Wild Beautiful Plants of Ornamental Potential of Palghar Taluka, Palghar District, Maharashtra State, India



Botany

KEYWORDS: : Wild Beautiful Plants, Palghar Taluka, Palghar District, Ornamental, Maharashtra.

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ABSTRACT Current study gives an account of Wild Flora observed and recorded from different localities of Palghar Taluka, Palghar District, Maharashtra State (18°42' and 20°20' North latitudes and 70°45' and 73°45' East longitude). A total of 47 species of 38 genera belonging to 21 families were found growing with promising use as ornamental plants.

1. Introduction

Human civilizations have and had made use of plants in many ways to simplify their life. The use includes fulfilling their basic needs of food, clothing and shelter which were reported in various old literatures that highlights the historic connection between plants and human beings (Datar and Vartak 1975). Man in some or the other ways relied on nature for plants. Nature was the only nurturer who took utmost care of the growing flora but due to over exploitation by mankind, many of them have become extinct and even counted as endangered (Arora 1993).

Wild ancestors of existing flowers are still found blooming in their natural habitat (Thomas et al., 2011). Flowers have always being considered as a symbol of beauty which increases the Aesthetic value when planted in garden around human residence (Bhattarcharjee, 2004). With increase in trends like landscape gardening, horticulture and floriculture, establishment of eco-friendly human habitats is emerging day by day (Reddy et al., 2012). Now day's large numbers of wild ornamental plants are used in landscape gardening as per changing taste and fashion (Ariyan et al., 2014).

Palghar Taluka is among 8 Talukas which comes under Palghar District. Palghar Taluka is also blessed with natural flora and fauna. Tribals residing in Palghar taluka make use of naturally available plants in their day to day life and also for treating various ailments from generation to generation (Tosh.1996, 2004 & 2012).

2. Materials and methods

Present investigation was carried out from Palghar Taluka, the tribal taluka of Palghar District. The geographical distribution of Palghar Taluka is 18°42' and 20°20' North latitudes and 70°45' and 73°45' East longitudes. Frequent visits to different localities of Palghar Taluka in different seasons have helped in assembling wild growing flowering species. In each and every visit, specimens were collected, they were properly identified using Flora (Cooke T, 1901-1908): (Ingalhalikar, 2001) and finally herbarium were prepared.

3. Results

The recorded plants are alphabetically arranged and given in Table 1. Graph 1. Shows species wise comparison among 21 families. Graph 2. Represent the Ornamental Utility of Recorded wild flora. Habit wise distribution of species is presented in Graph 3. Plate 1 indicates some beautiful flowers of wild origin. Altogether 47 species of 38 genera belonging to 21 families have been documented from the study area. There are 29 shrubs, 08 herbs, 06 Twiners, 02 climbers and 2 trees which unveil their potential approach as an decorative element for popular fields like landscape gardening, horticulture and floriculture.

4. Discussion

Plants can be potted in pots or either can be planted in lawns, hedges, edges, avenue etc. In some case plants inflorescence becomes the center of attraction while in some their leaves increases the overall charm of the area where it is planted hence on the basis of their unique features they can be used in various creative combinations. This can save some rare wild beautiful plants species used in traditional medicine as well as in ayurvedic medicines from extinction. This type of adaptation of wild beautiful plant species will protect our ecosystem from destruction due to introduction of different types of exotic plant species, some of which have very bad impact on our environment in many ways like ground water table depletion affecting the pattern of pollinating animals and other animals, soil erosion etc. Further research on these wild beautiful species to create better adaptable varieties can be done by planting them in different agro-climatic zones. We hope that our work will serve as a stepping stone for researchers and people who are curious in wild ornamental plants.

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Sr.	Botanical Name	Family	Habit	Phenology	Flower/ colour of	Ornamental utility			
no					Infloresence				
1	Alternanthera philoxeroides Griseb.	Amaranthaceae	Herb	Throughout the year	White	Hedge			
2	<i>Ariposis peltata</i> Nimmo ex Grah.	Araceae	Herb	June-September	Yellow	Potted in Shady Area			
3	Blepharis asperrima Nees.	Acanthaceae	Shrub	October-December	Blue and White	Hedge			
4	Barleria cristata L.	Acanthaceae	Shrub	October-Decem-ber	Violet and Blue	Hedge			
5	Barleria gibsoni L.	Acanthaceae	Shrub	September-November	Violet and Blue	Hedge			
6	Barleria prionitis L.	Acanthaceae	Shrub	October-January	Yellow	Hedge			
7	Breynia patens Rolfe.	Euphorbiaceae	Shrub	April-June	Yellow to Reddish-	Hedge			
					Green				
8	Costus speciosus Smith.	Scitaminae	Shrub	July-September	White with center	Hedge			
					portion in Red				
9	Celosia argentia L.	Amaranthaceae	Shrub	October-December	White and Pink	Hedge			
10	Cyanotis cristata Schultes F.	Commelinaceae	Shrub	August-October	Blue and Violet	Hedge			

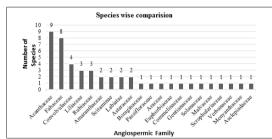
Table 1: List of Wild Beautiful Plants in Study

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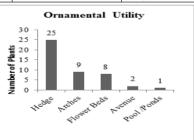
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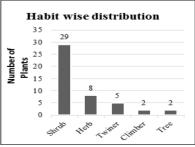
11	Canavalia lineate DC.	Fabaceae	Shrub	October-January	Blue and Violet	Arches
12	Curcuma pseudomonta Grah.	Scitamineae	Herb	July-September	Pinkish white	Seasonal Flower Beds
13	Crotalaria retusa L.	Fabaceae	Shrub	September-November	Yellow	Hedge
14	Crotalaria verrucosa L.	Fabaceae	Herb	October- November	Blue and White	Hedge
15	Chlorophytum tuberosum Baker.	Liliacea	Herb	June-July	White	Hedge
16	Datura metal L.	Solanaceae	Shrub	Throughout the year	White	Hedge
17	Desmodium triquetrum DC.	Fabaceae	Shrub	October- November	Violet and Blue	Hedge
18	Desmodium polycarpum DC.	Fabaceae	Shrub	August-October	Pink and Violet	Hedge
19	Exacum bicolor Roxb.	Gentianaceae	Shrub	August-November	White and Indigo	Hedge
20	Eranthemum roseum R.BR.	Acanthaceae	Shrub	November-January	Violet	Hedge
21	Gardenia lucida Roxb.	Rubiaceae	Tree	March-June	White	Avenue
22	Gloriosa superba L.	Liliaceae	Climber	July-October	Reddish-Yellow	Arches
23	Hibiscus hirtus L.	Malvaceae	Shrub	October-January	White-Some pinkish	Hedge
					shade	
24	Iphigenia indica A.Gray.	Liliaceae	Shrub	June-July	Pink	Hedge
25	Ipomoea nil L.	Convolvulaceae	Twiner	August-November	Indigo with White	Arches
					center	-
26	Ipomoea eriocarpa R.BR.	Convolvulaceae	Twiner	September- October	White	Arches
27	Ipomoea hederifolia L.	Convolvulaceae	Twiner	October- December	Red	Arches
28	Ipomoea obscura Ker-Gawl.	Convolvulaceae	Twiner	October- December	Yellow-White	Arches
-	Leonotis neptifolia R.BR.	Labiatae	Shrub	September-November	Orange-Yellow	Hedge
30	Limnophila gratioloides R.BR.	Scrophulariaceae	Herb	November-May	Light Blue	Near Pool/Ponds
31	<i>Lippia nodiflora</i> Michaux.	Verbenaceae	Herb	Throughout the year	White-Some shade of	Flower Beds
					Pink, Red and Yellow	
	Lepidagathis trinervis Nees.	Acanthaceae	Shrub	November-February	Pinkish White	Seasonal Flower Beds
	Lepidagathis cuspidata Nees.	Acanthaceae	Shrub	November-March	Yellow and White	Hedge
	Leucas aspera Spreng.	Labiatae	Shrub	October-December	White	Flower Beds
35	Nymphoides indica L.	Menyanthaceae	Shrub	April-September	White	Pool/Ponds
36	Oxystelma esculentum R.BR.	Asclepiadaceae	Twiner	May-December	Pink	Arches
37	Pavetta indica L.	Rubiaceae	Shrub	March-May	White	Hedge
38	Passiflora foetida L.	Passifloraceae	Climber	May-August	White-Some shade of Pink and Indigo	Arches
39	Randia dumetorum Lamk.	Rubiaceae	Tree	May-June	Yellow-White	Avenue
40	Strobilanthes callosus Nees.	Acanthaceae	Shrub	September-November	Violet	Hedge
41	Sphaeranthus indicus L.	Asteraceae	Herb	November-January	Pink	Seasonal Flower Beds
42	Smithia purpurea Hook.	Fabaceae	Shrub	September- December	Yellow	Seasonal Flower Beds
	Smithia sensitive Ait.	Fabaceae	Shrub	August- November	Yellow	Seasonal Flower Beds
44	Thunbergia fragrans Roxb.	Acanthaceae	Twiner	October- November	White	Arches
	Tricholepis amplexicaulis	Asteraceae	Shrub	November-December	White and Indigo	Seasonal Flower Beds
	C.B.Clarke.				line and margo	
46	Trichodesma indicum R.BR.	Boraginaceae	Shrub	August- November	Bluish-White	Hedge
		Fabaceae	Shrub	August- September	Blue and Pink	Hedge
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Graph 1: Species wise comparison between 21 Families.



Graph 2: Distribution of species based on Ornamental Utility.



Graph 3: Habit wise distribution of species.

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### Plate 1:Beautiful flowers of wild origin

A. Hibiscus hirtus L.

- B. Ariposis peltata Nimmo ex Grah.
- C. Gardenia lucida Roxb.
- D. Ipomoea eriocarpa R.BR
- E. Oxystelma esculentum R.BR.
- F. Nymphoides indica L.
- G. Ipomoea nil L.
- H. Lippia nodiflora Michaux.
- I. Alternanthera philoxeroides Griseb
- J. Ipomoea hederifolia L.
- K. Thunbergia fragrans Roxb.
- L. Ipomoea obscura Ker-Gawl.
- M. Chlorophytum tuberosum Baker.
- $N.Lepidagathis\, cuspidata\, Nees.$
- O. Limnophila gratioloides R.BR.
- P. Sphaeranthus indicus L.

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