

Chapter 26

Flora of Ladakh: An Annotated Inventory of Flowering Plants



Achuta Nand Shukla and S. K. Srivastava

Abstract The flora of Ladakh is influenced broadly by altitude and climate; more significantly by the soil, drainage, and microclimate. The present work is based on more than 20,000 plant specimens collected from Ladakh region of Jammu and Kashmir State, since 1975. Critical study of these collections has revealed presence of 1085 species of flowering plants from the Ladakh region. These species belong to 370 genera in 74 families. Of these, 808 species under 283 genera and 62 families belong to dicots, while 277 species under 87 genera and 12 families belong to monocots. Poaceae is the most dominant family and is represented by 184 species, followed by Asteraceae with 122 species, Fabaceae and Brassicaceae with 77 species each, Cyperaceae with 51 species, Scrophulariaceae with 43 species, Lamiaceae and Ranunculaceae with 40 species each, etc. At the generic level, *Astragalus* comprises the maximum number of 35 species, followed by *Carex* with 28 species, *Poa* with 27 species, *Nepeta* with 24 species, *Corydalis* with 20 species, etc. Herbs account for 1010 species, shrubs 48 species, trees 13 species, under-shrubs 11 species, whereas climbers and twiners have 2 and 1 species, respectively.

Keywords Flora · Ladakh · Jammu and Kashmir State · Inventory · Flowering plants

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26.1 Introduction

In India, the Trans-Himalayan zone lies in the rain shadow of the main Himalayan range and is usually described as a 'High Altitude Cold Desert'. It is more extensive outside the Indian territory adjoining Tibet, covering only about 2% of the total land surface in India (Murthi, 2001). The area encompasses the south-western-most extension of the high-level Tibetan Plateau including several basins without external drainage, and its rim towards the high mountain ranges of the Inner Himalaya, parts of the 'Leh' (Upper Indus Valley), 'Zaskar' and 'Rupshu' regions respectively as defined by Dickoré (1995). Altitude in the study area ranges from 3000 m at the bottom of the Indus Valley to 6622 m at Chhamser Kangri peak (Kapadia 1999). Flowering plants were found up to 5970 m. There is no climatic station located in the study area. However, data from a broader region (Dickoré and Miede 2002; Hartmann 1997, 1999; Miede et al. 2001) show that the study area is generally arid. It is rarely affected by monsoonal precipitation, which usually fails to cross the high crest of the main Himalayan range (Bhattacharyya 1989).

The vegetation of Ladakh as a whole is often referred to by local authorities as desert (Negi 1995; Srivastava 2010), or cold desert (Chowdhery and Rao 1990). There are few and very small permanent settlements on the plains situated at about 4550 m and large mountainous areas are uninhabited (Negi 1995). Barley and, less often, oat are cultivated on a small scale up to 4700 m. Steppe and alpine turf vegetation is grazed by sheep, Dzo, goats and yaks up to 5600 m. Synanthropic vegetation types include plant assemblages developed in villages and by stables of domestic stock up to 5400 m, and weed communities occur in arable fields up to 4700 m. The grazing effect of wild ungulates seems to be negligible due to the low densities of most species (Fox et al. 1991; Mallon 1991). During recent decades, the area has been experiencing continuous overgrazing due to large numbers of domestic sheep, goats and yaks (Jina 1995; Holzner and Kriechbaum 1998).

26.2 Materials and Methods

26.2.1 Study Area

Ladakh, 'the land of high-rising passes', located in the State of Jammu and Kashmir, is a high-altitude desert as the Himalaya creates a [rain shadow](#) preventing entry of monsoon clouds. It lies between 32°59'57"- 34°10'12" N latitude and 76°46'29"- 8°41'34" E longitude, covering more than 82,665 km² geographical area of the state. Commonly referred to as the land of the Lama, the high mountain land, a piece of land between earth and sky, etc., it remains landlocked for 6–7 months every year, when the temperature touches below –30 °C to –70 °C at various locations (Brazel and Marcus 1991; Frank et al. 1977). Based on location, river sites and geographical conditions, the Ladakh region can be divided into five different

valleys, viz. Indus, Nubra, Changthang, Zaskar and Suru Valley (Chaurasia 1996–2001). It is bounded on the north and east by China, in the north-west by Gilgit and Skardu (Pakistan); whereas Bandipora, Ganderbal, Anantnag and Khistwar districts of the state lie at its west, and the Himachal Pradesh touches its southern borders. Siachen is the largest glacier located in the extreme northwest of Ladakh. The barren mountain landscape of Ladakh is broken by a series of rivers, notably the Indus and its tributaries, including Zaskar, Markha, Shyok, Nubra and Suru. The high altitude and harsh natural environment of Ladakh is characterized by extreme temperature, high radiation, strong winds, low precipitation, low humidity, desert-like extensive barren landscape, rugged topography, steep and vertical glaciated slopes, minimal forest cover, and few pasture lands at high elevations (Chaurasia and Singh 1996; Kumar et al. 2009).

26.2.2 *Botanical Exploration in Ladakh*

The history of botanical exploration in Kashmir dates back to 1831, when V. Jacquemont (1801–1832) collected plants from Kashmir. His collections were studied and published by J. Cambessedes and F. Decaisne in 1845. Jacquemont was followed by Baron Von Huegel (1835) and Godfrey Thomas Vigne (1835–1836), who explored the Kashmir valley. Vigne collected plants from Kashmir and Deosai Plains in 1835. Hugh Falconer joined Vigne in Skardu in 1837 and made collections in Drass and Baltistan. W. Moorcroft collected specimens in the Ladakh region and sent his collections to Wallich and Royle. He also made collections in Niti Pass area. Falconer also obtained plants from Kashmir probably in the year 1839. Royle made extensive collections in Bashahr and Kinnaur around 1830 and sent collectors to Kashmir during 1833–1839. Thomas Thomson was another pioneer collector who collected in Kashmir during 1848. Schlagintweit (1855–1857), William Hay (1862), J. L. Stewart (1868), and Henderson and Hume (1873) also explored different areas of Kashmir. C. B. Clarke visited Kashmir in 1876 and crossed Deosai on his journey to Karakoram. He also visited Kishanganga valley. J. F. Duthie explored Baltistan and Gilgit during 1892–1893. He visited Deosai while travelling from Dras to Skardu and Astor. W. Gollam and Inayat, as Duthie's collectors, made collections in Kashmir in 1889 and 1891, respectively. G. A. Gammie surveyed and collected plants in Kashmir in the years 1891 and 1893.

In the first half of the twentieth century, several notable explorers and collectors visited this region. Keshavanand collected in Kashmir from 1906 to 1909, especially in the Kishanganga valley. Filippo De Filippi of the Abruzzi Expedition to the Karakoram Mountains in 1909 published a list of plants which he collected from Deosai. W. Koelz collected in Kashmir from 1931 to 1936. He visited Deosai and surrounding areas in Kashmir. R. R. Stewart collected plants in Deosai in 1940 and 1946 and explored Gilgit, Drass, Baltistan, Tilel, and Kamri Pass, etc. The other collectors during this period were R. N. Parker, N. L. Bor, S. R. Kashyap, Thakur Roopchand, Klimes, etc.

After re-organisation of the Botanical Survey of India (BSI) in 1954, the scientists of Northern Circle of B.S.I., Dehradun made systematic and extensive survey of Ladakh area. Notable among these were M. A. Rau, T. A. Rao, N. C. Nair, U. C. Bhattacharyya, B. M. Wadhwa, M. V. Viswanathan, P. K. Hajra, B. D. Naithani, B. P. Uniyal, H. J. Chowdhery, S. K. Murty, S. K. Srivastava, etc. In 1955, Grady Webster and E. Nasir explored Satpura La, Skardu and Deosai to Chillam. Scientists from Universities and Regional Research Laboratories of Kashmir and Jammu, like A. R. Naqshi, Gurcharan Singh, Uppeandra Dhar, B. L. Sapru, A. K. Kaul, R. N. Gohil, Y. K. Sarin, B. K. Kapahi, S. P. Sethi, B. M. Sharma, M. Y. Malla and G. H. Dar were also engaged in exploration of these areas independently.

The findings in this chapter are based on scrutiny of the literature available on floristics of Ladakh, including that of Stewart 1916–1917, Singh and Gohil 1972, Kachroo et al. 1977, Sapru and Kachroo 1979, Srivastava et al. 1981, Balapure 1982, Misri 1982, Dhar and Kachroo 1983, Kaul 1983, Whili 1983, Seybold and Kull 1985, Jain and Chandra 1986, Navchoo and Butt 1987, Naqshi et al. 1989, Murti 2001, Singh et al. 2002, Klimeš and Dickoré 2005, Rawat and Adhikari 2005, and Srivastava and Shukla 2013.

26.3 Floristic Analysis

A total of 1085 species of angiosperms are recorded in the present study. These are distributed over 370 genera in 74 families (Fig. 26.1), and listed in Table 26.1. An analysis of overall flora indicates that out of the total 74 families represented in the

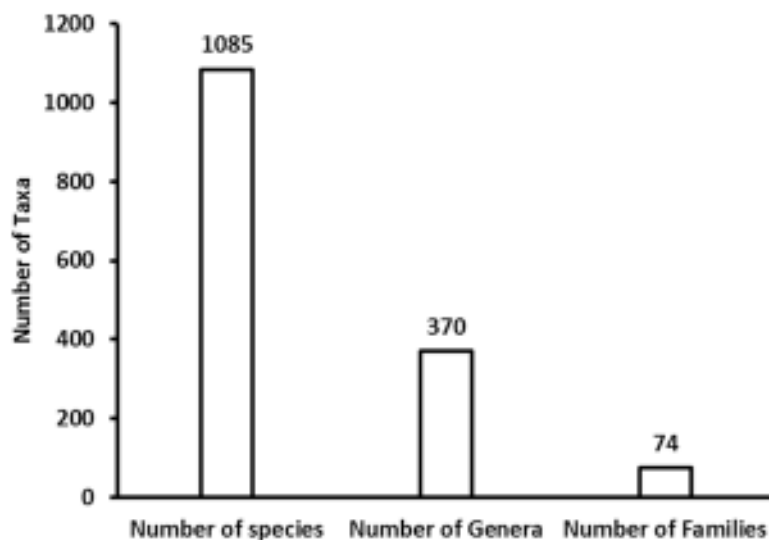


Fig. 26.1 Number of species, genera and families in the angiosperm-flora of Ladakh

Table 26.1 List of flowering plant species in the flora of Ladakh, Jammu and Kashmir State

S. No.	Species	Family	Habit	Life form	Altitude
1.	Aconitum deinorrhizum Stapf	Ranunculaceae	H	B	3400–3600
2.	Aconitum heterophyllum Wall. ex Royle	Ranunculaceae	H	A	3000
3.	Aconitum moschatum (Bruehl) Stapf	Ranunculaceae	H	P	3500
4.	Aconitum soongaricum Stapf	Ranunculaceae	H	B	–
5.	Aconitum violaceum Jacquem. ex Stapf	Ranunculaceae	H	B	–
6.	Adonis chrysoyathus Hook.f. & Thomson	Ranunculaceae	H	P	3000–4000
7.	Anemone rivularis Buch.-Ham.	Ranunculaceae	H	P	–
8.	Anemone rupicola Cambess	Ranunculaceae	H	P	3000–4500
9.	Anemone tetrsepala Royle	Ranunculaceae	H	P	2000–3600
10.	Aquilegia moorcroftiana Wall. ex Royle	Ranunculaceae	H	P	3000–4800
11.	Aquilegia nivalis (Baker) Bruehl	Ranunculaceae	H	P	3000–4000
12.	Callianthemum anemonoides (J. Zahlbr.) Endl. ex Heynh.	Ranunculaceae	H	P	–
13.	Callianthemum pimpinelloides (D. Don ex Royle) Hook.f. & Thomson	Ranunculaceae	H	P	2700–4000
14.	Cimicifuga foetida L.	Ranunculaceae	H	P	2400–3600
15.	Clematis barbellata Edgew.	Ranunculaceae	H	P	2100–4000
16.	Clematis grata Wall.	Ranunculaceae	H	P	1800–4000
17.	Clematis orientalis L.	Ranunculaceae	H	P	–
18.	Consolida schlagintweitii (Huth) Munz	Ranunculaceae	H	P	2200–2500
19.	Delphinium brunonianum Royle	Ranunculaceae	H	P	4000–6000
20.	Delphinium cashmerianum Royle	Ranunculaceae	H	P	2700–4300
21.	Delphinium nordhagenii Wendelbo	Ranunculaceae	H	P	4500–5200

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
22.	Delphinium pyramidale Royle	Ranunculaceae	H	P	3000–3900
23.	Delphinium roylei Munz.	Ranunculaceae	H	P	4000
24.	Delphinium vestitum Wall. ex Royle	Ranunculaceae	H	P	2700–4300
25.	Isopyrum anemonoides Kar. & Kir.	Ranunculaceae	H	A	–
26.	Oxygraphis endlicheri (Walp.) Bennet & Veena Chandra	Ranunculaceae	H	P	3300–5000
27.	Pulsatilla wallichiana (Royle) Ulbrich	Ranunculaceae	H	A	3600–4500
28.	Ranunculus aucheri Boiss.	Ranunculaceae	H	P	2500–3800
29.	Ranunculus brotherusii Frey	Ranunculaceae	H	P	3300–5500
30.	Ranunculus hyperboreus Rottb.	Ranunculaceae	H	P	3600–5100
31.	Ranunculus laetus Wall. ex D. Don	Ranunculaceae	H	P	–
32.	Ranunculus pulchellus C.A. Mey.	Ranunculaceae	H	P	3500–4500
33.	Ranunculus rufosephalus Franch.	Ranunculaceae	H	P	–
34.	Ranunculus sphaerospermus Boiss. & Blanche	Ranunculaceae	H	A	–
35.	Thalictrum alpinum L.	Ranunculaceae	H	P	3000–4800
36.	Thalictrum cultratum Wall.	Ranunculaceae	H	P	3000–4200
37.	Thalictrum minus L. var. majus (Jacq.) Hook.f. & Thomson	Ranunculaceae	H	P	3000–4500
38.	Thalictrum platycarpum Edgew.	Ranunculaceae	H	P	3000–4800
39.	Thalictrum rutifolium Hook.f. & Thomson	Ranunculaceae	H	P	3600–4800
40.	Trollius acaulis Lindl.	Ranunculaceae	H	P	3000–4300
41.	Meconopsis aculeata Royle	Papaveraceae	H	P	3000–4500
42.	Meconopsis latifolia (Prain) Prain	Papaveraceae	H	P	–
43.	Berberis jaeschkeana C.K. Schneid.	Berberidaceae	S	P	3000–4000

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
44.	Berberis ulicina Hook.f. & Thomson	Berberidaceae	S	P	4000–5000
45.	Podophyllum hexandrum Royle	Podophyllaceae	H	P	–
46.	Corydalis adiantifolia Hook.f. & Thomson	Fumariaceae	H	P	4000–5000
47.	Corydalis adiantifolia var. heterocarpa Jafri	Fumariaceae	H	P	3000–3100
48.	Corydalis clarkei Prain	Fumariaceae	H	P	–
49.	Corydalis cornuta Royle	Fumariaceae	H	P	3000–4000
50.	Corydalis crassifolia Royle	Fumariaceae	H	P	3300–4800
51.	Corydalis crithmifolia Royle	Fumariaceae	H	P	3500–5000
52.	Corydalis diphylla Wall.	Fumariaceae	H	P	3500–4800
53.	Corydalis falconeri Hook.f.	Fumariaceae	H	P	3500–4000
54.	Corydalis filiformis Royle	Fumariaceae	H	A	2500–4000
55.	Corydalis flabellata Edgew.	Fumariaceae	H	P	3000–4500
56.	Corydalis gortschakovii Schrenk	Fumariaceae	H	P	3000–4800
57.	Corydalis govaniana var. malukiana Jafri	Fumariaceae	H	P	–
58.	Corydalis hendersonii Hemsley	Fumariaceae	H	P	5000–5500
59.	Corydalis meifolia Wall.	Fumariaceae	H	P	4000–5500
60.	Corydalis pseudocrithmifolia Jafri	Fumariaceae	H	P	4000–5000
61.	Corydalis schelesnowiana Regel & Schmalh. ex Regel	Fumariaceae	H	P	3500–5000
62.	Corydalis stewartii Feddes	Fumariaceae	H	A	3000–4500
63.	Corydalis stricta DC.	Fumariaceae	H	P	3000–5800
64.	Corydalis thyrsoflora Prain	Fumariaceae	H	P	3000–4500
65.	Corydalis tibetica Hook.f. & Thomson	Fumariaceae	H	P	4000–5500
66.	Alyssum desertorum Stapf	Brassicaceae	H	A	3000–4000

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
67.	Aphragmus oxycarpus (Hook.f. & Thomson) Jafri	Brassicaceae	H	A	3600–5500
68.	Arabidopsis himalaica (Edgew.) O. Schulz	Brassicaceae	H	A	3000–4200
69.	Arabidopsis mollissima (C. Meyer) N. Busch	Brassicaceae	H	A	3000–4500
70.	Arabidopsis pumilla (Stephan) N. Busch	Brassicaceae	H	A	–
71.	Arabidopsis thaliana (L.) Heynh.	Brassicaceae	H	P	3000–4800
72.	Arabidopsis wallichii (Hook.f. & Thomson) N. Busch.	Brassicaceae	H	A	800–3500
73.	Arabis saxicola Edgew.	Brassicaceae	H	B	3600–4500
74.	Arabis tenuirostris O. Schulz	Brassicaceae	H	B	3000–4500
75.	Arabis tibetica Hook.f. & Thomson	Brassicaceae	H	B	3500–4800
76.	Atelanthera perpusilla Hook.f. & Thomson	Brassicaceae	H	A	3000–4000
77.	Barbarea vulgaris R. Br.	Brassicaceae	H	B	3000–4000
78.	Brassica campestris L.	Brassicaceae	H	B	–
79.	Braya rosea (Turez.) Bunge	Brassicaceae	H	A	–
80.	Braya tibetica Hook.f. & Thomson	Brassicaceae	H	A	3500–5500
81.	Capsella bursa-pastoris (L.) Medicus	Brassicaceae	H	A	–
82.	Cardamine macrophylla Willd.	Brassicaceae	H	P	–
83.	Chorispora macropoda Trautv.	Brassicaceae	H	P	3500–5000
84.	Chorispora sabulosa Cambess.	Brassicaceae	H	P	–
85.	Chorispora sibirica (L.) DC.	Brassicaceae	H	A	3600–4800
86.	Chorispora tenella (Pallas) DC.	Brassicaceae	H	A	3800–5000
87.	Christolea crassifolia Cambess.	Brassicaceae	H	A	3500–4800
88.	Christolea himalayensis (Cambess.) Jafri	Brassicaceae	H	A	4000

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
89.	Christolea lanuginosa (Hook.f. & Thomson) Ovez.	Brassicaceae	H	A	5000
90.	Christolea parkeri (O.E. Schulz) Jafri	Brassicaceae	H	A	3500–5000
91.	Christolea pumila (Kurz) Jafri	Brassicaceae	H	A	5000
92.	Christolea scaposa Jafri	Brassicaceae	H	P	4900
93.	Christolea stewartii (T. Anderson) Jafri	Brassicaceae	H	P	3800
94.	Conringia planisiliqua Fischer & Meyer	Brassicaceae	H	A	3000–4500
95.	Crambe cordifolia Steven subsp. kotschyana (Boiss.) Jafri	Brassicaceae	H	P	–
96.	Descurainia sophia (L.) Webb ex Prantl	Brassicaceae	H	A	–
97.	Dilophila salsa Thomson	Brassicaceae	H	P	–
98.	Draba affghanica Boiss.	Brassicaceae	H	P	4000–5100
99.	Draba altaica (C.A. Mey.) Bunge	Brassicaceae	H	P	4000–5000
100.	Draba cachemirica Gand.	Brassicaceae	H	P	4000
101.	Draba ellipsoidea Hook.f. & Thomson	Brassicaceae	H	A	–
102.	Draba falconeri O.E. Schulz	Brassicaceae	H	P	–
103.	Draba glomerata Royle	Brassicaceae	H	P	–
104.	Draba korschinskyi (O. Fedtsch.) Pohle	Brassicaceae	H	P	–
105.	Draba lasiophylla Royle	Brassicaceae	H	P	4000–4800
106.	Draba ludlowiana Jafri	Brassicaceae	H	P	4800
107.	Draba olgae Regel & Schmalh.	Brassicaceae	H	P	4500–5000
108.	Draba oreades Schrenk	Brassicaceae	H	P	–
109.	Draba stenocarpa Hook.f. & Thomson	Brassicaceae	H	P	–
110.	Draba tibetica Hook.f. & Thomson	Brassicaceae	H	P	4000–5000
111.	Erysimum aitchinsonii O. E. Schulz	Brassicaceae	H	P	–
112.	Erysimum altaicum C.A. Mey.	Brassicaceae	H	P	4000

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
113.	Erysimum cachemicum O. Schulz	Brassicaceae	H	P	3300–4500
114.	Erysimum hieraciifolium L.	Brassicaceae	H	P	–
115.	Erysimum melicentae Dunn	Brassicaceae	H	A	–
116.	Erysimum repandum L.	Brassicaceae	H	A	–
117.	Hedinia tibetica (Thomson) Ostenf.	Brassicaceae	H	P	–
118.	Hymenolobus procumbens (L.) Nutt. ex Torrey & Gray	Brassicaceae	H	A	–
119.	Lepidium apetalum Willd.	Brassicaceae	H	B	–
120.	Lepidium capitatum Hook.f. & Thomson	Brassicaceae	H	A	–
121.	Lepidium latifolium L.	Brassicaceae	H	P	–
122.	Malcolmia africana (L.) R. Br.	Brassicaceae	H	A	–
123.	Malcolmia strigosa Boiss.	Brassicaceae	H	A	–
124.	Matthiola flavida Boiss.	Brassicaceae	H	P	–
125.	Megacarpaea bifida Benth.	Brassicaceae	H	P	–
126.	Megacarpaea polyandra Benth.	Brassicaceae	H	P	3500–4500
127.	Parrya exscapa Ledeb.	Brassicaceae	H	P	4000–5500
128.	Parrya minjanensis Rech. f.	Brassicaceae	H	P	3600–4800
129.	Parrya nudicaulis (L.) Regel	Brassicaceae	H	P	4800–5500
130.	Pagaephyton scapiflorum (Hook.f. & Thomson) Marquand & Shaw	Brassicaceae	H	P	4800–5200
131.	Phaeonychium albiflorum (T. Anderson) Jafri	Brassicaceae	H	A	3600–4800
132.	Phaeonychium parryoides (Hook.f. & T. Anderson) O. Schulz	Brassicaceae	H	A	3000–3700
133.	Ptilotrichum canescens (DC.) C.A. Mey.	Brassicaceae	H	P	4500–5200

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
134.	Pycnophilanthus uniflorus (Hook.f. & Thomson) O. Schulz	Brassicaceae	H	P	4500–5400
135.	Sisymbrium brassiciforme C. Meyer	Brassicaceae	H	P	–
136.	Sisymbrium loeselii L.	Brassicaceae	H	A	–
137.	Sisymbrium orientale L.	Brassicaceae	H	A	–
138.	Tauscheria lasiocarpa Fischer ex DC.	Brassicaceae	H	A	3000–4500
139.	Thlaspi arvense L.	Brassicaceae	H	A	–
140.	Thlaspi septigerum (Bunge) Jafri	Brassicaceae	H	A	4500–5000
141.	Torularia humilis (C.A. Mey.) O. Schulz. ex Limpricht	Brassicaceae	H	A	–
142.	Turritis glabra L.	Brassicaceae	H	P	–
143.	Capparis spinosa L.	Capparaceae	Under shrubs	P	–
144.	Viola betonicifolia J. Smith	Violaceae	H	P	–
145.	Viola biflora L.	Violaceae	H	P	–
146.	Viola kunawarensis Royle	Violaceae	H	P	–
147.	Arenaria bryophylla Fernald	Caryophyllaceae	H	P	4200–6100
148.	Arenaria festucoides Royle	Caryophyllaceae	H	P	3500–4500
149.	Arenaria griffithii Boiss.	Caryophyllaceae	H	P	2500–3500
150.	Arenaria neilgherrensis Wight & Arn.	Caryophyllaceae	H	A	–
151.	Arenaria serpyllifolia L.	Caryophyllaceae	H	A	–
152.	Arenaria stracheyi Edgew.	Caryophyllaceae	H	P	3500–4800
153.	Cerastium alpinum L.	Caryophyllaceae	H	P	–
154.	Cerastium cerastoides (L.) Britton	Caryophyllaceae	H	P	–
155.	Cerastium fontanum subsp. trivale (Link) Jalas	Caryophyllaceae	H	P	–
156.	Cerastium glomeratum Thuill.	Caryophyllaceae	H	A	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
157.	Cerastium pusillum Ser.	Caryophyllaceae	H	P	–
158.	Dianthus angulatus Royle ex Benth.	Caryophyllaceae	H	P	–
159.	Dianthus anatolicus Boiss.	Caryophyllaceae	H	P	–
160.	Dianthus chinensis L.	Caryophyllaceae	H	P	–
161.	Dianthus crinitus Smith	Caryophyllaceae	H	P	–
162.	Dianthus deltoides L.	Caryophyllaceae	H	P	–
163.	Dianthus jacquemontii Edgew.	Caryophyllaceae	H	P	–
164.	Gypsophila sedifolia Kurz	Caryophyllaceae	H	P	–
165.	Holosteum umbellatum L.	Caryophyllaceae	H	P	–
166.	Lepyrodiclis holosteoides (C.A. Mey.) Fischer & C.A. Mey.	Caryophyllaceae	H	P	–
167.	Minuartia biflora (L.) Schinz & Thell.	Caryophyllaceae	H	P	–
168.	Minuartia kashmirica (Edgew.) Mattf.	Caryophyllaceae	H	P	–
169.	Myosoton aquaticum (L.) Moench	Caryophyllaceae	H	P	–
170.	Sagina saginoides (L.) Karsten	Caryophyllaceae	H	P	–
171.	Silene amoena L.	Caryophyllaceae	H	P	–
172.	Silene caespitella F. Williams	Caryophyllaceae	H	P	–
173.	Silene conoidea L.	Caryophyllaceae	H	A	–
174.	Silene gonosperma (Rupr.) Bocq. subsp. himalayensis (Rohrb.) Bocq. var. himalayensis Bocq.	Caryophyllaceae	H	P	–
175.	Silene indica Roxb. ex Otth	Caryophyllaceae	H	P	–
176.	Silene madens Majumdar	Caryophyllaceae	H	P	–
177.	Silene moorcroftiana Wall. ex Benth.	Caryophyllaceae	H	P	–
178.	Silene rechingeri Bocq.	Caryophyllaceae	H	P	–
179.	Silene songarica (Fischer, C. Meyer & Ave-Lall.) Bocq.	Caryophyllaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
180.	Silene vulgaris (Moench) Garcke	Caryophyllaceae	H	P	–
181.	Stellaria decumbens Edgew.	Caryophyllaceae	H	P	–
182.	Stellaria graminea L.	Caryophyllaceae	H	P	–
183.	Stellaria media (L.) Vill.	Caryophyllaceae	H	A	–
184.	Stellaria monosperma Buch.–Ham. ex D. Don	Caryophyllaceae	H	P	–
185.	Stellaria subumbellata Edgew. & Hook.f.	Caryophyllaceae	H	A	–
186.	Stellaria tibetica Kurz	Caryophyllaceae	H	A	–
187.	Stellaria uliginosa Murray	Caryophyllaceae	H	P	–
188.	Thylacospermum caespitosum (Cambess) Schischkin	Caryophyllaceae	H	P	–
189.	Vaccaria pyramidata Medikus	Caryophyllaceae	H	A	–
190.	Myricaria albiflora Grierson & Long	Tamaricaceae	S	P	4100
191.	Myricaria dahurica (Willd.) Ehrenb.	Tamaricaceae	S	P	4000
192.	Myricaria germanica (L.) Desv. subsp. alopecuroides (Schrenk) Kitam.	Tamaricaceae	S	P	–
193.	Myricaria prostrata Hook.f. & Thomson ex Benth. & Hook.f.	Tamaricaceae	US	P	–
194.	Myricaria squamosa Desv.	Tamaricaceae	S	P	–
195.	Myrtama elegans (Royle) Ovez. & Kinz.	Tamaricaceae	S	P	3000–4500
196.	Tamarix dioica Roxb. ex Roth	Tamaricaceae	S	P	–
197.	Tamarix indica Willd.	Tamaricaceae	S	P	–
198.	Hypericum perforatum L.	Hypericaceae	H	P	–
199.	Malva parviflora L.	Malvaceae	H	A	–
200.	Malva verticellata L. var. rafiqii S. Abedin	Malvaceae	H	A	–
201.	Linum perenne L.	Linaceae	H	P	–
202.	Peganum harmala L.	Zygophyllaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
203.	Biebersteinia odora Stephen ex Fischer	Biebersteiniaceae	H	P	–
204.	Erodium stephanianum Willd.	Geraniaceae	H	A	–
205.	Erodium tibetanum Edgew. & Hook.f.	Geraniaceae	H	A	–
206.	Geranium collinum Stephan ex Willd.	Geraniaceae	H	P	–
207.	Geranium himalayense Klotzsch	Geraniaceae	H	P	–
208.	Geranium lambertii Sweet.	Geraniaceae	H	P	–
209.	Geranium nepalense Sweet	Geraniaceae	H	P	–
210.	Geranium ocellatum Cambess	Geraniaceae	H	P	–
211.	Geranium pratense L.	Geraniaceae	H	P	–
212.	Geranium sibiricum L.	Geraniaceae	H	P	–
213.	Geranium tuberaria Cambess.	Geraniaceae	H	P	–
214.	Impatiens bicornuta Wall.	Balsaminaceae	H	A	–
215.	Impatiens brachycentra Kar. & Kir.	Balsaminaceae	H	A	–
216.	Impatiens scabrida DC.	Balsaminaceae	H	A	–
217.	Impatiens thomsonii Hook.f.	Balsaminaceae	H	A	–
218.	Dictamnus albus L.	Rutaceae	H	P	–
219.	Rhamnus triquetra (Wall.) Brandis	Rhamnaceae	S	P	–
220.	Astragalus arnoldii Hemsley & Pearson	Fabaceae	H	P	–
221.	Astragalus candollenanus Royle ex Benth.	Fabaceae	S	P	–
222.	Astragalus coluteocarpus Boiss.	Fabaceae	H	P	–
223.	Astragalus confertus Benth. ex Bunge	Fabaceae	H	P	–
224.	Astragalus densiflorus Kar. & Kir.	Fabaceae	H	P	–
225.	Astragalus drasianus H.J. Chowdhery, Uniyal & Balodi	Fabaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
226.	Astragalus falconeri Bunge	Fabaceae	H	P	–
227.	Astragalus frigidus (L.) A Gray	Fabaceae	H	P	–
228.	Astragalus gracilipes Benth. ex Bunge	Fabaceae	H	A	–
229.	Astragalus grahamianus Royle ex Benth.	Fabaceae	H	P	–
230.	Astragalus heydei Baker	Fabaceae	H	P	–
231.	Astragalus himalayanus Klotz.	Fabaceae	H	A	–
232.	Astragalus hoffmeisteri (Klotz.) Ali	Fabaceae	H	P	–
233.	Astragalus ladakhense R.R. Rao & Balodi	Fabaceae	H	P	–
234.	Astragalus ladakensis N.P. Balakr.	Fabaceae	H	P	–
235.	Astragalus leucocephalus Grah. ex Benth.	Fabaceae	US	P	–
236.	Astragalus macropterus DC.	Fabaceae	US	P	–
237.	Astragalus malacophyllus Benth. ex Bugne	Fabaceae	H	P	–
238.	Astragalus maxwelli Royle ex Benth.	Fabaceae	H	P	–
239.	Astragalus melanostachys Benth. ex Bunge	Fabaceae	H	P	–
240.	Astragalus multiceps Wall. ex Benth.	Fabaceae	H	P	–
241.	Astragalus munroi Benth. ex Bunge	Fabaceae	H	P	–
242.	Astragalus nivalis Kar. & Kir.	Fabaceae	H	P	–
243.	Astragalus ophiocarpus Benth. ex Bunge	Fabaceae	H	P	–
244.	Astragalus oplites Benth. ex Parker	Fabaceae	S	P	–
245.	Astragalus oxyodon Baker	Fabaceae	H	P	–
246.	Astragalus peduncularis Royle ex Benth.	Fabaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
247.	Astragalus polyacanthus Royle ex Benth.	Fabaceae	US	P	–
248.	Astragalus rhizanthus Royle ex Benth.	Fabaceae	H	P	–
249.	Astragalus subuliformis DC.	Fabaceae	H	P	–
250.	Astragalus subumbellatus Klotz.	Fabaceae	H	P	–
251.	Astragalus tibetanus Benth. ex Bunge	Fabaceae	H	P	–
252.	Astragalus tribulifolius Benth. ex Bunge	Fabaceae	H	P	–
253.	Astragalus webbianus Grah. ex Benth.	Fabaceae	H	P	–
254.	Astragalus zanskarensis Benth. ex Bunge	Fabaceae	US	P	–
255.	Caragana brevifolia Komarov	Fabaceae	S	P	–
256.	Caragana gerardiana Royle ex Benth.	Fabaceae	S	P	–
257.	Caragana versicolor (Wall.) Benth	Fabaceae	S	P	–
258.	Chesneya cuneata (Benth.) Ali	Fabaceae	H	P	–
259.	Cicer microphyllum Benth.	Fabaceae	H	P	–
260.	Colutea nepalensis Sims.	Fabaceae	S	P	–
261.	Indigofera heterantha Wall. ex Brandis	Fabaceae	S	P	–
262.	Lathyrus sativus L.	Fabaceae	H	A	–
263.	Lens culinaris Medik.	Fabaceae	H	A	–
264.	Lotus corniculatus L.	Fabaceae	H	P	–
265.	Medicago falcata L.	Fabaceae	H	P	–
266.	Medicago lupulina L.	Fabaceae	H	P	–
267.	Medicago polymorpha L.	Fabaceae	H	A	–
268.	Medicago sativa L.	Fabaceae	H	P	–
269.	Medicago x varia Martyn	Fabaceae	H	P	–
270.	Melilotus alba Medik. ex Desr.	Fabaceae	H	A	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
271.	Melilotus officinalis (L.) Pall.	Fabaceae	H	A	–
272.	Oxytropis cachemiriana Cambess.	Fabaceae	H	P	–
273.	Oxytropis chiliophylla Royle ex Benth.	Fabaceae	H	P	–
274.	Oxytropis densa Benth. ex Bunge	Fabaceae	H	P	–
275.	Oxytropis humifusa Kar. & Kir.	Fabaceae	H	P	–
276.	Oxytropis hypoglottoides (Baker) Ali	Fabaceae	H	P	–
277.	Oxytropis lapponica (Wahl.) Gay.	Fabaceae	H	P	–
278.	Oxytropis microphylla (Pallas) DC.	Fabaceae	H	P	–
279.	Oxytropis mollis Royle ex Benth.	Fabaceae	H	P	–
280.	Oxytropis shivai Aswal, Goel and Mehrotra	Fabaceae	H	P	–
281.	Oxytropis tatarica Cambess ex Bunge.	Fabaceae	H	P	–
282.	Pisum sativum L. var. arvense (L.) Poir.	Fabaceae	H	A	–
283.	Robina pseudoacacia L.	Fabaceae	T	P	–
284.	Sophora alopecuroides L.	Fabaceae	US	P	–
285.	Sophora moorcroftiana (Benth.) Baker	Fabaceae	S	P	–
286.	Stracheya tibetica Benth.	Fabaceae	H	P	–
287.	Thermopsis barbata Royle	Fabaceae	H	P	–
288.	Thermopsis inflata Cambess	Fabaceae	H	P	–
289.	Trifolium pratense L.	Fabaceae	H	P	–
290.	Trifolium repens L.	Fabaceae	H	P	–
291.	Trigonella cachemiriana Cambess.	Fabaceae	H	P	–
292.	Trigonella corniculata (L.) L.	Fabaceae	H	P	–
293.	Trigonella emodi Benth.	Fabaceae	H	A	–
294.	Vicia faba L.	Fabaceae	H	A	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
295.	Vicia sativa L.	Fabaceae	H	A	–
296.	Vicia tenuifolia Roth	Fabaceae	C	P	–
297.	Agrimonia pilosa Ledeb. subsp. japonica Hara	Rosaceae	H	A	–
298.	Chamaerhodos sabulosa Bunge	Rosaceae	H	P	3700–4300
299.	Cotoneaster gilgitensis Klotz.	Rosaceae	S	P	3000–3450
300.	Filipendula vestita (Wall. ex G. Don) Maxim.	Rosaceae	H	P	3400–3600
301.	Potentilla anserina L.	Rosaceae	H	P	3800–3900
302.	Potentilla arbuscula D. Don var. pumila (Hook. f.) Hand.–Mazz.	Rosaceae	S	P	4000–4800
303.	Potentilla atrosanguinea Lodd.	Rosaceae	H	P	4200
304.	Potentilla bifurca L. subsp. moorcroftii (Wall. ex Lehm.) Sojak ex Panigrahi	Rosaceae	H	P	4100–4800
305.	Potentilla curviseta Hook. f.	Rosaceae	H	P	3500–4100
306.	Potentilla desertorum Bunge	Rosaceae	H	P	3600–4700
307.	Potentilla gelida C.A. Mey.	Rosaceae	H	P	3500–5200
308.	Potentilla gerardiana Lindl. ex Lehm.	Rosaceae	H	P	3100–4100
309.	Potentilla multifida L.	Rosaceae	H	P	2600–3900
310.	Potentilla nivea L.	Rosaceae	H	P	4800
311.	Potentilla salesoviana Stephan	Rosaceae	S	P	3600–4200
312.	Potentilla sericea L.	Rosaceae	H	P	4300–4500
313.	Prunus armeniaca L.	Rosaceae	T	P	3000–3100
314.	Rosa brunonii Lindl.	Rosaceae	C	P	3500
315.	Rosa macrophylla Lindl.	Rosaceae	S	P	3400
316.	Rosa webbiana Wall. ex Royle	Rosaceae	S	P	3400–3500
317.	Rubus saxatilis L.	Rosaceae	H	P	3400–3570
318.	Sibbaldia parviflora Willd.	Rosaceae	H	P	3500

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
319.	Sibbaldia tetrandra Bunge	Rosaceae	H	P	6000
320.	Bergenia ciliata Sternb.	Saxifragaceae	H	P	3450
321.	Bergenia stracheyi (Hook.f. & Thomson) Engl.	Saxifragaceae	H	P	3800
322.	Saxifraga cernua L.	Saxifragaceae	H	P	6000
323.	Saxifraga flagellaris Willd.	Saxifragaceae	H	P	4200–4500
324.	Saxifraga hirculus L.	Saxifragaceae	H	P	4800
325.	Saxifraga jacquemontiana Decne.	Saxifragaceae	H	P	5200
326.	Saxifraga oppositifolia L.	Saxifragaceae	H	P	3800
327.	Saxifraga pulvinaria H.Sm.	Saxifragaceae	H	A	3600–5000
328.	Saxifraga sibirica L.	Saxifragaceae	H	A	3500–4100
329.	Parnassia laxmanni Pall. ex Schult.	Parnassiaceae	H	A	3500–4200
330.	Parnassia palustris L.	Parnassiaceae	H	A	4000
331.	Ribes alpestre Wall. ex Decne.	Grossulariaceae	S	P	3800
332.	Ribes glaciale Wall.	Grossulariaceae	S	P	2500
333.	Ribes orientale Desf.	Grossulariaceae	S	P	–
334.	Hylotelephium ewersii (Ledeb.) Ohba	Crassulaceae	H	P	4000
335.	Orostachys thyrsoiflora Fisch.	Crassulaceae	H	B	4000
336.	Pseudosedum lievenii (Ledeb.) A. Berger	Crassulaceae	H	P	3720–3950
337.	Rhodiola fastigiata (Hook.f. & Thomson) S.H. Fu	Crassulaceae	H	P	–
338.	Rhodiola heterodonta (Hook.f. & Thomson) A. Bor.	Crassulaceae	H	P	4000–4500
339.	Rhodiola imbricata Edgew.	Crassulaceae	H	P	4500–5100
340.	Rhodiola quadrifida (Pall.) Schrenk	Crassulaceae	H	P	–
341.	Rhodiola tibetica (Hook.f. & Thomson) Fu	Crassulaceae	H	P	4200–4560
342.	Rhodiola wallichiana (Hook.) S.H. Fu	Crassulaceae	H	P	4500

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
343.	Rosularia alpestris (Kar. & Kir.) A. Bor.	Crassulaceae	H	P	3200–4100
344.	Sedum fischeri Raym.–Hamet	Crassulaceae	H	A	–
345.	Hippuris vulgaris L.	Hippuridaceae	H	P	–
346.	Callitriche palustris L.	Callitrichaceae	H	P	–
347.	Callitriche stagnalis Scop.	Callitrichaceae	H	P	–
348.	Epilobium amurense Hausskn.	Onagraceae	H	P	3700
349.	Epilobium anagallidifolium Lam.	Onagraceae	H	P	3400–3975
350.	Epilobium angustifolium L.	Onagraceae	H	P	2600–4000
351.	Epilobium brevifolium D. Don	Onagraceae	H	P	2900–3400
352.	Epilobium chitralense Raven	Onagraceae	H	P	–
353.	Epilobium cylindricum D. Don	Onagraceae	H	P	4000
354.	Epilobium glaciale P.H. Raven	Onagraceae	H	P	–
355.	Epilobium hirsutum L.	Onagraceae	H	P	3600
356.	Epilobium ladakhianum T.K. Paul	Onagraceae	H	P	–
357.	Epilobium latifolium L.	Onagraceae	H	P	4000
358.	Epilobium latifolium L. subsp. speciosum (Decne.) Raven	Onagraceae	H	P	4000
359.	Epilobium leiophyllum Hausskn.	Onagraceae	H	P	3330–4100
360.	Epilobium minutiflorum Hausskn	Onagraceae	H	P	4000
361.	Epilobium palustre L.	Onagraceae	H	P	4200
362.	Epilobium parviflorum Schreber	Onagraceae	H	P	–
363.	Epilobium roseum Schreb.	Onagraceae	H	P	3375–4200
364.	Epilobium royleanum Hausskn.	Onagraceae	H	P	3100–3750
365.	Epilobium tibetanum Hausskn.	Onagraceae	H	P	4500
366.	Bupleurum falcatum L.	Apiaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
367.	Bupleurum gracillimum Klotzsch	Apiaceae	H	P	3950
368.	Bupleurum hamiltonii Balakr.	Apiaceae	H	P	–
369.	Bupleurum jucundum Kurz	Apiaceae	H	P	3100–3500
370.	Bupleurum longicaule DC.	Apiaceae	H	P	–
371.	Bupleurum subuniflorum Boiss. & Heldr.	Apiaceae	H	A	4000
372.	Bupleurum thomsonii C.B. Clarke	Apiaceae	H	P	–
373.	Carum carvi L.	Apiaceae	H	B	3700–4200
374.	Chaerophyllum acuminatum Lindl.	Apiaceae	H	A	4200
375.	Chaerophyllum villosum Wall. ex DC.	Apiaceae	H	P	3400
376.	Eriocyclus thomsonii (C.B. Clarke) H. Wolff	Apiaceae	H	P	–
377.	Eryngium billardieri Delar.	Apiaceae	H	P	–
378.	Ferula jaeschkeana Vatke	Apiaceae	S	P	3400–3500
379.	Foeniculum vulgare Mill.	Apiaceae	H	P	2600
380.	Heracleum candicans Wall. ex DC.	Apiaceae	H	P	3900
381.	Heracleum pinnatum C.B. Clarke	Apiaceae	H	P	3000–3980
382.	Heracleum thomsonii C.B. Clarke	Apiaceae	H	P	4400
383.	Ligusticum elatum (Edgew.) C.B. Clarke	Apiaceae	H	P	3530–4300
384.	Ligusticum thomsonii C.B. Clarke	Apiaceae	H	P	4800
385.	Pleurospermum brunonis (DC.) C.B. Clarke	Apiaceae	H	A	–
386.	Pleurospermum candollei Benth. ex C.B. Clarke	Apiaceae	H	B	4800–4250
387.	Pleurospermum hookeri C.B. Clarke	Apiaceae	H	A	4200–5500

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
388.	Pleurospermum lindleyanum (Klotzsch & Garcke) B. Fedtsch.	Apiaceae	H	A	3450–4800
389.	Pleurospermum stellatum (D. Don) Benth. ex C.B. Clarke	Apiaceae	H	B	4200
390.	Prangos pabularia Lindl.	Apiaceae	H	P	3250
391.	Selinum vaginatum (Edgew.) C.B. Clarke	Apiaceae	H	P	3375–3700
392.	Sium sisarum L.	Apiaceae	H	P	2900–3100
393.	Trachydium roylei Lindl.	Apiaceae	H	A	3550
394.	Vicatia coniifolia DC.	Apiaceae	H	A	3800
395.	Lonicera asperifolia (Decne.) Hook.f. & Thomson	Caprifoliaceae	S	P	4050
396.	Lonicera coerulea L. var. altaica Sweet ex Dippal	Caprifoliaceae	S	P	3310
397.	Lonicera heterophylla Decne.	Caprifoliaceae	S	P	2650
398.	Lonicera microphylla Willd. ex Roem & Schult.	Caprifoliaceae	S	P	–
399.	Lonicera obovata Royle ex Hook.f. & Thomson	Caprifoliaceae	S	P	–
400.	Lonicera purpurascens (Decne.) Walp.	Caprifoliaceae	S	P	4500
401.	Lonicera semenovii Regel	Caprifoliaceae	S	P	4600
402.	Lonicera spinosa (Jacquem. ex Decne.) Walp.	Caprifoliaceae	S	P	3975
403.	Lonicera webbiana Wall. ex DC.	Caprifoliaceae	S	P	4400
404.	Galium aparine L.	Rubiaceae	H	A	3150–3375
405.	Galium boreale L.	Rubiaceae	H	P	2700
406.	Galium serpylloides Royle ex Hook.f.	Rubiaceae	H	P	3600
407.	Galium tibeticum (Bunge) Aswal & Mehrotra	Rubiaceae	H	A	3600–4350
408.	Galium tricornutum Dandy	Rubiaceae	H	A	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
409.	Galium verum L.	Rubiaceae	H	A	4000
410.	Rubia cordifolia L.	Rubiaceae	H	P	3200
411.	Rubia tibetica Hook.f.	Rubiaceae	H	P	4000
412.	Valeriana himalayana Grubov	Valerianaceae	H	P	4500
413.	Valeriana jatamansi Jones	Valerianaceae	H	P	–
414.	Valeriana stracheyi C.B. Clarke	Valerianaceae	H	P	–
415.	Dipsacus mitis D. Don	Dipsacaceae	H	P	–
416.	Morina coulteriana Royle	Morinaceae	H	P	3500
417.	Achillea millefolium L.	Asteraceae	H	P	3500
418.	Acroptilon repens (L.) DC.	Asteraceae	H	P	3500
419.	Anaphalis contorta (D. Don) Hook.f.	Asteraceae	H	A	3100
420.	Anaphalis nepalensis (Spreng.) Hand.–Mazz.	Asteraceae	H	A	4000
421.	Anaphalis staintonii Georgiadou	Asteraceae	H	P	4500
422.	Anaphalis triplinervis (Sims.) C.B. Clarke	Asteraceae	H	P	3200
423.	Anaphalis virgata Thomson ex C.B. Clarke	Asteraceae	H	P	2500
424.	Arctium lappa L.	Asteraceae	H	P	3100
425.	Artemisia absinthium L.	Asteraceae	H	P	2900
426.	Artemisia biennis Willd.	Asteraceae	H	A	4500
427.	Artemisia capillaris Thunb.	Asteraceae	H	A	3110
428.	Artemisia dracunculus L.	Asteraceae	H	P	4300
429.	Artemisia dubia Wall. ex Bess. var. subdigitata (Mattf.) Y.R. Ling	Asteraceae	H	P	3800
430.	Artemisia gmelinii Weber ex Stechm.	Asteraceae	H	P	3800
431.	Artemisia japonica Thunb.	Asteraceae	H	P	3200
432.	Artemisia macrocephala Jacquem. ex Besser	Asteraceae	H	A	3800

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
433.	Artemisia maritima L. var. thomsoniana C.B. Clarke	Asteraceae	H	P	3800
434.	Artemisia minor Jacquem. ex Besser	Asteraceae	H	P	5000
435.	Artemisia persica Boiss.	Asteraceae	H	P	3200
436.	Artemisia salsoloides Willd.	Asteraceae	H	P	3600
437.	Artemisia sieversiana Ehrh.	Asteraceae	H	A	4200
438.	Artemisia stracheyi Hook.f. & Thomson ex C.B. Clarke	Asteraceae	H	P	–
439.	Artemisia stricta Edgew.	Asteraceae	H	A	3900
440.	Artemisia tournefortiana Rchb.	Asteraceae	H	A	3200
441.	Artemisia wallichiana Bess. forma nitida (Pamp.) B.D. Naithani	Asteraceae	H	P	4100
442.	Aster altaicus Willd.	Asteraceae	H	P	3700
443.	Aster diplostephioides (DC.) C.B. Clarke	Asteraceae	H	P	4000
444.	Aster falconeri (C.B. Clarke) Hutch.	Asteraceae	H	P	3600
445.	Aster flaccidus Bunge	Asteraceae	H	P	4050
446.	Blumea bifoliata (L.) DC.	Asteraceae	H	A	3800
447.	Brachyactis pubescens (DC.) Aitch. & C.B. Clarke	Asteraceae	H	A	4100
448.	Brachyactis roylei (DC.) Wendelbo	Asteraceae	H	A	4000
449.	Breea arvensis (L.) Less.	Asteraceae	H	P	–
450.	Calendula officinalis L.	Asteraceae	H	A	3500
451.	Carduus edelbergii Rchb.f.	Asteraceae	H	B	–
452.	Centaurea cyanus L.	Asteraceae	H	A	3600
453.	Centaurea depressa M. Bieb.	Asteraceae	H	A	–
454.	Chrysanthemum pyrethroides (Kar. & Kir.) B.Fedtsch–Rostit.	Asteraceae	H	P	4000

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
455.	Chrysanthemum stoliczkai C.B. Clarke	Asteraceae	H	P	4100
456.	Chrysanthemum tibeticum Hook.f. & Thomson ex C.B. Clarke	Asteraceae	H	P	4500
457.	Cichorium intybus L.	Asteraceae	H	P	2500
458.	Cirsium wallichii DC.	Asteraceae	H	P	3900
459.	Conyza bonariensis (L.) Cronq.	Asteraceae	H	P	–
460.	Cousinia falconeri Hook.f.	Asteraceae	H	P	3600
461.	Cousinia thomsonii C.B. Clarke	Asteraceae	H	P	–
462.	Cremanthodium ellisii (Hook.f.) Kitam.	Asteraceae	H	A	4000
463.	Crepis multicaulis Ledeb.	Asteraceae	H	P	4000
464.	Crepis sancta (L.) Babc.	Asteraceae	H	A	4400–4500
465.	Echinops niveus Wall. ex DC.	Asteraceae	H	P	–
466.	Erigeron acer L. var. multicaulis (Wall. ex DC.) C.B. Clarke	Asteraceae	H	A	2800
467.	Erigeron bellidioides (Buch.–Ham. ex D. Don) Benth. ex C.B. Clarke	Asteraceae	H	P	–
468.	Erigeron multiradiatus (Lindl. ex DC.) Benth. ex C.B. Clarke	Asteraceae	H	P	3900
469.	Filago hurdwara (Wall. ex DC.) Wagenitz	Asteraceae	H	A	4000
470.	Galinsoga parviflora Cav.	Asteraceae	H	A	2700
471.	Gnaphalium hypoleucum DC.	Asteraceae	H	P	–
472.	Gnaphalium leuteoalbum L. subsp. affine (D. Don) Koster	Asteraceae	H	P	3800
473.	Gnaphalium stewartii C.B. Clarke ex Hook.f.	Asteraceae	H	P	3500
474.	Gnaphalium thomsonii Hook.f.	Asteraceae	H	P	3500
475.	Heteropappus holohermaphroditus Grierson	Asteraceae	H	P	3500

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
476.	Hieracium crocatum Fries	Asteraceae	H	P	3800
477.	Hieracium umbellatum L.	Asteraceae	H	P	2700
478.	Hieracium virosum Pallas	Asteraceae	H	P	2700
479.	Hieracium vulgatum Fries	Asteraceae	H	P	–
480.	Inula falconeri Hook.f.	Asteraceae	H	A	4200
481.	Inula obtusifolia Kern	Asteraceae	H	P	2700
482.	Inula rhizocephala Schrenk. var. rhizocephaloides (C.B. Clarke) Kitam.	Asteraceae	H	P	–
483.	Inula royleana DC.	Asteraceae	H	P	–
484.	Koelpinia linearis Pall.	Asteraceae	H	A	3110
485.	Lactuca decipiens C.B. Clarke	Asteraceae	H	P	3100–3300
486.	Lactuca dissecta D. Don	Asteraceae	H	A	3200
487.	Lactuca dolichophylla Kitam.	Asteraceae	H	A	3200
488.	Lactuca orientalis (Boiss.) Boiss.	Asteraceae	H	P	–
489.	Lactuca sativa L.	Asteraceae	H	A	3250
490.	Lactuca serriola Turner	Asteraceae	H	A	2700
491.	Lactuca tatarica (L.) C.A. Mey.	Asteraceae	H	A	4000
492.	Leontopodium brachyactis Gand.	Asteraceae	H	P	4535
493.	Leontopodium nanum (Hook.f. & Thomson) Hand.–Mazz.	Asteraceae	H	P	3600
494.	Logfia arvensis (L.) Holub	Asteraceae	H	A	2900
495.	Matricaria recutita L.	Asteraceae	H	A	–
496.	Picris hieracioides L. subsp. kaimaensis Kitam.	Asteraceae	H	A	3000
497.	Psychrogeton andryaloides (DC.) Novopkr. ex Krqasch.	Asteraceae	H	P	4500
498.	Saussurea atkinsoni C.B. Clarke	Asteraceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
499.	Saussurea bracteata Decne.	Asteraceae	H	P	4700
500.	Saussurea caespitosa (DC.) Wall. ex Sch.–Bip.	Asteraceae	H	P	4500
501.	Saussurea ceratocarpa Decne.	Asteraceae	H	A	–
502.	Saussurea depsangensis Pamp.	Asteraceae	H	P	4800–5200
503.	Saussurea glacialis Herd.	Asteraceae	H	P	5500
504.	Saussurea gnaphalodes (Royle ex DC.) Sch.–Bip.	Asteraceae	H	P	5000
505.	Saussurea jacea (Klotz.) C.B. Clarke	Asteraceae	H	P	4100
506.	Saussurea nana (Pamp.) Pamp.	Asteraceae	H	A	–
507.	Saussurea subulata C.B. Clarke	Asteraceae	H	P	–
508.	Saussurea thomsonii C.B. Clarke	Asteraceae	H	P	–
509.	Scorzonera virgata DC.	Asteraceae	H	P	4000
510.	Senecio desfontainei Druce	Asteraceae	H	A	–
511.	Senecio dubitabilis C. Jeffrey & Y.L. Chen	Asteraceae	H	A	4500
512.	Senecio krascheninnikovii Schischk.	Asteraceae	H	A	4000
513.	Senecio ladakhensis H.J. Chowdhery, B.P. Uniyal & R. Mathur	Asteraceae	H	A	3500
514.	Senecio laetus Edgew.	Asteraceae	H	P	3570
515.	Senecio tibeticus Hook.f.	Asteraceae	H	P	–
516.	Sonchus asper (L.) Hill.	Asteraceae	H	A	–
517.	Sonchus oleraceus L.	Asteraceae	H	A	3000
518.	Tanacetum artemisioides Sch.–Bip. ex Hook.f.	Asteraceae	H	P	4000
519.	Tanacetum dolichophyllum (Kitam.) Kitam.	Asteraceae	H	P	4500
520.	Tanacetum fruticosum Ledeb.	Asteraceae	H	P	4850

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
521.	Tanacetum gracile Hook.f. & Thomson	Asteraceae	H	P	3500
522.	Tanacetum nanum C.B. Clarke	Asteraceae	H	P	3310–3800
523.	Tanacetum tibeticum Hook.f. & Thomson ex C.B. Clarke	Asteraceae	H	P	4500
524.	Tanacetum tomentosum DC.	Asteraceae	H	P	4500
525.	Taraxacum leucanthum (Ledeb.) Ledeb.	Asteraceae	H	P	4600
526.	Taraxacum officinale Weber	Asteraceae	H	P	–
527.	Tragopogon dubius Scop.	Asteraceae	H	P	3700
528.	Tragopogon sinuatus Avé-Lall.	Asteraceae	H	P	–
529.	Tricholepis tibetica Hook.f. & Thomson ex C.B. Clarke	Asteraceae	H	A	–
530.	Tussilago farfara L.	Asteraceae	H	P	–
531.	Waldheimia glabra (Decne.) Regel	Asteraceae	H	P	4975
532.	Waldheimia nivea (Hook.f. & Thomson ex C.B. Clarke) Regel	Asteraceae	H	P	4560
533.	Waldheimia stoliczkae (C.B. Clarke) Ostanf.	Asteraceae	H	P	4350
534.	Waldheimia tomentosa (Decne.) Regel	Asteraceae	H	P	4800
535.	Waldheimia vestita (Hook.f. & Thomson ex C.B. Clarke) Pamp.	Asteraceae	H	P	4000
536.	Xanthium indicum Koenig	Asteraceae	H	P	2700
537.	Youngia glauca Edgew.	Asteraceae	H	A	–
538.	Youngia tenuifolia (Willd.) Bebc. & Stebbins.	Asteraceae	H	P	4300
539.	Campanula alsinoides Hook.f. & Thomson	Campanulaceae	H	P	2400
540.	Campanula argyrotricha Wall. ex A. DC.	Campanulaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
541.	Campanula aristata Wall.	Campanulaceae	H	P	3425
542.	Campanula cana Wall.	Campanulaceae	H	P	3500
543.	Campanula cashmeriana Royle	Campanulaceae	H	P	–
544.	Campanula pallida Wall.	Campanulaceae	H	A	3300–3400
545.	Codonopsis ovata Benth.	Campanulaceae	H	A	3800–4100
546.	Codonopsis rotundifolia Benth.	Campanulaceae	H	P	3300
547.	Acantholimon lycopodioides (Girard) Boiss.	Plumbaginaceae	S	P	4400
548.	Limonium macrorhabdon (Boiss) O. Ktze.	Plumbaginaceae	H A	A	3600
549.	Anagallis arvensis L.	Primulaceae	H	A	3000–3100
550.	Androsace aizoon Duby	Primulaceae	H	A	3330
551.	Androsace mucronifolia Watt	Primulaceae	H	P	3500
552.	Androsace rotundifolia Hardw.	Primulaceae	H	P	2900
553.	Androsace sempervivoides Jacq. ex Dyby	Primulaceae	H	P	3950
554.	Glaux maritima L.	Primulaceae	H	P	4600
555.	Primula elliptica Royle	Primulaceae	H	P	
556.	Primula macrophylla D. Don	Primulaceae	H	P	5000
557.	Primula minutissima Jacquem. ex Duby	Primulaceae	H	P	3900
558.	Primula nutans Georgi	Primulaceae	H	A	4000
559.	Primula rosea Royle	Primulaceae	H	P	6000
560.	Trachomitum venetum (L.) Woodson	Apocynaceae	H	P	–
561.	Cynanchum acutum L.	Asclepiadaceae	TW	P	3000
562.	Vincetoxicum hirundinaria subsp. hirundinaria Medicusin	Asclepiadaceae	H	P	2800
563.	Vincetoxicum hirundinaria Medicus subsp. glaucum (Wall. ex Wight) Hara	Asclepiadaceae	H	A	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
564.	Centaurium meyeri Druce	Gentianaceae	H	A	–
565.	Gentiana algida Pall. var. nubigena (Edgew.) Kusn.	Gentianaceae	H	P	4500
566.	Gentiana aquatica L.	Gentianaceae	H	A	3500–3700
567.	Gentiana aquatica L. var. pseudoaquatica (Kusn.) S. Agrawal	Gentianaceae	H	A	4200
568.	Gentiana crassuloides Bureau & Franch.	Gentianaceae	H	A	3400
569.	Gentiana marginata (D. Don) Griseb.	Gentianaceae	H	A	3110–4109
570.	Gentiana marginata (D. Don) Griseb. var. hugelii (Griseb.) S. Agrawal	Gentianaceae	H	A	–
571.	Gentiana prostrata Haenke	Gentianaceae	H	A	4600
572.	Gentiana tianshanica Rupr.	Gentianaceae	H	A	3300–4200
573.	Gentianella aurea (L.) Harry Sm. ex Hyl.	Gentianaceae	H	A	3250
574.	Gentianella moorcroftiana (Wall. ex G. Don) Airy Shaw	Gentianaceae	H	A	3800
575.	Gentianella tenella (Rottb.) Börner	Gentianaceae	H	A	3800–4000
576.	Gentianella thomsonii (C.B. Clarke) U.C. Bhattach. & S. Agrawal	Gentianaceae	H	P	4600
577.	Gentianopsis detonsa (Rottb.) Ma	Gentianaceae	H	A	3850–4100
578.	Gentianopsis paludosa (Munro ex Hook.f.) Ma	Gentianaceae	H	A	3600–4500
579.	Jaeschkea canaliculata (Royle ex G. Don.) Knobl.	Gentianaceae	H	B	3500
580.	Jaeschkea oligosperma (Griseb.) Knobl.	Gentianaceae	H	A	3100–3500
581.	Lomatogonium brachyantherum (C.B. Clarke) Fernald	Gentianaceae	H	A	3950–4600

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
582.	Lomatogonium carinthiacum (Wulfen) Rchb.	Gentianaceae	H	A	4500
583.	Lomatogonium spathulatum (A. Kern.) Fernald	Gentianaceae	H	A	3800
584.	Swertia cordata (Wall. ex G. Don) C.B. Clarke	Gentianaceae	H	A	3800
585.	Swertia petiolata D. Don	Gentianaceae	H	P	3300
586.	Swertia thomsonii C.B. Clarke	Gentianaceae	H	P	2940
587.	Actinocarya tibetica Benth.	Boraginaceae	H	A	4600
588.	Anchusa arevnsis subsp. orientalis (L.) Nordh.	Boraginaceae	H	A	2800
589.	Arnebia euchroma (Royle ex Benth.) I.M. Johnst.	Boraginaceae	H	P	4800
590.	Arnebia euchroma (Royle ex Benth.) I.M. Johnst. var. grandis (Bornm.) Kazmi	Boraginaceae	H	P	4800
591.	Arnebia guttata Bunge	Boraginaceae	H	P	3400–4000
592.	Arnebia guttata Bunge var. thomsonii (C.B. Clarke) Kazmi	Boraginaceae	H	P	3800
593.	Asperugo procumbens L.	Boraginaceae	H	A	–
594.	Cynoglossum glochidiatum Wall. ex Benth.	Boraginaceae	H	A	2770
595.	Cynoglossum zeylanicum (Vahl.) Thunb. ex Lehm.	Boraginaceae	H	P	3110–3225
596.	Eritrichium canum (Benth.) Kitam.	Boraginaceae	H	P	4500
597.	Eritrichium fruticosum Klotz.	Boraginaceae	H	P	4000–4200
598.	Eritrichium nanum (Vill.) Schrad. subsp. villosum (Ledeb.) Brand	Boraginaceae	H	P	4150
599.	Eritrichium spathulatum (Benth.) C.B. Clarke	Boraginaceae	H	P	4800

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
600.	Eritrichium spathulatum (Benth.) C.B. Clarke var. thomsonii (C.B. Clarke) Kazmi	Boraginaceae	H	P	5000
601.	Hackelia deflexa (Wahlenb.) Opiz	Boraginaceae	H	A	–
602.	Lappula barbata (M.–Bieb.) Gurke var. cariensis (Boiss.) Brand	Boraginaceae	H	A	3400–3950
603.	Lappula patula (Lehm.) Ascherson ex Gurke	Boraginaceae	H	A	3110
604.	Lasiocaryum diffusum (Brand) I.M. Johnst.	Boraginaceae	H	A	3900
605.	Lindelofia longiflora (Benth.) Baill.	Boraginaceae	H	P	3100–4000
606.	Lindelofia stylosa (Kar. & Kir.) Brand	Boraginaceae	H	P	3400
607.	Mattiastrum thomsonii (C.B. Clarke) Kazmi	Boraginaceae	H	P	3000
608.	Mattiastrum tibeticum (C.B. Clarke) Brand.	Boraginaceae	H	A	3800
609.	Microula tibetica Benth. & Hook.f.	Boraginaceae	H	P	5000
610.	Myosotis stricta Link ex Roem. & Schult.	Boraginaceae	H	A	3400–3570
611.	Onosma hispidum Wall. ex D. Don	Boraginaceae	H	P	–
612.	Pseudomertensia echioides Reidl.	Boraginaceae	H	P	3000–3900
613.	Rochelia rectipes Stock	Boraginaceae	H	A	–
614.	Rochelia stylaris Boiss.	Boraginaceae	H	A	–
615.	Trigonotis rotundifolia Benth. ex C.B. Clarke	Boraginaceae	H	P	4000
616.	Trigonotis tibetica (C.B. Clarke) I.M. Johnst.	Boraginaceae	H	P	–
617.	Convolvulus arvensis L.	Convolvulaceae	H	P	4000
618.	Cuscuta capitata Roxb.	Cuscutaceae	H	A	–
619.	Cuscuta europaea L.	Cuscutaceae	H	A	4000
620.	Datura stramonium L.	Solanaceae	H	A	2900
621.	Hyoscyamus niger L.	Solanaceae	H	B	3200
622.	Hyoscyamus pusillus L.	Solanaceae	H	P	4000

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
623.	Lycium ruthenicum Murray	Solanaceae	S	P	3275
624.	Nicotiana rustica L.	Solanaceae	H	A	2900–3000
625.	Physochlaina praealta (Decne.) Miers.	Solanaceae	H	B	–
626.	Solanum nigrum L.	Solanaceae	H	A	3000
627.	Euphrasia alba Pennell	Scrophulariaceae	H	A	3400
628.	Euphrasia flabellata Pennell	Scrophulariaceae	H	A	3100–4000
629.	Euphrasia himalayica Wettst.	Scrophulariaceae	H	A	3200
630.	Euphrasia jaeschkei Wettst.	Scrophulariaceae	H	A	3400–3500
631.	Euphrasia laxa Pennell	Scrophulariaceae	H	A	–
632.	Euphrasia paucifolia Wettst.	Scrophulariaceae	H	A	3500–4200
633.	Euphrasia pectinata Ten.	Scrophulariaceae	H	A	3350–3900
634.	Euphrasia platyphylla Pennell	Scrophulariaceae	H	A	–
635.	Euphrasia remota Pennell	Scrophulariaceae	H	A	3200–3500
636.	Euphrasia schlagintweitii Wettst.	Scrophulariaceae	H	A	3110
637.	Lagotis cashmeriana (Royle ex Benth.) Rupr.	Scrophulariaceae	H	P	3800
638.	Lagotis globosa (Kurz.) Hook.f.	Scrophulariaceae	H	P	–
639.	Lagotis kunawurensis (Royle ex Benth.) Rupr.	Scrophulariaceae	H	P	3900
640.	Lancea tibetica Hook.f. & Thomson	Scrophulariaceae	H	A	3500
641.	Leptorhabdos parviflora (Benth.) Benth.	Scrophulariaceae	H	P	2800–4100
642.	Limosella aquatica L.	Scrophulariaceae	H	P	–
643.	Linaria dalmatica (L.) Mill.	Scrophulariaceae	H	A	2500
644.	Pedicularis bicornuta Klotzsch	Scrophulariaceae	H	A	3900–4500
645.	Pedicularis brevifolia D. Don	Scrophulariaceae	H	A	4400–4700
646.	Pedicularis cheilanthifolia Schrenk	Scrophulariaceae	H	A	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
647.	Pedicularis cheilanthifolia Schrenk var. purpurea (Pennell) Tsoong ex T. Husain & Agnihotri	Scrophulariaceae	H	A	4500
648.	Pedicularis cheilanthifolia Schrenk var. albida (Pennell) Tsoong	Scrophulariaceae	H	A	3400
649.	Pedicularis gracilis Wall. ex Benth.	Scrophulariaceae	H	A	3200
650.	Pedicularis heydei Prain	Scrophulariaceae	H	A	5900
651.	Pedicularis longiflora Rudolph var. tubiformis (Klotzsch) Tsoong	Scrophulariaceae	H	P	4500
652.	Pedicularis mollis Wall. ex Benth.	Scrophulariaceae	H	A	4200
653.	Pedicularis oederi Vahl	Scrophulariaceae	H	P	–
654.	Pedicularis pectinata Wall. ex Benth.	Scrophulariaceae	H	P	3200
655.	Pedicularis pectinata Wall. ex Benth. subsp. bipinnatifid Pennell	Scrophulariaceae	H	P	3200
656.	Pedicularis punctata Decne.	Scrophulariaceae	H	A	3600
657.	Pedicularis pycnantha Boiss. subsp. cuspidata Pennell	Scrophulariaceae	H	A	–
658.	Pedicularis rhinanthoides Schrenk ex Fisch. & C.A. Mey.	Scrophulariaceae	H	P	3200–4200
659.	Pedicularis siphonantha D. Don	Scrophulariaceae	H	P	3350
660.	Scrophularia dentata Royle ex Benth.	Scrophulariaceae	H	A	4300–4560
661.	Scrophularia koelzii Pennell	Scrophulariaceae	H	P	3500
662.	Scrophularia nudata Pennell	Scrophulariaceae	H	P	3900
663.	Scrophularia scabiosifolia Benth.	Scrophulariaceae	H	P	3850
664.	Verbascum thapsus L.	Scrophulariaceae	H	P	3850
665.	Veronica alpina subsp. pumila (All.) Dostál	Scrophulariaceae	H	P	3400–4500

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
666.	Veronica anagallis-aquatica L.	Scrophulariaceae	H	P	3400
667.	Veronica beccabunga subsp. muscosa (Korsh.) Elenevsky	Scrophulariaceae	H	P	3975
668.	Veronica biloba L.	Scrophulariaceae	H	A	3110–4025
669.	Veronica hispidula Boiss. & A. Huet	Scrophulariaceae	H	A	–
670.	Veronica koelzii Pennell	Scrophulariaceae	H	P	3500
671.	Veronica lanosa Royle ex Benth.	Scrophulariaceae	H	P	3200–3300
672.	Veronica macrostemon Bunge ex Ledeb.	Scrophulariaceae	H	P	–
673.	Veronica salina Schur	Scrophulariaceae	H	A	3000–3700
674.	Veronica secunda Pennell	Scrophulariaceae	H	A	–
675.	Veronica serpyllifolia L.,	Scrophulariaceae	H	P	–
676.	Orobanche alba Stephon ex Willd.	Orobanchaceae	H	A	3000
677.	Orobanche cernua Loeffl.	Orobanchaceae	H	A	–
678.	Orobanche hansii A. Kern.	Orobanchaceae	H	B	4100
679.	Utricularia aurea Lour.	Lentibulariaceae	H	A	3500
680.	Utricularia australis R. Br.	Lentibulariaceae	H	A	3400
681.	Utricularia minor L.	Lentibulariaceae	H	A	3200
682.	Dracocephalum heterophyllum Benth.	Lamiaceae	H	A	4250–6000
683.	Dracocephalum moldavica L.	Lamiaceae	H	A	3100
684.	Dracocephalum nutans L.	Lamiaceae	H	A	2770
685.	Dracocephalum stamineum Kar. & Kir.	Lamiaceae	H	A	4500
686.	Elsholtzia ciliata (Thunb.) Hyl.	Lamiaceae	H	A	2800–3400
687.	Elsholtzia densa Benth.	Lamiaceae	H	A	3500–3800
688.	Elsholtzia eriostachya (Benth.) Benth.	Lamiaceae	H	A	4100
689.	Lamium amplexicaule L.	Lamiaceae	H	A	3200–3600

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
690.	Marrubium marrubiastrum (Stephan) Hedge	Lamiaceae	H	A	4600
691.	Mentha longifolia (L.) Huds.	Lamiaceae	H	A	3600
692.	Nepeta adenophyta Hedge	Lamiaceae	H	A	–
693.	Nepeta annua Pall.	Lamiaceae	H	A	3800
694.	Nepeta batalica Reshi	Lamiaceae	H	P	–
695.	Nepeta clarkei Hook.f.	Lamiaceae	H	P	–
696.	Nepeta coerulescens Maxim.	Lamiaceae	H	A	5000
697.	Nepeta connata Royle ex Benth.	Lamiaceae	H	A	3100
698.	Nepeta discolor Royle ex Benth.	Lamiaceae	H	A	4100–4800
699.	Nepeta discolor Royle ex Benth. var. kargilica Reshi	Lamiaceae	H	A	–
700.	Nepeta drassiana Reshi	Lamiaceae	H	A	–
701.	Nepeta eriostachya Benth.	Lamiaceae	H	A	4300–5000
702.	Nepeta floccosa Benth.	Lamiaceae	H	A	3400–3650
703.	Nepeta floccosa Benth. var. densiflora Reshi	Lamiaceae	H	A	–
704.	Nepeta glutinosa Benth.	Lamiaceae	H	A	3450–3500
705.	Nepeta grata Benth.	Lamiaceae	H	A	4570
706.	Nepeta laevigata (D. Don) Hand.–Mazz.	Lamiaceae	H	A	3400–4400
707.	Nepeta lancefolia Reshi	Lamiaceae	H	A	3000
708.	Nepeta leucolaena Benth. ex Hook.f.	Lamiaceae	H	A	3100
709.	Nepeta linearis Royle ex Benth.	Lamiaceae	H	A	3200–3500
710.	Nepeta longibracteata Benth.	Lamiaceae	H	A	4000–5000
711.	Nepeta nervosa Royle ex Benth.	Lamiaceae	H	A	–
712.	Nepeta padamica Reshi	Lamiaceae	H	P	–
713.	Nepeta paucifolia Mukerjee	Lamiaceae	H	P	–
714.	Nepeta podostachys Benth.	Lamiaceae	H	A	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
715.	Nepeta podostachys Benth. var. hypoluciphylla Reshi	Lamiaceae	H	A	–
716.	Perovskia abrotanoides Kar.	Lamiaceae	S	P	3500
717.	Prunella vulgaris L.	Lamiaceae	H	P	2200
718.	Scutellaria heydei Hook.f.	Lamiaceae	H	P	–
719.	Scutellaria prostrata Jacq. ex Benth.	Lamiaceae	H	P	2900
720.	Stachys tibetica Vatke	Lamiaceae	US	P	3310–3200
721.	Thymus linearis Benth.	Lamiaceae	H	P	2270–3500
722.	Plantago depressa Willd.	Plantaginaceae	H	A	3400–4600
723.	Plantago lanceolata L.	Plantaginaceae	H	P	3730
724.	Plantago major L.	Plantaginaceae	H	P	3570–4075
725.	Amaranthus caudatus L.	Amaranthaceae	H	A	3900–4400
726.	Amaranthus lividus L.	Amaranthaceae	H	A	2700
727.	Acroglochin persicarioides (Poir.) Moq.	Chenopodiaceae	H	A	–
728.	Atriplex crassifolia C.A. Mey.	Chenopodiaceae	H	A	3700
729.	Atriplex hortensis L.	Chenopodiaceae	H	A	5500
730.	Atriplex rosea L.	Chenopodiaceae	H	A	3500–3560
731.	Axyris amaranthoides L.	Chenopodiaceae	H	A	3500–3850
732.	Bassia dasyphylla (Fisch. & C.A. Mey.) Kuntze.	Chenopodiaceae	H	A	–
733.	Chenopodium album L.	Chenopodiaceae	H	A	–
734.	Chenopodium botrys L.	Chenopodiaceae	H	A	3500–3800
735.	Chenopodium foliosum (Moench) Asch.	Chenopodiaceae	H	A	2700–4300
736.	Chenopodium glaucum L.	Chenopodiaceae	H	A	3100–4250
737.	Chenopodium hybridum L.	Chenopodiaceae	H	A	3200
738.	Chenopodium murale L.	Chenopodiaceae	H	A	3500
739.	Chenopodium opulifolium Schrad. ex W.D.J. Koch & Ziz.	Chenopodiaceae	H	A	3200–3505

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
740.	Corispermum tibeticum Iljin.	Chenopodiaceae	H	A	4175
741.	Halocharis sulphurea (Moq.) Moq.	Chenopodiaceae	H	A	3310
742.	Halocharis violacea Bunge	Chenopodiaceae	H	A	–
743.	Halogeton glomeratus (M. Bieb.) C.A. Mey.	Chenopodiaceae	H	A	3800
744.	Halogeton kashmirianus Grey–Wilson & Wadhwa	Chenopodiaceae	H	A	3506
745.	Haloxylon thomsonii Iljin	Chenopodiaceae	S	P	3400
746.	Kochia indica Wight	Chenopodiaceae	H	A	–
747.	Kochia prostrata (L.) C. Schrad.	Chenopodiaceae	US	P	4500
748.	Microgynoecium tibeticum Hook.f.	Chenopodiaceae	H	A	4300–4500
749.	Salsola collina Pall.	Chenopodiaceae	H	A	3700–4000
750.	Salsola kali L.	Chenopodiaceae	H	A	3400
751.	Suaeda fruticosa Forssk. ex J.F. Gmel.	Chenopodiaceae	US	P	–
752.	Suaeda microsperma (C.A. Mey.) Fenzl.	Chenopodiaceae	H	A	5500
753.	Fagopyrum tataricum (L.) Gaertn.	Polygonaceae	H	A	3400–3650
754.	Fallopia convolvulus (L.) Á. Löve	Polygonaceae	H	A	4100
755.	Koenigia islandica L.	Polygonaceae	H	A	–
756.	Oxyria digyna (L.) Hill	Polygonaceae	H	P	3100–3800
757.	Polygonum amplexicaule D. Don	Polygonaceae	H	P	–
758.	Polygonum aviculare L.	Polygonaceae	H	A	2800–3250
759.	Polygonum cognatum Meisn.	Polygonaceae	H	P	3200–4400
760.	Polygonum delicatulum Meisn.	Polygonaceae	H	A	3500–4200
761.	Polygonum glabrum Willd.	Polygonaceae	H	A	3000–3500
762.	Polygonum glaciale Hook.f.	Polygonaceae	H	A	–
763.	Polygonum lapathifolium L.	Polygonaceae	H	A	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
764.	Polygonum molliiforme Boiss.	Polygonaceae	H	A	4150–4700
765.	Polygonum nepalense Meisn.	Polygonaceae	H	A	2700–3300
766.	Polygonum paronychioides C.A. Mey. ex Hohen.	Polygonaceae	H	P	3480–3850
767.	Polygonum persicaria L.	Polygonaceae	H	A	–
768.	Polygonum plebeium R. Br.	Polygonaceae	H	A	3505–4000
769.	Polygonum polcnemoides Jaub. & Spach	Polygonaceae	H	A	–
770.	Polygonum rottboellioides Jaub. & Spach	Polygonaceae	H	A	3700
771.	Polygonum rottboellioides Jaub. & Spach var. tibetica (Hook.f.) R.R. Stewart	Polygonaceae	H	A	–
772.	Polygonum sibiricum Laxm.	Polygonaceae	H	P	–
773.	Polygonum tortuosum D. Don	Polygonaceae	US	P	3800–4500
774.	Rheum tibeticum Maxim. ex Hook.f.	Polygonaceae	H	A	–
775.	Rheum webbianum Royle	Polygonaceae	H	P	4000
776.	Rumex acetosa L.	Polygonaceae	H	P	3150
777.	Rumex angulatus Rech.f.	Polygonaceae	H	P	–
778.	Rumex nepalensis Spreng.	Polygonaceae	H	P	3200
779.	Rumex patientia L.	Polygonaceae	H	P	3000–3600
780.	Elaeagnus angustifolia L.	Elaeagnaceae	T	P	–
781.	Thesium himalense Royle ex Edgew.	Santalaceae	H	P	3900–4250
782.	Thesium hookeri Hendrych	Santalaceae	H	P	–
783.	Euphorbia hispida Boiss.	Euphorbiaceae	H	A	3500
784.	Euphorbia kanaorica Boiss.	Euphorbiaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
785.	Euphorbia thomsoniana Boiss.	Euphorbiaceae	H	P	2900
786.	Euphorbia tibetica Boiss.	Euphorbiaceae	H	P	3200–4000
787.	Parietaria serbica Pančić	Urticaceae	H	A	–
788.	Urtica ardens Link.	Urticaceae	H	P	–
789.	Urtica dioica L.	Urticaceae	H	P	3150–3800
790.	Urtica hyperborea Jacq. ex Wedd.	Urticaceae	H	P	4000–4600
791.	Morus alba L.	Moraceae	T	P	2700
792.	Ulmus wallichiana Planch.	Ulmaceae	T	P	–
793.	Juglans regia L.	Juglandaceae	T	P	2600
794.	Betula utilis D. Don	Betulaceae	T	P	3700
795.	Populus alba L.	Salicaceae	T	P	–
796.	Populus ciliata Wall. ex Royle	Salicaceae	T	P	3500
797.	Populus deltoides W. Bartram ex Marshall	Salicaceae	T	P	–
798.	Populus euphratica Oilvier	Salicaceae	T	P	–
799.	Salix alba L.	Salicaceae	T	P	3200
800.	Salix caesia Vill.	Salicaceae	S	P	4500
801.	Salix daphnoides Vill.	Salicaceae	S	P	–
802.	Salix denticulata Andersson	Salicaceae	S	P	3800
803.	Salix flabellaris Andersson	Salicaceae	S	P	4800
804.	Salix pycnostachya Andersson	Salicaceae	S	P	4000
805.	Salix sclerophylla Andersson	Salicaceae	S	P	–
806.	Salix sericocarpa Andersson	Salicaceae	S	P	3200
807.	Salix tetrasperma Roxb.	Salicaceae	T	P	–
808.	Salix wilhelmsiana M. Bieb.	Salicaceae	S	P	3200
809.	Dactylorhiza hatagirea (D. Don) Soo	Orchidaceae	H	P	–
810.	Malaxis muscifera (Lindl.) O. Ktz.	Orchidaceae	H	A	–
811.	Iris decora Wall.	Iridaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
812.	Iris spuria L.	Iridaceae	H	P	–
813.	Colchium luteum Baker	Liliaceae	H	A	–
814.	Eremurus himalaicus Baker	Liliaceae	H	A	–
815.	Fritillaria roylei Hook.	Liliaceae	H	P	–
816.	Gagea kunawarensis (D.Don) Greuter	Liliaceae	H	P	–
817.	Lloydia serotina (L.) Reichb.	Liliaceae	H	A	–
818.	Tulipa stellata Hook.	Liliaceae	H	A	–
819.	Allium auriculatum Kunth	Alliaceae	H	A	–
820.	Allium caesioides Wendelbo	Alliaceae	H	A	–
821.	Allium carolinianum DC.	Alliaceae	H	P	–
822.	Allium consanguineum Kunth	Alliaceae	H	P	–
823.	Allium fedtschenkoanum Regel	Alliaceae	H	A	–
824.	Allium humile Kunth	Alliaceae	H	A	–
825.	Allium jacquemontii Kunth	Alliaceae	H	A	–
826.	Allium loratum Baker	Alliaceae	H	A	–
827.	Allium oreoprasum Schrenk	Alliaceae	H	A	–
828.	Allium roylei Stern	Alliaceae	H	A	–
829.	Allium schoenoprasum L.	Alliaceae	H	A	–
830.	Allium stoliczki Regel	Alliaceae	H	A	–
831.	Allium tenuicaule Regel	Alliaceae	H	A	–
832.	Allium victorialis L.	Alliaceae	H	A	–
833.	Milula spicata Prain	Alliaceae	H	A	–
834.	Juncus articulatus L.	Juncaceae	H	A	–
835.	Juncus bafonius L.	Juncaceae	H	A	–
836.	Juncus leucomelas Royle ex D.Don	Juncaceae	H	P	–
837.	Juncus punctorius L.f.	Juncaceae	H	P	–
838.	Juncus sphacelatus Decne.	Juncaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
839.	Juncus sphacelatus Decne. var. himalensis (Klotzsch & Garcke) Jafri	Juncaceae	H	P	–
840.	Juncus thomsonii	Juncaceae	H	P	–
841.	Juncus triglumis L.	Juncaceae	H	P	–
842.	Lemna minor L.	Lemnaceae	H	A	–
843.	Najas marina L.	Najadaceae	H	A	–
844.	Triglochin maritima L.	Juncaginaceae	H	P	–
845.	Triglochin palustris L.	Juncaginaceae	H	P	–
846.	Potamogeton crispus L.	Potamogetonaceae	H	P	–
847.	Potamogeton natans L.	Potamogetonaceae	H	P	–
848.	Potamogeton nodosus L.	Potamogetonaceae	H	P	–
849.	Potamogeton pectinatus L.	Potamogetonaceae	H	P	–
850.	Zannichellia palustris L.	Zannichelliaceae	H	P	–
851.	Baeothryon pumilum (Vahl) T.Koyama	Cyperaceae	H	A	–
852.	Blysmus compressus (L.) Panz. ex Link	Cyperaceae	H	P	–
853.	Carex borii Nelmes	Cyperaceae	H	P	–
854.	Carex borii Nelmes var. lutea Stewart	Cyperaceae	H	P	–
855.	Carex cruenta Nees	Cyperaceae	H	P	–
856.	Carex curta Gooden	Cyperaceae	H	P	–
857.	Carex diluta M.Bieb.	Cyperaceae	H	P	–
858.	Carex haematostoma Nees	Cyperaceae	H	P	–
859.	Carex haematostoma Nees var. submacrogyne Kuekenth	Cyperaceae	H	P	–
860.	Carex heterostachya Bunge	Cyperaceae	H	P	–
861.	Carex infuscata Nees	Cyperaceae	H	P	–
862.	Carex karoii Freyn.	Cyperaceae	H	P	–
863.	Carex melanantha C.A. Mey	Cyperaceae	H	P	–
864.	Carex melanantha C.A. Mey var. moorcroftii (Boott) Kuekenth.	Cyperaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
865.	Carex microglochin Wall.	Cyperaceae	H	P	–
866.	Carex nigerrima Nelmes	Cyperaceae	H	P	–
867.	Carex nivalis Boott	Cyperaceae	H	P	–
868.	Carex oligocarya C.B.Clarke	Cyperaceae	H	P	–
869.	Carex orbicularis Boott	Cyperaceae	H	P	–
870.	Carex pamirensis C.B.Clarke	Cyperaceae	H	P	–
871.	Carex parva Nees	Cyperaceae	H	P	–
872.	Carex plectobasis V.Krecz.	Cyperaceae	H	P	–
873.	Carex pseudofetida Kuekenth	Cyperaceae	H	P	–
874.	Carex psychrophila Nees	Cyperaceae	H	P	–
875.	Carex serotina Merat	Cyperaceae	H	P	–
876.	Carex setosa Boott	Cyperaceae	H	P	–
877.	Carex stenophylla Wahl.	Cyperaceae	H	P	–
878.	Carex stenophylla Wahl. var. longipedicellata (Boeck.) Kuekenth.	Cyperaceae	H	P	–
879.	Carex tristis M.Bieb.	Cyperaceae	H	P	–
880.	Carex vulpinaris Nees	Cyperaceae	H	P	–
881.	Elaeocarpus atropurpurea (Retz.) J. & K. Presl	Cyperaceae	H	A	–
882.	Elaeocarpus mitracarpa Steud.	Cyperaceae	H	P	–
883.	Elaeocarpus palustris (L.) R.Br.	Cyperaceae	H	P	–
884.	Elaeocarpus quinquiflora (F.X. Hartm.) O.Schwarz	Cyperaceae	H	P	–
885.	Elaeocarpus uniglumis (Link.) Schult.	Cyperaceae	H	P	–
886.	Isolepis setacea (L.) R.Br.	Cyperaceae	H	A	–
887.	Kobresia capillifolia (Decne.) C.B. Clarke	Cyperaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
888.	Kobresia cerostachys (Franch.) C.B. Clarke	Cyperaceae	H	P	–
889.	Kobresia laxa Nees	Cyperaceae	H	P	–
890.	Kobresia macrantha Boeck.	Cyperaceae	H	P	–
891.	Kobresia nitens C.B. Clarke	Cyperaceae	H	P	–
892.	Kobresia pygmaea (C.B. Clarke) C.B. Clarke	Cyperaceae	H	P	–
893.	Kobresia royleana (Nees) Boeck.	Cyperaceae	H	P	–
894.	Kobresia laxa Nees var. paniculata (Regel) Kuekenth.	Cyperaceae	H	P	–
895.	Pycreus flavescens (L.) Reichb.	Cyperaceae	H	A	–
896.	Pycreus flavidus (Retz.) Koyama	Cyperaceae	H	A	–
897.	Pycreus sanguinolentus (Vahl) Nees ex C.B. Clarke	Cyperaceae	H	P	–
898.	Schoenoplectus lacustris (L.) Palla	Cyperaceae	H	P	–
899.	Schoenoplectus tabernaemontani (C.C. Gmel.) Palla	Cyperaceae	H	P	–
900.	Schoenoplectus triqueter (L.) Palla	Cyperaceae	H	P	–
901.	Scirpus rufus Schrad.	Cyperaceae	H	P	–
902.	Agrostis gigantean Roth.	Poaceae	H	A	–
903.	Agrostis munroana Aitch. & Hemsl.	Poaceae	H	A	–
904.	Agrostis pilosula Trin.	Poaceae	H	A	–
905.	Agrostis stolonifera L.	Poaceae	H	A	–
906.	Agrostis vinealis Schreb.	Poaceae	H	P	–
907.	Agrostis viridis Gouan	Poaceae	H	P	–
908.	Alopecurus aequalis Sobol.	Poaceae	H	P	–
909.	Alopecurus arundinaceus Poir.	Poaceae	H	P	–
910.	Alopecurus himalaicus Hook.f.	Poaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
911.	Anthoxanthum odoratum L.	Poaceae	H	P	–
912.	Aristida cyanantha Nees ex Steud.	Poaceae	H	P	–
913.	Arundo donax L.	Poaceae	H	P	–
914.	Avena barbata Pett. ex Link	Poaceae	H	A	–
915.	Avena fatua L.	Poaceae	H	A	–
916.	Avena sterilis L. subsp. ludoviciana (Dur.) Gill & Magne	Poaceae	H	A	–
917.	Bothriochloa ischaemum (L.) Keng	Poaceae	H	P	–
918.	Bothriochloa pertusa (L.) A. Camus	Poaceae	H	P	–
919.	Brachypodium sylvaticum (Huds.) P. Beauv.	Poaceae	H	P	–
920.	Briza media L.	Poaceae	H	P	–
921.	Bromus confinis Nees ex Steud.	Poaceae	H	P	–
922.	Bromus danthoniae Trin.	Poaceae	H	A	–
923.	Bromus gracillimus Bunge	Poaceae	H	A	–
924.	Bromus inermis Leyss.	Poaceae	H	P	–
925.	Bromus japonicus Thunb. ex Murr.	Poaceae	H	A	–
926.	Bromus lanceolatus Roth	Poaceae	H	A	–
927.	Bromus oxyodon Schrenk	Poaceae	H	A	–
928.	Bromus pectinatus Thumb.	Poaceae	H	A	–
929.	Bromus ramosus Huds.	Poaceae	H	P	–
930.	Bromus scoparius L.	Poaceae	H	A	–
931.	Bromus tectorum L.	Poaceae	H	A	–
932.	Calamagrostis decora Hook.f.	Poaceae	H	P	–
933.	Calamagrostis emodensis Griseb.	Poaceae	H	P	–
934.	Calamagrostis epigejos (L.) Roth	Poaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
935.	Calamagrostis garhwalensis C.E. Hubbard & Bor	Poaceae	H	P	–
936.	Calamagrostis pseudophragmites (Hall.f.) Koel.	Poaceae	H	P	–
937.	Calamagrostis pseudophragmites (Hall.f.) Koel. subsp. tartarica (Hook.f.) Bor	Poaceae	H	P	–
938.	Calamagrostis scabrescens Griseb.	Poaceae	H	P	–
939.	Calamagrostis stoliczkai Hook.f.	Poaceae	H	P	–
940.	Catabrosa aquatic (L.) P. Beauv.	Poaceae	H	P	–
941.	Chloris virgata Sw.	Poaceae	H	A	–
942.	Chrysopogon gryllus (L.) Trin.	Poaceae	H	P	–
943.	Chrysopogon gryllus (L.) Trin. subsp. echinulatus (Nees) T.A. Cope	Poaceae	H	P	–
944.	Colpodium himalaicum (Hook.f.) Bor	Poaceae	H	P	–
945.	Colpodium leucolepis Nevski	Poaceae	H	P	–
946.	Colpodium nutans (Stapf) Bor	Poaceae	H	P	–
947.	Crypsis schoenoides (L.) Lam.	Poaceae	H	A	–
948.	Cymbopogon jwarancusa (Jones) Schult.	Poaceae	H	P	–
949.	Cymbopogon jwarancusa (Jones) Schult. subsp. olivieri (Boiss.) Soenarko	Poaceae	H	P	–
950.	Cymbopogon pospischilii (K. Schum.) C.E. Hubbard	Poaceae	H	P	–
951.	Dactylis glomerata L.	Poaceae	H	P	–
952.	Danthonia cachemyriana Jaub. & Spach.	Poaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
953.	Danthonia schneideri Pilger	Poaceae	H	P	–
954.	Deschampsia caespitosa (L.) P. Beauv.	Poaceae	H	P	–
955.	Deschampsia koelerioides Regel	Poaceae	H	P	–
956.	Digitaria ischaemum (Schreb.) Schreb. ex Muhl.	Poaceae	H	A	–
957.	Digitaria sanguinalis (L.) Scop.	Poaceae	H	A	–
958.	Digitaria stewartiana Bor	Poaceae	H	A	–
959.	Duthiea bromoides Hack.	Poaceae	H	P	–
960.	Echinochloa colona (L.) Link	Poaceae	H	A	–
961.	Echinochloa crusgalli (L.) P. Beauv.	Poaceae	H	A	–
962.	Elymus cognatus (Hack.) T.A. Cope	Poaceae	H	P	–
963.	Elymus dahuricus Turcz. ex Griseb.	Poaceae	H	P	–
964.	Elymus dentatus (Hook. f.) T.A. Cope	Poaceae	H	P	–
965.	Elymus fedtschenkoi Tzvelev	Poaceae	H	P	–
966.	Elymus hispidus (Opiz) Meld.	Poaceae	H	P	–
967.	Elymus jacquemontii (Hook.f.) T.A. Cope	Poaceae	H	P	–
968.	Elymus longi-aristatus (Boiss.) Tzvelev subsp. canaliculatus (Nevski) Tzvelev	Poaceae	H	P	–
969.	Elymus nutans Griseb.	Poaceae	H	P	–
970.	Elymus repens (L.) Gould	Poaceae	H	P	–
971.	Elymus schrenkianus (Fisch. & Mey.) Tzvelev	Poaceae	H	P	–
972.	Elymus schugnanicus (Nevski) Tzvelev	Poaceae	H	P	–
973.	Elymus semicostatus (Nees ex Steud.) Meld.	Poaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
974.	Elymus stewartii (Meld.) T.A. Cope	Poaceae	H	P	–
975.	Enneapogon persicus Boiss.	Poaceae	H	P	–
976.	Eragrostis minor Host	Poaceae	H	A	–
977.	Eragrostis pilosa (L.) P. Beauv.	Poaceae	H	A	–
978.	Eremopoa altaica (Trin.) Rosch.	Poaceae	H	A	–
979.	Eremopoa altaica (Trin.) Rosch. subsp. songarica (Schrenk) Tzvelev	Poaceae	H	A	–
980.	Eremopoa persica (Trin.) Rozhev.	Poaceae	H	A	–
981.	Festuca alaica Drobov	Poaceae	H	P	–
982.	Festuca alata (St. Yves) Rozhev.	Poaceae	H	P	–
983.	Festuca coelestis (St.-Vyes) Krecz. & Bobrov	Poaceae	H	P	–
984.	Festuca hartmannii (Markgr.-Dannenb.) Alexeev	Poaceae	H	P	–
985.	Festuca kashmiriana Stapf	Poaceae	H	P	–
986.	Festuca nitidula Stapf	Poaceae	H	P	–
987.	Festuca olgae (Regel) Krivot.	Poaceae	H	P	–
988.	Festuca pamirica Tzvelev	Poaceae	H	P	–
989.	Festuca polycolea Stapf	Poaceae	H	P	–
990.	Festuca rubra L.	Poaceae	H	P	–
991.	Festuca rubra L. subsp. arctica (Hack.) Govar.	Poaceae	H	P	–
992.	Festuca tibetica (Stapf) Alexeev	Poaceae	H	P	–
993.	Festuca valesiaca Schleich. ex Gaud.	Poaceae	H	P	–
994.	Helictotrichon pratense (L.) Pilger	Poaceae	H	P	–
995.	Hierochloa laxa R.Br. ex Hook.f.	Poaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
996.	Hordeum bogdani Wilensky	Poaceae	H	P	–
997.	Hordeum brevisubulatum (Trin.) Link	Poaceae	H	P	–
998.	Hordeum brevisubulatum (Trin.) Link subsp. turkestanicum (Nevski) Tzevelve	Poaceae	H	P	–
999.	Kengia mutica (Keng) Packer	Poaceae	H	P	–
1000.	Koeleria argentea Griseb.	Poaceae	H	P	–
1001.	Koeleria macrantha (Ledeb.) Schult.	Poaceae	H	P	–
1002.	Leymus secalinus (Georgi) Tzvelev	Poaceae	H	P	–
1003.	Lolium perenne L.	Poaceae	H	P	–
1004.	Melica persica Kunth	Poaceae	H	P	–
1005.	Melica secunda Regel	Poaceae	H	P	–
1006.	Milium effusum L.	Poaceae	H	P	–
1007.	Muhlenbergia huegelii Trin.	Poaceae	H	P	–
1008.	Orinus thoroldii (Stapf ex Hemsl.) Bor	Poaceae	H	P	–
1009.	Oryzopsis aequiglumis Duthie ex Hook. f.	Poaceae	H	P	–
1010.	Oryzopsis lateralis Stapf	Poaceae	H	P	–
1011.	Oryzopsis munroi Stapf	Poaceae	H	P	–
1012.	Oryzopsis wendelboi Bor	Poaceae	H	P	–
1013.	Panicum miliaceum L.	Poaceae	H	P	–
1014.	Pennisetum flaccidum Griseb.	Poaceae	H	P	–
1015.	Pennisetum lanatum Klotzsch	Poaceae	H	P	–
1016.	Pennisetum orientale L.C. Rich	Poaceae	H	P	–
1017.	Phalaris arundinacea L.	Poaceae	H	P	–
1018.	Phleum alpinum L.	Poaceae	H	P	–
1019.	Phragmites australis (Cav.) Trin. ex Steud.	Poaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
1020.	Phragmites karka (Retz.) Trin. ex Steud.	Poaceae	H	P	–
1021.	Poa alpina L.	Poaceae	H	P	–
1022.	Poa annua L.	Poaceae	H	P	–
1023.	Poa attenuata Trin.	Poaceae	H	P	–
1024.	Poa bacteriana Rozhev.	Poaceae	H	P	–
1025.	Poa bacteriana Rozhev. subsp. glabriflora (Rozhev. ex Ovcz.) Tzvelev	Poaceae	H	P	–
1026.	Poa bulbosa L.	Poaceae	H	P	–
1027.	Poa calliopsis Litw. ex Ovcz.	Poaceae	H	P	–
1028.	Poa falconeri Hook.f.	Poaceae	H	P	–
1029.	Poa glauca Vahl subsp. litwinowiana (Ovcz.) Tzvelev	Poaceae	H	P	–
1030.	Poa infirma H.B.K.	Poaceae	H	P	–
1031.	Poa koelzii Bor	Poaceae	H	P	–
1032.	Poa ladakhensis Hartm.	Poaceae	H	P	–
1033.	Poa markgrafii Hartm.	Poaceae	H	P	–
1034.	Poa nemoralis Bor	Poaceae	H	P	–
1035.	Poa nepalensis Wall. ex Duthie	Poaceae	H	P	–
1036.	Poa pagophila Bor	Poaceae	H	P	–
1037.	Poa pratensis L.	Poaceae	H	P	–
1038.	Poa pratensis L. subsp. angustifolia (L.) Gaud.	Poaceae	H	P	–
1039.	Poa sikkimensis (Stapf) Bor	Poaceae	H	P	–
1040.	Poa stafiana Bor	Poaceae	H	P	–
1041.	Poa sterilis M.Bieb.	Poaceae	H	P	–
1042.	Poa stewartiana Bor	Poaceae	H	A	–
1043.	Poa supina Schrad.	Poaceae	H	P	–
1044.	Poa suruana Hartm.	Poaceae	H	P	–
1045.	Poa tibetica Munro ex Stapf	Poaceae	H	P	–
1046.	Poa trivialis L.	Poaceae	H	P	–
1047.	Poa versicolor Bess. subsp. araratica (Trautv.) Tzvelev	Poaceae	H	P	–
1048.	Polypogon fugax Nees ex Steud.	Poaceae	H	A	–
1049.	Polypogon monspeliensis (L.) Desf.	Poaceae	H	A	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
1050.	Puccinellia distans (Wahlb.) Parl.	Poaceae	H	P	–
1051.	Puccinellia himalaica Tzvelev	Poaceae	H	P	–
1052.	Puccinellia kashmiriana Bor	Poaceae	H	P	–
1053.	Puccinellia minuta Bor	Poaceae	H	P	–
1054.	Puccinellia stapfiana R.R. Stewart	Poaceae	H	P	–
1055.	Puccinellia tenuiflora (Griseb.) Scribn. & Merr.	Poaceae	H	P	–
1056.	Puccinellia thomsonii (Stapf) R.R. Stewart	Poaceae	H	P	–
1057.	Saccharum filifolium Nees ex Steud.	Poaceae	H	P	–
1058.	Saccharum griffithii Munro ex Boiss.	Poaceae	H	P	–
1059.	Saccharum ravennae (L.) Murr.	Poaceae	H	P	–
1060.	Saccharum spontaneum L.	Poaceae	H	P	–
1061.	Schismus arabicus Nees	Poaceae	H	A	–
1062.	Schismus barbatus (L.) Thell.	Poaceae	H	A	–
1063.	Setaria pumila (Poir.) Roem. & Schult.	Poaceae	H	A	–
1064.	Setaria viridis (L.) P.Beauv.	Poaceae	H	A	–
1065.	Stipa breviflora Griseb.	Poaceae	H	P	–
1066.	Stipa capillata L.	Poaceae	H	P	–
1067.	Stipa caucasica Schmalh.	Poaceae	H	P	–
1068.	Stipa consanguinea Trin. & Rupr.	Poaceae	H	P	–
1069.	Stipa himalaica Rozhev.	Poaceae	H	P	–
1070.	Stipa jacquemontii Jaub. & Spach.	Poaceae	H	P	–
1071.	Stipa kirghisorum P. Smim.	Poaceae	H	P	–
1072.	Stipa mongholica Turcz. ex Trin.	Poaceae	H	P	–
1073.	Stipa orientalis Trin.	Poaceae	H	P	–
1074.	Stipa purpurea Griseb.	Poaceae	H	P	–
1075.	Stipa regeliana Hack.	Poaceae	H	P	–
1076.	Stipa sibirica (L.) Lam.	Poaceae	H	P	–

(continued)

Table 26.1 (continued)

S. No.	Species	Family	Habit	Life form	Altitude
1077.	<i>Stipa splendens</i> Trin.	Poaceae	H	P	–
1078.	<i>Stipa subsessiliflora</i> (Rupr.) Rozhev.	Poaceae	H	P	–
1079.	<i>Stipagrostis plumosa</i> (L.) Munro ex T. Anders.	Poaceae	H	P	–
1080.	<i>Tetrapogon villosus</i> Desf.	Poaceae	H	P	–
1081.	<i>Trikeria hookeri</i> (Stapf) Bor	Poaceae	H	P	–
1082.	<i>Tripogon filiformis</i> Nees ex Steud.	Poaceae	H	P	–
1083.	<i>Trisetum clarkei</i> (Hook.f.) R.R. Stewart	Poaceae	H	P	–
1084.	<i>Trisetum spicatum</i> (L.) Richt.	Poaceae	H	P	–
1085.	<i>Vulpia myuros</i> (L.) C.C.	Poaceae	H	A	–

Habit: A annual, B biennial, P perennial

Life Form: H herb, C climber, S shrub, T tree, TW twiner, US under-shrub

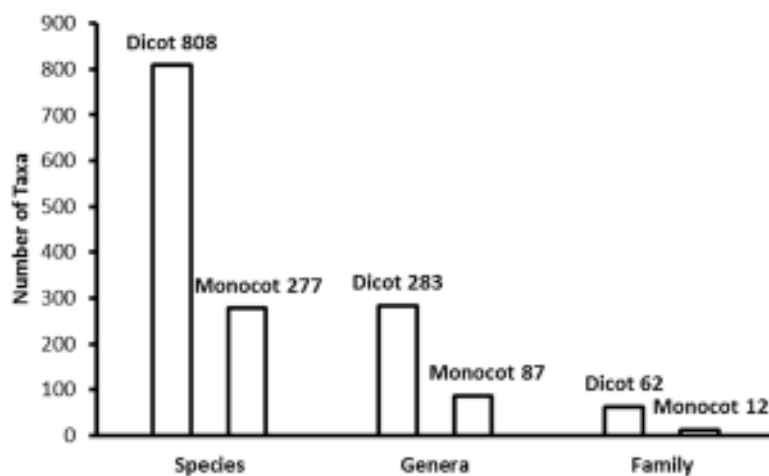


Fig. 26.2 Contribution of dicots and monocots in species, genera and families of flowering plants in the flora of Ladakh

with the highest number of species in Ladakh flora are *Astragalus* (with 35 species), followed by *Carex* (28 species), *Poa* (27 species), *Nepeta* (24 species), *Corydalis* (20 species), *Epilobium* (18 species), and *Polygonum* and *Artemisia* (17 species each) (Fig. 26.6) (Plates 26.1 and 26.2).

Fig. 26.3 Extent of species in different life-forms in the angiosperm flora of Ladakh

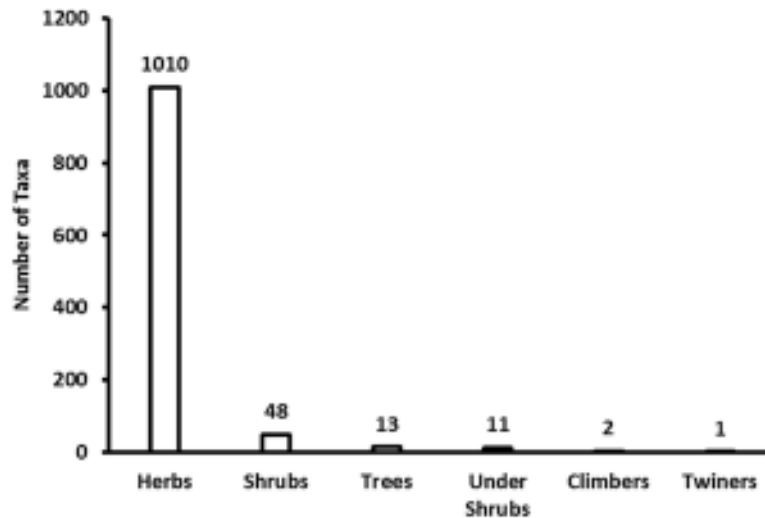
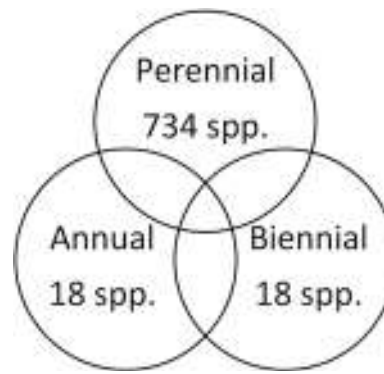


Fig. 26.4 Habit-wise contribution of different forms in the angiosperm flora of Ladakh

Ladakh flora, 62 families belong to dicotyledons and 12 to monocotyledons. Out of the total 370 genera, 283 genera belong to dicotyledons and 87 to monocotyledons. Likewise, out of the total 1085 species, 808 species are from dicotyledons while 277 belong to monocotyledons (Fig. 26.2). Perennials comprise 734 species of the angiosperm flora of Ladakh, whereas 18 species each are annuals and biennials (Fig. 26.3). In habit-wise classification, herbs dominate with 1010 species, followed by shrubs (48 species), trees (13 species), under-shrubs (11 species), climbers (2 species) and twiners (1 species) (Fig. 26.4).

The families with the highest number of species are Poaceae (with 184 species), followed by Asteraceae (122 species), Fabaceae and Brassicaceae (77 species each), Cyperaceae (51 species), Scrophulariaceae (49 species), Caryophyllaceae (43 species), Lamiaceae and Ranunculaceae (40 species each), Boraginaceae (30 species), Apiaceae (29 species) and Chenopodiaceae (26 species) (Fig. 26.5). The genera

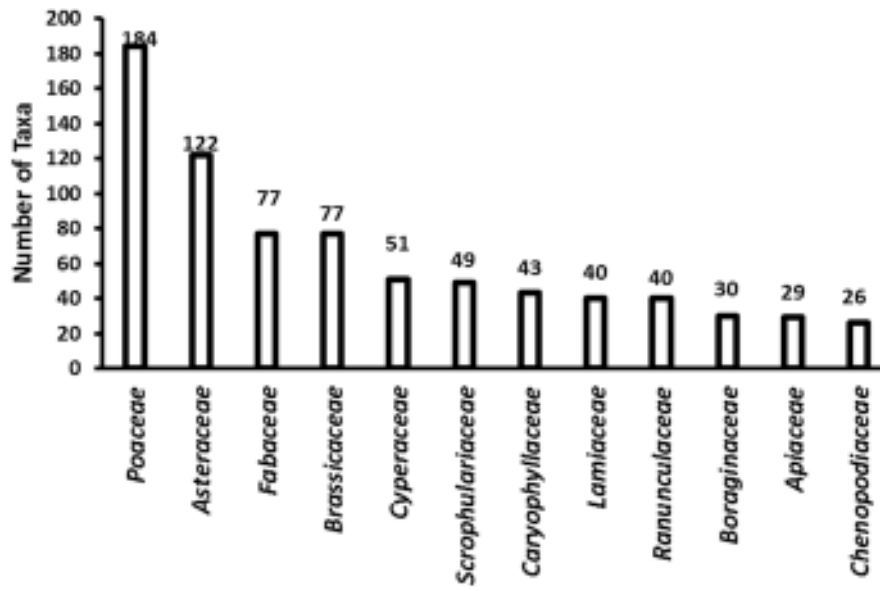


Fig. 26.5 Twelve larger families (with 26 or more species each) in angiosperm flora of Ladakh

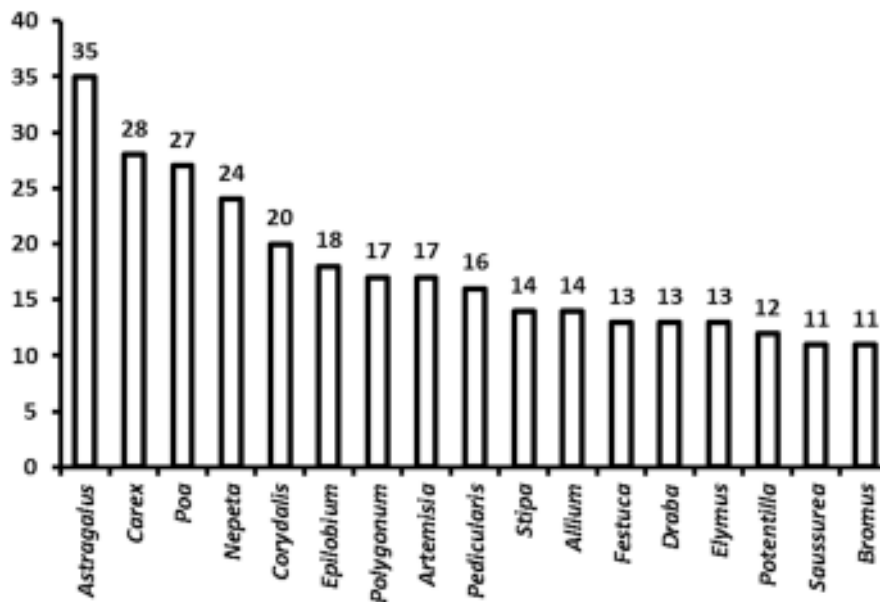


Fig. 26.6 Seventeen larger genera (with 11 or more species each) in angiosperm-flora of Ladakh



Plate 26.1 (a) – Drang Drung Glacier in the Greater Himalaya Range in southern Ladakh, (b) – Population of *Podophyllum hexandrum* in wild at Suru Valley, Kargil, (c) – Overgrazing by domestic sheep, (d) – A Landscape of Changthang region characterised by undulations with rugged terrains, (e) – Irrigated fields in Ladakh, Suru valley, (f) – A Landscape of Pang, Ladakh, (g) – A view of Tsokar Lake, Changthang region, Ladakh, (h) – Vegetation along Indus river, Leh, Ladakh, (i) – Agriculture in the Indus Valley, Changthang Range Ladakh



Plate 26.2 (a) – *Dracocephalum heterophyllum* Benth., (b) – *Lancea tibetica* Hook.f. & Thomson, (c) – *Arnebia euchroma* (Royle ex Benth.) I.M. Johnston, (d) – *Microula tibetica* Benth., (e) – *Rheum spiciforme* Royle, (f) – *Aconitum violaceum* Jacquem. ex Stapf, (g) – *Astragalus munroi* Benth. ex Bunge, (h) – *Hippophae rhamnoides* L., (i) – *Saussurea nana* (Pamp.) Pamp., (j) – *Thylacospermum caespitosum* (Cambess.) Schischk., (k) – *Thermopsis inflata* Cambess

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