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

İrfan TUNÇ\*\*

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; 10♂, 1♀, Euphorbia sp, both 30.III.1988-Tonguçlu, 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-earing);  
 1♂, *Triticum aestivum* (pre-earing), 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-Hatıpler, 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 10.11.1989-Çandır, 1 ♀, *Prunus persica*; 6 ♀, *Calycotome villosa*(flowers); 1 ♀, *Asphodelus* sp; 4 ♂, 5 ♀, *Prunus domestica*(flowers); 1 ♀, *Citrus* sp(flowers); 10.11.1989-Hasyurt, 5 ♀, *Prunus armeniaca*(flowers), 10.11.1989-Beşikçi, 4 ♀, *Calycotome villosa*, 10.11.1989-Akçapınar, 1 ♂, 20 ♀, *Prunus domestica*; 4 ♀, *Prunus domestica*; 4 ♀, *Prunus persica*, both 17.11.1989-Gebiz, 1 ♂, *Taraxacum* sp; 24 ♀, *Calycotome villosa*, both 17.11.1989-Abdurrahmanlar, 1 ♀, *Amygdalus communis*; 4 ♀, *Prunus armeniaca*; 1 ♀, *Vicia faba*, all 17.11.1989-Taşagıl, 2 ♀, *Prunus armeniaca*, 17.11.1989-Düzlerçamı, 1 ♀, *Ribes* sp; 2 ♀, *Colutea* sp. both 24.11.1989-Arif, 2 ♀, *Malus communis*(flowers); 1 ♀, *Prunus persica*(flowers); 6 ♀, *Pyrus communis* (flowers); 2 ♀, *Prunus avium*(flowers); 24.11.1989-Turunçova, 2 ♂, 26 ♀, *Citrus sinensis*(flowers), 24.11.1989-Hacıveliler, 2 ♂, 1 ♀, *Citrus sinensis* (flowers), 24.11.1989-Kayaburma, 6 ♂, 7 ♀ bush; 1 ♂, *Asphodelus* sp, 1 ♀, *Quercus cerris*; 1 ♀, *Tripleurosperma* sp; 7 ♀, *Prunus cerasus*, all 7.12.1989-Burmançı, 2 ♀, *Pisum aestivum* 7 ♀, *Morus alba*(flowers); 7 ♂, 9 ♀, *Citrus* sp(flowers); 2 ♀, *Prunus persica*; 1 ♂, 4 ♀, *Acacia cyanophylla*, all 7.12.1989-Kuşlar, 2 ♀, *Pyrus elaeagnifolia*(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-Söğütçük, 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-Söğütçük, 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 paradisii*, 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-Kemeragzı, ♀, *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.

Habibat : 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-Töngüşlü, 3 ♀, *Calycotome villosa*(flowers), 30.III.1988-Abdurrahmanlı, 10, 2 ♀ *Pyrus elaeagrifolia*(flowers), 30.III.1988- Nigit, 10, *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); 10, 1 ♀, *Raphanus raphanistrum*, both 10.III.1989-

Hasyurt, 1 ♀, *Ornithogalum* 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-Söğütçük, 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.

Habibat : Deciduous tree, particularly temperate fruits.

Distribution : Europe. Aegean and Central Anatolia regions of Turkey

Remarks: In coastal ares 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.

Habibat : 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♀, *Spirea* sp(flowers), Kumluca, 2♀, *Citrus* sp(flowers); 2♀, *Raphanus* sp; 4♀, *Raphanus raphanistrum*, all 6.IV.1988-Turunçova, 1♀, *Euphorbia helioscopia*; 4♀ *Citrus* sp(Flowes); 2♀, *Matricaria chamomilla*, all 6.IV.1988-Mavikent, 1♀, *Citrus* sp (flowers), 6.IV.1988-Yazır (Kumluca), 1♀, *Triticum aestivum* (pre-eating), 6.IV.1988-Duraliler, 3♀, *Prunus persica*(flowers), 11.IV.1988-Korkuteli, 1♀, *Triticum aestivum* (pre-eating); 2♀, *Capsella bursa-pastoris*. both 13.IV.1988-Serik, 4♀, *Vicia sativa*(flowers), 20.IV.1988-Çolaklı, 1♀, *Gladiolus* sp, 20.IV.1988-Başkonak, 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-eating), 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-Kemeragzı, 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 annum*; 18♀, *Daucus carota*, all 25.VIII.1988-Yurtpınar,  
 2♀ *Gossypium hirsutum*, 7.IX.1988-lhsaniye, 1♀, *Lytrum* sp, 8.IX.1988-  
 Alanya, 1♀, *Musa paradisii*, 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; 10♂, *Citrus* sp(flowers); 1  
*Raphanus raphanistrum*, all 10.III.1989-Hasyurt, 5♀, *Koelpina* sp;  
11♀, *Ornithogalum* sp; 5♀, *Cucumis sativus*, all 10.III.1989-Beşikçi,  
4♀, cereal (pre-eating), 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-  
Kemeragzı, 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-eating), 24.III.1989-Hacive-  
liler, 8♀, *Raphanus raphanistrum*; 20♂, 10♀, *Ranunculus* sp, both  
24.III.1989-Kayaburma, 3♀, *Triticum aestivum*(ears); 10♀, *Asphodelus*  
sp; 2♀, *Quercus cerris*; 1♀, *Tripleurosperma* sp, 1♀, compositi; 1♀  
compositi; 1♀, *Phaseolus vulgaris*, all 7.IV.1989-Burmancı, 2♀, *Pisum*  
*sativum*; 10♂, *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-Düzlerçamı, 2 ♀, *Nerium oleander*, 4.V.1989-Yenice, 4 ♀, *Paliurus spina-christi*; 1 ♀, *Hordeum vulgare* (ears), both 4.V.1989-Söğütçük, 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-Altınyaka, 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-Kırgözhane, 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 annuum*; 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 ♀, *Sesamum 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-İmrâhor, 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-Kemeragzı, 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-Kızılarık, 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♀, *Plum 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-Kızılarık, 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.