 1963
18 Gould, F.W. & Soderstrom, T.R. 1974
20 Malik, C.P. & Mary, T.N. 1970b ; Christopher, J. & Abraham, A. 1974

Oryza Linn.

25 ; tropics. 15 ; Southern and Eastern India, and Pakistan, Bangla Desh and Sri Lanka, some introduced, 1 cultivated.

australiensis Domin

- 24 Sampath, S. & Ramanathan, K. 1949 ; Sampath, S. & Rao, N. 1951 ; Nezu, M. 1958 ; Morishima, H. & Oka, N. 1960 ; Korah, M. 1961 ; Bouharmont, J. 1962a ; Gopalakrishnan, R. & Shastri, S.V.S. 1966 ; Mehra, P.N. *et al.* 1968

brachyantha A. Chev. & Roehr.

- 24 Krishnaswamy, N. *et al.* 1954 ; Morinaga, T. & Kuriyama, H. 1954 ; Morishima, H. & Oka, N. 1960 ; Bouharmont, J. 1962b

breviligulata A. Chev. & Roehr.

- 24 Sampath, S. & Rao, N. 1951 ; Krishnaswamy, N. *et al.* 1954 ; Morinaga, T. & Kuriyama, H. 1954 ; Morishima, H. & Oka, N. 1960 ; Bouharmont, J. 1962a

constrictata Roxb.

- 48 Parthasarathy, N. 1938 ; Sampath, S. & Rao, N. 1951 ; Krishnaswamy, N. & Chandrasekharan, P. 1957 ; Bouharmont, J. 1962a

eichingeri Peter

- 24 Tateoka, T. 1965b ; Ranganadha-charyulu, N. & Raj, A.Y. 1974
24, 48 Hu, C.H. 1970
48 Pathak, G.N. 1940a ; Sampath, S. & Rao, N. 1951 ; Krishnaswamy, N. & Chandrasekharan, P. 1957 ; Morishima, H. & Oka, N. 1960 ; Korah, M. 1961 ; Bouharmont, J. 1962a

glaberrima Steud.

- 24 Ramanujam, S. 1938 ; Sampath, S. & Rao, N. 1951 ; Morinaga, T. & Kuriyama, H. 1954 ; Govindaswamy, S. & Krishnamurthy, A. 1958 ; Morishima, H. & Oka, N. 1960 ; Korah, M. 1961 ; Bouharmont, J. 1962a, b ; Oka, H.-S. 1968

grandiglumis Prod.

- 24 Sampath, S. & Rao, N. 1951
48 Nezu, (Kihara, H. 1959b) ; Mitsukuri, Y. 1966

granulata Nees & Arn. *ex* Steud.

- 24 Krishnaswamy, N. *et al.* 1954 ; Hu, C.-H. 1960 ; Morishima, H. & Oka, N. 1960 ; Christopher, J. & Abraham, A. 1971 ; Gould, F.W. & Soderstrom, T.R. 1974
24, 48 Bouharmont, J. 1962a, b
48 Abraham (Sampath, S. & Rao, N. 1951)

jayporensis Govindaswami & Krishnamurthy

- 48 Govindaswami, S. & Krishnamurthy, A. 1958

latifolia Desv.

- 24 Heyn, A.N.J. 1936
48 Gotoh, K. & Okura, E. 1933 ; Ramiah, K. 1935 ; Sampath, S. & Rao, N. 1951 ; Krishnaswamy, N. & Chandrasekharan, P. 1957 ; Mitsukuri, Y. *et al.* 1958 ; Morishima, H. & Oka, N. 1960 ; Bouharmont, J. 1962b ; Shastri, S.V.S. & Issar, S.C. 1965 ; Gopalakrishnan, R. & Shastri, S.V.S. 1966 ; Gould, F.W. & Soderstrom, T.R. 1970 ; Pohl, R.W. & Davideo, G. 1971

malampuzhaensis Krishnaswamy & Chandrasekharan

- 48 Krishnaswamy, N. & Chandrasekharan, P. 1957

minota J.S. Presl ex C.B. Presl

- 48 Ramiah, K. 1935; Nandi, H.K. 1936; Ramanujam, S. 1938; Sampath, S. & Rao, N. 1951; Krishnaswamy, N. & Chandrasekharan, P. 1957; Mitsukuri, Y. *et al.* 1958; Morishima, H. & Oka, N. 1960; Korah, M. 1961; Bouharmont, J. 1962a; Tateoka, T. & Pancho, J.V. 1963; Shastri, S.V.S. & Issar, S.C. 1965; Tateoka, T. 1965b

officinalis Wall.

- 24 Nandi, H.K. 1936, 1937; Ramanujam, S. 1937, 1938; Sampath, S. & Rao, N. 1951; Mitsukuri, Y. *et al.* 1958; Morishima, H. & Oka, N. 1960; Korah, M. 1961; Bouharmont, J. 1962b; Tateoka, T. & Pancho, J.V. 1963
48 Hu, C.-C. 1967

officinalis × **Ceylonese officinalis**

- 24 Ogawa, T. & Katayama, T. 1973

officinalis × (**Ceylonese officinalis** × **sichingeri**)

- 24 Ogawa, T. & Katayama, T. 1973

nivara Sharma & Shastri

- 24 Dolores, R.C. *et al.* 1979

reflogon Griff.

- 24 Gould, F.W. & Soderstrom, T.R. 1974

fatua Koeh.

- 24 Bouharmont, J. 1962b

setiva Linn.

- 22-24, 24 Razzaque, C.A. 1973
23-26, 38 Katayama, T. 1964
24 Kuwada, Y. 1910; Rau, N.S. 1929b; Selim, A.G. 1930; Morinaga, T. & Fukushima, E. 1931b; Ramiah, K. 1935; Sakai, K. 1935b, 1939; Heyn, A.N.J. 1936; Nandi, H.K. 1936, 1937; Hirayoshi, I. 1937; Ramanujam, S. 1937, 1938; Sethi, B.L. 1937; Parthasarathy, N. 1938; Delay, C. 1947; Sampath, S. & Rao,

N. 1951; Morinaga, T. & Kuriyama, H. 1954; Hu, C.H. 1957; Mitsukuri, Y. *et al.* 1958; Yao, S.Y. *et al.* 1958; Morishima, H. & Oka, N. 1960; Shastri, S.V.S. *et al.* 1960; Korah, M. 1961; Bouharmont, J. 1962a, b; Sen, S.K. 1963; Duarte, L.S.N. 1966; Basak, S.L. & Dana, S. 1967; Mehra, P.N. *et al.* 1968; Oka, H.-S. 1968; Nishi, T. & Mitsuoka, S. 1969; Iwata, N. 1970; Gould, F.W. & Soderstrom, T.R. 1974; Mukherjee, P. *et al.* 1976; Dolores, R.C. *et al.* 1979; Mukherjee, P. & Mukherji, D.K. 1979

- 24, 48 Ghosh, M. 1967; Reddi, V.R. & Reddi, T.V.V.S. 1977
26 Reddi, T.V.V.S. *et al.* 1978
33-99 Watanabe, Y. 1974
36 Sen, P. & Misra, R.N. 1975
48 Sambamurthy, A.V.S.S. 1974

4x × 2x

- 36 Koga, Y. & Nagamatsu, T. 1967a, b

var. **plena** Prain

- 22, 24, 26 Mukherjee, P. *et al.* 1975

cv. **A.D.I. 31**

- 24 Krishnamurthy, I.V. 1978

cv. **Annapurna**

- 24 Krishnamurthy, I.V. 1978

cv. **I.R. 8**

- 24 Krishnamurthy, I.V. 1978

cv. **Penni**

- 24 Krishnamurthy, I.V. 1978

setiva × **australensis**

- 24, 48 Watanabe, Y. & Wakasa, K. 1973

setiva 2n=24 × **sichingeri** 2n=48

- 36 Sampat, S. 1950

setiva × **nivara**

- 24 Dolores, R.C. *et al.* 1979

Oryzopsis Michx.

50; North temperate and subtropics. 11; chiefly in North Western India, 1 introduced.

sequiguanis Duthie

- 24 Mehra, P.N. & Sharma, M.L. 1975d

hymenoides (Roem. & Schult.) Ricker

- 48 Stobbs, G.L. & Love, R.M. 1941 ;
Johnson, B.L. & Rogler, G.A. 1943 ;
Johnson, B.L. 1945, 1962

lateralis (Regel) Stapf

- 24 Mehra, P.N. & Sharma, M.L. 1973f,
1977

microcarpa Pilger

- 24 Podlech, D. & Dieterle, A. 1969

munrei Stapf

- 22 Mehra, P.N. & Sunder, S. 1969
24 Sharma, M.L. & Sharma, K. 1978,
1979

sp.

- 24 Mehra, P.N. & Sunder, S. 1969

Ottachloa Dandy

6 ; Indo-Malesia and Queensland. 1 ;
North Eastern and Southern India.

nodosa (Kunth) Dandy

- 18 Gould, P.W. & Soderstrom, T.R.
1974 ; Christopher, J. & Abraham,
A. 1976 ; Mehra, P.N. & Chaudhary,
J.D. 1976
18, c.63 Larsen, K. 1963b
36 Dujardin, M. 1978, 1979b

Panicum Linn.

About 500 ; tropics and warm tem-
perate. 30 ; chiefly in Western and Southern
India, and Nepal, Pakistan, Bhutan, Bangla
Deah and Sri Lanka, some introduced, a
few cultivated.

antidotale Retz.

- 18 Burton, G.W. 1942 ; Brown, W.V.
1951 ; Mulay, B.N. & Jagdisan, D.
1956 ; Jauhar, P.P. & Joshi, A.B.
1966b ; Gould, F.W. 1968 ; Mehra,
P.N. *et al.* 1968 ; Ismail, F.-A.
1971 ; Davidse, G. & Pohl, R.W.
1972a ; Sinha, R.R.P. & Jha, R.P.
1972 ; Sharma, M.L. & Sharma, K.
1979
18, 36 Narayan, K.N. 1962

auritum Presl

- 60 Mehra, P.N. & Chaudhary, J.D.
1974 ; Christopher, J. & Abraham, A.
1976
72 Mehra, P.N. & Chaudhary, J.D.
1976

austroromaticum Ohwi

- 18 Larsen, K. 1963a
72 Mehra, P.N. & Chaudhary, J.D.
1975

bisulcatum Thunb.

- 36 Chen, C. & Hsu, C. 1961
54 Tateoka, T. 1953, 1954

aeranthum Steud.

- 36 Avdulov, N.P. (Fedorov)

brevifolium Linn.

- 36 Chen, C. & Hsu, C. 1961 ; Tateoka, T.
1965c ; Kammacher, P. *et al.* 1973 ;
Gould, F.W. & Soderstrom, T.R.
1974 ; Olorode, O. 1974b ; Christo-
pher, J. & Abraham, A. 1976 ;
Mehra, P.N. & Chaudhary, J.D.
1976 ; Dujardin, M. 1978, 1979b

cambogense Bal.

- 18 Mehra, P.N. & Chaudhary, J.D.
1976

coloratum Linn.

- 18, 32, 36 Joshi, A.B. *et al.* 1959
18, 36,
36+B Hutchison, D.J. & Bashaw, E.C.
1964
36, 44 de Wei, J.M.J. 1960a ; Nuñez, O.
1952
36,
36+i-3B Swaminathan, M.S. & Nath, J.
1956a
34 Patil, B.D. *et al.* 1961

gardneri Thwaites

- 98, 108 Gould, F.W. & Soderstrom, T.R.
1974
112 Muniyamma, M. & Narayan, N.K.
1975

hamidiana Buch.-Ham.

- 18 Khosla, P.K. & Mehra, P.N. 1973
36 Mehra, P.N. & Chaudhary, J.D.
1974

incomutum Trin.

- 36 Chen, C. & Hsu, C. 1961; Mehra, P.N. & Chaudhary, J.D. 1976

khasianum Munro ex Hook. f.

- 36 Mehra, P.N. & Sharma, M.L. 1972, 1975b

laevifolium Hack.

- 18 Nath, J. & Swaminathan, M.S. 1957; Nath, J. *et al.* 1970
40 Khosla, P.K. & Mehra, P.N. 1973
48 Hutchison, D.J. & Bashaw, E.C. 1964

maximum Jacq.

- 16, 32, 38,
40, 48 Combes, D. & Pernes, J. 1970
16, 32, 48,
64 Savidan, Y. 1980
18 de Wet, J.M.J. 1954b
18, 32 Jauhar, P.P. 1969; Nath, J. *et al.* 1970
18, 36 Mehra, P.N. & Kohli, B.L. 1966; Mehra, P.N. *et al.* 1968; Gould, F.W. & Soderstrom, T.R. 1974
28 Olorode, O. 1974b
32 Moffett, A.A. & Hurcombe, R. 1949; Nuñez, O. 1952; Chandola, R.P. 1959; Tateoka, T. 1965a; Reeder, J. R. 1968; Jauhar, P.P. & Joshi, A.B. 1969; Gould, F.W. & Soderstrom, T.R. 1970; Sanchez, M.A. *et al.* 1970; Hanna, W.W. *et al.* 1973; Kammacher, P. *et al.* 1973; Christopher, J. & Abraham, A. 1976; Dujardin, M. 1979a, b
32, 36 Sinha, R.R.P. & Jha, R.P. 1972
32, 48 Warmke, H.E. 1951
36 Janaki Ammal, E.K. (D. 1945); Raman, V.S. *et al.* 1959a; Gould, F.W. & Soderstrom, T.R. 1967; Pohl, R.W. & Davidson, G. 1971; Davidson, G. & Pohl, R.W. 1974
42 Khosla, P.K. & Mehra, P.N. 1973

minacum Linn.

- 36 Avdulov, N.P. (Fedorov); Rau, N.S. 1929a; Chandola, R.P. 1959; Singh, D.N. & Godward, M.B.E. 1960, 1963; Mehra, P.N. *et al.* 1968; Srid, A. 1980
36, 40 Church, G.L. 1929b
36, 54, 72 Krishnaaswamy, N. 1951

- 36(72) Arenkova, D.N. (Fedorov)
49 Fairbrothers, D.E. 1954

mitare Lam.

- 14 Khosla, P.K. & Mehra, P.N. 1973
36 Rau, N.S. 1929a; Christopher, J. & Abraham, A. 1976; Bir, S.S., Gill, B.S., Singh¹, V.K. & Bedi, Y.S. 1979

ochracea Jauhar & Joshi

- 54 Jauhar, P.P. & Joshi, A.B. 1966a
54+0-24B Jauhar, P.P. & Joshi, A.B. 1968

ochrum Retz.

- 18 Hsu, C.-C. 1972
36 Chen (Hsu, C. 1964)
36, 82-84 Larsen, K. 1963a
72 Gould, F.W. & Soderstrom, T.R. 1974

montanum Roxb.

- 36, 72 Mehra, P.N. & Chaudhary, J.D. 1974
70 Christopher, J. & Abraham, A. 1976

paludum Roxb.

- 36, 54 Gould, F.W. & Soderstrom, T.R. 1974
54 Larsen, K. 1963a; Narayan, K.N. & Muniyamma, M. 1969; Muniyamma, M. & Narayan, K.N. 1972; Christopher, J. & Abraham, A. 1976; Mehra, P.N. & Chaudhary, J.D. 1976

pallopedium Trin.

- 36 Gupta, P.K. 1963b, 1969a, 1971; Gupta, P.K. & Yashvir 1971; Christopher, J. & Abraham, A. 1976
40 Gould, F.W. & Soderstrom, T.R. 1974
54 Ramnathan, K. 1950; Mehra, P.N. *et al.* 1968

var. ciliatum Hook. f.

- 36 Mehra, P.N. & Sharma, M.L. 1975b

repens Linn.

- 20 Sarker, A.K., Datta, R. *et al.* 1975; Sarker, A.K. *et al.* 1976
36 de Wet, J.M.J. & Anderson, L.J. 1956; Jauhar, P.P. & Joshi, A.B. 1966b; Sinha, R.R.P. & Jha, R.P.

- 1972; Gould, F.W. & Soderstrom, T.R. 1974; Dujardin, M. 1979a
 40 Krishnaswamy, N. 1941; Mehra, P.N. *et al.* 1968
 45 Tateoka, T. 1955, 1956b; Larsen, K. 1963a; Christopher, J. & Abraham, A. 1976
 54 Gould, F.W. 1960; Fernandes, A. & Queiros, M. 1969

sparsicomus Nees

- 18 Mehra, P.N. & Chaudhary, J.D. 1976
 36 Gould, F.W. & Soderstrom, T.R. 1974

trypheron Schult.

- 18, 36 Gould, F.W. & Soderstrom, T.R. 1974
 36 Larsen, K. 1963a; Mehra, P.N. *et al.* 1968; Khosla, P.K. & Mehra, P.N. 1973; Christopher, J. & Abraham, A. 1976; Mehra, P.N. & Chaudhary, J.D. 1976
 40 Bir, S.S., Gill, B.S. & Kanta, S. 1980

virgatum Linn.

- 18, 36, 54, 72, 90, 108 Nielsen, E.L. 1944
 21, 25, 30, 32, 36 Brown, W.V. 1948
 36 Gould, F.W. 1968; Mehra, P.N. *et al.* 1968
 36, 54, 72 McMillan, C. & Weller, J. 1959
 36, 72 Church, G.L. 1940
 55-65 Singh, D.N. & Godward, M.B.B. 1960
 70 Krishnaswamy, N. 1941
 72 Burtoo, G.W. 1942; Moora, R.J. *et al.* 1976

Parapholis C.E. Hubb.

4; Western Europe, Mediterranean to Central Asia and North Western India. 1; North Western India.

lacerna (Linn.) C.E. Hubb.

- 36 Hubbard, C.E. 1954; Gould, F.W. 1970
 38 Rucemark, H. 1962; Fernandes, A. & Queiros, M. 1969
 42 Gould, F.W. 1958

Lepturus incurvatus Trin.

- 36 Avdulov, N.P. (Fedorov); Tischler, G. 1934

Phollurus incurvus (Linn.) Schinz & Thell.

- 36 Parodi, L.R. 1946

Paspalidium Stapf

20; warm regions, especially Old World. 3; throughout India.

flavidum (Retz.) A. Camus

- 18 Patil, R.P. & Ghosh, K. 1962; Narayan, K.N. & Shanthamma, C. 1968; Malik, C.P. & Tripathi, R.C. 1970; Shanthamma, C. & Narayan, K.N. 1976-1977
 18, 54 Mehra, P.N. & Kohli, B.L. 1966; Mehra, P.N. *et al.* 1968
 36 Christopher, J. & Abraham, A. 1976
 44 Ismail, F.-A. 1971; Sharma, M.L. & Sharma, K. 1978
 c.44 Sharma, M.L. & Sharma, K. 1979
 54 Ramon, V.S. *et al.* 1959b; Gupta, P.K. 1963b, 1969a, 1971; Larsen, K. 1963b; Mitra, K. & Datta, N. 1967; Saxena, B.K. & Gupta, B.K. 1970; Gould, F.W. & Soderstrom, T.R. 1974; Chatterji, A.K. 1975; Mehra, P.N. & Sharma, M.L. 1975b; Shanthamma, C. *et al.* 1976
 56 Sharma, A.K. & Jhuri, L. 1959

geminatum (Forsk.) Stapf

- 18 Ramon, V.S. *et al.* 1959b; Tateoka, T. 1965a; Sindhe, A.N.R. 1967; Malik, C.P. & Tripathi, R.C. 1970; Gould, F.W. & Soderstrom, T.R. 1974; Sindhe, A.N.R. *et al.* 1975
 36 Gould, F.W. 1968

Panicum geminatum Forsk.

- 36 Gould, F.W. 1958
 40 Brown, W.V. 1951
 54 Pohl, R.W. & Davidse, G. 1971

punctatum (Burm.) A. Camus

- 36 Murty, U.R.K. 1965; Roy, R.P. & Azam, F. 1967; Gould, F.W. & Soderstrom, T.R. 1974
 54 Christopher, J. & Abraham, A. 1976

sp.

45 Roy, R.P. & Azam, F. 1967

Paspalum Linn.

About 250 ; warmer parts of the world,
1 cultivated. 14 ; many occur throughout
India, and Sri Lanka a few introduced.

comersonii Lam.

- 20 Tateoka, T. 1965a
40 Moffett, A.A. & Hurcombe, R. 1949 ;
de Wet, J.M.J. & Anderson, L.J.
1956 ; Singh, D.N. & Godward,
M.B.E. 1960 ; Larsen, K. 1963b ;
Malik, C.P. & Tripathi, R.C. 1970 ;
Pritchard, A.J. 1970 ; Khosla, P.K. &
Mehra, P.N. 1973 ; Dandin, S.B. &
Chennaveeraiah, M.S. 1977
40, 60 Christopher, J. & Abraham, A. 1976
40, c.40,
c.90 Gould, F.W. & Soderstrom, T.R.
1974
60 Christopher, J. 1971
60, 120 Chao, C.-Y. 1974 ; Pi, P.-H. & Chao,
C.-Y. 1974
120 Mehra, P.N. & Sharma, M.L. 1973,
1975b

compactum Roth

18 Mehra, P.N. & Chaudhary, J.D. 1974

cojugatum Berg.

- 20 Hsu, C.-C. 1967
40 Janaki Ammal, E.K. (D. 1945) ;
Larsen, K. 1963b ; Tateoka, T.
1965a ; Fang, J.S. & Li, H.W. 1966 ;
Malik, C.P. & Tripathi, R.C. 1970 ;
Christopher, J. 1971 ; Pohl, R.W. &
Davidse, G. 1971 ; Olorode, O.
1974b ; Christopher, J. & Abraham,
A. 1976 ; Sarkar, A.K. *et al.* 1976 ;
Dandin, S.B. & Chennaveeraiah, M.S.
1977 ; Dujardin, M. 1978
60 Mehra, P.N. & Sharma, M.L. 1973 ;
Gould, F.W. & Soderstrom, T.R.
1974 ; Mehra, P.N. & Sharma, M.L.
1975b ; Muniyama, M. & Narayan,
K.N. 1975

convexum Humb. & Bonpl.

- 20, 40 Pohl, R.W. & Davidse, G. 1971
32 Selva, S.B. 1976
40 Davidse, G. & Pohl, R.W. 1974
40, 60 Gould, F.W. 1966
60 Reeder, J.R. 1967

dilatatum Poir.

- 40 Burton, G.W. 1940 ; Delay, C. 1947 ;
Brown, W.V. 1948, 1950 ; Saura, F.
1948 ; de Wet, J.M.J. & Anderson,
L.J. 1956 ; Mehra, P.N. *et al.* 1968
40, 50 Bashaw, E.C. & Forbes, I. 1958 ;
Fernandes, M.I. *et al.* 1968
40, 50, 60 Fernandes, M.I. *et al.* 1974
40, c.60 Gould, F.W. & Soderstrom, T.R.
1974
50 Krishnaswamy, N. 1941 ; Tateoka,
T. 1954 ; Hayman, D.L. 1956 ;
Narayan, K.N. & Sindhe, A.N.R.
1968 ; Fernandes, A. & Queiros, M.
1969 ; Pohl, R.W. & Davidse, G.
1971 ; Mehra, P.N. & Sharma, M.L.
1975b ; Sindhe, A.N.R. 1977
50, 60 Dandin, S.B. & Chennaveeraiah,
M.S. 1977
50-63 Singh, D.N. & Godward, M.B.E.
1960
54 Mehra, P.N. & Chaudhary, J.D.
1976
60 Mehra, P.N. & Chaudhary, J.D.
1975 ; Christopher, J. & Abraham,
A. 1976
hybrid 45 Buraon, B.L. & Bennett, H.W. 1972

distichum Linn.*

- 20 Gould, F.W. & Soderstrom, T.R.
1974
40 Brown, W.V. 1948 ; Bowden, W.M.
& Senn, H.A. 1962 ; Gould, F.W.
1966 ; Reeder, J.R. 1968 ; Hsu, C.-C.
1972 ; Fernandes, M.I. *et al.* 1974 ;
Chatterji, A.K. 1975
40, 60 Katayama, T. & Ikeda, H. 1975
48 Burton, G.W. 1942
48, 60 Heiser, C.B. & Whitaker, T.W. 1948
60 Nuñez, O. 1952 ; de Wet, J.M.J.
1958a ; Mehra, P.N. *et al.* 1968.
Fernandes, A. & Queiros, M. 1969 ;

* *Paspalum distichum* auct. pl. non Linn. (GBCIP : 338) is a synonym of *Paspalum paspaloides* (Michx.) Scribn. (HFDD : 632).

Pohl, R.W. & Davidse, G. 1971 ;
Davidse, G. & Pohl, R.W. 1972a, b ;
Mehra, P.N. & Sharma, M.L.
1975b, f ; Dandin, S.B. & Chennave-
raiah, M.S. 1977 ; Sharma, M.L. &
Sharma, K. 1979 ; Sarker, A.K.,
Chakraverty, M. *et al.* 1980

longifolium Roxb.

- 40 Janaki Ammal, E.K. (D. 1945) ;
Larsen, K. 1963b
40, 80 Chao, C.-Y. 1974 ; Pi, P.-H. & Chao,
C.-Y. 1974
50 Malik, C.P. & Mary, T.N. 1970b

var. longifolium

- 40, 50, 60 Malik, C.P. & Tripathi, R.C. 1972

notatum Fluegge

- 20 Burson, B.L. & Bennett, H.W. 1972
20, 40 Saura, F. 1948 ; Pritchard, A.J. &
Gould, K.F. 1964
30 Gould, F.W. 1966
40 Burton, G.W. 1940 ; Mehra, P.N.
et al. 1968 ; Powell, J.B. 1968 ; De
Morais, F. *et al.* 1973 ; Fernandes,
M.I. *et al.* 1974

notatum × **dilatatum**

- 30 Burson, B.L. & Bennett, H.W. 1972

orbiculare Forst.

- 20 Dujardin, M. 1979a
40 Chen (Hsu, C. 1964) ; Kammacher,
F. *et al.* 1973 ; Khosla, P.K. &
Mehra, P.N. 1973 ; Olorode, O.
1974b
54 Nath, J. & Swaminathan, M.S. 1957 ;
Nath, J. *et al.* 1970

peppaloides (Michx.) Scribn.

- 43-60, 60 Gupta, P.K. & Srivastava, A.K. 1972
60 Malik, C.P. & Mary, T.N. 1970b ;
Mehra, P.N. & Ramanandan, P.
1973b

plentatum Michx.

- 20 Brown, W.V. 1950 ; Reeder, J.R.
1967
20, 40 Davidse, G. & Pohl, R.W. 1972a ;
Fernandes, M.I. *et al.* 1974
40 Saura, F. 1941 ; Nuñez, O. 1951 ;
Gould, F.W. 1968 ; Gould, F.W.
& Soderstrom, T.R. 1970 ; Nath, J.
et al. 1970 ; Pritchard, A.J. 1970 ;

Ismail, F.-A. 1971 ; Pohl, R.W. &
Davidse, G. 1971 ; Davidse, G. &
Pohl, R.W. 1972b, 1974

- 40, 60 Pritchard, A.J. & Gould, K.F. 1964

punctatum Fluegge

- 16 Sarker, A.K., Chakraverty, M. *et al.*
1978

scrobiculatum Linn.

- 40 Avdulov, N.P. (Fedorov) ; Krishna-
swamy, N. 1951 ; Gupta, P.K. 1963b,
1969a, 1971 ; Larsen, K. 1963 b ;
Mehra, P.N. *et al.* 1968 ; Sindhe,
A.N.R. 1969 ; Saxena, B.K. & Gupta,
B.K. 1970 ; Gould, F.W. & Soder-
strom, T.R. 1974 ; Hiremath, S.C.
& Dandin, S.B. 1975 ; Christopher,
J. & Abraham, A. 1976
56 Ismail, F.-A. 1971
80 Mehra, P.N. & Sharma, M.L. 1973,
1975b

uvilliei Steud.

- 40 Burton, G.W. 1940 ; Brown, W.V.
1950 ; Fernandes, A. & Queiroz, M.
1969 ; Khosla, P.K. & Mehra, P.N.
1973 ; Fernandes, M.I. *et al.* 1974
40, 60 Nielsen, E.L. 1939

vaginatum Swartz

- 20 Brown, W.V. 1948 ; Tateoka, T. 1962a,
1965a ; Fernandes, A. & Queiroz, M.
1969 ; Nath, J. *et al.* 1970
40 Sindhe, A.N.R. 1977
60 Sindhe, A.N.R. 1969 ; Sindhe, A.N.R.
et al. 1975

Digitaria foliosa Lag.

- 16 Young, E.M. & Crocker, C.C. 1933

Pennisetum Rich.

About 130 ; warmer parts of the world.
15, chiefly in Himalaya, North Western
and Western India, and Pakistan and Sri
Lanka - a few introduced, 1 cultivated.

alepuroides (Linn.) Spreng.

- 18 Ono, H. & Tateoka, T. 1933 ;
Tateoka, T. 1954 ; Chen, C. & Hsu,
C. 1961 ; Tateoka, T. 1967
36 Azam, F. *et al.* 1969

compressum R. Br.

- 14 Krishnaswamy, N. 1941

clandestinum Hochst. ex Chiov.

- 36 Hunter, A.W.S. 1934 ; Hrish, N.J. 1952 ; Nuñez, O. 1952 ; Narayan, K.N. 1955 ; Hedberg, O. 1957 ; Tateoka, T. 1965a
54 Khosla, P.K. & Mehra, P.N. 1973

divisum (Forsk.) Henr.

- 28, 54 Khosla, P.K. & Mehra, P.N. 1973

elatum Hochst.

- 27 Borgen, L. 1969

flaccidum Griseb.

- 18 Mehra, P.N. *et al.* 1968 ; Mehra, P.N. & Sunder, S. 1969 ; Khosla, P.K. & Mehra, P.N. 1973
18, 45 Mehra, P.N. & Remanandan, P. 1973b
36 Baquar, S.R. & Abid Askari, S.H. 1970a, b ; Mehra, P.N. & Sharma, M.L. 1977
36, 54 Sharma, M.L. & Kumar, P. 1980

hohenackeri Hochst. ex Steud.

- 18 Hrish, N.J. 1952 ; Rangasamy, S.R.S. 1972 ; Christopher, J. & Abraham, A. 1976 ; Shanthamma, C. 1976
36 Kurup, S. 1972-1973

hercoides (Lam.) Steud.

- 18 Khosla, P.K. & Mehra, P.N. 1973
36 Kammacher, P. *et al.* 1973
54 Mitra, K. & Datta, N. 1967

inatum Klotz.

- 18 Mehra, P.N. & Remanandan, P. 1973b

mezianum Leek

- 32 Narayan, K.N. & Shanthamma, C. 1968 ; Shanthamma, C. & Narayan, K.N. 1976-1977 ; Shanthamma, C. *et al.* 1976

masaicum Stapf

- 32 Swaminathan, M.S. & Nath, J. 1956b ; Rangasamy, S.R.S. 1972

orientale Rich.

- 18 Patil, B.D. & Singh, A. 1964 ; Khosla, P.K. & Mehra, P.N. 1973
18,
22, 34, 36 Patil, B.D. *et al.* 1962
18, 36 Sisodia, K.P.S. 1972
18, 45 Mehra, P.N. & Sharma, M.L. 1975b
18+0-3B Jauhar, P.P. & Singh, U. 1970
27 Narayan, K.N. 1962
35 Sharma, A.K. & De, D.N. 1956b
36 Avdulov, N.P. (Fedorov) ; Hrish, N.J. 1952 ; Chatterji, A.K. & Timothy, D.H. 1969 ; Rangasamy, S.R.S. 1972 ; Mehra, P.N. & Remanandan, P. 1973b
36, 54 Mehra, P.N. & Kohli, B.L. 1966 ; Mehra, P.N. *et al.* 1968
45 Mehra, P.N. & Sharma, M.L. 1973
45, 54 Sharma, M.L. & Kumar, P. 1980
56 Bir, S.S., Gill, B.S. & Kanta, S. 1980

pedicellatum Trin.

- 18, 36, 42,
48, 54 Chatterji, A.K. & Sahu, M. 1980
36 Chatterji, A.K. & Singh, A.K. 1971 ; Olorode, O. 1974b
36, 48, 54 Das, A.P. & Chatterji, A.K. 1977 ; Chatterji, A.K. & Das, A.P. 1979
36, 54 Swaminathan, M.S. & Nath, J. 1956b ; Nath, J. & Swaminathan, M.S. 1957 ; Narayan, K.N. 1962 ; Nath, J. *et al.* 1970 ; Sharma, C.M. & Sinha, P.K. 1971 ; Rangasamy, S.R.S. 1972 ; Sharma, Y.P. 1978
48 Joshi, A.B. *et al.* 1959
48, 54 Chatterji, A.K. 1975
54 Mitra, K. & Datta, N. 1967 ; Sisodia, K.P.S. 1970a ; Khosla, P.K. & Mehra, P.N. 1973 ; Bhattacharya, B. 1974 ; Olorode, O. 1975

polystachyon (Linn.) Schult.

- 34 Sindhe, A.N.R. 1980
36 Narayan, K.N. & Muniyamma, M. 1972
36, 54, 63 Muniyamma, M. & Narayan, K.N. 1975
36, 63 Muniyamma, M. 1968
c.48,
c.52, 54 Gould, F.W. & Soderstrom, T.R. 1974
54 Krishnaswamy, N. & Ramao, V.S. 1949 ; Singh, D.N. & Godward, M.B.E. 1960 ; Tateoka, T. 1965c ; Mehra, P.N. *et al.* 1968 ; Sisodia, K.P.S. 1970a ;

Rangasamy, S.R.S. 1972; Bhattacharya, B. 1974; Chatterji, A.K. 1975; Olorode, O. 1975; Christopher, J. & Abraham, A. 1976; Sindhe, A.N.R. 1977; Dujardin, M. 1978

- 54, 63 Muniyamma, M. & Narayan, K.N. 1971
63 Muniyamma, M. & Narayan, K.N. 1975

purpureum Schum.

- 14 Mehra, P.N. & Kohli, B.L. 1966; Mehra, P.N. *et al.* 1968
21 Bhattacharya, B. 1974
27 Parodi, L.R. 1946; Gould, F.W. & Soderstrom, T.R. 1970
28 Burton, G.W. 1942; Krishnaswamy, N. 1951; Nuñez, O. 1952; Simmonds, N.W. 1954; Chandola, R.P. 1959; Gildenhuys, P. & Brix, K. 1964; Venkateswarlu, J. & Murty, U.R.K. 1966b; Pantulu, J.V. & Venkateswarlu, J. 1968; Ramulu, K.S. 1968; Sethi, G. *et al.* 1970; Ramulu, K.S. & Rangasamy, S.R.S. 1971; Rangasamy, S.R.S. 1972; Kamnacher, P. *et al.* 1973; Olorode, O. 1974b; Mehra, P.N. & Sharma, M.L. 1975b; Christopher, J. & Abraham, A. 1976; Dujardin, M. 1979a
28, 56 Krishnaswamy, N. & Raman, V.S. 1948b
54, 56 Khosla, P.K. & Mehra, P.N. 1973
56 Gadella, T.W.J. & Kliphuis, E. 1964

macrostachyum Benth.

- 68 Narayan, K.N. & Shanthamma, C. 1968; Shanthamma, C. & Narayan, K.N. 1976, 1976-1977; Shanthamma, C. 1979

gymnostachyum (Steud.) Stapf. & Hubb.

- 14 Bhattacharya, B. 1974

ramosum C. Smith*

- 10 Narayan, K.N. 1954; Rao, J.T. & Babu, C.N. 1955; Swaminathan, M.S. & Nath, J. 1956b

ramosum (Hochst.) Schweinf.

- 10 Jauhar, P.P. *et al.* 1971; Rangasamy, S.R.S. 1972
10, 20 Ganesh, D. 1968

setosum (Swartz) Rich.

- 53 Pohl, R.W. & Davidso, G. 1971
54 Avdulov, N.P. (Fedorov); Bhattacharya, B. 1974
72 Davidso, G. & Pohl, R.W. 1972a

triflorum Nees *ex* Steud.

- 18 Mehra, P.N. & Sharma, M.L. 1973, 1975b
36 Gould, F.W. & Soderstrom, T.R. 1974
54 Mehra, P.N. & Kohli, B.L. 1966; Mehra, P.N. *et al.* 1968

orientale Rich.

var. *triflorum*

- 45 Krishnaswamy, N. 1941; Sharma, A.K. & De, D.N. 1956b

typhoides (Burm. f.) Stapf & C.E. Hubb.

- 12+4t,
14+1t Manga, V. & Rao, G.J.N. 1976
12+4t, 13
+2t, 14,
14+1t Pantulu, J.V. & Rao, G.J.N. 1977
13+2 Rao, P.S.R.L.N. 1977
14 Rau, N.S. 1929a; Rangaswami, K. 1935; Krishnaswamy, N. 1941, 1951; Krishnaswamy, N. & Ayyangar, R. 1941; Sharma, A.K. & De, D.N. 1956b; Chandola, R.P. 1959; Pantulu, J.V. 1960b; Gildenhuys, P. & Brix, K. 1961, 1964; Gupta, P.K. 1963b, 1969a, 1971; Al-Fakhry, A.K. *et al.* 1964; Patil, B.D. & Singh, A. 1964; Venkateswarlu, J. & Murty, U.R.K. 1966b; Mehra P.N. *et al.* 1968; Minocha, J.L. *et al.* 1968; Ramulu, K.S. 1968; Sinha, P.K. & Roy, N. 1969; Chandola, R.P. & Jain, S.N. 1970; Jauhar, P.P. 1970c, b; Sethi, G. *et al.* 1970; Sitodia, K.P.S. 1970a; Rangasamy, S.R.S. 1972 Virmani, S.S. & Gill, B.S.

*The combination *Pennisetum ramosum* should be attributed to Schweinf.

1972; Brat, D.S. *et al.* 1973; Dhesi, J.S. *et al.* 1973; Gill, B.S., Sharma, H.L. & Dhesi, J.S. 1973; Lobana, K.S. & Gill, B.S. 1973; Bhattacharya, B. 1974; Tyagi, B.R. 1975; Chatterji, A.K. 1975; Christopher, J. & Abraham, A. 1976; Minocha, J.L. 1977; Singh, R.B. *et al.* 1977; Tyagi, B.R. 1978; Rao, M.V.S. 1980

- 14, 14+1
-4B
(up to 8B) Venkateswarlu, J. & Pantulu, J.V. 1970
14, 15 Gill, B.S., Virmani, S.S. & Minocha, J.L. 1970; Manga, V. 1976
14,
15, 21, 28 Koduru, P.R.K. & Rao, M.K. 1978
14, 21, 28 Gill, B.S., Minocha, J.L., George, M.K. & Brat, D.S. 1970
14+2-5B Pantulu, J.V. & Manga, V. 1975
15 Minocha, J.L. *et al.* 1976; Tyagi, B.R. 1976; Venkateswarlu, J. & Mani, J.N.R. 1978; Murthy, J.V. V.S.N. *et al.* 1979
16 Pantulu, J.V. & Manga, V. 1972
21 Pantulu, J.V. 1968a
21, 28 Singh, R.B. *et al.* 1977
21+3-5B Pantulu, J.V. 1966
1-4B Pantulu, J.V. 1962
3-5B Pantulu, J.V. *et al.* 1978

= *americana* (Linn.) K. Schum.

- 13, 14 Koduru, P.R.K. *et al.* 1980
14 Dhesi, J.S. 1980

typhoides 2n = 13+2t ♂ × normal diploids ♀

- 13+1t Pantulu, J.V. *et al.* 1976

typhoides 2n = 14 × *purpureum* 2n = 28

- 21 Pantulu, J.V. 1968b; Rangasamy, S.R.S. 1972; Sinha, R.R.P. & Jha, R.P. 1972
21, 42 Ramulu, K.S. 1968

(*typhoides* × *purpureum*) × *squamulatum*

- 48 Rangasamy, S.R.S. 1972

villosa R. Br.

- 18, 27, 36,
45, 54 Avdulov, N.P. (Fedorov)
45 Parodi, L.R. 1946; Nudes, O. 1952; Narayan, K.N. 1962, 1964-1965; Fernandes, A. & Queiroz, M. 1969; Rangasamy, S.R.S. 1972

longistylum

- 36 Sisodia, K.P.S. 1970a

Perotis Ait.

10; tropical Africa, Southern India, Sri Lanka, East Asia and Australia. 2; Eastern and Southern India.

borderiformis Nees

- 40 Larsen, K. 1963b

indica (Linn.) O. Kuntze

- 20 Mehra, P.N. & Kohli, B.L. 1966; Mehra, P.N. *et al.* 1968; Malik, C.P. & Mary, T.N. 1970b; Olorode, O. 1975
40 Christopher, J. & Abraham, A. 1974

Phacellurus Griseb.

4; warm East Africa and Asia. 1; North Western India (up to 3,000 m in Himalaya).

speciosa (Steud.) C.E. Hubb.

- 20 Baqar, S.R. & Abid Askari, S.H. 1970a, b; Mehra, P.N. & Remanandan, P. 1973b; Mehra, P.N. & Sharma, M.L. 1975a, 1977a; Sharma, M.L. & Sharma, K. 1979
20, 22 Mehra, P.N. & Sunder, S. 1969
60 Mehra, P.N. *et al.* 1968
80 Mehra, K.L. 1963

Phaenosperma Munro ex Benth. & Hook. f.

1; China, Eastern Himalaya and Assam.

globosum Munro

- 24 Avdulov, N.P. (Fedorov); Tatakai, T. 1954, 1956c

Phalaris Linn.

20; North and South temperate. 5; North Western India, 1 throughout India, a few introduced.

arundinacea Linn.

- 14 Church, G.L. 1929a; Costandrio-

- poulos, J. 1957a; Mehra, P.N. *et al.* 1968
- 14, 28 Church, G.I. 1929b
- 17-42, 56 Hansen, A.A. & Hill, H.D. 1953a
- 28 Avdulov, N.P. (Fedorov); Nakajima, G. 1930; Hunter, A.W.S. 1934; Tischler, G. 1934; Nielsen, E.L. & Humphrey, L.M. 1937; Rohweder, H. 1937; Miège, J. 1939; Parthasarathy, N. 1939; Delay, C. 1947; Pólya, L. 1949; Tateoka, T. 1953; Hubbard, C.E. 1954; Ambastha, H.N.S. 1956; Bowden, W.M. 1960b; Hedberg, I. & Hedberg, O. 1961, 1964; Anderson, D.E. 1961; Laane, M.M. 1969b; Mehra, P.N. & Remagandan, P. 1973a
- 28, Jones, K. 1957
- 35, 42, 56
- 48 Fernandes, A. & Queiros, M. 1969
- Digraphis arundinacea* (Linn.) Trin.
- 28 Löve, A. & Löve, D. 1956b; Sokolovskaya, A.P. (Fedorov)
- var. *arundinacea*
- 28 Mehra, P.N. & Sharma, M.L. 1975c
- var. *picta*
- 28 Mehra, P.N. & Sharma, M.L. 1975c
- canariensis* Linn.
- 12 Avdulov, N.P. (Fedorov); Smith, C.M. 1929; Kattermann, G. 1930; Miège, J. 1939; Parthasarathy, N. 1939; Hubbard, C.E. 1954; Ambastha, H.N.S. 1956; Löve, A. & Löve, D. 1956b; Singh, D.N. & Godward, M.B.E. 1960; Anderson, D.E. 1961; Prasad, A.B. 1967; Fernandes, A. & Queiros, M. 1969; Kadir, Z.B.A. 1974; Prasad, A.B. & Godward, M.B.E. 1974
- 28 Nakajima, G. 1933
- maier* Retz.
- 28 Avdulov, N.P. (Fedorov); Miège, J. 1939; Parthasarathy, N. 1939; Heiser, C.B. & Whitaker, T.W. 1948; Hansen, A.A. & Hill, H.D. 1953a; Hayman, D.L. 1955; Ambastha, H.N.S. 1956; Anderson, D.E. 1961; Rao, T.N.V.R. 1963; Sakamoto, S. & Muramatsu, M. 1963; Prasad, A.B. 1967; Mehra, P.N. *et al.* 1968; Fernandes, A. & Queiros, M. 1969; Gould, F.W. 1970; Saxena, B.K. & Gupta, B.K. 1970; Prasad, A.B. & Godward, M.B.E. 1974; Humphries, C.J. *et al.* 1978
- 28, 28 | 1B Sharma, M.L. & Sharma, K. 1979
- 28+0-1B Sharma, M.L. & Sharma, K. 1978
- paradoxo* Linn.
- 14 Reeder, J.R. 1977; Humphries, C.J. *et al.* 1978; Labadie, J.P. 1979; Miège, J. 1939; Parthasarathy, N. 1939; Heiser, C.B. & Whitaker, T.W. 1948; Hansen, A.A. & Hill, H.D. 1953a; Ambastha, H.N.S. 1956; Anderson, D.E. 1961; Fernandes, A. & Queiros, M. 1969; Kadir, Z.B.A. 1974
- 28 Avdulov, N.P. (Fedorov)
- tuberoso* Linn.
- 14 Miège, J. 1939
- 28 Nielsen, E.L. & Humphrey, L.M. 1937; Parthasarathy, N. 1939; Hansen, A.A. & Hill, H.D. 1953a; Hayman, D.L. 1955; Ambastha, H.N.S. 1956; de Wet, J.W.J. & Anderson, L.J. 1956
- Phleum* Linn.
- 15; temperate Eurasia, North America to Mexico and temperate South America. 4; North Western India, 1 introduced.
- alpinum* Linn.
- 14 Hindáková (Fedorov); Mehra, P.N. & Sunder, S. 1969; Májovský, J. *et al.* 1970a; Contandriopoulos, J. & Gamisans, J. 1974; Uhtriková, A. & Májovský, J. 1977
- 14, 28 Gregor, J.W. & Sansone, F.W. 1930; Müntzing, A. 1935, 1936; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Litardière, R. de 1949a
- 28 Clausen, J. *et al.* 1940b; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Bowden, W.M. 1960b; Sokolovskaya, A.P. (Fedorov).

1968 ; Tateoka, T. 1964 ; Taylor, R.L. 1967 ; Taylor, R.L. & Mulligan, G.A. 1968 ; Mehra, P.N. & Remanandan, P. 1973a ; Mehra, P.N. & Sharma, M.L. 1977 ; Reeder, J.R. 1977 ; Scholte, G. 1977

commutatum Gaub.

- 14 Litardière, R. de 1948b, 1949a ; Michalski, T. 1955
28 Nordenskiöld, H. 1941 ; Löve, A. & Löve, D. 1944b, 1956b, 1966 ; Böcher, T.W. & Larsen, K. 1950 ; Hubbard, C.E. 1954 ; Jørgensen, C. A. *et al.* 1958 ; Rahn, K. 1960 ; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov) ; Packer, J.G. 1964 ; Heitz, B. 1967b ; Laane, M.M. 1967 ; Löve, A. *et al.* 1971, 1980
28, 56 Knaben, G. & Engelskjøn, T. 1967

himalaicum Mez

- 28 Mehra, P.N. & Sunder, S. 1969
28, 28+1
acc. Sharma, M.L. & Sharma, K. 1979
28+0-1B Sharma, M.L. & Sharma, K. 1978

pentulatum Huds.

- 28 Avdulov, N.P. (Fedorov) ; Sharma, M.L. & Sharma, K. 1979

pratense Linn.

- 14 Litardière, R. de 1948c, 1949a
14, 42 Tischler, G. 1934 ; Rohweder, H. 1937 ; Soó, R. 1947
21 Levan, A. 1941
21, 42, 63 Müntzing, A. 1937b
28, 42 Cenci, C.A. 1979
35, 36, 42 Müntzing, A. 1935
40 Davies, J.G. 1927
42 Avdulov, N.P. (Fedorov) ; Gregor, J.W. & Sansome, F.W. 1930 ; Kattermann, G. 1930 ; Nordenskiöld, H. 1937 ; Skovsted, A. 1939 ; Myers, W.M. 1941, 1944 ; Pólya, L. 1950 ; Tateoka, T. 1953 ; Hubbard, C.E. 1954 ; Bowden, W.M. 1960b ; Mehra, P.N. *et al.* 1968 ; Simonsen, O. 1972 ; Wilton, A.C. & Klebesadel, L.J. 1973 ; Moore, R.J. *et al.* 1976 ; Tomkins, D.J. & Grant, W.F. 1978
36, 70, 84 Müntzing, A. & Prakken, R. 1940

Phragmites Trin.

3 ; cosmopolitan, 2 ; 1 in North Western India, 1 throughout India.

communis Trin.

- 36 Tischler, G. 1942
36, 44, 46,
48, 49, 50,
51, 52, 96 Gorenflot, R. *et al.* 1972b
36, 48, 54,
c.96 Avdulov, N.P. (Fedorov)
48 Hunter, A.W.S. 1934 ; Tischler, G. 1934, 1937 ; Rohweder, H. 1937 ; Hagerup, O. 1941b ; Saura, F. 1948 ; Löve, A. 1954b ; Skalińska, M. *et al.* 1968 ; Curran, P.L. 1969
48, 54 Fernandes, A. & Quelros, M. 1969
48, 72 Bjoerk, S. 1966, 1967
48, 96 Hubbard, C.E. 1954
84 Tarnavski, I.T. 1948

karka (Retz.) Trin.

- 36 Ramanathan, K. 1950
36, 38 Larsen, K. 1963b
48 Tateoka, T. 1955, 1956b ; Christopher, J. & Abraham, A. 1971 ; Olorode, O. 1975

Phyllostachys Sieb. & Zucc.

40 ; Himalaya to Japan. 3 ; Hills of Assam, 1 cultivated.

bambusoides Sieb. & Zucc.

- 48 Janaki Ammal, E.K. 1959 ; Kondo, S. 1969

kumasaca Munro

- 48 Mehra, P.N. & Sharma, M.L. 1977

Poa Linn.

About 300 ; cosmopolitan. 45 ; chiefly in temperate and alpine Himalaya (up to 5,000 m).

alpina Linn.

- 14 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov) ; Quézel, P. 1957 ; Timoko, W.A. (Fedorov)
14, 14+1B Müntzing, A. & Nygren, A. 1953

632 POACEAE

- 14, 14+1-
2B Müntzing, A. 1948
14+2-3B Müntzing, A. 1966
- 14, 14+1-
12B Nygren, A. 1956; Milinkovic, V. 1957
- 14, 21, 33,
42 etc. Hubbard, C.E. 1954
- 14, 32, 34,
42 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)
- 22, 23, 26,
28, 33, 35 Skalińska, M. *et al.* 1957
- 22-32, 33,
35, 38 Müntzing, A. 1932c, 1940
22-74 Löve, A. & Löve, D. 1956b
22, 33 Stoeva, M.P. & Kožuharov, S.I. 1978
26-33 Skalińska, M. 1954; Hadač, E. & Hasková, V. 1956
26-61 Müntzing, A. 1954a, b
28 Böhner, T.W. & Larsen, K. 1950
30-32 Contandriopoulos, J. & Gamisana, J. 1974
- c.30-34 Hedberg, O. 1967
32 Zhukova, P.G. & Tikhonova, A.D. 1973; Sharma, M.L. & Sharma, K. 1978
32, 39 Hedberg, O. 1958
32-34 Avdulov, N.P. (Fedorov); Armstrong, J.M. 1937
33-46 Knab, G. & Engelskjön, T. 1967
34, 42 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)
35 Johnson, A.W. & Packer, J.G. 1968; Gadella, T.W.J. & Kliphuis, E. 1970b
- 36, 42, 44,
45, 46 Stoeva, M.P. 1977
42 Ståhl, A. 1929; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Sokolovskaya, A.P. (Fedorov); Taylor, R.L. & Brockman, R.P. 1966; Löve, A. & Ritchie, J.C. 1966
- 42±4f, 44 Flovik, K. 1938, 1940
44 Müntzing, A. & Müntzing, G. 1971
51 Mehra, P.N. & Remanandan, P. 1973a
63 Mehra, P.N. & Sunder, S. 1969
- angustifolia* Linn.
42, 56, 70 Mehra, P.N. & Sood, O.P. 1976
46-72 Löve, A. & Löve, D. 1956b
51-66 Hubbard, C.E. 1954
c.56 Sokolovskaya, A.P. (Fedorov)
- 56, 63-64 Sokolovskaya, A.P. & Probatova, N.S. 1968
- 56+7B Mehra, P.N. & Sunder, S. 1969
- annua* Linn.
14 Mehra, P.N. & Sunder, S. 1969; Ellis, W.M. *et al.* 1970; Gould, F.W. 1970
14, 28 Litardière, R. de 1938
28 Avdulov, N.P. (Fedorov); Kattermann, G. 1930; Tischler, G. 1934; Armstrong, J.M. 1937; Nannfeldt, J.A. 1937a; Rohweder, H. 1937; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Parodi, L.R. 1946; Heiser, C.B. & Whitaker, T.W. 1948; Pölya, L. 1949; Tateoka, T. 1953; Hubbard, C.E. 1954; Tutin, T.O. 1954, 1957; Löve, A. & Löve, D. 1956b; Jørgensen, C.A. *et al.* 1958; Sokolovskaya, A.P. (Fedorov); Diers, L. 1961; Bearman, J.H. *et al.* 1962; Chen, C.C. & Hsu, C.C. 1962; Chrtek, J. & Jirásek, V. 1962; Gadella, T.W.J. & Kliphuis, E. 1964; Gould, F.W. 1968; Kosby, T.K. 1968; Taylor, R.L. & Mulligan, G.A. 1968; Fernandes, A. & Queiros, M. 1969; Mulligan, G.A. & Forsild, A.E. 1969; Christopher, J. & Abraham, A. 1971; Pohl, R.W. & Davidsen, G. 1971; Chopanov, P. & Yurtsev, V.N. 1973; Gould, F.W. & Soderstrom, T.R. 1974; Mehra, P.N. & Sharma, M.L. 1975c, 1977b; Verma, S.C. & Nagpal, R.P. 1976; Stoeva, M.P. 1977; Stoeva, M.P. & Kožuharov, S.I. 1978
28, 24-26 Sokolovskaya, A.P. & Probatova, N.S. 1968
28, 28+1B Mehra, P.N. *et al.* 1968
28+1B Mehra, P.N. & Kohli, B.L. 1966
52 Mehra, P.N. & Remanandan, P. 1973a
- araratica* Trautv.
14 Mehra, P.N. & Sharma, M.L. 1975f, 1977
- bulbosa* Linn.
14, 39, 42,
45 Skalińska, M. *et al.* 1957
14, 28, 45 Hubbard, C.E. 1954
28 Armstrong, J.M. 1937; Strid, A. 1971
28, 33, 36 Stoeva, M.P. 1977
28, 45 Åkerberg, E. 1942

- 33 Natarajan, G. 1979
 40-58 Heyn, C.C. 1962
 42 Skalińska, M. *et al.* 1961
 42+1B Hartung, M.F. 1946
 42, 50 Mehra, P.N. & Remanandan, P. 1973a
 56 Nygren, A. 1957
- f. bulbosa*
 21 Fernandes, A. & Queiros, M. 1969
- callopsis* Linn.*
 14 Mehra, P.N. & Sunder, S. 1969
- compressa* Linn.
 14, 35, 39, 50, 56 Munz, P.A. 1959
 14, 35, 42 Stoeva, M.P. 1977
 35-56 Tomkins, D.J. & Grant, W.F. 1978
 35, 42, 49 Åkerberg, E. 1942
 38, 49+1 Dale, M. R. *et al.* 1975
 42 Avdulov, N.P. (Fedorov); Turesson, G. 1938; Guinochet, M. 1943; Delay, C. 1947; Pólya, L. 1950; Almgård, G. 1960; Sokolovskaya, A.P. & Probatova, N.S. 1973; Stoeva, M.P. & Kožuharov, S.I. 1978
 42, 50 Hartung, M.F. 1946; Grun, P. 1955
 42, 56 Armstrong, J.M. 1937; Rohweder, H. 1937
 42, 56 etc. Hubbard, C.E. 1954
 45, 49, 56 Löve, A. & Löve, D. 1948
 50 Clausen, J. *et al.* 1944
 56 Stählin, A. 1929
 84 Rashid, A. 1974
- inflata* HBK
 14 Nannfeldt, J.A. 1937b; Hubbard, C.E. 1954; Chrtek, J. & Jirásek, V. 1962
- jannarensis* Bor
 28 Mehra, P.N. & Sunder, S. 1969
- khasiana* Stapf
 28 Mehra, P.N. & Sood, O.P. 1974b
- koelzii* Bor
 28+5B Mehra, P.N. & Sharma, M.L. 1975f, 1977
- nemoralis* Linn.
 28 Avdulov, N.P. (Fedorov); Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Skalińska, M. *et al.* 1957; Skalińska, M. & Pogan, B. 1971; Stoeva, M.P. 1977; Stoeva, M.P. & Kožuharov, S.I. 1978
 28, 42 Rohweder, H. 1937; Åkerberg, E. 1942
 28, 42, 56 Hubbard, C.E. 1954
 33 Guinochet, M. 1943
 35 Tateoka, T. 1955, 1956b
 42 Stählin, A. 1929; Armstrong, J.M. 1937; Löve, A. & Löve, D. 1948, 1956b; Böcher, T.W. & Larsen, K. 1950; Gadella, T.W.J. & Kliphuis, E. 1963; Sokolovskaya, A.P. (Fedorov); Sokolovskaya, A.P. & Probatova, N.S. 1968; Fernandes, A. & Queiros, M. 1969
 c.50 Sokolovskaya, A.P. & Probatova, N.S. 1973
 56+1B Mehra, P.N. & Sunder, S. 1969
 c.70 Kato, Y. 1951; Mehra, P.N. & Remanandan, P. 1973a
- nepalensis* Wall.
 14 Mehra, P.N. & Sunder, S. 1969
- pagophila* Bor
 28+2B Mehra, P.N. & Sunder, S. 1969
- palustris* Linn.
 21, 28, 42 Zhirev, E.G. 1968
 28 Avdulov, N.P. (Fedorov); Armstrong, J.M. 1937; Hartung, M.F. 1946; Sokolovskaya, A.P. (Fedorov); Sokolovskaya, A.P. & Probatova, N.S. 1968, 1973
 28, 42 Hubbard, C.E. 1954
 42 Stählin, A. 1929; Avdulov, N.P. (Fedorov)
- pharlana* Bor
 28 Mehra, P.N. & Sharma, M.L. 1972, 1975c
- polycolea* Stapf
 14 Mehra, P.N. & Sunder, S. 1969

*The combination *Poa callopsis* should be attributed to Litw.

- pratensis* Linn.
 25-49 Åkerberg, E. 1936
 28-124 Tomkins, D.J. & Grant, W.F. 1978
 28, 56, 70 Avdulov, N.P. (Fedorov); Tischler, G. 1934; Rohweder, H. 1937
 33-92 Speckmann, G.J. & Van Dijk, G.B. 1972
 35+4B Jørgensen, C.A. *et al.* 1958
 36 Müntzing, A. 1940
 36-85 Müntzing, A. 1932c
 36, 37±1, 38, 49 Dale, M.R. *et al.* 1975
 38-96 Juhl, H. 1952a
 41-64 Brown, W.L. 1939
 42 Almgård, G. 1960
 47-95 Åkerberg, E. 1936
 49-80 Hartung, M.F. 1946
 50-78 Löve, A. & Löve, D. 1956b
 50-124 Hubbard, C.E. 1954
 53-92 Nissen, O. 1950
 56 Delay, C. 1947; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Tateoka, T. 1953; Sokolovskaya, A.P. (Fedorov)
 56, 70 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)
 c.56, 56, 70 Sokolovskaya, A.P. & Probatova, N.S. 1973
 56, c.70 Sokolovskaya, A.P. & Probatova, N.S. 1968
 60 Zhukova, P.G. & Tikhonova, A.D. 1971
 64 Mehra, P.N. & Sunder, S. 1969
 66, 67+f Rancken, G. 1934
 68-70, 74 Clausen, J. *et al.* 1944
 68, 75, 76, 84, 106 Grun, P. 1955
 70 Nakajima, G. 1933; Sokolovskaya, A.P. (Fedorov)
 c.70 Zhukova, P.G. & Tikhonova, A.D. 1973
 c.70, c.76 c.80 Moore, R.J. *et al.* 1976
 70, 78, 91 Löve, A. & Löve, D. 1942a
 72 Sokolovskaya, A.P. (Fedorov)
 74, 78, 80 Skalińska, M. *et al.* 1957
 84 Taylor, R.L. & Mulligan, G.A. 1968
 c.95 Böcher, T.W. & Larsen, K. 1950
- 40, 40±2, 41, 64, 68, ±2, 69, 82 ±2, 86±2 Dale, M.R. *et al.* 1975
- var. *pratensis*
 28 Stoeva, M.P. 1977
 90 Fernandes, A. & Queiros, M. 1969
- elklimensis* Bor
 28 Mehra, P.N. & Sharma, M.L. 1972, 1975c
 42 Mehra, P.N. & Sood, O.P. 1975
- stapfiiana* Bor
 28 Mehra, P.N. & Sunder, S. 1969
- sterilis* M. Bieb.
 28 Ståhlén, A. 1929; Sharma, M.L. & Sharma, K. 1979
 42 Armstrong, J.M. 1937
 56+2B Mehra, P.N. & Sunder, S. 1969
- stewartiana* Bor
 28 Mehra, P.N. & Sunder, S. 1969
- rupina* Schrad.
 14 Nannfeldt, J. & Jirásek, V. 1962
 28-1B Mehra, P.N. & Sunder, S. 1969
- tibetica* Munro
 42 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)
- trivialis* Linn.
 14 Avdulov, N.P. (Fedorov); Tischler, G. 1934; Armstrong, J.M. 1937; Nannfeldt, J.A. 1937b; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov); Löve, A. & Löve, D. 1942a, 1956b; Hubbard, C.E. 1954; Skalińska, M. *et al.* 1957; Sokolovskaya, A.P. & Probatova, N.S. 1968, 1973; Ahmed, M.K. *et al.* 1972; Taylor, R.L. & Mulligan, G.A. 1968; Fernandes, A. & Queiros, M. 1969; Pohl, R.W. & Davidse, G. 1971; Mehra, P.N. & Sood, O.P. 1975; Mehra, P.N. & Sharma, M.L. 1977b
 14, 14+1-4B Basemark, N.O. 1957
 14, 15 Åkerberg, E. 1942
 14, 28 Guinochet, M. 1943
 28 Tateoka, T. 1954
 56 Mehra, P.N. & Sunder, S. 1969
- pratensis* × *compressa*
 36, 36±2, 37, 38±1,

var. glabra Doell

- 14 Mehra, P.N. & Sood, O.P. 1976

var. trivialis

- 14 Mehra, P.N. & Sood, O.P. 1976

Pogonatherum P. Beauv.

3; India to Japan. 3; Eastern Himalaya, a few throughout India, and Sri Lanka.

crinitum (Thunb.) Kunth

- 20 Tateoka, T. 1956b, 1967; Chen, C.C. & Hsu, C.C. 1962; Reeder, J.R. & Soderstrom, T.R. 1968; Gould, F.W. & Soderstrom, T.R. 1974; Mehra, P.N. & Sharma, M.L. 1975a; Christopher, J. 1978

panicum (Lam.) Hack.

- 20 Hubbard, C.E. & Vaughan, R.E. 1940; Gupta, P.K. 1963b, 1969a, 1971; Mitra, K. & Datta, N. 1967; Mehra, P.N. *et al.* 1968; Mehra, P.N. & Sharma, M.L. 1975a; Shanthamma, C. 1976; Shanthamma, C. & Narayan, K.N. 1976-1977
40 Mehra, P.N. & Kalia, V. 1975

rafobarbatum Griff.

- 40 Mehra, P.N. & Kalia, V. 1974

Polypogon Desf.

15; tropics and warm temperate. 2; Himalaya.

fugax Nees ex Steud.

- 28 Mehra, P.N. & Sunder, S. 1969
42 Ono, H. & Tateoka, T. 1953; Björkman, S.O. 1954a; Tateoka, T. 1955, 1967; Chen, C.C. & Hsu, C.C. 1962; Mehra, P.N. & Remanandan, P. 1973a; Mehra, P.N. & Sharma, M.L. 1975c, 1977
42, 42+1B Sharma, M.L. & Sharma, K. 1979
42+1B Sharma, M.L. & Sharma, K. 1978
42+2-3B Sharma, M.L. & Kumar, P. 1980

monspeliensis (Linn.) Desf.

- 28 Avdulov, N.P. (Fedorov); Parodi, L.R. 1946; Heiser, C.B. & Whitaker, T.W. 1948; Hubbard, C.E. 1954; Bowden, W.M. & Seem, H.A. 1962; Gupta, P.K. 1963b, 1969a, 1971; Sakamoto, S. & Muramatsu, M. 1963; Gould, F.W. 1968, 1970; Fernandes, A. & Queiros, M. 1969; Mehra, P.N. & Sunder, S. 1969; Malik, C.P. & Tripathi, R.C. 1970; Mehra, P.N. & Remanandan, P. 1973a
28, 42 Mehra, P.N. & Kohli, B.L. 1966; Mehra, P.N. *et al.* 1968
35 Sindhe, A.N.R. 1969; Sindhe, A.N.R. & Narayan, K.N. 1976

Polytoca R. Br.

6; Indo-Malesia. 2; Eastern India.

digitata (Linn. f.) Druce

- 20 Mehra, P.N. & Chaudhury, J.D. 1974

Polytrias Hack.

1; Java. Calcutta.

amaura (Büse) O. Kuntze

- 20 Larsen, K. 1963b; Pohl, R.W. & Davidse, G. 1971

Pseudanthistiria (Hack.) Hook. f.

4; India, Siam and South China. 3; Western, Central, Eastern and Southern India, and Sri Lanka.

heteroclita (Roxb.) Hook. f.

- 20,
20+1-5B Birari, S.P. 1980

hispidula (Hack.) Hook. f.

- 20 Birari, S.P. 1980

umbellata (Hack.) Hook. f.

- 20 Shanthamma, C. 1976; Christopher, J. 1978; Birari, S.P. 1980

Pseudechinolaena (Hook. f.) Stapf

1; tropics. Hills of Eastern and Southern India, and Sri Lanka.

polystachya (HBK) Stapf

- 36 Tateoka, T. 1965a; Pohl, R.W. & Davidse, G. 1971; Davidse, G. & Pohl, R.W. 1974; Christopher, J. & Abraham, A. 1976; Mehra, P.N. & Chaudhary, J.D. 1976; Dujardin, M. 1978

Echinochloa polystachya HBK

- 36 Gould, F.W. *et al.* 1972

Pseudoraphis Griff.

7; India and Japan to Australia. 3; Western, Eastern and Southern India, and Sri Lanka.

oleacea Pilger

- 16 Mehra, P.N. & Chaudhary, J.D. 1976

sphaecosa (R. Br.) Vickery

- 32 Murty, U.R.K. 1965; Gould, F.W. & Soderstrom, T.R. 1974

squarrosa (Linn. f.) Chase

- a.40 Chen, C. & Hau, C. 1961

Pseudosorghum A. Camus

1; tropical Asia. Widely distributed in India.

fascicularis (Roxb.) A. Camus

- 20 Raman, V.S. *et al.* 1959a

Puccinellia Parl.

100; North temperate and South Africa. 4; North Western Himalaya.

thomsonii (Stapf) Stewart

- 28 Mehra, P.N. & Ramanandan, P. 1973a

Rhynchosytrum Nees *corr.* Eadl.

37; tropical Africa. Madagascar and

Arabia to Indo-China. 2; drier parts of India, 1 introduced.

repens (Willd.) C.E. Hubb.

- 18 Dujardin, M. 1979a

- 36 Moffett, A.A. & Hurcombe, R. 1949; de Wet, J.M.J. & Anderson, L.J. 1956; Tateoka, T. 1965a; Gould, F.W. & Soderstrom, T.R. 1967, 1970, 1974; Pohl, R.W. & Davidse, G. 1971; Khosla, P.K. & Mehra, P.N. 1973; Christopher, J. & Abraham, A. 1976; Bir, S.S., Gill, B.S., Singhal, V.K. & Bedi, Y.S. 1979; Dujardin, M. 1979b

Tricholaena rosea Nees

- 36 Avdniov, N.P. (Fedorov)

villosum (Pari.) Chiov.

- 36 Singh, D.N. & Godward, M.B.E. 1960; Shanthamma, C. & Narayan, K.N. 1967; Shanthamma, C. *et al.* 1976; Shanthamma, C. & Narayan, K.N. 1976-1977

Rottboellia Linn. f.

4; tropical and subtropical Africa and Asia. 2; 1 in Assam, 1 throughout India.

exaltata Linn. f.

- 20 Moffett, A.A. & Hurcombe, R. 1949; Celavier, R.P. 1957a; Rao, T.N.V.R. 1962; Mitra, K. & Datta, N. 1967; Mehra, P.N. *et al.* 1968; Pohl, R.W. & Davidse, G. 1971; Kammacher, P. *et al.* 1973; Olorode, O. 1974b; Dujardin, M. 1978, 1979b
- 20, 40 Roy, R.P. & Kumari, S. 1967b; Sindhe, A.N.R. 1967; Sindhe, A.N.R. *et al.* 1975
- 36 Krishnaswamy, N. *et al.* 1954; Singh, D.N. 1964; Roy, R.P. & Singh, D.N. 1956
- 36, 40 Gould, F.W. & Soderstrom, T.R. 1974
- 40 Narayan, K.N. & Shanthamma, C. 1968; Mehra, P.N. & Kalita, V. 1974; Chatterji, A.K. 1975; Shanthamma, C. & Narayan, K.N. 1976-1977; Christopher, J. 1978
- 60 Chen, C.C. & Hau, C.C. 1962

goalparensis Bor

20 Mehra, P.N. & Kalia, V. 1974

Saccharum Linn.

About 8; tropics and subtropics. 8; Northern, North Western and Eastern India, 1 introduced a few cultivated.

arundinaceum Retz.40 Janaki Ammal, E.K. 1937; Mehra, P.N. *et al.* 1968

40, 60 Bremer, G. 1925, 1934

Erianthus arundinaceus (Retz.) Jesw.

30,

40, 50, 60 Babu, C.N. & Srinivasan, K. 1960

40 Celarier, R.P. 1956a

40, 60 Bremer, G. 1934

50 Janaki Ammal, E.K. 1941; Price, S. 1956, 1957a, 1959

barberi Jesw.

82-124 Bremer, G. 1931, 1932; Moriya, A. 1940

bengalense Retz.

20, 20+

1', 22, 22

+1', 24

24+1' Mehra, P.N. & Kalia, V. 1973

20, 22, 24,

40, 60 Mehra, P.N. *et al.* 1968

20,

24, 40, 60 Mehra, P.N. & Koonar, J. S. 1964-1965; Mehra, P.N. & Kohli, B.L. 1966

54 Azam, P. *et al.* 1969*ciliare* Anders.

40 Bremer, G. 1925

munja Roxb.

40 Mulay, B.N. & Poonama, P. 1956

60 Bremer, G. 1925

Erianthus ciliaris Jesw.

40 Bremer, G. 1925; Kandaswami, P.A. & Subba Rao, K.S. 1959

Erianthus munja (Roxb.) Jesw.20 Mehra, K.L. *et al.* 1962; Jagathesan, D. & Rama Devi, K.N. 1969

60 Bremer, G. 1925; Celarier, R.P.

1956a; Babu, C.N. & Srinivasan, K. 1960

Erianthus sara (Roxb.) Rümke

60 Rümke, C.L. 1934 (Celarier, R.P. 1956a); Janaki Ammal, E.K. 1941

griffithii Munro40, 60 Faruqi, S.A. *et al.* 1979*officinarium* Linn.

60, 80, 90 Bremer, G. 1931

c.68 Kuwada, Y. 1915

68, 80 Kandaswami, P.A. & Subba Rao, K.S. 1959

78-83 Jagathesan, D. & Ratnambal, M.J. 1967

79-81, 99

108 Price, S. & Daniels, J. 1968

80 Bremer, G. 1932, 1934, 1961a, b, c,

d; Janaki Ammal, E.K. 1941;

Nishiyama, I. 1956; Kandaswami,

P.A. & Rao, J.T. 1957; Price, S.

1957c, 1958; Li, H.W. 1958;

Kandaswami, P.A. & Subba Rao,

K.S. 1959; Moriya, A. 1940;

Sizodia, N.S. 1967; Janaki Ammal,

E.K. *et al.* 1972; Nair, M.K. 1975

80, 88, 90,

120

Nair, M.K. 1972a

c.83, 84,

c.92-93,

100, 107-

114

Li, H.W. & Price, S. 1965

86-126

Liu, M.-C. & Chen, W.-H. 1976

c.112

Gupta, S.C. *et al.* 1976*officinarium* × *spontaneum*

86, 88,

108, 109,

136, 142

Nair, M.K. 1972a

86, 90,

107, 108,

110, 112,

114, 120,

136, 142,

143,

Nair, M.K. 1975

88, 90, 92,

109, 116,

120

Nair, M.K. 1973

officinarium × *Zea mays*

52-58 +

2-8B

Janaki Ammal, E.K. *et al.* 1972

- procerum* Roxb.
40 Mehra, P.N. & Kalia, V. 1974
- robustum* Brandes & Jesw. ex Grassl
60-114 Celazrier, R.P. 1956a
60, 80 Jagathesan, D. & Ratoombal, M.J. 1969
60, 80,
63-194 Price, S. 1957a, b
c.64 Li, H.W. & Price, S. 1965
80 Janaki Ammal, E.K. 1941 ;
Nishiyama, I. 1956 ; Bremer, G.
1961a
80-104 Price, S. 1956
84 Kandaswami, P.A. & Subba Rao,
K.S. 1959
- abundans* Roxb.
81, 82, 83,
91, 91+f,
92, 104-
121, 105
-119, 106
-120, 124 Price, S. 1965
116-118 Bremer, G. 1931, 1932, 1934, 1961a
118-120 Price, S. 1957c
- spontaneum* Linn.
40-126 Sreenivasan, T.V. & Jagathesan, D.
1975
40, 42, 44,
54, 56, 72,
72+4f Mehra, P.N. & Sood, O.P. 1974a
40, 48, 64,
80, 96,
112, 124,
126 Sreenivasan, T.V. 1975
40, 54, 56,
61-64, 66,
80, 112,
124, 128 Nair, M.K. 1972b
40, 54, 57,
62, 64, 66,
80, 112,
124, 128 Nair, M.K. 1972a
40, 54, 64,
80, 96,
108, 112,
125, 126,
128 Sreenivasan, T.V. & Jagathesan, D.
1973
40, 72 Mehra, P.N. *et al.* 1968
40-128 Panje, R.R. & Babu, C.N. 1960
48,
56, 64, 80 Janaki Ammal, E.K. 1936
48-128 Bremer, G. 1961a, b, c, d
48-130 Moriya, A. 1950 (Celazrier, R.P.
1956a)
52, 60 Faruqi, S.A. *et al.* 1979
54, 56, 61,
63, 64, 80,
112, 124,
128 Nair, M.K. 1975
54-128 Singh, T.S.N. 1934
55-126 Bremer, G. 1934
58, 60 Sinha, R.R.P. & Jha, R.P. 1971
60 Gould, F.W. & Soderstrom, T.R.
1974
64 Dutt, N.L. & Subba Rao, K.S.
1933 ; Nishiyama, I. 1956 ; Christo-
pher, J. 1978
64, 80,
112, 128 Price, S. 1958
64, 120 Jagathesan, D. & Sreenivasan, T.V.
1966
64-126 Bremer, G. 1931
64-128 Panje, R.R. & Babu, C.N. 1960
c.68 Kuwada, Y. 1915
70-173 Li, H.W. & Ma, T.H. 1951
72, 88 Santos, J.K. 1937
77, 78, 80,
88,
c.94, 96
96+f Price, S. 1959
80, 96 Price, S. 1957a, b
80, 112 Bremer, G. 1925, 1932
c.96 Li, H.W. & Price, S. 1965
96 Janaki Ammal, E.K. & Singh, T.S.N.
1936
96, 128 Price, G. 1957c
c.100 Larsen, K. 1963b
104, 112 Moriya, A. 1956
107-115 Yamashita, K. 1937c
112 Bremer, G. 1928, 1934, Janaki
Ammal, E.K. 1941 ; Chen, C.C. &
Hsu, C.C. 1962
120 Kandaswami, P.A. & Rao, J.T.
1957
128 Rao, J.T. & Babu, C.N. 1955
- spontaneum* 2n=56 × *Sorghum darra* 2n=20
38, 66 Janaki Ammal, E.K. 1938b
- Sacciolepis* Nash
30 ; tropics and subtropics. 4 ; some
throughout India, 1 in Southern India, and
Sri Lanka.

curvata (Linn.) A. Chase

- 18 Tateoka, T. 1965c; Gould, F.W. & Soderstrom, T.R. 1974; Christopher, J. & Abraham, A. 1976
36 de Wet, J.M.J. 1960a

indica (Linn.) A. Chase

- 18 Larsen, K. 1963b; Sindho, A.N.R. 1969; Pohl, R.W. & Davidse, G. 1971; Gould, F.W. & Soderstrom, T.R. 1974; Mehra, P.N. & Sharma, M.L. 1975b; Christopher, J. & Abraham, A. 1976; Muniyamma *et al.* 1976
36 Mehra, P.N. & Chaudhary, J.D. 1976

laterrupta (Willd.) Stapf

- 36 Subramanyam, K. & Kamble, N.P. 1966; Sindho, A.N.R. 1969; Gould, F.W. & Soderstrom, T.R. 1974; Christopher, J. & Abraham, A. 1976; Muniyamma *et al.* 1976
34 Mehra, P.N. & Chaudhary, J.D. 1974

myosuroides (R. Br.) A. Camus

- 18 Mehra, P.N. & Chaudhary, J.D. 1976
36 Larsen, K. 1963b

Schismus P. Beauv.

5; Africa and Mediterranean to North Western India. 2; North Western India.

arabicus Nees

- 12 Gould, F.W. 1958; Howden, W.M. & Senn, H.A. 1962

barbatus (Linn.) Thell.

- 12 Gould, F.W. 1958, 1970; Humphries, C.J. *et al.* 1978

calycinus (Linn.) Duval-Jouve

- 12 Avdulov, N.P. (Fedorov); Parodi, L.R. 1946

Schizachyrium Nees

50; tropics. 6; Kashmir, Eastern Himalaya and Western India, a few throughout India, and Sri Lanka.

brevifolium Nees

- 20 Mehra, P.N. & Kalra, V. 1974; Dujardin, M. 1979a

Andropogon brevifolius Swartz

- 20 Tateoka, T. 1954
40 Snyder, L.A. 1953 (Carnahan, H.L. & Hill, H.D. 1961)

delavayi (Hack.) Bor

- 20 Mehra, P.N. & Kalra, V. 1974

exile Pilger*

- 40 Olorode, O. 1974b

exile Stapf

- 20 Christopher, J. 1978

anguineum (Ratz.) Alston

- 40 Olorode, O. 1974b
50 Kammacher, P. *et al.* 1973; Dujardin, M. 1978
80 Gould, F.W. & Soderstrom, T.R. 1974

Sclerachne R. Br.

1; Java and Timor. Southern India.

punctata R. Br.

- 20 Reeves, R.G. & Mangelsdorf, P.C. 1935; Mangelsdorf, P.C. & Reeves, R.G. 1939; Moffat, A.A. & Hurcombe, R. 1949; Larsen, K. 1963b

Sclerochloa P. Beauv.

1; South Europe and West Asia. Kashmir valley.

lancea P. Beauv.

- 14 Avdulov, N.P. (Fedorov); Delay, J.

*The combination *Schizachyrium exile* was made by Stapf.

640 POACEAE

1970a; Václavá, M. & Feráková, V. 1977

Sclerostachya (Hack.) A. Camus

3; Assam, Indo-China and Malay Peninsula. 2; Assam and Gangetic Plains.

fusca (Roxb.) A. Camus

30 Li, Y. (Fedorov); Kandaswami, P.A. & Subba Rao, K.S. 1959; Mehra, P.N. & Sharma, M.L. 1973, 1975a

48, 96 Janaki Ammal, E.K. 1940a

sp.

30, 30 + 1f Parthasarathy, N. & Rao, K.S.S. 1947

Secale Linn.

4; Mediterranean and Eastern Europe to Central Asia. 1 in South Africa. 1; cultivated.

cereale Linn.

13 + 2B,

14 + 0-4B,

15 + 2B,

17 + 2B,

28 + 2B Asami H. *et al.* 1976

14 Nikolaeva, A.G. (Fedorov); Aase, H.C. & Powers, L.R. 1926; Thompson, W.F. 1926a, 1931; Baume, H.K. (Fedorov); Karpechenko, G.D. & Sorokina, O.N. 1929; Lewitsky, G.A. 1930; Longley, A.B. & Sando, W.J. 1930; Sarana, M.O. (Fedorov); Lewitsky, G.A. *et al.* 1931; Lewitsky, G.A. & Araratyan, A.G. 1931; Hasegawa, N. 1934; Breslawetz, L.P. *et al.* 1935; Wakar, B.A. (Fedorov); Kostoff, D. 1936, 1937a, b, 1940; Ruttle, M.L. & Nebel, B.R. 1937; Schmergonj, Y.N. (Fedorov); Kachidze, N.T. (Fedorov); Lima-de-Faria, A. & Sarvella, P. 1958; Sybenga, J. 1960; Bowden, W.M. 1966; Bennett, M.D. & Rees, H. 1969; Wigenaar, E.B. 1969; Natarajan, A.T. & Ahnstrom, G. 1970; Vosa, C.G. 1974; Bowman, J.G. & Rajhathy, T. 1977

14,

14 + 1-6B Puertas, M.J. & Lacadena, J.R. 1974

14, 14 + 1-8B Müntzing, A. 1943, 1954a; Oinuma, T. 1952b, 1953a

14, 14 + 2B Gupta, P.K. 1980; Romero, C. & Lacadena, J.R. 1980

14 + B de Vries, J.M. & Sybenga, J. 1976

14 + 1-2B Puertas, M.J. & Lacadena, J.R. 1974

14 + 1-8B Kishikawa, H. 1970

14 + 4B Müntzing, A. 1966

14 + 5B Dowrick, G.J. (Darlington, C.D. 1963)

14 + 2st

B's + 1st

B, 14 + 2st

B's + 1def

B, 14 + 5st

B's, 14 +

4st B's + 1

def B Kishikawa, H. 1977

14, 16 Gotoh, K. 1924; Kihara, H. 1924; Darlington, C.D. 1933c

16 Nakao, M. 1911; Bally, W. 1912

18 Nakajima, G. 1937a

27, 28, 29 Müntzing, A. 1951

28 Gulcan, R. & Sybenga, J. 1967; Schooler, A.B. 1967

42, 43 Gupta, P.K. 1969c

1-4B Zecevic, L.J. & Pautovic, D. 1969

Sehima Forsk.

7; warm Africa, India and Australia. 4; almost throughout India ascending up to 2,000 m in Western Himalaya.

nervosum (Rottl.) Stapf

20 Gould, F.W. & Soderstrom, T.R. 1974

20, 40 Mehra, K.L. 1955b

34 Sampath, S. & Ramanathan, K. 1949

40 Celacier, R.P. 1957a; Tateoka, T. 1965a; Oke, J.G. 1973a, b; Christopher, J. 1974

var. *robusta* Stapf

40 Oke, J.G. 1971, 1973b

notatum (Hack.) A. Camus

60 Mehra, K.L. 1965

puberulum (Hack.) A. Camus

20 Joshi, A.B. *et al.* 1959

40 Oke, J.G. 1971, 1973b

Semiarundinaria Makino ex Nakai

20 ; East Asia. 1 ; Eastern Himalaya.

pantlingii (Gamble) Nakai*Arundinaria pantlingii* Gamble

48 Mehra, P.N. & Sharma, M.L. 1972, 1975e

Setaria P. Beauv.

About 140 ; tropics and warm temperate. 16 ; widely distributed in India, and Nepal and Sri Lanka, a few introduced, 1 cultivated.

 barbata (Lam.) Kunth36 Olorode, O. 1975
54 Davidse, G. & Pohl, R.W. 1974 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Christopher, J. & Abraham, A. 1976 ; Gadella, T.W.J. 1977 ; Dujardin, M. 1978
56 Sarkar, A.K. *et al.* 1976*forbesiana* (Nees ex Steud.) Hook. f.

36 Mehra, P.N. & Sharma, M.L. 1972, 1975b ; Khosla, P.K. & Sharma, M.L. 1973 ; Sinha, R.V. & Gupta, P.K. 1977

geniculata (Lam.) P. Beauv.36 Gould, F.W. 1960 ; Gould, F.W. & Soderstrom, T.R. 1970 ; Pohl, R.W. & Davidse, G. 1971 ; Sacchet, A.M. de O.F. & Boldrini, I.I. 1980
36, 72 Gould, F.W. & Soderstrom, T.R. 1967
72 Kishimoto, E. 1938 ; Brown, W.V. 1948 ; Platzer, H. 1962 ; Gould, F.W. 1966 ; Fernandes, A. & Queiros, M. 1969 ; Hsu, C.-C. 1972*glauca* (Linn.) P. Beauv.18, 36 Hubbard, C.E. 1954
28 Mehra, P.N. & Sunder, S. 1969
36 Avdulov, N.P. (Fedorov) ; Tischler, G. 1934 ; Krishnaswamy, N. & Ayyangar, R. 1935b ; Ruhweder, H. 1937 ; Kishimoto, E. 1938 ; Delay, C. 1947 ; Krishnaswamy, N. 1951 ; Sharma, A.K. & De, D.N. 1956b ; Chandola, R.P. 1959 ; Singh, D.N. & Godward, M.B.E. 1960 ; Platzer,H. 1962 ; Gupta, P.K. 1963b, 1971 ; Narayan, K.N. & Shanthamma, C. 1968 ; Malik, C.P. & Tripathi, R.C. 1970 ; Mehra, P.N. & Remanandan, P. 1973b ; Christopher, J. & Abraham, A. 1976 ; Shanthamma, C. *et al.* 1976 ; Kliphuis, B. 1977 ; Sinha, R.V. & Gupta, P.K. 1977 ; Tomkins, D.J. & Grant, W.F. 1978 ; Javůrková, V. 198036+0-3B Khosla, P.K. 1972
36, 38 + 0
-3B, 44, 72 Khosla, P.K. & Sharma, M.L. 1973
36, 38 + 0-3B, 72 Khosla, P.K. & Singh, S. 1972
36, 54 Bhattacharya, B. 1974
36, 72 Mehra, P.N. & Kohli, B.L. 1966 ; Mehra, P.N. *et al.* 1968 ; Fernandes, A. & Queiros, M. 1969
72 Tarnavski, I.T. 1948 ; Björkqvist, I. *et al.* 1969 ; Mehra, P.N. & Sharma, M.L. 1975b*Pennisetum glaucum* (Linn.) R. Br.

14 Rau, N.S. 1929b ; Karper, R.E. & Chisholm, A.T. 1936 ; Burton, G.W. 1942 ; Krishnaswamy, N. 1951

lutescens (Weigel) T. Hubb.36 Heiser, C.B. & Whitaker, T.W. 1948 ; Willweber-Kishimoto, E. 1962
72 Brown, W.V. 1948*homonyma* (Steud.) Chiov.20 Sinha, R.V. & Gupta, P.K. 1977
36 Tateoka, T. 1965a ; Saxena, B.K. & Gupta, B.K. 1970 ; Khosla, P.K. & Sharma, M.L. 1973, 1975b*italica* (Linn.) P. Beauv.18 Avdulov, N.P. (Fedorov) ; Morinaga, T. *et al.* 1929 ; Nakajima, G. 1930 ; Krishnaswamy, N. & Ayyangar, R. 1935b ; Kishimoto, E. 1938 ; Parodi, L.R. 1946 ; Krishnaswamy, N. 1951 ; Sharma, A.K. & De, D.N. 1956b ; Chandola, R.P. 1959 ; Singh, D.N. & Godward, M.B.E. 1960 ; Bowden, W.M. & Senn, H.A. 1962 ; Pohl, R.W. 1962 ; Willweber-Kishimoto, E. 1962 ; Mehra, P.N. *et al.* 1968 ; Gupta, P.K. & Yashvir 1971 ; Khosla, P.K. & Sharma, M.L. 1973 ; Bhattacharya, B. 1974 ; Christopher, J. & Abraham, A. 1976 ; Sinha, R.V. & Gupta, P.K. 1977

megaphylla (Steud.) Dur. & Schinz.

- 36 Kammacher, P. *et al.* 1973 ; Olorode, O. 1975 ; Dujardin, M. 1978

pallido-fusca (Schum.) Stapf & C.E. Hubb.

- 18 Tateoka, T. 1965a ; Malik, C.P. & Tripathi, R.C. 1970 ; Olorode, O. 1975
18, 36 Singh, D.N. & Godward, M.B.E. 1960 ; Sinha, R.V. & Gupta, P.K. 1977
36 Moffett, A.A. & Hurcombe, R. 1949 ; Trouin, M. 1972 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Dujardin, M. 1979b
72 Willweber-Kishimoto, E. 1962

patrifolia Stapf

- 36, 54 Khosla, P.K. & Sharma, M.L. 1973
54 Krishnaswamy, N. 1951 ; Krishnaswamy, N. *et al.* 1954 ; Tateoka, T. 1955 ; 1956b ; Singh, D.N. & Godward, M.B.E. 1960 ; Larsen, K. 1963b ; Bhattacharya, B. 1974 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Mehra, P.N. & Sharma, M.L. 1975b ; Christopher, J. & Abraham, A. 1976

paniculifera (Steud.) Fourm. ex Hemsl.

- 32 Davidse, G. & Pohl, R.W. 1974
34 Tateoka, T. 1962a ; Pohl, R.W. & Davidse, G. 1971
34 Mehra, P.N. & Sharma, M.L. 1972, 1975b ; Khosla, P.K. & Sharma, M.L. 1973

plicata (Lam.) T. Cooke

- 18 Singh, D.N. & Godward, M.B.E. 1960
36 Avdulov, N.P. (Fedorov) ; Parodi, L.R. 1946 ; Christopher, J. & Abraham, A. 1976
54 Reeder, J.R. & Soderstrom, T.R. 1968 ; Khosla, P.K. & Sharma, M.L. 1973 ; Mehra, P.N. & Sharma, M.L. 1975b
72 Mehra, P.N. & Chaudhary, J.D. 1975

Panicum plicatum Lam.

- 54 Avdulov, N.P. (Fedorov)

pelretiana (Schult.) Kunth

- 27 Tateoka, T. 1962a
32 Sacchet, A.M. de O.F. & Boldrini, J.I. 1980
36 Gould, F.W. & Soderstrom, T.R. 1970

sphaecelata (Schum.) Stapf & C.E. Hubb.

- 18 de Wet, J.M.J. 1958a ; Tateoka, T. 1965a ; Pohl, R.W. & Davidse, G. 1971 ; Dujardin, M. 1979a
18, 36 Bhattacharya, B. 1974
36 Ramanathan, K. 1950 ; de Wet, J.M.J. & Anderson, L.J. 1956 ; Khosla, P.K. & Sharma, M.L. 1973 ; Sindhe, A.N.R. 1977
36, 54 Moffett, A.A. & Hurcombe, R. 1949
40 Mehra, P.N. & Kohli B.L. 1966 ; Mehra, P.N. *et al.* 1968
54 Kammacher, P. *et al.* 1973

tomentosa (Roxb.) Kunth

- 18 Sindhe, A.N.R. 1977
36 Gupta, P.K. 1963a, b, 1969a, 1971 ; Mitra, K. & Datta, N. 1967 ; Malik, C.P. & Tripathi, R.C. 1970 ; Saxena, B.K. & Gupta, B.K. 1970 ; Gupta, P.K. & Yashvir 1971 ; Khosla, P.K. & Sharma, M.L. 1973 ; Mehra, P.N. & Ramanandan, P. 1973b ; Gould, F.W. & Soderstrom, T.R. 1974 ; Mehra, P.N. & Sharma, M.L. 1975b ; Sinha, R.V. & Gupta, P.K. 1977

intermedia (Roth) Roem. & Schult.

- 36 Krishnaswamy, N. & Raman, V.S. 1949
54 Raman, V.S. *et al.* 1959b

verticillata (Linn.) P. Beauv.

- 18 Krishnaswamy, N. & Ayyangar, R. 1935b ; Sharma, A.K. & De, D.N. 1956b ; Tateoka, T. 1965a ; Fernandes, A. & Queiros, M. 1969 ; Bhattacharya, B. 1974
18, 36, 54 Mehra, P.N. & Kohli, B.L. 1966 ; Mehra, P.N. *et al.* 1968
36 Avdulov, N.P. (Fedorov) ; Parodi, L.R. 1946 ; Chandola, R.P. 1959 ; Platzer, H. 1962 ; Pohl, R.W. 1962 ; Willweber-Kishimoto, E. 1962 ; Gould, F.W. 1966 ; Váchová, M. & Feráková, V. 1978, 1980
36, 54 Singh, R.V. & Gupta, P.K. 1977

c.54 Strid, A. 1971

- 54 Raman, V.S. *et al.* 1959b ; Gupta, P.K. & Yashvir 1971 ; Khosla, P.K. 1972 ; Khosla, P.K. & Sharma, M.L. 1973 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Christopher, J. & Abraham, A. 1976

Panicum verticillatum Linn.

- 20 Krishnaswamy, N. 1941

viride (Linn.) P. Beauv.

- 18 Avdulov, N.P. (Fedorov) ; Tischler, G. 1934 ; Kishimoto, E. 1938 ; Rohweder, H. 1938 ; Heiser, C.B. & Whitaker, T.W. 1948 ; Tateoka, T. 1953, 1954 ; Hubbard, C.E. 1954 ; Fairbrothers, D.E. 1959 ; Gould, F.W. 1960 ; Platzer, H. 1962 ; Pohl, R.W. 1962 ; Willweber-Kishimoto, E. 1962 ; Podtch, D. & Dieterle, A. 1969 ; Khosla, P.K. & Sharma, M.L. 1973 ; Mehra, P.N. & Remanandan, P. 1973b ; Christopher, J. & Abraham, A. 1976 ; Kliphuis, E. 1977 ; Mehra, P.N. & Sharma, M.L. 1977 ; Kliphuis, E. & Wieffering, J.H. 1979
- 35 Sokolovskaya, A.P. & Sereikova, O.S. (Fedorov)
- 36 Fernandes, A. & Queiroz, M. 1969

Sorghastrum Nash

12 ; tropical and warm temperate America, and tropical Africa. 1 introduced.

notata (Linn.) Nash

- 20 Sauro, F. 1948
- 40 Church, G.L. 1929b ; Brown, W.V. 1950 ; Gould, F.W. 1956 ; Celarier, R.P. 1959 ; Bowden, W.M. 1960b ; Mehra, K.L. *et al.* 1962

Sorghum Mouch

60 ; tropics and subtropics. 25 ; many cultivated throughout India, some widely distributed in India - a few introduced.

almum Parodi

- 40 Saez, F.A. & Nuñez, O. 1943 ; Krishnaswamy, N. 1951 ; Endrizzi, J.E. 1957a ; Celarier, R.P. 1958a,b ; Pritchard, A.J. 1965 ; Reddi, V.D. 1970

bicolor (Linn.) Moench

- 20 Endrizzi, J.E. 1957a ; Celarier, R.P. 1958b ; Magoon, M.L. *et al.* 1964 ; Sadasivaiah, R.S. & Magoon, M.L. 1965 ; Busey, P. 1971
- 20, 40 Gupta, S.C. *et al.* 1976
- 40 Lee, K.C. *et al.* 1974

(*bicolor* 2n=40 × *Saccharum officinarum* 2n=c.112) × *bicolor* 2n=40

- 44-50 de Wet, J.M.J. *et al.* 1976

(*bicolor* 2n=40 × *Saccharum officinarum* 2n=c.112) × *bicolor* 2n=20

- 48 de Wet, J.M.J. *et al.* 1976

caudatum (Hack.) Stapf

- 20 Huskins, C.L. & Smith, S.G. 1932 ; Sharma, A.K. & Bhattacharjee, D. 1957a ; Celarier, R.P. 1958b ; Magoon, M.L. *et al.* 1961 ; Sadasivaiah, R.S. & Magoon, M.L. 1965

ceruum Host

- 20 Huskins, C.L. & Smith, S.G. 1932, 1934 ; Celarier, R.P. 1958b ; Sadasivaiah, R.S. & Magoon, M.L. 1966 ; Magoon, M.L. *et al.* 1967b

var. *orbiculatum* Snowden

- 20 Magoon, M.L. *et al.* 1967c

conspicuum Snowden

- 20 Celarier, R.P. 1958b ; Magoon, M.L. & Ramanna, M.S. 1961b ; Sadasivaiah, R.S. & Magoon, M.L. 1965 ; Magoon, M.L. & Tayyab, M.A. 1968b

controversum (Steud.) Snowden

- 40 Celarier, R.P. 1958a ; Magoon, M.L. & Shambulingappa, K.G. 1962a

deccanense Stapf

- 10 Garber, B.D. 1950

644 POACEAE

dochna Snowden

- 20 Huskins, C.L. & Smith, S.G. 1934 ;
Sharma, A.K. & Bhattacharjee, D.
1957a ; Celarier, R.P. 1958b ;
Magoon, M.L. *et al.* 1961 ; Sadasivaiah,
R.S. & Magoon, M.L. 1965 ;
Ramalingam, R.S. & Raman, V.S.
1974

darra Stapf

- 20 Huskins, C.L. & Smith, S.G. 1932,
1934 ; Janaki Ammal, E.K. 1941 ;
Sharma, A.K. & Bhattacharjee, D.
1957a ; Celarier, R.P. 1958b ;
Magoon, M.L. & Ramanna, M.S.
1961b ; Sadasivaiah, R.S. & Magoon,
M.L. 1965

var. *medicora*

- 20 Magoon, M.L. *et al.* 1967c

halapense (Linn.) Pers.

- 18 Bir, S.S., Gill, B.S. & Kanta, S.
1980
20 Magoon, M.L. *et al.* 1964 ; Raman,
V.S. *et al.* 1965 ; Ramalingam, R.S.
& Raman, V.S. 1974 ; Christopher,
J. 1978
20+4-6B Raman, V.S., Meenakshi, K. &
Thangam, M.S. 1976
20, 40 Krishnaswamy, N. & Raman, V.S.
1949 ; Krishnaswamy, N. 1951 ;
Faruqi, S.A. *et al.* 1979
40 Huskins, C.L. & Smith, S.G. 1932,
1934 ; Longley, A.E. 1932 ; Karper,
R.E. & Chisholm, A.T. 1936 ;
Janaki Ammal, E.K. 1941 ; Garber,
E.D. 1944 ; Delay, C. 1947 ; Heiser,
C.B. & Whitaker, T.W. 1948 ; Gould,
F.W. 1956 ; Endrizzi, J.E. 1957a ;
Sharma, A.K. & Bhattacharjee, D.
1957a, b ; Sindho, A.N.R. 1967 ;
Gould, F.W. 1968 ; Mehra, P.N. *et al.*
1968 ; Reddi, V.D. 1970 ; Gupta,
P.K. 1971 ; Gupta, P.K. & Yashvir
1971 ; Pohl, R.W. & Davidse, G.
1971 ; Mehra, P.N. & Remanandan,
P. 1973b ; Muniyamma *et al.* 1976
40-43 Fernandez, A. & Quisros, M. 1969

Andropogon halapensis (Linn.) Brot.

- 20 Kattermano, G. 1930 ; Nakajima, G.
1930
40 Avdulov, N.P. (Fedorov)

halapense × *subglabrescens*

- 20+4-10B Raman, V.S., Meenakshi, K. &
Thangam, M.S. 1976

leioladum (Hack.) C.E. Hubb.

- 20 Garber, E.D. 1950, 1954

membranaceum Chiov.

- 20 Huskins, C.L. & Smith, S.G. 1932 ;
Sharma, A.K. & Bhattacharjee, D.
1957a ; Celarier, R.P. 1958b ; Sadasivaiah,
R.S. & Magoon, M.L. 1966 ;
Magoon, M.L. *et al.* 1967b ; Magoon,
M.L. & Tayyab, M.A. 1968b

papyrascens Stapf

- 20 Huskins, C.L. & Smith, S.G. 1932

millaceum (Roxb.) Snowden

- 40 Celarier, R.P. 1958a, b ; Magoon,
M.L. & Shambulingappa, K.G.
1962a ; Reddi, V.D. 1970

milliforme (Hack.) Snowden

- 20 Sadasivaiah, R.S. & Magoon, M.L.
1966 ; Magoon, M.L. *et al.* 1967b ;
Magoon, M.L. & Tayyab, M.A.
1968b

neruosum Bess. ex Schult.

- 20 Sharma, A.K. & Bhattacharjee, D.
1957a ; Celarier, R.P. 1958b ;
Magoon, M.L. & Ramanna, M.S.
1961a ; Magoon, M.L. & Shambulingappa,
K.G. 1962a, b ; Sadasivaiah,
R.S. & Magoon, M.L. 1965 ;
Magoon, M.L. *et al.* 1967b

nitidum (Vahl) Pers.

- 10 Raman, V.S. & Krishnaswami, D.
1960 ; Chen, C.C. & Hsu, C.C. 1962 ;
Nirula, S. 1964
10, 20 Krishnaswamy, N. *et al.* 1956 ;
Celarier, R.P. 1958b ; Magoon, M.L.
& Tayyab, M.A. 1968a
10+1B Wu, T.P. 1978
20 Garber, E.D. 1950 ; Krishnaswamy,
N. 1951 ; Tateoka, T. 1954

propinquum (Kunth) Hitchc.

- 20 Magoon, M.L. *et al.* 1967a
20, 21 Gould, F.W. & Soderstrom, T.R.
1974

purpureo-sericeum Aschers. & Schweinf.

- 10 Huskins, C.L. & Smith, S.G. 1932, 1934; Garber, E.D. 1950; Krishnaswamy, N. 1951; Sharma, A.K. & Bhattacharjee, D. 1957a; Celarier, R.P. 1958b; Nirula, S. 1964; Wu, T.P. & Pi, C.P. 1968; Wu, T.-P. 1971
- 10, 10+1
- 6B Janaki Ammal, E.K. 1940b; Darlington, C.D. & Thomas, P.T. 1941
- 20 Garber, E.D. 1954; Raman, V.S. *et al.* 1965
- 40 Longley, A.E. 1932

roxburghii Stapf

- 20 Huskins, C.L. & Smith, S.G. 1932; Sharma, A.K. & Bhattacharjee, D. 1957a; Magoon, M.L. & Ramanna, M.S. 1961a; Magoon, M.L. & Tayyab, M.A. 1968b

VRI. ~~maurum~~

- 20 Magoon, M.L. *et al.* 1967c

splendidum (Hack.) Snowden

- 20 Sadasivaiah, R.S. & Magoon, M.L. 1966; Magoon, M.L. & Tayyab, M.A. 1968b

stapfii Fischer

- 20 Krishnaswamy, N. & Ayyangar, R. 1940; Krishnaswamy, N. 1951

subglabrescens Schweinf. & Aschers.

- 20 Huskins, C.L. & Smith, S.G. 1934; Venkateswarlu, J. & Reddi, V.R. 1956; Sharma, A.K. & Bhattacharjee, D. 1957a; Celarier, R.P. 1958b; Raman, V.S. *et al.* 1965; Magoon, M.L. *et al.* 1967b; Raman, V.S. *et al.* 1976

subglabrescens × *halipense*

- 20 Ramalingam, R.S. & Raman, V.S. 1974

verticilliflorum (Steud.) Stapf

- 20 Longley, A.E. 1932; Karper, R.E. & Chisholm, A.T. 1936; Endrizzi, J.E. 1957a; Sharma, A.K. & Bhattacharjee, D. 1957a; Celarier, R.P. 1958b; Magoon, M.L. *et al.* 1961, 1967b;

Magoon, M.L. & Tayyab, M.A. 1968b

20+1B Huskins, C.L. & Smith, S.G. 1934

vulgare Pers.

- 20 Kuwada, Y. 1925; Karper, R.E. & Chisholm, A.T. 1936; Garber, E.D. 1944; Delay, C. 1947; Endrizzi, J.E. & Morgan, D.T. 1955; Endrizzi, J.E. 1957a; Sharma, A.K. & Bhattacharjee, D. 1957a; Magoon, M.L. & Ramanna, M.S. 1961a; Magoon, M.L. & Shambulingappa, K.G. 1962a, b; Nirula, S. 1964; Magoon, M.L. *et al.* 1967a, b; Mehra, P.N. *et al.* 1968
- 21 Venkateswarlu, J. & Reddi, V.R. 1968

cv. 'IS 3122'

20, 40 Rao, E.V.V.R. & Reddi, V.R. 1977

Sphaerocaryum Nees ex Hook. f.

1; India to South China and Formosa, Malay Peninsula and Banka. Manipur and Assam Hills, and Bangla Desh and Sri Lanka.

melaccense (Trin.) Pilger

- 18 Chen, C.C. & Hsu, C.C. 1962; Mehra, P.N. & Sood, O.P. 1974b

spinifex Linn.

3; East Asia, Indo-Malesia, Australia and Pacific. 1; sandy coasts of India, and Sri Lanka.

litoreum (Burm. f.) Merr.

- 18 Tateoka, T. 1959b; Hsu, C.-C. 1971; Ismail, F.-A. 1971; Gould, F.W. & Soderstrom, T.R. 1974; Abraham, A. *et al.* 1976; Christopher, J. & Abraham, A. 1976; Muniyamma *et al.* 1976

Spodiopogon Trin.

10; Asia. 3; temperate Himalaya, Assam Hills and Western and Southern India.

ambus Hack.

- 20 Mehra, P.N. & Sharma, M.L. 1972, 1975a

rhizophorus (Steud.) Voigt.*

- 20 Shanthamma, C. 1976

rhizophorus (Steud.) Pilger

- 20 Christopher, J. 1978

Sporobolus R. Br.

About 150; tropical and warm temperate. 19; many widely distributed throughout India, and Nepal, Pakistan and Sri Lanka a few introduced.

africanus (Poir.) Robyns & Toura.

- 36 Singh, D.N. & Godward, M.B.E. 1963

alroides (Torr.) Torr.

- c.80 Gould, F.W. 1966
c.90 Gould, F.W. 1960
108 Brown, W.V. 1951
126 Stebbins, G.L. & Löve, R.M. 1941

coromandelianus (Retz.) Kunth

- 24 Christopher, J. & Abraham, A. 1974
36 Narayan, K.N. & Muniyamma, M. 1972

diandrus (Retz.) P. Beauv.

- 24 Larsen, K. 1963b; Gupta, P.K. 1971; Gupta, P.K. & Yashvir 1971; Christopher, J. & Abraham, A. 1974; Gould, F.W. & Soderstrom, T.R. 1974; Mehra, P.N. & Sharma, M.L. 1975d, 1977; Sarkar, A.K. *et al.* 1976
36 Avdulov, N.P. (Fedorov)
54 Mehra, P.N. *et al.* 1968

fertilis (Steud.) Clayton

- 24, 48 Gould, F.W. & Soderstrom, T.R. 1974
36, 48 Mehra, P.N. & Sharma, M.L. 1975d
48 Mehra, P.N. & Sharma, M.L. 1972

umbriatus Nees

- 18 Moffett, A.A. & Hurcombe, R. 1949

- 18, 36 de Wet, J.M.J. 1958a
36 de Wet, J.M.J. & Anderson, L.J. 1956
34 Sharma, M.L. & Sharma, K. 1978, 1979

indicus (Linn.) R. Br.

- 18 Mehra, P.N. *et al.* 1968
18, 36 Avdulov, N.P. (Fedorov)
c.24 Gould, F.W. 1966
24 Gould, F.W. & Soderstrom, T.R. 1967
36 Tateoka, T. 1962a; Davidse, G. & Pohl, R.W. 1972b
40, 48 Christopher, J. & Abraham, A. 1974
48 Mehra, P.N. & Kalia, V. 1974

marginatus Hochst.

- 18, 20 Baquar, S.R. & Saeed, M. 1969
36 Mehra, P.N. *et al.* 1968

piliferus (Trin.) Kuoth

- 36 Mehra, P.N. & Sharma, M.L. 1975f

tenuisilvus (Schrank) O. Kuntze

- 12 Tateoka, T. 1965c; Davidse, G. & Pohl, R.W. 1972b; Dujardin, M. 1978
40 Hunter, A.W.S. 1934

tremulus (Willd.) Kunth

- 20 Janaki Ammal, E.K. (D. 1945); Mehra, P.N. *et al.* 1968
20, 48 Gould, F.W. & Soderstrom, T.R. 1974

virginicus (Linn.) Kunth

- 18 Brown, W.V. 1950
20 Gould, F.W. 1968; Davidse, G. & Pohl, R.W. 1972b; Dujardin, M. 1978
c.30 Gould, F.W. & Soderstrom, T.R. 1970
30 de Wet, J.M.J. 1960a

wallichii Muoño ex Trin.

- 24 Janaki Ammal, E.K. (D. 1945)
c.40 Gould, F.W. & Soderstrom, T.R. 1974

*The combination *Spodopogon rhizophorus* was made by Pilger (DFP1 : 161).

Stenotaphrum Trin.

7 ; tropics and subtropics. 1 ; plains of India.

dimidiatum (Linn.) Brongn.

- 18 Delay, J. 1971b
36 Sauer, J.D. 1972 ; Gould, F.W. & Soderstrom, T.R. 1974 ; Christopher, J. & Abraham, A. 1976
56 Sarkar, A.K., Chakraverty, M. *et al.* 1980

glabrum Trin.

- 36 Raman, V.S. *et al.* 1959a

Stipa Linn.

300 ; tropics and subtropics. 20 ; chiefly in Himalaya and North Western India, and Pakistan.

capensis Thunb.

- 36 Fernandez, A. & Queiroz, M. 1969 ; Gould, F.W. 1970 ; Dahlgren, R. *et al.* 1971

capillata Linn.

- 44 Avdulov, N.P. (Fedorov) ; Delay, C. 1947 ; Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov) ; Tarnavski, I.T. 1948 ; Skalinska, M. *et al.* 1968

caucasicus Schmalh.

- 44 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)

jacquemontii Jaub. & Spach

- 24 Mehra, P.N. & Sharma, M.L. 1975d

mongolica Turcz. ex Trin.*Ptilagrostis mongolica* (Turcz.) Griseb.

- 22 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)

orientalis Trin.

- 36 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)

sibirica (Linn.) Lam.

- 22, 23 Mesiček, J. & Sojak, J. 1972

- 24 Avdulov, N.P. (Fedorov) ; Love, R.M. (Myers, W.M. 1947)

splendens Trin.

- 48 Love, R. M. (Myers, W.M. 1947)

Loxagrostis splendens (Trin.) Kunth

- 42 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)

Streptogyna P. Beauv.

2 ; 1 in Mexico to tropical South America, 1 in tropical Africa, Southern India and Sri Lanka.

crinita P. Beauv.

- 24 Tateoka, T. 1958b, 1965a ; Veyret, Y. 1958 ; Kammacher, P. *et al.* 1971 ; Dujardin, M. 1978

Tetrapogon Desf.

5-6 ; Mediterranean to India, tropical and South Africa. 2 ; North Western and Southern India.

tenellus (Roxb.) Chiov.

- 18 Singh, D.N. & Godward, M.B.E. 1960

villosus Desf.

- 20 Borgen, L. 1970

Chloris villosa (Desf.) Pers.

- 10 Chopanov, P. & Yurtsev, V.N. 1973

Thamnochloa Munro

5 ; East Asia. 4 ; Himalaya (up to 3,660 m).

aristatus E.G. Camus

- 48 Janaki Ammal, E.K. 1959

Arundinaria aristata Gamble

- 48 Mehra, P.N. & Sharma, M.L. 1972, 1975e

falconeri Hook. f.

- 48 Janaki Ammal, E.K. 1959

648 POACEAE

spathiflorus Munro

48 Janaki Ammal, E.K. 1959

Thamnostochloa C.E. Hubb.

6; North Eastern India, South East Asia to Formosa, Philippine Islands, Marianne and Caroline Islands, Moluccas and North Australia and Queensland. 1; North Eastern India.

cochinchinensis (Lour.) C.E. Hubb.

36 Chen, C.C. & Hsu, C.C. 1962

Thelepogon Roth ex Roem. & Schult.

1; Abyssinia to India. Western, Central and Southern India.

elegans Roth ex Roem. & Schult.

8, 10, 12,

16 Sisodia, K.P.S. 1970c

10 Rao, T.N.V.R. 1962; Sindhe, A.N.R. 1967; Sindhe, A.N.R. *et al.* 1975; Sisodia, K.P.S. 1970b

10, 20, 40,

80 Ganesh, D. 1968

Themeda Forsk.

About 30; warmer parts of Africa and Asia. 19; chiefly in Himalaya, and Nepal, Bhutan and Sri Lanka.

anthera (Nees) Hack.

20 Mehra, P.N. & Remanandan, P. 1973b; Mehra, P.N. & Sharma, M.L. 1973

20, 22 Mehra, K.L. 1955a; Sisodia, K.P.S. 1971a

20, 60 Mehra, P.N. & Sharma, M.L. 1975a

60 Mehra, P.N. *et al.* 1968; Sharma, M.L. & Sharma, K. 1979

var. *glabrescens*

20+1f, 26,

40 Faruqi, S.A. *et al.* 1979

var. *hirauca*

20, 20+1f,

22, 60 Faruqi, S.A. *et al.* 1979

var. *submarginata*

20, 20+1f,

22, 60 Faruqi, S.A. *et al.* 1979

arguens Hack.

20 Avdulov, N.P. (Fedorov); Pritchard, A.J. & Gould, K.F. 1964

arundinacea (Roxb.) Ridley

22, 40 Mehra, P.N. & Kalia, V. 1974

40 Mehra, P.N. & Sharma, M.L. 1973, 1975a

60 Singh, D.N. & Godward, M.H.B. 1960; Larsen, K. 1963b

tymbaria Hack.

20 Raman, V.S. *et al.* 1959a; Hayman, D.L. 1960; Muniyamma, M. 1968, 1969; Muniyamma, M. & Narayan, K.N. 1971; Christopher, J. 1978

bookeri (Griseb.) A. Camus

20 Mehra, P.N. & Kalia, V. 1976

intermedia Dur. & Jack.*

40 Mehra, P.N. & Kalia, V. 1974

luxa (Anders.) Camb.

20 Christopher, J. 1978

quadrivalvis (Linn.) O. Kuntze

40 Mehra, K.L. 1955a; Hayman, D.L. 1960; Pritchard, A.J. & Gould, K.F. 1964

60 Khosla, P.K. & Mehra, P.N. 1973

80 Christopher, J. 1978

subsericans (Nees) Ridley

40 Mehra, P.N. & Kalia, V. 1975

54 Mehra, P.N. & Kalia, V. 1974

tremula (Nees ex Steud.) Hack.

20 Gould, F.W. & Soderstrom, T.R. 1974; Christopher, J. 1978

80 Mehra, K.L. 1955a; Sisodia, K.P.S. 1971a

*The combination *Themeda intermedia* should be attributed to Bor.

triandra Forsk.

- 20 Christopher, J. 1978
 20-71 Gluckmann (Pienaar, R. de V. 1955)
 20, 30, 40,
 50, 60 de Wet, J.M.J. 1960b
 20, 80 Raman, V.S. *et al.* 1959a
 30 Tateoka, T. 1957 ; Larsen, K. 1963b
 40 Mehra, P.N. & Sharma, M.L. 1975a
 40, 60 Tateoka, T. 1965a
 60 Khosla, P.K. & Mehra, P.N. 1973 ;
 Gould, F.W. & Soderstrom, T.R.
 1974 ; Sharma, M.L. & Sharma, K.
 1979
 80 Shanthamma, C. 1976

forskali Hack.

- 60 Avdulov, N.P. (Fedorov)

villosa (Poir.) A. Camus

- 32 Gould, F.W. & Soderstrom, T.R.
 1974

villosa Dur. & Jack.*

- 40 Mehra, P.N. & Kalia V. 1974

Thuarea Pers.

2 ; 1 in Madagascar, 1 in Indo-Malesia,
 on the coast. 1 ; Laccadive and Nicobar
 Islands.

laxolata R. Br.

- 18 Chen, C. & Hsu, C. 1961 ; Tateoka,
 T. 1965c

Thyrsia Stapf

3-4 ; tropical Africa, North Eastern
 India and South East Asia. 1 ; Assam.

zea (Clarke) Stapf

- 54 Mehra, P.N. & Kalia, V. 1975

Thysanolaena Nees

1 ; tropical Asia. 1 ; throughout India.

maxima (Roxb.) O. Kuntze

- 24 Larsen, K. 1963b ; Tateoka, T. 1963 ;
 Christopher, J. & Abraham, A. 1971 ;
 Sarkar, A.K., Datta, N. *et al.* 1976
 44 Mehra, P.N. & Sunder, S. 1969

Trachys Pers.

1 ; Southern India, Burma and Sri
 Lanka, especially coasts.

maricata (Linn.) Pers.

- 36 Muniyamma, M. 1968 ; Muniyama,
 M. & Narayan, K.N. 1975
 40 Gould, F.W. & Soderstrom, T.R.
 1974

Tragus Hall.

6 ; warm Africa, 1 pantropical. 1 ;
 plains of India, and Sri Lanka.

biflorus Schult.

- 20 Mehra, P.N. *et al.* 1968 ; Narayan,
 K.N. & Shanthamma, C. 1968 ;
 Malik, C.P. & Mary, T.N. 1970b ;
 Christopher, J. & Abraham, A. 1974 ;
 Shanthamma, C. & Narayan, K.N.
 1976, 1976-1977 ; Sharma, M.L. &
 Sharma, K. 1979

Trichloris Fourn. ex Benth.

2 ; America. 2 ; introduced.

crinita (Lag.) Parodi

- 40 Bowden, W.M. & Scott, H.A. 1962

pluriflora Fourn.

- 60 Brown, W.V. 1951
 80 Gould, F.W. 1968

Tricholaena Schrad.

8 ; Canaries, Mediterranean, Africa

*The combination *Themeda villosa* was made by A. Camus.

Madagascar. 2; North Western India, and Pakistan.

teneriffae (Linn. f.) Link

- 36 Larsen, K. 1960; Borgen, L. 1970; Gould, P.W. 1970

Panicum teneriffae R. Br.

- 40 Krishnaswamy, N. 1941

Trilobacinae Schenck ex Henr.

1; Western Peninsular India.

cookei (Stapf) Schenck ex Henr.

- 20 Sapre, A.B. 1977c, 1978b; Venkateswarlu, J. et al. 1977

Triplopogon Bor

1; Western Peninsular India.

ramosissimus (Hack.) Bor

- Setima spathiflorum* (Hook. f.) Blatt. & McCann
20 Jasbi, A.B. et al. 1959

Tripogon Roem. & Schult.

20; tropical Africa and Asia. 12; mostly in Western and Southern India, a few in Himalaya, and Bhutan and Sri Lanka.

bromoides Roem. & Schult.

- 20 Christopher, J. & Abraham, A. 1974; Mehra, P.N. & Kalia, V. 1976

altiformis Nees ex Steud.

- 20 Mehra, P.N. & Sharma, M.L. 1972, 1975d; Christopher, J. & Abraham, A. 1974

Jacquemontii Stapf

- 20 Mehra, P.N. & Sharma, M.L. 1977

trifidus Munro ex Stapf

- 20 Mehra, P.N. & Sharma, M.L. 1972
40 Mehra, P.N. & Sharma, M.L. 1975d
58 Mehra, P.N. & Kalia, V. 1975
60 Mehra, P.N. & Sood, O.P. 1974b

Tripsacum Linn.

7; warm America. 2; introduced into India, and Sri Lanka.

dactyloides Linn.

- 18 Longley, A.E. 1937
36 Hunter, A.W.S. 1934; Anand, S.C. & Leng, E.R. 1964; Chandravadana, P. et al. 1971
36, 45, 54, 72, 90, 108 Farquharson, L.I. 1955
36, 54, 72 Newell, C.A. & de Wet, J.M.J. 1974
36, 72 Reeves, R.G. & Mangelsdorf, P.C. 1935; Mangelsdorf, P.C. & Reeves, R.G. 1939
70 Longley, A.E. 1924a
72 Avdulov, N.P. (Fedorov); Randolph, L.F. 1970

laxum Nash

- 54 Ting, Y.C. 1960
64 Christopher, J. 1978
c.70 Longley, A.E. 1924a
72 Reeves, R.G. & Mangelsdorf, P.C. 1935; Mangelsdorf, P.C. & Reeves, R.G. 1939; Randolph, L.F. 1970; Pohl, R.W. & Davidse, G. 1971

Trisetum Pers.

75; North and South temperate. 6; Himalaya (up to 6,000 m), 1 in banks of the Ganges.

flavescens (Linn.) P. Beauv.

- 28 Hubbard, C.E. 1954; Bowden, W.M. 1960b

var. *pratense* (Pers.) Beck.

- 24 Avdulov, N.P. (Fedorov)

pratense Pers.

- 28 Pogosyan, A.I. 1974

Avena flavescens Linn.

- 28 Nakajima, G. 1930

spicatum (Linn.) Richt.

- 14 Flovik, K. 1938, 1940; Löve, A. & Löve, D. 1944b, 1956b; Stebbins (Myers, W.M. 1947); Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov);

- Holmen, K. 1952 ; Löve, A. 1954b ; Tateoka, T. 1954 ; Sokolovskaya, A.P. (Fedorov) ; Jørgensen, C.A. *et al.* 1958 ; Chen, C.C. & Hsu, C.C. 1962 ; Zhukova, P.G. (Fedorov)
- 14, 28 Beaman, J.H. *et al.* 1962
- 28 Tateoka, T. 1953 ; Bowden, W.M. 1960b ; Mosquin, T. & Hayley, D.E. 1966 ; Knaben, G. & Engelskjøn, T. 1967 ; Zhukova, P.G. 1967a, 1969 ; Johnson, A.W. & Packer, J.G. 1968 ; Mehra, P.N. & Sunder, S. 1969 ; Mulligan, G.A. & Porsild, A.E. 1969 ; Zhukova, P.G. & Tikhonova, A.D. 1971, 1973 ; Zhukova, P.G. *et al.* 1973 ; Mehra, P.N. & Sharma, M.L. 1975c, 1977a ; Mehra, P.N. & Sood, O.P. 1975 ; Reeder, J.R. 1977
- 28, 42 Böcher, T.W. & Larsen, K. 1950 ; Böcher, T.W. 1959 ; Morrison, M.E.S. 1959a, b ; Hedberg, O. 1967
- 42 Davidse, G. & Pohl, R.W. 1972b
- virescens* (Regel) B. Fedtsch.
- 28 Sokolovskaya, A.P. & Strelkova, O.S. (Fedorov)
- Triticum** Linn.
- 20 ; Europe, Mediterranean and West Asia. 8 ; Assam, Central India and Punjab, some cultivated a few introduced.
- seotivum* Linn.
- 21 (somatic haploid) Craig, J.L. 1974
- 34 Rao, V.R. & Murthy, B.R. 1972
- 35-41 Shigenaga, S. 1976
- 41 Romero, C. & Lacadena, J.R. 1980
- 41, 42 Singh, D. & Joshi, B.C. 1974
- 42 Kihara, H. 1919a ; Nikolaeva, A.G. (Fedorov) ; Sachs, L. 1952, 1953b ; Pai, R.A. *et al.* 1961 ; Bowden, W.M. 1966 ; Chapman, V. & Riley, R. 1966 ; Driscoll, C.J. & Bielig, L.N. 1968 ; Shchapova, A.I. 1968 ; Giorgi, B. & Bozzini, A. 1970 ; Kao, K.N. *et al.* 1970 ; Larson, R. & Atkinson, T.G. 1970 ; Ikushima, T. 1972b ; Das, P.K. 1973 ; Dvořák, *et al.* 1973 ; Gill, B.S. & Kimber, G. 1974 ; Mujeeb, K.A. *et al.* 1978 ; Sharma, N.C. & Gupta, P.K. 1980
- 42, 84 (24-86, 38-42) Asami, H. *et al.* 1975
- vulgare* Vill.
- 42 Sakamura, T. 1918 ; Sax, K. 1918, 1921 ; Nikolaeva, A.G. (Fedorov) ; Kihara, H. 1924, 1959a ; Aase, H.C. & Powers, L.R. 1926 ; Vavilov, N. (Fedorov) ; Thompson, W.P. 1926a, b, 1928 ; Winge, O. 1926a, b ; Sapèhin, A.A. (Fedorov) ; Kagawa, F. 1928, 1929b ; Watkins, A.E. 1928, 1930 ; Bleier, H. 1930 ; Delaunay, L.N. (Fedorov) ; Longley, A.E. & Sando, W.J. 1930 ; Sarana, M. (Fedorov) ; Lewitsky, G.A. (Fedorov) ; Plotnikova, T.W. (Fedorov) ; Sapèhin, L.A. (Fedorov) ; Senyainova-Korisagina, M.W. (Fedorov) ; Lebedev, W.N. (Fedorov) ; Hasegawa, N. 1934 ; Wakar, B.A. (Fedorov) ; Vasilev, B.I. & Kamenik, I.A. (Fedorov) ; Afanassjeva, A.S. (Fedorov) ; Kostoff, D. 1940 ; Cámara, A. 1943 ; Monabde, V.L. (Fedorov) ; Sears, E.R. 1948 ; Sachs, L. 1953b ; Watanabe, Y. & Mukado, K. 1955 ; Riley, R. *et al.* 1958 ; Kihara, H. *et al.* 1965
- cv. Hira
- 42 Sharma, N.C. 1979
- seotivum* × *Agropyron glaucum* 2n=42
- 26, 28, 56 Chistyakova, N.V. 1972
- seotivum* × *Avena sativa*
- 41, 42 Kruse, A. 1969
- dicoccum* Schrank*
- 28 Sakamura, T. 1918 ; Sax, K. 1921 ; Nikolaeva, A.G. (Fedorov) ; Kihara, H. 1924 ; Aase, H.C. & Powers, L.R. 1926 ; Percival, J. 1926 ; Kagawa, F. 1927, 1929b ; Watkins, A.E. 1928 ; Longley, A.E. & Sando, W.J. 1930 ; Vavilov, N. *et al.* (Fedorov) ; Darlington, C.D. 1931b ; Lewitsky,

*The combination *Triticum dicoccum* was made by Schübler.

G.A. (Fedorov); Wakar, B.A. (Fedorov); Efeikin, A.K. & Vasilev, B.I. (Fedorov); Hosono, S. 1935; Vavilov, N.I. (Fedorov); Camara, A. & Coutinho, L.A. 1939; Kostoff, D. 1940; Camara, A. 1943; McFadden, E.S. & Sears, E.R. 1946; Bhatia, G.S. 1938; Sears, E.R. 1948; Sachs, L. 1952, 1953a, b; Pai, R.A. *et al.* 1961; Patil, V.P. & Deodikar, G.B. 1967; Kimata, M. & Sakamoto, S. 1971

dicoccum Schubler

28 Giorgi, B. & Bozzini, A. 1969

durum Desf.

14(somatic

haploid) Lacadena, J.-R. & Ramos, A. 1968
28 Sakamura, T. 1918; Nikolaeva, A.G. (Fedorov); Kihara, H. 1924; Aase, H.C. & Powers, L.R. 1926; Vavilov, N.I. (Fedorov); Percival, J. 1926; Kagawa, F. 1928, 1929a; Sapegin, A.A. (Fedorov); Watkins, A.E. 1928; Sarana, M. (Fedorov); Delaunay, L.N. (Fedorov); Lewitsky, G.A. (Fedorov); Hasegawa, N. 1934; Wakar, B.A. (Fedorov); Hosono, S. 1935; Sipkow, G.P. (Fedorov); Sorokina, O.N. (Fedorov); Camara, A. & Coutinho, L.A. 1939; Zhebrak, A.R. (Fedorov); Kostoff, D. 1940; Poddubnaja-Arnoldi, W.A. (Fedorov); Sears, E.R. 1948; Sachs, L. 1952; Matsumura, S. 1964; Coucoli, H.D. & Skorda, E.A. 1966; Kihara, H. *et al.* 1965; Patil, V.P. & Deodikar, G.B. 1967; Nuñez, O. 1968; Patil, V.P. 1968; Giorgi, B. & Bozzini, A. 1969; Kimata, M. & Sakamoto, S. 1971

28-35 Blanco, A. *et al.* 1978

30 Tseunewaki, K. 1964

36 Morrison, J.W. & Rajbathy, T. 1960a

durum × **aestivum** var. Chinese Spring

34+L

35+1 Blanco, A. *et al.* 1977

monococcum Linn.

14 Sakamura, T. 1918; Sax, K. 1918, 1921; Nikolaeva, A.G. (Fedorov); Kihara, H. 1924; Aase, H.C. &

Powers, L.R. 1926; Vavilov, N. (Fedorov); Percival, J. 1926; Thompson, W.P. 1926a, b; Kagawa, F. 1927, 1929b; Melburn, M.C. & Thompson, W.P. 1927; Longley, A.E. & Sando, W.J. 1930; Chizaki, Y. 1934; Hasegawa, N. 1934; Ellenhorn, J.H. (Fedorov); Zhebrak, A.R. (Fedorov); Araratyan, A.G. (Fedorov); Kostoff, D. 1940; Monabde, V.L. (Fedorov); Delay, C. 1947; Sears, E.R. 1948; Sachs, L. 1953a; Riley, R. *et al.* 1958; Pai, R.A. *et al.* 1961; Upadhy, M.D. & Swaminathan, M.S. 1963; Matsumura, S. 1964; Bowden, W.M. 1966; Coucoli, H.D. & Skorda, E.A. 1966; Patil, V.P. & Deodikar, G.B. 1967; Kao, K.N. *et al.* 1970; Gill, B.S. & Kimber, G. 1974; Mujeeb, K.A. *et al.* 1978

polonicum Linn.

28 Sakamura, T. 1918; Sax, K. 1918, 1921; Nikolaeva, A.G. (Fedorov); Vavilov, N. (Fedorov); Percival, J. 1926; Kagawa, F. 1927, 1929b; Watkins, A.E. 1928; Longley, A.E. & Sando, W.J. 1930; Vavilov, N. *et al.* (Fedorov); Lewitsky, G.A. (Fedorov); Moriya, M. 1932; Hasegawa, N. 1934; Hosono, S. 1935; Camara, A. & Coutinho, L.A. 1939; Lewitsky, G.A. *et al.* (Fedorov); Kostoff, D. 1940; Sears, E.R. 1948; Sachs, L. 1953a, b; Kihara, H. *et al.* 1965; Patil, V.P. & Deodikar, G.B. 1967; Kimata, M. & Sakamoto, S. 1971

36 Dorsey, E. 1936

spelta Linn.

42 Sakamura, T. 1918; Sax, K. 1918, 1921; Kihara, H. 1924; Aase, H.C. & Powers, L.R. 1926; Vavilov, N. (Fedorov); Percival, J. 1926; Melburn, M.C. & Thompson, W.P. 1927; Watkins, A.E. 1928; Kagawa, F. 1929a; Longley, A.E. & Sando, W.J. 1930; Moriya, M. 1932; Kostoff, D. 1940; Sears, E.R. 1948; Sachs, L. 1953b; Watanabe, Y. & Mukade, K. 1955; Upadhy, M.D. & Swaminathan, M.S. 1963

sphaerococcum Percival

- 42 Nikolaeva, A.G. (Fedorov); Vavilov, N. (Fedorov); Percival, J. 1926; Watkins, A.E. 1928; Kostoff, D. 1940; Sears, E.R. 1948; Sachs, L. 1953b; Watanabe, Y. & Mukade, K. 1955

turgidum Linn.

- 28 Sakamura, T. 1918; Sax, K. 1918, 1921; Nikolaeva, A.G. (Fedorov); Kihara, H. 1924; Aase, H.C. & Powers, L.R. 1926; Vavilov, N. (Fedorov); Percival, J. 1926, 1936; Thompson, W.P. 1926a, b, 1931; Winge, Ö. 1926a; Watkins, A.E. 1928; Longley, A.E. & Sando, W.J. 1930; Lewitsky, G.A. (Fedorov); Berg, K.H. von 1934; Hasegawa, N. 1934; Hosono, S. 1935; Nakajima, G. 1937a; Kostoff, D. 1940; Sears, E.R. 1948; Sachs, L. 1952; Bell, G.D.H. & Sachs, L. 1953; Kihara, H. *et al.* 1963; Bowden, W.M. 1966; Patil, V.P. & Deodikar, G.B. 1967; Wagenaar, B.B. 1968a, b; Giorgi, B. & Bozzini, A. 1969; Humphries, C.J. *et al.* 1978; Mujeeb, K.A. *et al.* 1978
- 42 Müntzing, A. 1937b

Urochloa P. Beauv.

25; tropical Africa and Asia. 5; chiefly introduced, 1 throughout India.

bulbodes Stapf

- 36 Moffett, A.A. & Hurcombe, R. 1949

mansablcensis (Hack.) Dandy

- 28 Nath, J. & Swaminathan, M.S. 1957; Raman, V.S. *et al.* 1959b; Nath, J. *et al.* 1970; Sisodia, K.P.S. 1971b
- 30 de Wet, J.M.J. & Anderson, L.J. 1956
- 40 Pritchard, A.J. 1970
- 42 Moffett, A.A. & Hurcombe, R. 1949

panicoides P. Beauv.

- 30 de Wet, J.M.J. 1954b
- 32 Christopher, J. & Abraham, A. 1976
- 36 Mehra, P.N. *et al.* 1968; Narayan, K.N. & Muniyamma, M. 1969; Saxena, B.K. & Gupta, B.K. 1970
- 42 Moffett, A.A. & Hurcombe, R. 1949

- 46 Malik, C.P. & Mary, T.N. 1970b

- 48 Raman, V.S. *et al.* 1959b; Mitra, K. & Datta, N. 1967

var. pubescens (Kunth) Bor

- 36 Nath, J. *et al.* 1970
- 42 Malik, C.P. & Tripathi, R.C. 1970
- 48 Mehra, P.N. & Sharma, M.L. 1975b; Sharma, M.L. & Sharma, K. 1979

pullianus Stapf

- 28 Moffett, A.A. & Hurcombe, R. 1949; Tateoka, T. 1965a; Mehra, P.N. *et al.* 1968; Nath, J. *et al.* 1970; Sisodia, K.P.S. 1971b

trichopus (Hochst.) Stapf

- 14 Thomas (D. 1955)
- 26 Gould, F.W. 1960
- 30 de Wet, J.M.J. & Anderson, L.J. 1956
- 54 Khosla, P.K. & Mehra, P.N. 1973

Vetiveria Bory

10; tropical Africa, Asia and Australia. 2; Eastern Himalaya and South Western Peninsula, 1 throughout India, and Sri Lanka.

lawsonii (Hook. f.) Blatt. & McCann

- 20 Janaki Ammal, E.K. (D. 1955); Sindhe, A.N.R. 1967; Muniyamma *et al.* 1976
- 36 Shanthamma, C. & Narayan, K.N. 1976-1977

clavarioides (Linn.) Nash

- 20 Celanier, R.P. 1959; Mehra, K.L. *et al.* 1962; Larsen, K. 1963b; Mitra, K. & Datta, N. 1967; Mehra, P.N. *et al.* 1968; Saxena, B.K. & Gupta, B.K. 1970; Pohl, R.W. & Davidse, G. 1971; Sinha, R.R.P. & Jha, R.P. 1972; Mehra, P.N. & Remanandan, P. 1973b; Davidse, G. & Pohl, R.W. 1974; Gould, F.W. & Soderstrom, T.R. 1974; Shanthamma, C. *et al.* 1976; Sindhe, A.N.R. 1977; Christopher, J. 1978; Faruqi, S.A. *et al.* 1979

Vossia Wall. & Griff.

1; tropical and South-West Africa, and Burma. Bengal and Assam, and Bangla Desh.

cuspidata (Roxb.) Griff.

- 20 Mehra, P.N. & Kalra, V. 1976
40 Dujardin, M. 1978

Vulpia C.C. Gmel.

25-30; temperate, especially Mediterranean and Pacific, and North and South America. 3; Himalaya, North Western India and Southern India, 1 introduced.

megalura (Nutt.) Rydb.

- 14 Mehra, P.N. & Sunder, S. 1969
42 Cotton, R. & Stace, C.A. 1976
63 Singh, D.N. & Godward, M.B.E. 1963

myuros (Linn.) C.C. Gmel.var. *megalura* (Nutt.) Auquier

- 42 Auquier, P. & Renard, R. 1977

Festuca megalura Nutt.

- 42 Gould, F.W. 1960; Bowden, W.M. & Senn, H.A. 1962

myuros (Linn.) C.C. Gmel.

- 14 Avdulov, N.P. (Fedorov); Hubbard, C.E. 1954
42 Stählin, A. 1929; Litardière, R. de 1948a; Chopynov, P. & Yurtsev, V.N. 1973; Kozuharov, S.I. & Petrova, A.V. 1973; Cotton, R. & Stace, C.A. 1976

maralia (Kunth) Nees

- 14 Auquier, P. & Renard, R. 1977

Festuca myuros Linn.

- 14 Avdulov, N.P. (Fedorov)
42 Stählin, A. 1929; Tateoka, T. 1954; Taylor, R.L. & Mulligan, G.A. 1968

var. *myuros*

- 42 Auquier, P. & Renard, R. 1977

octoflora (Walt.) Rydb.*Festuca octoflora* Walt.

- 14 Gould, F.W. 1958; Bowden, W.M. & Senn, H.A. 1962

Zea Linn.

2; South and Central America, 1 cultivated in tropics and subtropics.

mays Linn.

10(somatic

haploid)

- Ford, L. 1970a, b, 1971; Majumdar, G. & Sarkar, K.R. 1974
19 Weber, D.F. 1978
20 Kuwada, Y. 1911, 1919, 1925; Longley, A.E. 1924a; Fisk, E.L. 1925, 1927; Koshuchow, Z.A. (Fedorov); Stadler, L.J. 1931; Hunter, A.W.S. 1934; Avdulov, N.P. (Fedorov); Grossman, A.M. (Fedorov); Mangelsdorf, P.C. & Reeves, R.G. 1939; Delay, C. 1947; Tanaka, R. 1961; Lima-de-Faria, A. & Sarveilla, P. 1962; Mehra, P.N. *et al.* 1968; Gillies, C.B. 1973; Maguire, M.P. 1976; Sarkar, K.R. *et al.* 1977
20, 20+3B Ward, J.E. 1980
20+1-7B Longley, A.E. 1927; Randolph, L.F. 1928; Darlington, C.D. & Upcott, M.B. 1941; Ono, T. & Suzuki, H. 1956; Kayano, H. (Fedorov)
20+2-12B Avdulov, N.P. (Fedorov)
20, > 20,
< 40, 40,
> 40 (in culture) Bolzan, R. 1978
20, 21, 22,
+1B Weber, D.F. 1969
20, 21, 22,
24 Kuwada, Y. 1915
20, 40 Das, L.D.V. 1970; Newell, C.A. & de Wet, J.M.J. 1973
22 Rakha, F.A. & Mousa, M. 1975a, b
27-42 Raicu, P. & Chirila, R. 1971
1-2B Suresh, M.R. *et al.* 1972
- mays* × *Saccharum officinarum*
52 Janaki Ammal, E.K. 1941
- mays* × *Tripsacum dactyloides* 2n = 72
20, 22 Stalker, H.T. *et al.* 1977
38, 46, 56,
82 Newell, C.A. & de Wet, J.M.J. 1973

(mays $2n=40 \times$ *Trispencum dactyloides* $2n=72$)

\times mays $2n=20$

20-22, 38,

48, 58 Petrov, D.F. *et al.* 1979

Zizania Gronov. *ex* Linn.

3 ; 1 North Eastern India, Burma and East Asia, 2 in North America.

caudiflora Hand.-Mazz.

latifolia Turcz.

30 Ramanujam, S. 1938

34 Hirayoshi, I. 1937 ; Chen, C.C. & Hsu, C.C. 1962

Zoysia Willd.

10 ; Mascarene Islands to New Zealand. 3 ; seashores of India, and Sri Lanka a few introduced.

japonica Steud.

40 Forbes, I. 1952 ; Tateoka, T. 1954

matrella (Linn.) Merr.

20 Gould, F.W. & Soderstrom, T.R. 1974

40 Forbes, I. 1952 ; Larsen, K. 1963b ; Christopher, J. & Abraham, A. 1974 ; Sindhe, A.N.R. & Narayan, K.N. 1976

tennifolia Willd.

40 Forbes, I. 1952 ; Chen, C.C. & Hsu, C.C. 1962

PONTEDERIACEAE Kunth

7/30 ; tropics. 2/3 ; throughout India, and Sri Lanka.

Eichhoruia Kunth

7 ; South East United States to Argentina and West Indies. 1 ; various parts of India.

crassipes (Mart.) Solms

32 Smith, W.R. 1898 ; Taylor, W.R. 1925 ; Delay, C. 1947 ; Heiser, C.B. & Whitaker, T.W. 1948 ; Sharma, A.K. & Talukdar, C. 1961 ; Briggs, B.G. 1966 ; Krishnappa, D.G. 1967, 1971 ; Dnyansagar, V.R. & Dharurkar, R.D. 1969 ; Ghosh, D.K. & Bhattacharya, G.N. 1981b

32 (30, 58) Banerjee, M. 1974

Monochoria C. Presl

3 ; North East Africa to Manchuria and Australia. 2 ; throughout India, and Sri Lanka.

hastata Solms

hastifolia Presl

28 Banerji, I. & Haldar, S. 1942 ; Majumdar, A. 1953 ; Sarker, A.K., Chakraverty, M. *et al.* 1980 ; Ghosh, D.K. & Bhattacharya, G.N. 1981b

28 (34, 40,

70, 76, 80,

82, 84) Banerjee, M. 1974

vaginalls Presl

26, 52 Ghosh, D.K. & Bhattacharya, G.N. 1981b

28 Hsu, C.-C. 1967

52 Morinaga, T. & Fukushima, H. 1931a ; Krishnappa, D.G. 1967, 1971 ; Mehra, P.N. & Pandita, T.K. 1978

40 Sharma, A. & Sarker, A.K. 1967-1968

636 PONTEDERIACEAE

var. *plantaginea* Solms-Laub.

52 Baserjee, M. 1974

var. *plumbaginea* Solms-Laub.

52 Sharma, A. & Sarkar, A.K. 1967-1968

POTAMOGETONACEAE Dum.

2/100 ; cosmopolitan. 1/12 ; chiefly in the plains of India, and Bhutan and Sri Lanka.

Potamogeton Linn.

About 100 ; cosmopolitan. 12 ; mostly in the plains (ascending up to 5,940 m in the Himalaya), and Bhutan and Sri Lanka.

crispus Linn.

26, 52 Ghosh, D.K. & Bhattacharya, G.N. 1980

36, 42, 52,

72, 78 Sharma, A.K. & Chatterjee, T. 1967
c.52 Palmgren, O. 1939 ; Scheerer, H. 1939
52 Harada, I. 1942a, b, 1956 ; Defay, C. 1947 ; Takusagawa, H. 1961 ; Hindáková, M. & Schwarzová, T. 1980

lucens Linn.

51 Palmgren, O. 1939

malinicus Miq.

52 Harada, I. 1942a, b, 1956 ; Takusagawa, H. 1961

natans Linn.

42 Stern, K.R. 1961
52 Palmgren, O. 1939 ; Harada, I. 1942a, b, 1956 ; Löve, A. & Löve, D. 1956b ; Takusagawa, H. 1961 ; Pogan (Skaliňská, M. *et al.* 1966)

nodosus Poir.

52 Taylor, R.L. & Mulligan, G.A. 1968

indicus Roxb.

42 Sharma, A.K. & Chatterjee, T. 1967

52 Ghosh, D.K. & Bhattacharya, G.N. 1980

pectinatus Linn.

a.78 Harada, I. 1942a, b, 1956
78 Scheerer, H. 1939 ; Palmgren, O. (Löve, A. & Löve, D. 1942b) ; Takusagawa, H. 1961 ; Bhat, B.K. *et al.* 1975

sup. *pectinatus*

78 Uhríková, A. & Feráková, V. 1978

perfoliatus Linn.

14 Takusagawa, H. 1939
26 Löve, A. 1954b
c.48 Wisniewska, B. 1931
48 Tischler, G. 1934
52 Palmgren, O. 1939 ; Scheerer, H. 1939 ; Harada, I. 1942a, b, 1956 ; Felföldy, L.J.M. 1947a ; Löve, A. & Löve, D. 1956b ; Takusagawa, H. 1961 ; Löve, A. & Ritchie, J.C. 1966

polygonifolius Pourr.

26 Palmgren, O. 1939
52 Takusagawa, H. 1961

oblongus Viv.

26 Palmgren, O. 1939 ; Fernandes, A. 1950

paullus Linn.

26 Palmgren, O. 1939 ; Harada, I. 1956 ; Löve, A. & Löve, D. 1956b ; Takusagawa, H. 1961

RUPPIACEAE (Kunth) Hutch.

1/2 ; temperate and subtropics. 1/1 ; throughout India, and Sri Lanka.

Ruppia Linn.

2 ; temperate and subtropics. 1 ;
throughout India, and Sri Lanka.

maritima Linn.

16 Graves, A.H. 1908 ; Titova, N.N.
(Fedorov) ; Wulff, H.D. 1937a

20 Reese, G. 1962a, b ; Taylor, R.L. &
Mulligan, G.A. 1968

20, 40 Tarnavski, I.T. 1948
40 Harada, I. 1956

rostellata Koch

16 Mürbeck, S. 1902 ; Sergueeff, M. 1907
c.40 Löve, A. & Löve, D. 1956b

RUSCACEAE Spreng.

3/9 ; West and Central Europe, and Mediterranean to Persia. 1/1 ; cultivated.

Ruscus Linn.

3 ; Madeira, West and Central Europe,
and Mediterranean to Persia. 1 ; culti-
vated.

aculeatus Linn.

36 Fernandes, A. 1929-1930, 1930

40 Nakajima, G. 1936 ; Saib, D. 1942 ;
Martinoli, G. 1951 ; Natarajan, G.
1979 ; Popova, M.T. & Čašbmedjiev,
I.V. 1978

SMILACACEAE Vent.

4/375 ; tropics and temperate. 2/25 ; chiefly in Eastern Himalaya, and Nepal, Bangla
Desh and Sri Lanka.

Smilax Linn.

About 350 ; tropics and subtropics. 24 ;
chiefly in Eastern Himalaya (up to 3,300 m),
and Nepal, Bangla Desh and Sri Lanka.

aspera Linn.

32 de Carvalho, M.L. 1948 ; Mehra,
P.N. & Malik, C.P. 1961c ; Marchi,
P. 1971b ; Mehra, P.N. & Sachdeva,
S.K. 1976a ; Natarajan, G. 1978

elegans Wall.

32 Mehra, P.N. & Sachdeva, S.K. 1971,
1976a

glaucophylla Klotz.*parvifolia* Wall.

28 Mehra, P.N. & Sachdeva, S.K. 1971

32 Mehra, P.N. & Sachdeva, S.K. 1976a

perfoliata Lour.*prolifera* Roxb.

26 Deshpande, B.D. 1955c

658 SMILACACEAE

32 Mehra, P.N. & Malik, C.P. 1961c
zeylanica Linn.
 30-48,
 32+4B,
 34+4-8B,
 36+5B Pal, A. & Sharma, A.K. 1976

macrophylla Roxb.

32 Sharma, A. & Sarkar, A.K. 1967
 1968

SPARGANIACEAE Schultz-Schultz.

1/20; North temperate, Australia and New Zealand. 2; North Western India and Eastern Himalaya.

Sparganium Linn.

20; North temperate, Australia and New Zealand. 2; North Western India and Eastern Himalaya.

Löve, D. 1948; Löve, A. 1954b;
 Mallick, R. & Sharma, A.K. 1966;
 Mehra, P.N. & Pandita, T.K. 1979

erectum Linn.

ramosum Huds.

30 Wolff, H.D. 1938; Lohammar (Löve,
 A. & Löve, D. 1942b); Löve, A. &

simplex Huds.

30 Scheerer, H. 1940; Hagerup, O.
 1941b; Lohammar (Löve, A. & Löve,
 D. 1942b); Löve, A. 1954b;
 Sokolovskaya, A.P. (Fedorov);
 Taylor, R.L. & Mulligan, G.A. 1968

STRELITZIACEAE (K. Schum.) Hutch.

3/7; tropical South America, South Africa and Madagascar. 2/2; cultivated.

Ravenala Adans.

1; Madagascar. Cultivated.

madagascariensis Carib*

22 Cheesman, E.E. & Larter, L.N.H.
 1935; Simmonds, N.W. 1954;
 Sharma, A.K. & Bhattacharyya, N.K.
 1959c; Satō, D. 1960; Bisson, S.
et al. 1968

Strelitzia Dryand.

5; South Africa. 1; cultivated.

reginae (Banks, in) Ait.

14 Cheesman, E.E. & Larter, L.N.H.
 1935; Chakravorty, A.K. 1952a,
 1960; Satō, D. 1960; Bisson, S.
et al. 1968; Mahanty, H.K. 1970

*The combination *Ravenala madagascariensis* was made by J.F. Gmel. (Willis : 980).

TACCACEAE Dum.

2/31 ; tropics. 1/3 ; Eastern and Central India, and South Western Peninsula, and Bangla Desh and Sri Lanka.

Tacca J.R. & G. Forst.

30 ; tropics, especially South East Asia.
3 ; Eastern and Central India, and South Western Peninsula, and Bangla Desh and Sri Lanka.

integrifolia Ker-Gawl.

chowdhuriana Deb

28 Sharma, A. & Sarker, A.K. 1967-1968

TRICHOPODACEAE Hutch.

1/1 ; Southern India, and Sri Lanka and Malay Peninsula.

Trichopus Gaertn.

1 ; Southern India, and Sri Lanka and Malay Peninsula.

zeylanicus Gaertn.

28 Ramachandran, K. 1962, 1968

TRILLIACEAE Lindl.

4/53 ; temperate Eurasia and North America. 2/3 ; temperate Himalaya, and Bhutan.

Paris Linn.

20 ; North palaeotemperate. 1 ; temperate Himalaya (up to 3,300 m), and Bhutan.

polyphylla Smith

- 10 Darlington, C.D. & LaCour, L.F. 1938 ; LaCour, L.F. 1951a
10, 10+B Darlington, C.D. 1941
10+2B Larsen, K. 1963b
10, 20 Malik, C.P. 1961a ; Filion, W.G. & Vosa, C.G. 1980
20 Kurosawa, S. 1966, 1971b ; Sharma, A. & Sarker, A.K. 1967-1968 ;

Chatterjee, A. 1968b, 1973 ; Mukherjee, B. 1968 ; Hara, H. 1969b ; Mehra, P.N. & Sachdeva, S.K. 1976a, 1979 ; Sachdeva, S.K. 1977

var. *appendiculata* Hara

10 Kurosawa, S. 1966

var. *brachystemon* Franch.

20 Kurosawa, S. 1966

sp. *marmorata* (Stearn) Hara

10, 20 Kurosawa, S. 1971b

660 TRILLIACEAE

Trillium Linn.

30 ; Western Himalaya to Japan, Kamtschatka and North America. 2; Himalaya (up to 3,660 m), and Bhutan.

govatanum Wall.

- 20 Chatterjee, A. 1968a, b, 1973 ; Kurosawa, S. 1971b ; Mehra, P.N. & Sachdeva, S.K. 1976
- 20, 20+1B Mehra, P.N. & Sachdeva, S.K. 1977
- 20, 20+2B Mehra, P.N. & Pandita, T.K. 1978
- 20+0-1B Mehra, P.N. & Sachdeva, S.K. 1975b

tschonoskii Maxim.

- 20 Gotoh, K. 1933 ; Haga, T. 1934, 1937b, 1954, 1956 ; Stow, I. 1935 ; LeCoeur, L.F. 1951a, Kurabayashi, M. 1958 ; Kurabayashi, M. *et al.* 1958 ; Samejima, J. and Samejima, K. 1962 ; Lee, Y.N. 1969 ; Watanabe, H. & Kayano, H. 1971 ; Haga, T. *et al.* 1974

var. *himalaicum* Hara

- 20 Hara, H. 1969a ; Kurosawa, S. 1971b

TYPHACEAE Juss.

1/10 ; temperate and tropics. 1/4 ; 1 in Kashmir, a few throughout India, and Pakistan and Sri Lanka.

Typha Linn.

10-20 ; temperate and tropics. 4 ; 1 in Kashmir, a few throughout India, and Pakistan and Sri Lanka.

angustifolia Linn.*

- 30 Mallick, R. & Sharma, A.K. 1966

australis Schum. & Thonn.

angustata Bory & Cbaub.

- 30 Harada, I. 1949 ; Gunguly, B. 1959

elephantina Roxb.

- 30 Mallick, R. & Sharma, A.K. 1966

XYRIDACEAE C.A. Agardh

2/250 ; tropics and subtropics, mostly America. 1/8 ; chiefly in Eastern Himalaya and Southern India, and Nepal, Bangla Desh and Sri Lanka.

Xyris Gronov *ex* Linn.

250 ; tropics and subtropics. 8 ; chiefly in Eastern Himalaya and Southern India, and Nepal, Bangla Desh and Sri Lanka.

complanata R. Br.

- 26 Briggs, B.G. 1966

indica Linn.

- 32 Weinzierl, S. 1914

**Typha angustifolia* Watt non Linn. is a synonym of *T. elephantina* Roxb. (WI, 10 : 400).

ZANNICHELLIACEAE Dum.

3/6 ; cosmopolitan. 1/1 ; throughout India.

Zannichellia Linn.

2 ; 1 cosmopolitan, 1 in South Africa.
1 ; throughout India (up to 5,000 m in
Himalaya).

palustris Linn.

12 Reese, G. 1957 ; Kolubarov, S. &
Kuzmanov, B. 1964a

24 Harada, I. 1956 ; Hedberg, I. &
Hedberg, O. 1964

24, 28, 32,

36 Reese, G. (Löve, A. & Löve, D.
1961b)

28 Scheerer, H. 1940 ; Tarnavski, I.T.
1948 ; Löve, A. & Löve, D. 1956b

36 Skalińska, M. & Pogan, E. 1971

ZINGIBERACEAE Lindl.

46/850 ; tropics, chiefly Indo-Malesia. 19/167 ; chiefly in Eastern Himalaya and Western
Ghats, and Nepal, Pakistan, Bhutan, Bangla Desh and Sri Lanka a few cultivated.

Alpinia Roxb.

250 ; warm Asia and Polynesia. About
16 ; chiefly in Eastern Himalaya, and
Bangla Desh and Sri Lanka.

allegans Rosc.

48 Raghavan, T.S. & Venkatasubban,
K.R. 1943 ; Chakravorti, A.K. 1948a,
1952b ; Ramchandran, K. 1969

aquatica Rosc.

48 Chakravorti, A.K. 1948a

bracteata Roxb.

48 Chakravorti, A.K. 1948a, 1952b

calcarata Rosc.

48 Raghavan, T.S. & Venkatasubban,
K.R. 1940c, 1943 ; Chakravorti, A.K.
1948a, 1952b ; Ramchandran, K.
1969

galanga Swartz

48 Raghavan, T.S. & Venkatasubban,
K.R. 1943 ; Ramchandran, K. 1969

malaccensis Rosc.

48 Chakravorti, A.K. 1948a

rafflesiana Wall. ex Bak.*vittata* Bull.

22 Chatterji, A.K. 1964b

48 Raghavan, T.S. & Venkatasubban,
K.R. 1943

zerumbet (Pers.) Burtt & Smith*nutans* Rosc.

48 Raghavan, T.S. & Venkatasubban,
K.R. 1943 ; Chakravorti, A.K. 1948a,
1952b

50 Bhattacharyya, R. 1968 ;
Bhattacharyya, R. & Sharma, A.K.
1968

Amomum Linn.

150 ; palaeotropics. 24 ; chiefly in
Eastern Himalaya, and Sri Lanka, and
Bangla Desh - a few cultivated.

cannicarpum Benth.

48 Gajapathy, C. 1962b

662 ZINGIBERACEAE

hypoleucum Thwaites

48 Ramachandran, K. 1969

involutatum Benth.

48 Ramachandran, K. 1969

magnificum Benth. & Hook.

48 Venkatasubban, K.R. 1946

52 Chakravorti, A.K. 1952b

microstephanum Baker

48 Ramachandran, K. 1969

subulatum Roxb.

48 (26, 32,

34, 42, 44) Sharma, A.K. & Bhattacharyya, N.K. 1959c

sp.

50 Bhattacharyya, R. 1968

Cantleya Royle

5 ; Himalaya (up to 2,800 m).

gracilis (Smith) Dandy

lata Royle

24, 26 Sachdeva, S.K. 1977 ; Mehra, P.N. & Sachdeva, S.K. 1979

spicata (Smith) Baker

26 Mehra, P.N. & Sachdeva, S.K. 1971, 1976c, 1979 ; Sachdeva, S.K. 1977

34 (27, 36) Sharma, A.K. & Bhattacharyya, N.K. 1959c

Curcuma Linn.

About 50 ; Indo-Malesia, China and North Australia. 20 ; chiefly in Eastern India, and Nepal and Sri Lanka a few cultivated.

amada Roxb.

42 Raghavan, T.S. & Venkatasubban, K.R. 1943 ; Chakravorti, A.K. 1948a, 1952b ; Raghavan, R.S. & Atora, C.M. 1958 ; Sharma, A.K. & Bhattacharyya, N.K. 1959c ; Ramachandran, K. 1961, 1969

angustifolia Roxb.

42 Chakravorti, A.K. 1948a, 1952b ; Sharma, A.K. & Bhattacharyya, N.K. 1959c

63 Ramachandran, K. 1961

64 Raghavan, R.S. 1959b

aromatica Salisb.

42 Raghavan, T.S. & Venkatasubban, K.R. 1943 ; Chakravorti, A.K. 1948a, 1952b

63, 86 Ramachandran, K. 1961, 1969

declivens Daiz.

42 Ramachandran, K. 1961, 1969

longa Linn.

32 Satō, D. 1948, 1960

42 Chakravorti, A.K. 1952b

62 Raghavan, T.S. & Venkatasubban, K.R. 1943 ; Sharma, A.K. & Bhattacharyya, N.K. 1959c

62, 63, 64 Chakravorti, A.K. 1948a

63 Ramachandran, K. 1961, 1969

64 Suglura, T. 1931, 1936b

neilgherrensis Wight

42 Ramachandran, K. 1961, 1969

petiolata Roxb.

63 Ramachandran, K. 1961

64 Venkatasubban, K.R. 1946

zedoaria Rosc.

40 Bhattacharyya, R. 1968

42 Chakravorti, A.K. 1952b

63 Ramachandran, K. 1961, 1969

63, 64 Chakravorti, A.K. 1948a

64 Venkatasubban, K.R. 1946

66 Sharma, A. & Sarkar, A.K. 1967-1968

Curcumorpha A.S. Rao & D.M. Verma

1 ; Eastern Himalaya.

longiflora A.S. Rao & D.M. Verma

Boesenbergia longiflora O. Kuntze

50 Ramachandran, K. 1969

Elettaria Maton

7 ; Indo-Malesia. 1 ; Western Ghats, also cultivated.

cardamomum Maton

- 48 Gregory, P.J. 1936 ; Sharma, A.K. & Bhattacharyya, N.K. 1959c ; Satb, D. 1960 ; Bhattacharyya, R. 1968 ; Bhattacharyya, R. & Sharma, A.K. 1968 ; Bisson, S. *et al.* 1968 ; Ramachandran, K. 1969
52 Chakravorti, A.K. 1948a, 1952b

Globba Linn.

50 ; South China and Indo-Malesia.
10 ; chiefly in Eastern Himalaya, and Nepal,
Bangla Desh and Sri Lanka.

bubifera Roxb.

- 28 Bhattacharyya, R. & Sharma, A.K. 1968
32 Chakravorti, A.K. 1952b
44 Sharma, A.K. & Bhattacharyya, N.K. 1959c
48 Raghavan, T.S. & Venkatasubban, K.R. 1943 ; Chakravorti, A.K. 1948a
96 Ramachandran, K. 1969

clarkei Baker

- 24 Larsen, K. 1972

hookeri Clarke

- 22 (24) Sharma, A.K. & Bhattacharyya, N.K. 1959c
24 Sachdeva, S.K. 1977 ; Mehra, P.N. & Sachdeva, S.K. 1979

marantina Linn.

- 48 Bhattacharyya, R. 1968
80 Lim, S.-N. 1972 ; Siew-Ngo, L. 1972

ophioglossa Wight

- 22 Ramachandran, K. 1969

racemosa Smith

- 24 (23-25) Sharma, A.K. & Bhattacharyya, N.K. 1959c
24 Mehra, P.N. & Sachdeva, S.K. 1971, 1976c
32 Sarkar, A.K. *et al.* 1974

schenburgkii Hook. f.

- 48 Bisson, S. *et al.* 1968
48, c.64 Larsen, K. 1972

Hedychium Koen.

50 ; Madagascar, South West China and Indo-Malesia. About 35 ; chiefly in Himalaya, and Nepal, Bangla Desh and Sri Lanka a few cultivated.

angustifolia Roxb.

- 34 Mukherjee, I. 1970 ; Khoshoo, T.N. 1979
52 Venkatasubban, K.R. 1946

coccineum Buch.-Ham. ex Smithvar. *angustifolium* (Roxb.) Baker

- 34 Sharma, A.K. & Bhattacharyya, N.K. 1959c
36 Bhattacharyya, R. 1968

aurantiacum Wall. ex Rosc.

- 34 Sharma, A.K. & Bhattacharyya, N.K. 1959c ; Khoshoo, T.N. 1979

chrysoleucum Hook.*coronarium* Koen.var. *chrysoleucum* (Hook.) Baker

- 34 Bhattacharyya, R. 1968

coelestem Buch.-Ham.

- 34 Bhattacharyya, R. 1968
34, 68 Khoshoo, T.N. 1979
52 Venkatasubban, K.R. 1946
68 Mukherjee, I. 1970

coronarum Koen.

- 18 Hsu, C.-C. 1967
34 Sharma, A.K. & Bhattacharyya, N.K. 1959c ; Bhattacharyya, R. 1968
34, 51 Ramachandran, K. 1969 ; Khoshoo, T.N. 1979
51 Mukherjee, I. 1970
54 Raghavan, T.S. & Venkatasubban, K.R. 1943 ; Chakravorti, A.K. 1948a

ellipticum Buch.-Ham. ex Smith

- 34 Mukherjee, I. 1970 ; Khoshoo, T.N. 1979

elwesii Baker

- 66 Gregory, P.J. 1936

flavescens Carey ex Rosc.

- 34 Raghavan, T.S. & Venkatasubban, K.R. 1943

- 51 Sharma, A.K. & Bhattacharyya, N.K. 1959c
coronarium Koen.
 var. *flavescens* Baker
 50 Bhattacharyya, R. 1968
- flavum* Roxb.
 34 Sharma, A.K. & Bhattacharyya, N.K. 1959c; Khoshoo, T.N. 1979
 52 Raghavan, T.S. & Venkatasubban, K.R. 1943
- coronarium* Koen.
 var. *flavum*
 34 Bhattacharyya, R. 1968
- type I White
 34 Bhattacharyya, R. 1968
- type II Yellow
 52 Bhattacharyya, R. 1968
- gardoerianum* Rosc.
 34 Sharma, A.K. & Bhattacharyya, N.K. 1959c
 54 Raghavan, T.S. & Venkatasubban, K.R. 1943
- gracile* Roxb.
 66 Raghavan, T.S. & Venkatasubban, K.R. 1943
- gracile* W.W. Smith
 36 Raghavan, T.S. & Venkatasubban, K.R. 1943
 52 Sharma, A.K. & Bhattacharyya, N.K. 1959c; Bhattacharyya, R. 1968; Bhattacharyya, R. & Sharma, A.K. 1968
- maximum* Rosc.
 34 Bisson, S. *et al.* 1968
- coronatum* Koen.
 var. *maximum* (Rosc.) Baker
 34 Sharma, A.K. & Bhattacharyya, N.K. 1959c; Bhattacharyya, R. 1968
- opulatum* Buch.-Ham.
 34 Saið, D. 1948, 1960; Mukherjee, I. 1970; Khoshoo, T.N. 1979
 52 Mehra, P.N. & Sachdeva, S.K. 1976c
- thyrsiforme* Buch.-Ham.
 24 Sharma, A.K. & Bhattacharyya, N.K. 1959c
 34 Bhattacharyya, R. 1968; Mahanty, H.K. 1970
- villosum* Wall.
 34 Sharma, A.K. & Bhattacharyya, N.K. 1959c
- Hitchcoba* Wall.
 3; India and Malay Peninsula. 2; Eastern Himalaya and Western Peninsula, and Bangla Desh.
caulis Baker
 42 Ramachandran, K. 1969
- Kacmpferia* Linn.
 70; tropical Africa, India to South China and West Malaysia. 11; chiefly in Eastern Himalaya, and Bhutan, Bangla Desh and Sri Lanka - a few cultivated.
angustifolia Rosc.
 22 Mahanty, H.K. 1970
 54 (36) Sharma, A.K. & Bhattacharyya, N.K. 1959c
- atrovirens* N.E. Brown
 22 Venkatasubban, K.R. 1946; Chakravorti, A.K. 1948a, 1952b; Bhattacharyya, R. 1968; Bhattacharyya, R. & Sharma, A.K. 1968
- clekowskyana*
 28 Chakravorti, A.K. 1948a, 1952b
- galanga* Linn.
 22 Sharma, A.K. & Bhattacharyya, N.K. 1959c
 54 Raghavan, T.S. & Venkatasubban, K.R. 1943; Raghavan, R.S. & Arora, C.M. 1958; Ramachandran, K. 1969
- gilbertii* Bull.
 22 Chakravorti, A.K. 1952b
 33 Chakravorti, A.K. 1948a; Mahanty, H.K. 1970

- 34 Bhattacharyya, R. 1968 ;
Bhattacharyya, R. & Sharma, A.K.
1968
36 Raghavan, T.S. & Venkatasubban,
K.R. 1943

involutrata King ex Bak.

- 22 Bisson, S. *et al.* 1968

ovatifolia Roxb.

- 22 Sharma, A.K. & Bhattacharyya, N.K.
1959c

rosea Schweinf.

- 28 Bhattacharyya, R. & Sharma, A.K.
1968

rotunda Linn.

- 22 Chakravorti, A.K. 1952b
33 Chakravorti, A.K. 1948a ;
Bhattacharyya, R. 1968 ;
Bhattacharyya, R. & Sharma, A.K.
1968 ; Mahanty, H.K. 1970
44 Ramachandran, K. 1969
54 Raghavan, T.S. & Venkatasubban,
K.R. 1943

Roscoes Smith

15 ; Himalaya to China. 3 ; Himalaya,
and Nepal (up to 3,660 m).

alpina Royle

- 24 Sharma, A.K. & Bhattacharyya, N.K.
1959c ; Malik, C.P. 1961b ; Mahanty,
H.K. 1970
42 Mehra, P.N. & Sachdeva, S.K. 1976c

purpurea Smith

- 24 Bisson, S. *et al.* 1968
26 Bhattacharyya, R. 1968

var. gigantea Wall.*procera* Wall.

- 26 Mehra, P.N. & Sachdeva, S.K. 1971,
1976c, 1979 ; Sachdeva, S.K. 1977

Zingiber Bohem.

About 80-90 ; East Asia, Indo-Malesia
and North Australia. 15 ; chiefly in Eastern
Himalaya and Southern India, and Bangla
Desh and Sri Lanka a few cultivated.

cassumunar Roxb.

- 22 Raghavan, T.S. & Venkatasubban,
K.R. 1943 ; Chakravorti, A.K. 1948a,
1952b

cylindricum Moon

- 22 Mahanty, H.K. 1970

macrostachyum Dalz.

- 22 Ramachandran, K. 1969

officinale Rosc.

- 22 Sugiura, T. 1928 ; Raghavan, T.S. &
Venkatasubban, K.R. 1943 ;
Chakravorti, A.K. 1948a, 1952b ;
Sharma, A.K. & Bhattacharyya, N.K.
1959c ; Ramachandran, K. 1969 ;
Datta, A.K. & Biswas, A.K. 1977
24 Kihara, H. *et al.* 1931
66 Bisson, S. *et al.* 1968

roseum Rosc.

- 22 Ramachandran, K. 1969

rubens Roxb.

- 22 Chakravorti, A.K. 1948a, 1952b

wightianum Thwaites

- 22 Ramachandran, K. 1969

zerumbet Smith

- 22 Raghavan, T.S. & Venkatasubban,
K.R. 1943 ; Chakravorti, A.K. 1948a,
1952b ; Bhattacharyya, R. 1968 ;
Ramachandran, K. 1969

APPENDICES

Appendix 1. Cytological status of genera and species in each family of the Indian subcontinent

Family	No. of genera	No. of genera studied for chromosome number	No. of species	No. of species studied for chromosome number	Family	No. of genera	No. of genera studied for chromosome number	No. of species	No. of species studied for chromosome number
Agavaceae	9	9	43	31	Lemnaceae	3	3	8	6
Alismataceae	5	4	8	5	Liliaceae	41	35	176	130
Alliaceae	2	2	38	33	Limncharitaceae	2	2	2	2
Amaryllidaceae	18	15	82	64	Marantaceae	6	3	11	3
Aponogetonaceae	1	1	4	1	Musaceae	1	1	16	14
Apostasiaceae	1	0	2	0	Najadaceae	1	1	8	5
Araceae	36	30	177	95	Nypaceae	1	1	1	1
Arecaceae	56	36	142	66	Orchidaceae	136	93	1,011	469
Bromeliaceae	3	3	3	3	Pandanaceae	2	1	40	5
Burmanniaceae	3	1	8	5	Philydraceae	1	1	1	1
Butomaceae	1	1	1	1	Poaceae	248	211	1,177	628
Cannaceae	1	1	2	2	Pontederiaceae	2	2	3	3
Commelinaceae	13	13	87	69	Potamogetonaceae	1	1	12	9
Costaceae	1	1	2	2	Ruppiaceae	1	1	1	1
Crotoniaceae	1	0	1	0	Ruscaceae	1	1	1	1
Cyclanthaceae	2	1	2	1	Smilacaceae	2	1	25	5
Cymodoceaceae	3	0	5	0	Sparganiaceae	1	1	2	2
Cyperaceae	24	18	440	181	Stemonaceae	1	0	2	0
Dioscoreaceae	1	1	51	16	Strelitziaceae	2	2	2	2
Etiocaulaceae	1	1	60	3	Taccaceae	1	1	3	1
Flagellariaceae	1	1	1	1	Trichopodaceae	1	1	1	1
Heliconiaceae	1	0	1	0	Trilliaceae	2	2	3	3
Hydrocharitaceae	8	8	17	10	Triuridaceae	2	0	2	0
Hypoxidaceae	3	2	7	4	Typhaceae	1	1	4	2
Iridaceae	10	10	31	25	Xyridaceae	1	1	8	2
Juncaceae	2	2	34	13	Zanichelliaceae	1	1	1	1
Juncaginaceae	1	1	2	2	Zingiberaceae	19	12	167	69

Appendix 2. List of genera and number of species in the Indian subcontinent not screened for chromosome number

Family/Genera	No. of species in world	No. of species in Indian subcontinent	Family/Genera	No. of species in world	No. of species in Indian subcontinent
Alliaceae			<i>Salacca</i>	10	1
<i>Wiesneria</i>	4	1	<i>Scheelea</i>	40	1c
Amaryllidaceae			Barbaniaceae		
<i>Eurycea</i>	3	1c	<i>Haplothismia*</i>	1	1
<i>Furcraea</i>	20	1c	Crotoniaceae		
<i>Vallota</i>	1	1c	<i>Stichoneuron</i>	2	1
Apostasiaceae			Cyclanthaceae		
<i>Apostasia</i>	10	2	<i>Cyclanthus</i>	1	1c
Araceae			Cymodoceaceae		
<i>Diacontium</i>	13	1c	<i>Cymodocea</i>	4	3
<i>Epipremnopsis</i>	4	1	<i>Halodule</i>	6	1
<i>Epipremnum</i>	25	1	<i>Syringodium</i>	2	1
<i>Plesmonium*</i>	1	1	Cyperaceae		
<i>Syngonium</i>	20	1c	<i>Lepironia</i>	1	1c
Aracaceae			<i>Mapania</i>	80	2
<i>Acanthophoenix</i>	2	1c	<i>Microschoenus*</i>	1	1
<i>Actinorhiza</i>	2	1c	<i>Remirea</i>	1	1
<i>Aiphanes</i>	40	1c	<i>Scirpodendron</i>	1	1
<i>Artalea</i>	40	1c	Hypoxidaceae		
<i>Bacris</i>	180	1c	<i>Molineria</i>	7	3
<i>Bentinckia*</i>	2	2	Liliaceae		
<i>Butia</i>	9	1c	<i>Anthericum</i>	300	2
<i>Caroxylon</i>	20	1c	<i>Gonioscypha</i>	2	1
<i>Daemonorops</i>	100	4	<i>Merendera</i>	10	1
<i>Drymospenna</i>	8	1	<i>Nomocharis</i>	16	1
<i>Eleocharis</i>	5	1	<i>Theropogon*</i>	1	1
<i>Euterpe</i>	50	1c	<i>Tofieldia</i>	20	1
<i>Lodicea</i>	1	1c			
<i>Metaroxylon</i>	15	1c			
<i>Orbigaya</i>	25	1c			
<i>Plectocomia</i>	1	1			

* = Endemic
c = Cultivated

Family/Genera	No. of species in world	No. of species in Indian subcontinent	Family/Genera	No. of species in world	No. of species in Indian subcontinent
Marantaceae			Pandanaceae		
Phacelophrynium	9	1	Freycinetia	100	2
Schumannianthus	2	2			
Stachyphrynium	12	1			
Orchidaceae			Poaceae		
Acriopsis	12	1	Bhidea*	1	1
Androcorys	4	1	Cephalostachyum	12	5
Ania	11	2	Chandrasekharania*	1	1
Aphyllorchis	20	6	Danthonia	10	2
Appendicula	100	2	Dichaetaria*	1	1
Arnodorum	3	1	Dignathia	4	1
Bulleyia	1	1	Dinochloa	20	2
Chrysoglossum	12	4	Eremochloa	8	1
Chusua	2	1	Eriachne	40	1
Corymborkia	20	1	Eriochrysis	8	1
Cryptostylis	20	1	Fingerhuthia	2	1c
Didickea*	1	1	Gymnopogon	10	1c
Didymoplexis	23	2	Halopyrum*	1	1
Diglyphosa	5	1	Holcolemma	2	1
Diphylax	1	1	Hubbardia*	1	1
Disperis	75	2	Hystrix	7	1
Herpysma	2	1	Indochloa*	2	2
Ipsca*	1	1	Indopoa*	1	1
Mischobutium	7	1	Latipes	2	1
Monomeria	4	2	Limnopoa*	1	1
Neottianthe	6	1	Lopholepis*	1	1
Pelatantheria	8	1	Myriostachya	1	1
Pennilabium	5	1	Neohouzeana	4	2
Polystachya	210	1	Orinus	1	1
Pomatocalpa	60	1	Pogonachne*	1	1
Proteroceras*	1	1	Pommerulla*	1	1
Pteroceras	30	1	Porteresia	2	1
Risleya	1	1	Pseudodanthonia*	1	1
Sigmatogyne	2	2	Pseudodichanthum*	1	1
Sirhookera*	2	2	Ryttilix	1	1
Stigmatodactylus	4	1	Schizostachyum	35	2
Tainlopsis	1	1	Silentvalleya*	1	1
Thelasis	20	4	Sinobambusa	8	1
Tipularia	4	1	Sinocalamus	8	1
Trichoglottis	60	2	Teinostachyum	6	4
Trichostia	80	3	Thyrsostachys	2	2
Vrydagzynea	40	1	Trikeria	1	1
Yoania	2	2	Urochondra	1	1
			Zenkeria*	3	3

Family/Genera	No. of species in world	No. of species in Indian subcontinent	Family/Genera	No. of species in world	No. of species in Indian subcontinent
Sauriaceae			Zingiberaceae		
<i>Heterosmilax</i>	15	1	<i>Achaama</i>	20	3
Triuridaceae			<i>Aframomum</i>	50	1c
<i>Andropogon</i>	16	1	<i>Boesenbergia</i>	20	5
<i>Hyalisma*</i>	1	1	<i>Hemiarachis</i>	3	2
			<i>Hornstedtia</i>	60	5
			<i>Mantisia</i>	3	2
			<i>Stalbanthus</i>	7	1

Appendix 3. Cytological status of the monotypic genera in Indian subcontinent

Family/Genera	Cytological report	Geographical distribution
Amaryllidaceae		
Amaryllis	+	S. Africa. Cultivated.
Sprekelia	+	Mexico. Cultivated.
Vallota	—	S. Africa. Cultivated.
Araceae		
Ariopsis	+	Indo-Malesia.
Pistia	+	Tropics and subtropics.
Plesmonium*	—	N. India.
Thomsonia*	+	Himalaya and Assam.
Arecaeae		
Arecastrum	+	Brazil. Cultivated.
Cocos	+	Cultivated.
Lodoicea	—	Seychelles. Cultivated.
Plectocomia	—	Assam to S. China and W. Malaysia.
Burmanniaceae		
Haplothismia*	—	S. India.
Commelinaceae		
Rhoeo	+	Mexico, C. America and Cuba. Cultivated.
Streptolirion	+	E. Himalaya, Indo-China and Korea.
Cyclanthaceae		
Cyclanthus	—	C. America, tropical S. America and West Indies. Cultivated.
Cyperaceae		
Ascopholis*	+	S. India.
Lepironia	—	Madagascar, tropical Asia, Australia and Polynesia. Cultivated.
Microschoenus*	—	W. Himalaya.
Queenslandiella	+	Tropical E. Africa, Madagascar, S. India and Sri Lanka.

* = Endemics

Chromosome numbers

+ : known

— : unknown

Family/Genera	Cytological report	Geographical distribution
Remirea	—	Tropics.
Scirpodendron	—	Indo-Malesia, Australia and Polynesia.
Hydrocharitaceae		
Enhalus	+	Indo-Malesia and Australia.
Hydrilla	+	Eurasia, Africa to Australia.
Liliaceae		
Theropogon*	—	Himalaya.
Limnocharitaceae		
Limnocharis	+	Tropical S. America and West Indies. Kerala.
Tenagocharis	+	Africa, Asia and Australia.
Nypaceae		
Nypa	+	Coasts of tropical Asia to Australia.
Orchidoceae		
Anthogonium	+	E. Himalaya to S.W. China and Siam.
Bulleyia	—	E. Himalaya to S.W. China.
Cottonia*	+	W. Ghats and Sri Lanka.
Didicis*	—	E. Himalaya.
Diphyllax	—	N.E. India and China.
Ipaea*	—	India and Sri Lanka.
Kingidium	+	Indo-Malesia.
Neogyna	+	India, China and Indo-China.
Ornithochilus	+	India, Burma, Siam and China.
Proterocerus*	—	Tamil Nadu.
Risleya	—	Himalaya and W. China.
Tainiopsis	—	N.E. India to China and Indo-China.
Poaceae		
Acrachne	+	Asia and Australia.
Apluda	+	Mauritius, Socotra to Formosa and N. Caledonia. India and Sri Lanka.
Bhidoa*	—	Bombay.
Castellia	+	Canary Islands, Mediterranean, Sudan, Arabia and N.W. India.
Chondrasakharania*	—	Kerala.
Desmostachya	+	Tropical Africa to India.
Dichaetaria*	—	India and Sri Lanka.
Diectomis	+	Tropics.
Dinebra	+	Tropical Africa and Asia.
Euclasta	+	Tropical America and Africa. Madhya Pradesh.
Halopyrum*	—	Coasts of Indian Ocean.

Family/Genera	Cytological report	Geographical distribution
Hubbardia*	-	W. India.
Hygroryza	+	Indo-Malesia.
Indopoa*	-	India.
Ischnochloa*	+	W. Himalaya.
Jansenella*	+	India and Sri Lanka.
Lagurus	+	Mediterranean. Cultivated.
Lamarckia	+	Mediterranean. Punjab and Uttar Pradesh.
Limnopoa*	-	S. India.
Lophalepis*	-	S. India and Sri Lanka.
Lygeum	+	Mediterranean. Cultivated.
Myriostachya	-	Bengal, Burma, Sri Lanka and Malay Peninsula.
Orinus	-	Tiber and Kashmir.
Phaenosperma	+	China, E. Himalaya and Assam.
Pogonachae*	-	Bombay.
Polytrias	+	Java. Cultivated.
Pommereulla*	-	S. India and Sri Lanka.
Pseudechinoiaena	+	Tropics.
Pseudodanthouia*	-	Himalaya.
Pseudodichanthium*	-	S.W. Peninsular India.
Pseudosorghum	+	Tropical Asia.
Rytidix	-	Tropics to S. China and S. United States.
Sclerachne	+	Java and Timor, S. India.
Sclerochloa	+	S. Europe to W. Asia, Kashmir.
Silentvalleya*	-	Kerala.
Thelepogon	+	Abyssinia to India.
Thysanolaena	+	Tropical Asia.
Trachys	+	S. India, Burma and Sri Lanka.
Trikerala	-	W. Himalaya and Tibet.
Trilobachne*	+	W. Peninsular India.
Triplopogon*	+	W. Peninsular India.
Urochondra	-	Africa. India.
Vossia	+	Tropics, Africa and Burma.
Zea	+	S. and C. America. Cultivated.
Strelitzaceae		
Ravenala	+	Madagascar. Cultivated.
Trichopodaceae		
Trichopus	+	S. India, Sri Lanka and Malay Peninsula.
Triuridaceae		
Hyalisma*	-	India.
Zingiberaceae		
Curcumorpha*	+	E. Himalaya.

Appendix 4. Cytological status of the monotypic families in the Indian subcontinent

Family	Genus	Cytological report	Geographical distribution
Aponogetonaceae	Aponogeton	+	Palaeotropics and S. Africa.
Butomaceae	Butomus	+	Temperate Eurasia.
Cannaceae	Canna	+	America.
Flagellariaceae	Flagellaria	+	Tropical Africa, Asia and Pacific.
Heliconiaceae	Heliconia	-	Tropical America. Cultivated.
Najadaceae	Najas	+	Cosmopolitan.
Nypaceae	Nypa	+	Coasts of tropical Asia to Australia.
Ruppiaaceae	Ruppia	+	Temperate and subtropics.
Sparganiaceae	Sparganium	+	N. temperate, Australia and New Zealand.
Stemonaceae	Stemona	-	E. Asia, Indo-Malesia and N. Australia.
Trichopodaceae	Trichopus	+	Malay Peninsula.
Typhaceae	Typha	+	Temperate and Tropics.

Chromosome numbers

+: known

- : unknown

Appendix 5. Cytological status of the species in endemic genera of the Indian subcontinent

Family/Genera	No. of species	No. of species studied for chromosome number	Geographical distribution
Araceae			
Anaphyllum	2	1	S. India.
Lagenandra	6	3	S. India and Sri Lanka.
Plesmonium	1	0	N. India.
Theriophonum	6	3	Peginsular India and Sri Lanka.
Thomsonia	1	1	Himalaya, Assam and Nepal.
Areaceae			
Bentinckia	2	0	Nicobar Islands.
Burmanniaceae			
Haplothismia	1	1	S. India.
Cyperaceae			
Ascopholis	1	1	S. India.
Mikroschoenus	1	0	W. Himalaya.
Elmiaceae			
Theropogon	1	0	Himalaya.
Orchidaceae			
Cottonia	1	1	W. Ghats and Sri Lanka.
Cryptochilus	2	2	Himalaya, Nepal and Bhutan.
Didicicia	1	0	E. Himalaya.
Diplocentrum	2	2	S.W. India.
Diplomeris	3	1	Himalaya, Nepal and Bhutan.
Esmeralda	3	1	E. Himalaya, Nepal and Bhutan.
Ipsa	1	0	India and Sri Lanka.
Proteroceras	1	0	S. India.
Sirhookera	2	0	S. India and Sri Lanka.
Poaceae			
Bhidea	1	0	Bombay.
Cbandrasekharania	1	0	S. India.
Dichaetaria	1	0	S. India and Sri Lanka.
Halopyrum	1	0	Coasts of Indian ocean.
Hubbardia	1	0	W. India.
Indochloa	2	0	India.

Family/Genera	No. of species	No. of species studied for chromosome number	Geographical distribution
<i>Indopoa</i>	1	0	India.
<i>Ischnochloa</i>	1	1	W. Himalaya.
<i>Jansenella</i>	1	1	India and Sri Lanka.
<i>Limnopoa</i>	1	0	S. India.
<i>Lopholepis</i>	1	0	S. India and Sri Lanka.
<i>Lophopogon</i>	3	1	Almost throughout India.
<i>Manisuris</i>	5	3	Peninsular India and Sri Lanka.
<i>Pogonachne</i>	1	0	Bombay.
<i>Pommereula</i>	1	0	S. India and Sri Lanka.
<i>Pseudodanthonia</i>	1	0	Himalaya.
<i>Pseudodichanthium</i>	1	0	S.W. Peninsular India.
<i>Silentvalleya</i>	1	0	S. India.
<i>Trilobachne</i>	1	1	W. Peninsular India.
<i>Triplopogon</i>	1	1	W. Peninsular India.
<i>Zenkeria</i>	3	0	India and Sri Lanka.
Trifuridaceae			
<i>Hyalisma</i>	1	0	India.
Zingiberaceae			
<i>Cautleya</i>	5	2	Himalaya.
<i>Curcumorpha</i>		1	E. Himalaya.

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