

# A Contribution to the Flora of Rajouri and Poonch Districts in the Pir Panjal Himalaya (Jammu & Kashmir), India

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**ABSTRACT:** The current paper provides a taxonomic inventory of the vascular plant species collected by the authors during the last two decades from the Rajouri and Poonch districts, located along the Pir Panjal range in the Indian Himalayan State of Jammu and Kashmir. The inventory records a total of 352 species, which belong to 270 genera in 83 families. Of the total taxa, the angiosperms are represented by 331 species in 253 genera and 77 families; gymnosperms by 12 species in 9 genera and 3 families; and pteridophytes by 9 species in 7 genera and 3 families. Asteraceae is the largest family, contributing 42 species; while *Artemisia* is the largest genus, with 5 species. The inventory is expected to provide baseline scientific data for further studies on plant diversity in these two border districts, and can be used to facilitate the long-term conservation and sustainable use of plant resources in this Himalayan region.

## INTRODUCTION

Of the various environmental problems faced in modern times, the loss of biodiversity is the most serious one. The unprecedented rate of species extinction, mainly driven by unbridled human activities, is fraught with grave economic and ecological consequences. The global diversity of biota on the planet Earth is, however, so vast that only 1.7 % of it is scientifically known (Dar and Farooq 1997); this poses problems in assessing the taxa that are lost. Given such a perilous state of affairs, taxonomic inventory of biodiversity has gained much urgency worldwide. The situation is particularly pronounced in the developing world, which coincidentally harbors the richest but the most threatened biodiversity (Khuroo *et al.* 2008).

In the Himalaya, recognized as a global biodiversity hotspot (Mittermeier *et al.* 2005), crucial taxonomic information about many of its regions is still not available. The Indian State of Jammu and Kashmir (J & K) in the Western Himalaya is one such region which has been recognized as floristically under-explored by the Botanical Survey of India (Dar *et al.* 2012). Biogeographically, J & K State comprises three distinct provinces: the subtropical Jammu, the predominantly temperate Kashmir, and the cold-arid Ladakh. Owing to great variety of habitats all along these provinces, the State is very rich in floristic diversity. Its flora has attracted the attention of many foreign and local botanists since the last about two centuries. Many of its plants are cited in the illustrious works of Hooker (1872-97) and Stewart (1972).

In J & K State, Jammu province possesses the greatest floristic richness. Several taxonomic studies dealing with floristic diversity of this province have been carried out over the last three decades. Sharma and Kachroo (1981-82) published the Flora of Jammu and adjacent areas, providing taxonomic details in Vol. 1 and illustrations in Vol. 2. Kapur and Sarin (1990) dealt with the flora of

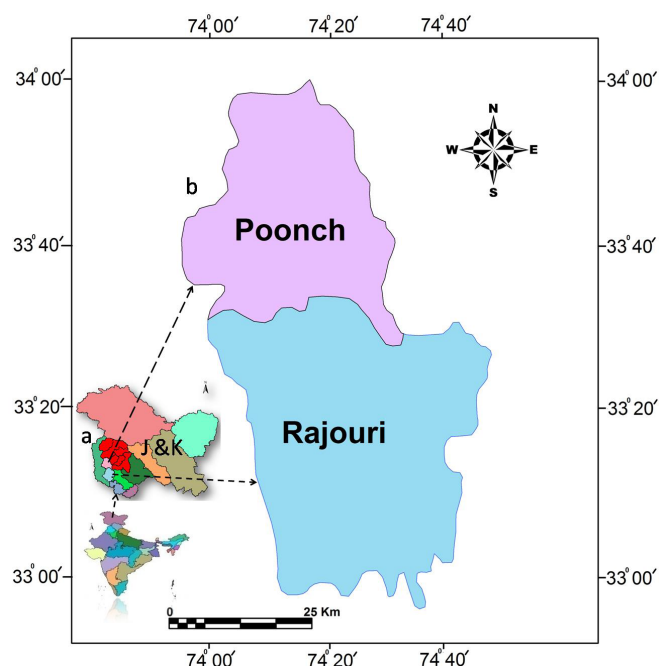
Trikuta hills, presenting a good floristic account of the plants harboring these hills and the surroundings of Shri Vaishno Devi Shrine. Swami and Gupta (1998) published the Flora of Udhampur district, which is a useful treatise on the higher plants of this region. Bhellum and Magotra (2012) catalogued the flowering plants of Doda, Kishtwar and Ramban districts, dealing with floristic richness of these three adjacent districts in the Chenab Valley.

The Rajouri and Poonch, however, are floristically the least surveyed districts in the Jammu province, with scanty and scattered information available on their flora [Singh and Kirn (1981); Kirn (1992); Singh (1992); Vir Jee *et al.* (1984); Dar *et al.* (2009); Malik *et al.* (2010)]. All these publications are preliminary short communications, none having attempted an inventory of plants occurring in these two districts. To bridge this knowledge gap, the results of the plant surveys and collections from these two districts for over two decades are consolidated in the present paper, with a view to facilitate complete floristic inventorization of the whole region.

## MATERIALS AND METHODS

### Study Area

The Rajouri and Poonch districts are located on the southerly foothills of the Pir Panjal Himalaya in the Indian State of Jammu and Kashmir. The two districts represent a transition zone between the subtropical Jammu and the temperate Kashmir provinces. Whereas the Rajouri district is located at 32°57' to 33°34' N latitudes and 74°00' to 74°48' E longitudes, the Poonch district is located between 33°28' to 34°00' N latitudes and 73°56' to 74°32' E longitudes (Figure 1). The Rajouri district comprises seven tehsils, which cover a total area of 2,630 km<sup>2</sup>, out of which forests constitute 1,267 km<sup>2</sup> (48.17 %). The Poonch district on the other hand comprises four tehsils, which cover a total area of 1,674 km<sup>2</sup> out of



**FIGURE 1.** Location map of the study area: a) Jammu and Kashmir (J & K) State, India; b) Rajouri and Poonch districts.

which forests are spread over 951 km<sup>2</sup> (56.81 %). Both these districts are strongly undulated to mountainous, with most of the population (about 96 %) living in isolated villages (Anonymous, 2012). The topography is varied with peculiar physical features; most of the cultivated land existing in upland areas, with maize being the staple food of people in the area. The climate in both these districts is broadly subtropical, although the foothill areas along the Pir Panjal range show dry temperate conditions, while subalpine and alpine conditions prevail higher up in the mountains.

The vegetation usually comprises Chir-pine (*Pinus roxburghii*) forests, broad-leaved deciduous forests, broad-leaved evergreen forests, scrub forests, interspersed with frequent grassland patches and agricultural croplands. The Pir Panjal mountain range, generally with steep slopes and gradual ascendance in altitude, exhibits a climatic gradient from temperate through subalpine to alpine in the uppermost reaches. Commensurate with these wide climatic conditions, the flora of the region depicts rich diversity.

#### *Taxonomic identification*

The present paper is the result of detailed field studies made during the floristic surveys conducted in the Rajouri-Poonch districts from 1987-1988, in 1993, and again from 2008-2010. During these surveys, plants were collected from diverse habitats in different areas of the twin districts. During collection, detailed field observations were recorded, including notes on ethnobotanical uses of various plants by the local people. The collected plant specimens were properly processed following standard

herbarium techniques, and identified at the Centre for Biodiversity and Taxonomy, University of Kashmir, using relevant Floras and other available taxonomic literature (Hooker, 1872-97; Stewart, 1972; Sharma and Kachroo, 1981-82) and online resources, such as Flora of Pakistan and Flora of China. Identifications were in some cases verified against previously identified herbarium specimens at the Kashmir University Herbarium (KASH). The exsiccatae of all the plant species included in this paper are deposited in KASH.

#### **RESULTS**

The present paper for the first time provides an inventory of 352 species of vascular plants collected by the authors from various areas in the Rajouri and Poonch districts of Jammu province in the J & K State.

#### *Taxonomic enumeration*

The sequence of plant groups in this enumeration starts with pteridophytes, followed by gymnosperms and then angiosperms. Within each of these plant groups, the families, genera and species are arranged alphabetically in tabular form. For each of the species, its current valid name and author citation is provided in the first column; while in the second column details of exsiccatae are given, including district and local area of collection, altitude of the area, date of collection, name of the collector(s) and collection number (s) [Table 1]. For some species, brief and helpful field/lab taxonomic notes are also appended.

#### **DISCUSSION**

Rajouri and Poonch, two border districts located on southerly foothills of the Pir Panjal Himalaya are botanically the least surveyed areas in the Jammu province of Jammu & Kashmir State, with very little and preliminary information available on their flora. Singh and Kirn (1981) provided a list of some alpine plants of Poonch; Kirn (1992) presented a brief account of some medicinal plants of Pir Panjal Range; Singh (1992) gave an introductory account of some wild flowering plants of Rajouri; Vir Jee *et al.* (1984) reported their concise taxo-ethnobotanical observations made in some rural areas of Rajouri; Dar *et al.* (2009) published an abstract of the inventory of higher plants of Rajouri; while Malik *et al.* (2010) listed some woody plants of Rajouri and Poonch in their paper on woody flora of Jammu & Kashmir. To augment the floristic knowledge of these areas, the present studies were undertaken.

In the present paper, the results of plant surveys and collections made from Rajouri-Poonch districts during the last two to three decades are consolidated, with a view to facilitate documentation of their overall floristic diversity. The inventory provided here records a total of 352 species of vascular plants, which belong to 270 genera in 83 families. Ethnobotanical notes are also appended with some taxa to document their traditional uses.

**TABLE 1.** Enumeration of plants collected from Rajouri and Poonch districts in Jammu & Kashmir State of India.

| PLANT TAXA                                              | DETAILS OF EXSICCATAE                                                                                                                                                                                 |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pteridophytes</b>                                    |                                                                                                                                                                                                       |
| Aspleniaceae                                            |                                                                                                                                                                                                       |
| <i>Asplenium adiantum-nigrum</i> L.                     | Poonch, Bufliaz, 2000 m, 8.1.2010, <i>Akhtar</i> 1074.                                                                                                                                                |
| Equisetaceae                                            |                                                                                                                                                                                                       |
| <i>Equisetum arvense</i> L.                             | Poonch, Bufliaz, 1900 m, 8.1.2010, <i>Akhtar</i> 990.                                                                                                                                                 |
| Pteridaceae                                             |                                                                                                                                                                                                       |
| <i>Adiantum capillus-veneris</i> L.                     | Poonch, Bufliaz, 1900 m, 8.1.2010, <i>Akhtar</i> 1274.                                                                                                                                                |
| <i>Adiantum incisum</i> Forssk.                         | Poonch, Behramgali, 2300 m, 8.1.2010, <i>Akhtar</i> 913.                                                                                                                                              |
| <i>Cyrtomium caryotideum</i> Presl.                     | Poonch, 950 m, 8.8.1986, <i>Kachroo</i> 9796.                                                                                                                                                         |
| <i>Dryopteris barbigera</i> O. Kze.                     | Poonch, Behramgali, 2300 m, 8.1.2010, <i>Akhtar</i> 912.                                                                                                                                              |
| <i>Polystichum lonchitis</i> (L.) Roth.                 | Poonch, Surankote, 1500 m, 8.1.2010, <i>Akhtar</i> 1075.                                                                                                                                              |
| <i>Pteris cretica</i> L.                                | Poonch, Behramgali, 2150 m, 8.1.2010, <i>Akhtar</i> 1201.                                                                                                                                             |
| <i>Pteris vittata</i> L.                                | Poonch, Behramgali, 2150 m, 8.1.2010, <i>Akhtar</i> 901.                                                                                                                                              |
| <b>Gymnosperms</b>                                      |                                                                                                                                                                                                       |
| Cupressaceae                                            |                                                                                                                                                                                                       |
| <i>Cryptomeria japonica</i> D. Don                      | Poonch, Govt. Degree College, 950 m, 18.1.1993, <i>Mukhtar</i> s. n.; Rajouri, Agriculture Dept. Office, 910 m, 9.1.1993, <i>G. H. Dar</i> 9954.                                                      |
| <i>Cupressus funebris</i> Endl.                         | Poonch, District Forest Office, 950 m, 4.1.1993, <i>G. H. Dar</i> 9997.                                                                                                                               |
| <i>Cupressus sempervirens</i> L.                        | Rajouri, District Forest Office, 910 m, 4.1.1993, <i>Mukhtar</i> s. n.                                                                                                                                |
| <i>Cupressus torulosa</i> D. Don                        | Rajouri, District Forest Office, 910 m, 4.1.1993, <i>G. H. Dar</i> 9994.                                                                                                                              |
| <i>Juniperus chinensis</i> Linn.                        | Rajouri, District Forest Office, 910 m, 4.1.1993, <i>G. H. Dar</i> 9997.                                                                                                                              |
| Cycadaceae                                              |                                                                                                                                                                                                       |
| <i>Cycas revoluta</i> Thunb.                            | Poonch, Govt. Degree College, 950 m, 18.1.1993, <i>Mukhtar</i> s. n.                                                                                                                                  |
| Pinaceae                                                |                                                                                                                                                                                                       |
| <i>Abies pindrow</i> Royle                              | Poonch, Lohren, 2220 m, 5.1.2010, <i>Akhtar</i> 1161.                                                                                                                                                 |
| <i>Cedrus deodara</i> (Roxb.) G. Don                    | Poonch, Bufliaz forest, 2000 m, 5.1.2010, <i>Akhtar</i> 1267.                                                                                                                                         |
| <i>Picea smithiana</i> (Wall.) Boiss.                   | Poonch, Bufliaz forest, 2100 m, 5.1.2010, <i>Akhtar</i> 1667.                                                                                                                                         |
| <i>Pinus roxburghii</i> Sargent                         | Poonch, Mendhar, 950 m, 10.1.2010, <i>Akhtar</i> 1208.                                                                                                                                                |
| <i>Pinus wallichiana</i> A.B. Jackson                   | Poonch, Lohren, 2250 m, 8.1.2010, <i>Akhtar</i> 1237.                                                                                                                                                 |
| Taxaceae                                                |                                                                                                                                                                                                       |
| <i>Taxus wallichiana</i> Zucc.                          | Poonch, Bufliaz forest, 2150 m, 8.8.1987, <i>G. H. Dar</i> 9796.                                                                                                                                      |
| <b>Angiosperms: Dicotyledons</b>                        |                                                                                                                                                                                                       |
| Acanthaceae                                             |                                                                                                                                                                                                       |
| <i>Aechmanthera tomentosa</i> Nees.                     | Rajouri, Dudag, 1000 m, 20.1.2010, <i>Akhtar</i> 1058.                                                                                                                                                |
| <i>Hemigraphis latebrosa</i> Nees                       | Rajouri, Darhal, 1650 m, 7.1.2010, <i>Akhtar</i> 1042.                                                                                                                                                |
| <i>Justicia adhatoda</i> L.                             | Rajouri, Sunderbani, 600 m, 6.1.2010, <i>Akhtar</i> 1103.                                                                                                                                             |
| <i>Justicia simplex</i> D. Don                          | Rajouri, Ujhan, 1000 m, 27.9.1988, <i>G. H. Dar</i> 9783.                                                                                                                                             |
| <i>Lepidagathis incurva</i> Buch.-Ham. ex D. Don        | Rajouri, Chingus (Nowshera), 860 m, 6.1.2010, <i>Akhtar</i> 1109; Rajouri, Chowdhary Nar, 1100 m, 2.3.1988, <i>G. H. Dar</i> 9613.                                                                    |
| Amaranthaceae                                           |                                                                                                                                                                                                       |
| <i>Amaranthus caudatus</i> L.                           | Rajouri, Darhal-Poonch Road, 1300 m, 8.1.2010, <i>Akhtar</i> 1623.                                                                                                                                    |
| <i>Amaranthus spinosus</i> L.                           | Rajouri, City, wastelands and roadsides, 950 m, 23.8.1987, <i>G. H. Dar</i> 9327.                                                                                                                     |
| <i>Amaranthus tricolor</i> L.                           | Rajouri, Behrote 1000 m, 22.12.1987, <i>G. H. Dar</i> 9499; Rajouri, Chowdhary Nar, 1050 m, 15.9.1987, <i>G. H. Dar</i> 9359, 9368; Rajouri, 20.11.1987, <i>G. H. Dar</i> 9467.                       |
| <i>Amaranthus viridis</i> L.                            | Rajouri, Kalakote, 750 m, 20.11.1987, <i>G. H. Dar</i> 9472; Rajouri, Palma, 950 m, 20.10.1987, <i>G. H. Dar</i> 9449.                                                                                |
| <i>Achyranthes aspera</i> L.                            | Poonch, Bufliaz, 1900 m, 12.8.1987, <i>G. H. Dar</i> 9260.                                                                                                                                            |
| <i>Achyranthes aspera</i> var. <i>argentea</i> Hook. f. | Rajouri, Shahdara Sharief, 1560 m, grassy roadsides, 16.8.1987, <i>G. H. Dar</i> 9285.                                                                                                                |
| <i>Aerua sanguinilenta</i> (L.) Blume                   | Rajouri, Kheora. 1000 m, 16.8.1987, <i>G. H. Dar</i> 9375.                                                                                                                                            |
| <i>Alternanthera sessilis</i> (L.) DC.                  | Rajouri, near Airport, 950 m, masonry bunds along roadsides, 4.8.1987, <i>G. H. Dar</i> 9240; Rajouri, 20.4.1988, <i>G. H. Dar</i> 9741.                                                              |
| <i>Celosia argentea</i> L.                              | Rajouri, Fatehpur, 960 m, 23.11.1987, <i>G. H. Dar</i> 9480.                                                                                                                                          |
| <i>Gomphrena celosioides</i> Hart.                      | Rajouri, near Darhal bridge, along roadsides, 1200 m, 6.10.1987, <i>G. H. Dar</i> 9420.                                                                                                               |
| Apiaceae                                                |                                                                                                                                                                                                       |
| <i>Bupleurum linearifolium</i> DC.                      | Noorichumb, 2200 m, 12.8.1987, <i>G. H. Dar</i> 9274.                                                                                                                                                 |
| <i>Coriandrum sativum</i> L.                            | Rajouri, Thanna Mandi, 1450 m, cultivated, 29.2.1988, <i>G. H. Dar</i> 9611; Rajouri, Fatehpur, 1100 m, 22.11.1987, <i>G. H. Dar</i> 9477; Rajouri, Behrote, 1100 m, 3.1.1988, <i>G. H. Dar</i> 9505. |
| <i>Daucus carota</i> L.                                 | Poonch, Lohren, 2100 m, 10.1.2010, <i>Akhtar</i> 1408.                                                                                                                                                |
| <i>Foeniculum vulgare</i> Miller                        | Rajouri, 950 m, 20.2.1988, <i>G. H. Dar</i> 9582.                                                                                                                                                     |
| <i>Pimpinella stewartii</i> (Dunn) E. Nasir             | Rajouri, 950 m, single plant in flower bed, flowers white, 31.8.1988, <i>G. H. Dar</i> 9761.                                                                                                          |

TABLE 1. CONTINUED.

| PLANT TAXA                                        | DETAILS OF EXSICCATAE                                                                                                                                                                                                                       |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Scandix pecten-veneris</i> L.                  | Rajouri, 950 m, 5.3.1988, <i>G. H. Dar</i> 9657; Rajouri, Jawhar Nagar, 970 m, 15.2.1988, <i>G. H. Dar</i> 9560; Poonch, Lohren, 2100 m, 10.1.2010, <i>Akhtar</i> 1408.                                                                     |
| <b>Araliaceae</b>                                 |                                                                                                                                                                                                                                             |
| <i>Hedera nepalensis</i> Koch.                    | Poonch, Bufliaz forest, 2200 m, 10.1.2010, <i>Akhtar</i> 1246; Rajouri, Palma, 1900 m, <i>G. H. Dar</i> 9299.                                                                                                                               |
| <b>Asclepiadaceae</b>                             |                                                                                                                                                                                                                                             |
| <i>Pergularia extensa</i> N.E. Brown              | Rajouri, roadsides, 950 m, 6.1.2010, <i>Akhtar</i> 1105 a.                                                                                                                                                                                  |
| <i>Vincetoxicum hirundinaria</i> Medicus          | Rajouri, Nowshera road, 800 m, 6.1.2010, <i>Akhtar</i> 1105 b.                                                                                                                                                                              |
| <b>Asteraceae</b>                                 |                                                                                                                                                                                                                                             |
| <i>Achillea millefolium</i> L.                    | Rajouri, Shahdara Sharief, 1550 m, grassy slopes along road, 16.8.1987, <i>G. H. Dar</i> 9286; Poonch, Bufliaz, 2100 m, 8.1.2010, <i>Akhtar</i> 1238.                                                                                       |
| <i>Anaphalis cinnamomea</i> C. B. Clarke          | Rajouri, Ujhan, 1100 m, 27.9.1988, <i>G. H. Dar</i> 9772; Rajouri, Kheora, 1100 m, 20.10.1987, <i>G. H. Dar</i> 9447.                                                                                                                       |
| <i>Anaphalis contorta</i> Hook. f.                | Rajouri, Ujhan, 1100 m, 20.11.1987, <i>G. H. Dar</i> 9476.                                                                                                                                                                                  |
| <i>Arctium lappa</i> L.                           | Poonch, Bufliaz, 1800 m, 9.1.2010, <i>Akhtar</i> 940.                                                                                                                                                                                       |
| <i>Artemisia absinthium</i> L.                    | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1240.                                                                                                                                                                                       |
| <i>Artemisia vulgaris</i> L.                      | Rajouri: Dangri, and Poonch: Lohren, 2100 m, 5.1.2010, <i>Akhtar</i> 1081.                                                                                                                                                                  |
| <i>Artemisia nilagirica</i> (Clarke) Pamp.        | Rajouri, Kheora, 1000 m, 15.9.1987, <i>G. H. Dar</i> 9375.                                                                                                                                                                                  |
| <i>Artemisia parviflora</i> Roxb.                 | Rajouri, Palma, 1000 m, 15.10.1987, <i>G. H. Dar</i> 9431; Rajouri, Ujhan, 27.9.1988, <i>G. H. Dar</i> 9777.                                                                                                                                |
| <i>Artemisia tournefortiana</i> Reichb.           | Rajouri, Rathal, 1210 m, 21.1.2010, <i>Akhtar</i> 1065.                                                                                                                                                                                     |
| <i>Aster albescens</i> Hand.-Mazz.                | Poonch, 950 m, 16.8.1987, <i>G. H. Dar</i> 9865.                                                                                                                                                                                            |
| <i>Bidens chinensis</i> (L.) Willd.               | Rajouri, Kheora, 1000 m, rays white, disk yellow, 19.10.1988, <i>G. H. Dar</i> 9796.                                                                                                                                                        |
| <i>Bidens tripartita</i> L.                       | Rajouri, Shahdara-Sharief, 1550 m, 20.1.2010, <i>Akhtar</i> 1062; Rajouri, Kheora, 1000 m, 15.3.1988, <i>G. H. Dar</i> 9665.                                                                                                                |
| <i>Calendula officinalis</i> L.                   | Poonch, 950 m, 8.1.2010, <i>Akhtar</i> 959, cultivated.                                                                                                                                                                                     |
| <i>Carduus edelbergii</i> Rech. f.                | Poonch, Lohren, 2200 m, 5.1.2010, <i>Akhtar</i> 955.                                                                                                                                                                                        |
| <i>Centaurea iberica</i> Trev.ex Spreng.          | Poonch, Lohren, 2200 m, 5.1.2010, <i>Akhtar</i> 950.                                                                                                                                                                                        |
| <i>Cichorium intybus</i> L.                       | Rajouri, Kheora, 1000 m, 20.8.1988, <i>G. H. Dar</i> 9745.                                                                                                                                                                                  |
| <i>Cirsium arvense</i> (L.) Scop.                 | Poonch, Lohren, 2150 m, 5.1.2010, <i>Akhtar</i> 1555.                                                                                                                                                                                       |
| <i>Cirsium falconeri</i> (Hook. f.) Petrak        | Poonch, Bufliaz forest, 2200 m, 5.1.2010, <i>Akhtar</i> 1555.                                                                                                                                                                               |
| <i>Cirsium wallichii</i> DC.                      | Rajouri: Budhal, and Poonch: Lohren, 2150 m, 5.1.2010, <i>Akhtar</i> 1155.                                                                                                                                                                  |
| <i>Conyza bonariensis</i> (L.) Cronquist          | Rajouri, Darhal, 1550 m, 22.9.1987, <i>G. H. Dar</i> 4515; Poonch, Mendhar, 1000 m, 6.2.1988, <i>G. H. Dar</i> 9528.                                                                                                                        |
| <i>Conyza canadensis</i> (L.) Cronquist           | Rajouri, Ujhan, 1100 m, 20.8.1988, <i>G. H. Dar</i> 9776; Rajouri, Shahdara Sharief, 1550 m, gravel slopes along road 16.8.1987, <i>G. H. Dar</i> 9287.                                                                                     |
| <i>Cotula anthemoides</i> L.                      | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1643 a.                                                                                                                                                                                     |
| <i>Crepis sancta</i> Babc.                        | Poonch, Lohren road, 1800 m, 9.1.2010, <i>Akhtar</i> 1643 b.                                                                                                                                                                                |
| <i>Echinops cornigerus</i> DC.                    | Poonch, Bufliaz, 2200 m, 20.10.2005, <i>Z. S. Khan</i> 1234.                                                                                                                                                                                |
| <i>Galinsoga parviflora</i> Cav.                  | Rajouri, Shahdara Sharief, 1500 m, 12.7.1988, <i>G. H. Dar</i> 9569; Rajouri, Behrote, 1200 m, 10.1.1988, <i>G. H. Dar</i> 9506; Poonch, Lohren forest, 2100 m, 9.1.2010, <i>Akhtar</i> 1243.                                               |
| <i>Gnaphalium luteo-album</i> L.                  | Rajouri, Jawhar Nagar, 950 m, 5.3.1988, <i>G. H. Dar</i> 9637; Rajouri, Darhal, 1600 m, 5.3.1988, <i>G. H. Dar</i> 9626 and 25.4.1988, <i>G. H. Dar</i> 9748; Moradpur, Nowshera, 830 m, 10.4.1988, <i>G. H. Dar</i> 9705.                  |
| <i>Helianthus annuus</i> L.                       | Rajouri, Rathal, 1200 m, 21.1.2010, <i>Akhtar</i> 1565, cultivated.                                                                                                                                                                         |
| <i>Inula cappa</i> (Ham.) DC.                     | Rajouri, Palma, 1000 m, 20.10.1987, <i>G. H. Dar</i> 9452; Rajouri, Ujhan, 1100 m, 15.10.1987, <i>G. H. Dar</i> 9433; Rajouri, Kheora, 1000 m, shrubby plant growing along stony slopes, flowers yellow, 19.10.1988, <i>G. H. Dar</i> 9795. |
| <i>Ixeris polycephala</i> Cass.                   | Poonch, Mendhar, 950 m, heads yellow, 6.2.1988, <i>G. H. Dar</i> 9520.                                                                                                                                                                      |
| <i>Lactuca dissecta</i> D. Don                    | Poonch-Bufliaz road, 1800 m, 8.1.2010, <i>Akhtar</i> 957.                                                                                                                                                                                   |
| <i>Lactuca serriola</i> L.                        | Rajouri, Kalakote, 780 m, 5.1.2010, <i>Akhtar</i> 1079.                                                                                                                                                                                     |
| <i>Launaea procumbens</i> (Roxb.) Ram. & Raj.     | Rajouri, Chowdhary Nar, 1100 m, 24.11.1987, <i>G. H. Dar</i> 9482.                                                                                                                                                                          |
| <i>Myriactis nepalensis</i> Less                  | Rajouri, Darhal, 1550 m, 25.4.1988, <i>G. H. Dar</i> 9749.                                                                                                                                                                                  |
| <i>Parthenium hysterophorus</i> L.                | Rajouri, Nowshera-Poonch roadsides, 900 m, 6.1.2010, <i>Akhtar</i> 1100.                                                                                                                                                                    |
| <i>Saussurea heteromalla</i> (D. Don) Hand.-Mazz. | Rajouri, Chingus, 860 m, 6.1.2010, <i>Akhtar</i> 1081.                                                                                                                                                                                      |
| <i>Sonchus arvensis</i> L.                        | Poonch, Mendhar, 950 m, sides of water courses, heads yellow, 6.2.1988, <i>G. H. Dar</i> 9521.                                                                                                                                              |
| <i>Siegesbeckia orientalis</i> L.                 | Rajouri, Behrote, 1000 m, 27.12.1987, <i>G. H. Dar</i> 9502.                                                                                                                                                                                |
| <i>Tagetes minuta</i> L.                          | Poonch, Pheeri Jhalas, Mendhar, 1150 m, 5.1.2010, <i>Akhtar</i> 1162.                                                                                                                                                                       |
| <i>Taraxacum officinale</i> Weber                 | Rajouri, Kheora, 1000 m, 5.3.1988, <i>G. H. Dar</i> 9620; Poonch, Bufliaz, 2100 m, 8.1.2010, <i>Akhtar</i> 1257.                                                                                                                            |
| <i>Tussilago farfara</i> L.                       | Poonch, Lohren forest, 2250 m, 9.1.2010, <i>Akhtar</i> 1245.                                                                                                                                                                                |
| <i>Vernonia cinerea</i> (L.) Lees.                | Rajouri, 950 m, 20. 03.1988, <i>G. H. Dar</i> 9684.                                                                                                                                                                                         |
| <i>Xanthium strumarium</i> L.                     | Rajouri, Revenue Colony, 950 m, 1.12.1987, <i>G. H. Dar</i> 9487.                                                                                                                                                                           |



TABLE 1. CONTINUED.

| PLANT TAXA                                                                      | DETAILS OF EXSICCATAE                                                                                                                                                                     |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Balsaminaceae</b>                                                            |                                                                                                                                                                                           |
| <i>Impatiens balsamina</i> L.                                                   | Rajouri, Darhal, Bodharoo, 1550 m, 20.9.1987, <i>G. H. Dar</i> 9400; Rajouri, Chowdhary Nar, 15.9.1987, <i>G. H. Dar</i> 9316; Poonch, Lohren, 2200 m, 9.1.2010, <i>Akhtar</i> 1258.      |
| <b>Berberidaceae</b>                                                            |                                                                                                                                                                                           |
| <i>Berberis glaucocarpa</i> Stapf.                                              | Rajouri, Muradpur, Nowshera, 830 m, 15.3.1988, <i>G. H. Dar</i> 9670.                                                                                                                     |
| <i>Berberis lycium</i> Royle                                                    | Rajouri, Darhal, 1550 m, 20.3.1988, <i>G. H. Dar</i> 9682; Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1152.                                                                          |
| <b>Boraginaceae</b>                                                             |                                                                                                                                                                                           |
| <i>Anchusa arvensis</i> (L.) Bieb. ssp. <i>orientalis</i> (L.) Nordh            | Rajouri, roadsides, 950 m, 5.3.1988, <i>G. H. Dar</i> 9648.                                                                                                                               |
| <i>Cynoglossum glochidiatum</i> Wall. ex Benth.                                 | Poonch, Bufliaz, 2000 m, 12.8.1987, <i>G. H. Dar</i> 9258.                                                                                                                                |
| <i>Trichodesma indicum</i> (L.) R. Br. var. <i>amplexicaule</i> (Roth) T. Cooke | Rajouri, Kheora, 1000 m, exposed slopes; flowers light blue, 15.9.1987, <i>G. H. Dar</i> 9371.                                                                                            |
| <b>Brassicaceae</b>                                                             |                                                                                                                                                                                           |
| <i>Arabidopsis thaliana</i> (L.) Heynh.                                         | Poonch, Mendhar, 900 m, flowers white, 6.2.1988, <i>G. H. Dar</i> 9538.                                                                                                                   |
| <i>Brassica juncea</i> (L.) Czern. & Coss.                                      | Poonch, Mendhar, 900 m, cultivated, flowers yellow, 6.2.1988, <i>G. H. Dar</i> 9525                                                                                                       |
| <i>Brassica rapa</i> L ssp. <i>campestris</i> (L.) Clapham.                     | Rajouri, Fatehpur, 1000 m, 21.11.1987, <i>G. H. Dar</i> 9475.                                                                                                                             |
| <i>Capsella bursa-pastoris</i> (L.) Medik.                                      | Poonch, Mendhar, 900 m, 6.2.1988, <i>G. H. Dar</i> 9542; Rajouri, Jawhar Nagar, 1000 m, 15.7.1988, <i>G. H. Dar</i> 9550.                                                                 |
| <i>Cardamine impatiens</i> L.                                                   | Rajouri, Thanna Mandi, 1400 m, 15.4.1988, <i>G. H. Dar</i> 9727.                                                                                                                          |
| <i>Coronopus didymus</i> (L.) Sm.                                               | Rajouri, City, Ward 10, 950 m, Masonry bunds along vegetable fields, 25.8.1987, <i>G. H. Dar</i> 9338.                                                                                    |
| <i>Eruca sativa</i> Mill.                                                       | Poonch, Mendhar, 900 m, in cultivated mustard fields, flowers yellowish, 6.2.1988, <i>G. H. Dar</i> 9526; Rajouri, Darhal, 1550 m, 26.2.1988, <i>G. H. Dar</i> 9599.                      |
| <i>Lepidium capitatum</i> Hook. f. & Thomson                                    | Rajouri, Shahdara Sharief, 1550 m, 17.2.1988, <i>G. H. Dar</i> 9572; Rajouri, Behrote, 1100 m, 1.1.1988, <i>G. H. Dar</i> 9503.                                                           |
| <i>Lepidium sativum</i> L.                                                      | Rajouri, Darhal, 1550, 23.2.1988, <i>G. H. Dar</i> 9587.                                                                                                                                  |
| <i>Lepidium virginicum</i> L.                                                   | Rajouri City, near Army Theater, roadsides slopes, 950 m, 22.8.1987, <i>G. H. Dar</i> 9313                                                                                                |
| <i>Nasturtium officinale</i> R. Br.                                             | Rajouri, Darhal, 1550 m, 15.4.1988, <i>G. H. Dar</i> 9730.                                                                                                                                |
| <b>Buxaceae</b>                                                                 |                                                                                                                                                                                           |
| <i>Buxus wallichiana</i> Baill.                                                 | Rajouri, Gabar Forest, Budhal; Poonch, Bufliaz, 2000 m, 8.1.2010, <i>Akhtar</i> 1198.                                                                                                     |
| <b>Basellaceae</b>                                                              |                                                                                                                                                                                           |
| <i>Basella rubra</i> L.                                                         | Rajouri, Gabar Forest, Budhal, 2000 m, 6.1.2010, <i>Akhtar</i> 992.                                                                                                                       |
| <b>Caesalpiniaceae</b>                                                          |                                                                                                                                                                                           |
| <i>Bauhinia variegata</i> L.                                                    | Rajouri, main road, 950 m, 5. 1.2010, <i>Akhtar</i> 1219.                                                                                                                                 |
| <i>Cassia occidentalis</i> L.                                                   | Rajouri, 950 m, flowers pure yellow, 2.9.1987, <i>G. H. Dar</i> 9385 a.                                                                                                                   |
| <i>Cassia tora</i> L.                                                           | Rajouri, 950 m, 20.9.1987, flowers pure yellow, <i>G. H. Dar</i> 9385 b.                                                                                                                  |
| <b>Campanulaceae</b>                                                            |                                                                                                                                                                                           |
| <i>Campanula pallida</i> Wallich                                                | Rajouri, Jawhar Nagar, 950 m, 15.4.1988, <i>G. H. Dar</i> 9731.                                                                                                                           |
| <b>Cannabaceae</b>                                                              |                                                                                                                                                                                           |
| <i>Cannabis sativa</i> L.                                                       | Rajouri, 950 m, near bus stand, abundant on wastelands, roadsides and along vegetable fields, 22.8.1987, <i>G. H. Dar</i> 9318; Poonch, Lohren road 1900 m, 9.1.2010, <i>Akhtar</i> 1290. |
| <b>Capparaceae</b>                                                              |                                                                                                                                                                                           |
| <i>Cleome viscosa</i> L.                                                        | Poonch, 950 m, sandy slopes, flowers yellow, 18.10.1988, <i>G. H. Dar</i> 9793.                                                                                                           |
| <b>Caprifoliaceae</b>                                                           |                                                                                                                                                                                           |
| <i>Viburnum grandiflorum</i> Wall. ex DC.                                       | Rajouri, 950 m, 5.8.1987, <i>G. H. Dar</i> 9243; Poonch, Lohren, 1900 m, 09. 01. 2010, <i>Akhtar</i> 1218.                                                                                |
| <b>Caryophyllaceae</b>                                                          |                                                                                                                                                                                           |
| <i>Cerastium cerastoides</i> (L.) Britton                                       | Poonch, Surankote nullah, 1500 m, 7.1.2010, <i>Akhtar</i> 1256.                                                                                                                           |
| <i>Dianthus crinitus</i> Smith                                                  | Rajouri, 950 m, 30.4.1988, <i>G. H. Dar</i> 9652.                                                                                                                                         |
| <i>Stellaria media</i> (L.) Vill.                                               | Rajouri, Budhal, 2000 m, 20.2.1988, <i>G. H. Dar</i> 9583; Poonch, Lohren, 2000 m, 9.1.2010, <i>Akhtar</i> 1412                                                                           |
| <i>Silene conoidea</i> L.                                                       | Rajouri, Sora, Behrote, 1000 m, 20.12.1987, <i>G. H. Dar</i> 9494                                                                                                                         |
| <i>Silene vulgaris</i> (Moench) Garcke                                          | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 918.                                                                                                                                      |
| <i>Vaccaria pyramidata</i> Medik                                                | Rajouri, 950 m, 30.4.1988, <i>G. H. Dar</i> 9752.                                                                                                                                         |
| <b>Chenopodiaceae</b>                                                           |                                                                                                                                                                                           |
| <i>Chenopodium album</i> L.                                                     | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1503.                                                                                                                                     |
| <i>Chenopodium botrys</i> L.                                                    | Poonch, Lohren, 2100 m, 9.1 2010, <i>Akhtar</i> 1261.                                                                                                                                     |
| <i>Chenopodium foliosum</i> (Moench) Aschers.                                   | Poonch, Lohren, 2100 m, 09. 01. 2010, <i>Akhtar</i> 961.                                                                                                                                  |
| <i>Chenopodium hybridum</i> L.                                                  | Poonch, Bufliaz, 2000 m, 9.1 2010, <i>Akhtar</i> 965.                                                                                                                                     |
| <i>Chenopodium murale</i> L.                                                    | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 962.                                                                                                                                      |
| <i>Kochia scoparia</i> (L.) Schrad.                                             | Rajouri, 950 m, 20.9.1987, <i>G. H. Dar</i> 9395.                                                                                                                                         |
| <b>Convolvulaceae</b>                                                           |                                                                                                                                                                                           |
| <i>Convolvulus arvensis</i> L.                                                  | Poonch, Bufliaz forest, 2000 m, 8.1.2010, <i>Akhtar</i> 1507.                                                                                                                             |

TABLE 1. CONTINUED.

| PLANT TAXA                                                         | DETAILS OF EXSICCATAE                                                                                                                             |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Ipomoea crassicaulis</i> (Benth.) B. L. Robinson                | Rajouri, 950 m, gregarious milky shrub, 15.9.1987, <i>G. H. Dar</i> 9372.                                                                         |
| <i>Ipomoea hispida</i> (Vahl) Roem. & Schult.                      | Rajouri, Khoblan, 1000 m, 26.12.1987, <i>G. H. Dar</i> 9501                                                                                       |
| <i>Ipomoea nil</i> (L.) Roth                                       | Rajouri, 950 m, 22. 08. 1987, <i>G. H. Dar</i> 9324; 20.10.1987, <i>G. H. Dar</i> 9455.                                                           |
| <i>Ipomoea purpurea</i> Roth                                       | Poonch, Bufliaz forest, 2000 m, 8.1.2010, <i>Akhtar</i> 907, 1401.                                                                                |
| Cucurbitaceae                                                      |                                                                                                                                                   |
| <i>Diplocyclos palmatus</i> (L.) C. Jaffery                        | Rajouri, Sunderbani, 600 m, climbing along hedges, 2.9.1987, <i>G. H. Dar</i> 9347.                                                               |
| Ehretiaceae                                                        |                                                                                                                                                   |
| <i>Ehretia aspera</i> Roxb.                                        | Nowshera, Moradpur, 820 m, 10.4.1988, <i>G. H. Dar</i> 9704.                                                                                      |
| Ericaceae                                                          |                                                                                                                                                   |
| <i>Rhododendron arboreum</i> Sm.                                   | Poonch, Kanglie, Surankote, 1280 m, 9.1.2010, <i>Akhtar</i> 1122.                                                                                 |
| Euphorbiaceae                                                      |                                                                                                                                                   |
| <i>Euphorbia helioscopia</i> L.                                    | Rajouri, Shahdara Sharief, 1550 m, waste ground 17.8.1988, <i>G. H. Dar</i> 9566.                                                                 |
| <i>Euphorbia hispida</i> Boiss.                                    | Poonch, Surankote, 1300 m, 10.1.2010, <i>Akhtar</i> 1250.                                                                                         |
| <i>Euphorbia wallichii</i> Hook. f.                                | Poonch, Lohren, 2200 m, 9.1.2010, <i>Akhtar</i> 1249.                                                                                             |
| <i>Phyllanthus emblica</i> L. ( <i>Emblia officinalis</i> Gaertn.) | Rajouri, Dak Bunglaw, 950 m, 5.1.2010, <i>Akhtar</i> 1220.                                                                                        |
| Fagaceae                                                           |                                                                                                                                                   |
| <i>Quercus baloot</i> Griffith                                     | Poonch, Bufliaz forest, 2000 m, 8.1.2010, <i>Akhtar</i> 1138.                                                                                     |
| <i>Quercus incana</i> Roxb.                                        | Poonch, Khataoyian, Mendhar, 1190 m, 10.1.2010, <i>Akhtar</i> 1133.                                                                               |
| <i>Quercus glauca</i> Thunb.                                       | Rajouri, Haryan, Budhal, 1800 m, 5.1.2010, <i>Akhtar</i> 1098.                                                                                    |
| Fumariaceae                                                        |                                                                                                                                                   |
| <i>Fumaria indica</i> (Haussk.) Pugsley                            | Rajouri, 950 m, 5.3.1988, <i>G. H. Dar</i> 9638; Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1280.                                            |
| Gentianaceae                                                       |                                                                                                                                                   |
| <i>Swertia angustifolia</i> Buch.-Ham ex D. Don                    | Rajouri, Chowdhary Nar, 1100 m, 15.9.1987, <i>G. H. Dar</i> 8361; Rajouri, Ujhan, 1100 m, 27.9.1988, <i>G. H. Dar</i> 9779.                       |
| <i>Gentiana aprica</i> Decne.                                      | Rajouri, 950 m, 5.3.1988, <i>G. H. Dar</i> 9629.                                                                                                  |
| <i>Gentiana carinata</i> Griseb.                                   | Poonch, Bufliaz, Mughal road, 2250 m, 9.1.2010, <i>Akhtar</i> 980.                                                                                |
| <i>Gentiana argentea</i> (Royle ex D. Don) DC.                     | Poonch, Surankote, 1300 m, grassy slopes, 15.4 1988, <i>G. H. Dar</i> 9733.                                                                       |
| Geraniaceae                                                        |                                                                                                                                                   |
| <i>Geranium rotundifolium</i> L.                                   | Rajouri, Kheora, 1000 m, 5.3.1988, <i>G. H. Dar</i> 9619; Rajouri, Nowshera, 800 m, 20.4.1988, <i>G. H. Dar</i> 9736.                             |
| Hypericaceae                                                       |                                                                                                                                                   |
| <i>Hypericum perforatum</i> L.                                     | Rajouri, Fatehpur, 1000 m, 22.11.1987, <i>G. H. Dar</i> 9478.                                                                                     |
| Hippocastanaceae                                                   |                                                                                                                                                   |
| <i>Aesculus indica</i> (Wall. ex Cambess.) Hook. f.                | Poonch, Bufliaz, 2000 m, 10.1.2010, <i>Akhtar</i> 1234.                                                                                           |
| Hamamelidaceae                                                     |                                                                                                                                                   |
| <i>Parrotiopsis jacquemontiana</i> (Dcne.) Rehder                  | Poonch, Bufliaz forest, 2100 m, 7.1.2010, <i>Akhtar</i> 1233.                                                                                     |
| Lamiaceae                                                          |                                                                                                                                                   |
| <i>Ajuga bracteosa</i> Wall. ex Benth.                             | Rajouri, Chowdhary Nar, 1050 m, dry slopes, 15.9.1987, <i>G. H. Dar</i> 9370.                                                                     |
| <i>Ajuga parviflora</i> Benth.                                     | Rajouri, Darhal, 1550 m, borders of cultivated fields, 20.3. 1988, <i>G. H. Dar</i> 9680; Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1102.   |
| <i>Clinopodium umbrosum</i> (M. Bieb.) C. Koch                     | Rajouri, 950 m, in cultivated fields, 5.3.1988, <i>G. H. Dar</i> 9650; Kheora, Rajouri 30.3.1988, <i>G. H. Dar</i> 9697.                          |
| <i>Colebrookea oppositifolia</i> Smith                             | Rajouri, Moradpur, Nowshera, 820 m, 10.4.1988, <i>G. H. Dar</i> 9706; Mendhar, Pokrow, 1350 m, 8.1.2010, <i>Akhtar</i> 1134.                      |
| <i>Isodon rugosus</i> (Wall. ex Benth.) Codd                       | Rajouri, 950 m, sandy slopes, 20.9.1987, <i>G. H. Dar</i> 9384.                                                                                   |
| <i>Lamium amplexicaule</i> L.                                      | Rajouri, Jawhar Nagar, 950 m, along vegetable fields 5.2.1988, <i>G. H. Dar</i> 9512; Shahdara Sharief, 1550 m, 17.2.1988, <i>G. H. Dar</i> 9567. |
| <i>Lycopus europaeus</i> L.                                        | Rajouri, Ujhan, 1000 m, damp fields, 15. 9. 1987, <i>G. H. Dar</i> 9354.                                                                          |
| <i>Leucas cephalotes</i> (Roth) Spreng.                            | Rajouri, Kheora, 1000 m, scrubby slopes, 5.3.1988, <i>G. H. Dar</i> 9622.                                                                         |
| <i>Leucas mollissima</i> Wall. ex Benth.                           | Rajouri, Kheora, 1000 m, 20.5.1988, <i>G. H. Dar</i> 9754.                                                                                        |
| <i>Mentha longifolia</i> (L.) L.                                   | Poonch, Gabbar forest, 1800 m, 5.1.2010, <i>Akhtar</i> 1427.                                                                                      |
| <i>Mentha royleana</i> Benth.                                      | Rajouri, Chowdhary Nar, 1050 m, boarders of cultivated fields, 15.9.1987, <i>G. H. Dar</i> 9365.                                                  |
| <i>Micromeria biflora</i> (Buch.-Ham. ex D. Don) Benth.            | Poonch, Mendhar, 900 m, sandy slopes, 6.2.1988, <i>G. H. Dar</i> 9531; Rajouri, Fatehpur, 1000 m, dry slopes, 24 11.1987, <i>G. H. Dar</i> 9481.  |
| <i>Nepeta hindostana</i> (Roth) Haines                             | Rajouri, Kheora, 1000 m, 4.3.1988, <i>G. H. Dar</i> 9617.                                                                                         |
| <i>Ocimum basilicum</i> L.                                         | Rajouri, Manjakot, 1000 m, in cultivated fields, 20.3.1988, <i>G. H. Dar</i> 9689.                                                                |
| <i>Origanum vulgare</i> L.                                         | Rajouri, Shahdara Sharief, 1550 m, gravel slopes along roadsides, flowers white, 16.8.1987, <i>G. H. Dar</i> 9290.                                |
| <i>Prunella vulgaris</i> L.                                        | Rajouri, Ujhan, 1000 m, moist roadsides, 27. 09. 1988, <i>G. H. Dar</i> 9785; Poonch, Gabber forest, 1800 m, 5.1.2010, <i>Akhtar</i> 927.         |

TABLE 1. CONTINUED.

| PLANT TAXA                                              | DETAILS OF EXSICCATAE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Stachys emodi</i> Hedge                              | Rajouri, Ujhan, 1000 m, moist roadsides, 27.9.1988, <i>G. H. Dar</i> 9783.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <i>Thymus linearis</i> Benth.                           | Poonch, Lohren forest, 2200 m, 9.1.2010, <i>Akhtar</i> 1501.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Juglandaceae                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>Juglans regia</i> L.                                 | Poonch, Gabbar forest, 1800 m, 5.1.2010, <i>Akhtar</i> 1201.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Buddlejaceae                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>Buddleja asiatica</i> Lour.                          | Rajouri, Ujhan, 1050 m, 3.3.1988, <i>G. H. Dar</i> 9614; Poonch proper, 950 m, 8.1.2010, <i>Akhtar</i> 1278.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <i>Buddleja crispa</i> Benth.                           | Poonch Road, 950 m, 10.1.2010, <i>Akhtar</i> 1210.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Lythraceae                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>Woodfordia fruticosa</i> (L.) S. Kurz                | Poonch, Noorichumb, 2200 m, 12.8.1987, <i>G. H. Dar</i> 9267.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Malvaceae                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>Abutilon bidendatum</i> Hochst. ex A. Rich.          | Rajouri, Ujhan, 1000 m, 27.9.1988, <i>G. H. Dar</i> 9782 (seeds 3 per mericarp).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <i>Hibiscus schizopetalus</i> (Masters) Hook. f.        | Rajouri, City, Ward No. 10, 950 m, grown as ornamental shrub, flowers red, 22.8.1987, <i>G. H. Dar</i> 9308.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <i>Malva neglecta</i> Wallr.                            | Poonch, Lohren, 2200 m, 9.1.2010, <i>Akhtar</i> 923.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Malva parviflora</i> L.                              | Shahdara Sharief, Rajouri, 1550 m, plants not more than 30 cm high; flowers purplish-pink, 17.2.1988, <i>G. H. Dar</i> 9563; Thanna Mandi, plants to 50 cm high, flowers pinkish, 22.8.1987, <i>G. H. Dar</i> 9330.<br>The present collections represent the first authentic specimens of this species in KASH, because all its earlier reports from the Jammu and Kashmir State have been found to be based on misidentification of its allied species, <i>M. microcarpa</i> Pers. (see Naqshi <i>et al.</i> 1988: 1514). The main distinguishing character of <i>M. parviflora</i> is its mericarps having winged and distinctly hooked margins. |
| <i>Malvastrum coromandelianum</i> (L.) Garcke           | Rajouri city, near bus stand, 950 m, abundant along roadsides, lawns, cultivated fields, wastelands, etc., flowers yellow, 22.8.1987, <i>G. H. Dar</i> 9323; Rajouri, Jawharnagar, 0950 m, 15.4.1988, <i>G. H. Dar</i> 9725; Rajouri city, Kitchen garden sides, 22.8.1987, <i>G. H. Dar</i> 9326; Rajouri, Dack Banglow lawn, abundant, plants ascending to erect, flowers yellow, 31.8.1988, <i>G. H. Dar</i> 9758; Ujhan, Rajouri 15.9.1987, <i>G. H. Dar</i> 9353 and 20.9.1987, <i>G. H. Dar</i> 9408b; Rajouri, Nowshera, 820 m, 6.1.2010, <i>Akhtar</i> 1110.                                                                               |
| <i>Sida cordata</i> (Burm. f.) Borssum Waalkes          | Rajouri, 950 m, 5.3.1988, <i>G. H. Dar</i> 9628.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <i>Sida rhombifolia</i> L. ( <i>S. yunnanensis</i> Hu.) | Rajouri, Ujhan, 1000 m, roadside slopes, 27.9.1988, <i>G. H. Dar</i> 9787.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Meliaceae                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>Melia azedarach</i> L.                               | Rajouri, 950, roadsides, 20.3.1988, <i>G. H. Dar</i> 9691; Rajouri, 950 m, 6.1.2010, <i>Akhtar</i> 1299. The drupes are persistent through the winter and fall by ending February.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <i>Toona ciliata</i> Roem.                              | Rajouri, Darhal road, 1400 m, 6.1.2010, <i>Akhtar</i> 1221.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Moraceae                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>Ficus carica</i> L.                                  | Rajouri, Darhal, 1550 m and Poonch, Surankote, 1300 m, 6.1.2010, <i>Akhtar</i> 1222.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Ficus palmata</i> Frossk.                            | Rajouri, Budhal, 1800 m, 5.1.2010, <i>Akhtar</i> 1153.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <i>Morus alba</i> L.                                    | Poonch, Lohren, 2000 m, 9.1.2010, <i>Akhtar</i> 1223.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Myrtaceae                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>Callistemon citrinus</i> (Curtis) Stapf              | Budhal, Haryan, 1800 m, 5.1.2010, <i>Akhtar</i> 1140.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <i>Eucalyptus alba</i> Reinw. ex Bl.                    | Poonch, Dak Bunglow, 950 m, 8.1.2010, <i>Akhtar</i> 1123.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <i>Eucalyptus globulus</i> Labbil.                      | Rajouri, Darhal, 1550 m, and Poonch road, 950 m, 8.1.2010, <i>Akhtar</i> 1645.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <i>Eucalyptus tereticornis</i> Sm.                      | Rajouri road, 950 m, 7.10.2006, Z. S. Khan 1345.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mimosaceae                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>Albizia lebbek</i> (L.) Benth.                       | Poonch, Surankote road, 1350 m, 10.1.2010, <i>Akhtar</i> 1221.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Oleaceae                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>Olea ferruginea</i> Royle                            | Rajouri Biodiversity Park, 960 m, 10.1.2010, <i>Akhtar</i> 1224.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Onagraceae                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>Oenothera rosea</i> Soland.                          | Rajouri, Soland, 10.4.1988, <i>G. H. Dar</i> 9721; Poonch, Bufliaz forest, 2000 m, 12.1.2010, <i>Akhtar</i> 1047.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Oxalidaceae                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>Oxalis corniculata</i> L.                            | Rajouri, Kheora, 1000 m, 27.02.1988, <i>G. H. Dar</i> 9681.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Papilionaceae                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>Astragalus grahamianus</i> Royle ex Benth.           | Poonch, Bufliaz road, 2000 m, 9.1.2010, <i>Akhtar</i> 934.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <i>Lotus corniculatus</i> L.                            | Poonch, Mendhar, 900 m, 6.2.1988, <i>G. H. Dar</i> 9540.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <i>Mallotus philippensis</i> (Lam.) Muell.              | Nowshera, Rajouri, 820 m, 6.1.2010, <i>Akhtar</i> 1107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <i>Melilotus indica</i> (L.) All.                       | Poonch, Mendhar, 900 m, flowers yellow, 6.2.1988, <i>G. H. Dar</i> 9539.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <i>Trifolium fragiferum</i> L.                          | Poonch, Mendhar, 900 m, cultivated as fodder, 6.2.1988, <i>G. H. Dar</i> 9541.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <i>Trifolium pratense</i> L.                            | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1271.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <i>Trifolium repens</i> L.                              | Rajouri, Jawahar Nagar, 0950 m, 30.3.1988, <i>G. H. Dar</i> 9696; Poonch, Mendhar, 900 m, 6.2.1988, <i>G. H. Dar</i> 9529; Poonch, Lohren forest, 2100 m, 9.1.2010, <i>Akhtar</i> 1264.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <i>Lathyrus aphaca</i> L.                               | Rajouri, Darhal, 1550 m, 10.2.1988, <i>G. H. Dar</i> 9548.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

TABLE 1. CONTINUED.

| PLANT TAXA                                                                       | DETAILS OF EXSICCATAE                                                                                                                       |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Indigofera cassioides</i> Rottl. ex DC.                                       | Rajouri, Nowshera, 820 m, 30.3.1988, <i>G. H. Dar</i> 9685.                                                                                 |
| <i>Indigofera heterantha</i> Wall. ex Brandis                                    | Poonch, Dookrie, 1700 m, 11.1.2010, <i>Akhtar</i> 1227.                                                                                     |
| <i>Indigofera cordifolia</i> Heyne ex. Roth                                      | Rajouri, 950 m, 5.3.1988, <i>G. H. Dar</i> 9632.                                                                                            |
| <i>Vicia sativa</i> L.                                                           | Rajouri, Kheora, 1000 m, 26.2.1988, <i>G. H. Dar</i> 9592; Poonch, Bufliaz road, 1700 m, 7.1.2010, <i>Akhtar</i> 1459.                      |
| <i>Medicago lupulina</i> L.                                                      | Rajouri, 950 m, 15.3.1988, <i>G. H. Dar</i> 9678.                                                                                           |
| <i>Medicago polymorpha</i> L.                                                    | Rajouri, Jawhar Nagar, 0950 m, 10.3.1988, <i>G. H. Dar</i> 9658.                                                                            |
| <i>Medicago sativa</i> L.                                                        | Poonch, Bufliaz road, 1800 m, 7.1.2010, <i>Akhtar</i> 1453.                                                                                 |
| <i>Tephrosia strigosa</i> (Dalz.) Sant. & Maheshw.                               | Rajouri, Ujhan, 1000 m, 27.7.1988, <i>G. H. Dar</i> 9770.                                                                                   |
| <i>Robinia pseudoacacia</i> L.                                                   | Rajouri, Gabber forest, Budhal, 1800 m, <i>Akhtar</i> 1202.                                                                                 |
| <i>Desmodium laxiflorum</i> DC.                                                  | Rajouri, Ujhan, 1000 m, 27.9.1988, <i>G. H. Dar</i> 9788.                                                                                   |
| <i>Crotalaria medicaginea</i> Lamk.                                              | Rajouri, Ujhan, 1000 m, 27.9.1988, <i>G. H. Dar</i> 9780.                                                                                   |
| <i>Lespedeza juncea</i> (L. f.) Pers.                                            | Rajouri, Fatehpur, 1000 m, 20.11.1987, <i>G. H. Dar</i> 9470.                                                                               |
| <b>Plantaginaceae</b>                                                            |                                                                                                                                             |
| <i>Plantago lanceolata</i> L.                                                    | Rajouri, Budhal, 1800 m, 5.1.2010, <i>Akhtar</i> 1511.                                                                                      |
| <i>Plantago major</i> L.                                                         | Rajouri, Budhal, 1800 m, 5.1.2010, <i>Akhtar</i> 1512.                                                                                      |
| <b>Platanaceae</b>                                                               |                                                                                                                                             |
| <i>Platanus orientalis</i> L.                                                    | Rajouri, Darhal, 1560 m, 6.1.2010, <i>Akhtar</i> 1581.                                                                                      |
| <b>Papaveraceae</b>                                                              |                                                                                                                                             |
| <i>Argemone mexicana</i> L.                                                      | Rajouri, City, 950 m, roadside slopes, flowers purple, anthers yellow, 25.8.1987, <i>G. H. Dar</i> 9342.                                    |
| <b>Pittosporaceae</b>                                                            |                                                                                                                                             |
| <i>Pittosporum nepaulense</i> (DC.) Rehder & Wilson                              | Poonch, Mendhar, 900 m, 6.2.1988, <i>G. H. Dar</i> 9537.                                                                                    |
| <b>Plumbaginaceae</b>                                                            |                                                                                                                                             |
| <i>Plumbago zeylanica</i> L.                                                     | Rajouri, 950 m, scrubby slopes, 20.8.1987, <i>G. H. Dar</i> 9295.                                                                           |
| <b>Podophyllaceae</b>                                                            |                                                                                                                                             |
| <i>Podophyllum hexandrum</i> Royle.                                              | Poonch, Lohren forest, 2200 m, 9.1.2010, <i>Akhtar</i> 951.                                                                                 |
| <b>Polygonaceae</b>                                                              |                                                                                                                                             |
| <i>Fagopyrum esculentum</i> Moench                                               | Rajouri, Rathal, 1200 m, 20.1.2010, <i>Akhtar</i> 1057.                                                                                     |
| <i>Oxyria digyna</i> (L.) Hill                                                   | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 951.                                                                                        |
| <i>Polygonum orientale</i> L.                                                    | Rajouri, Rathal, 1200 m, 20.1.2010, <i>Akhtar</i> 1056.                                                                                     |
| <i>Rumex acetosa</i> L.                                                          | Poonch, Bufliaz, 1800 m, 10.01.2010, <i>Akhtar</i> 1465.                                                                                    |
| <i>Rumex dentatus</i> L.                                                         | Poonch, Bufliaz, 1800 m, 10.1.2010, <i>Akhtar</i> 965.                                                                                      |
| <i>Rumex hastatus</i> D. Don                                                     | Rajouri, Darhal, 1550 m, and Poonch, Bufliaz, 1800 m, 10.1.2010, <i>Akhtar</i> 1310.                                                        |
| <i>Rumex nepalensis</i> Spreng.                                                  | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1254.                                                                                       |
| <i>Polygonum affine</i> D. Don                                                   | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 954.                                                                                        |
| <i>Polygonum hydropiper</i> L.                                                   | Rajouri, Palma, 1000 m, 20.10.1987, <i>G. H. Dar</i> 9454.                                                                                  |
| <i>Polygonum plebejum</i> R. Br.                                                 | Rajouri, 950 m, grasslands, 5.3.1988, <i>G. H. Dar</i> 9649.                                                                                |
| <b>Portulacaceae</b>                                                             |                                                                                                                                             |
| <i>Portulaca oleracea</i> L.                                                     | Rajouri, city, 950 m, waste ground near bus stand, 22.8.1987, <i>G. H. Dar</i> 9306.                                                        |
| <b>Primulaceae</b>                                                               |                                                                                                                                             |
| <i>Anagallis arvensis</i> L.                                                     | Rajouri, Jawharnagar, 1100 m, 10.2.1988, <i>G. H. Dar</i> 9546.                                                                             |
| <i>Androsace rotundifolia</i> Hardw.                                             | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1054.                                                                                       |
| <i>Androsace umbellata</i> (Lour.) Merr.                                         | Poonch; Mendhar, 900 m, along water courses, flowers white, 6.2.1988, <i>G. H. Dar</i> 9537.                                                |
| <b>Punicaceae</b>                                                                |                                                                                                                                             |
| <i>Punica granatum</i> L.                                                        | Rajouri, Nowshera, 820 m, growing wild on hillocks, 20.9.1987, <i>G. H. Dar</i> 993 ; Poonch, Lohren, 2100 m, 6.1.2010, <i>Akhtar</i> 1225. |
| <b>Ranunculaceae</b>                                                             |                                                                                                                                             |
| <i>Anemone obtusiloba</i> D. Don                                                 | Rajouri, Budhal forest, 2200 m, 5.1.2010, <i>Akhtar</i> 1549.                                                                               |
| <i>Aquilegia fragrans</i> Benth.                                                 | Rajouri, Budhal forest, 2200 m, 5.1.2010, <i>Akhtar</i> 1550.                                                                               |
| <i>Caltha palustris</i> L. var. <i>alba</i> (Jacq. ex Camb.) Hook. f. and Thoms. | Poonch, Lohren, 2100 m, 9.10.2010, <i>Akhtar</i> 1609.                                                                                      |
| <i>Clematis gouriana</i> Roxb.                                                   | Rajouri, Moradpur Nowshera, 820 m, 10.4.1988, <i>G. H. Dar</i> 9713; Ujhan Rajouri, 20.9.1987, <i>G. H. Dar</i> 9409.                       |
| <i>Clematis grata</i> Wall.                                                      | Rajouri, 950 m, 20.10.1987, <i>G. H. Dar</i> 9457.                                                                                          |
| <i>Thalictrum alpinum</i> L.                                                     | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1254.                                                                                       |
| <i>Ranunculus arvensis</i> L.                                                    | Poonch, Mendhar, 900 m, common, 6.2.1988, <i>G. H. Dar</i> 9533.                                                                            |
| <i>Ranunculus hirtellus</i> Royle                                                | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1609.                                                                                       |
| <i>Ranunculus laetus</i> Wall. ex Hook. f. & Thoms                               | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1409.                                                                                       |
| <i>Ranunculus sceleratus</i> L.                                                  | Rajouri, Kheora, 1000 m, 15.3.1988, <i>G. H. Dar</i> 9666.                                                                                  |



TABLE 1. CONTINUED.

| PLANT TAXA                                                                     | DETAILS OF EXSICCATAE                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resedaceae                                                                     |                                                                                                                                                                                                                                                                                                                                                            |
| <i>Oligomeris linifolia</i> (Vahl.) Macbride                                   | Rajouri, Haryan, Budhal, 1800 m, 5.1.2010, <i>Akhtar</i> 1151.                                                                                                                                                                                                                                                                                             |
| Rhamnaceae                                                                     |                                                                                                                                                                                                                                                                                                                                                            |
| <i>Ziziphus mauritiana</i> Lamk.                                               | Rajouri, in front of D.C. office, 950 m, large shrub, up to 3 m, leaves leathery, green above, brownish beneath, 10.10.1987, <i>G. H. Dar</i> 9430, 'Ber'; Poonch, Bufliaz, 1900 m, 8.1.2010, <i>Akhtar</i> 1099.                                                                                                                                          |
| <i>Ziziphus mauritiana</i> Lam. var. <i>fruticosa</i> (Haines) Seb. and Balak. | Rajouri, Kheora, 1000 m, roadside hedges, 8.10.1987, fruits yellowish-green, <i>G. H. Dar</i> 9426.                                                                                                                                                                                                                                                        |
| <i>Ziziphus oxyphylla</i> Edgew.                                               | Rajouri, Kheora, 1000 m, roadside hedges, mature fruits red, 8.10.1987 <i>G. H. Dar</i> 9424.                                                                                                                                                                                                                                                              |
| Rosaceae                                                                       |                                                                                                                                                                                                                                                                                                                                                            |
| <i>Cydonia oblonga</i> Mill.                                                   | Poonch, Surankote, 1350 m, 8.1.2010, <i>Akhtar</i> 1426.                                                                                                                                                                                                                                                                                                   |
| <i>Cotoneaster nummularia</i> Fisch. & C. A. Mey.                              | Poonch, Lohren, 2100 m, 9.1.2.010, <i>Akhtar</i> 1209.                                                                                                                                                                                                                                                                                                     |
| <i>Duchesnia indica</i> (Andr.) Focke,                                         | Rajouri, Kheora, 1000 m, 20.5.1988, <i>G. H. Dar</i> 9753; Poonch Mendhar, 6.2.1988, <i>G. H. Dar</i> 9544.                                                                                                                                                                                                                                                |
| <i>Fragaria nubicola</i> Lindley ex Lacaita                                    | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1251.                                                                                                                                                                                                                                                                                                      |
| <i>Geum roylei</i> Bolle                                                       | Poonch, Lohren, 2100 m, 10.1.2010, <i>Akhtar</i> 1212.                                                                                                                                                                                                                                                                                                     |
| <i>Prinsepia utilis</i> Royle                                                  | Rajouri, Haryan Budhal, 1800 m, 5.1.2010, <i>Akhtar</i> 1365.                                                                                                                                                                                                                                                                                              |
| <i>Potentilla nepalensis</i> Hook.                                             | Rajouri, Deragali, 1800 m, flowers red, 12.8.1987, <i>G. H. Dar</i> 9276.                                                                                                                                                                                                                                                                                  |
| <i>Prunus armeniaca</i> L.                                                     | Rajouri,, Haryan Budhal, 1800 m, 5.1.2010, <i>Akhtar</i> 1565                                                                                                                                                                                                                                                                                              |
| <i>Pyrus pashia</i> Buch.- Ham. ex D. Don                                      | Poonch, Bufliaz road, 1800 m, 6.1.2010, <i>Akhtar</i> 1225.                                                                                                                                                                                                                                                                                                |
| <i>Malus domestica</i> Borkh                                                   | Poonch, Bufliaz, 2000 m, 9.1.2010. <i>Akhtar</i> 1424.                                                                                                                                                                                                                                                                                                     |
| <i>Prunus persica</i> (L.) Batsch.                                             | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1527.                                                                                                                                                                                                                                                                                                      |
| <i>Prunus cerasus</i> L.                                                       | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1528.                                                                                                                                                                                                                                                                                                      |
| <i>Prunus tomentosa</i> Thunb.                                                 | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1528.                                                                                                                                                                                                                                                                                                      |
| <i>Rosa webbiana</i> Wall. ex Royle                                            | Poonch, Bufliaz, 2000 m, 9.1.2010, <i>Akhtar</i> 1252.                                                                                                                                                                                                                                                                                                     |
| <i>Rubus niveus</i> Thunb.                                                     | Poonch, Lohren, 2200 m, 9.1.2010, <i>Akhtar</i> 1407.                                                                                                                                                                                                                                                                                                      |
| <i>Rubus ulmifolius</i> Schott                                                 | Poonch, Surankote, 1350 m, 9.1.2010, <i>Akhtar</i> 1421.                                                                                                                                                                                                                                                                                                   |
| <i>Rubus ellipticus</i> Smith                                                  | Rajouri, Jawharnagar, 0950 m, 20.2.1988, <i>G. H. Dar</i> 9580.                                                                                                                                                                                                                                                                                            |
| <i>Spiraea bella</i> Sims                                                      | Rajouri, Haryan, Budhal, 1800 m, 5.1.2010, <i>Akhtar</i> 1834.                                                                                                                                                                                                                                                                                             |
| Rubiaceae                                                                      |                                                                                                                                                                                                                                                                                                                                                            |
| <i>Galium asperifolium</i> Wall.                                               | Poonch, Lohren, 2100 m, 22.1.2010, <i>Akhtar</i> 1315.                                                                                                                                                                                                                                                                                                     |
| <i>Oldenlandia retrorsa</i> Boiss.                                             | Rajouri, Thani Mundi, 1400 m, 20.1.2010, <i>Akhtar</i> 1074.                                                                                                                                                                                                                                                                                               |
| <i>Rubia cordifolia</i> L.                                                     | Rajouri: Kheora, 1000 m, along hedges, 8.10.1987, <i>G. H. Dar</i> 9421. According to Hara and Williams (1977), the correct name for our species is <i>R. wallichiana</i> Decne (which is characterized by smaller, whitish, or grayish-white flowers and blakish fruits) - <i>R. cordifolia</i> is said to have red fruits and not occurring in our area. |
| Rutaceae                                                                       |                                                                                                                                                                                                                                                                                                                                                            |
| <i>Zanthoxylum armatum</i> DC.                                                 | Rajouri, Thania Mandi, 1400 m, 6.1.2010, <i>Akhtar</i> 1227.                                                                                                                                                                                                                                                                                               |
| Salicaceae                                                                     |                                                                                                                                                                                                                                                                                                                                                            |
| <i>Populus ciliata</i> Wall. ex Royle                                          | Poonch, Lohren, 2100 m, 8.1.2010, <i>Akhtar</i> 1204.                                                                                                                                                                                                                                                                                                      |
| <i>Salix alba</i> L.                                                           | Poonch, Bufliaz road, 1800 m, 8.1.2010, <i>Akhtar</i> 1206.                                                                                                                                                                                                                                                                                                |
| <i>Salix babylonica</i> L.                                                     | Rajouri, Darhal, 1550 m and Poonch, Surankote, 1350 m, 8.1.2010, <i>Akhtar</i> 1205.                                                                                                                                                                                                                                                                       |
| Sapindaceae                                                                    |                                                                                                                                                                                                                                                                                                                                                            |
| <i>Sapindus mukorossi</i> Gaertn.                                              | Rajouri, Darhal, 1550 m, 6.1.2010, <i>Akhtar</i> 1228.                                                                                                                                                                                                                                                                                                     |
| Scrophulariaceae                                                               |                                                                                                                                                                                                                                                                                                                                                            |
| <i>Limosella aquatica</i> L.                                                   | Rajouri Air field, 950 m, 4.8.1987, <i>G. H. Dar</i> 9235.                                                                                                                                                                                                                                                                                                 |
| <i>Lindenbergia indica</i> (L.) Vatke                                          | Rajouri, Shahdara Sharief, 1550 m, 16.8.1987, <i>G. H. Dar</i> 9281.<br>On gravel and sandy slopes along road to shrine, flowers yellow.                                                                                                                                                                                                                   |
| <i>Lindernia crustacea</i> (L.) F.V. Mueller                                   | Rajouri, Ujhan, 1000 m, moist places, 27.9.1988, <i>G. H. Dar</i> 9774; Rajouri Kheora, moist roadsides, flowers purple, 10.8.1987, <i>G. H. Dar</i> 9428; 05. 03. 1988, <i>G. H. Dar</i> 9640; Degree College campus, 1.10.1988, <i>G. H. Dar</i> 9792 (flowers white); Deragali, Poonch, 12.8.1987, <i>G. H. Dar</i> 9256.                               |
| <i>Mimulus strictus</i> Benth.                                                 | Rajouri, 950 m, moist places in paddy fields. Flowers light purple, (stated to be white or pale blue in Indian plants) 18.1.1988, <i>G. H. Dar</i> 9509.                                                                                                                                                                                                   |
| <i>Mazus japonicas</i> (Thunb.) O. Ktze                                        | Rajouri, Bonati, 1000 m, along cultivated fields, 5.3.1988, <i>G. H. Dar</i> 965; Poonch, Mendhar, 900 m, sides of water courses in cultivated fields, 6.2.1988, <i>G. H. Dar</i> 9543.                                                                                                                                                                    |
| <i>Mazus surculosus</i> D. Don.                                                | Poonch, Noorichumb, 2200 m, often grassy hill slopes, 12.8.1987. <i>G. H. Dar</i> 9251. A diffuse, stoloniferous plant with ± rounded leaf blades and rounded teeth or lobes.                                                                                                                                                                              |
| <i>Veronica biloba</i> L.                                                      | Poonch, Lohren road, 1900 m, 9.1.2010, <i>Akhtar</i> 927.                                                                                                                                                                                                                                                                                                  |
| <i>Veronica persica</i> Poir.                                                  | Rajouri, 950 m, along vegetable fields, 20.2.1988, <i>G. H. Dar</i> 9500; Poonch, Mendhar, 900 m, common, 6.2.1988, <i>G. H. Dar</i> 9534; Budhal, Rajouri, 1800 m, 5.1.2010, <i>Akhtar</i> 1159.                                                                                                                                                          |
| <i>Veronica melissifolia</i> Desf. ex Poir. ( <i>V. laxa</i> Benth.).          | Mendhar, Saki Maidian, Poonch, 900 m, 9.1.2010, <i>Akhtar</i> 1127.                                                                                                                                                                                                                                                                                        |
| <i>Veronica beccabunga</i> L.                                                  | Rajouri, Budhal, 1800 m, 5.1.2010, <i>Akhtar</i> 1502.                                                                                                                                                                                                                                                                                                     |

TABLE 1. CONTINUED.

| PLANT TAXA                                      | DETAILS OF EXSICCATAE                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Wulfenia amherstiana</i> Wall. ex Benth.     | Noorichumb, Poonch, 2200 m, flowers violet blue 12.8.1987, <i>G. H. Dar</i> 9258. An interesting plant with $\pm$ horizontal flowers and far exserted filiform styles, especially conspicuous after falling of corolla.                                                                                                                                                       |
| Simaroubaceae                                   |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Ailanthus altissima</i> (Mill.) Swingle      | Poonch, Surankote, 1350 m, 10.1.2010, <i>Akhtar</i> 1215.                                                                                                                                                                                                                                                                                                                     |
| Solanaceae                                      |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Atropa acuminata</i> Royle                   | Poonch, Lohren forest, 2450 m, 6.1.2010, <i>Akhtar</i> 1225.                                                                                                                                                                                                                                                                                                                  |
| <i>Cestrum nocturnum</i> L.                     | Rajouri, Kheora, 1000 m, 9.7.1987, <i>G. H. Dar</i> 9790.                                                                                                                                                                                                                                                                                                                     |
| <i>Datura stramonium</i> L.                     | Rajouri city roadsides and waste places, 950 m, flowers white, tube bluish, 22.8.1987, <i>G. H. Dar</i> 9305.                                                                                                                                                                                                                                                                 |
| <i>Hyoscyamus niger</i> L.                      | Poonch, Lohren forest, 2300 m, 6.1.2010, <i>Akhtar</i> 925.                                                                                                                                                                                                                                                                                                                   |
| <i>Nicotiana plumbaginifolia</i> Viv.           | Rajouri, Sora, 1000 m, 20.12.1987, <i>G. H. Dar</i> 9495.                                                                                                                                                                                                                                                                                                                     |
| <i>Physalis minima</i> L.                       | Rajouri, Kheora, 1000 m, 9.7.1987, <i>G. H. Dar</i> 9390.                                                                                                                                                                                                                                                                                                                     |
| <i>Solanum miniatum</i> Bernh. ex Willd.        | Rajouri, roadsides, 950 m, 5.3.1988, <i>G. H. Dar</i> 964; Rajouri city, along Kitchen gardens, flowers white, peduncles longer than pedicels, berries black, 28.8.1987, <i>G. H. Dar</i> 9325 (other forms with peduncles shorter than pedicels, and berries red are seen at Noorichumb); Rajouri, Budhal, 1900 m, 5.1.2010, <i>Akhtar</i> 1502.                             |
| <i>Solanum incanum</i> L.                       | Rajouri, Kalakote, 780 m, waste places, flowers cream-white, 1.9.1987, <i>G. H. Dar</i> 9346.                                                                                                                                                                                                                                                                                 |
| <i>Solanum pseudocapsicum</i> L.                | Rajouri, Darhal, 1550 m, 6.1.2010, <i>Akhtar</i> 1589.                                                                                                                                                                                                                                                                                                                        |
| <i>Solanum erianthum</i> D. Don                 | Poonch, Lohren, 2200 m, 6.1.2010, <i>Akhtar</i> 1725.                                                                                                                                                                                                                                                                                                                         |
| Theaceae                                        |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Eurya acuminata</i> DC.                      | Poonch, Dera Ki Gali, 1800 m, 20.10.2006, <i>Z. S. Khan</i> 1234.                                                                                                                                                                                                                                                                                                             |
| Thymeleaceae                                    |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Daphne oleoides</i> Schreber                 | Poonch, Lohren forest, 2200 m, 9.1.2010, <i>Akhtar</i> 1247.                                                                                                                                                                                                                                                                                                                  |
| Tiliaceae                                       |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Grewia optiva</i> Drummond ex Burret         | Rajouri, Kheora, 1000 m, 30.3.1988, <i>G. H. Dar</i> 9686; Rajouri, 950 m, 20.10.1987, <i>G. H. Dar</i> 9458; Poonch road, 900 m, 10.1.2010, <i>Akhtar</i> 1213; Rajouri, Budhal forest, 2200 m, 8.1.2010, <i>Akhtar</i> 1230.                                                                                                                                                |
| <i>Corchorus aestuans</i> L.                    | Rajouri, Ujhan, 1000 m, along cultivated and waste fields, 27.9.1988, <i>G. H. Dar</i> 9781.<br>A coarse fibre is occasionally extracted from this plant in parts of India which is of no commercial value. The roots and leaves are said to cure gonorrhoea and used in making an injection for urethral discharge. The seeds are stomachiac and used in treating pneumonia. |
| Ulmaceae                                        |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Celtis australis</i> L.                      | Rajouri, Budhal forest and Poonch, Surankote, 1800 m, 5.1.2010, <i>Akhtar</i> 1202.                                                                                                                                                                                                                                                                                           |
| <i>Ulmus villosa</i> Brandis ex Gamble          | Poonch, Lohren, 2200 m, 9.1.2010, <i>Akhtar</i> 1291; Poonch, Mendhar, 900 m a frequent tree, 6.2.1988, <i>G. H. Dar</i> 9517.                                                                                                                                                                                                                                                |
| Urticaceae                                      |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Debregeasia salicifolia</i> (D. Don) Rendle  | Rajouri: Shahdara Sharief, 1550 m, common shrub with reddish brown, grey-tomentose branches and white-tomentose undersurface of leaves; male perianth light pink, 17.2.1988, <i>G. H. Dar</i> 9561.                                                                                                                                                                           |
| <i>Pilea umbrosa</i> Wedd.                      | Poonch, Noorichumb, 2200 m, moist scrubby slopes, 12.8.1987, <i>G. H. Dar</i> 9278.                                                                                                                                                                                                                                                                                           |
| <i>Urtica dioica</i> L.                         | Poonch, Lohren, 2200 m, 6.1.2010, <i>Akhtar</i> 1411.                                                                                                                                                                                                                                                                                                                         |
| Violaceae                                       |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Viola biflora</i> L.                         | Poonch, Bufliaz forest, 1800 m, 8.1.2010, <i>Akhtar</i> 1249 b.                                                                                                                                                                                                                                                                                                               |
| <i>Viola odorata</i> L.                         | Poonch, Bufliaz forest, 1800 m, 5.1.2010, <i>Akhtar</i> 1249 a.                                                                                                                                                                                                                                                                                                               |
| <b>Angiosperms: Monocotyledons</b>              |                                                                                                                                                                                                                                                                                                                                                                               |
| Alliaceae                                       |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Allium jacquemontii</i> Kunth                | Rajouri, 1000 m, sandy slopes along roadsides enroute to the Degree College, 25.4.1988, <i>G. H. Dar</i> 9445.                                                                                                                                                                                                                                                                |
| Araceae                                         |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Arisaema flavum</i> (Forssk.) Schott.        | Poonch, Noorichumb, 2200 m, common throughout, right from Rajouri, 12.8.1987, <i>G. H. Dar</i> 9248.                                                                                                                                                                                                                                                                          |
| Arecaceae                                       |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Phoenix humilis</i> Royle                    | Rajouri city, lawns and parks, 950 m, 9.8.1993, <i>G. H. Dar</i> 9953.                                                                                                                                                                                                                                                                                                        |
| Cyperaceae                                      |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Cyperus difformis</i> L.                     | Rajouri, Sora, 1000 m, 20.8.1987, <i>G. H. Dar</i> 9695.                                                                                                                                                                                                                                                                                                                      |
| <i>Cyperus exaltatus</i> Retz.                  | Rajouri, 950 m, 22.7.1987, <i>G. H. Dar</i> 9195.                                                                                                                                                                                                                                                                                                                             |
| <i>Cyperus rotundus</i> L.                      | Rajouri, Kheora, 1000 m, 22.9.1987, <i>G. H. Dar</i> 9295.                                                                                                                                                                                                                                                                                                                    |
| <i>Fimbristylis bisumbellata</i> (Forssk.) Bub. | Rajouri, 950 m, 30.8.1987, <i>G. H. Dar</i> 9945.                                                                                                                                                                                                                                                                                                                             |
| <i>Scirpus juncoides</i> Roxb.                  | Rajouri, Kheora, 1000 m, 21.8.1987, <i>G. H. Dar</i> 9795.                                                                                                                                                                                                                                                                                                                    |
| Liliaceae                                       |                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Colchicum luteum</i> Baker                   | Poonch, Lohren forest, 2300 m, 9.1.2010, <i>Akhtar</i> 1294.                                                                                                                                                                                                                                                                                                                  |
| <i>Fritillaria imperialis</i> L.                | Poonch, Lohren forest, 2300 m, 9.1.2010, <i>Akhtar</i> 1295.                                                                                                                                                                                                                                                                                                                  |
| Orchidaceae                                     |                                                                                                                                                                                                                                                                                                                                                                               |

TABLE 1. CONTINUED.

| PLANT TAXA                                                                 | DETAILS OF EXSICCATAE                                                                                                                                                              |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Spiranthes lancea</i> (Thunb.) Backer                                   | Rajouri, Thanna Mandi, 1500 m, 20.2.1988, <i>G. H. Dar</i> 9579.                                                                                                                   |
| <i>Zeuxine strateumatica</i> (L.) Schlechter                               | Poonch, Mendhar, 900 m, moist sides of water channels, infrequent, 6.2.1988, <i>G. H. Dar</i> 9545.<br>A small annual herb, flowers white with reddish tinge.                      |
| Poaceae                                                                    |                                                                                                                                                                                    |
| <i>Agrostis munroana</i> Aitch. & Hemsl.                                   | Rajouri, Kheora, 1000 m, 20.10.1987, <i>G. H. Dar</i> 9439; Ujhan, Rajouri, 15.9.1987, <i>G. H. Dar</i> 9352.                                                                      |
| <i>Apluda mutica</i> L.                                                    | Rajouri, Kheora, 1000 m, 20.10.1987, <i>G. H. Dar</i> 9445.                                                                                                                        |
| <i>Arrhaxon lancifolius</i> (Trin.) Hochst.                                | Rajouri, Chingus, Nowshera, 860 m, 6.1.2010, <i>Akhtar</i> 1104.                                                                                                                   |
| <i>Bothriochloa ischaemum</i> (L.) Keng                                    | Poonch, Lohren, 2100 m, crop field, 9.1.2010, <i>Akhtar</i> 1278.                                                                                                                  |
| <i>Brachiaria ramosa</i> (L.) Griseb.                                      | Rajouri, Ujhan, 1100 m, 27.9.1988, <i>G. H. Dar</i> 9879.                                                                                                                          |
| <i>Bromus japonicus</i> Thunb. ex Murr.                                    | Poonch road, 950 m, 6.1.2010, <i>Akhtar</i> 1405.                                                                                                                                  |
| <i>Capillipedium assimile</i> (Steud.) A. Camus                            | Rajouri, Kheora, 1000 m, 20.10.1987, <i>G. H. Dar</i> 9442.                                                                                                                        |
| <i>Chrysopogon gryllus</i> Trin. ssp. <i>echinulatus</i> (Nees) T. A. Cope | Poonch, Mendhar, 900 m, 6. 2.1988, <i>G. H. Dar</i> 9522.                                                                                                                          |
| <i>Cymbopogon pospischilii</i> (K. Schum.) C. E. Hubbard                   | Rajouri, Chowdhary Nar, 1050 m, 15.9.1987, <i>G. H. Dar</i> 9356.                                                                                                                  |
| <i>Cymbopogon martinii</i> (Roxb.) Wats.                                   | Rajouri, Kheora, 1000 m, 20.9.1987, <i>G. H. Dar</i> 9391.                                                                                                                         |
| <i>Cymbopogon distans</i> (Nees ex Steud.) Wat                             | Rajouri, 950 m, 1.12.1987, <i>G. H. Dar</i> 9489.                                                                                                                                  |
| <i>Cynodon dactylon</i> (L.) Pers.                                         | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1279.                                                                                                                              |
| <i>Digitaria ciliaris</i> (Retz.) Koel.                                    | Rajouri, 950 m, 30.8.1988, <i>G. H. Dar</i> 9948.                                                                                                                                  |
| <i>Digitaria setigera</i> Roth ex Roem. & Schult.                          | Rajouri, Air field, 950 m, 27.9.1988, <i>G. H. Dar</i> 9919.                                                                                                                       |
| <i>Eleusine indica</i> (L.) Gaertn.                                        | Rajouri, 950 m, 30.8.1987, <i>G. H. Dar</i> 9345.                                                                                                                                  |
| <i>Hemarthria compressa</i> (L. f.) R. Br.                                 | Rajouri, 950 m, 31.8.1987, <i>G. H. Dar</i> 9763.                                                                                                                                  |
| <i>Imperata cylindrica</i> (L.) Raeuschel                                  | Rajouri, Kheora, 1000 m, 20.9.1987, <i>G. H. Dar</i> 9394.                                                                                                                         |
| <i>Isachne himalaica</i> Hook. f.                                          | Rajouri, Ujhan, 1050 m, 27.9.1988, <i>G. H. Dar</i> 9889.                                                                                                                          |
| <i>Lolium perenne</i> L.                                                   | Poonch, Lohren, 2100 m, 9.1.2010, <i>Akhtar</i> 1268.                                                                                                                              |
| <i>Oplismenus compositus</i> (L.) P. Beauv.                                | Rajouri, 950 m, 31.8.1988, <i>G. H. Dar</i> 9997.                                                                                                                                  |
| <i>Pennisetum orientale</i> L. C. Rich.                                    | Rajouri, Chowdhary Nar, 1050 m, 20.8.1987, <i>G. H. Dar</i> 9358; Kheora, Rajouri, 20.8.1987, <i>G. H. Dar</i> 9359; Poonch, Noorichumb, 2200 m, 12.8.1987, <i>G. H. Dar</i> 9257. |
| <i>Phragmites karka</i> (Retz.) Trin. ex Steud.                            | Rajouri, Ujhan, 1050 m, 27.9.1988, <i>G. H. Dar</i> 9989.                                                                                                                          |
| <i>Poa pratensis</i> L.                                                    | Poonch, Bufliaz, 1800 m, 8.1.2010, <i>Akhtar</i> 1269.                                                                                                                             |
| <i>Poa bulbosa</i> L.                                                      | Poonch, Bufliaz, 1800 m, 8.1.2010, <i>Akhtar</i> 1452.                                                                                                                             |
| <i>Setaria pumila</i> (Poir.) Roem. & Schult.                              | Rajouri, 950 m, 30.8.1987, <i>G. H. Dar</i> 9947.                                                                                                                                  |
| <i>Setaria viridis</i> (L.) P. Beauv.                                      | Rajouri, 950 m, 30.8.1987, <i>G. H. Dar</i> 9946.                                                                                                                                  |
| <i>Sorghum halepense</i> (L.) Pers.                                        | Poonch, Lohren, 2100 m, crop field, 9.1.2010, <i>Akhtar</i> 1674                                                                                                                   |
| <i>Sorghum nitidum</i> (Vahl) Pers.                                        | Poonch, Lohren, 950 m, crop field, 9.1.2010, <i>Akhtar</i> 1675                                                                                                                    |
| <i>Themeda anathera</i> (Nees ex Steud.) Hack.                             | Rajouri, Ujhan, 1050 m, 27.9.1988, <i>G. H. Dar</i> 9789 a.                                                                                                                        |
| <i>Triticum aestivum</i> L.                                                | Cultivated. Rajouri, Ujhan, 1050 m, 27.9.1988, <i>G. H. Dar</i> 9789 b                                                                                                             |
| <i>Stipa sibirica</i> (L.) Lam.                                            | Poonch, Lohren forest, 2300 m, 9.1.2010, <i>Akhtar</i> 1129.                                                                                                                       |
| Potamogetonaceae                                                           |                                                                                                                                                                                    |
| <i>Potamogeton perfoliatus</i> L.                                          | Poonch, Mendhar, 900 m, in water channels along with <i>Chara</i> species; 6. 2.1988, <i>G. H. Dar</i> 9518.                                                                       |
| Typhaceae                                                                  |                                                                                                                                                                                    |
| <i>Typha angustata</i> Bory and Chaub.                                     | Poonch, Surankote, 1350 m, marshes and stream banks, 9.1.2010, <i>Akhtar</i> 1621.                                                                                                 |

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