STUDY OF WEED FLORA IN DIBRUGARH DISTRICT, ASSAM, NE INDIA

Suman Gogoi

Department of botany, DHSK College, Dibrugarh, Assam.

Abstract: The present study was undertaken to document the diversity of weed flora in different regions of Dibrugarh district, Assam. Data was collected through observation during the months of spring, summer and winter in the year 2020. In this investigation 62 plant species belonging to 36 families were found to exist as weeds in the fields, by the side of the roads and also in the household gardens.

INTRODUCTION

Weeds are the unwanted wild plants that have little or no economic and aesthetic value. These species grow uncontrollably in the fields and gardens etc. and cause inconvenience. They can grow almost anywhere and in large numbers. In crop fields they grow and affect the crops by taking up space and nutrition and thereby harming the crops.

Dibrugarh is a city in the state of Assam in the North-eastern region of India. The region is a biological hotspot with many rare and endemic plant and animal species in the fertile river valleys surrounded by mountains and hills. The favorable growth conditions also encourage the growth of a large variety of weed species, which find their way through any surface like all types of soil, water bodies, grasslands, roadsides, walls, roofs of houses etc.

The present study reports the commonly occurring weed species in different regions of Dibrugarh, Assam.

Materials and methods

The present study was conducted mainly in the villages of Nauholia (tengakhat), Tiloi nagar (khowang) and Borpather (barbaruah block) in Dibrugarh district.

Data was collected through observation.

Results

During the study the following weed species were observed to exist in Dibrugarh district. Fig: Table showing scientific names of weeds, their families and local names.

Scientific name	Family	Local name
1. Acmella oleracia	Asteraceae	Malkathi
2. Ageratum conizoides	Asteraceae	Gundhua bon
3. Agyreia nervosa	Convolvulaceae	-
4. Alternanthera sessilis	Amaranthaceae	Matikaduri
5. Axonopus compressus	Poaceae	-
6. Boerhavia diffusa	Nyctaginaceae	Punonowa
7. Cassia alata	Caesalpineaceae	Khor gos
8. Cassia tora	Leguminaceae	Horu medelua

9. Centella asiatica	Apiaceae	Bor manimuni
10. Chenopodium album	Chenopodiaceae	Jilmil
11. Clerodendrum	Verbenaceae	Nefafu
colebrookianum		
12. Clinopodium vulgare	Lamiaceae	-
13. Colocasia esculanta	Araceae	Kosu
14. Commenlina	Commelinaceae	Kona himolu
benghalensis		
15. Crotolaria junci	Leguminaceae	Jhunjhuna bon
16. Cuphea carthagenensis	Lythraceae	Pani jetuka
17. Curcuma zedoaria	Zingiberaceae	Ketkuri
18. Cynodon dactylon	Poaceae	Dubori bon
19. Cyperus eragrostis	Cyperaceae	-
20. Cyperus rotundus	Cyperaceae	-
21. Datura stramonium	Solanaceae	Kola datura
22. Digitaria ciliaris	Poaceae	-
23. Drymaria cordata	Caryophyllaceae	Lai jabori
24. Eichornia crassipes	Pontederiaceae	Meteka
25. Elsholtzia blanda	Lamiaceae	Bon tulakhi
26. Enhydra fluctuans	Asteraceae	Helechi
27. Eupatorium odoratum	Asteraceae	Germany bon
28. Euphorbia hirta	Euphorbiaceae	-
29. Floscopa glabrata	Commelinaceae	-
30. Fragaria indica	Rosaceae	Goru ghis
31. Hydrocotyle rotundifolia	Araliaceae	Horu manimun
32. Imerata cylindrica	Poaceae	Ulu bon
33. Impatiens balsamina	Balsaminaceae	Dam deuka
34. Ipomoea aquatica	Convolvulaceae	Kolmou
35. Jasminum angustifolium	Oleaceae	Bon khorikajai
36. Lantana camara	Verbenaceae	Gubon
37. Laportea crenulata	Urticaceae	Surat paat
38. Leonurus sibiricus	Lamiaceae	-
39. Leucas aspera	Lamiaceae	Drun bon

	1551 (2010 0200	
40. Ludwigia hyssopifolia	Onagraceae	-
41. Melastoma melabatricum	Melastomataceae	Phutkala
42. Micania scandens	Asteraceae	Prem lota
43. Mimosa pudica	Leguminaceae	Lajuki bon
44. Nephrolepis cordifolia	Nephrolepidaceae	Bilongoni
45. Oldenlandia corymbosa	Rubiaceae	Bon jaluk
46. Oxalis corniculata	Oxalidaceae	Tengesi
47. Paederia foetida	Rubiaceae	Bhedai lota
48. Parthenium	Asteraceae	-
hysterophorus		
49. Phyllanthus niruri	Euphorbiaceae	Bon amlokhi
50. Piper beteloid	Piperaceae	Aaoni paan
51. Polygonum chinensis	Polygonaceae	-
52. Polygonum glabrum	Polygonaceae	-
53. Polygonum hydropiper	Polygonaceae	-
54. Portuleca oleracea	Portulacaceae	Malbhog khutora
55. Saccharum spontaneum	Poaceae	Kahi bon
56. Senna occidentalis	Leguminaceae	-
57. Solanum indicum	Solanaceae	Tita bhekuri
58. Solanum nigrum	Solanaceae	Los kochi
59. Solanum torvum	Solanaceae	Hati bhekuri
60. Torenia bicolor	Linderniaceae	-
61. Urena lobata	Malvaceae	Hunborolua
62. Xyris laxifolia	Xyridaceae	-
63. Zingiber chrysanthum	Zingiberaceae	-

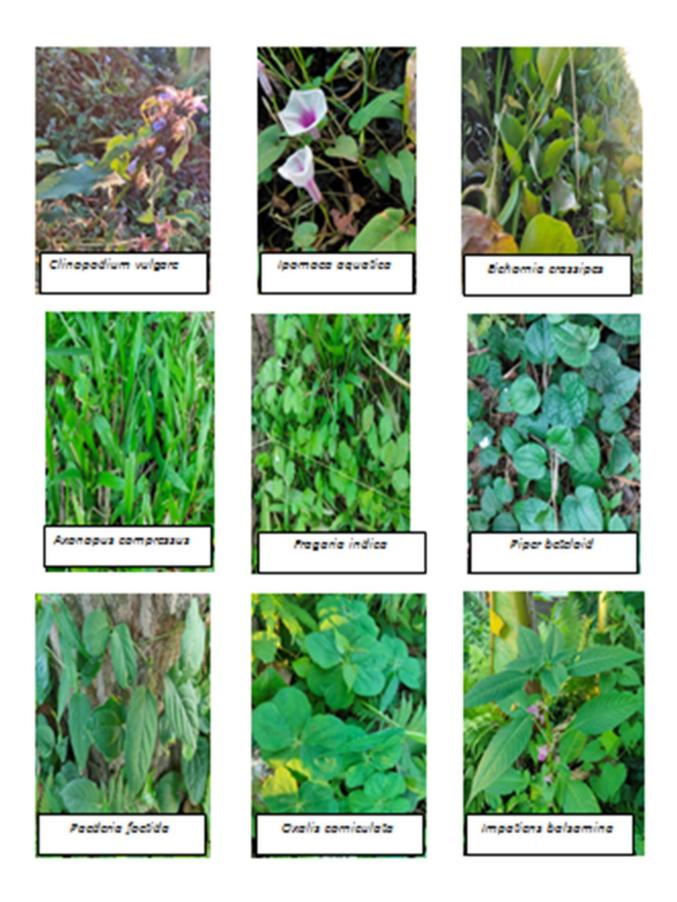
Discussion

In this study 63 plant species were recorded. These plants belonged to 36 different families. The families Asteraceae and Poaceae were found to be most common with 6 and 5 different species respectively, existing as weeds in a large number of places. Four species each of the families Leguminaceae, Lamiaceae and Solanaceae were observed. Three species belonged to Polygonaceae and two species each of Convolvulaceae, Commelinaceae, Cyperaceae, Euphorbiaceae, Rubiaceae, Verbinaceae and Zingiberaceae. The rest of the plants were distributed one species each in the rest of the families.

These weed species cause a lot of inconvenience to the people by growing in different places and surfaces and also to the other plant species by using up their resources.

However, some of these species are seen to possess useful medicinal properties and are used by the local people in preparation of herbal medicine. Some of the weed species are also









References

- 1. Deka J* and Barua I C. Problem weeds and their management in the North-East Himalayas. Indian Journal of Weed Science. 2015; 47(3): 296–305,
- 2. Mehmud S. AN ETHNO-MEDICO BOTANICAL SURVEY REPORT OF DIBRUGARH DISTRICT, ASSAM. Indian Journal of Plant Sciences 2017; Vol.6 (1), pp.17-26
- 3. Nath N, Rao S, Ghosh S, Das A. Major weed flora of wheat and rice fields of Goalpara district, Assam. <u>Environment and Ecology</u>. 2009;Vol.27 No.4 pp.1554-1556 ref.5
- 4. Phukan R and Phukan S. N. WEED FLORA OF LOW LAND RICE FIELDS OF LAKHIMPUR DISTRICT, ASSAM AND ITS ECONOMIC SIGNIFICANCE.Nature Environment and Pollution Technology © Technoscience Publications.2008; Vol. 7 No.1 pp. 127-128
- 5. <u>Saikia, L. R.</u>; <u>Sarma, S. K.</u>. Phytosociological investigation of the rice field weeds of Dibrugarh (Assam). <u>Indian Journal of Ecology</u>. 1993; Vol.20 No.2 pp.173-175 ref.5
- 6. Sarmah R*. Floristic composition and distribution of weeds in different crop ecosystems of Jorhat in India, Indian Journal of Weed Science. 2019; 51(2): 139–144,