

**A COMPARATIVE LIST OF THE LEAF BEETLES OF THE  
PROVINCES IN MARMARA REGION OF TURKEY,  
EXCLUDING BRUCHINAE  
(COLEOPTERA: CHRYSOMELIDAE)**

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**[Özdikmen, H. 2016. A comparative list of the leaf beetles of the provinces in Marmara Region of Turkey, excluding Bruchinae (Coleoptera: Chrysomelidae). Munis Entomology & Zoology, 11 (2): 682-690]**

ABSTRACT: This work is presented a comparative list of the leaf beetles of the provinces in Marmara Region of Turkey, excluding Bruchinae. All known taxa from the provinces in Marmara Region of Turkey and thereby European Turkey are given in the present text.

KEY WORDS: Coleoptera, Cerambycidae, European Turkey, Marmara Region, Turkey

Any direct research on leaf beetles in Marmara Region of Turkey is not present. Therefore fauna of leaf beetles in Marmara Region of Turkey is not sufficiently known. Chiefly, a complete faunistic information about all the leaf beetle taxa established in European Turkey in Marmara Region of Turkey was firstly published by Löbl & Smetana (2010) in their Palaearctic catalogue of Chrysomeloidea.

Then, an important study titled "Checklist of leaf beetles (Coleoptera: Chrysomelidae) of Turkey, excluding Bruchinae" was published by Ekiz et al. (2013). Later works were published by Özdikmen (2014a,b,c), Özdikmen & Kaya (2014), Özdikmen & Mercan (2014), Özdikmen & Cihan (2014), Özdikmen & Özbek (2014), Özdikmen & Kavak (2014) and Özdikmen & Topcu (2014). Although the mentioned studies helped to determine the list of leaf beetles from the provinces in Marmara Region of Turkey, the list needs further corrections to be fully and correctly realized.

Consequently a comparative list of the leaf beetles of the provinces in Marmara Region of Turkey, excluding Bruchinae, is provided with this work.

**MATERIAL AND METHOD**

The material is the published works of Löbl & Smetana (2010), Ekiz et al. (2013), Özdikmen (2014a,b,c), Özdikmen & Kaya (2014), Özdikmen & Mercan (2014), Özdikmen & Cihan (2014), Özdikmen & Özbek (2014), Özdikmen & Kavak (2014) and Özdikmen & Topcu (2014).

During this study, no collected specimens from any locations has been used. Firstly, I examined the mentioned literatures and I determined leaf beetles living in the provinces in Marmara Region of Turkey. After this I prepared a comparative list according to obtained information.

**COVERED GEOLOGICAL AREA OF THE PRESENT WORK**

The research area of the present work covers the Marmara Region. As seen below, the Marmara Region of Turkey includes 2 main divisions and 5 parts: 1. European Turkey (=East Thrace) includes 4 parts as Ergene, Istranca, Çatalca and

South Marmara bordered by territory of Greece, Bulgaria (partly) and the Aegean Sea in the West, Asian Turkey (= North-West Anatolia) in the East, Bulgaria and Black Sea in the North and Marmara Sea and remaining parts of Asian Turkey (= North-West Anatolia) in the South. 2. Asian Turkey (= North-West Anatolia) includes 2 parts as Kocaeli and South Marmara bordered by European Turkey, Marmara Sea and Aegean Sea in the West, Western Black Sea Region in the East, Black Sea and European Turkey in the North and Aegean Region in the South.

Turkey is divided into 7 regional parts commonly. The Marmara Region includes several parts as follows:

**Marmara Region** (North-West Turkey)

A. European Turkey (= East Thrace)

1. Ergene Part (including Edirne and Tekirdağ provinces)
2. Istranca Part (including Kırklareli province)
3. Çatalca Part (including İstanbul province)
4. South Marmara Part (Çanakkale province: Gelibolu Peninsula)

B. Asian Turkey (=North-West Anatolia)

1. Kocaeli Part (including Kocaeli and Sakarya provinces)
2. South Marmara Part (including Bilecik, Yalova, Bursa, Balıkesir and Çanakkale provinces)

**RESULTS AND DISCUSSIONS**

**LIST OF THE TAXA ESTABLISHED IN THE PROVINCES IN MARMARA REGION OF TURKEY:**

(**Abbreviations:** **ATR** – Asian Turkey, **ETR** – European Turkey, **BAL** – Balıkesir province, **BIL** – Bilecik province, **BUR** – Bursa province, **CAN** – Çanakkale province, **EDI** – Edirne province, **IST** – İstanbul province, **KRK** – Kırklareli province, **KOC** – Kocaeli province, **SAK** – Sakarya province, **TEK** – Tekirdağ province, **YAL** – Yalova province).

Names of taxa	B A L	B I L	B U R	C A N	E D I	I S T	K R K	K O C	S A K	T E K	Y A L	E T R	A T R
<b>MEGALOPODIDAE Latreille</b>													
<b>ZEUGOPHORINAE Böv. &amp; Craighead</b>													
<i>Zeugophora subspinosa</i> (Fabricius)						+							+
<b>ORSODACNIDAE Thomson</b>													
<b>ORSODACNINAE Thomson</b>													
<i>Orsodacne humeralis</i> Latreille													+
<b>CHRYSOMELIDAE Latreille</b>													
<b>DONACIINAE Kirby</b>													
<i>Donacia clavipes</i> Fabricius													+
<i>Donacia marginata</i> Hoppe						+							+
<i>Donacia simplex</i> Fabricius						+							+
<i>Donacia thalassina</i> Germar													+
<i>Plateumaris sericea</i> (Linnaeus)						+							+
<b>CRIOCERINAE Latreille</b>													
<i>Crioceris duodecimpunctata</i> (Linnaeus)													+
<i>Crioceris paracenthesis</i> (Linnaeus)						+							+

Names of taxa	B A L	B I L	B U R	C A N	E D I	I S T	K R K	K O C	S A K	T E K	Y A L	E T R	A T R
<i>Lilioeris faldermanni</i> (Guérin-Ménéville)													+
<i>Oulema melanopus</i> (Linnaeus)				+	+		+			+			+
<b>CLYTRINAE Kirby</b>													
<i>Clytra atraphaxidis atraphaxidis</i> (Pallas)					+								+
<i>Clytra bodemeyeri bodemeyeri</i> Weise		+											+
<i>Clytra laeviuscula</i> Ratzeburg									+				+
<i>Clytra nigrocincta nigrocincta</i> (Lacordaire)						+							+
<i>Clytra novempunctata</i> Olivier													+
<i>Clytra valeriana valeriana</i> (Ménétriés)													+
<i>Coptocephala destinoi</i> Fairmaire	+			+	+								+
<i>Coptocephala gebleri</i> (Gebler)				+									+
<i>Coptocephala unifasciata unifasciata</i> (Scopoli)	+			+									+
<i>Labidostomis asiatica</i> Faldermann	+	+											+
<i>Labidostomis axillaris</i> Lacordaire					+	+							+
<i>Labidostomis karamanica</i> Weise		+											+
<i>Labidostomis longimana</i> (Linnaeus)	+	+			+		+			+			+
<i>Labidostomis mesopotamica</i> Heyden		+	+					+					+
<i>Labidostomis oertzeni</i> Weise						+	+						+
<i>Labidostomis pallidipennis</i> (Gebler)						+							+
<i>Labidostomis propinqua</i> Faldermann						+		+	+				+
<i>Labidostomis rufa</i> (Waltl)		+	+			+	+						+
<i>Labidostomis sulcicollis</i> Lacordaire						+							+
<i>Lachnaia sexpunctata</i> (Scopoli)		+	+						+				+
<i>Macrolenes dentipes</i> (Olivier)	+		+	+									+
<i>Smaragdina aurita aurita</i> (Linnaeus)						+							+
<i>Smaragdina hypocrita</i> (Lacordaire)			+			+							+
<i>Smaragdina limbata</i> (Steven)	+	+	+	+		+	+		+	+			+
<i>Smaragdina salicina</i> (Scopoli)						+							+
<i>Smaragdina tibialis</i> (Brullé)			+		+	+	+		+				+
<i>Smaragdina xanthaspis</i> (Germar)	+	+	+		+				+				+
<i>Tituboea macropus</i> (Illiger)				+	+	+							+
<b>CRYPTOCEPHALINAE Gyllenhal</b>													
<i>Cryptocephalus anticus</i> Suffrian		+	+	+			+	+	+	+			+
<i>Cryptocephalus apicalis</i> Gebler													+
<i>Cryptocephalus bameuli</i> Duhaldeborde													+
<i>Cryptocephalus biledjekensis</i> Pic		+											+
<i>Cryptocephalus bipunctatus bipunctatus</i> (Linnaeus)	+		+	+	+		+						+
<i>Cryptocephalus connexus</i> Olivier	+	+	+						+	+			+
<i>Cryptocephalus cribratus</i> Suffrian		+				+							+
<i>Cryptocephalus chrysopus</i> Gmelin													+
<i>Cryptocephalus duplicatus</i> Suffrian		+	+			+	+	+	+	+			+
<i>Cryptocephalus elegantulus</i> Gravenhorst													+
<i>Cryptocephalus exiguus amicus</i> Baly			+										+
<i>Cryptocephalus exiguus variceps</i> Weise						+			+				+
<i>Cryptocephalus flavipes</i> Fabricius			+	+	+	+				+			+
<i>Cryptocephalus fulvus fulvus</i> Goeze				+	+		+						+
<i>Cryptocephalus ilicis</i> Olivier	+		+			+	+						+
<i>Cryptocephalus janthinus</i> Germar				+			+						+
<i>Cryptocephalus labiatus</i> (Linnaeus)													+
<i>Cryptocephalus macellus</i> Suffrian	+	+		+		+			+				+
<i>Cryptocephalus moraei</i> (Linnaeus)		+	+	+			+		+	+			+



Names of taxa	B A L	B I L	B U R	C A N	E D I	I S T	K R K	K O C	S A K	T E K	Y A L	E T R	A T R	
<i>Chrysolina olivieri olivieri</i> Bedel													+	
<i>Chrysolina oricalcia</i> (Müller)													+	
<i>Chrysolina orientalis orientalis</i> (Olivier)		+	+			+							+	+
<i>Chrysolina polita polita</i> (Linnaeus)							+						+	
<i>Chrysolina reitteri</i> (Weise)		+											+	
<i>Chrysolina salviae salviae</i> (Germar)		+											+	+
<i>Chrysolina sanguinolenta</i> (Linnaeus)						+							+	+
<i>Chrysolina songarica</i> Gebler						+	+						+	+
<i>Chrysolina sturmi</i> Westhoff													+	
<i>Chrysolina turca</i> (Fairmaire)			+			+							+	+
<i>Chrysolina vernalis ottomana</i> (Weise)				+		+				+			+	+
<i>Chrysomela populi</i> Linnaeus		+				+		+					+	+
<i>Chrysomela tremula tremula</i> Fabricius			+	+	+	+		+					+	+
<i>Chrysomela vigintipunctata vigintipunctata</i> (Scopoli)		+	+	+		+		+					+	+
<i>Colaphellus sophiae transsylvanicus</i> Machatschke				+	+	+							+	+
<i>Entomoscelis adonidis</i> (Pallas)													+	
<i>Gastrophysa polygoni polygoni</i> (Linnaeus)					+	+							+	+
<i>Gonioctena decemnotata</i> Marsham	+					+							+	+
<i>Gonioctena linnaeana linnaeana</i> (Schrank)													+	
<i>Gonioctena viminalis viminalis</i> (Linnaeus)													+	
<i>Gonioctena fornicata</i> (Brüggemann)		+											+	+
<i>Leptinotarsa decemlineata</i> (Say)			+	+						+			+	+
<i>Neophaedon pyritosus</i> (Rossi)						+							+	+
<i>Phaedon cochleariae cochleariae</i> (Fabricius)							+						+	
<i>Phratora vulgatissima</i> (Linnaeus)													+	
<i>Phratora vitellinae</i> (Linnaeus)		+	+		+	+		+	+				+	+
<i>Plagioderma versicolora</i> (Laicharting)			+		+	+	+	+	+		+		+	+
<i>Plagiosterna aenea aenea</i> (Linnaeus)	+			+		+							+	+
<i>Prasocuris flavocincta</i> (Brullé)						+							+	+
<i>Prasocuris phellandri</i> (Linnaeus)						+	+						+	+
<i>Timarcha olivieri olivieri</i> (Fairmaire)						+							+	+
<i>Timarcha pratensis</i> Duftschmid						+							+	+
<i>Timarcha rugulosa rugulosa</i> Herrich-Schäffer													+	
<i>Timarcha tenebricosa</i> (Fabricius)													+	
<b>GALERUCINAE Latreille</b>														
<i>Agelastica alni alni</i> (Linnaeus)	+		+			+	+	+	+				+	+
<i>Diorhabda elongata</i> (Brullé)					+								+	
<i>Galeruca circassica</i> Reitter				+									+	
<i>Galeruca melanocephala</i> (Ponza)													+	
<i>Galeruca pomonae pomonae</i> (Scopoli)				+									+	
<i>Galerucella calmariensis</i> (Linnaeus)						+							+	+
<i>Galerucella lineola lineola</i> (Fabricius)						+		+					+	+
<i>Galerucella pusilla</i> Duftschmid		+		+				+					+	
<i>Lochmaea caprea</i> (Linnaeus)				+		+							+	+
<i>Luperus graecus</i> Weise													+	
<i>Phyllobrotica adusta adusta</i> (Creutzer)					+		+			+			+	
<i>Phyllobrotica elegans</i> Kraatz			+			+							+	+
<i>Phyllobrotica frontalis</i> Weise			+			+							+	
<i>Xanthogaleruca luteola</i> (Müller)	+	+								+			+	





Names of taxa	B A L	B I L	B U R	C A N	E D I	I S T	K R K	K O C	S A K	T E K	Y A L	E T R	A T R
<i>Psylliodes wachsmanni</i> Csiki													+
<i>Sphaeroderma rubidum</i> (Graells)						+							+
<b>HISPINAE Gyllenhal</b>													
<i>Hispa atra</i> Linnaeus	+		+	+		+		+	+		+	+	+
<i>Diclidispa testacea</i> Linnaeus			+			+			+				+
<b>CASSIDINAE Gyllenhal</b>													
<i>Cassida atrata</i> Fabricius			+		+								+
<i>Cassida bella</i> Faldermann									+				+
<i>Cassida berolinensis</i> Suffrian		+											+
<i>Cassida brevis</i> Weise													+
<i>Cassida fausti</i> Spaeth & Reitter					+								+
<i>Cassida ferruginea</i> Goeze									+				+
<i>Cassida hablitziae</i> Motschulsky						+							+
<i>Cassida inquinata</i> Brullé	+		+	+	+		+			+			+
<i>Cassida murraea murraea</i> Linnaeus					+				+	+			+
<i>Cassida nebulosa</i> Linnaeus	+		+	+					+				+
<i>Cassida nobilis</i> Linnaeus	+			+				+	+				+
<i>Cassida palaestina</i> Reiche			+										+
<i>Cassida pannonica</i> Suffrian	+	+	+										+
<i>Cassida prasina</i> Illiger	+	+					+		+				+
<i>Cassida rubiginosa rubiginosa</i> Müller	+		+		+		+		+	+			+
<i>Cassida sanguinolenta</i> Müller		+											+
<i>Cassida saucia</i> Weise	+												+
<i>Cassida seraphina</i> Ménétré	+	+	+			+			+				+
<i>Cassida stigmatica</i> Suffrian				+									+
<i>Cassida vibex</i> Linnaeus													+
<i>Cassida viridis</i> Linnaeus	+			+					+	+			+
<i>Cassida vittata</i> Villers	+												+
<i>Hypocassida subferruginea</i> (Schrank)	+	+	+	+	+	+		+	+	+			+

The number of the leaf beetle taxa established in **European Turkey (= East Thracia)** in Marmara Region of Turkey is 220. 59 of them were reported without exact locality or province.

The number of the leaf beetle taxa established in **Asian Turkey (North-West Anatolia)** in Marmara Region of Turkey is 210.

The number of the leaf beetle taxa established in whole territory of **Marmara Region** of Turkey is 281.

The number of the leaf beetle taxa established in each of the provinces in whole territory of Marmara Region of Turkey is as follows:

**European Turkey (= East Thracia)**

Çanakkale province (Gelibolu Peninsula) – 1, Edirne province – 57, İstanbul province – 51, Kırklareli province – 47, Tekirdağ province – 19, Without exact locality or province – 59.

**Asian Turkey (North-West Anatolia)**

Balıkesir province – 43, Bilecik province – 56, Bursa province – 67, Çanakkale province – 41, İstanbul province – 119, Kocaeli province – 29, Sakarya province – 38, Yalova province – 6.

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