

SOME ADDITIONS TO THE LIST OF PLANTS OF DODA DISTRICT OF
JAMMU & KASHMIR

GURCHARAN SINGH AND B. A. WAFAI

Kashmir University, Srinagar

ABSTRACT

The paper lists an additional 56 species of flowering plants for Doda district of Jammu & Kashmir. The collections pertain to the Bhaderwah proper and its outskirts forming the part of Bhaderwah tehsil.

Though references to the plants of the Doda district of Jammu & Kashmir have been made by Hooker (1872-97), Blatter (1927-29), Rao (1960) and Sarin (1965), it was not until Kapoor (1968) seriously undertook to bring on record a large collection of plants of this district that a reasonable account of the plants of the area was available. However, much remains to be done in this difficult terrain over which the district extends. A realization of this fact led to the present exploration. In the first instance Bhaderwah and its outskirts have been surveyed and as a result nearly 420 species of flowering plants have been collected. Of these, only those which are hitherto not recorded from Doda district are being enumerated in the present communication.

Bhaderwah, which forms one of the four tehsils of Doda district (the other three being Ramban, Kishtwar and Doda), is situated at the base of thickly vegetated lofty mountains surrounding it on all sides. The valley is nearly V-shaped having a rolling slope and extends about 10 km in length and 3 km in breadth. The lower levels are dominated by Oaks, Deodars and several deciduous elements, while higher up Pines are more common. The alpine ranges covered with green meadows mostly comprising *Sieversia alata* Royle, *Potentilla* sp., *Anaphalis cuneifolia* Hook. f. etc. The area in general is dominated by the members of Ranunculaceae, Cruciferae and Compositae. The explorations were made mostly from Soij, Pedri, Jai, Sarthal, Panaja, Daraja, Sartangal, Gupt Ganga side and other regions on outskirts of Bhaderwah proper.

The voucher specimens of the plants enumerated below are deposited in the Herbarium of Botany Department, Kashmir University, Srinagar.

ENUMERATION

Allium consanguineum Kunth

Below Soij (No. 522).

A. victorialis Linn.

Ram Tund: Sona Bani mountain (No. 236).

Anaphalis cuneifolia Hook. f.

Near Soij (No. 294), Kailash mountains (No. 144).

Arctium lappa Linn.

Bhaderwah proper (No. 373), near Gupt Ganga (No. 580).

Arabidopsis wallichii (Hook. f. & T.) Busch

Near Chatergall (No. 174), Bhaderwah proper (No. 38).

Artemisia amygdalina Decne.

Bhaderwah forest (No. 510).

Barbarea vulgaris R. Br.

Near Gupt Ganga (No. 411).

Carex nivalis Boot var. **griffithii** (Boot) Koyama

Near Soij (No. 310), Kailash mountains (No. 313).

Cardamine hirsuta Linn.

Bhaderwah proper (No. 377), Main Nagar (No. 113).

Circaea alpina Linn. subsp. **imaicola** (Aschers & Magn.) Kitamura

Near Pedri (No. 516).

Coronopus didymus (Linn.) Smith

Main Nagar (No. 421).

Corydalis diphylla Sibth.

Bhaderwah forest (No. 442).

Cyperus serotinus Roth.

Bhaderwah proper (No. 493), Main Nagar (No. 445).

Delphinium vestitum Wall.

Near Soij (No. 145).

Eleusine indica (Linn.) Gaertn.

Main Nagar (No. 321), Bhaderwah proper (No. 326).

Foeniculum vulgare Mill.

Bhaderwah proper (No. 464).

Galium verum Linn.

Bhaderwah forest (No. 482).

- Gentiana venusta** Wall.
Near Soij (No. 247), Kailash mountains (No. 137).
- G. tenella** Fries
Between Soij and Pedri (No. 59).
- Gypsophila cerastoides** Don
Between Soij and Pedri (No. 86).
- Imperata cylindrica** (Linn.) P. Beauv.
Bhaderwah proper (No. 29).
- Juncus articulatus** Linn.
Bhaderwah proper (No. 552).
- J. membranaceus** Royle ex Don
Near Soij (No. 487).
- Lactuca dissecta** Don
Between Shinala and Sartangal (No. 519).
- Lamium amplexicaule** Linn.
Bhaderwah proper (No. 194).
- L. album** Linn.
Near Pedri (No. 26).
- Lathyrus aphaca** Linn.
Main Nagar (No. 460).
- Lepidium ruderales** Linn.
Bhaderwah proper (No. 435).
- Lychnis coronaria** (Linn.) Desr.
Dharaja (No. 462).
- Lythrum salicaria** Linn.
Near Sartangal (No. 437).
- Macrotomia benthami** DC.
Pedri (No. 128).
- Medicago polymorpha** Linn.
Main Nagar (No. 206).
- Mycosotis caespitosa** Schultz.
Sartangal (No. 89), Ghata (No. 103).
- Myriactis nepalensis** Less.
Near Soij (No. 51).
- Oenothera drummondii** Hook.
Bhaderwah proper (No. 479).
- Phlomis bracteosa** Royle ex Benth.
Below Soij (No. 108).
- Polygonum delicatulum** Meissn.
Near Soij (No. 270).
- P. dumetorum** Linn.
Main Nagar (No. 340).
- P. nepalensis** Meissn.
Bhaderwah proper (No. 495).
- Potentilla ambigua** Camb.
Kailash mountains (No. 511).
- P. atrosanguinea** Lodd ex Don
Between Pedri and Soij (No. 217).
- Ranunculus muricatus** Linn.
Main Nagar (No. 209).

- Saxifraga hirculus** Linn.
Near Soij (No. 535), Kailash mountains (No. 516).
- Sedum tibeticum** Hook. f. & T.
Near Soij (No. 245).
- S. trullipetalum** Hook. f. & T.
Near Soij (No. 525), Kailash mountains (No. 522).
- Scirpus juncoides** Roxb.
Main Nagar (No. 530).
- Sieversia elata** Royle
Near Pedri (No. 73).
- Spergula arvensis** Linn.
Bhaderwah proper (No. 523).
- Stachys floccosa** Benth.
Bhaderwah forest (No. 499).
- Swertia petiolata** Royle
Below Pedri (No. 117).
- Thlaspi cardiocarpum** Hook. f. & T.
Main Nagar (No. 162).
- Tulipa clusiana** var. **stellata** Rgl.
Bhaderwah proper (No. 333).
- Veronica persica** Poir.
Main Nagar (No. 216).
- V. salina** Schur.
Main Nagar (No. 502).
- Youngia japonica** (Linn.) DC.
Main Nagar (No. 207).

ACKNOWLEDGEMENTS

The authors are grateful to Prof. P. Kachroo, Head of the Botany Department, Kashmir University for encouragements and facilities to work, and to Dr. A. K. Koul for valuable suggestions. Thanks are also due to the authorities of the herbaria of Forest Research Institutes, Dehra Dun and Central National Herbarium, Calcutta for facilities to work in these herbaria where personal confirmations were made by the senior author.

REFERENCES

- BLATTER, E. *Beautiful Flowers of Kashmir*. Westminster. Vols. 1 & 2. 1927-29.
- HOOKE, J. D. *The flora of British India*. London. Vols. 1-7. 1872-97.
- KAPOOR, S. L. Material for a Flora of the Doda district of Jammu and Kashmir State. *Bull. bot. Surv. India* 10(1) : 28-49. 1968.
- RAO, T. A. A further contribution to the Flora of Kashmir. *Ibid.* 2(3-4) : 387-423. 1960.
- SARIN, Y. K. Medicinal, Quasi-Medicinal and Economic plants of Bhaderwah forest Division. *Indian For.* 91(8) : 559-572. 1965.