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# Traditional Medicinal Plants of K. Maras (Turkey)

Sengul Karaman and Yusuf Ziya Kocabas

This paper presents a list of some medicinal and aromatic plants in the K.Maras province of Turkey. During the ethnobotanical survey of 88 plants belonging to 47 families were obtained in the period of 1999. It has been found that these plants are mostly used for antiseptic, diuretic, stomach and wound.

Key words: Folk medicine, medicinal plants, K.Maras, Turkey

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#### Introduction

Today there is a much renewed interest in searching of the plant kingdom for new medicines, agrochemicals and other marketable products. Many of the companies and institutions are involved in this new search and are using ethnobotanical information as the clue, to which plants are prime candidates for further screening and chemical analyses (Prance,1991). Plants used for traditional medicines contain a wide range of substances to treat chronic as well as infectious diseases. The substances that can either inhibit the growth of micro organisms or kill them are considered for developing new drugs for treatment of various infectious diseases. Ethnobotany has recently been received much attention is science parts of the world and particularly in developing countries.

Herbal medicines have been improved in developing countries, as an alternative solution to health problems and costs of pharmaceutical products (Nimri et al., 1999). Modern pharmacopoeia still contains at least 25 % drugs derived from plants. China, India, Sri Lanka and few other countries have official health care delivery systems. Herbal medicines have occupied an important position in India and China. Turkey has a great potential due to existing plant diversity in its natural flora and very distinct forms of primitive cultivars and land races (Tan, 1992; Sezik, 1991). In Turkey more than 500 plant (totally 10000 plants) species are used as medicinal and aromatic plants. Especially native people are still using the long traditional medicines. The Aim of this study was to carry out an ethnopharmacological survey which would enable a preliminary classification of the plants employed in traditional medicine

#### Materials and Methods

The research materials consist of plant specimens which were collected during the field studies of K.Maras provinces a different vegetation periods in 1999. Plant materials were deposited at department of Biology, Faculty of Science, University of K.S.U. The identification of specimens was carried out using Flora of Turkey (Davis,1982).

The research area in K. Maras, in South East Mediterranean Region, (altitude 37° 36'N and longitude 37° 56' E and 568m above sea level) covered 23 forests and mountain villages. Our ethnopharmacological survey included Baskonus (1800m), Cimen (2300m) and Ahirdagi (2100m) mountains which are the highest points in area. The public survey was conducted in vegetation period of March-October.

Three main vegetation types can be distinguished in the study area: Macchie (from 500 to 980m), Forest (From 600 to 1800m and Steppe vegetation (mostly found just above the timb erline at 1900m and at 1600m in the clearing forest) (Turkmen and Duzenli, 1998). The main characteristic of this area are dry summer, warm and rainy winters. The seasonal precipitation regimes during the year is as fallow; winter, spring, autumn and summer. It is a typical first variant of the East.

Some of the medicinal plants used in this area, have not been studied for their detailed antimicrobial and medicinal effects. This survey may assist the evaluation of medicinal plants before the implementation of any critical tests.

#### Results and Discussion

This survey includes 88 plants representing 47 families. It was found that usually local plants were used for the treatment. Methods of preparation and uses were similar for many plants; tea, powder, or decoction (after boiling) from some parts of plants like root, fruit, seed and leaf. These plants were frequently used as a single and sometimes in mixture form.

Table 1 summarizes the data regarding 88 species claimed to have medicinal properties. The methods of preparation and use of the plant part employed are mentioned by Lipp(1989). References concerning similar uses and pharmacological evidence are listed for some species.

The plants with a wider geographical distribution were used by most native people in different areas. Most of the plants used were antiseptic (14 species), diuretic (27 species), stomach ache (27 species) and wound (14 species).

Table	1: Plant	used in	Folk	medicine	in	K.Maras

Sample	Family; botanical name	Local name	Part Used	Claimed therapeutic uses
number	•			
1	Anacardiaceae; Rhus coriaria	Sumak	Fruit	Antiseptic (Nimri <i>et al.</i> 1999)
2	Anacardiaceae; Cotinus coggyria	Duman ağaci	Leaf and bark	Antiseptic, antipyretic
3	Anacardiaceae; Pistacia terebinthus	Menengiç	Gum	Antiseptic, wound healing
4	Apiacae; Eryingium campestre	Bo <b>ğ</b> a dikeni	Leaves and root	Antiseptic, wound healing, diüretic, appetizing
5	Apiaceae; Petroselinum crispum	Maydanoz	Leaf	Diüretic, anti hypertension (Ceylan, 1987)
6	Asteraceae; Artemisia absinthium	Pelin otu	Leaf, flovver	Antipyretic, wound healing, stomach
7	Asteraceae; Chardinia orientalis	Çağla otu	Whole plant	Stomach
8	Asteraceae; Cichorium inthybus	Radika	Leaf, flower	Antipyretic, stomach, diüretic
9	Asteraceae; Helichrysum plicatum	Altin çiçe <b>ğ</b> i	Flower	Urinary dysfunction, Antifungal (Nakipoglu and Otan, 1994)
10	Asteraceae; Taraxacum microcephaloides	Hindiba	Leaf	Stomach, diüretic
11	Berberidaceae; Berberis crataegina	Kadin tuzlu <b>ğ</b> u	Root	Diabetes
12	Betulaceae; Alnus glutinosa	Kizil a <b>ğ</b> aç	Leaf	Diüretic
13	Boraginaceae; Alkanna orientalis	Havaciva otu	Root	Menstruation dysfunction
14	Brassicaceae; Capsella bursa-pastoris	Çoban çantasi	Whole plant	Menstruation dysfunction
15	Caryophyllaceae; Saponaria officinalis	Sabun otu	Body, root	Rheumatism, respiratory regulation, diüretic
16	Convolvulaceae; Convolvulus arvensis	Tarla sarma <b>ş</b> i <b>ğı</b>	Root	Stomach
17	Crassulaceae; Sedum album	Dam koru <b>ğ</b> u	Leaf	Wound healing
18	Cucurbitaceae; Ecballium elaterium	Esek hiyari	Seed	Diüretic, sinusitis
19	Cupressaceae; Juniperus communis	Ardiç	Seed	Urinary dysfunction
20	Cupressaceae; Juniperus oxycedrus	Ardiç	Resin	Antiseptic
21	Cuscutaceae; Cuscuta epithymum	Çin saçi	Body	Stomach
22	Elaeagnaceae; Elaeagnus angustifolia	l <b>ğ</b> de	Fruit	Antipyretic, diüretic
23	Equisetaceae; Equisetum arvense	At kuyru <b>ğ</b> u	Body	Stomach, diŭretic, urinary dysfunction, wound healing, (Erol and Tuzlaci, 1996)
24	Euphorbiaceae; Euphorbia macrolada	Sütle <b>ğ</b> en	Seed, latisfer	Stomach, jaundice
25	Fabaceae; Glycyrhiza glabra	Meyan	Root	Respiratory regulation,
26	Fabaceae; Ononis spinosa	Kayiskiran	Whole plant	Analgesic, antiseptic, stomach, urinary dysfunction
27	Fagaceae; Quercus infectoria	Mese	Mazi	Stomach
28	Geraniaceae; Pelargonium endlicharianum	Solucan otu	Flower, leaf	Anthelmintic
29	Hypericaceae; Hypericum perforatum	Binbirdelik otu	Flower	Sedative, appetizing, cold, Wound healing, diuretic

## Karaman and Kocabas: Traditional Medicinal Plants of K. Maras (Turkey)

Capparridaesea, Capparis spinose   Kaleira   Buds   Exomach, apparating, in-immairism   Antique   Antiqu					(Ahmad <i>et al.</i> , 1998).
Labiesze, Martibusm vulgare Digital Control Labiesze, Martibusm vulgare Control Contro		Capparridaceae; Capparis spinosa	Kebere	Buds	Stomach, appetizing, rheumatism
Lakinstee, Melissa officinalis  Oğul cru Leives  Antiseptic, cold, deberes, enrippesmodo Cogunen of Kinol, 1992)  Lakinstee, Morannia francosa  Adal (sal)  Lakinstee, Salvannia francosa  Adal (sal)  Lakinstee, Morannia francosa  Adal (sal)  Adal (sal)  Lakinstee, Morannia fra					
Labisatas, Mentha longficia   Narva   Whole plant   Antiseptic, stemach, commentive (Tansi and Czguven, 1995 )	32	Labiatae; Marrubium vulgare	İt sineği	Flower, leaves	
Labiezae, Marcha longrichie   Name   Whole plant   Arrüsperio, extemach, commanism (Crais and Caguvaen, 1996 )	33	Labiatae; Melissa officinalis	Oğul otu	Leaves	Antiseptic, cold, diabetes, antispasmodic
Labitato, Micromenia fruticosa Tag nareai Moha plant Labitato, Micromenia fruticosa Reylan Labitato, Commun basilicum Reylan Ada gow Labitato, Richard Marchadum Ada gow Labitato, Salvia virgitat Labitato, Salvia virgitat Labitato, Salvia virgitat Labitato, Salvia virgitat Labitato, Tuturium chamedyre Reylan Labitato, Carlor Carlor Reylan Labitato, Carlor Reylan Labit	34	Labiatae: Mentha longifolia	Nane	\Mhole plant	
Labitate, Micromete frutoces   Tay names   Whole plant   Carminative, Stamach, Appetiting (Cark et al., 1991 )				,	
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41         Labitaties, Sidenties syriaca         Ada gay         Leaves         Wound palant         Dürance, cough (Earer et al., 1996)           43         Labitates, Teutrium chameadys         Kisa mahmut         Flowers         Stomach, admonitory           44         Labitates, Teutrium polium         Per yaveari         Flowers         Appeating, a faither (Natasyan et al., 2000)           46         Labitates, Thymus kotschyanus         Kekik         Whole plant         Antiseptic, sedanve, difrectic, sessanditro (§ and Oran, 1994)           47         Labitates, Zaphora dinopodiodes         Kir namesi         Labitates, Tammus sylvius         Kekik         Whole plant         Antiseptic, sedanve, difrectic, sparnditro (§ and Oran, 1994)           48         Lilliaceae, Allium setruum         Sammak         Sad         Appeating, and Ap					
Labistae, Sudarnia myrisoa  43 Labistae, Tourrium holium  44 Labistae, Tourrium holium  45 Labistae, Tourrium holium  46 Labistae, Tourrium kensedys  46 Labistae, Thymus spyleus  46 Labistae, Thymus spyleus  46 Labistae, Thymus spyleus  47 Labistae, Thymus spyleus  48 Liliaceae, Allium ospa  48 Liliaceae, Allium ospa  48 Liliaceae, Allium ospa  49 Liliaceae, Allium ospa  40 Moraceae, Nocum album  40 Moraceae, Allium ospa  40 Moraceae, Nocum ospa  40 Moraceae, Allium ospa					
Labistate, Taucrium pollum Per yesseni Flowers Stomach, admonitory 45 Labistae, Taucrium pollum Per yesseni Flowers Appetago, difred (Natayan et al., 2000) 46 Labistae, Thymus kotschyanus Kekik Whole plant 47 Labistae, Taymus kotschyanus Kekik Whole plant 48 Labistae, Taymus kotschyanus 48 Lillaceae, Allium capa 49 Soğlan 49 Lillaceae, Allium capa 40 Lillaceae, Allium sathum 50 Lillaceae, Allium sathum 60 Lillaceae, Allium sathum 61 Lillaceae, Allium per yesteriblis 62 Lorinateoses, Visiona abum 63 Malvaceae, Holiscus esculanum 64 Moraceae, Flowers abum 65 Moraceae, Flowers abum 65 Moraceae, Flowers abum 66 Moraceae, Morus aba 67 Moraceae, Morus aba 68 Pesperiaceae, Pesperiam 69 Pespeveraceae, Flowers ingra 69 Pespeveraceae, Flowers ingra 60 Moraceae, Morus aba 61 Moraceae, Morus aba 62 Pespeveraceae, Flowers ingra 63 Pespeveraceae, Flowers ingra 64 Moraceae, House mascula 65 Moraceae, Morus aba 66 Moraceae, Morus aba 67 Pespeveraceae, Flowers ingra 68 Pespeveraceae, Flowers ingra 69 Pespeveraceae, Flowers ingra 60 Pespeveraceae, Flowers ingra 61 Pespeveraceae, Flowers ingra 62 Pespeveraceae, Flowers ingra 63 Pespeveraceae, Flowers ingra 64 Pespeveraceae, Flowers ingra 65 Moraceae, Morus aba 66 Moraceae, Morus aba 67 Pespeveraceae, Flowers ingra 68 Pespeveraceae, Flowers ingra 69 Pespeveraceae, Flowers ingra 60 Pespeveraceae, Flowers ingra 61 Pespeveraceae, Flowers ingra 62 Pespeveraceae, Flowers ingra 63 Pespeveraceae, Flowers ingra 64 Pesperaceae, Flowers ingra 65 Moraceae, Morus aba 66 Moraceae, Morus aba 67 Pespeveraceae, Flowers ingra 68 Pespeveraceae, Flowers ingra 69 Pespeveraceae, Flowers ingra 69 Pespeveraceae, Flowers 60 Pespeveraceae, Flowers 61 Pespeveraceae, Flowers 62 Pespeveraceae, Flowers 63 Pespeveraceae, Flowers 64 Pespeveraceae, Flowers 65 Pespeveraceae, Flowers 66 Pespeveraceae, Flowers 67 Pespeveraceae, Flowers 68 Pespeveraceae, Flowers 69 Pespeveraceae, Flowers 69 Pespeveraceae, Flowers 69 Pespeveraceae, Flowers 60 Pespeveraceae, Flowers 60 Pespeveraceae, Flowers 60 Pespeveraceae, Flowers	42			Whole plant	•
Lebistaes, Flavorium polium   Par yassami   Flowers   Appettaing, differio (Rustayam et al., 2000)					
46         Labitates, Taryhrous collegodiodes         Kelik         Whole plant         Antiseptic, seatomuch, appetation, gliretic, spasmolitic (§ and Oran, 1994)           47         Labitates, Zizyhora cilnopodiodes         Kin nanesi         Lisaosea, Allium oega         Soğn         Sed         Appetting, difreto           48         Liliacosea, Allium setirum         Samisak         Sed         Appetting, difreto           50         Liliacosea, Flamurus spectabilis         Cirs         Roc         Soabies           51         Liliacosea, Justina strium         Simbil         Bulb         Wound healing           52         Loranthacosea, Viscum abum         Ökse cru         Lef         Anti hypertension, cough           54         Microcase, Florus carica         Incir         Fruit         Diabettes, cound healing           54         Microcasea, Morus signa         Basez dut         Leaf         Antipyerter, cultivers           56         Moracosea, Morus nigra         Kara dut         Fruit, roct         Respiratory regulation, diebetes, fever (Almad et al., 1998)           66         Moracosea, Morus nigra         Kara dut         Fruit, roct         Respiratory regulation, diebetes, fever (Almad et al., 1998)           67         Clascasea, Classa serviral et al., antipyer princing fruit et al.         Respiratory regulation, et al. </td <td>44</td> <td></td> <td>Par yavsani</td> <td>Flovvers</td> <td></td>	44		Par yavsani	Flovvers	
Lebister, Trimyrus spyleuis   Kelik   Whole plant   Antisepto, sedative, gibraro (§ and Oten, 1994)	45			Whole plant	
Labitates, Ziziphora clinopodiodes   Kir nanesi   Leswis Antiseptic, stomach, appetiting	46		Kekik		
Liliaceae; Allium sativum   Salmask   Seid   Antiseptic, anti hypertension, heart regulation, appetizing   Sobiles	47	Labiatae; Ziziphora dinopodioides	Kir nanesi	Leaves	
Book   Brandward Spectabilis   Ciris   Book   Soabies	48	Liliaceae; Allium cepa	Soğan	Seed	Appetizing, diüretic
Elilicoses   Hywointhus orientelis   Sümbül   Bulb   Wound healing	49	Liliaceae; Allium sativum	Sarimsak	Seed	Antiseptic, anti hypertension, heart regulation, appetizing
Continueses; Viscum album   Continueses; Viscum album   Continueses; Viscum album   Continueses; Continuese	50	Liliaceae; Eremurus spectabilis	Çiris	Root	Scabies
Barrya	51	Liliaceae; Hyacinthus orientalis	Sümbül	Bulb	Wound healing
Moracese   Flous carics   Moracese   Morac			Ökse otu	Leaf	Anti hypertension, cough
Beyze dut   Leaf   Antipyretic, diùretic		Malvaceae; Hibiscus esculantum	Barnya	Fruit	Diabetes, wound healing
66         Moracosas; Morus nigra         Kará dut         Fruit, roct         Respiratory regulation, diabetes, fewer (Ahmad er al., 1998)           67         Oleaceas: Olea europaea         Zeytin         Leaf kark         Antipyretic, appetizing, depressor (Zeybek and Zeybek, 1994)           68         Pasoniacose, Pasonia masoula         Ayi gilü         Root         Cough, sedative, epilepsy, respiratory regulation           60         Papaveracose, Papaver hoes         Gelincik         Rower         Antipyretic, stomach, appetizing, depressor (Zeybek and Zeybek, 1994)           61         Plancacase, Papaver hoes         Gelincik         Rlower         Antipyretic, stomach, appetizing, depressor (Zeybek and Zeybek, 1994)           61         Plancacase, Papaver hoes         Gelincik         Rlower         Antipyretic, stomach, appetizing, depressor (Zeybek and Zeybek, 1994)           62         Plantaginacose, Plantago major         Karaot         Leaf         Antipyretic, stomach, appetizing, depressor (Zeybek and Zeybek, 1994)           63         Plantaginacose, Platarus orientalis         Cina         Bark         Antiseptic (Nakipoglu and Otan, 1994)           64         Poacose, Zea mays         Misir         Tuft, seed oil         Antiseptic (Nakipoglu and Otan, 1994)           65         Poacose, Purlua cierase         Semiz otu         Body         Düretic <t< td=""><td></td><td>Moraceae; Ficus carica</td><td>İncir</td><td>Fruit</td><td>Respiratory regulation, wound healing (Nimri et al. 1999)</td></t<>		Moraceae; Ficus carica	İncir	Fruit	Respiratory regulation, wound healing (Nimri et al. 1999)
Cleaceae: Olea europaea   Zeytin   Lasf, bark   Antipyretic, appetizing, depressor (Zeybek and Zeybek, 1994)					
Papeniaceaee, Paponia mascula   Ayi güü   Root   Cough, sedative, apilepsy, respiratory regulation		Moraceae; Morus nigra	Kara dut	Fruit, root	Respiratory regulation, diabetes, fever (Ahmad et al., 1998)
Papaveraceae; Fumaria officinalis   Sphirare   Flower, root   Antipyretic, stomach, appetizing, diúretic					
Gelincik Flower Respiratory regulation Finaceae, Plans brutia Kizil çam Resin Analgasic Plantaginaceae, Planta					
Financeae, Pinus brutia Kizil çam Resin Analgesic Pinus brutia Karaot Leaf Wound healing (Bown, 1995)  Plattanaceae, Platanus orientalis Çinar Bark Antiseptic (Nakipogiu and Otan, 1994)  Rizom Diffratio Poaceae; Zaa mays Misir Tuft, seed oil Analgesic, diffratio Prulia ceae; Portula oleracea Semiz otu Body Anthelmintic, diffratio Pruliaceae; Punula pulgaris Quha cjoeg Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Body Diffratio Pruliaceae; Punula grantum Nar Georgia Prulia Georgia Prulia Georgia Prulia Georgia Pruliaceae; Punula grantum Nar Georgia Pruliaceae; Punula grantum Nar Georgia Pruliaceae; Punula grantum Nar Georgia Pruliaceae; Punula grantum P		· · · · · · · · · · · · · · · · · · ·	-		· · · · · · · · · · · · · · · · · · ·
62     Plantaginaceae; Platanus orientalis     Karaot     Leaf     Wound healing (Bown, 1995)       63     Platanaceae, Platanus orientalis     Çinar     Bark     Antiseptic (Nakipoglu and Otan, 1994)       64     Poaceae; Cydonia dactylon     Köpek digi ayriği     Rizom     Düretic       66     Poaceae; Zea mays     Misir     Tuft, seed oil     Analgesic, düretic       66     Portulaceae; Portula oleracea     Semiz otu     Body     Düretic       67     Primulaceae; Primula vulgaris     Çuha çiçəği     Body     Düretic       68     Punicaceae; Punica granatum     Nar     Fruit     Heart regulation, anthelmintic       69     Ranunculaceae; Alonis eastivalis     Kekliki gözü     Flowers     Heart regulation, düretic, respiratory regulation       70     Rhamnaceae; Palirus spina-christi     Karaçali     Fruit     Stomach, diüretic, respiratory regulation       71     Rosaceae; Armydalus communis     Badem     Seed oil     Diabetes, respiratory regulation,       72     Rosaceae; Cerasus mahalep ver mahalep     Mahlep     Seed oil     Diabetes, respiratory regulation,       73     Rosaceae; Crataegus monogyna     Alirç     Leaves, flowers     Raspiratory regulation, stomach       76     Rosaceae; Crataegus monogyna     Alirç     Primulaceae; Nita viruli     Primulaceae; Nita viruli					
63         Platanaceae; Platanus orientalis         Çiner         Bark         Antiseptic (Nakipoglu and Otan, 1994)           64         Poaceaea; Zoa mays         Misir         Tuft, seed oil         Analgesic, diüretic           66         Portulaceae; Portula oleracea         Semiz oru         Body         Anthelmintic, diüretic           67         Primulaceae; Primula vulgaris         Çuha ciçeği         Body         Düretic           68         Punicaceae; Punica granatum         Nar         Fruit         Heart regulation, anthelmintic           69         Ranunculaceae; Adonis aestivalis         Keklik gözü         Flowers         Heart regulation, düretic, respiratory regulation           70         Rhamnaceae; Palirurus spina-christi         Karaçali         Fruit         Stomach, düretic, respiratory regulation           71         Rosaceae; Cerasus wulgaris         Marine         Seed oil         Rheumatism           72         Rosaceae; Cerasus wulgaris         Migne         Seed oil         Diabetes, respiratory regulation,           73         Rosaceae; Cerasus wulgaris         Mysne         Seed oil         Diabetes, respiratory regulation,           74         Rosaceae; Cerasus wulgaris         Ayva         Seeds         Respiratory regulation, stomach           75         Rosaceae; Geum urbanu					
64         Poaceae; Odonia dactylon         Kõpek dişi ayriği         Rizom         Düretic           65         Poaceae; Zea mays         Misir         Tuft, seed oil         Analgesic, diüretic           66         Portulaceae; Portula oleracea         Semiz oru         Body         Düretic           67         Primulaceae; Primula vulgaris         Çuha çiçeği         Body         Düretic           68         Punicaceae; Punica granatum         Nar         Fruit         Heart regulation, anthelmintic           69         Ranunculaceae; Adonia gestivalis         Keklik gözü         Flowers         Heart regulation, anthelmintic           70         Rhamnaceae; Paliurus spina-christi         Karaçali         Fruit         Stomach, düretic, respiratory regulation           71         Rosaceae; Carasus mahelep var mahelep         Mishlep         Seed oil         Diabetes, respiratory regulation,           72         Rosaceae; Carasus vulgaris         Vişne         Seed oil         Diabetes, respiratory regulation,           74         Rosaceae; Carasus mahelep var mahelep         Alıç         Leaves, flowers         Analgesic, sedative, anti hypertension, heart regulation. ( Baytop, 1984 )           75         Rosaceae; Gelem urbanum         Bit oru         Rosaceae; Amayala vulgaris         Ville regulation         Respiratory regulation					
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66         Portulaceae; Portula oleracea         Semiz otu         Body         Anthelmintic, diüretic           67         Pmulaceae; Primula vulgaris         Quha çiçêji         Body         Diüretic           68         Punicaceae; Punica granatum         Nar         Fruit         Heart regulation, anthelmintic           69         Ranunculaceae; Adonis aestivalis         Keklik gözü         Flowers         Heart regulation, diüretic           70         Rhamnaceae; Paliurus spina-christi         Karaçali         Fruit         Stomach, diüretic, respiratory regulation           71         Rosaceae; Amygdalus communis         Badem         Seed oil         Diabetes, respiratory regulation,           72         Rosaceae; Cerasus mahalep var.mahalep         Mahlep         Seed oil         Diabetes, respiratory regulation,           73         Rosaceae; Cerasus wulgaris         Vişne         Seed oil         Diabetes, respiratory regulation,           74         Rosaceae; Cerasus wulgaris         Aliç         Leaves, flowers         Anglesic, sedative, anti hypertension, heart regulation. ( Baytop, 1984 )           75         Rosaceae; Ordonia oblonga         Ayva         Seed seed         Respiratory regulation,           76         Rosaceae; Bosa canina         Kusburnu         Fruit         Diüretic (Sayar et al., 1995 ) <tr< td=""><td></td><td></td><td></td><td></td><td></td></tr<>					
67         Primulaceae; Primula vulgaris         Çuha çiçeği         Body         Diüretic           68         Punicaceae; Punica granatum         Nar         Fruit         Heart regulation, diüretic           69         Ranunculaceae; Adonis aestivalis         Keklik gözü         Flowers         Heart regulation, diüretic, respiratory regulation           70         Rhamnaceae; Adonis aestivalis         Karaçali         Fruit         Stomach, diüretic, respiratory regulation           71         Rosaceae; Carasus mahalep var mahalep         Mahlep         Seed oil         Diabetes, respiratory regulation,           72         Rosaceae; Carasus wulgaris         Mahlep         Seed oil         Diabetes, respiratory regulation,           73         Rosaceae; Crataegus monogyna         Aliç         Leaves, flowers         Analgesic, sedative, anti hypertension, heart regulation. (Baytop, 1984)           75         Rosaceae; Cydonia oblonga         Ayva         Seeds         Respiratory regulation, stomach           76         Rosaceae; Geum urbanum         Bit otu         Fruit         Diüretic (Sayar er al., 1995)           78         Rosaceae; Senguisorba minor         Küçük çayir düğmesi         Whole plant         Appetizing           80         Scrophulariaceae; Verbascum infidelium         Yavşan otu         Flower         Respiratory regula					
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	88	Zygophyllaceae; Tribulus terrestris	Demir dikeni	Whole plant	Heart regulation, diuretic ( Ahmad et al., 1998 )

Because this area has different phytogeographic region, Irano-Turanian and Mediterranean, it has rich biological resources. Recently, the obtaining of medicinal plants, shown a remarkable increase in the use of drug, spice and drink industry. This situation results in narrowing of the species, even to the danger d extinction. This study agrees with the reports of Tan (1992), that transfer of these plant genetic resources to future generations, can only be possible by preserving them. In order to keep their existence it is essential to use consciously and would be cultivated medicinal and aromatic plants.

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