

ON A COLLECTION OF GRASSES FROM BARI-BARELI RANGE (RAISEN DISTRICT), M. P.

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ABSTRACT

A systematic account of the grasses of Bari-Bareli Range is given as the area is likely to be submerged on account of the proposed dam on the Barna river.

INTRODUCTION

Bari-Bareli Range lies in Raisen Dist. east of Hoshangabad between the longitudes $77^{\circ} 15'$ and 79° east and latitudes $22^{\circ} 46'$ and $23^{\circ} 45'$ north at a distance of 19 km from Bareli town. The forest land covers an area of 1849.67 sq. km. The study of the area was all the same important since the dam was proposed to be built at Bari on Barna river in which quite a good area of the forest was to have been submerged.

PHYSIOGRAPHY AND GEOLOGY

The tract is covered by southern tropical dry deciduous forest and at places by dry deciduous scrub forest (Champion 1936). The standing vegetation is a complex mosaic of forest, shrub and grassland communities. Grassland forms an undergrowth, common in forest, deforested areas, fallow lands and in plains etc.

PREVIOUS WORK

This tract has so far not been explored by any other worker though work has been done in other parts of Madhya Pradesh. Those who have made studies of the grasses in Madhya Pradesh are Clouston and Plymen (1920), Clouston (1923), Mehta and Dave (1930), Pandeya (1952, 1960) and Tiwari (1954).

MATERIAL AND METHODS

Taxonomical study of the plants found in the area was made by making regular week-

ly trips during rainy, winter and summer seasons. The plants were collected from different habitats, and the field notes pertaining to habit, habitat, flowering, fruiting etc. were recorded. The plants were identified by the help of various floras. Later, confirmation and identification of unidentified specimens were obtained from Central Circle, Botanical Survey of India, Allahabad. The collections are deposited in the Botany Department, Holkar Science College, Indore. The various species collected during the present work are listed below. They are arranged alphabetically.

Alloteropsis cimicina (Linn.) Stapf

Abundant, found on foot of the hills and in forest floor, fields, abandoned cultivation, as a ruderal in waste places. Fl, Fr: 7-9. V. B. G. 1238.

Andropogon pumilus Roxb.

Common in fields and forest. Fl, Fr: 12. V. B. G. 57, 756.

Apluda mutica Linn.

Common in fields and forest. Fl, Fr: 10-12. V. B. G. 377, 753, 754, 755.

Acrachne racemosa (Heyne.) Ohwi

Not common, found in fields, forest, on hills along river side. Fl, Fr: 9. V. B. G. 399, 418.

Aristida adscensionis Linn.

Common in the fields and on hill slopes. Fl, Fr: 7-5. V. B. G. 751.

Aristida setacea Retz.

Rare, on hill tops. Fl, Fr: 8-9. V. B. G. 357, 495, 752.

Bothriochloa pertusa (Linn.) A. Camus

Common in the fields, forest floor and on the hill slopes. Fl, Fr: 9. V. B. G. 560.

Brachiaria ramosa (Linn.) Stapf

Common throughout the area, in the plains, ground flora and on hill slopes. Fl, Fr: 8-11. V. B. G. 305, 420.

Capillipedium assimile (Steud.) A. Camus

Abundant on deforested soil and on the hills. Fl, Fr: 12. V. B. G. 526.

Chionachne koenigii (Spreng) Thw.

Not common. In plains and on deforested soil. Fl, Fr: 9. V. B. G. 764.

Chloris dolichostachya Lagasca

Common on hills, in fields and forest. Fl, Fr: 8-10. V. B. G. 414, 763.

C. virgata Sw.

Abundant in the fields. Fl, Fr: 10-11. V. B. G. 547, 765.

Chrysopogon fulvus (Spreng) Chiov.

Common on hills, crevices and forest floor. Fl, Fr: 8-10. V. B. G. 355.

Coix lachryma-jobi Linn.

Not common, found in fields and forest floor on damp soils. Fl, Fr: 10. V. B. G. 518.

Cymbopogon martinii (Roxb.) Wats.

Abundant in fields, forest and on hill slopes. Fl, Fr: 9-11. V. B. G. 260, 510, 598, 759, 760.

Cynodon dactylon (Linn.) Pers.

Abundant all over the area. Fl, Fr: 1-12. V. B. G. 47, 265, 761.

Dactyloctenium aegyptium (Linn.) P. Beauv.

Common in bushes, shrubs, and a weed in, cultivated and open fields. Fl, Fr: 9-11. V. B. G. 545, 771.

Dendrocalamus strictus Nees

Common on hills and in ground flora. Fl, Fr: 12-6.

Dicanthium annulatum (Forsk.) Stapf

Abundant throughout, in the fields, roadside, forest and foot of the hills. Fl, Fr: 10-11. V. B. G. 253, 767, 768.

D. aristatum (Poir.) C. E. Hubbard

Common in fields, forest and river side. Fl, Fr: 11-12. V. B. G. 766, 774, 775.

D. caricosum (Linn.) A. Camus

Common in forest floor, foot of the hills, fields and along river side. Fl, Fr: 12. V. B. G. 776.

Digitaria adscendens (HBK) Henr.

Abundant all over the area in the fields, forest, hills and river side. Fl, Fr: 7-10. V. B. G. 46, 289, 408, 772.

D. biformis Willd.

Common in forest floor and fields. Fl, Fr: 8-9. V. B. G. 323.

D. granularis (Trin.) Henr.

Found common in forest area, on the foot of the hills and in the fields. Fl, Fr: 8-10. V. B. G. 769, 770.

D. longiflora (Retz.) Pers.

Found common in the fields. Fl, Fr: 8-9. V. B. G. 332.

D. stricta Roth ex Roem. et Schult.

Common in fields, forest, hills, river side. Fl, Fr: 11-12. V. B. G. 409.

Dinebra retroflexa (Vahl) Panz.

Common in forest floor and along river side. Fl, Fr: 11-12. V. B. G. 564, 773, 774.

Echinochloa colonum (Linn.) Link

Common in fields, hills, forest floor, river side. Fl, Fr: 8-10. V. B. G. 62, 243, 307, 419, 784.

E. crusgalli (Linn.) P. Beauv.

Common along river side. Fl, Fr: 11. V. B. G. 461.

E. frumentacea Link

Common in the fields. Fl, Fr: 10. V. B. G. 790.

Eragrostiella brachyphylla (Stapf) Bor

Found on the deforested soil, along the ditches, foot of the hills. Not common. Fl, Fr: 9-10. V. B. G. 217, 256, 789.

Eragrostis cilianensis (All.) Vignolo-Lutati

Common along the river banks. Fl, Fr: 12-2. V. B. G. 55.

E. gangetica (Roxb.) Steud.

Common in the fields. Fl, Fr: 7-10.
V. B. G. 777.

Eragrostis japonica (Thunb.) Trin.

Common in fields and along the river side.
Fl, Fr: 9-12. V. B. G. 792.

E. pilosa (Linn.) P. Beauv.

Common in forest floor on damp soil. Fl,
Fr: 5-11. V. B. G. 791.

E. tenella (Linn.) P. Beauv. ex Roem. et
Schult.

Common on damp soil in the forest floor.
Fl, Fr: 8-9. V. B. G. 561, 778.

E. uniloides (Retz.) Nees ex Steud.

Common on moist damp soil in forest
floor. Fl, Fr: 8-10. V. B. G. 456, 786.

Hackelochloa granularis (Linn.) O. Ktze.

Not common. Found in fields and forest
floor. Fl, Fr: 9. V. B. G. 354.

Hemarthria compressa (Linn. f.) R. Br.

Common along the borders of cultivated
fields, and in forest floor. Fl, Fr: 11. V. B. G.
819, 820.

Heteropogon contortus (Linn.) P. Beauv. ex
Roem. et Schult.

Common on hill tops and in ground forest
flora. Fl, Fr: 8-10. V. B. G. 359, 498, 818.

Imperata cylindrica (Linn.) P. Beauv.

Not common, found in fields. Fl, Fr: 7-10.
V. B. G. 793, 794.

Ischaemum rugosum Salis.

Common in the fields. Fl, Fr: 10. V. B. G.
792.

Iseilema laxum Hack.

Common in the fields. Fl, Fr: 10-2.
V. B. G. 40, 796, 797.

I. prostratum (Linn.) Anders.

Common in fields and forest area. Fl, Fr:
11. V. B. G. 49, 795.

Melanocenchris jacquemontii Jaub et Spach

Found on hill slopes in the rock crevices.
Fl, Fr: 7-10. V. B. G. 258, 287.

Oplismenus burmanii (Retz.) P. Beauv.

Common in the fields. Fl, Fr: 9-10.
V. B. G. 520, 527, 826.

Oryza rufipogon Griff.

Common in the forest area. Fl, Fr: 9-10.
V. B. G. 311.

O. sativa Linn.

As an escape along water ditches. Fl, Fr:
9-10. V. B. G. 957.

Paspaladium flavidum (Retz.) A. Camus

Found in grass fields in the open, forest
floor and at the foot of the hills. Fl, Fr:
9-10. V. B. G. 249, 306, 322.

Paspalum scrobiculatum Linn.

Not common, found in the fields and
forest. Fl, Fr: 10. V. B. G. 296, 824, 825.

Pennisetum hohenackeri Hochst ex Steud.

Found on sandy soil near water streams
and river. Fl, Fr: 10. V. B. G. 1093.

P. pedicellatum Trin.

Common in fields and forest floor near the
foot of the hills. Fl, Fr: 9-10. V. B. G. 478.

Phragmites karka (Retz.) Trin. ex Steud.

Common in the fields abutting to river
and river banks. Fl, Fr: 10-2. V. B. G. 824.

Polypogon monspeliensis (Linn.) Desf.

Not common. Found along river banks.
Fl, Fr: 2. V. B. G. 119.

Pseudosorghum fasciculare (Roxb.) A. Camus

Not common, found in the fields. Fl, Fr:
7-9. V. B. G. 1092.

Rottboellia exaltata Linn. f.

Common in fields and on hill slopes. Fl,
Fr: 8-9. V. B. G. 377.

Saccharum spontaneum Linn.

Common in fields and abnoxious weed in
cultivated areas. Fl, Fr: 9. V. B. G. 413, 798.

Sacciolepis interrupta (Willd.) Stapf

Not common, in and around the margins
of ditches. Fl, Fr: 10-2. V. B. G. 578.

Sehima nervosum (Rottl.) Stapf

Common in forest and fields. Fl, Fr: 9.
V. B. G. 803.

S. sulcatum (Hack.) A. Camus

Common in forest and fields. Fl, Fr: 10.
V. B. G. 1087.

Setaria barbata (Lamk.) Kunth

Common in fields and fallow lands. Fl,
Fr: 9-10. V. B. G. 806.

Setaria glauca (Linn.) P. Beauv.

Common in the fields. Fl, Fr: 10. V. B. G. 805.

S. pallide-fusca (Schumach.) Stapf et. C. E. Hubb.

Common in ground forest flora near ditches and fields. Fl, Fr: 8-10. V. B. G. 308, 807, 809, 810.

S. tomentosa (Roxb.) Kunth

Common in forest floor. Fl, Fr: 8-10. V. B. G. 421, 508, 811.

S. verticillata (Linn.) P. Beauv.

Common in fields and in damp and shady places in forest. Fl, Fr: 11. V. B. G. 304.

Sorghum controversum (Steud.) Snowden

A weed in the cultivated fields and along the river side. Fl, Fr: 9-12. V. B. G. 488, 804.

S. halepense (Linn.) Pers.

A weed in cultivated fields, in fallow lands and along the river side. Fl, Fr: 9-12. V. B. G. 570, 799, 801, 802.

Sporobolus coromandelianus (Retz.) Kunth

Not common. Found in the forest floor. Fl, Fr: 1. V. B. G. 1078.

S. wallichii Munro ex Trin.

Common in forest, hills, plains, and deforested soil. Fl, Fr: 8-9. V. B. G. 222, 282, 276.

Themeda laxa (Anders.) A. Camus

Common in the plains, forest and fallow land. Fl, Fr: 10. V. B. G. 465, 483, 814, 815.

Thysanolaena maxima (Roxb.) O. Ktze.

Found along the river bank. Fl, Fr: 11-2. V. B. G. 816, 817.

Urochloa panicoides P. Beauv. var. **velutina** (Henr.) Bor

Common in the grassfields along river banks and in the forest floor. Fl, Fr: 8-10. V. B. G. 304.

Vetiveria zizanioides (Linn.) Nash

Not common, along the margins of the ditches and nearby areas. Fl, Fr: 7-11. V. B. G. 50, 822, 823.

ABBREVIATIONS

Fl=flowers, Fr=fruits. Number 1-12 have respectively been used for the months January-December.

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