Investigation of takatu flora



Mohammad Imran, Mohammad Anwar, Habibullah.

ABSTRACT: A general survey for investigation of Takatu Flora was taken at Takatu Mountain along with its periphery. The investigations were conducted in 2013-14. Mainly 52 species were collected belonging to 24 families and were identified through available literature. Though the area is having diversity in floristic composition, the collection of the plants are area specified and the list provide the plants that could be selected directly from the area if these plants are of use especially for anti-biological activity.

INTRODUCTION:

Balochistan is the largest province i. e. 44% of Pakistan land area. 94% of the area is composed of Range land (PFI) and nearly 1. 4% forests are present throughout. The Balochistan is mainly composed of mountainous area. Takatu is situated in semi-Arid zone. The precipitation is about 15 to 18 inches and uncertain precipitation is in winter and few rains in the months July and August of summer.

Quetta is a hill station and is surrounded by colossal series of mountains which infect forms the citadel of Quetta city. Takatu range is north of Quetta city and expanding fans-wise in an eastern direction toward Harnai and Ziarat valley. An outline spur of Takatu is having two twin peaks that form the highest points i. e. 11390 feet above sea level.

Floristically Balochistan is very important and the Balochistan provide a list of medicinal plants as well as the plants for forage and used as food. The Balochistan is having great diversity but need scientific exploration of these resources.

Limited literature is available regarding the biochemistry of indigenous plats available in the area. The work by 1, 2 3 4 7 8 are about the floristic composition of plants in different areas of Balochistan. The plants available in Takatu were collected as to make these plants area specified for antibiological activity and plants biochemistry.

Materials and Methods

Common plants of Takatu Mountain along with its periphery at Takatu area were collected during field visits in 2013-2014. The Plants were identified with the help of available literature. (M. Shareeque Khan & S. M. Irshad, 2005; Mufakihirah, Misbah & Shazia: 2009. IUCN: 2009). The information about the plants were collected from local inhabitants and through available literature. Plants were classified on basis of usage i. e. 1. Food/vegetable. 2. Medicinal. 3. Fodder/forage.

Discussion

The collected plants belonged to families: Rosaceae (4sp.) Lamiaceae (7sp.), Anacardiaceae (1sp.) Poaceae (2sp.), Oleaceae (1sp.), Fabaceae (5sp.), Berberidaceae (1sp.) Asteraceae (8sp.), Boraginaceae (1sp.), Convolvulaceae (3sp.), Cupressaceae (1sp.), Chenopodiaceae (1sp.), Zygophyllaceae (2sp.), Ephedraceae (2sp.) Moraceae (1sp.) Apiaceae (2sp.), Liliaceae (3sp.), Brassicaceae (1sp.), Amaryllidaceae (1sp), Solanaceae 1, Malvaceae 1, Tamaricaceae 1, Papaveraceae 1, Asclepiadaceae 1. The ethno-botanical study revealed that 16 species were used as fodder, 33 had medicinal values and 6 were used as food for the Homo-sapiens. It was observed that the area has been grazed heavily. The ground vegetational cover was also on degraded level.

K	esuit and	Observation		
S/		BOTANICAL	FAMILY	USES/MEDICINAL VALUE
1	Wild Almond	<i>Prunus eburnean (Aitch).</i>	Rosaceae	Wild almond is used as fuel wood. The f collected which is afterward utilized as some time sold in the local market.
2	Shinshobi	<i>Mentha logifolia Linn.</i>	Lamiaceae	The plant is having very good effect on digestion. Tea made from the leaves ha traditionally been used in the treatment fevers, headaches, digestive disorders a various minor ailments. The essential o leaves is antiseptic, though it is toxic in doses.
3	Shahna	Pistacia khinjuk (Stocks).	Anacardiacea e	The plant is havingAnti-Inflammatory A The Fruits locally known as " Shahne" a into powder form and then used as food are also eaten by men.
4	Bahama	Cynodon	Poaceae	A fodder for cattle. It is used in liver cor

Desult and Observation

https://assignbuster.com/investigation-of-takatu-flora/

		grass	dactylon Linn.		and also having diuretic properties.
!	5	Olive	<i>Olea europaea Linn.</i>	Oleaceae	Olive is devouring anti-inflammatory, an and anti-bacterial properties. It decreas cholesterol and blood pressure levels. It as a metabolism inducer and bile flow s
	6	Jungli Gulab	Rosa moschata Sm.	Rosaceae	Oil is extracted from the plant which is restoring natural skin tone and color.
	7	Makhi	Caragana ambigua Stocks.	Fabaceae	The plant is highly nutritious and its lear rich in minerals, such as P, K, Ca, Si, Mg and Al. Caragana is also a good honey p root, flower, shoots, bark or seed can be herbal medicine.
:	8	Zaralg	<i>Berberis lyceum Royle.</i>	Berberidacea e	The roots are aperient, carminative, feb and ophthalmic. They are used in the tr of eye complaints, menorrhagia, chronic diarrhoea and piles. The leaves have be in the treatment of jaundice. Berberine, universally present in rhizomes of Berbe species, has marked antibacterial effect
ļ	9	Chanjan	Nepeta glomerulosa	Limiaceae	The plant is used against Pneumonia ar

Page 5

Boiss.

Butai

Investigation	n of takatu flora -	Paper Example	Page 6
Chasen 10 boti	Heliotropium dasycarpum	Boraginacea e	Used as fodder for cattles
11 Zwal	Achillea santolina Linn.	Asteraceae	Achillea santolina used traditionally as antidiabetic, anti-inflammatory and to r pain or dryness of the navel and stomag
12 Tarkha	Artemisia maritima Linn.	Asteraceae	The plant is having anithelmintic, antise stimulant effects. It cause ulcer if used quantity.
13 Bachki	Convolvulus arvensis	Convolvulace ae	The plant is used as a fodder for sheep goats.
14 Ubashta	Juniperus excelsa	Cupressacea e	It is very important tree, the barriers of are used in cosmetics, medicines and u food. The green tea from its leaves is w mentioning. The wood is utilized as fuel or for constructional purposes.
15 Shorai	Haloxylon griffthii	Chenopodiac eae	It is a fodder for cattle especially in dry condition. The seeds are also used by m harsh condition.
16 Spanda	Peganum harmala Linn.	Zygophyllace ae	Peganum harmala has been used to tre and to treat skin inflammations. The roo applied to killliceand the seeds kill insec

also used as ananthelmintic.

17 Nari oman	Ephedra nebrodensis	Ephedraceae	Ephedrine is manufactured from this sp Markers Alkaloid, Quetta.
Ghat 18 oman	Ephedra intermedia	Ephedraceae	Ephedrine and Pseudo-ephedrine are ex from the plant. The extraction is used for controlling asthma.
19 Anjir	<i>Ficus carica Linn.</i>	Moraceae	Fruit is emollient, demulcent and nutriti recent studies suggest that theanti- inflammatoryandantioxidant activity of carica latex is due to the presence ofste andflavonoids
Wild 20 cherry	<i>Prunus serotina Ehrh.</i>	Rosaceae	The roots and the bark of Wild Cherry a blood tonic and appetite stimulant. Wild is mostly noted for its use in respiratory problems. It has a soothing and sedativ on the nervous system. In digestive disc use is very noticeable. It helps the flow gastric juices.
21 Khumbi	Sophora mollis Var.	Fabaceae	The juice of plant is good for sore eye. Decoction of root is applied warm to the remove headache.

Tor 22 sag/kala Zeera	Traychysperm um ammi Linn.	Apiaceae	<i>Trachyspermum ammi</i> is traditionally be to be adigestiveaid.
23 Shezgi	Eremurus persicus Boiss.	Liliaceae	
24 Sehj	Eremurus stenophyllus Boiss.	Liliaceae	Leaves cooked and eaten as a vegetabl
25 Gajar	Artemisia scoparia Waldst & Kitam.	Asteraceae	The plant can be utilized for the cure of the ear. It is also a fodder for livestock.
26 Sounf	Foeniculum vulgare Mill.	Apiaceae	Fruit is used as a cure for stomachache
Yellow star-thistle 27	<i>Centaurea</i> solstitialis	Asteraceae	The powdered seed is used as a remedy stone. The powdered root is said to be a fistula and gravel. The plant is eaten as vegetable
28 Kanday	Alhagi maurorum	Fabaceae	Alhagi maurorum is used as asweetened utilized in treatment forailments related thebile ducts, nasal-polyps, diaphoretic, diureticandantiseptic. It is also used as

for camels and goat.

29	Peshai	Crambe cordifolia	Brassicaceae	Plant is used as a cure for itch and also vegetable.
30		Aegopordon berardioides Boiss.	Asteraceae	
31	Gangu	Hertia intermedia Boiss.	Asteraceae	Plant is used for the treatment of boils,
32	Choranski Gul	<i>Ixiolorion montanum Herb.</i>	Amaryllidace ae	Root and flowers of the plant is eaten.
33	Angoortho ra	Solanum nigrum	Solanaceae	The ripe fruit is eaten. The plant is used strongsudorific, analgesicandsedativew powerfulnarcoticproperties. Infusions ar indysentery, stomachcomplaints and fev
34		<i>Lactuca serriola Linn.</i>	Asteraceae	TheAncient Greeksalso believed its pun juice to be a remedy againsteye ulcers. plant causes urination and relaxed sexu desire.
35		Carthamus oxyacantha M.	Asteraceae	The plant is having cholesterol lowering

https://assignbuster.com/investigation-of-takatu-flora/

Bieb.

36 Ritachk	<i>Convolvulus spinosus Burm. f.</i>	Convolvulace ae	Flowers are eaten. The plant serves as f for livestock.
37 ———	Astragalus armatus Willd.	FABACEAE	it is used as tonic, stimulant and in case anemia
38 ———-	<i>Marrubium vulgare</i>	Lamiaceae	folk medicineto aid digestion, soothe so throats, and relieve inflammation
39 Yirk	Perovskia abrotanoides karel.	Lamiaceae	is used as fortifier, antiseptic and anti- inflammatory in treating dermal disease used as a cooling medicine.
40 Pachko	Malva neglecta Wallr.	Malvaceae	A drug used for cooling and also utilized fodder for cattle. A tea can be made fro dried leaves. The root is used as a tooth
41 Surai	Rosa lacerans	Rosaceae	
42 Sursanda	<i>Hymemocrater sessilifolius Benth.</i>	Lamiaceae	Soaked the leaves in water overnight an afterward it is used as morning drink

43 (Ghaz	Tamarix ramosissima Ledeb.	Tamaricacea e	Used as Forage for camels.
44 	Shin Moray	Thymus vulgaris	Lamiaceae	Its essential oils are having medicinal va having antiseptic and antioxidant proper is used in treating respiratory diseases variety of other diseases such as dry co whooping cough, asthma, laryngitis, gas and diarrhea
45	Lach Gul	Papaver rhoeas Linn	Papaveracea e	The flowers of corn poppy have a long h medicinal usage, especially for ailments elderly and children. Chiefly employed a pain reliever and as a treatment for irrit coughs, it also helps to reduce nervous activity, coughs and poor digestion. The and seeds are tonic.
46 I	Khatol	tulipa Iehmanniana	Liliaceae	The bulbs are used as food and the leav the plant are used as fodder for cattle.
47	spalmen	<i>Calotropis procera</i>	Asclepiadace ae	Warm leaves along with oil are applied wounds for its cure. Powdered flowers – colds, coughs, asthma and indigestion. of paste applied to elephantiasis a disea

the skin and subcutaneous tissues..

	Phlomis		
48 Kundulay	spectabilis Falc.	Lamiaceae	
49 Jandar	Avena fatua	Poaceae	Seeds believed as poisonous, used as e (relieves irritation of skin and soften the refrigerant (relieves feverishness, produ feeling of coolness) and diuretic (increa amount of urine) and basically it is used cattle as a food.
50 Khorbar	Tribulus terrestris	Zygophyllace ae	It is used as cattle feed. It is powerful m plant for muscles building and protection cardiovascular protection.
51 Shenallo	Astragalus stocksii	Fabaceae	Plant is used as a fodder for donkeys, ca goats and sheep.
52 Bachki	Convolvulus arvensis Linn.	Convolvulace ae.	Plant is used as fodder for sheep and go

References

 Panah. M, Yousuf. M, Afzal M. and Abdullah B. (2013). Plants Treasures, Traditional Knowdege and Baloch Society. Balochistan Study Centre, University of Balochistan, Quetta. Bi-annual Research Journal, " Balochistan Review", vol-28, No. 1. ISBN: 1810-2174,

- Rasool Bakhsh Tareen, M. I. Zaidi, M. A. K. Malghani, Q. A. Ali and M. Asif Enthnobotanical studies of medicinal and aromatic plants of Juniper forest, District Zairat, Balochistan. Res. J. U. O. B., 1(2) 17(2002).
- 3. Ghazala Shaheen 2005. Seasonal variation in nutritional and antinutritional components of native shrubs and trees grown in Hazargangi Chiltan National Park, Karkhasa and Zarghoon PhD Thesis. Department of Botany, University of Balochistan Quetta.
- 4. R. Rarei and H. Mohammadi (2012). The evaluation of medicinal properties of Perovskia abrotanoides Karel Maya Beikmohammadi.
 Middle-east Journal of Scientific Research 11 (2): 189-193.
- 5. Badshah, I., F. Husssain and Z. Mohammad. 1996. Floristic and Ethnobotanical studies on some plants of Pirghar Hills, S. Wizaristan, Pakistan. Pak. j. pl. sci., 2: 167-177
- A Khalfallah, A Karioti, D Berrehal, A Kabouche, M Lucci, Z Kabouche and A Bilia 2011. Flavonoid Triglycosides from Astragalus Armatus.
 Planta Med Thieme, J. 77 – pg47
- Shinwari, Z. K. and M. Shah. 1996. The Ethnobotany of Kharan District, Balochistan, proceeding first training workshop Ethno. Appl. Conserv. 124-132. HARC, Islamabad.
- Shah, S. R. U., G. Hussan, A. Rehman and I. Ahmed. 2006.
 Ethnobotanical studies of flora of District Musakhel and Barkhan in Balochistan, Pakistan. Pak. J. Weed Sci. Res., 12: 199-211.
- 9. Ahmad, S. S. A. Wahid. E. Bukhsh, S. Ahmad and S. R. Kakar " Antihyperlidemic Properties of Carthamus Oxyacantha" (2009) Pakistan Journal of Science Vol: 61(2) pp: 116-121 (journal)

 Farrukh Hussain, S. Mukaram Shah and Hasan Sher. (2007).
 Traditional Resource Evaluation of some plants of Mastuj, District Chitral, Pakistan. Pak. J. Bot., 39(2): pp: 339-354,