

FOLK MEDICINAL PLANTS OF TRABZON (TURKEY)

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SUMMARY

Folk medicinal plants of Trabzon (Turkey) were investigated. According to the results of the identification of the specimens collected between July 1992- June1993, it has been found that 67 species recorded from 88 different places are being used as folk medicine. Among them 42 species are wild and 25 species are cultivated plants. These are listed in the text according to their usage in therapy. The folk medicinal plants are mostly used for the treatment of bronchitis, rheumatism, hemorrhoid, diabetes, gastrointestinal disorders, sprains, muscle pains and abscesses.

Key words: Trabzon, folk medicine

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Trabzon is one of the cities in the northern part of Turkey on the Black Sea coast. In the mountainous area there are numerous small settlements and some of them don't have modern and sufficient health service.

In this study the plants used as folk medicine in Trabzon region were investigated.

MATERIAL AND METHOD

During this study the information about the usage of the plants have been obtained from the people who live in the visited places.

The plants collected from the investigation area between July 1992- June 1993, have been prepared as herbarium specimens and identified mainly using "Flora of Turkey and the East Aegean Islands" (1) and the other references (2,3). All the specimens were collected by A.Yazıcıoğlu and they are kept in the Herbarium of the Faculty of Pharmacy, University of Marmara (MARE). Their records are given below:

MARE	3801	Bengisu köyü, 200m,12.07.1992
"	3802	Bengisu köyü, 200m,12.07.1992
"	3804	Bengisu köyü, 200m,12.07.1992
"	3809	Bengisu köyü, 170m,12.07.1992
"	3812	Akçaabat,Mersin köyü, 100m,14.07.1992
"	3819	Akçaabat,Mersin köyü, 25m,14.07.1992
"	3820	Akçaabat,Mersin köyü, 150m,14.07.1992
"	3832	Sürmene, s.l.,18.07.1992
"	3835	Akçaabat, 300m,21.07.1992
"	3836	Akçaabat, 300m,21.07.1992
"	3840	Akçaabat, 300m, 21.07.1992
"	3853	3 km. from Maçka to Trabzon, 310m,29.07.1992
"	3855	Maçka, 350m, 29.07.1992
"	3856	Maçka-Trabzon, 305m,29.07.1992
"	3860	Trabzon,Kuruçeşme Mahallesi, 270m, 31.07.1992
"	3861	Trabzon,Erdoğdu Mahallesi, 30m,02.08.1992
"	3862	Trabzon,University campus, 10m, 03.08.1992
"	3867	Akçaabat,Salacık köyü-Çatalzeytin köyü, 100m, 03.08.1992
"	3886	Trabzon,University campus,10m,12.08.1992
"	3887	Of-Rize, s.l.,12.08.1992
"	3900	Gümüşhane-Maçka, 1400m,18.08.1992
"	3904	Akçaabat,Işıklar köyü, 1700m, 22.08.1992
"	3905	Akçaabat,Çayırbağı yaylası,1870m,21.08.1992
"	3911	Akçaabat,Çayırbağı yaylası, 1870m, 21.08.1992
"	3912	Akçaabat,Haçkaobası yaylası, 1750m, 21.08.1992
"	3915	Maçka,İspandomoz yaylası, 1500m,28.08.1992
"	3931	Sürmene,Çamburnu,50m,26.04.1993
"	3933	Sürmene,Çamburnu,100m,26.04.1993
"	3937	Sürmene,Çamburnu, 100m,26.04.1993
"	3939	Sürmene,Kastel köyü-Yalıbaşı köyü, 20m, 26.04.1993
"	3942	Akçaabat,Söğütlü köyü, s.l.,26.04.1993
"	3946	Çaykara,Yeşilalan köyü, 570m,27.04.1993
"	3947	Çaykara,Yeşilalan köyü, 570m,27.04.1993
"	3948	Çaykara,Yeşilalan köyü, 570m,27.04.1993

MARE	3949	Çaykara, Yeşilalan köyü, 570m, 27.04.1993
"	3952	Çaykara, Yeşilalan köyü, 570m, 27.04.1993
"	3955	Maçka, Yazlık köyü, 750m, 29.04.1993
"	3956	Trabzon, Erdođdu Mahallesi, 100m, 30.04.1993
"	3957	Trabzon, Erdođdu Mahallesi, 100m, 30.04.1993
"	3959	Trabzon, Erdođdu Mahallesi, 100m, 30.04.1993
"	3960	Trabzon, Erdođdu Mahallesi, 100m, 30.04.1993
"	3961	Maçka, İspandomez yaylası, 1500m, 28.08.1992
"	3962	Of, 100m, 29.05.1993
"	3963	Araklı, Bereketli köyü, 100m, 29.05.1993
"	3966	Trabzon, Erdođdu Mahallesi, 100m, 29.05.1993
"	3967	Hayrat, Gülderden köyü, 170m, 29.05.1993
"	3968	Hayrat, Balaban köyü, 360m, 29.05.1993
"	3969	Of, Kiyıcık köyü-Doğançay köyü, 150m, 29.05.1993
"	3970	Hayrat, Pazarönü köyü-Balaban köyü, 350m, 29.05.1993
"	3972	Akçaabat, Mersin köyü, s.l., 30.05.1993
"	3973	Akçaabat, Mersin köyü, 150m, 30.05.1993
"	3974	Akçaabat, Darıca köyü, 200m, 30.05.1993
"	3975	Akçaabat, Mersin köyü, s.l., 30.05.1993
"	3977	Akçaabat, Mersin köyü, 150m, 30.05.1993
"	3978	7 km. from Akçaabat to Trabzon, s.l., 03.06.1993
"	3982	Şalpazarı, Acısu köyü, 380m, 03.06.1993
"	3986	Şalpazarı, Simenli köyü, 950m, 03.06.1993
"	3989	Şalpazarı, Simenli köyü, 1000m, 03.06.1993
"	3991	Sürmene, Dirlik köyü-Ormanseven köyü, 310m, 05.06.1993
"	3993	Sürmene, Dirlik köyü-Ormanseven köyü, 310m, 05.06.1993
"	3995	Trabzon, Fatih Mahallesi, 40m, 27.06.1993
"	3996	Trabzon, Fatih Mahallesi, 40m, 27.06.1993
"	3998	Çaykara, Üzungöl, 1230m, 29.06.1993
"	4000	Çaykara, Şekersu yaylası, 2300m, 29.06.1993
"	4003	Çaykara, Şekersu yaylası, 2300m, 29.06.1993
"	4004	Çaykara, Şekersu yaylası, 2300m, 29.06.1993
"	4006	Araklı, Bahçecik köyü, 1560m, 30.06.1993
"	4007	Araklı, Bahçecik köyü, 1560m, 30.06.1993
"	4008	Arsin, s.l., 01.07.1993
"	4009	Akçaabat, Nefsipulathane Mahallesi, s.l., 02.07.1993
"	4010	Akçaabat, Nefsipulathane Mahallesi, s.l., 02.07.1993
"	4011	Akçaabat, Nefsipulathane Mahallesi, s.l., 02.07.1993
"	4012	Trabzon, Fatih Mahallesi, 40m, 02.07.1993
"	4013	Akçaabat, Kavaklı köyü, 150m, 02.07.1993
"	4014	Akçaabat, Yıldızlı köyü, s.l., 02.07.1993
"	4015	Akçaabat, Yıldızlı köyü, s.l., 02.07.1993
"	4016	Akçaabat, Kavaklı köyü, 80m, 02.07.1993
"	4017	Akçaabat, Ağaçalı köyü, 550m, 02.07.1993
"	4019	Akçaabat, Arpacılı köyü, 100m, 03.07.1993
"	4020	Akçaabat, Sertkaya köyü, 500m, 03.07.1993
"	4024	Şalpazarı, Karakaya obası, 1850m, 04.07.1993
"	4029	Trabzon, Erdođdu Mahallesi, 150m, 06.07.1993
"	4030	Trabzon, University campus, 20m, 07.07.1993
"	4031	Trabzon, Erdođdu Mahallesi, 130m, 07.07.1993
"	4032	Şalpazarı, Karakaya obası, 1850m, 04.07.1993
"	4033	Akçaabat, Arpacılı köyü, 300m, 08.07.1993
"	4039	Trabzon, Erdođdu Mahallesi, 150m, 09.07.1993
"	4134	Bengisu köyü, 200m, 25.04.1993

CONCLUSION

According to the results of our study it has been found that 67 species of plants recorded from 88 different places are being used as folk medicine. Among them 42 species are wild and 25 species are cultivated plants. These plants grouped in accordance with their therapeutic activity and local usage are presented below. The cultivated plants are marked with asterisk in the list.

THE CIRCULATION SYSTEM DISEASES

BLOOD PRESSURE REGULATOR:

**Petroselinum crispum* (Miller) A.W.Hill [MARE 3977]

CARDIAC DISTRESS:

Cirsium hypoleucum DC. [MARE 3993]

**Laurocerasus officinalis* Roemer [MARE 3955,3974]

Tragopogon reticulatus Boiss. et Huet [MARE 4000]

PERIPHERAL CIRCULATION DISORDER:

Centaureum erythraea Rafn subsp. *erythraea* [MARE 3819,3862]

Cirsium hypoleucum DC. [MARE 3993]

**Petroselinum crispum* (Miller) A.W.Hill [MARE 3977]

Urtica dioica L. [MARE 3957,4015]

THE DIGESTION SYSTEM DISEASES

CARMINATIVE:

Thymus pseudopulegioides Klokov et Des. [MARE 3915,3998,4004]

DIARRHOEA:

**Juglans regia* L. [MARE 4013]

Rosa montana Chaix subsp. *woronowii* (Lonacz.) Ö.Nilsson [MARE 3970]

DIGESTIVE:

Mentha spicata L. subsp. *spicata* [MARE 3856,3861]

Symphytum longipetiolatum Wickens [MARE 4032]

Thymus praecox Opiz subsp. *skorpilii* (Velen.) Jalas var. *skorpilii* [MARE 4003]

Thymus pseudopulegioides Klokov et Des. [MARE 3915,3998,4004]

ENTEROCOLITIS:

Rosa montana Chaix subsp. *woronowii* (Lonacz.) Ö.Nilsson [MARE 3970]

GASTRIC CARCINOMA:

Malva nicaeensis All. [MARE 3975]

**Solanum tuberosum* L. [MARE 3973]

Urtica dioica L. [MARE 3957,4015]

GASTRIC DISEASES:

- Centaureum erythraea* Rafn subsp. *erythraea* [MARE 3819,3862]
- Mentha spicata* L. subsp. *spicata* [MARE 3856,3861]
- Thymus pseudopulegioides* Klokov et Des. [MARE 3915,3998,4004]
- Urtica dioica* L. [MARE 3957,4015]

HEMORRHOID:

- Equisetum telmateia* Ehrh. [MARE 3801,3982]
- **Ficus carica* L. subsp. *carica* [MARE 3962,4030]
- Rubus hirtus* Waldst. et Kit. [MARE 3820]
- **Solanum melongena* L. [MARE 4012]
- **Tilia rubra* DC. subsp. *caucasica* (Rupr.) V.Engler [MARE 3967,4009]
- Urtica dioica* L. [MARE 3957,4015]

INTESTINAL DISEASES:

- Centaureum erythraea* Rafn subsp. *erythraea* [MARE 3819,3862]
- Urtica dioica* L. [MARE 3957,4015]
- Vaccinium myrtillus* L. [MARE 4024]

INTESTINAL PARASITIC DISEASES:

- Hypericum androsaemum* L. [MARE 3991,4017]
- **Picea orientalis* (L.) Link [MARE 3931]

PEPTIC ULCER:

- Equisetum telmateia* Ehrh. [MARE 3801,3982]
- Malva nicaeensis* All. [MARE 3975]
- **Picea orientalis* (L.) Link [MARE 3931]
- **Solanum tuberosum* L. [MARE 3973]

STOMACHACHE:

- **Aesculus hippocastanum* L. [MARE 3886]
- Bellis perennis* L. [MARE 3946]

THE ENDOCRINE SYSTEM DISEASES

DIABETES:

- Capsella bursa-pastoris* (L.) Medik. [MARE 3959]
- Cirsium hypoleucum* DC. [MARE 3993]
- Fragaria vesca* L. [MARE 3961,3968]
- **Laurocerasus officinalis* Roemer [MARE 3955,3974]
- Laurus nobilis* L. [MARE 4039]
- Mentha spicata* L. subsp. *spicata* [MARE 3856,3861]
- **Morus alba* L. [MARE 3972]
- **Petroselinum crispum* (Miller) A.W.Hill [MARE 3977]
- Plantago major* L. subsp. *major* [MARE 3802,3836,3900]

GOITHER:

- **Juglans regia* L. [MARE 4013]

THE GENITAL SYSTEM DISEASES

APHRODISIAC:

- **Petroselinum crispum* (Miller) A.W.Hill [MARE 3977]

PROSTATITIS:

Achillea millefolium L. subsp. *millefolium* [MARE 3832,3904,4016]

WOMEN'S DISEASES:

Alchemilla barbatiflora Juz. [MARE 3911]

Malva nicaeensis All. [MARE 3975]

THE INFECTION DISEASES

COLD:

Bellis perennis L. [MARE 3946]

**Tilia rubra* DC. subsp. *caucasica* (Rupr.) V.Engler [MARE 3967,4009]

HEPATITIS:

Allium scorodoprasum L. subsp. *rotundum* (L.) Steam [MARE 3952]

Arum italicum Miller [MARE 3963]

**Fraxinus angustifolia* Vahl subsp. *oxycarpa* (Bieb. ex Willd.) Franco et Rocha Afonso

[MARE 4010]

MALARIA:

Centaurea iberica Trev. ex Sprengel [MARE 3867]

MUMPS:

**Laurocerasus officinalis* Roemer [MARE 3955,3974]

THE MUSCULOSKELETAL SYSTEM DISEASES

FRACTURE-DISLOCATION AND INJURY:

Malva nicaeensis All. [MARE 3975]

Malva sylvestris L. [MARE 3855]

**Zea mays* L. subsp. *mays* [MARE 4014]

JOINT CALCIFICATION:

Laurus nobilis L. [MARE 4039]

LUMBAGO:

**Petroselinum crispum* (Miller) A.W.Hill [MARE 3977]

RHEUMATISM:

Alchemilla sintenisii Rothm. [MARE 3986]

Cirsium hypoleucum DC. [MARE 3993]

Erica arborea L. [MARE 3933]

Laurus nobilis L. [MARE 4039]

Malva nicaeensis All. [MARE 3975]

**Olea europaea* L. subsp. *europaea* [MARE 3966]

Parietaria judaica L. [MARE 4031]

**Petroselinum crispum* (Miller) A.W.Hill [MARE 3977]

Ranunculus cappadocicus Willd. [MARE 3937]

Ranunculus kotschyi Boiss. [MARE 3905,3960]

Ranunculus repens L. [MARE 3942,3947]

Sambucus ebulus L. [MARE 3809,3840,3853]

Urtica dioica L. [MARE 3957,4015]

THE NERVOUS SYSTEM DISEASES

THE NERVOUS SYSTEM DISEASES:

Mentha spicata L. subsp. *spicata* [MARE 3856,3861]

THE RESPIRATORY SYSTEM DISEASES

ASTHMA :

**Eriobotrya japonica* (Thunb.)Lindl. [MARE 3804,4134]

Plantago lanceolata L. [MARE 3949]

Plantago major L. subsp. *major* [MARE 3802,3836,3900]

Thymus praecox Opiz subsp. *skorpilii* (Velen.) Jalas var. *skorpilii* [MARE 4003]

Thymus pseudopulegioides Klokov et Des. [MARE 3915,3998,4004]

BRONCHITIS :

Alchemilla barbatiflora Juz. [MARE 3911]

Bellis perennis L. [MARE 3946]

**Pinus sylvestris* L. [MARE 4008]

Rosa montana Chaix subsp. *woronowii* (Lonacz.) Ö.Nilsson [MARE 3970]

Thymus pseudopulegioides Klokov et Des. [MARE 3915,3998,4004]

**Tilia rubra* DC.subsp. *caucasica* (Rupr.) V.Engler [MARE 3967,4009]

LUNG TUBERCULOSIS:

**Ficus carica* L. subsp. *carica* [MARE3962,4030]

**Picea orientalis* (L.) Link [MARE 3931]

Plantago major L. subsp. *major* [MARE 3802,3836,3900]

PNEUMONIA,LUNG ABSCESS AND OTHER LUNG DISEASES:

**Picea orientalis* (L.) Link [MARE 3931]

**Pinus sylvestris* L. [MARE 4008]

Urtica dioica L. [MARE 3957,4015]

SINUSITIS:

Mentha spicata L. subsp. *spicata* [MARE 3856,3861]

TONSILLITIS:

Bellis perennis L. [MARE 3946]

Nasturtium officinale R.Br. [MARE 3978]

Plantago major L. subsp. *major* [MARE 3802,3836,3900]

Sambucus ebulus L. [MARE 3809,3840,3853]

Urtica dioica L. [MARE 3957,4015]

THE SKIN DISEASES

ALLERGY:

Urtica dioica L. [MARE 3957,4015]

ANTIFUNGAL:

Urtica dioica L. [MARE 3957,4015]

BOIL:

- **Allium ampeloprasum* L. [MARE 4018]
- **Allium cepa* L. [MARE 4019]
- Bellis perennis* L. [MARE 3946]
- Plantago lanceolata* L. [MARE 3949]
- Plantago major* L. subsp. *major* [MARE 3802,3836,3900]

BURN:

- **Corylus maxima* Miller [MARE 3860]
- **Laurocerasus officinalis* Roemer [MARE 3955,3974]
- **Malus sylvestris* Miller subsp. *mitis* (Wallr.) Mansf. [MARE 3989,3995]
- Malva nicaeensis* All. [MARE 3975]
- **Picea orientalis* (L.) Link [MARE 3931]
- **Pinus sylvestris* L. [MARE 4008]
- Plantago lanceolata* L. [MARE 3949]
- Sambucus ebulus* L. [MARE 3809,3840,3853]

ECZEMA:

- Arum italicum* Miller [MARE 3963]
- Bellis perennis* L. [MARE 3946]
- Carpinus orientalis* Miller subsp. *orientalis* [MARE 3835]
- Chelidonium majus* L. [MARE 3948]
- Cirsium hypoleucum* DC. [MARE 3993]
- **Cucurbita pepo* L. var. *ovifera* (L.) Bailey [MARE 4033]
- Equisetum telmateia* Ehrh. [MARE 3801,3982]
- Euphorbia helioscopia* L. [MARE 4020]
- Euphorbia oblongifolia* (C.Koch) C.Koch [MARE 3912]
- **Ficus carica* L. subsp. *carica* [MARE 3962,4030]
- **Juglans regia* L. [MARE 4013]
- **Petroselinum crispum* (Miller) A.W.Hill [MARE 3977]
- **Picea orientalis* (L.) Link [MARE 3931]
- Plantago lanceolata* L. [MARE 3949]
- Ranunculus kotschyi* Boiss. [MARE 3905,3960]
- Rosa montana* Chaix subsp. *woronowii* (Lonacz.) Ö.Nilsson [MARE 3970]
- Thymus pseudopulegioides* Klokov et Des. [MARE 3915,3998,4004]
- Urtica dioica* L. [MARE 3957,4015]

ITCH:

- Parietaria judaica* L. [MARE 4031]

URTICARIA:

- Sambucus ebulus* L. [MARE 3809,3840,3853]

WOUND:

- **Allium cepa* L. [MARE 4019]
- Fragaria vesca* L. [MARE 3961,3968]
- **Juglans regia* L. [MARE 4013]
- **Laurocerasus officinalis* Roemer [MARE 3955,3974]
- Malva nicaeensis* All. [MARE 3975]
- **Pinus sylvestris* L. [MARE 4008]
- Plantago lanceolata* L. [MARE 3949]
- Plantago major* L. subsp. *major* [MARE 3802,3836,3900]
- Sambucus ebulus* L. [MARE 3809,3840,3853]
- Urtica dioica* L. [MARE 3957,4015]
- **Zea mays* L. subsp. *mays* [MARE 4014]

THE URINARY SYSTEM DISEASES

DIURETIC:

**Zea mays* L. subsp. *mays* [MARE 4014]

KIDNEY DISEASES:

Plantago major L. subsp. *major* [MARE 3802,3836,3900]

**Punica granatum* L. [MARE 4011]

Urtica dioica L. [MARE 3957,4015]

**Zea mays* L. subsp. *mays* [MARE 4014]

PYELONEPHRITIS:

Equisetum telmateia Ehrh. [MARE 3801,3982]

**Zea mays* L. subsp. *mays* [MARE 4014]

SURGICAL KIDNEY DISEASES(Kidney stone,kidney sand etc.):

Equisetum telmateia Ehrh. [MARE 3801,3982]

**Zea mays* L. subsp. *mays* [MARE 4014]

THE OTHER DISEASES AND USAGE

ANTIPARASITER:

Sambucus ebulus L. [MARE 3809,3840,3853]

ANALGESIC:

Achillea millefolium L. subsp. *millefolium* [MARE 3832,3904,4016]

Hyoscyamus niger L. [MARE 4006]

**Laurocerasus officinalis* Roemer [MARE 3955,3974]

Malva nicaeensis All. [MARE 3975]

Malva sylvestris L. [MARE 3855]

**Olea europaea* L. subsp. *europaea* [MARE 3966]

Papaver pseudo-orientale (Fedde) Medw. [MARE 4007]

Ranunculus kotschyi Boiss. [MARE 3905,3960]

Sambucus ebulus L. [MARE 3809,3840,3853]

**Solanum tuberosum* L. [MARE 3973]

Urtica dioica L. [MARE 3957,4015]

ANEMIA:

Centaureum erythraea Rafn subsp. *erythraea* [MARE 3819,3862]

ANTIPYRETIC:

**Zea mays* L. subsp. *mays* [MARE 4014]

CANCER:

Urtica dioica L. [MARE 3957,4015]

EYE DISEASES:

Bellis perennis L. [MARE 3946]

**Camelia sinensis* (L.) O.Kuntze [MARE 3887]

Hyoscyamus niger L. [MARE 4006]

**Laurocerasus officinalis* Roemer [MARE 3955,3974]

**Solanum tuberosum* L. [MARE 3973]

HAIR DISEASES:

**Ficus carica* L. subsp. *carica* [MARE 3962,4030]

**Juglans regia* L. [MARE 4013]

**Laurocerasus officinalis* Roemer [MARE 3955,3974]

HEMATISCHESSIS:

Ranunculus cappadocicus Willd. [MARE 3937]

INSECT AND BEE BITE:

**Allium cepa* L. [MARE 4019]

**Ficus carica* L. subsp. *carica* [MARE 3962,4030]

NUTRIMENTAL POISONING:

**Cerasus avium* (L.) Moench [MARE 3969]

Malva nicaeensis All. [MARE 3975]

TONIC-NUTRITIOUS:

Allium scorodoprasum L. subsp. *rotundum* (L.) Stearn [MARE 3952]

**Brassica oleracea* L. var. *acephala* DC. [MARE 3956]

Crataegus microphylla C.Koch [MARE 3812]

**Cydonia oblonga* Miller [MARE 3996]

Malva nicaeensis All. [MARE 3975]

Stellaria media (L.) Vill. subsp. *media* [MARE 3939]

Symphytum longipetiolatum Wickens [MARE 4032]

Urtica dioica L. [MARE 3957,4015]

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