

*Research article/Araştırma makalesi***An ethnobotanical research of the Kalecik mountain area (Şanlıurfa, South-East Anatolia)**Hasan AKAN<sup>\*1</sup>, Mahmut AYDOĞDU<sup>2</sup>, M.Mustafa KORKUT<sup>3</sup>, M.Maruf BALOS<sup>4</sup><sup>1</sup> Harran University, Science And Arts Faculty, Biology Department, 63200, Şanlıurfa-Turkey<sup>2</sup> Mehmet Güneş Anadolu Öğretmen Lisesi, Karaköprü, 63100, Şanlıurfa<sup>3</sup> Şanlıurfa Balkılıgöl Devlet Hastanesi Eczane deposu, 6100, Şanlıurfa<sup>4</sup> Sabiha Özlek Lisesi, Yunus Emre Caddesi, 63100, Şanlıurfa**Abstract**

This research was carried out to reveal the ethnobotanical characteristics of the settlements and the floristic composition of Kalecik Mountain area, between the years 2002 and 2003. The research area is located within the boundaries of Şanlıurfa in south-east Anatolia, and in the C7 square of the Grid system of *Flora of Turkey*. During the study, interviews were applied at different times to different people in five rural settlements of the region. Interviews were conducted with 15 boys, 51 men and 29 women, totally 95 informants, by showing them the gathered plants. 516 plant specimens belonged to 39 families, and 238 taxa were determined within the research area. Among these, 126 taxa gathered within the research area had local names and were known as useful to the villagers. It was determined that 38 of these plants were used as food, 37 for medicinal purposes, 32 as fodder plants and 5 as ornamental plants, 5 in producing broom, 5 for fuel, 4 in dying, 3 in children's games, and 3 were used as indicator plants. Moreover, according to the survey results, 11 of these plants were determined to have harmful effects on animals. As a result, the percentage of the usefuls within the total is 48.3%.

**Key words:** Flora, Ethnobotany, Kalecik mountain, Şanlıurfa.

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**Kalecik dağı alanında etnobotanik bir araştırma (Şanlıurfa, Güneydoğu Anadolu)****Özet**

Bu araştırmada 2002-2003 yılları arasında florası tespit edilen Kalecik Dağının etnobotanik özelliklerinin ortaya çıkarılması amaçlanmıştır. Araştırma alanı Şanlıurfa il sınırları içerisinde ve Grid sistemine göre C7 karesindedir. Araştırma bölgesinde 39 familyaya bağlı 140 cins ve 238 takson tespit edilmiştir. Çalışma sırasında bölgeden tespit edilen 5 ayrı yerleşim birimine farklı zamanlarda gidilerek önceden hazırlanmış anketler farklı kişiler üzerinde uygulandı. Anketler, 4'ü çocuk, 25 erkek ve 9 kadın olmak üzere toplam 34 denek üzerinde, toplanmış bitkilerin gösterilmesi şeklinde yapıldı. Araştırma alanından toplanan 238 taksondan yalnızca 126 tanesinin yoresel isimlerinin bulunduğu tespit edildi. Bu bitkilerin 38 tanesinin yiyecek olarak, 37 tanesinin tedavi amaçlı, 32 tanesinin yem bitkisi olarak, 5 tanesinin süs bitkisi olarak, 5 tanesinin süpürge yapımında, 5 tanesinin yakacak olarak, 4 tanesinin boyama amaçlı, 3 tanesinin çocukların tarafından oyun amaçlı, 3 tanesinin de indikatör bitki olarak kullanıldığı tespit edilmiştir. Ayrıca bu bitkilerden 11 tanesinin zararlı etkilerinin olduğu anketler sonucu tespit edilmiştir.

**Anahtar kelimeler:** Flora, etnobotanik, Kalecik dağı, Şanlıurfa**1. Introduction**

The research area, Kalecik mountain, is located in the Irano-Turanian phytogeographic region and is situated in the C7 square and completely located within the province of Şanlıurfa. Kalecik mountain is located in the north-west of

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Şanlıurfa province, and it consists of 3 hills. It is very close to the Euphrates, and is an important region representing the floristic composition of the province. The altitude varies between 500 and 905 m. There are 4 villages and a town in and around the research area. Generally settlements are dense at the foot of the mountain. The town is Bozova; the villages in and around the research area are Kalecik, Kırkpınar, Korukezen and Yarımtıpe (Figure 1). There are some cultivated fields around the mountain where mainly pistachios, olives, grapes and walnuts are grown. The agriculture is based on cereals, essentially wheat and lentils. However, some vegetables are also grown, such as tomatoes, peppers, and ambergine. At the same time, pistachios are widely cultivated. In the research area, ethnobotanical study has not been carried out up to date. However, some studies related on medicinal and aromatic plants are carried out by Anonymous (2001), Özel (1999), Yağmur et al. (1991), Aksoy et al. (1988), Ersin & Aksoy (2004) and Nahya (1983), Yıldız (1997, 2000) and Polat et al. (2012).

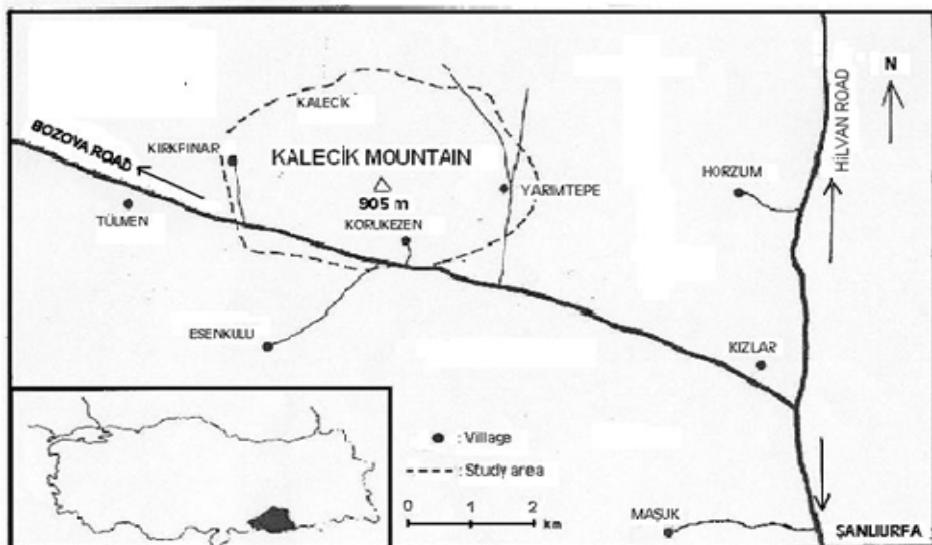


Figure 1. The map of research area, Kalecik mountain and its surrounding.

Şekil 1. Araştırma alanı, Kalecik dağı ve çevresinin haritası..

## 2. Materials and methods

To constitute the research material, 516 plant specimens were collected from Kalecik mountain in 2002 and 2003 in different vegetation seasons. A collector number was given, and the specimens were dried according to the standard herbarium methods. The “Flora of Turkey and the East Aegean Islands” (Davis, 1965-1985; Davis et al, 1988) was used to identify the plant samples. The widespread name of plant is given according to Baytop (1997, 1999). The plant samples collected from the region are kept in the herbarium of Harran University, Şanlıurfa. During the study, interviews were applied at different times to different people in five rural settlements of the region. Interviews were conducted with 15 boys, 51 men and 29 women, totally 95 informants, by showing them the gathered plants. With the interviews, it is determined the local names, the using purpose, using manner, and using part of plant species. The following details are given: family name, species name and the author(s), local names, the using purpose, using manner, using part, and collection number of plant which is belong to M. Aydoğdu..

## 3. Results

Table 1. Useful Species of the Kalecik Mountain, Şanlıurfa, South-East Anatolia  
Tablo 1. Kalecik Dağı'nın faydalı bitki türleri, Şanlıurfa, Güneydoğu Anadolu

Plant name	Local name (s)	Used part	The purpose of using/using manner	Vouscher specimen no
<i>Acanthus syriacus</i> Boiss.	Kerengi Deva, Çiçegey Deva	aboveground	Fodder of camels. Hanging as ornamental	1405
<i>Achillea aleppica</i> DC. subsp. <i>aleppica</i>	Çiçege Mara	-	-	1357
<i>Aegilops triuncialis</i> L. subsp. <i>triuncialis</i>	Gihaye Reş	-	-	1362
<i>Alcea apterocarpa</i> (Fenzl) Boiss.	Hiro	Corolla	For asthma and coughing	1300

Table 1. (Continued)

<b>Alhagi pseudalhagi</b> (M.Bieb.) Desv.	Hurnif	Fruit, aboveground	For asthma and diarrhoea. It is also used for broom.	1516
<b>Alkanna hirsutissima</b> (Bertol.) DC.	Havaco	root	Dying and ointment	1337
<b>Alkanna megacarpa</b> DC.	Havaco	root	Dying and ointment	1252
<b>Allium scorodoprasum</b> L. subsp. <i>rotundum</i> (L.) Stearn	Sirim	aboveground	Pastry and using as vegetables.Sold in weekly markets	1149
<b>Althaea armeniaca</b> Ten.	Hiro	flowers	For asthma and coughing	1477/a
<b>Anchusa azurea</b> Mill. var. <i>azurea</i>	Guriz	aboveground	food	1305
<b>Anthemis hyalina</b> DC.	Yoğurt Çiçeği.	stem	food.	1415
<b>Anthmis altissima</b> L.	Yoğurt Çiçeği.	-	-	1314
<b>Astragalus aleppicus</b> Boiss.	Gunpisik	-	-	1443
<b>Astragalus russelii</b> Banks & Sol.	Guni	root and aboveground	Root as fodder. aboveground as fuel.	1099
<b>Astragalus xylobasis</b> Freyn & Bornm. var. <i>angustus</i> (Freyn & Sint.) Freyn & Bornm.	Colbaney deva	aboveground	fodder	1369
<b>Asyneuma filipes</b> (Nábělek) Damboldt	Ariy Şevey.		Indicator for firefly	1087
<b>Avena sterilis</b> L. subsp. <i>sterilis</i>	Yulaf, Luf	aboveground	fodder	1119
<b>Bifora testiculata</b> (L.) Spreng. ex Schult.	Öğlük otu	aboveground	stomachache and fear /infusion	1068
<b>Bunium paucifolium</b> DC. var. <i>paucifolium</i>	Çiçegey gevр	aboveground	fodder	1366
<b>Capparis ovata</b> Desf. var. <i>palaestina</i> D.Zohary	Keber	buds & fruit	Food/pickle	1504
<b>Cardaria draba</b> (L.) Desv.		aboveground	fuel	1315/a
<b>Carduus nutans</b> L. subsp. <i>nutans</i>	Kerbeş	stem	Food/ fresh.	1166
<b>Carduus pycnocephalus</b> L. subsp. <i>albidus</i> (M.Bieb.) Kazmi	Kerbeş	stem	Food/fresh	1241
<b>Centaurea depressa</b> M.Bieb.	Mitemor	aboveground	for prevent fear on kids/infusion	1115
<b>Centaurea solstitialis</b> L. subsp. <i>solstitialis</i>	Çakırđikeni.	aboveground	food/pastry	1159
<b>Centaurea triumfettii</b> All.	Oğlak Sakızı	Aboveground	as a fresh/ chew gum	1506
<b>Cirsium vulgare</b> (Savi) Ten.	Isturiye müşk	stem	as a fresh/food	1503
<b>Convolvulus arvensis</b> L.	Peyçek, Sarmaşık	aboveground	fodder	1432
<b>Coronilla scorpioides</b> (L.) C.Koch	Çigrik	aboveground	fodder	1077
<b>Crocus cancellatus</b> Herb. subsp. <i>damascenus</i> (Herb.) B.Mathew	Pivokey Hespa	tuber	additive to foods	1183
<b>Crocus pallasi</b> Goldb. subsp. <i>turcicus</i> B.Mathew	Pivokey Kuçika, Pivokey Hespa	-	-	1056
<b>Daucus broteri</b> Ten.	Meyane, Daruk, Gihaye Gevrik.	aboveground	fodder	1481
<b>Echinophora tenuifolia</b> L. subsp. <i>sibthorpiana</i> (Guss.) Tutin	Mellik, Bilbal, Dereotu	aboveground	food	1178
<b>Echinops orientalis</b> Trautv.	Istiriy Devan Kurindor	flowers	Flowers on the capitulum are removed and the rest is for eating	1511
<b>Eminium rauwolffii</b> (Blume) Schott var. <i>rauwolffii</i>	Karriy, Zillikey Ereba	aboveground	dye as a sign on the animals	1054
<b>Eminium spiculatum</b> (Blume) Schott var. <i>spiculatum</i>	Zillikey Eraba	aboveground	dye as a sign on the animals. Harmful for animals	1044

Table 1. (Continued)

<b>Eremopyrum bonaepartis</b> (Spreng.) Nevski subsp. <b>bonaepartis</b>	Şafir	aboveground	fodder	1347/b
<b>Erodium cicutarium</b> (L.) L'Hér. subsp. <b>cicutarium</b>	Gihaye Seet, Pincar, Kurincok	Fruit	Child's play	1063/b
<b>Erophila verna</b> (L.) Chevall. subsp. <b>verna</b>	Şimilik	levaes	food	1203
<b>Euphorbia macrooclada</b> Boiss.	Heşula Deva	aboveground	Fluid of plant for cease of pain. Clean the dirty waters.	1489
<b>Euphorbia macrostegia</b> Boiss.	Heşul	aboveground	Valuable plant for additive of grape molasses.	1515
<b>Euphorbia microsphaera</b> Boiss.	Heşula Deva	aboveground	fodder for camels in the past	1124
<b>Ficus carica</b> L. subsp. <b>rupestris</b> (Hausskn.) Browicz	Hejir. İncir	branch of stem	to remove the achnes of face.	1050
<b>Filago pyramidata</b> L.	Çiçege Mast.			1338/b.
<b>Fumaria asepala</b> Boiss.	Eğli otu	flowers	to remove the injuries on the face/infusion	1111
<b>Geranium tuberosum</b> L. subsp. <b>tuberousum</b>	Helilok	Tuber, aboveground	Fodder/ tubers are edible	1312
<b>Gladiolus micranthus</b> Stapf	Çiçege Beriyan	aboveground	ornamental on the head of young females	1257
<b>Glaucium corniculatum</b> (L.) Rudolph subsp. <b>corniculatum</b>	Şakşako	flowers	to release pains/infusion	1490
<b>Glycyrrhiza glabra</b> L. var. <b>glabra</b>	Sus, Meyan	root	to release the pains of kidneys and stomach/ sweetened fruit juice	1473
<b>Gundelia tournefortii</b> L. var. <b>armata</b> Freyn & Sint.	Kenger, Kereng	root	food/gum	1171
<b>Gypsophila viscosa</b> Murray	Çırçırik	aboveground	fodder/	1425
<b>Hedysarum pannosum</b> (Boiss.) Boiss.	Yonca	aboveground	Fodder	1395
<b>Helianthemum salicifolium</b> (L.) Mill.	Gihaye kimiya.		Indicator of mushroom	1354
<b>Hippocrepis unisiliquosa</b> L. subsp. <b>unisiliquosa</b>	Yonca	aboveground	fodder	1500/a
<b>Hordeum spontaneum</b> C.Koch.	Kılçık	aboveground	fodder	1298/b
<b>Hordeum murinum</b> L. subsp. <b>leporinum</b> (Link) Archer var. <b>leporinum</b>	Kılçık	aboveground	fodder	1118/a
<b>Hyacinthella nervosa</b> (Bertol.) Chouard	İsalan	aboveground	food	1197
<b>Hypecoum procumbens</b> L.	Gurnikey bistan	-	-	1123
<b>Hypericum capitatum</b> Choisy var. <b>luteum</b> N.Robson	Aringe zer	aboveground	pain releases for animals	1390
<b>Hypericum capitatum</b> Choisy var. <b>capitatum</b>	Aringe sor	aboveground	pain releases for animals	1364
<b>Hypericum retusum</b> Aucher	Behtof.	aboveground	pain releases for animals	1180
<b>Hypericum triquetrifolium</b> Turra	Behtof	aboveground	pain releases for animals	1514
<b>Iberis acutiloba</b> Bertol.	Sipirgeye Teel Açı Süpürge	aboveground	broom	1187
<b>Iris persica</b> L.	Soğan Çiçeği	flowers	Ornamental	1185
<b>Ixiolirion tataricum</b> (Pall.) Herb. subsp. <b>tataricum</b>	Ancurok	flowers	food/ornamental	1307
<b>Lactuca serriola</b> Boiss.	Kajo	aboveground	Food	1505

*Table 1. (Continued)*

<b>Lathyrus aphaca</b> L. var. <b>modestus</b> P.H.Davis	Collikey Çırçirk	aboveground	Fodder	1078
<b>Lathyrus sativus</b> L.	Collikey Cotkarey	aboveground	Food/fooder	1326
<b>Linum mucronatum</b> Bertol. subsp. <b>mucronatum</b>	Çiçege zer	flowers	for sterility in womens/infusion	1327
<b>Marrubium parviflorum</b> A.Fisch. & C.A.Mey. subsp. <b>parviflorum</b>		aboveground	to release stomachashe	1434
<b>Medicago minima</b> (L.) Bartal. var. <b>minima</b>	Yonca	aboveground	Fodder	1469
<b>Medicago noeana</b> Boiss.	Guharey guhan, Kundırkoşk.	aboveground	Child's play	1229/b
<b>Medicago orbicularis</b> (L.) Bartal.	Yonca	aboveground	İncrease the milk of cow	1109
<b>Medicago polymorpha</b> L. var. <b>vulgaris</b> (Benth.) Shinners	Yonca	aboveground	fodder	1464
<b>Medicago radiata</b> L.	Yonca	aboveground	fodder	1168/b
<b>Medicago rigidula</b> (L.) All. var. <b>rigidula</b>	Yonca	aboveground	fodder	1484
<b>Melica ciliata</b> L. subsp. <b>ciliata</b>	Gennimok	aboveground	fodder	1501
<b>Muscari neglectum</b> Guss.	Sirime Şivana, Coban Sarımsağı	aboveground	additive of pastry	1090
<b>Notobasis syriaca</b> (L.) Cass.		stem	food	1174
<b>Ononis spinosa</b> L. subsp. <b>leiosperma</b> (Boiss.) Širj.	Lavlavik	aboveground	Additive to pastry	1435
<b>Onobrychis altissima</b> Grossh.	Yonca	seed	Fodder	1157
<b>Onobrychis armena</b> Boiss. & A.Huet	Collikey Pisika	aboveground	Fodder	1407
<b>Onobrychis kotschyana</b> Fenzl	Yonca	aboveground	Fodder	1275
<b>Onobrychis megataphros</b> Boiss. var. <b>podperae</b> Širj. & Nâbèlek	Yonca	aboveground	Fodder	1493
<b>Onosma isauricum</b> Boiss. & Heldr.	Guriz			1456
<b>Onosma sericeum</b> Willd.	Benıştey Karika	aboveground	gum	1491
<b>Ornithogalum oligophyllum</b> E.D.Clarke	Sire Kuçika			1055
<b>Orobanche mutellii</b> F.J.Schultz	Hıllık		Harmful to melon field.	1438
<b>Papaver arenarium</b> M.Bieb.	Şakşako	flowers	To release the pains	1331
<b>Phleum pratense</b> L.	Kamir		İndicator for the Well.	1317
<b>Phlomis bruguieri</b> Desf.	Guhbellik	aboveground	Fodder	1475
<b>Phlomis kurdica</b> Rech.f.	Guhbellik	aboveground	Fodder	1474
<b>Pimpinella corymbosa</b> Boiss.	Gihaye Porik, Çiçege Gevrilik.			1164
<b>Pimpinella eriocarpa</b> Banks & Sol.	Kineyber	aboveground	Food	1315/b
<b>Pisum sativum</b> L. subsp. <b>elatius</b> (M.Bieb.) Asch. & Graebn. var. <b>pumilio</b> Meikle	Colhatun, Collik	aboveground	Food and fodder	1088
<b>Prangos peucedanifolia</b> Fenzl		flowers	to prevent itch.	1167
<b>Salvia multicaulis</b> Vahl	Çobandöşegi	aboveground	to release stomachache	154

Table 1. (Continued)

<b>Salvia syriaca</b> L.	Seyvenok	aboveground	Fodder/child's play	1429
<b>Salvia virgata</b> Jacq.	Seyvenok	aboveground	Facilitate the digestion	1427
<b>Scabiosa argentea</b> L.	Sipergeye Zer, Dağ Süpürgesi	aboveground	broom	1391
<b>Scabiosa rotata</b> M.Bieb.	Zivan		Harmful to crops	1423
<b>Scandix stellata</b> Banks & Sol.	Reşreşik, Sepij.	aboveground	Fodder	1125
<b>Scorpiurus muricatus</b> L. var. <b>subvillosus</b> (L.) Fiori	Yonca	aboveground	Fodder	1416/b
<b>Scorzonera kotschy</b> Boiss.	Galinç, Gizerok, Dağ Havucu	aboveground	Fodder	1419
<b>Scutellaria tomentosa</b> Bertol.	Adaçayı	aboveground	Herbal tea	1497
<b>Silene coniflora</b> Nees	Dümüşok	flowers	food	1289
<b>Sinapis arvensis</b> L.	Herdal	leaves	Food	1130
<b>Tanacetum argenteum</b> (Lam.) Willd. subsp. <b>argenteum</b>	Çicegey Mast	flowers	to release pains/infusion.	1373
<b>Taraxacum phaleratum</b> G.E.Haglund ex Rech.	Kajo			1224
<b>Taraxacum sintenisii</b> Dahlst.	Kajo, Gihaye Şir	aboveground	fodder. Increase the milk of cow.	1295
<b>Teucrium polium</b> L.	Talik, Meyremhort.	flowers	Herbal tea. Pain releavers for the babies.	1495
<b>Torilis leptophylla</b> (L.) Rchb.	Gurnik, Devedikeni	Fruit & leaves	for the kidney disorders	1141
<b>Trifolium campestre</b> Schreb.	Yonca	aboveground	Fodder	1134
<b>Trifolium dasycnemum</b> C.Presl	Yonca	aboveground	Fodder	1451
<b>Trifolium echinatum</b> M.Bieb. var. <b>echinatum</b>	Yonca	aboveground	Fodder	1165
<b>Trifolium leucanthum</b> M.Bieb.	Yonca	aboveground	Fodder	1114
<b>Trifolium pilulare</b> Boiss.	Yonca	aboveground	Fodder	1302/a.
<b>Trifolium resupinatum</b> L. var. <b>resupinatum</b>	Yonca	aboveground	Fodder	1107
<b>Trifolium spumosum</b> L.	Yonca	aboveground	Fodder	1302/b
<b>Trifolium tomentosum</b> L. var. <b>tomentosum</b>	Yonca	aboveground	Fodder	1344
<b>Trigonella coelesyriaca</b> Boiss.	Andeko	aboveground	Pain releavers for the eye. Fodder.	1081
<b>Trigonella filipes</b> Boiss.	Yonca	aboveground	Fodder	1351
<b>Trigonella mesopotamica</b> Hub.-Mor.	Andeko	aboveground	Pain releavers for the eye/fodder	1350
<b>Trigonella monantha</b> C.A.Mey. subsp. <b>monantha</b>	Yonca	aboveground	Fodder	1080
<b>Trigonella monspeliaca</b> L.	Yonca	aboveground	Fodder	1352
<b>Trigonella spruneriana</b> Boiss. var. <b>spruneriana</b>	Yonca	aboveground	Fodder	1073
<b>Triticum dicoccoides</b> (Koern.) Koern.	Ceheye Reş	aboveground	Fodder	1118/b
<b>Turgenia latifolia</b> (L.) Hoffm.	Çeplik, Karaheci	fruit & leaves	Fodder/ release the pains on the babies	1455

Table 1. (Continued)

<b>Vaccaria pyramidata</b> Medik. var. <b>oxydonta</b> (Boiss.) D.Zohary	Reşşek	aboveground	fodder	1137
<b>Vicia anatolica</b> Turrill	Collikey Kuçika Colpisik	aboveground	Fodder	1083/a.
<b>Vicia sativa</b> L. subsp. <b>nigra</b> (L.) Ehrh. var. <b>segetalis</b> (Thunell.) Ser. ex DC.	Collikey Risey	aboveground	Fodder	1084/a
<b>Vicia sativa</b> L. subsp. <b>nigra</b> (L.) Ehrh. var. <b>nigra</b>	Collikey Maran	aboveground	Fodder	1269/b
<b>Vicia sativa</b> L. subsp. <b>sativa</b>	Collikey Hespa	aboveground	Fodder	1328
<b>Ziziphora tenuior</b> L.	Hırpkesen	aboveground	Food	1378

#### 4. Conclusions

The uses of plants among rural area are inevitable because it is traditional way from past. In the region, the ethnobotanical knowledge has not been recorded properly up to date and by the time it has been disappear. We have observed that the elder people has valuable information on the uses of plants. With the accurate ethnobotanical surveys, each of the plant species should be studied in detail.

It is observed that the uses of plants among people is obtained by try-mistake methods. Therefore, the interaction of people with the plants has been increasing over time. The new generations are not interested to plants as elder people. According to survey results, the uses of plants can be categorised as follows (Table 2).

Table 2. The uses manner of plants of Kalecik mountain, Şanlıurfa, SE Anatolia

Tablo 2. Kalecik Dağı bitkilerinin kullanım şekilleri, Şanlıurfa, GD Anadolu

Uses of plant (category)	The number of plants	%
food	38	16
medicinal	37	16
fodder	32	13
ornamental	5	2
broom	5	2
fuel	5	2
dying	4	2
child's play	3	1
indicator	3	1
harmful	11	5
others	95	40
Total	238	100

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