

STUDIES ON THE THYSANOPTERA
OF ANTALYA IV. THIRIPIDAE STEPHENS-3*

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SUMMARY

Eight species belong to genus Thrips Linnaeus are viewed.

INTRODUCTION

The most widespread and abundant two species of Thysanoptera, namely, *Thrips tabaci* Lindeman and *Thrips major* Uzel are dealt in this part. The position of *T. major* as a species dwelling in flowers of various trees and shrubs in winter time was analysed by Tunç (1989).

Thrips major Uzel

Material examined: Alanya, 3♂, 12♀, *Jasminum* sp (flowers); 1 ♀ *Lantana camara* (flowers) both, 17.II.1988-Alara, 1♀, *Dianthus caryophyllus* (greenhouse), 17.II.1988-Yeşilköy, 4♀, *Vicia faba* (flowers), 17.II.1988-Kale, 2♀, *Acer* sp (flowers), 24.II.1988-Finike, 4♀, *Amygdalus communis* (flowers); 2♀, *Vicia faba* (flowers), both 24.II.1988-Gazipaşa, 4♀, *Asphodelus* sp (flowers); 7♀, *Calycotome villosa* (flowers); 4♀, *Amygdalus communis*; 10♀, *Calycotome villosa*, all 2.III.1988-Hocalar, 1♀, *Vicia faba* (flowers), 2.III.1988-Göynük, 8♀, *Calycotome villosa*, 23.III.1988-Kumluca, 8♀, *Mercurialis annua*; 3♀, *Citrus sinensis* (flowers); 17♀, *Pyrus elaeagrifolia* (flowers); 1♀, *Pinus pinea* (flowers); 1♀, *Euphorbia* sp, all 23.III.1988-Gebiz, 4♀, *Asphodelus* sp; 1♂, 1♀, *Euphorbia* sp, both 30.III.1988-Tonguçlü, 1♀, *Calycotome villosa* (flowers), 30.III.1988-Abdurrahmanlı, 2♀, *Pyrus elaeagrifolia* (flowers);

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3♀, *Triticum aestivum*, both, 30.III.1988-Nigit, 4♀, *Crateagus*,
 sp (flowers), 30.III.1988-Kumluca, 2♂, 15♀, *Citrus* sp (flowers); 7♀
Pyrus elaeagrifolia (flowers); 6♀, *Chrysanthemum* sp, all 6.IV.1988-Tu
 runçova, 1♀, *Euphorbia helioscopia*; 7♂, 34, *Citrus* sp(flowers),
 both 6.IV.1988-Finike, 2♀, *Acacia cyanophylla* (flowers), 6.IV.1988-
 Mavikent, 12♂ 19♀, *Citrus* sp(flowers), 6.IV.1988-Adrasan, 5♀, *Citrus*
 sp(flowers), 6.IV.1988-Korkuteli, 1♂, *Triticum aestivum* (pre-earring);
 1♂, *Triticum aestivum* (pre-earring), both 13.IV.1988-Aksu, 11♂,
 19♀, *Citrus nobilis deliciosa*(flowers); 5♀ *Rapistrum* sp(flowers);
 1♂ 3♀, *Ranunculus* sp, all 20.IV.1988-Serik, 1♂, *Vicia sativa*(flowers),
 20.IV.1988-Güvercinlik, 2♂, 20♀, *Rosa* sp, 20.IV.1988-Beşkonak, 8♀
Malus communis(flowers); 1♂, 6♀, *Cydonia vulgaris* (flowers), both
 20.IV.1988-Sağırin, 3♀, *Cistus* sp(flowers); 2♂, 3♀ *Cercis siliquastrum*,
 20.IV.1988-Yenice, 1♀, *Hordeum* sp; 1♀, *Colutea* sp, both 5.V.1988
 Yazır(Korkuteli), 1♀, *Prunus avium*, 5.V.1988-Kepez, 26♀, *Citrus*
sinensis; 1♀, *Olea europaea*(flowers), both 5.V.1988-Duraliler, 1♀,
Punica granatum(flowers); 4♂, *Nerium oleander*(flowers) both,
 25.V.1988-Göynük, 1♀, *Vitis vinifera*, 27.V.1988-Beldibi, 1♀, *Daucus*
 sp; 2♂ 5♀, *Citrus limonium*(flowers), both 27.V.1988-Hurma, 3♀,
Paliurus spina-christi(flowers); 2♂, 3♀, *Nerium oleander*(flowers);
 both 27.V.1988-Gölova, 1♀, *Vitis vinifera*, 16.VI.1988-Gömbe, 1♀,
Euphorbia sp, 16.VI.1988-Arif, 1, 2♀, *Clematis* sp, 30.VI.1988-Kuzdere,
 1♀, *Zea mays*; 1♀, *Vitex agnus-castus*, both 15.IX.1988-Turunçova,
 1♀, *Zea mays*, 15.IX.1988-Çolaklı, 1♀, *Arachis hypogaea*, 13.X.1988-
 Tekirova, 1, 3♀, *Rosa* sp; *Prunus persica*, both 27.X.1988-Çolaklı,
 5♂, 13♀, *Eriobotrya japonica*(flowers); 1♀, *Cassia* sp, both 7.XI.1988-
 Mahmutlar, 1♀, 17♀, *Eriobotrya japonica*(flowers); 1♀, *Phaseolus*
vulgaris, both 10.XI.1988-Serapsu, 1♀, *Erica* sp(flowers); 10.XI.1988-
 Okurcalar, 1♀, *Dianthus caryophyllus*, 10.XI.1988-Kale, 9♀, *Eriobotrya*
japonica(flowers); 2♀, *Phaseolus vulgaris*; 1♂, 9♀, *Tagetes* sp; 2♀
Phaseolus vulgaris, all 24.XI.1988-Mavikent, 3♀, *Eriobotrya japonica*
 (flowers), 24.XI.1988-Kemer, 6♀, *Erica* sp, 24.XI.1988-Aşağıkaraman,
 1♂, 5♀, *Eriobotrya japonica* (flowers), 8.XII.1988-Abdurrahmanlar,
 2♂, 3♀, *Eriobotrya japonica*(flowers); 1♂, *Sinapis* sp(flowers), both
 8.XII.1988-Göynük, 5♀, herb, 22.XII.1988-Mavikent, 1♂, *Datura* sp,
 22.XII.1988-Finike, 2♂, 10♀, *Eriobotrya japonica*(flowers), 22.XII.1988-

Varsak, 5 ♀, *Clematis* sp; 6 ♀, *Eriobotrya japonica*(flowers) both 5.1.1989-Hasyurt, 17 ♀, *Eriobotrya japonica*(flowers); 1 ♀, *Vicia faba*; both 19.1.1989-Yazır (Kumluca), 4♂, 17 ♀, *Clematis* sp(flowers), 19.1.1989-Kumluca, 15 ♀, *Euphorbia* sp, 10♀, *Calycotome villosa*, both 19.1.1989-Okurcalar, 6♂, 9 ♀, *Vicia faba*(flower); 6♀, *Eriobotrya japonica* (flowers), both 2.11.1989-Serapsu, 2♀, *Amygdalus communis*(flowers); 1♀, *Dianthus caryophyllus* both 2.11.1989-Mahmutlar, 3♂, 31 ♀, *Eriobotrya Japonica*(flowers); 1♂, 4♀, *Vicia faba*(flowers), both 2.11.1989-Okurcalar 5♀, *Calycotome villosa*(flowers), 2.11.1989-Koyunlar, 1♀, *Prunus persica* (flowers), 2.11.1989-Çakırlar, 2♀, *Euphorbia* sp, 23.11.1989-Geyikbayırı, 4♀, *Amygdalus communis*(flowers), 41♀, *Calycotome villosa*(flowers); 16♀, *Asphodelus* sp, both 23.11.1989-İlca, 4♀, *Amygdalus communis* (flowers), 23.11.1989-Hatıplı, 2♀, *Euphorbia*, 23.11.1989-Yeşilköy, 2♀, *Amygdalus communis*(flowers), 23.11.1989-Topallı, 5♀, *Vicia faba*, 23.11.1989-Düden, 9♀, *Prunus persica*(flowers), 23.11.1989-Hurma, 5♀, *Prunus armeniaca*(flowers); 1♀, *Phlomis armeniaca* (flowers); 8♀, *Prunus domestica*(flowers); 1♂, 6♀, *Citrus* sp(flowers); 4♀, *Vicia faba*; 4♀, *Capsella bursa-pastoris*; 2♀, *Platanus orientalis*(flowers); 6♀, *Salix* sp (flowers), all 10.111.1989-Çandır, 1♀, *Prunus persica*; 6♀, *Calycotome villosa*(flowers); 1♀, *Asphodelus* sp; 4♂, 5♀, *Prunus domestica*(flowers); 1♀, *Citrus* sp(flowers); 10.111.1989-Hasyurt, 5♀, *Prunus armeniaca*(flowers), 10.111.1989-Beşikçi, 4♀, *Calycotome villosa*, 10.111.1989-Akçapınar, 1♂, 20♀, *Prunus domestica*; 4♀, *Prunus domestica*; 4♀, *Prunus persica*, both 17.111.1989-Gebiz, 1♂, *Taraxacum* sp; 24♀, *Calycotome villosa*, both 17.111.1989-Abdurrahmanlar, 1♀, *Amygdalus communis*; 4♀, *Prunus armeniaca*; 1♀, *Vicia faba*, all 17.111.1989-Taşağıl, 2♀, *Prunus armeniaca*, 17.111.1989-Düzlerçami, 1♀, *Ribes* sp; 2♀, *Colutea* sp. both 24.111.1989-Arif, 2♀, *Malus communis*(flowers); 1♀, *Prunus persica*(flowers); 6♀, *Pyrus communis* (flowers); 2♀, *Prunus avium*(flowers); 24.111.1989-Turunçova, 2♂, 26♀, *Citrus sinensis*(flowers), 24.111.1989-Haciveliler, 2♂, 1♀, *Citrus sinensis* (flowers), 24.111.1989-Kayaburma, 6♂, 7♀ bush; 1♂, *Asphodelus* sp, 1♀, *Quercus cerris*; 1♀, *Tripleurosperma* sp; 7♀, *Prunus cerasus*, all 7.IV.1989-Burmançı, 2♀, *Pisum aestivum* 7♀, *Morus alba*(flowers); 7♂, 9♀, *Citrus* sp(flowers); 2♀, *Prunus persica*; 1♂, 4♀, *Acacia cyanophylla*, all 7.IV.1989-Kuşlar, 2♀, *Pyrus elaeagrifolia*(flowers);

1 ♀, *Prunus persica*(flowers), both, 7.IV.1989-Serik, 2♂, 5♀, *Citrus aurantium*(flowers), 7.IV.1989-Burmancı, 2♂, 4♀, *Cydonia vulgaris* (flowers), 7.IV.1989-Düzlerçamı, 6♂, 15♀, *Ribes* sp; 1♂, 6♀, *Citrus* sp, both 13.IV.1989-Yenice, 1♂, 1♀, *Calycotome villosa*; 5♂, 1♀, *Pistacia*, sp, both 13.IV.1989-Sögütcük, 1♀, *Pyrus elaeagrifolia*, 13.IV.1989-Beldibi, 3♂, 6♀, *Citrus sinensis*(flowers), 20.IV.1989-Göynük, 8♀, *Citrus nobilis deliciosa* (flowers), 20.IV.1989-Kemer, 3, *Citrus sinensis*, 20.IV.1989-Çamyuva, 1♂, 6♀, *Citrus sinensis* (flowers); 5♀ *Citrus nobilis deliciosa*(flowers), both, 20.IV.1989-Finike, 4♀, *Citrus sinensis*(flowers); 11♂, *Citrus limonium*(flowers); 1♀, *Euphorbia* sp; 1♀, *Morus alba*(flowers), all 20.IV.1989-Aksu, 3♀, *Citrus limonium* (flowers); 9♂, *Citrus nobilis deliciosa*(flowers), 27.IV.1989-Serik, 1♂, *Citrus limonium*(flowers); 1♂, 1♀, *Citrus sinensis*(flowers); 1♂, *Triticum aestivum*(ears), all 27.IV.1989-Çolaklı, 3♀, *Olea europaea*, 27.IV.1989-Gençler, 1♀, *Pistacia* sp. 27.IV.1989-Gündoğmuş, 2♀, *Vitis vinifera*; 1♀, *Pyrus communis*; 21♀, *Ligustrum* sp; 2♀, *Quercus* sp (flowers); 2♀, *Triticum aestivum* (ears); 1♂, 6♀, *Malus communis* (leaves); 1♀, *Amygdalus communis*, all 27.IV.1989-Kepes, 6♀, *Olea europaea*, 4.V.1989-Düzlerçamı, 2♂, 3♀, *Nerium oleander*, 4.V.1989-Yenice, 10♀, *Pallurus spina-christi*, 4.V.1989-Sögütcük, 1♀, *Pyrus elaeagrifolia* (leaves), 4.V.1989-Yazar (Korkuteli), 3♀, *Prunus armeniaca* (leaves); 1♂, 8♀, *Prunus persica* (leaves); 1♂, 1♀, *Prunus domestica* (leaves); 1♂, 2♀, *Eleagnus* sp; 2♀, *Juglans regia* (leaves), all 4.V.1989-Akyar, 1♀, *Berberis* sp, 4.V.1989-Bozova, 1♂, *Rosa* sp; 1♂, 1♀, *Hordeum vulgare* (ears); 1♀, *Rosa canina*, all 4.V.1989-Bahtılı, 4♀, *Vitis vinifera*; 3♀, *Morus alba*(leaves); 2♂, 2♀, *Citrus* sp (flowers); 1♀, *Punica granatum*(flowers); 1♀, *Olea europaea*, all 11.V.1989-Altın-yaka, 20♀, *Rosa* sp; 1♂, 20♀, *Prunus Persica*; 6♀, *Malus communis* (leaves); 4♀, *Juglans regia* (leaves); 2♀, *Morus alba* (leaves); 2♂, 11♀, *Rosa canina*; 2♂, 4♀, *Prunus armeniaca*(leaves); 2, *Amygdalus communis*(leaves), all 11.V.1989-Yeşilbayır, 2♂, *Prunus armeniaca* (leaves); 1♀, *Vitis vinifera*, both 18.V.1989-Kovanlık, 1♀, *Morus alba*, 18.V.1989-Ekşilli, 1♀, *Nerium oleander*, 18.V.1989-Tatköy, 1♀, *Malus communis* (leaves); 1♀, *Prunus armeniaca* (leaves), 25.V.1989-Çobanisa, 4♀, *Eleagnus* sp; 1♀, *Triticum aestivum* (ears); 4♂, 5♀, *Rosa canina*, all 25.V.1989-Gömbe, 3♂, *Triticum aestivum* (ears), 25.V.1989-Akçay, 1♀, *Pyrus elaeagrifolia* (leaves), 25.V.1989-Eymir, 1♀, *Eleagnus* sp

(flowers), 25.V.1989-Yenice, 1♀, *Phyllirea* sp, 16.VI.1989-Korkuteli, 1♀, *Prunus persica*, 16.VI.1989-Finike, 2♀, *Zea mays*, 22.VI.1989-Geriş, 1♀, *Vitex agnus-castus*, 29.VI.1989-Gedelme, 1♀, *Hypericum* sp, 10.VI.1989-Mahmutlar, 1♀, *Musa paradisi*, 7.IX.1989-Göynük, 3♂, 7♀, *Rubus fruticosus*; 2♂, *Vitex agnus-castus*: 1♀, *Vigna sinensis* all 14.IX.1989-Beycik, 1♀, *Malus communis*: 1♀, *Zea mays* both 14.IX.1989-İbradı, *Corylus avellana*, 28.IX.1989-Kovanlık, 4♂, 6♀, *Erica* sp, 30.IX.1989-Çalkaya, 1♂, 1♀, *Daphne gnidioides*: 5♂, 10♀ *Eriobotrya japonica*, both 30.XI.1989-Kemerağzı, ♀, *Rubus fruticosus* 1♂, *Vitex agnus-castus*, both 30.X.1989-Çağlayan, 1♀, *Eriobotrya japonica*, 30.X.1989-Duraliler, 8♂, 10♀, *Clematis* sp; 3♂, 2♀, *Rubus fruticosus*; 4♂, 1♀, *Daphne gnidioides*; 4♀, *Ceratoniasiliqua*: 1♀, *Olea europaea*: 1♂, 7♀, *Eriobotrya japonica*, all 10.XI.1989-Aşağıkaraman, 3♂, 14♀, *Eriobotrya japonica*: 5♀, *Ceratoniasiliqua* both 10.XI.1989-Bahtılı, 2♀, *Eriobotrya japonica*: 2♀, *Rosa* sp, both 10.XI.1989-Çakırlar, 3♂, 2♀, *Eriobotrya japonica*: 2♀, *Rosa* sp, both 10.XI.1989-Çakırlar, 3♂, 2♀, *Eucalyptus* sp; 1♂, 1♀, *Myrtus communis*, 10.XI.1989-Sütçüler, 2♂, 5♀, *Ceratoniasiliqua*, 27.XI.1989-Düden, 1♂, 4♀, *Rosa* sp; 5♂, 6♀, *Chrysanthemum morifolium*, both 27.XI.1989-Varsak, 7♂, 22♀, *Eriobotrya japonica*; 21♂, 10♀, *Erica* sp, 27.XI.1989-Kirişçiler, 7♀, *Clematis* sp; 27.XI.1989-Kızıllar, 12♀, *Clematis* sp, 27.XI.1989-Yenikant, 1♀, *Eucalyptus* sp, 27.XI.1989-Kızıllarık, 3♀, *Eriobotrya japonica*, 27.XI.1989-Güzeloba, 1♂, 5♀, *Eucalyptus* sp; 1♂, 3♀, *Ceratoniasiliqua*, 27.XI.1989-Bahtılı, 1♂, 3♀, *Eriobotrya japonica*; 2♀, *Salix* sp; 1♂, 3♀, *Clematis* sp; 1♀, grass, all 7.XII.1989-Çakırlar, 3♀, *Eriobotrya japonica*; 6♂, 6♀, *Clematis* sp; 1♂, 1♀, *Ceratoniasiliqua*, all 7.XII.1989-Hacısekililer, 6♀, *Ceratoniasiliqua*, 7.XII.1989-Yenigöl, 7♀, *Eriobotrya japonica*, 21.XII.1989-Alaylı, 1♂, 7♀, *Clematis* sp; 21.XII.1989-Göloluk, 2♂, 4♀, *Narcissus tazette*; 2♀, *Eucalyptus* sp, both 21.XII.1989-Kürüş, 11♀, *Eriobotrya japonica*, 21.XII.1989-Boğazak, 4♀, *Eucalyptus* sp, 21.XII.1989-Gökçam, 1♂, 7♀, *Eriobotrya japonica*, 9.I.1990-Hurma, 2♂, 8♀, *Clematis* sp, 9.I.1990-Aslanbucak, 16♀, *Eriobotrya japonica*; 4♀, *Bougainvillea glabra*; 9♀, *Rosa* sp, all 9.I.1990-Göynük, 5♂, 14♀, *Calycotome villosa*, 9.I.1990-Koyunlar, 8♀, *Eriobotrya japonica*, 25.I.1990-Gaziler, 5♀, *Clematis* sp, 25.I.1990-Fettahlı, 4♀, *Eriobotrya japonica*; 1♀,

Eucalyptus sp, both 25.I.1990-Aksu, 4 ♀, *Narcissus tazette*, 25.I.1990-Bahtılı, 1 ♀, *Euphorbia* sp: 1 ♀, *Eucalyptus* sp; 1 ♀, *Rubus fruticosus*, all 8.II.1990-Çakırlar, 9 ♀, *Eriobotrya japonica*; 16 ♀ *Nacissus tazette*; 9 ♀, *Mercurialis annua*, all 9.II.1990-Karatepe, 5 ♀, *Mercurialis annua*, 9.II.1990-Kızıllarık, 2 ♀, *Prunus persica* (flowers); 2 ♀, *Euphorbia* sp; 4 ♀, *Amygdalus communis*; 1 ♀, crucifer; 1 ♀, *Mercurialis annua*; 1 ♀, *Sonchus* sp; 1 ♀, *Raphanus raphanistrum*, all 21.II.1990-Ihsaniye, 9 ♀, *Calycotome villosa*; 1 ♀, *Acer* sp; *Amygdalus communis*, all 21.II.1990-Alaylı, 3 ♀ *Amygdalus communis*, 21.II.1990.

Habitat : Flowers of various plants particularly ligneous plants.
Citrus pest in North Africa.

Distribution: Holarctic. It was recorded from all regions of Turkey except Southeastern Anatolia.

Remarks : In the coastal areas is predominant species on flowers of Citrus, medlar and temperate fruits and appears in the period of September-June. In inland between April and September.

***Thrips mareoticus* Priesner**

Material examined : Belen, 3 ♀, *Triticum aestivum*, 20.IV.1989

Habitat : Flowers of Compositae

Distribution : Mediterranean. Marmara region of Turkey.

***Thrips minutissimus* Linnaeus**

Material examined : Kumluca, 1 ♀, *Triticum aestivum* (pre-earring); 3 ♀, *Pyrus elaeagrifolia* (flowers), both 23.III.1988-Töngüslü, 3 ♀, *Calycotome villosa*(flowers), 30.III.1988-Abdurrahmanlı, 1♂, 2♀ *Pyrus elaeagrifolia*(flowers), 30.III.1988- Nigit, 1♂, *Crateagus* sp (flowers), 30.III.1988-Finike, 1♀, *Acacia cyanophylla*(flowers),6.IV.1988-Adrasan, 1♀, *Pinus brutia* (flowers), 6.IV.1988-Yenice, 1♀, *Quercus* sp (flowers), 13.IV.1988-Yenice, 12 ♀, *Quercus coccifera*, 5.V.1988-Geyikbayırı, 1 ♀, *Vicia faba*(flowers), 23.II.1989-Hurma, 1♀, *Prunus domestica*(flowers); 1 ♀, *Citrus* sp(flowers); 1♀, *Platanus orientalis* (flowers); 1♀, *Salix* sp(flowers) all 10.III.1989-Çandır, 3♀, *Prunus domestica*(flowers); 1♂, 1♀, *Raphanus raphanistrum*, both 10.III.1989-

Hasyurt, 1♀, *Ornithagalum* sp, 10.III.1989-Akçapınar, 1♀, *Prunus domestica*(flowers): 17.III.1989-Düzlerçamı, 1♀, *Ribes* sp, 24.III.1989-Maarif, 1♀, *Pyrus elaeagrifolia*(flowers): 24.III.1989-Sögütçük, 2♀, *Amygdalus communis*(flowers), 24.III.1989-Yazır, 1♀, *Prunus persica* (flowers), 24.III.1989-Korkuteli, 1♀, *Amygdalus communis*(flowers), 24.III.1989-Arif, 2♀, *Prunus avium*, 24.III.1989-Kayaburma, 1♀, *Quercus cerris*, 7.IV.1989-Kuşlar, 1♀, *Euphorbia* sp, 7.IV.1989-Eymir, 1♀, *Prunus cerasus*, 13.IV.1989-Gündoğmuş, 1♀, *Quercus cerris*, 27.IV.1989-Bayat, 1♀, *Populus* sp, 4.V.1989-Yazır (Korkuteli), 1♀, *Prunus cerasus* (leaves); 1♀, *Eleagnus* sp, both 4.V.1989-Korkuteli, 2♀, *Pyrus communis* (yaprak), 4.V.1989-Özdemir, 1♀, *Prunus domestica* 16.VI.1989.

Habitat : Deciduous tree, particularly temperate fruits.

Distribution : Europe. Aegean and Central Anatolia regions of Turkey

Remarks: In coastal areas in the period of February-April, in inland March-June.

Thrips nigropilosus Uzel

Material examined: Hasyurt, 1♀, (brac.), *Koelpina* sp, 10.III.1989-Fersin, 2♀, (mac.), *Lycopersicon esculentum*, 29.VI.1989.

Habitat : Flowers of herbaceous plants, particularly Compositae

Distribution : Palaearctic. Only from İstanbul in Turkey.

Thrips physapus Linnaeus

Material examined : Duraliler, 1♀, *Nerium oleander*(flowers), 26.V.1988-Mamatlar, 6♀, *Carthamus* sp, 11.VII.1989.

Habitat : Flowers of various plants, but mainly Compositae.

Distribution : Euro-Siberian. Existing records only from Western Anatolia but presumably all over Turkey.

Thrips tabaci Lindeman

Material examined: Kumluca, 9♀, *Cucumis sativus*(greenhouse) 10.I.1988-Alanya, 5♀, *Lantana camara* (flowers), 17.II.1989-Konaklı, 12♀, *Pisum sativum*(flowers), 17.II.1989-Kale, 10♀, *Cucumis sativus*;

2♀, *Vicia faba*(flowers), both 24.II.1988-Finike, 6♀, *Amygdalus communis*; 1♀, *Euphorbia* sp, both 24.II.1988-Gazipaşa, 2♀, *Cucumis sativus*; 1♀, *Asphodelus* sp(flowers); 1, *Calycotome villosa*(flowers), all 2.III.1988-Bahtılı, 1♀, *Raphanus raphanistrum*(flowers), 23.III.1988-Karatepe, 5♀, *Vicia sativa*(flowers), 23.II.1988-Kumluca, 6♀, *Triticum aestivum* (ears); 2♀, *Euphorbia* sp, both 23.III.1988-Gebiz, 1♂, 5♀ *Euphorbia* sp, 2♀; *Asphodelus* sp, 30.III.1988-Abdurrahmanlı, 2♀, *Triticum aestivum* (ears), 30.III.1988-Yavaş, 1♂, 2♀, *Lupinus angustifolius*(flowers), 30.III.1988-Serik, 2♀, *Raphanus raphanistrum* (flowers); 2♂, 7♀, *Vicia faba*(flowers); 1♀, *Ornithogalum* sp(flowers), all 30.III.1988-Campus, 9♀, *Spiraea* sp(flowers), Kumluca, 2♀, *Citrus* sp(flowers); 2♀, *Raphanus* sp; 4♀, *Raphanus raphanistrum*, all 6.IV.1988-Turunçova, 1♀, *Euphorbia helioscopia*; 4♀ *Citrus* sp(Flowers); 2♀, *Matricaria chamomilla*, all 6.IV.1988-Mavikent, 1♀, *Citrus* sp (flowers), 6.IV.1988-Yazır (Kumluca), 1♀, *Triticum aestivum* (pre-earring), 6.IV.1988-Duraliler, 3♀, *Prunus persica*(flowers), 11.IV.1988-Korkuteli, 1♀, *Triticum aestivum* (pre-earring); 2♀, *Capsella bursa-pastoris*. both 13.IV.1988-Serik, 4♀, *Vicia sativa*(flowers), 20.IV.1988-Çolaklı, 1♀, *Gladiolus* sp, 20.IV.1988-Beşkonak, 1♀, *Scandix pecten-veneris*, 20.IV.1988-Aksu, 17♀, *Caryophyllus dianthus*, 20.IV.1988-Yenice 1♀, *Hordeum* sp; 4♀, *Cardaria* sp, both 5.V.1988-İmrahor, 1♀, *Malus communis*(flowers), 5.V.1988-Elmalı, 1♀, *Malus communis*; 1♀, *Triticum aestivum* (pre-earring), both 5.V.1988-Kuzuköy, 1♀, *Malus communis*(flowers), 5.V.1988-Duraliler, 5♀, *Vitis vinifera*; 6♀, *Nerium oleander*(flowers), 26.V.1988-Doyran, 1♀, *Olea europaea* (leaves); 7♀, *Phaseolus vulgaris*, 27.V.1988-Gökçam, 8♀, *Solanum melongena*; 5♀, *Cucumis sativus*, 16♀, *Cucurbita pepo*, all 27.V.1988-Göynük, 1♂, 16♀, *Phaseolus vulgaris*; 1♀, *Vitis vinifera* both 27.V.1988-Beldibi, 3♀, *Citrus limonium* (flowers), 27.V.1988-Hurma, 5♀, *Paliurus spinachristi*(flowers); 10♀, *Nerium oleander*(flowers), both 27.V.1988-Aksu, 10♀, *Gossypium hirsutum*, 9.VI.1988-Bekirler, 9♀, *Gossypium hirsutum*; 13♀, *Cucumis melo*; 15♀, *Prunus persica*; 2♀, *Zea mays*, all 9.VI.1988-Kızılot, 1♀, *Punica granatum*(flowers); 2♀, *Amygdalus communis* (leaves); 2♀, *Vitis vinifera*; 17♀, *Zea mays*, all 9.VI.1988-Okurcular, 7♀, *Musa paradisi*, 9.VI.1988-Campus, 7♀, *Anthemis* sp, 10.VI.1988-Korkuteli, 7♀, *Cardaria* sp, 16.VI.1988-Elmalı, 11♀,

Pimpinella anisum, 16.VI.1988-Akçay, 1♀, *Pyrus communis* (leaves), 16.VI.1988-Gömbe, 5♀, herb, 16.VI.1988; 8♀, *Corylus avellana*, both 16.VI.1988-Kaş, 2♀, *Bougainvillea glabra*; 4♀, *Myrtus communis*, both 16.VI.1988-Koyunlar, 4♀, *Arachis hypogaea*; 5♀, *Prunus persica* (leaves), both 23.VI.1988-Varsaklı, 4♀, *Gossypium hirsutum*; 1♀, *Phaseolus vulgaris*, both 23.VI.1988-Koyunlar, 4♀, *Solanum melongena* 4♀, *Capsicum annuum*; both 23.VI.1988-Boztepe, 2♀, *Gossypium hirsutum*, 23.VI.1988-Akınlar, 2♀, *Arachis hypogaea*; 1♀, *Capsicum annuum*, 23.VI.1988-Sarıabalı, 1♀, *Gossypium hirsutum*; 1♀, *Zea mays*, both 23.VI.1988-Perakende, 5♀, *Myrtus communis*, 23.VI.1988-Düzlerçamı, 4♀, *Vitex agnus-castus*, 30.VI.1988-Korkuteli, 9♀, *Pimpinella anisum*; 7♀, *Phaseolus vulgaris*, both 30.VI.1988-Elmalı, 1♀, *Vitis vinifera*; 4♀, *Zea mays*, both 30.VI.1988-Yakaçiftlik, 1♀, *Lycopersicon esculentum*; 2♀, *Phaseolus vulgaris*, 30.VI.1988-Arif, 12♀, *Clematis* sp, 30.VI.1988-Turunçova, 2♀, *Hibiscus mutabilis*; 1♀, *Citrus* sp, 8♀, *Acacia karoo*, all 30.VI.1988-Yukarıkocayatak, 5♀, *Gossypium hirsutum*; 4♀, *Vitex agnus-castus*; 2♀, *Solanum melongena*, all 14.VII.1988-Çolaklı, 7♀, *Arachis hypogaea*, 4♀, *Gossypium hirsutum*, both 14.VII.1988-Gençler, 1♀, *Vitis vinifera*, 14.VII.1988-Murtiç, 2♀, *Myrtus communis*; 4♀, *Vitex agnus-castus*; 2♀, *Quercus* sp, all 14.VII.1988-Akseki, 2♀, *Amygdalus communis*; 3♀, *Vitis vinifera*, 14.VII.1988-Fersin, 9♀, *Sesamum indicum*; 3♀, *Vitis vinifera*, both 14.VII.1988-Manavgat, 7♀, *Sesamum indicum* 14.VII.1988-Aşağıkocayatak, 1♀, *Capsicum annuum*; 1♀, *Zea mays*; 1♀, *Hibiscus esculentus*; 2♀, *Sesamum indicum*, all 21.VII.1988-Kumköy, 5♀, *Gossypium hirsutum*, 21.VII.1988-Manavgat, 3♀, *Hibiscus esculentus*; 2♀, *Gossypium hirsutum*, both 21.VII.1988-Güzelbağ, 1♀, *Amygdalus communis*; 6♀, *Hibiscus esculentus*; 10♀, *Sesamum indicum*, all 21.VII.1988-Güney, 2♀, *Myrtus communis*; 1♀, *Vitex agnus-castus*; 2♀, *Amygdalus communis*, 21.VII.1988-Göynük, 1♀, *Vitex agnus-castus*; 3♀, *Capsicum annuum*, 4.VIII.1988-Tekirova, 3♀, *Zea mays*; 4.VIII.1988-Tekirova, 4♀, *Zea mays*, 4.VIII.1988-Çalka, 1♀, *Zea mays*; 1♀, *Arachis hypogaea*, both 4.VIII.1988-Altinyaka, 1♀, *Corylus avellana*, 1♀, *Phaseolus vulgaris*; 2♀, *Sesamum indicum*, all 4.VIII.1988-Havaalanı, 2♀, *Sesamum indicum* 1♀, *Solanum melongena* both 18.VIII.1988-Kemeragzi, 2♀, *Gossypium hirsutum*, 18.VIII.1988-Tongüşlü, 5♀, *Gossypium hirsutum*, 18.VIII.1988-Belek, 2♀, *Arachis hypogaea*, 18.VIII.1988-Karagöz, 1♀, *Sesamum*

indicum, 18.VIII.1988-Korkuteli, 1♀, *Prunus avium*, 25.VIII.1988-Öküz-
 gözü, 1♀, *Prunus spinosa*; 1♀, *Rosa canina*; 1♀, *Cydonia vulgaris*,
 all 25.VIII.1988-Eymir, 6♀, *Beta vulgaris*, 25.VIII.1988-Kuzköy, 5♀
Medicago sativa; 3♀, *Lycopersicon esculentum*, both 25.VIII.1988-
 Gökpınar, 2♀, *Lycopersicon esculentum*; 1♀, *Cucurbita pepo*; 2♀,
Capsicum annuum; 18♀, *Daucus carota*, all 25.VIII.1988-Yurtpınar,
 2♀ *Gossypium hirsutum*, 7.IX.1988-Ihsaniye, 1♀, *Lytrum* sp, 8.IX.1988-
 Alanya, 1♀, *Musa paradisi*, 8.IX.1988-Adrasan, 3♂, 2♀, *Zea mays*,
 15.IX.1988-Turunçova, 1♂, 3♀, *Phaseolus vulgaris*, 15.IX.1988-Çeltikçi,
 1♀, *Solanum melongena*; 1♀, *Olea europaea*; 3♀, *Zea mays* all
 13.X.1988-Mavikent, 2♀, *Solidago* sp, 27.X.1988-Komluca, 14♀,
Cucumis sativus; 11♀ *Citrullus lanatus*, both 27.X.1988-Tekirova,
 2♀, *Rosa* sp; 1♀, *Zea mays*, both 27.X.1988-Çolaklı, 1♀, *Cassia* sp,
 7.IX.1988-Hocalar, 1♀, *Vicia faba*; 1♀, *Gossypium hirsutum*, both
 10.X.1988-Mahmutlar, 2♀, *Phaseolus vulgaris* 10.X.1988-Gazipaşa,
 1♀, *Rubus fruticosus*; 2♀, *Cucumis sativus*, both 10.XI.1988-Okurcalar,
 3♀, *Dianthus caryophyllus*, 10.XI.1988-Kale, 1♀, *Olea europaea*; 1♀
Tagetes sp; 1♀, *Phaseolus vulgaris*; 3♀, *Cucumis sativus*, all
 24.XI.1988-Kırcamisi, 3♀, *Rosa* sp; *Gerbera* sp, 1♀ both 25.II.1988-
 Kırcamisi, 1♀, *Phaseolus vulgaris*, 8.XII.1988-Cumalı, 4♀, cereal,
 8.XII.1988-Deniztepe, 3♀, *Allium porrum*, 8.XII.1988-Göynük, 1♀,
 herb; 2♀, *Euphorbia* sp, 22.XII.1988-Adrasan, 3♀, *Cucumis sativus*,
 22.XII.1988-Mavikent, 2♀, *Datura* sp, 22.XII.1988-Koyunlar, 1♀,
Eriobotrya japonica: 1♀, *Triticum aestivum*, both 5.I.1989-Varsak,
 1♀, *Anemone* sp: 1♀, *Clematis* sp, both 5.I.1989-Özlü, 1♀, herb
 (Liliaceae), 5.I.1989-Kemerağzı, 33♀, *Allium porrum*: 1♀, *Petroselinum*
sativum, both 5.I.1989-Güzeloba, 6♀, *Allium cepa*: *Apium graveolens*
 var. dulce, both, 5.I.1989-Mavikent, 3♀, *Narcissus tazette*, 19.I.1989-
 Hasyurt, 1, crucifer; 2♀, *Lamium* sp, both 19.I.1989-Manavgat,
 1♀, *Vicia faba*(flowers), 2.II.1989-Okurcalar, 2♀, *Cucurbita pepo*,
 2.II.1989-Serapsu, 4♀, *Cucurbita pepo*; 7♀, *Cucumis sativus*
 Çakırlar, 1♀, cereal; 1♀, *Euphorbia* sp, both 23.II.1989-
 Geyikbayırı, 1♀ *Narcissus tazette*: 1♀, *Amygdalus communis*(flowers),
 both 23.II.1989-Ekşilik, 3♀, *Allium sativum*, 23.II.1989-Hurma, 11♀,
Asphodelus sp; 2♀, *Phlomis armeniaca*; 1♀, *Vicia faba*; 1♀, *Platanus*
orientalis(flowers), all 10.II.1989-Çandır, 3♀, *Allium cepa*; 1♀,

Calycotome villosa; 10♀, *Asphodelus* sp; 1♂, *Citrus* sp(flowers); 1
Raphanus raphanistrum, all 10.III.1989-Hasyurt, 5♀, *Koelpina* sp;
11♀, *Ornithagalum* sp; 5♀, *Cucumis sativus*, all 10.III.1989-Beşikçi,
4♀, cereal (pre-earring), 10.III.1989-Ulupınar, 2♀, *Euphorbia* sp,
10.III.1989-Akçapınar, 5♂, 3♀, *Euphorbia* sp; 3♀, *Asphodelus* sp;
1♀, *Citrus limonium*; all 17.III.1989-Abdurrahmanlar, 12♀, *Pisum*
sativum; 1♀, *Vicia faba*; 2♀, *Allium cepa*, all 17.III.1989-Taşağıl,
1♀, *Vicia faba*, 17.III.1989-Çalkaya, 14♀, *Pisum sativum*, 17.III.1989-
Karaçalı, 14♀, *Asphodelus* sp; 2♀, *Calycotome villosa* both 17.III.1989-
Kemeragzi, 2♀, *Petroselinum sativum*, 17.III.1989-Güzeloba, 19♀,
Allium porrum, 17.III.1989-Maarif, 4♀, crucifer, 24.III.1989-Yazar,
1♀, *Prunus domestica*(flowers), 24.III.1989-Korkuteli, 1♀, *Amygdalus*
communis; 24.III.1989-Arif, 1♀, cereal (pre-earring), 24.III.1989-Hacive-
liler, 8♀, *Raphanus raphanistrum*; 2♂, 10♀, *Ranunculus* sp, both
24.III.1989-Kayaburma, 3♀, *Triticum aestivum*(ears); 10♀, *Asphodelus*
sp; 2♀, *Quercus cerris*; 1♀, *Tripleurosperma* sp, 1♀, compositi; 1♀
composit; 1♀, *Phaseolus vulgaris*, all 7.IV.1989-Burmancı, 2♀, *Pisum*
sativum; 1♂, *Morus alba*(flowers); 1♀, *Prunus persica*, all 7.IV.1989-
Düzlerçamı, 2♀, *Ribes* sp, 13.IV.1989-Yenice, 2♀, *Calycotome villosa*;
3♀, *Triticum aestivum*; 1♀, *Colutea* sp; 1♀, *Euphorbia* sp, all
13.IV.1989-Yazır(Korkuteli), 1♀, *Prunus avium*(flowers); 1♀, *Prunus*
domestica (leaves), both 3.IV.1989-Korkuteli, 1♀, *Prunus persica*
(flowers), 2♀, *Malus communis*(flowers); 1♀, *Pyrus communis*(flowers);
1♀, *Prunus cerasus*(flowers); 6♀, *Euphorbia* sp; 1♀, *Juglans regia*
(flowers); 2♀, *Prunus avium*(flowers), all 13.IV.1989-Akçay, 1♀, *Pyrus*
communis, 13.IV.1989-Elmalı, 1♀, *Malus communis*, 13.IV.1989-Beldibi,
2♀, *Citrus sinensis*, 20.IV.1989-Göynük, 4♀, *Citrus limonium*,
20.IV.1989-Kemer, 3♀, *Citrus sinensis*(flowers); 2♀, *Trifolium* sp,
both 20.IV.1989-Çamyuva, 1♀, *Citrus sinensis*(flowers); 1♀, *Citrus*
nobilis deliciosa; 14♀, *Alyssum murale*, all 20.IV.1989-Kumluca,
1♀, *Triticum aestivum*(ears), 20.IV.1989-Finike, 7♀, *Trifolium* sp;
Citrus sinensis(flowers); 5♀, *Citrus limonium*(flowers); 2♀, *Euphorbia*
sp, 20.IV.1989-Kavak, 11♀, *Anthemis* sp; 11♀, *Malus communis*;
7♀, *Anchusa* sp; 11♀, *Citrus sinensis*, all 20.IV.1989-Belen, 1♀, *Triticum*
aestivum(ears), 20.IV.1989-Aksu, 2♀, *Citrus limonium*, 27.IV.1989-
Serik, 1♀, *Triticum aestivum*(ears), 27.IV.1989-Çolaklı, 1♀, *Phaseolus*

vulgare; 4 ♀, *Anthemis* sp, both 27.IV.1989-Gençler, 2 ♀, *Hordeum vulgare*, 27.IV.1989-Güneycik, 6 ♀, *Cotinus* sp ; 1 ♀, *Phlomis armeniaca*; 1 ♀, *Trifolium* sp, all 27.IV.1989-Gündoğmuş, 1 ♀, *Triticum aestivum*(ears); 1 ♀, *Triticum aestivum* (ears), both 27.IV.1989-Kepez, 3 ♀, *Olea europaea*, 27.IV.1989-Düzlerçami, 2 ♀, *Nerium oleander*, 4.V.1989-Yenice, 4 ♀, *Paliurus spina-christi*; 1 ♀, *Hordeum vulgare* (ears), both 4.V.1989-Sögütçük, 2 ♀, *Pyrus elaeagrifolia*; 5, *Triticum eastivum*, both 4.V.1989-Bayat, 2 ♀, *Populus* sp, 4.V.1989-Yazır(Korkuteli, 1 ♀, *Prunus avium*(leaves); 1 ♀, *Prunus cerasus*(leaves); 3 ♀, *Cydonia vulgaris*(leaves), all 4.V.1989-Akyar, 1 ♀, *Cornus mas*(leaves); 2 ♀, cereal, both 4.V.1989-Bozova, 1 ♀, *Hordeum vulgare*(ears), 4.V.1989-Bahtılı, 2 ♀, *Morus alba*(leaves); 2 ♀, *Zea mays*; 4 ♀, *Ficus carica*; 9 ♀, *Anthemis* sp; 1 ♀, *Olea europaea*, all 11.V.1989-Çakırlar, 2 ♀, *Opuntia ficus-indica*(flowers); 7 ♀, *Hypericum* sp; 13 ♀, *Apium graveolens* var *dulce*; 5 ♀, *Phaseolus vulgaris*, all 11.V.1989-Altinyaka, 1 ♀, *Malus communis*(leaves); 1 ♀, *Juglans regia*(leaves), all 11.V.1989-Karaağaç, 10♂, 17♀, *Triticum aestivum*, 11.V.1989-Kumluca, 10♂, 4♀, *Nerium olender*; 30♂, 1♀, *Triticum aestivum*(ears), both 11.V.1989-Yeşilbayır, 2♀, *Solanum tuberosum*(flowers); 7♀, *Olea europaea*; 10♂, 8♀, *Phaseolus vulgaris*; 2♀, *Punica granatum*(flowers); 2♀, *Vitis vinifera*, all 18.V.1989-Kırkgözhan, 2♀, *Zea mays*, 18.V.1989-Kovanlık, 5♀, *Avena sativa*(ears); 2♀, *Ficus carica*; 2♀, *Morus alba*(leaves); 1♀, *Amygdalus communis*; 3♀, *Vitis vinifera*, all 18.V.1989-Ekşili, 3♀, *Nerium oleander*, 18.V.1989-Kurşunlu, 1♀, *Amygdalus communis* (leaves); 8♀, *Phaseolus vulgaris*, both 18.V.1989-Gaziler, 1♀, *Pistacia* sp, 18.V.1989-Düden, 2♀, *Prunus persica*(leaves), 18.V.1989-Yukarıkaraman, 21♀, *Phaseolus vulgaris*; 2♀, *Olea europaea*; 1♀, *Solanum tuberosum*(flowers); 15♀, *Zea mays*, all 25.V.1989-Tatköy, 1♀, *Malus communis*(leaves); 1♀, *Prunus armeniaca* (leaves); 1♀, *Juglans regia*; 4♀, *Medicago sativa*, all 25.V.1989-Çobanisa, 2♀, *Triticum aestivum* (ears), 25.V.1989-Gömbe, 3♀, *Vicia sativa*; 4♀, *Medicago sativa*; 4♀, *Malus communis* all 25.V.1989-Akçay, 1♀, *Isatis* sp; 2♀, *Triticum aestivum* (ears); *Populus* sp; 6♀, *Pimpinella anisum*, all 25.V.1989-Macar, 3♀, *Phaseolus vulgaris*; 2♀, *Capsicum annum*; 2♀, *Solanum melongena*; 9♀, *Zea mays*; 3♀, *Punica granatum*(flowers); 2♀, *Prunus domestica* 1♀, *Morus alba* 1♀, *Quercus cerris* 1♀, *Prunus persica*,

all 1.VI.1989-Yeşilöz, 1 ♀, *Ceratonia siliqua*; 2 ♀, *Musa paradisi*; 3 ♀
Nerium oleander, all 1.VI.1989-Demirtaş, 8 ♀, *Zea mays*, 1.VI.1989-
 Mahmutlar, 1 ♀, *Solanum melongena*, 1.VI.1989-Çolaklı, 1 ♀, *Gossypium*
hirsutum; 2 ♀, *Lycopersicon esculentum*; 2 ♀, *Capsicum annuum*, all
 1.VI.1989-Düzlerçamı, 1 ♂, 1 ♀, *Vitex agnus-castus*; 1 ♀; *Nerium oleander*;
 1 ♀, *Verbascum* sp; all 16.VI.1989-Yazır (Korkuteli), 1 ♀, *Pyrus*
elaeagrifolia, 16.VI.1989-Korkuteli, 3 ♀, *Vitis vinifera*; 1 ♀, *Prunus*
persica, both 16.VI.1989-Öküzgözü, 2 ♀, *Triticum aestivum* (ears),
 16.VI.1989-Özdemir, 2 ♀, *Eleagnus* sp; 2 ♀, *Vitis vinifera*; 1 ♀, *Salix*
 sp; 10 ♀, *Allium sativum*; 8 ♀, *Phaseolus vulgaris*, all 16.VI.1989-Kara-
 köy, 1 ♀, *Triticum aestivum* (ears), 16.VI.1989-Gölova, 1 ♀, *Vitis*
vinifera; 1 ♀, *Triticum aestivum* (ears), both 16.VI.1989-Kale, 3 ♀,
Vitex agnus-castus; 1 ♀, *Olea europaea*; 3 ♀, *Nerium oleander*;
 1 ♀, *Malus communis*(leaves); *Zea mays*, all 22.VI.1989-Finike, 1 ♀,
Phaseolus vulgaris; 2 ♀ *Onobrychis* sp; 9 ♀, *Daucus* sp, all 22.VI.1989-
 Akseki, 4 ♀, *Zea mays*; 5 ♀, *Amygdalus communis*; 1 ♀, *Malus com*
munis; 2 ♀, *Vitis vinifera*, all 29.VI.1989-Cevizli, 2 ♀ *Vitis vinifera*;
 7 ♀, *Verbascum* sp, both 29.VI.1989-Geriş, 1 ♀, *Vitex agnus-castus*;
 3 ♀, *Helianthus annuus*; 3 ♀, *Sorghum vulgare*; 15 ♀, *Myrtus communis*;
 2 ♀, *Vitis vinifera*; 8 ♀, *Clematis* sp, all 29.VI.1989-Fersin, 1 ♀,
Lycopersicon esculentum, 29.VI.1989-Odabaşı, 1 ♀, *Olea europaea*,
 6.VII.1989-Ekşili, 1 ♀, *Lycopersicon esculentum*; 3 ♀, *Zea mays*; 1 ♀,
Myrtus communis; 3 ♀, *Nerium oleander*; 1 ♀, *Vitex agnus-castus*,
 all 6.VII.1989-Hatıpler, 1 ♀, *Gossypium hirsutum*; 1 ♀, *Olea europaea*;
 2 ♀, *Gossypium hirsutum*, 6.VII.1989-Kurşunlu, 1 ♀, *Zea mays*; 3 ♀,
Cucumis melo, both 6.VII. 1989-Çalış 1 ♀, *Vitis vinifera*, 6.VII.1989-
 Bucakşeyhler, 1 ♀, *Sesamum indicum*; 2 ♀, *Vitex agnus-castus*, both
 6.VII.1989-Yenice, 3 ♀, *Vitex agnus-castus*, 11.VII.1989-Korkuteli, 2 ♀
Phaseolus vulgaris; 1 ♀, *Vitis vinifera*; 6 ♀, *Prunus persica*; *Populus*
 sp, 2 ♀, *Salix* sp; 6 ♀, *Althea* sp, all 11.VII.1989-Mamatlar, 3 ♀, *Allium*
cepa; 2 ♀, *Phaseolus vulgaris*; 4 ♀, *Medicago sativa*; 1 ♀, *Malus*
communis; 1 ♀, *Beta vulgaris*; 1 ♀, *Pimpinella anisum*; 5 ♀, *Solanum*
tuberosum; 1 ♀, *Triticum aestivum* (ears), all 11.VII.1989-Sülekler,
 3 ♀ *Avena sativa*; 1 ♀, *Malus communis*; 1 ♀, *Solanum tuberosum*;
 7 ♀, *Pimpinella anisum*; 4 ♀, *Phaseolus vulgaris*; 3 ♀, *Prunus persica*;
 5 ♀, *Brassica oleracea* var *alba*; 4 ♀, *Lycopersicon esculentum*;

6 ♀, *Alhagi pseudoalhagi* all 11.VII.1989-Bereket, 1 ♀, *Oryza sativa*, 27.VII.1989-Mamalar, 3 ♀, *Myrtus communis*, 1 ♀, *Arachis hypogaea*; 1 ♀, *Gossypium hirsutum*, all 27.VI.1989-Avsallar, 1 ♀, *Musa paradisi*; 4 ♀, *Vigna sinensis*, both 27.VII.1989-Yeşilköy, 2 ♀, *Rosa* sp; 3 ♀, *Bougainvillea glabra*; 6 ♀, *Ricinus communis*; 1 ♀, *Vitex agnus-castus* all 27.VII.1989-Yenice, 1 ♀, *Genista* sp, 3.VII.1989-Çukurça, 2 ♀, *Zea mays*; 7 ♀. *Beta vulgaris*; 2 ♀, *Capsicum annum*, all 3.VIII.1989-Bozova, 1 ♀, *Helianthus annuus*; 1 ♀, *Vitis vinifera*; 1 ♀, *Prunus domestica*, all 3.VIII.1989-Çobanisa, *Vitis vinifera*, 3.VIII.1989-Doyran, 3 ♀, *Vitex agnus-castus*, 10.VIII.1989-Kurma, 1 ♀, *Arachis hypogaea*, 10.VIII.1989-Gedelme, 1 ♀, *Hypericum* sp, 10.VIII.1989-Koyunlar, 3 ♀, *Arachis hypogaea*; 1 ♀, *Sesamun indicum*, both 17.VIII.1989-Gaziler, 4 ♀, *Capsicum annum*, 17.VIII.1989-Beyler, 5 ♀, *Phaseolus vulgaris*; 1 ♀, *Malus communis*; 10 ♀ *Sorghum vulgare*; 2 ♀, *Solanum melongena*; 6 ♀, *Hibiscus esculentus*; 3 ♀, *Capsicum annum*, all 31.VIII.1989-Akçay, 3 ♀, *Vitis vinifera*; 8 ♀, *Beta vulgaris*; 1 ♀, *Prunus domestica*, all 31.VIII.1989-Elmalı, 6 ♀, *Zea mays*, 31.VIII.1989-Kuzköy, 4 ♀, *Tagetes* sp; 5 ♀ *Beta vulgaris*, both 31.VIII.1989-Gökpınar, 5 ♀, *Daucus carota*; 5 ♀, *Raphanus sativa*, both 31.VIII.1989-Öküzgözü, 1 ♀, *Amygdalus communis*, 31.VIII.1989-Gazipaşa, 1 ♀, *Arachis hypogaea*; 4 ♀, *Hibiscus esculentus*; 1 ♀ *Zea mays*; 1 ♀, *Musa paradisi*; 4 ♀, *Gossypium hirsutum*; 2 ♀, *Arachis hypogaea*, all 7.IX.1989-Koçağlanlı, 2 ♀, *Capsicum annum*; 1 ♀, *Vitex agnus-castus*, both 7.IX.1989-Mahmutlar, 5 ♀, *Musa paradisi*, 7.IX.1989-Göynük, 7 ♀, *Vitex agnus-castus*; 4 ♀, *Vigna sinensis*; 1 ♀, *Prunus persica*, 14.IX.1989-Adrasan, 1 ♂, 2 ♀, *Vitex agnus-castus*, 14.IX.1989-Bayatbademlisi, 2 ♀, *Capsicum annum*; 2 ♀, *Helianthus annuus*; 1 ♀, *Medicago sativa*; 8 ♀, *Zea mays*, 21.IX.1989-İmrakor, 1 ♀, *Prunus persica*; 1 ♀, *Malus communis*; 2 ♀, *Cydonia vulgaris*; 3 ♀, *Populus* sp; 2 ♀, *Juglans regia*; 2 ♀, *Pyrus communis* all 21.IX.1989-Kızılpınar, 5 ♀, *Prunus domestica*; 2 ♀, *Vitis vinifera*; 15 ♀ *Allium sativum*; 2 ♀, *Phaseolus vulgaris*; 2 ♀, *Capsicum annum*, all 21.IX.1989-Gölova, 1 ♀, *Pyrus communis*, 21.IX.1989-Gümüşyaka, 5 ♀, *Phaseolus vulgaris*; 1 ♀, *Malus communis*; 5 ♀, *Zea mays*, all 21.IX.1989-Manavgat, 1 ♀, *Arachis hypogaea*, 28.IX.1989-İbradı, *Corylus avellana*; 2 ♀ *Juglans regia*; 1 ♀, *Cornus mas*; 1 ♀, *Prunus persica*; 4 ♀, *Capsicum annum*; 1 ♀, *Solanum melongena*, 28.IX.1989-İbradı

(600 m), 1♀, *Quercus* sp: 3♂, 3♀, *Daphne* sp, both 28.IX.1989-Yazır (Korkuteli), 2♀, *Prunus persica*: 1♀, *Cydonia vulgaris*: 1♀, *Prunus armeniaca*, all 23.X.1989-Korkuteli, 6♀, *Morus alba*: 1♀, *Cydonia vulgaris*, 23.X.1989-Yelten, 2♀, *Cucurbita pepo*: 1♀, *Prunus avium*: 1♀, *Medicago sativa*: 3♀, *Raphanus sativa*: 1♀, *Solanum melongena*: 3♀, *Brassica oleracea* var. *alba*: 2♀, *Vitis vinifera*, all 23.X.1989-Kovanlık, 5♀, *Conyza canadensis*, 30.X.1989-Ekşili, 2♀, *Phaseolus vulgaris* 30.X.1989-Kurşunlu, 1♂, 7♀, *Allium sativum*: 1♀, *Phaseolus vulgaris*: 3♀, *Helianthus annuus*, all 30.X.1989-Çalkaya, 3♀, *Daphne gnidoides*: 1♀, *Bellis perennis*, both 30.X.1989-Kemerağzı, 2♀, *Zea mays*, 30.X.1989-Çağlayan, 1♀, *Apium graveolens* var. *dulce*, 30.X.1989-Duraliler, 1♀, *Tagetes* sp: 4♀, *Zea mays*: 8♀, *Conyza canadensis*: 5♂, 3♀, *Euphorbia* sp, all 10.IX.1989-Bahtılı, 1♀, *Eriobotrya japonica*: 1♀, *Rosa* sp: 2♀, *Euphorbia* sp: 4♀, *Allium porrum*: 2♀, *Cucurbita pepo*: 11♀, crucifer: 7♀, *Raphanus sativa*, all 10.XI.1989-Sütçüler, 4♀, *Conyza canadensis*, 27.XI.1989-Düden, 2♀, *Euphorbia polcherrima*: 11♀, *Dianthus caryophyllus*: 6♀, *Sonchus* sp, all 27.XI.1989-Varsak, 2♀, *Eriobotrya japonica*: 6♀, *Gladiolus* sp: 4♀, *Solanum melongena*, all 27.IX.1989-Kirişçiler, 3♀, *Clematis* sp, 27.XI.1989-Yenikent, 2♀, *Eucalyptus* sp, 27.IX.1989-Kızılalık, 9♀, *Eriobotrya japonica*: 1♀, *Solanum melongena*: 1♀, *Allium porrum*, all 27.XI.1989-Topçular, 1♀, *Lactuca sativa*: 6♀, *Brassica oleracea* var *alba*, both 27.IX.1989-Güzeloba, 3♀, *Zea mays*, 27.XI.1989-Koyunlar, 1♀, *Vicia faba*: 4♀, *Medicago sativa* both 27.IX.1989-Bahtılı, 1♀, *Eriobotrya japonica*: 3♀, *Allium porrum*: 2♀, *Laurus nobilis*: 1♀, grass: 2♀, grass, all 7.XII.1989-Çakırlar, 4♂, 10♀, *Euphorbia* sp: 2♀, *Asphodelus* sp: 3♀, *Calendula officinalis*: 1♀, *Clematis* sp: 2♀, *Raphanus raphanistrum*, all 7.XII.1989-Hacısekililer, *Euphorbia* sp: 1♀, *Ceratonia siliqua* both 7.IX.1989-Yenigöl, 5♀, *Allium porrum* 21.XII.1989-Dumanlar, 2♀, *Asphodelus* sp, 21.XII.1989-Gökçam, 1♀, *Asphodelus* sp: 5♀, *Narcissus tazette*, both 9.I.1990-Doyran, 1♀, *Asphodelus* sp, 9.I.1990-Aslanbucak, 4♀, *Calendula officinalis*, 9.O.190-Koyunlar, 1♀, *Cynara scolymus*: 6♀, *Allium porrum*: 26♀, *Pisum sativum*, all 25.I.1990-Kırcamisi, 1♀, *Allium cepa*: 1♀, *Capsella bursa-pastoris*: 2♀, *Cynara scolymus*: 3♀, *Mercurialis annua*, all 25.I.1990-Kampüs, 1♀, *Euphorbia* sp, 25.I.1990Bahtılı, 4♀, *Euphorbia*

sp; 3, ♀ *Capsella bursa-pastoris*: 1 ♀, *Calendula officinalis*: 1 ♀, *Raphanus raphanistrum*, all 9.II.1990-Çakırlar, 1 ♀, *Narcissus tazette*: 1 ♀, *Calendula officinalis*: 2 ♀, *Capsella bursa-pastoris*: 1 ♀, *Allium cepa*, all 9.II.1990-Kızıllık, 4 ♀, *Capsella bursa-pastoris*: 1 ♀, *Euphorbia* sp; 3 ♀ crucifer: 4 ♀, *Asphodelus* sp; 4 ♀, *Allium cepa*; 4 ♀, *Allium porrum*; 2 ♀, *Sonchus* sp; 1 ♀, *Raphanus raphanistrum*, all 21.II.1990-Perge, 10 ♀, *Asphodelus* sp, 21.II.1990-Dumanlar, 13 ♀, *Pisum sativum*; 1 ♀, *Apium graveolens* var *dulce*, both 21.II.1990-Boztepe, 20 ♀, *Medicago sativa*, 21.II.1990-Kumköy, 1 ♀, *Anemone* sp, 21.II.1990.

Habitat : Polyphag, pest on various agricultural crops, primarily on tobacco, onion and cotton.

Distribution : Cosmopolitan. All over Turkey.

Remarks : In coastal areas all year around on diverse plants. In inland was traced through whole sampling period, that is March-October. It is a pest of onion, garlic and leak; may cause damage to cotton in the seedling stage; greenhouse grown cucumber and squash are infested when pesticidal pressure ceased in Antalya.

***Thrips trehernei* Priesner**

Material examined: Yazır (Korkuteli), 1 ♀, *Cydonia vulgaris* (flowers), 5.V.1988-Düzlerçamı, 1 ♀, *Nerium oleander*, 16.VI.1989-

Habitat : Flowers of various plants, especially Compositae with yellow flowers.

Distribution : Euro-Siberian. All over Turkey, except Eastern and Southeastern Anatolia.

ÖZET

ANTALYA'nın THYSANOPTERA FAUNASI ÜZERİNDE ÇALIŞMALAR IV. Thripidae Stephens-3.

Thrips Linnaeus cinsine bağlı 8 türe ilişkin faunistik kayıtlara; habitatlarına ve dağılımlarına ilişkin bilgilere yer verilmektedir.

REFERENCE

Tunç, İ., 1988. Thysanoptera in a coastal Mediterranean winter. Ak.Ü.Zir.Fak. Derg., 2(1), 105-113.