Research Article

Profile of the Medicinal and Economic Plants of Laspur Valley Chitral, Pakistan

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ABSTRACT

The inhabitants of Laspur valley of Chitral have always been used plant resources for medicine, human and other animals food, vegetable, housing, timber, condiment, facial mask, fuel, ornamental and other multi purposes, from many year ago. A total of 212 species belonging to 55 families including 2 gymnosperms families (4 species), 5 monocots families (24 species) as well as 48 dicots families (184 species) have been recorded from the research area during 2013-2014. Family Asteraceae contributed the greatest number of species (30), after that Fabaceae (20 species), Poaceae (15 species), Brassicaceae (14 species), Rosaceae (12 species), Apiaceae (9 species), Solanaceae, Ranunculaceae and Salicaceae (each with 7 species), Lamiaceae (6 species), Polygonaceae (5 species), Amaranthaceae and Malvaceae (each with 4 species) and Cupressaceae, Boraginaceae, Caryophyllaceae, Chenopodiaceae, Cucarbitaceae, Grossulariaceae, Cyperaceae and Alliaceae (each with 3 species). All the other families are represented by less than 3 species. Ethnobotanically 155 plants were used as fodder including gymnosperms with one species and angiosperms with 154 species (135 dicots and 19 monocots), medicinal 100 species including 2 species of gymnosperms and 98 species of angiosperms (89 dicots and 9 monocots), fire wood 47 species including 4 gymnosperms and 43 angiosperms, vegetables 36 species of angiosperms, ornamental 31 species among which gymnosperms have one species and 30 species in an angiosperms (27 dicots and 3 monocots), timber 17 species including one species of gymnosperms and 16 species of angiosperms, fruit 10 species of angiosperms, facial mask/facial cream 10 species (9 angiosperms and 1 gymnosperm). Habit wise 157 plant species are recorded as herbs, 32 species as shrubs while 23 species trees. Totally 85 plants are cultivable and 127 plants are wild. During collection most of the plants are uprooted due to unawareness among communities. So there is a crucial need of conservation and protection of flora.

Keywords: Medicinal; Economic; Laspur valley; Fodder, Medicinal; Wood



INTRODUCTION

Generally, animals feed on the grass species and various dicot plants. Inhabitants of mountainous areas of Pakistan use plants for multi purposes, e.g. medicines, shelter, fuel, food and fodder for animals etc. [1]. People rely on different medicinal plants for treatment of diseases in different areas of pakistan as well as outer world [2-6]. With the arrival of human civilization, numerous systems of therapy have been established mainly on the basis of plants. Our traditional systems of medicines like Ayurveda, Homeopathy, Sidda, Unani, etc., continue to deliver

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the primary health care to greater than three-quarters of population of the world (Table 1).

Table 1: Traditional uses of gymnosperm plants.

Name of Families	Medicinal uses	Fodder	Fruit	Ornamental Facial mask		Firewood	Timber
Cupressaceae	1 species			1 species		3 species	1 species
Ephedraceae	1	1		,	1	1	,
Total	2	1		1	1	4	1

Treatment of diseases through medicinal plants dates back to 5000 years in India [7]. Utilization of natural plants medicines by conventional methods gives potential indicators for biological actions [8]. Much of the species were found in Mallam Jabba are used for versatile [9]. The folks of district Swat collect medicinal plants during different seasons and sell them in the native market to make some money [10]. Juniperus excelsa is one of the best timber woods of Mastuj [11]. Previous record about uses of medicinal plants explored that poor folks of Hattar of District Haripur favor folk medicine just because of low rate, occasionally it is a part of their cultural values [12]. The folks of Central Punjab depend relies on plants for several regular necessities [13]. About 20,000 medicinal plants are used throughout the world [14]. Acacia nilotica contains volatile oils, phenolic glycosides, alkaloids, gums, oleosins, steroids, tannins and terpenes [15]. In Azad Kashmir plants has diverse habitat [16]. Above the 60 years old people of Kashmir have valuable

information about the use of the indigenous medicinal vegetations, which should be conserved through conduct of surveys [17]. The quinine is obtained from the bark of Cinchona tree found in Southern America is used to cure malaria [18]. The plants have been used to keep homes warm in winter seasons (Figures 1-5). It can also used to make musical instruments to pass spare time [19]. Women of rural areas still use wild barriers, flowers and stem decoctions as valuable facial masks to keep their face, hand and feet protected against microbes, infections, ultraviolet light and cold [20-22]. International organization (WHO) has revealed that about 75%-90% of the rural inhabitants of the world and local herbalists are attending medicinal problems. Hamirpur district is also well known region of the west Himalaya which is surrounded by thick forest having rich floral diversity [23,24]. Juglans regia plant is used for multi purposes such as timber wood, fire wood and dyeing agent etc. [25] (Table 2).

Table 2: Traditional uses of monocot plants.

Families	Medicinal use	Fodder	Ornamental	Timber	Condiment	Firewood	Thatching
Alliaceae	2 species		1 species	•	2 species	,	•
Суретасеае	-	3	,	-	-	,	,
Iridaceae	1	1	1			,	-
Poaceae	6	15		-	-		1
Xanthorrhoeaceae			1	-	-		-
Total	9	19	3	0	2	0	1

In 75 species collected from Booni Chitral, which are use for multipurpose [26]. 50 plant species of 29 families were recognized which are being used by local residents of District Gujrat, Pakistan [27]. Survey studies were conducted in North Waziristan which recorded about 88 medicinal and aromatic

plants belonging to 53 families [28]. Totally 50 plant species were documented from Margalla Hills National Park, Islamabad [29-32]. Totally 29 plants having 20 families were described from Mirpur, AJK [32-34] (Tables 3-8).

Table 3: Total amount of cultivable and wild plants.

S. No	Plants	Gymnosperm	Monocot	Dicot	Total
1	Cultivable plants	1	11	73	85

2	Wild plants	3	13	111	127
Total					212

 Table 4: Percentage of gymnosperm and angiosperm.

Plants	Amount	Percentage
Gymnosperms	4	1.88%
Monocots	24	11.32%
Dicots	184	86.79%
Total	212	

Table 5: Plants used for multipurpose.

Uses	Monocot	Dicot	Gymnosperms	Total
Medicinal uses	9	89	2	100
Fodder	19	135	1	155
Firewood	,	43	4	47
Ornamental	3	27	1	31
Timber		16	1	17
Fruits		10	•	10

Table 6: Total amount of herbs, shrubs and trees.

Plants	Dicot	Monocot	Gymnosperm	Total	%age
Herbs	133	24	0	157	74.05%
Shrubs	30	0	2	32	15.04%
Trees	21	0	2	23	10.84%
Total				212	

Table 7: Traditional uses of dicot plants.

Families	Medicinal uses	Fodder	Fire wood	Ornamental	Timber	Fruit	Facia mask	Vegetable
Amaranthaceae	2	3						2
Аріасеае	8	4						1
Asteraceae	9	17	5	9				4
Berberidaceae	1	1	1					
Betulaceae	1	1	1		1			

Boraginaceae	1	3						
Brassicaceae	5	11					1	7
Campanulaceae		1						
Canabinaceae	1	1						1
Caryophyllaceae	2	3					1	1
Capparidaceae	1	1					1	
Cuscutaceae		2						
Chenopodiaceae	1	3						1
Convolvulaceae	1	1		1				1
Crassulaceae				2				
Cucarbitaceae	3	3						3
Eleagnaceae	2	2	2	1	1		1	
Euphorbiaceae	1	1					1	
Fabaceae	5	19	3	1				6
Fumaricaceae		1						
Geraniaceae		1		1				
Grossulariaceae		2	2	1				
Juglandaceae	1	1	1		1			
Lamiaceae	5	3						1
Linaceae	1							
Lythraceae	1							
Malvaceae	4	2		2				3
Mimosaceae		1	1		1			
Moraceae	2	2	2		2	2		
Onagraceae		1						
Orobanchaceae		2						
Oleaceae	1	1	1	1	1			
Polygonaceae	3	5	1					2
Papavaraceae	1			1				
Plumbaginaceae		1	2					
Plantaginaceae	1	2						

Primulaceae	1	1		2				
Ranunculaceae	3	4	1	1				
Rosaceae	8	10	9	2	3	7	1	
Salicaceae	1	7	7		5			
Saxifragaceae	1	1					1	
Scrophulariaceae	1	1		1				
Simaroubaceae	1	1	1		1			
Solanaceae	5	5					1	3
Thymaleaceae	1	1	1				1	
Tamaricaceae	1	1	1					
Violaceae	1			1				
Vitaceae	1	1	1			1		
Total	89	135	43	27	16	10	9	36

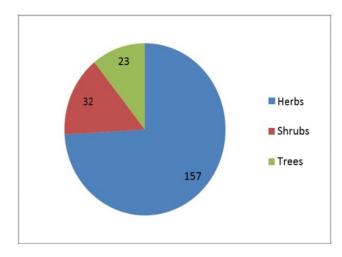


Figure 1: Number of Herbs, Shrubs and Trees.

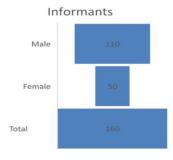


Figure 2: Showing total informants.



Figure 3: Showing the percentage sharing of species of monocot families.

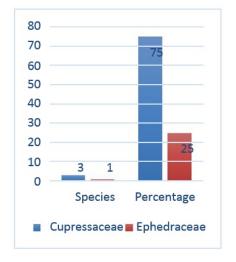


Figure 4: Showing Gymnosperm Families.

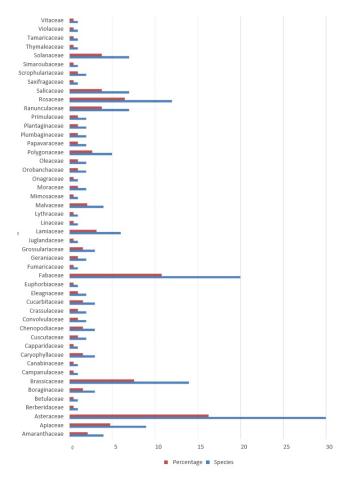


Figure 5: Showing the percentage sharing of species of Dicot families.

MATERIAL AND METHODS

Introduction to the study area

Laspur valley is one of the beautiful valleys of Chitral. The boundaries of Laspur are attached with Gilgit in north; Mastuj in south and highly snowy mountains divide it from Swat in west. Laspur valley is divided in to six main villages namely Balim, Sor-Laspur, Harchin, Broke, Raman and Gasht. These villages are adjacent to each other and form the valley of Laspur. It is located at a distance of 125 km from Chitral. It has a population approximately 10,000 people distributed in 1500 houses. The literacy rate has risen to a good rate. There are 5 colleges, 18 private and 16 government middle and high schools in Laspur valley. The elevation of Laspur valley is 8000 feet. Temperature hardly exceeds the limit of 30°C and Minimum temperature is -15°C. Shandur, the highest polo ground of the world, is only 6 km away. Shandur is the meadow of Laspur. It is a flat piece of land which is situated at 12230 ft above the sea level. Polo the game of kings and the king of the games is the famous game of Chitral played here since 18th century. The people have a long tradition of sweet and popular music in their native language called khowar. Khowar has been much influenced by persain, its tone and pitch are sweet and gentle and its grammar has no masculine and feminine division. Khowar music has many instruments among them sitar is a stringed instrument while there are drumming instrument called

dol, damama and daf. Belu and surnai are also musical instruments. The local people usually like food made up of milk, meat and grains. The bread which is a usual part of a Chitrali (Laspur) meal is unique one called Khesta Shapik. The local food has a number of Desi items some prepared in daily routine and other on special occasions. Laspur is geographically an isolated area with harsh weather conditions; winters are extremely cold. These conditions require warm and appropriate clothes and foot wear. In the past the people of Laspur made their clothes from wool. From wool cloaks, caps, socks, waist coats, blankets, gloves, scarfs and carpets etc., are made. However the fashion of these handicrafts has changed e.g., now these wears are fashionable and lighter while the modern cloak is made shorter, designed beautifully and lighter as compared to previous one.

Data collection and preservation

Sampling process was selected for this study so those people were chosen who have deep understanding of effect and influence of medicinal and economic plants. Different methodologies were followed with respect to collection of plant material, identification, shade drying and preservation of plant specimens. Plants were organized alphabetically by family name, local name and ethnobotanical uses. During the survey interviews were carried out using questionnaire from seniors, elders, shepherds, practitioners, formers, teachers including both males as well as females to collect ethnobotanical knowledge. Among 160 informants, 50 were female and 110 were male. For this study different strategies of data collection were selected. For online data collection, ISI web of science, Pubmed and google scholar etc., are used. During field survey, questionnaire method of data collection was adopted in order to get more elaborate and descriptive data. Semi structure interviews were conducted with key informants. These interviews were about the local names, local uses, distribution, flowering time, wild/cultivated, habit, climate, temperature, medicinal usefulness, plant parts used, locality, economical value and other uses. The specimens were collected at different localities and different habitats. Interviews were conducted with the prepared set of questions. During survey fields, gardens and hills were visited and plants were observed and collected. Pictures of plants were taken through a digital camera, during vegetative, flowering and fruiting seasons. After plant collection, the plant specimen were cleaned, hard-pressed, dried, preserved, mounted on herbarium sheets. The determined specimens were submitted to the Department of Botany SBBU Sub-Campus Chitral after the completion of research work. The data collected was analyzed, classified and tabulated to be presented in a scientific, regular and in a way easy to understand.

RESULT

A total of 212 plants belonging to 55 families were explored from Laspur valley, which are used as ethnobotanically and ethnomedicinally by local inhabitants. There are 4 gymnosperms, 208 angiosperms (24 monocots and 184 dicots) plant species. Habit wise 157 plant species are herbs, 32 species are shrubs while 23 species are trees. Among Gymnosperms 2 species are shrubs and 2 species are trees while no herbs found

in gymnosperms. In monocot of angiosperm all the 24 species are herbs. Among dicots of angiosperm 134 plant species are herbs, 29 are shrubs and 21 are trees. Asteraceae is reported to be largest family having maximum number of species (30) followed by Fabaceae (20 species), Poaceae (15 species), Brassicaceae (14 species), Rosaceae (12 species), Apiaceae (9 species), Solanaceae, Ranunculaceae and Salicaceae (each with 7 species), Lamiaceae (6 species), Polygonaceae (5 species), Amaranthaceae and Malvaceae (each with 4 species) and Cupressaceae, Boraginaceae, Caryophyllaceae, Chenopodiaceae, Cucarbitaceae, Grossulariaceae, Cyperaceae and Alliaceae (each with 3 species). All the other families are represented by less than 3 species. These plants are used for many purposes as Medicine, fodder, vegetable, firewood, fruit, condiment, fencing, timber, ornamental, thatching purpose, facial mask agricultural tools etc. Based on utility 155 plants were used as fodder including gymnosperms with one species angiosperms with 154 species (135 dicots and 19 monocots), medicinal 100 species including 2 species of gymnosperms and 98 species of angiosperms (89 dicots and 9 monocots), fire wood 47 species including 4 gymnosperms and 43 angiosperms species, vegetables 36 species of angiosperms, ornamental 31 species including 1 species of gymnosperm and 30 species of angiosperms (27 dicots and 3 monocots), timber 17 species including 1 species of gymnosperm and 16 species of angiosperms, fruit 10 species of angiosperm, facial mask/facial cream 10 species (9 angiosperms and 1 gymnosperm). Some other uses include condiments, thatching purposes, agricultural tools, shampoos, baskets and washing materials etc. Among these collected plants, 85 species are cultivable (1 gymnosperm, 11 monocots and 73 dicots) and 127 are wild (3 gymnosperms, 13 monocots and 111 dicots). All plant species collected are alphabetically arranged on the basis of taxonomic groups i.e., Gymnosperms, Angiosperms (Monocots and Dicots) are arranged with their botanical names, local names, part used, occurrence and local practices. During investigation it is noticed that many species such as Juniperus excelsa, ferula narthex, Heracleum maximum, Betula utilis, Vicia faba, Ribes grossularia, Fraxinus excelsior and Bergenia stracheyi etc. are extensively exploited by the local people for various ethnobotanical uses. The current study specified that all plants have medicinal and economic importance but there is a necessary to explore their important properties and develop awareness among the local community.

DISCUSSION AND CONCLUSION

Ethnobotanical study of Laspur valley, Chitral, KPK, Pakistan showed that there is diversity of plant species, in spite of its

harsh environmental condition, short life cycle and higher elevation. During field visit 212 plant species have been documented belonging to 55 families, consisting of 48 dicot families (184 species), 5 monocot families (24 species) and 2 gymnosperm families (4 species). The 2 families of gymnosperm are Ephedraceae and Cupressaceae. Monocot families are Poaceae, Alliaceae, Iridaceae, Cyperaceae Xanthorrhoeaceae. Among monocots the largest species containing family is Poaceae (15 species), after that Cyperaceae as well as Alliaceae (each having 3 species), Iridaceae (2 species) and Xanthorrhoeaceae (1 species). Among dicot the largest species containing family is Asteraceae (30 species), followed by Fabaceae (20 with species), Brassicaceae (with 14 species), Rosaceae (12 species), Apiaceae (9 species), Solanaceae, Ranunculaceae and Salicaceae (each with 7 species), Lamiaceae (6 species) and other families have less than 5 species. Totally 100 species are used as medicine, 155 species as fodder, 10 species as fruits, 47 species as firewood, 36 species as vegetable, 10 species as facial mask, 31 species as ornamental, and 17 as timber wood. Some species are used as broom, condiment, hair shampoo, soap and agricultural tools etc. Habit wise 157 plant species are herbs (24 monocots and 133 dicots), 32 species are shrubs (2 gymnosperms and 30 dicots) while 23 species are trees (2 gymnosperms and 21 dicots). Majority of these plants are wild. The current survey was conducted to assess and explore the traditionally vital plants of Laspur valley of Chitral with general information and their folk uses. The indigenous knowledge of plants are in danger of disappearing forever due to lack of interest among new generations. Replanting is impressive to conserve habitat [30]. Indigenous practices and information's about plants are going to be vanish just because of deficiency of printed papers and low-income cultures [31,32]. To conserve these medicinal and economically important plants, there is a great demand of conservation, management, supervision, protection plant resources and conduction of field research is impressive. Deforestation and overgrazing has declined the habitat [33]. Consumption and harvesting of plant species can often result in their genetic depletion [34]. The residents of Chitral still rely on therapeutic floras for majority of their illnesses; therefore there is a risk of plant extinction [15]. Most of the people are unaware about appropriate procedures and period of collection of live plants; due to which loss of plants occur [18]. There is miss management in grazing land. Therefore, it is very important to document and preserve this wealth of knowledge for future generations. Secondly the people have no awareness about importance of medicinal plants. Therefore, it is necessary to let the resident's know the wise use of medicinal and economically important plants.

Table 8: Ethnobotanical profile of medicinal and economic plants of Laspur Valley.

S.N o.	Botanical name	Family	Local name	Habit	Habitat	Part used	Herbal recipe medicinal uses	and Other uses
1	Juniperus communis L.	Cupressaceae	Olin sawrooz	Shrub	Alpine region	Whole plant		Only used as Firewood.

2	Juniperus excelsa M. Bieb	Cupressaceae	Sawrooz	Tree	Hills	Whole plant		Aqueous extract from leaves and corns are anthelmintic.	Timber wood and fire wood.
3	Cupressus sumpervirens L.	Cupressaceae	Sadabahar	Tree	Garden	Whole plant		***************************************	Ornamental plant.
4	Ephedra gerardiana Wallich ex C. A. Meyer	Ephedraceae	Sumani	Shrub	Hills	Whole plant			Woody part is used as fire wood while leaves are served as fodder for animals.
5	Allium cepa L.	Alliaceae	Threshtu	Herb	Field	Bulb leaves	&	like secretion is obtained which is use for cough	As a foodstuff they are usually served as a part of a prepared dish, but can also be eaten raw or used to make salad, condiment and pickles or chutneys.
6	Allium neapolitanum Cirillo	Alliaceae	White garlic	Herb	Garden	Leaves flowers	&		Ornamental plant.
7	Allium sativum L.	Alliaceae	Wrezhnu	Herb	Field	Bulb			
8	Carex divulsa Stokes	Cyperaceae	Narigass	Herb	Plain areas	Whole plant			Fodder.
9	Cyperus esculentus L.	Cyperaceae	Narigass	Herb	Plain areas	Whole plant			Fodder.
10	Carex shortiana Dewey & Torr.	Cyperaceae	Narigass	Herb	Plain areas	Whole plant			Fodder.
11	Iris ensata Thunb.	Iridaceae	Karyzma	Herb	Near field	Leaves			Fodder.
12	Iris germanica L.	Iridaceae	Sosun	Herb	Garden	Whole plant		The shoots are dried turned into a politice and placed on the inflamed parts of the body.	
13	Aristida cyanantha Steud.	Poaceae	Ishpur	Herb	Hills	Whole plant			Whole plant serves as cattle fodder both in fresh and dried condition.
14	Avena fatua L.	Poaceae	Shashar	Herb	Wheat field	Whole plant			This weed is a common unwanted invader of wheat fields, if allowed to grow and mature it may cause largely reduce wheat crop. Leaves

									serve as fresh fodder for animals.
15	Cynodon dactylon L.	Poaceae	Triangular grasses	Herb	Fertile areas	Whole plant		Bare footed walk on the lawns of this plant early morning is recommended for people with burning sensation on their feet.	
16	Deschampisa caespitosa (L.) P. Beauv.	Poaceae	Gass	Herb	Plain areas	Whole plant			Fodder.
17	Hordeum distichon L.	Poaceae	Ishpersiri	Herb	Field	Whole plant		and used to make bread which is efficient for	Hay is mixed with clay plaster as an anti-cracking agent. Stem and leaves are consumed as cattle fodder.
18	Hordeum murinum L.	Poaceae	Meadow barley	Herb	Fertile area	Whole plant		••••••	Fodder
19	Hordeum vulgare L.	Poaceae	Siri	Herb	Field	Whole plant		making also recommended	Its leaves are served as fodder for animals. Hay is mixed with clay plaster as an antic racking agent.
20	Panicum miliaceum L.	Poaceae	Olin	Herb	Field	Whole plant		Its flour is efficient stomach ache.	Leaves are used for animals while seeds are eaten by hens and birds.
21	Phragmites karka (Retz.) Trin. ex Steud.	Poaceae	Shoal	Herb	Field	Leaves stem	&	~~~~~	Generally used for thatching purpose, fodder for animals, making baskets and Writing pen for school children.
22	Pennisetum typhoideum (Burm. f.) Stapf	Poaceae	Grass	Herb	Field	Whole plant		_	Straw is used as fodder for cattle while seeds serve as fodder for hens.
23	Saccharum spontaenum L.	Poaceae	Shol	Herb	Lower pasture	Leaves stem	&		The edges of mature leaves are quite sharp and they can cut fingers when harvest them. They are also served as fodder for cattle.
24	Setaria viridis L.	Poaceae	Grassec	Herb	Field	Whole plant			Fodder
25	Secale cereal L.	Poaceae	Lachgand m	Herb	Field	Whole plant			Fodder
26	Triticum aestivum L.	Poaceae	Gom	Herb	Field	Whole plant		known as bread wheat. These crops provide food for human so it is a source of	The dried stem and leaves serves as cattle fodder. It produces the main bulk of straw. There are four varieties of wheat in the study area which are locally named as Tuh gom, Safidek, Zhakht gom and Bakhtawar gom.

27	Zeamays L.	Poaceae	Juwari	Herb	Field	Whole plant		or made flour which is used	It is a main ingradiant of human food. Stems and leaves are used as fresh and dry fodder for cattles
28	Hemerocallis fulva L.	Xanthorrhoea ceae	Juwari gamburi	Herb	Garden	Flowers			Ornamentally used.
29	Amaranthus cruentus L.	Amaranthacea e	Kruishakh u	Herb	Maize field	Leaves stem	&	Young leaves are used as vegetable which are laxative.	Fodder
30	Aerva lanata (L.) Juss. ex Schult.	Amaranthacea e	Knotgrass	Herb	Fertile land	Whole plant			The plant provides grazing field for chickens and other livestock.
31	Amaranthus retroflexus L.	Amaranthacea e	Ganari	Herb	Field	Leaves			Fodder
32	Beta vulgaris L.	Amaranthacea e	Lablabu	Herb	Field	Corm leaves	and	Sugar beet is cultivated as vegetable which is said to be increase blood level.	Leaves are used as fodder for cattle.
33	Carum carvi L.	Apiaceae	Нојој	Herb	Field	Seeds		Seeds are boiled; herbal tea is made and is used in nausea and stomachache.	
34	Carum copticum L.	Apiaceae	Shunjmuk	Herb	Field	Seeds flowers	&	The flowers, seeds and leaves of this plant are boiled in milk containing a small amount of salt. The mixture is used againt bronchitis, cough, throat infections and diarrhea.	
35	Cuminum cyminum L.	Apiaceae	Safed zira	Herb	Field	Seeds leaves	&	Seeds and leaves of this flavouring plant are mixed with meal to increase appetite and improve taste.	Used as condiment
36	Coriandrum sativum L.	Apiaceae	Danu	Herb	Field	Leaves fruits	&		Aromatic in nature therefore used as condiment.
37	Daucus carota L.	Apiaceae	Kheshgum	Herb	Field	Whole plant		in the Improvement of eyesight and blood increased	Carrot root is edible and is used as salad. Gajar's halwa can be made from the plant roots. Leaves are served as a fodder for cattle.
38	Ferula narthex L.	Apiaceae	Rauw	Herb	Hills	Whole plant		Young stems are cut resulting in oozing out of milky exudate. It which is locally called Hing and used as stomachache and against diabetes and tootache.	Leaves are used as fodder for animals.

39	Foiniculum vulgare Mill.	Apiaceae	Bodioung	Herb	Field	Seeds leaves	&	Seeds and fresh leaves are chewed for cough, abdominal pain and pneumonia	Used as spice and condiment.
40	Heracleum maximum Bartram	Apiaceae	Phorol	Herb	Fertile area	Whole plant		Khaf, are placed in burnt	It is mostly used as fodder for cattle especially in dry condition to thicken the milk of cattle. In addition, floral escape is edible. It is also used to make flutes for children.
41	Prongus ferulacea L.	Apiaceae	Ribbed Cachrys	Herb	Upper pasture	Leaves& fruits			Fodder
42	Artemisia biennis Willd.	Asteraceae	Busith	Herb	Every where	Leaves& stem			Fodder
43	Artemisia bigelovii A. Gray	Asteraceae	Thaspuk	Shrub	Hills & sandy area	Whole plant			It is used fodder, firewood and also used for soil erosion control.
44	Artemisia ludoviciana Nutt.	Asteraceae	Shothing	Shrub	sandy area	Whole plant			Firewood
45	Artemisia dracunculus L.	Asteraceae	Maxhini	Herb	Field	Shoot leaves	&	Plant body is used as broom for sweeping lawns.	Fodder
46	Aster amellus L.	Asteraceae	Aster	Herb	Garden	Whole plant			Ornamental plant
47	Artemisia maritima L.	Asteraceae	Dron	Shrub	sandy area	Whole plant			Branches are used as broom while leaves are used as fodder for animals.
48	Artimesia absinthium L.	Asteraceae	Kharkhalic h	Herb	Arid ground	Seeds		One teaspoonfull of seeds (powdered) are taken with sufficient water for curing diabetes, abdominal pain and high B.P.	
49	Artemisia rutifolia Stephan.ex Spreng.	Asteraceae	Zom thasphuk	Shrub	Hills	Whole plant			Firewood and fresh fodder for animals.
50	Artemisia scoparia Waldst. & Kit.	Asteraceae	Zha	Herb	scare watery area	Shoots			Plant body is also serves as fodder for cattle and making broom.
51	Carthamus tinctorius L.	Asteraceae	Poam	Shrub	Field	Dried floret a seeds	und	The orange/reddish florets are collected, dried, powdered and mixed with milk to cure itching of body rashes. Herbal tea made from seeds cures cough and tonsillitis.	

52	Chicorium intybus L.	Asteraceae	Khasti	Herb	Fertile area	Roots & leaves	The root of this plant is dugout, washed, Chopped and boiled with water. These aqueous extract is useful for cardiac. Problem, malaria, vomiting and typhoid.	It is used as vegetable. It also serves as fodder for cattles.
53	Chrysanthemu m segetum L.	Asteraceae	Shadongi	Herb	Field	Flowers amd leaves		Inflorescence and leaves are collected, crushed, boiled condiment to increase flavour and taste of vegetable.
54	Cirsium arvense L.	Asteraceae	Chamchiri k	Spiny shrub	Every where	Leaves		Fodder.
55	Circium vulgare (Savi) Ten.	Asteraceae	Blansirik	Spiny shrub	Every where	Leaves	The weed after hervest losses turgidity. It is used as both fresh and winter fodder to thicken the milk of animals.	Fodder.
56	Cosmos bipinnatus Cav.	Asteraceae	Jangali gamburi	Herb	Fertile area	Whole plant		The flowers of this ornamental plant attract honey bees, birds, butterflies and other insects.
57	Conyza bonariensis (L.) Cronquist.	Asteraceae	Horse weed	Herb	Every where	Whole plant		Fodder.
58	Calendula officinalis L.	Asteraceae	Bodoki	Herb	Field	Leaves and flowers		Florets and leaves of this ornamental plant are used as condiment and vegetable.
59	Centaurea cyanus L.	Asteraceae	Blue bottle	Herb	Garden	Whole plant		Ornamental plant.
60	Erigeron asper Nutt	Asteraceae	Rough fleabane	Herb	Garden	Whole plant		Ornamental plant.
61	Echinops echinatus Roxb.	Asteraceae	Ishperuzoa kh	Spiny shrub	Exposed area	Whole plant		Fodder and firewood.
62	Helianthus annus L. Echinops echinatus Rox	Asteraceae	Yorghereya k	Herb	Field	Whole plant		Leaves are used as fodder for animals while seeds are eaten by hens. It has also an ornamental value.
63	Inula rhizocephala Schrenk	Asteraceae	Herb	Herb	grassy area	Leaves		Fodder.
64	Lactuca sativa L.	Asteraceae	Kileem	Herb	Field	Leaves	Leaves are served as vegetable which are act as appetizer and cooling agent.	Salad.
65	Matricaria camomilla L.	Asteraceae	Shirisht	Herb	Exposed area	Flowers	The floral axes are collected and dried. Then water boiled and the decoction is used against jaundice,	Its leaves are used as fodder for livestock.

							abdominal pain, indigestion and fever.	
66	Sonchus arvensis L.	Asteraceae	Chirnisak	Herb	Every where	Whole plant		Fodder.
67	Tagetes minuta L.	Asteraceae	French marigold	Herb	Garden	Whole plant		Ornamental plant.
68	Tagetes erecta L.	Asteraceae	Gulsambar	Herb	Garden	Whole plant		Ornamental plant.
69	Tagetes tenuifolia Cav.	Asteraceae	Gulsambar	Herb	Garden	Whole plant		Ornamental plant
70	Tragopogon pratensis L.	Asteraceae	Chiron	Herb	Upper pasture	Whole plant		Fodder.
71	Taraxacum officinale F.H. Wigg	Asteraceae	Phovow	Herb	Agricultur al land	Leaves and shoot	Leaves and young shoot are served as vegetable to treat constipation, liver and kidney disorder.	Fodder.
72	Berberis vulgaris L.	Berberidaceae	Chounj	Shrub	Exposed area	Whole plant	collected, juice is extracted and filtered which can be taken orally for the treatment of typhoid, jaundice, dyspepsia, blood	This plant is used as fencing agent agaist th grazing animals. also used as packing papers, which is mostly used as basket for the storage of butter and cheese. Stem is used as fire wood and leaves as animal fodder.
73	Betula utilis D.Don	Betulaceae	Bulee	Tree	Laspur gol	Whole plant	Bark of this plant is warmed and wrapped around boils.	The water proof thin bark was used as paper for writing in the past. Bark is
74	Anchusa arvensis (L.) M. Bieb.	Boraginaceae	Small bugloss	Herb	Every where	Leaves		Fodder.
75	Arnebia euchroma (Royle) Johnst	Boraginaceae	Phusook	Herb	Sandy area	Roots and leaves	The roots of this plant are dug out; outer bark is removed, dried, crushed and mixed with some mustard oil which turns into bright red and used to avoid and stop hair loss.	Leaves are used as fodder for livestock.
76	Solenanthus apenninus L.	Boraginaceae	Solenanth us	Herb	Every where	Leaves		Fodder.
77	Brassica compestris L.	Brassicaceae	Sarson	Herb	Field	Leaves		Vegetable and fodder.
78	Brassica rapa var.perviridis L.	Brassicaceae	Hazgar	Herb	Field	Leaves		Vegetable is excellent source of calcium.
79	Brassica napus	Brassicaceae	Kalam	Herb	Field	Whole plant		Vegetable and fodder.

	var.napobrassi ca								
80	Brassica oleracea var.capitate L.	Brassicaceae	Band ghobi	Herb	Field	Leaves			Vegetable is good source of vitamin K, and vitamin C.
81	Capsella bursa-pastoris (L.) Medikus	Brassicaceae	Shatara	Herb	Field	Whole plant			Fodder.
82	Descurainia Sophia L.	Brassicaceae	Tansy mustard	Herb	Plain areas	Whole plant			Fodder.
83	Lepidium ruderale L.	Brassicaceae	Palak khardachi	Herb	Field	Leaves		Leaves are used as salad for dyspepsia and stomach upset.	Salad.
84	Lepidium draba L.	Brassicaceae	Gordoghjo shu	Herb	Around field	Leaves			Fodder.
85	Nasturtium officinale W.T. Aiton	Brassicaceae	Toqjoshu	Herb	Wet area	Leaves stem	and		Stem and leaves are also used as livestock fodder.
86	Raphanus sativus var. longipinnatus L.H.Bailey	Brassicaceae	Muli	Herb	Field	Corm leaves	and		Leaves are served as fodder for cattle.
87	Raphanus caudatus L.	Brassicaceae	Trupakosh	Herb	Field	Whole plant			Fodder.
88	Raphanus sativa L.	Brassicaceae	Tipor	Herb	Field	Corm leaves	and		It can also be eaten raw. Leaves are served as fodder for cattle.
89	Sisymbrium irio L.	Brassicaceae	Khelikheli	Herb	Field	Leaves seeds	and	Seeds are grinded, powdered and mixed with few drop of water to make rounded ball like structure, which can be rubbed at flate stone and applied as mask on face to protect face from sunburn and facial pimples.	Leaves are served as fodder for animals.
90	Thalpi arvense L.	Brassicaceae	Field pennycress	Herb	Field	Whole plant			Fodder
91	Codonopsis clematidea Schrenk.	Campanulace ae	Marghon	Herb	Grassy area	Whole plant			Fodder.
92	Canabis sativa L.	Cannabaceae	Boung	Herb	Around fields	Whole plant		The leaves are dried, grinded and powdered called garda. Garda is mixed with wheat flour and is given to cattle against flatulence, abdominal pain and as	

							sedative. Seeds are fed to hens to enhance egg lying.	
93	Lepyrodiclis holosteoides (C.A.Mey.)	Caryophyllace ae	Birghal	Herb	Field	Whole plant	Young leaves are used to make vegetable which are laxative.	Plant is used as fodder for cattle.
94	Stellaria littoralis Torr.		Chick weeds	Herb	Marshy places	Whole plant		Fodder.
95	Silene conoidea L.		Apupar	Herb	Wheat field	Whole plant	A paste is prepared from the dried young leaves and seeds and applied on pimples affected skin also used in case of backache.	Plant is also used as fodder animals.
96	Capparis spinosa Linnaeus.	Capparidacea e	Kaveer	Shrub	Bare places	Flowers and fruits		Leaves are used as fodder while fleshy fruits are applied as face cosmetics.
97	Cuscuta epithymum L.	Cuscutaceae	Umbool	Herb	Every where	Whole plant		The plant is firscollected, dried, powdered, mixed with water and then coloured wools and white threads
98	Cuscuta reflexa Roxb	Cuscutaceae	Umbool	Herb	Every where	Whole plant		Dyeing agent.
99	Chenopodium album L.	Chenopodiac eae	Kunakh	Herb	Maize field	Leaves	Leaves are served as vegetable in the disorder of bowels, as laxative for Constipation	Fodder.
100	Chenopodium botrys L.		Khodur	Herb	Field	Leaves		Fodder.
101	Chenopodium murale L.		Gangali kunakh	Herb	Every where	Whole plant		Fodder.
102	Ipomoea indica (Burm.f.) Merr.	Convolvulace ae	Nazuk badan	Herb	Garden	Whole plant		Ornamental plant.
103	Convolvulus arvensis L.		Mish	Herb	Maize field	Whole plant		It grows as a weed in maize crop and serves as cattle fodder.
104	Rhodiola rosea L.	Crassulaceae	King 's crown	Herb	Hills	Whole plant		Ornamental plant.
105	Aeonium canariense Webb & Berthel.	Crassulaceae	Ghepjoshu	Herb	Alpine areas	Whole plant		Ornamental plant.

106	Cucarbita maxima L.	Cucarbitaceae	Alok	Herb	Field	Seeds, leaves fruits	&		Flowers and fruits are used as vegetables. Leaves are used as food for cattles.
107	Cucurbita pepo L.		Kadu	Herb	Field	Seeds, leaves fruits	&	Vegetable is used to lower blood pressure,	Leaves are eaten by cattle. Anti-cancerous and diuretic agent.
108	Cucumis sativus L.		Badrangh	Herb	Field	Leaves fruits	&		
109	Eleagnus angustifolia L.	Elaeagnaceae	Shounjur	Tree	Foresty area	Whole plant		powdered to treat asthma and cough. The gummy stem and branches resin is	The branches are cut by the formers to give out along the edges of cultivated fields to protect them grazing of animals. It is a best timber, firewood and animal fodder.
110	Hippophae rhamnoides L.	Elaeagnaceae	Mirghinz	Shrub	Foresty area	Whole plant		berries called Buringogh is used against high blood pressure and eye diseases. Barries are also applied on	Its branches are employed in thatching materials, animal fodder and firewood. It is also used as barbed boundary marker around field and along path to keep away cattle.
111	Euphorbia nicaeensis All.	Euphorbiacea e	Ano chirnisk	Herb	Hilly area	Latexs		When it is cut, bleed a milky white sap called latex which is applied externally on face to treat eczema and acne but over dose cause swelling on skin.	Leaves are used as fodder for animals.
112	Astragalus tragacantha L.	Fabaceae	Garmezu	Shrub	Hilly area	Whole plant			Thatching purpose and fire wood.
113	Astragalus sesameus L.		Orchokuch un	Herb	Hilly area	Whole plant			Fodder.
114	Asrtagalus solandri Lowe.		Doderokuc hun	Herb	Hilly areas	Whole plant			Fodder.
115	Astragalus adsurgens Pall.		Crown vetch	Herb	Hilly area	Leaves		Increase milk productivity of cattle.	Leaves and branches are served as fodder.
116	Cicer microphyllum L.		Qaquchun	Shrub	Hill slope	Whole plant			Used as firewood and fodder for cattle and also used in making edges of mud roofs. It prevents mouse passage because of its spiny stem.
117	Cicer arietinum L.		Chola	Herb	Field	Leavesan- seeds	d	The seeds are sweet and are used as anti diuretic, bronchitis and skin diseases	Leaves are used as fodder for cattle while seeds are consumed as pulse.
118	Coronilla varia L.		Like rub	Herb	Grazing land	Whole plant			Fodder.
119	Lathyrus odoratus L.		Jangali kuchoon	Herb	Garden	Whole plant			Ornamental plant.

120	Lens culinaris Medikus		Sirju	Herb	Field	Leaves fruits	and		Pulse and animal fodder.
121	Meliotus officinalis L.		Bisus	Herb	Fertile places	Whole plant			Fodder.
122	Medicago minima L		Small medick	Herb	Fertile places	Whole plant			Fodder.
123	Medicago sativa L.		Mushich	Herb	Fertile area	Leaves stem	&	The plant in fresh and dried condition is a fodder, which fattens the cattle.	Fodder
124	Pisum sativum L.		kuchoon	Herb	Field	Whole plant		Seeds are rich in proteins which are used as vegetable.	Stem and leaves are given to animals. Seeds are also edible without cooking
125	Phaseolus lunatu L.		Lobia	Herb	Field	Whole plant			The young pods are used as vegetable and seeds are eaten as pulse. Its leaves are served as fodder for cattle.
126	Sophora tomentosa L.		Khakhart	Shrub	Bare places	Whole plant			Decayed leaves provide good fertilizer and it is also served as fodder and firewood.
127	Trifolium prantense L.		Shaftal	Herb	Field	Whole plant		It thickens the milk of animals.	It increases soil fertility.
128	Trifolium repens L.		Shabluki	Herb	Fertile area	Leaves flowers	&	Increases the milking capacity of animals.	It has a good fragrance. It increase soil fertility and cultivated as crop rotation
129	Trifolium resupinatum L.		Shaftal	Herb	Field	Whole plant			It is generally grown as a fodder crop, important for its nitrogen fixation which increases soil fertility.
130	Vicia faba L.		Andalu	Herb	Field	Seeds leaves	&	small amount of salt and	Young pods and seeds are important source of pulse. Leaves and stem are used as fodder for domestic animals.
131	Vicia sativa L	Fabaceae	Kharashek	Herb	Wheat field	Whole plant		***************************************	Fodder.
132	Corydalis aurea Willd.	Fumaricaceae	Golden corydalis	Herb	Alpine area	Whole plant		•••••	Fodder.
133	Geranium carolinianum	Geraniaceae	Zarkari	Herb	Grassy areas	Whole plant			Fodder.
134	Geranium wallichianum Oliv.	Geraniaceae	Garden Geranium	Herb	Alpine areas	Whole plant			Ornamental plant.
135	Ribes grossularia L.	Grossulariace ae	Ghangu	Shrub	Upper pasture	Whole plant		***************************************	Fruits/barriers are much liked by the children. Leaves are used as fodder and stem is used as firewood.

136	Ribes aureum Pursh		Qalahure gamburi	Shrub	Garden	Whole plant			Ornamental plant having good aroma.
137	Ribes oxyacanthoide s L.	Grossulariace ae	Chilanju	Shrub	Upper pasture	Whole plant			Firewood and fodder.
138	Juglans regia L.	Juglandaceae	Birmough	Tree	Every where	Whole plant		gums and tooth diseases and sparkling of teeth. It has warm nature and can cause	Seeds yield cooking oil. The plant is used in agricultural tools, green manure fodder, and firewood and dyeing agent. Pericarp of fruit is used as hair dye.
139	Lamium amplexicaule L	Lamiaceae	Greater henbit	Herb	Grassy areas	Leaves stem	&		Leaves are given to cattle. It is an important nectar and pollen plant for bees
140	Mentha arvensis L		Podina	Herb	Garden	Stem leaves	&		This herb has a beautiful fragrance therefore its leaves and young stem are used as condiment.
141	Mentha longifolia (L.) Huds.		Ben	Herb	Bank of canal	Whole plant		called Benough, which cures	In early spring, the fresh leaves are collected and used as salad. It is used as fodder in dry condition.
142	Nepata cataria L.		Mutrich	Herb	Grassy areas	Whole plant		Seeds pastes are applied to injuries and backache.	It is a weed of cultivation and fodder for cattle.
143	Mentha spicata L.		Suspru	Herb	Field	Whole plant		The leaves and flowers meshed with wheat flour, are cooked to prepare Suspruough, which is eaten as febrifuge and appetizer and to cures dyspepsia, typhoid and stomach pain.	It is also used as salad and condiment.
144	Thymus serphyllum L.	Lamiaceae	Siew	Herb	Alpine pastures	Seeds leaves	&	The plant having good smell and locally green tea is made from its leaves and flowers which are considered as medicine for fever, cough, cold and headache	
145	Linum usitatissimum L.	Linaceae	Shintiki	Herb	Field	Seeds fruits	&	Seeds are grinded and fried then a paste is made from it which is use full for toothache and lumbago.	***************************************
146	Lawsonia inermis L.	Lythraceae	Shorang	Herb	Field	Leaves& flowers			Leaves ground and made into powder applied for hair dyeing.

								externally applied to athlete foot to relieve.	
147	Abelmoschus esculentus (L.) Moench.	Malvaceae	Bhindi	Herb	Field	Leaves fruits	&		Leaves are served as fodder for animals while fruits are used as vegetable.
148	Alcea rosea L.		Layn	Herb	Garden	Leaves Petals.	&	The dried petals are grinded, powdered and poultice is made which is applied to the boils to draw out the puss. After two to three times application the patient should be rid of the boil	Ornamentally used.
149	Malva neglecta Wallr.		Suwachal shakh	Herb	Field	Leaves seeds	&	Leaves are used as vegetable to treat constipation and other digestive problems and also act as cooling agent.	
150	Malva sylvestris L.	Malvaceae	Suwachal gamburi	Herb	Garden	Whole plant		The young leaves are served as vegetable to cure joint pain.	Ornamental plant.
151	Acacia arabica (Lam.) Willd	Mimosaceae	Kiker	Tree	Foresty area	Whole plant			Hard wood is durable and is used for the construction of homes, fuel wood and other purposes while leaves are fodder for animals.
152	Morus alba L	Moraceae	Mrach	Tree	Garden	Whole plant		Fruits are directly used in jaundice.	Leaves are used as fodder for cattle while branches and stem are used as firewood.
153	Morus nigra L	Moraceae	Shamrach	Tree	Garden	Whole plant		Black mulberry can be cultivated for its edible fruit which are used in jaundice, dyspepsia and as blood purifier.	,
154	Epilobium angustifolium L.	Onagraceae	Telibashu	Herb	Foresty area	Leaves			Fodder
155	Euphrasia officinalis L.	Orobanchacea e	Eyebright plant	Herb	Marshy places				Fodder
156	Pedicularis sceptrum- carolinum L.	Orobanchacea e	Charachari	Herb	Around field	Leaves stem	&		Fodder.
157	Fraxinus excelsior L.	Oleaceae	Toor	Tree	Laspur gol	Whole plant		boiled bark is given orally to pregnant women to deliver premature baby provided	agricultural tools and as thatching purposes; while leaves are served as fodder for
158	Jasminum officinale L.	Oleaceae	Chambeli	Shrub	Garden	Whole plant			Ornamental plant

159	Atraphaxis pyrifolia Bung.	Polygonaceae	Ishpen	Shrub	Upper pasture	Whole plant		Firewood, fodder and exe handle etc.
160	Oxyria digyna (L.) Hill	Polygonaceae	Shutshakh u	Herb	Upper pasture	Leaves & stem	taste and are rich in vitamin	Leaves are used to make vegetable and also eaten raw. The plant is important for both insects and larger animals that feed on it in cold and alpine regions where it occurs.
161	Poligonum persicara L.		Spoted lady thumb	Herb	Field	Leaves	Increase milk productivity in animals.	Fodder
162	Rheum emodi L.		Ishpar	Herb	Hills	Floral scap & leaves	e Floral escape is edible and eaten raw. This is used for treatment of flue and cough.	
163	Rumex longifolius DC.	Polygonaceae	Chirkonzu	Herb	Damp grassy places	Leaves	The fresh leaves are collected, boiled, cut, and the past are mixed with tomato, onion, ginger, garlic, salt (as required) and then fried in oil, this gravy is used as laxative when eaten as vegetable.	
164	Papaver somniferum L.	Papaveraceae	Koknar	Herb	Field	Capsule & latex	Latex is extracted from the popy capsule called affune. Opium is taken in small doses orally or smoked near as pain killer for scorpion bite. It is used by some as an aphrodisiac; as it stimulates the sense of pleasure and increase physical vigor. Seeds are mixed with tea and are given to patients having nasal and chest congestion, bronchitis and sunstroke	
165	Papaver rhoeas L.	Papaveraceae	Poppy plant	Herb	Garden	Whole plant	It contains alkaloid Rhoeadine which is sedative and narcotic in nature.	Ornamental plant
166	Acantholimon ulicinum (Willd.ex Schult) .	Plumbaginace ae	Plis tholpak	Shrub	Hill	Whole plant		Firewood and fodder
167	Acantholimon bracteatum var. capitatum BOISS.	Plumbaginace ae	Tholpak	Shrub	Hill	Whole plant		Firewood.
168	Plantago lanceolata L.	Plantaginacea e	Boikoligini	Herb	Grassy area	Seeds & leaves		Fodder
169	Plantago major L.	Plantaginacea	Ispaghol	Herb	Grassy	Leaves	The seeds are soaked in	Leaves serve as cattle fodder

							diarrhea, loose motions and constipation	
170	Primula rosea Royle.	Primulaceae	Bulisqar	Herb	Bank of canal	Whole plant	***************************************	This ornamental plant usually grows in spring season.
171	Primula macrophylla D.Don.		Punar	Herb	Upper pasture	Whole plant	The white powdery deposition from ventral sides of leaves and flowers stalks is used to cure irritation, redness and other eye diseases.	
172	Aconitum carmichaelii Debeaux	Ranunculacea e	Zharojosh	Herb	Upper pasture	Roots	Roots are peeled, dried, powdered and mixed with hair oil to remove dandruff and lice by strengthening and cleaning hair. Roots are very poisonous when eaten, cause death.	
173	Clematis orientalis L.		Chountrou k	Shrub	Sandy area	Whole plant	A paste is prepard from the crushed leaves and used against eczema.	It is also used as firewood and fodder for animals.
174	Ranunculus cymbalaria Pursh.		Chiririjosh	Herb	Equatic	Leaves		Fodder
175	Delphinium brunonianum Royle		Makuti	Herb	Upper pasture	Whole plant	Seeds and leaves roots decoction act as healing, anthelmintic and insecticidal and antilice agent. It is very poisonous plant and used for destroying maggots in animals wounds, particularly in sheeps and goats.	The flowers are considered harsh, bitter and unpleasant.
176	Trollius europaeus L.		Globe flower	Herb	Garden	Whole plant	<i></i>	Ornamental plant
177	Ranunculus equatilis L.		Oowough gass	Herb	Equatic	Whole plant		Fodder
178	Ranunculus millefoliatus vahl	Ranunculacea e	Buttercup	Herb	Upper pasture	Whole plant		Fodder
179	Cotoneaster nummularia Fisch.et Mey.	Rosaceae	Mikini	Shrub	Forestry area	Whole plant	The edible fruits are blood purifier.	Firewood and fodder for cattle
180	Crataegus songarica K.Koch		Ghooni	Tree	Foresty area	Whole plant		It is timber wood, firewood and also used as fodder for animals.
181	Potentilla anserina L.		Silverweed	Herb	Moist soil	Leaves		Fodder.

182	Prunus armeniaca L.	Zhuli	Tree	Everywher e	Whole plant		soaked in water to obtain sweet syrup; this syrup is	Its leaves are served as fodder while stem is used as timber and firewood. Fruits of Prunus armeniaca are edible.
183	Prunus avium L.	Cherry	Tree	Lower Laspur	Whole plant			Fruits are eaten and leaves are given to animals while wood is used for sports items as well as for fuel purpose. It is a best plant for shade.
184	Prunus persica (L.) Stokes	Gherwalog h	Tree	Garden	Whole plant		with water, are usually	Fruits are edible and delicious to eat. The leaves are served as fodder and stem is used as firewood.
185	Pyrus communis L.	Toung	Tree	Garden	Whole plant			Pear is grown for their edible fruit which is rich in vitamins. Leaves are used as animal fodder, while branches and stem are used used as firewood
186	Pyrus mallus L.	Palough	Tree	Garden	Whole plant		Fruits are good source of energy and stomach ache.	The dried fruits are called Palavushto and are used during winter. Branches and stem are efficient for firewood. There are four varieties of apples in the area: Isdob (Sweet and juicy), Shout palough (sour), Basoti (larger and sweeter) and Shokorpalough (sweetest and smallest)
187	Rosa alba L.	Gulab	Shrub	Bare area	Flowers leaves	&	Juice of petals is used to cure eye disease (opthalmitic) and abdominal pain.	Ornamental plant.
188	Rosa indica L.	Gulab	Shrub	Garden	Flowers leaves	&	Petals are crushed; juice is extracted, which is important for blood purification	Ornamental plant.
189	Rubus fruticosus L. sens.str.	Atchu	Shrub	Foresty area	Whole plant			Stem and branches are mostly used as firewood while leaves are served as fodder for animals.
190	Rosa Rosace webbiana Wall ex. Royle.	eae Throny	Shrub	Bare area	Whole plant		are collected, petals are dried, crushed and powdered; this powder in	In Laspur, people enclose poplars and other trees with thorny bushes of these plants, willow branches or erecting stone and mud walls to

							tea, due to which herbal tea is made for stomach ache.	control free grazing of animals
191	Populus nigra L.	Salicaceae	Terek	Tree	Entire valley	Whole plant		The bark peels are used in basketry. The plant yields timber of good quality. People have started using poplar timber widely for construction of houses.
192	Populus trichocarpa Torr. & A.Gray.		Romenu	Tree	Entire valley	Whole plant		Timber wood, fire wood and fodder
193	Salix candida Flüggé ex Willd.		Bubahak chikar	Tree	Foresty area	Whole plant		Mud supporter and prevent soil erosion.
194	Salix acomphylla Boiss.		Chikar	Tree	Entire valley	Whole plant		Young shoots are used in basketry and as thatching material for houses. It is a best timber wood and firewood.
195	Salix alba L.		Teli	Tree	Entire valley	Whole plant		The stem barkes and young branches are used in basketry, thatching material and it is also highly appropriate for cricket bats, toy bats and artificial limbs. It serves as a shade tree.
196	Salica exigua Nutt.		Narrowleaf willow	Tree	Foresty area	Whole plant		Fire wood and fodder.
197	Salix arctica Pall.	Salicaceae	Arctic willow	Shrub	Hilly area	Whole plant		The arctic willow is a food source for several arctic animals.
198	Bergenia stracheyi (Hook.f. & Thorns.) Engl.	Saxifragaceae	Besabur	Herb	Hill	Whole plant	Seeds, leaves, roots and latex are used for eczema, tooth ache and bleeding gums. Roots of the plants are crushed; boiled and aqueous extract is obtained called, Bisabur pooru, which is used as face cream (sun block)	
199	Linaria vulgaris Mill.	Scrofulariacea e	Toadflax	Herb	Garden	Whole plant		Ornamental plant.
200	Verbascum Thapsus L.	Scrofulariacea e	Gordoghka ru	Herb	Sandy area	Leaves & stem	The leaves are used for dish washing especially effective in cleaning some oily and greasy utensils. Leaves are given to cattle as fodder to treat abdominal swelling.	

201	Ailanthus altissima (Mill.) Swingle	Simaroubacea e	Bakayini	Tree	Forestry area	Whole plant	Its leaves are stomach ache for cattle.	Stem is used as fire wood and branches are used for sheltering purpose.
202	Datura stramonium L.	Solanaceae	Bangediva na	Herb	Dry plains	Stem & branches	The peel from dried stem and branches, called khaf, are placed over affected parts of the body and burnt to treat rheumatic diseases. Seed smoke is considered as evil repellent and protects from evil sight	
203	Hyocyamus niger L.		Ispandur	Herb	Dry plains	Seeds and branches	Flowers, fruits and stems are heated for pan and used against backache. Its dried seeds are burnt and fumigated for the protection from evil eyes.	
204	Lycopersicon esculentum Mill.		Patingel	Herb	Field	Leaves & fruits		Condiment
205	Nicotiana tobaccum L.		Tamaku	Herb	Field	Leaves	Leaves are used as anthelmintic agent. The dried leaves are used in making snuff.	
206	Solanum nigrum L.		Pirmilik	Herb	Field	Barries & leaves	Ripened fruits are collected to extract its juice. It is effective against eyes irritation and against sunburn. The fruits are eaten as stomachache.	It is also used as fodder for animals.
207	Solanum tuberosum L.		Alu	Herb	Field	Whole plant		Potatto tubers are used as vegetable; and are also the source of starch. Potatto is one of the best sourse of income.
208	Solanum melongena L.	Solanaceae	Patigan	Herb	Field	Leaves & corm		Vegetable and fodder.
209	Daphne mucronata Royle.	Thymeleaceae	Lovomikini	Shrub	Upper pasture	Whole plant		Stem is used as firewood while leaves are eaten by animals.
210	Myricaria elegans Royle	Tamaricaceae	Phaphaki	Shrub	Sandy area	Leaves & stem	Flowers are collected, dried, powdered and its paste is used in backache.	Leaves are used as fodder while stem as firewood.
211	Viola rupestris F.W.Schmidt.	Violaceae	Milkhon	Herb	Upper pasture	Flower & leaves	Flowers are dried and powdered which is used in making decoction for cough. It is also as an astringent and purgative agent.	Ornamental plant.

212	Vitis L.	vinifera	Vitaceae	Droch		Lower Laspur	Whole plant	and diuretic. It can cause gastric problem.	It has both medicinal and nutritional value. Leaves are used in animal feeding. Stem is used for fuel.
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