

RESEARCH OF AQUATIC COLEOPTERA FAUNA OF THE INNER WESTERN ANATOLIA, PART - I (ADEPHAGA)

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ABSTRACT: 4327 specimens belonging to the adepghan water beetles were collected by area studies between April-September in 2007-2009 in provinces of Afyon, Denizli, Kütahya and Uşak locate in Inner Western Anatolia of Turkey. As a result of identification of these specimens, 77 species group taxa (72 species and 5 subspecies) of 25 genera of 4 families belong to the order Coleoptera were determined (Gyrinidae: 9 species; Haliplidae: 8 species; Noteridae: 1 species; Dytiscidae: 54 species and 5 subspecies).

KEY WORDS: Aquatic Coleoptera, Fauna, Inner Western Anatolia, Turkey.

Water beetles are important members of many freshwater aquatic ecosystems. Some adepghan aquatic beetles from the region were recorded by Guéorguiev (1981), Wewalka (1989), Fery & Hosseinie (1998), Fery & Petrov (2005) and Kiyak et al. (2006; 2007). This study is a part of PhD thesis research of Darılmaz (2010). In this study, aquatic beetles of the families Gyrinidae, Haliplidae, Noteridae, and Dytiscidae, were sampled in the Afyon, Denizli, Kütahya and Uşak in Western Anatolia in 2007 and 2009.

MATERIAL AND METHODS

Samples were collected from various water bodies with a sieve, a ladle and a net having a mesh size of one millimeter. The specimens were preserved with 70 % alcohol, and in the laboratory they were cleaned off from clayey and muddy substances with a small paintbrush.

The list of localities is shown in Table 1 and Figure 1.

RESULTS

Gyrinidae Latreille, 1810

***Gyrinus caspius* Ménériés, 1832**

Material examined: BE138: 5 ex.; BE208: 3 ex.; BE212: 1 ex.; BE235: 1 ex.; BE239: 4 ex.; BE250: 2 ex.; BE252: 1 ex.

***Gyrinus colymbus* Erichson, 1837**

Material examined: BE81: 4 ex.; BE220: 2 ex.

***Gyrinus dejeani* Brullé, 1832**

Material examined: BE212: 8 ex.

***Gyrinus distinctus* Aubé, 1838**

Material examined: BE102: 1 ex.; BE168: 30 ex.; BE235: 7 ex.; BE239: 10 ex.; BE247: 1 ex.; BE252: 1 ex.

***Gyrinus paykulli* G. Ochs, 1927**

Material examined: BE243: 2 ex.

***Gyrinus substriatus* Stephens, 1828**

Material examined: BE1: 4 ex.; BE33: 1 ex.; BE54: 12 ex.; BE58: 4 ex.; BE59: 1 ex.; BE194: 2

ex.; BE249: 3 ex.

***Gyrinus suffriani* W. Scriba, 1855**

Material examined: BE138: 3 ex.; BE220: 4 ex.; BE235: 3 ex.; BE261: 2 ex.

***Gyrinus urinator* Illiger, 1807**

Material examined: BE138: 1 ex.; BE212: 1 ex.

***Orectochilus villosus* (O.F. Müller, 1776)**

Material examined: BE25: 2 ex.; BE191: 1 ex.

Haliplidae Kirby, 1837

***Haliplus (Haliplus) heydeni* Wehncke, 1875**

Material examined: BE3: 1 ex.; BE54: 3 ex.; BE78: 9 ex.; BE118: 1 ex.; BE192: 17 ex.; BE201: 1 ex.; BE221: 12 ex.

Remarks: This species has been published as a exact locality for the fauna of Turkey (Darılmaz & Kiyak, 2010).

***Haliplus (Haliplus) ruficollis* (De Geer, 1774)**

Material examined: BE138: 18 ex.; BE153: 9 ex.; BE186: 2 ex.; BE199: 1 ex.; BE212: 9 ex.; BE250: 6 ex.

***Haliplus (Liaphlus) flavicollis* Sturm, 1834**

Material examined: BE26: 22 ex.

Remarks: This species has been published as a exact locality for the fauna of Turkey (Darılmaz & Kiyak, 2010).

***Haliplus (Liaphlus) fulvus* (Fabricius, 1801)**

Material examined: BE7: 1 ex.; BE131: 3 ex.; BE138: 1 ex.

***Haliplus (Liaphlus) laminatus* (Schaller, 1783)**

Material examined: BE55: 1 ex.

Remarks: This species has been published as a new record for the fauna of Turkey (Darılmaz & Kiyak, 2010).

***Haliplus (Liaphlus) mucronatus* Stephens, 1828**

Material examined: BE139: 5 ex.; BE208: 3 ex.

***Haliplus (Neohaliplus) lineatocollis* (Marsham, 1802)**

Material examined: BE108: 3 ex.

***Peltodytes caesus* (Duftschmid, 1805)**

Material examined: BE3: 1 ex.; BE7: 1 ex.; BE77: 1 ex.; BE78: 3 ex.; BE98: 1 ex.; BE104: 2 ex.; BE124: 4 ex.; BE127: 1 ex.; BE136: 1 ex.; BE138: 2 ex.; BE161: 1 ex.; BE162: 12 ex.; BE167: 1 ex.; BE170: 2 ex.; BE174: 1 ex.; BE199: 4 ex.; BE201: 8 ex.; BE212: 5 ex.; BE221: 7 ex.; BE224: 3 ex.; BE235: 1 ex.; BE236: 1 ex.; BE245: 1 ex.; BE250: 10 ex.

Noteridae C.G. Thomson, 1860

***Noterus clavicornis* (De Geer, 1774)**

Material examined: BE2: 22 ex.; BE3: 5 ex.; BE7: 2 ex.; BE8: 4 ex.; BE18: 5 ex.; BE26: 10 ex.; BE27: 23 ex.; BE34: 3 ex.; BE36: 4 ex.; BE37: 22 ex.; BE43: 1 ex.; BE47: 7 ex.; BE50: 1 ex.; BE76: 4 ex.; BE77: 12 ex.; BE78: 3 ex.; BE79: 2 ex.; BE80: 8 ex.; BE87: 17 ex.; BE88: 7 ex.; BE97: 3 ex.; BE106: 1 ex.; BE108: 12 ex.; BE116: 9 ex.; BE117: 11 ex.; BE124: 4 ex.; BE131: 4 ex.; BE135: 19 ex.; BE137: 7 ex.; BE138: 9 ex.; BE139: 12 ex.; BE142: 9 ex.; BE143: 4 ex.; BE148: 1 ex.; BE152: 12 ex.; BE153: 10 ex.; BE155: 8 ex.; BE156: 8 ex.; BE157: 2 ex.; BE159: 1 ex.; BE162: 8 ex.; BE163: 4 ex.; BE164: 3 ex.; BE167: 2 ex.; BE169: 4 ex.; BE170: 11 ex.; BE178: 3 ex.; BE180: 4 ex.; BE186: 4 ex.; BE193: 4 ex.; BE199: 1 ex.; BE201: 5 ex.; BE208: 40 ex.; BE209: 40 ex.; BE211: 10 ex.; BE212: 28 ex.; BE217: 1 ex.; BE219: 16 ex.; BE220: 36 ex.; BE221: 12 ex.; BE228: 14 ex.; BE231: 13 ex.; BE232: 43 ex.; BE235: 38 ex.; BE236: 3 ex.; BE237: 5 ex.; BE240: 7 ex.; BE244: 2 ex.; BE250: 8 ex.; BE251: 2 ex.; BE253: 9 ex.; BE254: 1 ex.; BE260: 2 ex.; BE261: 5 ex.

Dytiscidae Leach, 1815

***Agabus (Agabus) labiatus* (Brahm, 1790)**

Material examined: BE235: 1 ex.; BE241: 8 ex.; BE246: 8 ex.

***Agabus (Gaurodytes) biguttatus* (Olivier, 1795)**

Material examined: BE5: 3 ex.; BE128: 1 ex.; BE140: 4 ex.; BE234: 4 ex.; BE235: 2 ex.

***Agabus (Gaurodytes) bipustulatus* (Linnaeus, 1767)**

Material examined: BE12: 3 ex.; BE24: 1 ex.; BE35: 2 ex.; BE37: 1 ex.; BE40: 1 ex.; BE52: 9 ex.; BE59: 3 ex.; BE64: 10 ex.; BE65: 8 ex.; BE73: 28 ex.; BE75: 6 ex.; BE87: 10 ex.; BE96: 20 ex.; BE98: 1 ex.; BE99: 26 ex.; BE100: 1 ex.; BE106: 13 ex.; BE120: 3 ex.; BE138: 1 ex.; BE146: 1 ex.; BE157: 3 ex.; BE159: 15 ex.; BE179: 9 ex.; BE180: 2 ex.; BE190: 2 ex.; BE192: 1 ex.; BE193: 1 ex.; BE201: 7 ex.; BE212: 3 ex.; BE240: 1 ex.; BE246: 19 ex.; BE255: 23 ex.; BE256: 1 ex.

Remarks: Some *A. bipustulatus* samples were recorded by Darılmaz & Kiyak (2010) as *A. striolatus* because of similarities between these species.

***Agabus (Gaurodytes) conspersus* (Marsham, 1802)**

Material examined: BE11: 2 ex.; BE14: 1 ex.; BE28: 1 ex.; BE37: 1 ex.; BE38: 1 ex.; BE41: 1 ex.; BE57: 2 ex.; BE64: 5 ex.; BE71: 2 ex.; BE73: 7 ex.; BE96: 1 ex.; BE99: 19 ex.; BE100: 1 ex.; BE128: 2 ex.; BE150: 1 ex.; BE151: 1 ex.; BE155: 12 ex.; BE158: 1 ex.; BE159: 5 ex.; BE160: 15 ex.; BE162: 3 ex.; BE179: 1 ex.; BE216: 1 ex.; BE235: 3 ex.; BE246: 17 ex.; BE255: 4 ex.

***Agabus (Gaurodytes) didymus* (Olivier, 1795)**

Material examined: BE27: 1 ex.; BE29: 1 ex.; BE55: 1 ex.; BE58: 6 ex.; BE59: 5 ex.; BE64: 4 ex.; BE90: 1 ex.; BE99: 2 ex.; BE194: 1 ex.

***Agabus (Gaurodytes) guttatus* (Paykull, 1798)**

Material examined: BE11: 3 ex.; BE33: 1 ex.; BE35: 1 ex.; BE40: 1 ex.; BE60: 1 ex.; BE99: 7 ex.; BE101: 5 ex.; BE128: 1 ex.; BE134: 2 ex.; BE140: 3 ex.; BE158: 2 ex.; BE166: 2 ex.; BE179: 4 ex.; BE234: 16 ex.; BE235: 1 ex.; BE239: 9 ex.

***Agabus (Gaurodytes) nebulosus* (Forster, 1771)**

Material examined: BE20: 1 ex.; BE36: 1 ex.; BE47: 1 ex.; BE99: 3 ex.; BE128: 2 ex.; BE149: 2 ex.; BE159: 2 ex.; BE165: 3 ex.; BE230: 12 ex.; BE231: 2 ex.; BE234: 1 ex.; BE236: 1 ex.; BE241: 9 ex.; BE246: 4 ex.; BE247: 6 ex.; BE255: 2 ex.

***Ilybius ater* (De Geer, 1774)**

Material examined: BE77: 1 ex.; BE159: 2 ex.; BE186: 2 ex.; BE199: 1 ex.; BE220: 2 ex.; BE226: 1 ex.; BE235: 6 ex.; BE251: 3 ex.; BE261: 2 ex.

Remarks: This species has been published as a new record for the fauna of Turkey (Darılmaz & Kiyak, 2009).

***Ilybius chalconatus* (Panzer, 1796)**

Material examined: BE229: 29 ex.; BE235: 1 ex.; BE239: 1 ex.; BE246: 22 ex.

***Ilybius fuliginosus* (Fabricius, 1792)**

Material examined: BE54: 9 ex.; BE118: 4 ex.; BE186: 2 ex.; BE199: 2 ex.

***Ilybius quadriguttatus* (Lacordaire, 1835)**

Material examined: BE159: 1 ex.; BE220: 3 ex.; BE235: 5 ex.; BE251: 2 ex.

***Platambus lunulatus* (Fischer von Waldheim, 1829)**

Material examined: BE102: 1 ex.; BE122: 4 ex.; BE168: 2 ex.

***Platambus maculatus* (Linnaeus, 1758)**

Material examined: BE25: 2 ex.; BE51: 1 ex.; BE65: 3 ex.; BE83: 9 ex.; BE123: 9 ex.; BE171: 2 ex.; BE175: 11 ex.; BE191: 3 ex.

***Colymbetes fuscus* (Linnaeus, 1758)**

Material examined: BE40: 1 ex.; BE47: 1 ex.; BE58: 3 ex.; BE64: 1 ex.; BE127: 1 ex.; BE157: 1 ex.; BE159: 9 ex.; BE186: 4 ex.; BE192: 1 ex.; BE193: 38 ex.; BE197: 1 ex.; BE201: 5 ex.; BE237: 1 ex.; BE239: 2 ex.; BE245: 1 ex.; BE246: 3 ex.; BE247: 7 ex.; BE250: 1 ex.; BE253: 1 ex.; BE261: 3 ex.

***Rhantus (Nartus) grapii* (Gyllenhal, 1808)**

Material examined: BE220: 1 ex.; BE235: 13 ex.; BE251: 1 ex.

Remarks: This species has been published as a new record for the fauna of Turkey (Darılmaz & Kiyak, 2010).

***Rhantus (Rhantus) suturalis* (W.S. MacLeay, 1825)**

Material examined: BE54: 1 ex.; BE118: 2 ex.

***Liopterus haemorrhoidalis* (Fabricius, 1787)**

Material examined: BE157: 12 ex.; BE159: 4 ex.; BE235: 2 ex.; BE251: 2 ex.

***Graphoderus austriacus* (Sturm, 1834)**

Material examined: BE140: 1 ex.; BE220: 3 ex.; BE251: 4 ex.

Remarks: This species has been published as a new record for the fauna of Turkey (Darılmaz & Kiyak, 2010).

***Graphoderus cinereus* (Linnaeus, 1758)**

Material examined: BE142: 1 ex.; BE186: 1 ex.; BE193: 1 ex.; BE214: 1 ex.; BE220: 13 ex.; BE235: 24 ex.; BE251: 6 ex.; BE261: 2 ex.

***Cybister (Cybister) lateralimarginalis torquatus* (Fischer von Waldheim, 1829)**

Material examined: BE7: 2 ex.; BE34: 2 ex.; BE77: 5 ex.; BE79: 3 ex.; BE80: 1 ex.; BE137: 3 ex.; BE138: 2 ex.; BE156: 3 ex.; BE186: 1 ex.; BE193: 1 ex.; BE213: 1 ex.; BE220: 1 ex.; BE226: 4 ex.; BE227: 9 ex.; BE235: 1 ex.; BE236: 3 ex.; BE242: 16 ex.; BE243: 15 ex.; BE251: 5 ex.; BE261: 1 ex.

***Dytiscus dimidiatus* Bergsträsser, 1778**

Material examined: BE220: 3 ex.; BE235: 6 ex.; BE251: 1 ex.

***Dytiscus marginalis* Linnaeus, 1758**

Material examined: BE90: 1 ex.; BE156: 1 ex.; BE189: 2 ex.; BE201: 1 ex.

***Dytiscus semisulcatus* O.F. Müller, 1776**

Material examined: BE73: 1 ex.; BE96: 1 ex.

***Hydaticus (Hydaticus) seminiger* (DeGeer, 1774)**

Material examined: BE98: 2 ex.; BE201: 1 ex.

Remarks: This species has been published as a new record for the fauna of Turkey (Darılmaz & Kiyak, 2009).

***Hydaticus (Hydaticus) transversalis laevisculptus* Zaitzev, 1910**

Material examined: BE57: 1 ex.; BE70: 1 ex.; BE156: 2 ex.; BE170: 1 ex.; BE186: 1 ex.; BE199: 1 ex.; BE212: 2 ex.; BE220: 10 ex.; BE235: 25 ex.; BE251: 11 ex.; BE261: 5 ex.

***Bidessus calabricus* Guignot, 1957**

Material examined: BE60: 1 ex.; BE106: 6 ex.; BE108: 1 ex.; BE113: 1 ex.; BE183: 1 ex.

***Bidessus nasutus* Sharp, 1887**

Material examined: BE18: 1 ex.; BE34: 1 ex.; BE77: 15 ex.; BE131: 1 ex.; BE159: 5 ex.; BE169: 1 ex.; BE181: 1 ex.; BE199: 1 ex.; BE211: 3 ex.; BE261: 1 ex.

***Bidessus unistriatus* (Goeze, 1777)**

Material examined: BE201: 9 ex.

***Hydroglyphus geminus* (Fabricius, 1792)**

Material examined: BE1: 1 ex.; BE7: 5 ex.; BE11: 1 ex.; BE18: 1 ex.; BE24: 1 ex.; BE25: 1 ex.; BE26: 1 ex.; BE27: 3 ex.; BE34: 29 ex.; BE103: 3 ex.; BE104: 2 ex.; BE105: 2 ex.; BE106: 1 ex.; BE107: 2 ex.; BE108: 1 ex.; BE115: 2 ex.; BE116: 2 ex.; BE118: 5 ex.; BE120: 8 ex.; BE135: 1 ex.; BE137: 1 ex.; BE142: 2 ex.; BE146: 1 ex.; BE148: 2 ex.; BE149: 1 ex.; BE152: 1 ex.; BE154: 2 ex.; BE162: 2 ex.; BE163: 1 ex.; BE167: 10 ex.; BE169: 2 ex.; BE175: 3 ex.; BE178: 1 ex.; BE181: 2 ex.; BE188: 11 ex.; BE193: 16 ex.; BE195: 3 ex.; BE196: 2 ex.; BE197: 1 ex.; BE198: 14 ex.; BE209: 2 ex.; BE221: 1 ex.; BE230: 1 ex.; BE231: 5 ex.; BE240: 30 ex.; BE241: 1 ex.; BE246: 6 ex.; BE247: 3 ex.; BE250: 1 ex.; BE253: 1 ex.; BE256: 9 ex.; BE259: 10 ex.; BE260: 1 ex.; BE32: 4 ex.; BE33: 4 ex.; BE36: 1 ex.; BE42: 1 ex.; BE43: 3 ex.; BE44: 1 ex.; BE50: 5 ex.; BE55: 1 ex.; BE60: 1 ex.; BE63: 4 ex.; BE69: 4 ex.; BE71: 2 ex.; BE73: 11 ex.; BE76: 1 ex.; BE80: 2 ex.; BE81: 4 ex.; BE82: 1 ex.; BE86: 2 ex.; BE87: 2 ex.; BE96: 4 ex.; BE98: 1 ex.

***Hydroglyphus signatellus* (Klug, 1834)**

Material examined: BE17: 4 ex.

***Deronectes parvicollis* (Schaum, 1864)**

Material examined: BE158: 44 ex.; BE238: 34 ex.

***Deronectes sahlbergi* Zimmermann, 1932**

Material examined: BE158: 1 ex.

***Graptodytes bilineatus* (Sturm, 1835)**

Material examined: BE206: 5 ex.

***Graptodytes sedilloti phrygius* Guignot, 1942**

Material examined: BE37: 1 ex.; BE58: 2 ex.; BE97: 2 ex.; BE130: 1 ex.; BE141: 1 ex.; BE197: 1 ex.; BE241: 1 ex.

***Graptodytes veterator behningi* Zaitzev, 1927**

Material examined: BE80: 1 ex.; BE162: 17 ex.; BE167: 10 ex.; BE240: 13 ex.

***Hydroporus angustatus* Sturm, 1835**

Material examined: BE37: 53 ex.; BE77: 5 ex.; BE201: 12 ex.; BE212: 5 ex.; BE228: 1 ex.; BE235: 5 ex.; BE245: 1 ex.; BE251: 3 ex.; BE253: 5 ex.; BE261: 1 ex.

Remarks: This species has been published as a new record for the fauna of Turkey (Darılmaz & Kiyak 2010).

***Hydroporus discretus* Fairmaire & Brisout, 1859**

Material examined: BE33: 3 ex.; BE52: 10 ex.; BE100: 2 ex.

***Hydroporus marginatus* (Duftschmid, 1805)**

Material examined: BE229: 5 ex.; BE230: 1 ex.

***Hydroporus palustris* (Linnaeus, 1761)**

Material examined: BE54: 22 ex.; BE90: 4 ex.; BE141: 4 ex.; BE164: 3 ex.; BE185: 3 ex.; BE240: 1 ex.

***Hydroporus planus* (Fabricius, 1782)**

Material examined: BE33: 5 ex.; BE37: 6 ex.; BE73: 54 ex.; BE96: 24 ex.; BE146: 2 ex.; BE149: 10 ex.; BE157: 11 ex.; BE159: 5 ex.; BE160: 26 ex.; BE192: 4 ex.; BE241: 4 ex.; BE245: 1 ex.; BE246: 38 ex.; BE247: 2 ex.; BE250: 1 ex.; BE251: 1 ex.

***Hydroporus pubescens* (Gyllenhal, 1808)**

Material examined: BE256: 8 ex.; BE230: 1 ex.

***Hydroporus thracicus* Guéorguiev, 1966**

Material examined: BE70: 3 ex.

***Hydroporus transgrediens* Gschwendtner, 1923**

Material examined: BE99: 34 ex.

***Nebrioporus (Nebrioporus) airumlus* (Kolenati, 1845)**

Material examined: BE38: 21 ex.

***Nebrioporus (Nebrioporus) stearinus suavis* (Sharp, 1882)**

Material examined: BE11: 3 ex.; BE16: 3 ex.; BE74: 3 ex.; BE168: 2 ex.; BE182: 15 ex.; BE183: 4 ex.; BE202: 19 ex.; BE235: 3 ex.

***Porhydrus lineatus* (Fabricius, 1775)**

Material examined: BE77: 233 ex.; BE79: 63 ex.; BE153: 13 ex.; BE186: 23 ex.; BE199: 13 ex.; BE201: 103 ex.

***Scarodytes halensis* (Fabricius, 1787)**

Material examined: BE1: 1 ex.; BE5: 3 ex.; BE11: 3 ex.; BE12: 1 ex.; BE33: 1 ex.; BE40: 3 ex.; BE55: 2 ex.; BE58: 4 ex.; BE59: 13 ex.; BE60: 13 ex.; BE64: 2 ex.; BE83: 7 ex.; BE89: 11 ex.; BE90: 15 ex.; BE106: 6 ex.; BE107: 5 ex.; BE109: 23 ex.; BE120: 9 ex.; BE121: 10 ex.; BE126: 1 ex.; BE158: 1 ex.; BE163: 1 ex.; BE165: 2 ex.; BE171: 4 ex.; BE174: 8 ex.; BE175: 10 ex.; BE176: 1 ex.; BE182: 12 ex.; BE183: 24 ex.; BE186: 1 ex.; BE188: 4 ex.; BE189: 8 ex.; BE195: 2 ex.; BE196: 4 ex.; BE229: 1 ex.; BE235: 13 ex.; BE239: 4 ex.; BE248: 2 ex.; BE259: 2 ex.

***Hydrovatus cuspidatus* (Kunze, 1818)**

Material examined: BE18: 8 ex.; BE36: 2 ex.; BE70: 1 ex.; BE76: 2 ex.; BE77: 10 ex.; BE78: 3 ex.; BE79: 1 ex.; BE88: 2 ex.; BE108: 1 ex.; BE131: 1 ex.; BE138: 6 ex.; BE139: 9 ex.; BE162: 2 ex.; BE167: 3 ex.; BE186: 7 ex.; BE192: 2 ex.; BE208: 6 ex.; BE212: 7 ex.; BE220: 4 ex.; BE250: 1 ex.; BE261: 1 ex.

***Herophydrus musicus* (Klug, 1834)**

Material examined: BE116: 1 ex.; BE178: 1 ex.

Remarks: This species has been published as a exact locality for the fauna of Turkey (Darılmaz and Kiyak 2010).

***Hygrotus (Coelambus) confluens* (Fabricius, 1787)**

Material examined: BE112: 1 ex.; BE181: 26 ex.; BE246: 1 ex.

***Hygrotus (Coelambus) impressopunctatus* (Schaller, 1783)**

Material examined: BE77: 3 ex.; BE97: 1 ex.; BE159: 4 ex.; BE240: 8 ex.

***Hygrotus (Coelambus) lernaeus* (Schaum, 1857)**

Material examined: BE116: 1 ex.; BE201: 9 ex.; BE208: 2 ex.; BE220: 1 ex.; BE221: 1 ex.; BE224: 1 ex.; BE232: 3 ex.; BE235: 1 ex.; BE237: 2 ex.; BE240: 69 ex.; BE251: 12 ex.; BE254: 4 ex.; BE261: 2 ex.

Hygrotus (Coelambus) parallelogrammus (Ahrens, 1812)

Material examined: BE87: 1 ex.; BE162: 2 ex.; BE201: 2 ex.; BE240: 1 ex.

Hygrotus (Coelambus) saginatus (Schaum, 1857)

Material examined: BE37: 1 ex.; BE151: 5 ex.; BE201: 1 ex.; BE240: 19 ex.; BE241: 1 ex.; BE261: 3 ex.

Hygrotus (Hygrotus) inaequalis (Fabricius, 1777)

Material examined: BE34: 1 ex.; BE37: 24 ex.; BE54: 3 ex.; BE70: 14 ex.; BE71: 5 ex.; BE77: 39 ex.; BE79: 26 ex.; BE80: 7 ex.; BE98: 4 ex.; BE108: 1 ex.; BE117: 3 ex.; BE131: 5 ex.; BE138: 16 ex.; BE153: 6 ex.; BE159: 6 ex.; BE164: 17 ex.; BE169: 17 ex.; BE170: 5 ex.; BE178: 1 ex.; BE186: 3 ex.; BE199: 10 ex.; BE201: 13 ex.; BE212: 36 ex.; BE214: 1 ex.; BE220: 27 ex.; BE228: 9 ex.; BE232: 10 ex.; BE235: 48 ex.; BE241: 16 ex.; BE245: 17 ex.; BE250: 9 ex.; BE251: 4 ex.; BE253: 6 ex.; BE261: 3 ex.

Hyphydrus ovatus (Linnaeus, 1761)

Material examined: BE98: 2 ex.; BE159: 1 ex.; BE181: 3 ex.; BE241: 1 ex.; BE247: 37 ex.

Laccophilus hyalinus (DeGeer, 1774)

Material examined: BE3: 5 ex.; BE5: 1 ex.; BE6: 13 ex.; BE23: 20 ex.; BE26: 6 ex.; BE30: 2 ex.; BE40: 11 ex.; BE50: 9 ex.; BE54: 2 ex.; BE55: 5 ex.; BE67: 2 ex.; BE74: 1 ex.; BE83: 2 ex.; BE86: 1 ex.; BE88: 1 ex.; BE90: 1 ex.; BE117: 4 ex.; BE123: 7 ex.; BE127: 22 ex.; BE133: 6 ex.; BE136: 6 ex.; BE142: 1 ex.; BE180: 3 ex.; BE181: 8 ex.; BE182: 1 ex.; BE183: 1 ex.; BE191: 1 ex.; BE192: 2 ex.; BE194: 2 ex.; BE195: 6 ex.; BE196: 3 ex.; BE201: 4 ex.; BE208: 1 ex.; BE259: 2 ex.

Laccophilus minutus (Linnaeus, 1758)

Material examined: BE1: 1 ex.; BE2: 6 ex.; BE8: 3 ex.; BE18: 1 ex.; BE33: 1 ex.; BE34: 2 ex.; BE41: 1 ex.; BE58: 1 ex.; BE59: 1 ex.; BE60: 3 ex.; BE76: 2 ex.; BE77: 13 ex.; BE78: 4 ex.; BE79: 15 ex.; BE80: 5 ex.; BE82: 2 ex.; BE94: 1 ex.; BE98: 2 ex.; BE104: 1 ex.; BE106: 1 ex.; BE107: 3 ex.; BE108: 1 ex.; BE116: 1 ex.; BE120: 2 ex.; BE131: 4 ex.; BE135: 3 ex.; BE137: 1 ex.; BE141: 2 ex.; BE162: 1 ex.; BE163: 2 ex.; BE164: 3 ex.; BE165: 1 ex.; BE175: 8 ex.; BE180: 2 ex.; BE183: 1 ex.; BE188: 3 ex.; BE193: 6 ex.; BE197: 7 ex.; BE198: 2 ex.; BE208: 1 ex.; BE214: 15 ex.; BE220: 2 ex.; BE226: 1 ex.; BE228: 3 ex.; BE230: 4 ex.; BE236: 1 ex.; BE237: 4 ex.; BE239: 1 ex.; BE240: 1 ex.; BE241: 5 ex.; BE245: 4 ex.; BE246: 1 ex.; BE247: 16 ex.; BE250: 4 ex.; BE251: 3 ex.; BE255: 31 ex.; BE258: 1 ex.

Laccophilus poecilus Klug, 1834

Material examined: BE36: 8 ex.; BE50: 1 ex.; BE76: 1 ex.; BE77: 2 ex.; BE78: 2 ex.; BE79: 1 ex.; BE80: 1 ex.; BE97: 2 ex.; BE116: 1 ex.; BE131: 3 ex.; BE135: 4 ex.; BE138: 5 ex.; BE139: 3 ex.; BE153: 5 ex.; BE155: 8 ex.; BE159: 2 ex.; BE169: 9 ex.; BE186: 4 ex.; BE193: 3 ex.; BE199: 2 ex.; BE201: 2 ex.; BE209: 1 ex.; BE211: 1 ex.; BE212: 10 ex.; BE214: 4 ex.; BE219: 4 ex.; BE220: 2 ex.; BE250: 1 ex.

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Table 1. List of localities.

BE1: AFYON: Emirdağ (Eskişehir Yolu 5.km Köprünün altı), 39°03'610"K 31°09'854"D, 933 m, 23.04.2007

BE2: AFYON: İsehisar (Seydiler Belediyesi), Yol kenarı Gölet), 38°53'846"K 30°50'142"D, 1201 m, 23.04.2007

- BE3: KÜTAHYA: Altıntaş (Oluklu dere- köprünün altı), 39°04'860"K 30°07'557"D, 1018 m, 24.04.2007
 BE4: KÜTAHYA: Altıntaş-Dumlupınar arası (Genişler köyü çıkışı-Oluklu deresi), 38°58'749"K 30°06'800"D, 1064 m, 24.04.2007
 BE5: AFYON: Hocalar (Devlethan köyü-Gözü deresi), 38°31'764"K 29°58'608"D, 1011 m, 24.04.2007
 BE6: DENİZLİ: Çivril (Akdağ-Küf çayı), 38°21'633"K 29°51'107"D, 896 m, 25.04.2007
 BE7: DENİZLİ: Çivril (Işık gölü, 1. İstasyon), 38°16'077"K 29°55'498"D, 827 m, 25.04.2007
 BE8: DENİZLİ: Buldan (Süleymanlı gölü), 38°03'035"K 28°46'291"D, 1157 m, 26.04.2007
 BE9: DENİZLİ: Çal (Karapınar Köyü-Karapınar göleti), 37°46'104"K 29°07'715"D, 350 m, 26.04.2007
 BE10: DENİZLİ: Acıpayam (Akalan kasabası Barajdan gelen dere), 37°22'793"K 29°17'521"D, 1100 m, 27.04.2007
 BE11: DENİZLİ: Acıpayam (Akalan kasabası Barajdan giderken yol kenarı su birikintisi), 37°21'878"K 29°20'292"D, 985 m, 27.04.2007
 BE12: DENİZLİ: Acıpayam (Çakırköyü -Dalaman çayına dökülen dere), 37°18'298"K 29°20'730"D, 821 m, 27.04.2007
 BE13: DENİZLİ: Pamukkale, 37°55'150"K 29°07'262"D, 280 m, 28.04.2007
 BE14: DENİZLİ: Karahayıt (Kırmızı su), 37°58'048"K 29°06'108"D, 335 m, 28.04.2007
 BE15: DENİZLİ: Denizli (Akköy-Sarayköy arası-Aksu Çayı), 37°56'381"K 28°59'523"D, 146 m, 28.04.2007
 BE16: DENİZLİ: Babadağ (Gündoğdu Mh. Babadağ çayı), 37°47'943"K 28°51'363"D, 749 m, 28.04.2007
 BE17: DENİZLİ: Çardak (Gemiş köyü çıkışı -Çeşme, su birikintisi), 37°46'367"K 29°50'622"D, 847 m, 29.04.2007
 BE18: DENİZLİ: Çardak (Acıgöl kenarı), 37°47'960"K 29°53'625"D, 848 m, 29.04.2007
 BE19: AFYON: Emirdağ (Çatallı Köyüne 2 km kala), 38°57'260"K 31°07'676"D, 1074 m, 19.05.2007
 BE20: AFYON: Emirdağ (Çatallı Köyü Çıkışı-Uçarken yakalandı), 38°55'662"K 31°08'748"D, 1235 m, 19.05.2007
 BE21: AFYON: Emirdağ (Çatallı Köyü-Çeşme), 38°56'496"K 31°08'075"D, 1116 m, 19.05.2007
 BE22: AFYON: Afyon- Kütahya yolu 2.km. (Akar Çay), 38°50'487"K 30°25'925"D, 1031 m, 20.05.2007
 BE23: KÜTAHYA: Altıntaş-Dumlupınar arası (Genişler köyü çıkışı-Oluklu deresi), 38°58'749"K 30°06'800"D, 1064 m, 20.05.2007
 BE24: KÜTAHYA: Tavşanlı-Domaniç arası (Karasu deresi), 39°34'921"K 29°27'852"D, 817 m, 21.05.2007
 BE25: KÜTAHYA: Tavşanlı-Domaniç arası (Karaköy-Kocasu deresi), 39°43'665"K 29°31'457"D, 708 m, 21.05.2007
 BE26: KÜTAHYA: Tavşanlı (Güzelyurt göleti), 39°29'007"K 29°34'480"D, 850 m, 21.05.2007
 BE27: KÜTAHYA: Simav (Gölcük Yayla gölü), 39°09'975"K 29°05'108"D, 1309 m, 22.05.2007
 BE28: KÜTAHYA: Simav (Demirci Köy Su birikintisi), 39°06'094"K 28°55'457"D, 825 m, 22.05.2007
 BE29: KÜTAHYA: Şaphane (Karamanca Köyü çıkışı Yol kenarındaki dere), 39°00'905"K 29°09'631"D, 899 m, 22.05.2007
 BE30: UŞAK: Ulubey (Giney yolu-Hamam Çayı), 38°17'910"K 29°08'479"D, 528 m, 23.05.2007
 BE31: UŞAK: Eşme (İsalar Göleti), 38°28'316"K 29°01'503"D, 800 m, 23.05.2007
 BE32: AFYON: Hocalar-Banaz 10. km. (Sulama kanalının oluşturduğu su birikintisi), 38°39'043"K 29°48'955"D, 997 m, 23.05.2007
 BE33: AFYON: Hocalar (Devlethan Köyü Belası Yaylası Ayan Çeşmesi), 38°32'444"K 29°54'556"D, 1200 m, 24.05.2007
 BE34: DENİZLİ: Çivril (Işık gölü, 1. İstasyon), 38°16'077"K 29°55'498"D, 827 m, 24.05.2007
 BE35: DENİZLİ: Honaz Dağı Milli Parkı, 37°39'660"K 29°14'779"D, 1215 m, 25.05.2007
 BE36: DENİZLİ: Honaz (Yukarı dağdere köy -Saklı Göl), 37°46'621"K 29°21'901"D, 959 m, 25.05.2007
 BE37: DENİZLİ: Bozkurt (Çambaşı Köyü-Karagöl), 37°44'084"K 29°29'530"D, 1266 m, 26.05.2007
 BE38: DENİZLİ: Bozkurt (Çambaşı Köyü-Emir Çayı), 37°43'084"K 29°28'530"D, 1250 m, 26.05.2007
 BE39: AFYON: Bayat (Çalboğazi deresi), 38°59'267"K 30°56'650"D, 1045 m, 18.06.2007
 BE40: AFYON: Bayat (Bayat Göleti-Çalboğazi deresi), 38°58'194"K 30°53'394"D, 1138 m, 18.06.2007
 BE41: AFYON: Bayat (Bayat göletinin yolu üzerinde yağmur suyu birikintisi), 38°58'581"K 30°53'871"D, 1162 m, 18.06.2007
 BE42: AFYON: Bayat (Bayat göleti), 38°58'536"K 30°53'970"D, 1145 m, 18.06.2007
 BE43: AFYON: İsehisar (Avşar deresi), 38°47'931"K 30°48'844"D, 1053 m, 18.06.2007
 BE44: AFYON: İsehisar (İsehisar Barajı), 38°47'393"K 30°48'221"D, 1044 m, 19.06.2007
 BE45: AFYON: İhsaniye (Uçarken Yakalandı), 39°03'605"K 30°24'056"D, 1110 m, 19.06.2007
 BE46: AFYON: İhsaniye (Üçlerkayası Göleti), 39°04'785"K 30°25'553"D, 1136 m, 19.06.2007
 BE47: AFYON: İhsaniye (Döğer Köyü Emre Göleti), 39°06'607"K 30°26'403"D, 1154 m, 19.06.2007
 BE48: KÜTAHYA: Söğüt (Söğüt Barajı), 39°25'264"K 30°11'380"D, 1134 m, 19.06.2007
 BE49: KÜTAHYA: Söğüt (Söğüt çayı), 39°26'896"K 30°10'212"D, 1069 m, 19.06.2007
 BE50: KÜTAHYA: Tavşanlı (Kuruçay Köyü-Kuruçay göleti), 39°28'660"K 29°30'358"D, 902 m, 20.06.2007
 BE51: KÜTAHYA: Domaniç (Domaniç-İnegöl Yolu 5. km. Çakıl deresi), 39°50'709"K 29°38'346"D, 1126 m, 20.06.2007
 BE52: KÜTAHYA: Domaniç (Domaniç-Bursa Yolu, Çeşme), 39°50'709"K 29°38'346"D, 1126 m, 20.06.2007
 BE53: KÜTAHYA: Domaniç (Domaniç-Bursa Yolu 8.km Palazoğlu Balık tesisleri göleti), 39°51'823"K 29°38'393"D, 1333 m, 20.06.2007
 BE54: KÜTAHYA: Çavdarhisar (Çavdarhisar barajı), 39°10'728"K 29°35'377"D, 1023 m, 20.06.2007
 BE55: KÜTAHYA: Gediz (Gümeleköy Barajı), 38°55'385"K 29°28'411"D, 796 m, 21.06.2007
 BE56: KÜTAHYA: Gediz (Murat Dağı, Çeşme), 38°57'319"K 29°37'248"D, 1470 m, 21.06.2007
 BE57: KÜTAHYA: Gediz (Muratdağı 15.km-Muratdağı deresi), 38°58'353"K 29°34'025"D, 884 m, 21.06.2007
 BE58: KÜTAHYA: Merkez (Kuşu Köyü-Kuşu göleti), 38°59'796"K 29°00'101"D, 1008 m, 22.06.2007
 BE59: KÜTAHYA: Şaphane (Şaphane girişindeki dere), 39°00'880"K 29°09'997"D, 876 m, 22.06.2007
 BE60: UŞAK: Eşme (Bozlar deresi), 38°35'415"K 29°01'627"D, 600 m, 22.06.2007
 BE61: UŞAK: Eşme (Taktmak Köyü-Taktmak Göleti), 38°26'486"K 28°57'047"D, 831 m, 22.06.2007
 BE62: UŞAK: Eşme (Yeleşen Köyü-Yeleşen Göleti), 38°18'450"K 28°55'551"D, 817 m, 22.06.2007
 BE63: UŞAK: Eşme (Yeşilkavak Köyü-Yeşilkavak Göleti), 38°18'162"K 28°57'947"D, 753 m, 22.06.2007
 BE64: UŞAK: Banaz (Ahat Köyü-Çeşme), 38°39'331"K 29°46'825"D, 958 m, 23.06.2007
 BE65: UŞAK: Banaz (Yeşilyurt Köyü-Kaynarca mevkii), 38°48'104"K 29°40'475"D, 1076 m, 23.06.2007
 BE66: UŞAK: Banaz (Yeşilyurt Köyü-Kaynarca dere), 38°48'385"K 29°40'703"D, 1024 m, 23.06.2007
 BE67: UŞAK: Banaz (Küçükler Barajı), 38°52'588"K 29°36'597"D, 1265 m, 23.06.2007
 BE68: AFYON: Hocalar-Banaz 10. km. (Sulama kanalının oluşturduğu su birikintisi), 38°39'043"K 29°48'955"D, 997 m, 23.06.2007
 BE69: AFYON: Hocalar (Devlethan Köyü-İmamkızı mevkii çeşme), 38°33'444"K 29°56'556"D, 1138 m, 23.06.2007
 BE70: DENİZLİ: Çardak (Beylerli Kasabası-Değirmendere), 37°41'294"K 29°37'290"D, 921 m, 24.06.2007
 BE71: DENİZLİ: Çardak (Söğüt Köyü-Söğüt göleti ve çeşmesi), 37°39'479"K 29°33'505"D, 1349 m, 24.06.2007
 BE72: DENİZLİ: Beyağaç (Kartal Gölü yolu 7.km çeşme), 37°11'593"K 28°51'962"D, 1070 m, 25.06.2007
 BE73: DENİZLİ: Beyağaç (Kartal Gölü), 37°05'761"K 28°50'975"D, 1903 m, 25.06.2007
 BE74: DENİZLİ: Beyağaç (Kartal Gölü yolu19.km dere), 37°07'701"K 28°50'313"D, 1414 m, 25.06.2007

- BE75: DENİZLİ: Honaz Dağı Milli Parkı, 37°39'660"K 29°14'779"D, 1215 m, 26.06.2007
 BE76: AFYON: Çay (Çayıryazı Köyü Göleti), 38°22'468"K 30°44'550"D, 1112 m, 27.06.2007
 BE77: AFYON: Çay (Eber Gölü), 38°36'875"K 31°09'611"D, 973 m, 27.06.2007
 BE78: AFYON: Emirdağ (Pınarbaşı Göleti), 39°02'877"K 31°19'605"D, 899 m, 09.07.2007
 BE79: AFYON: Çay (Eber Gölü), 38°36'875"K 31°09'611"D, 973 m, 09.07.2007
 BE80: AFYON: Çay (Karamık Sazlığı), 38°25'271"K 30°53'090"D, 1014 m, 10.07.2007
 BE81: AFYON: Çay (Yağdıoğlu Köyü girişi Yol kenarı su birikintisi), 38°22'574"K 30°46'226"D, 1013 m, 10.07.2007
 BE82: KÜTAHYA: Porsuk Barajı, 39°34'309"K 30°07'072"D, 888 m, 10.07.2007
 BE83: KÜTAHYA: Frig vadisi (Sabuncupınar deresi), 39°33'601"K 30°12'806"D, 960 m, 11.07.2007
 BE84: KÜTAHYA: Çavdarhisar (Çavdarhisar yolu 2.km-Porsuk Çayı), 39°21'750"K 30°02'934"D, 958 m, 11.07.2007
 BE85: KÜTAHYA: Merkez (Pullar Köyü-Pullar Göleti), 39°20'643"K 29°49'711"D, 1213 m, 11.07.2007
 BE86: KÜTAHYA: Çavdarhisar (Bedir Çayı), 39°12'052"K 29°36'718"D, 1020 m, 11.07.2007
 BE87: KÜTAHYA: Simav (Gölcük Yayla gölü), 39°09'975"K 29°05'108"D, 1309 m, 12.07.2007
 BE88: KÜTAHYA: Pazarlar (Pazarlar göleti), 38°59'782"K 29°05'175"D, 949 m, 12.07.2007
 BE89: KÜTAHYA: Pazarlar (Yakuplar Köyü-Yakuplar Göleti sulama deresi), 38°55'887"K 29°08'545"D, 918 m, 12.07.2007
 BE90: UŞAK: Merkez (Gögem Göleti), 38°43'200"K 29°33'351"D, 958 m, 13.07.2007
 BE91: UŞAK: Ulubey (Kazançı Deresi), 38°22'750"K 29°18'315"D, 543 m, 13.07.2007
 BE92: UŞAK: Ulubey (Banaz Çayı), 38°21'967"K 29°19'688"D, 543 m, 13.07.2007
 BE93: DENİZLİ: Çivril (Gülpinar Kaynak Çıkışı), 38°25'265"K 29°43'029"D, 973 m, 13.07.2007
 BE94: DENİZLİ: Buldan (Süleymanlı gölü), 38°03'035"K 28°46'291"D, 1157 m, 13.07.2007
 BE95: DENİZLİ: Çal (Belevi Köyü-çeşme), 37°54'661"K 29°33'659"D, 954 m, 14.07.2007
 BE96: DENİZLİ: Beyağaç (Kartal Gölü), 37°05'761"K 28°50'975"D, 1903 m, 15.07.2007
 BE97: AFYON: Emirdağ (Pınarbaşı Göleti), 39°02'877"K 31°19'605"D, 899 m, 10.08.2007
 BE98: AFYON: Çay (Çayıryazı Köyü Göleti), 38°22'468"K 30°44'550"D, 1112 m, 10.08.2007
 BE99: DENİZLİ: Tavas (Yorga Köyü-Gökçeşirar Mevkii-Kaynak Gözeleri), 37°19'951"K 29°07'478"D, 1164 m, 11.08.2007
 BE100: DENİZLİ: Serinhisar (Yatağan-Kefe Yaylası Yolu-Yol Kenarı Çeşme), 37°36'669"K 29°23'078"D, 1301 m, 12.08.2007
 BE101: DENİZLİ: Serinhisar (Kocapınar-Karaçay Arası, Karaçay), 37°40'187"K 29°24'045"D, 1100 m, 12.08.2007
 BE102: DENİZLİ: Babadağ (Gündoğdu Mh. Babadağ çayı), 37°47'943"K 28°51'363"D, 749 m, 13.08.2007
 BE103: DENİZLİ: Babadağ (Kelleci Köyü Sulama Göleti), 37°49'601"K 28°54'829"D, 687 m, 13.08.2007
 BE104: DENİZLİ: Çivril (Çatak-Karaköy Arası, Büyük Menderes), 38°09'413"K 29°38'405"D, 809 m, 14.08.2007
 BE105: DENİZLİ: Çivril (Işıkli Gölü, 1. İstasyon), 38°16'077"K 29°55'498"D, 827 m, 14.08.2007
 BE106: AFYON: Sandıklı (Karacaören Köyü-Karacaören göleti deresi), 38°29'340"K 30°17'954"D, 1212 m, 15.08.2007
 BE107: AFYON: Sincanlı (Tınaztepe Göleti), 38°43'123"K 30°23'023"D, 1135 m, 15.08.2007
 BE108: AFYON: Sinanpaşa (Kırka Göleti Çıkışı), 38°42'444"K 30°13'875"D, 1204 m, 15.08.2007
 BE109: UŞAK: Banaz (Kuşdemir Köyü-Kuşdemir Göleti), 38°44'778"K 29°43'050"D, 991 m, 15.08.2007
 BE110: UŞAK: Eşme (Ahmetler Köyü-Ahmetler Göleti), 38°24'645"K 29°05'618"D, 804 m, 16.08.2007
 BE111: UŞAK: Eşme (Kolonkaya Köyü-Kolonkaya Göleti), 38°28'067"K 29°01'105"D, 782 m, 16.08.2007
 BE112: UŞAK: Eşme (Güneyköy-Güneyköy Göleti), 38°23'375"K 28°51'720"D, 862 m, 16.08.2007
 BE113: UŞAK: Eşme (Güneyköy Yolu 2.km), 38°23'501"K 28°56'960"D, 835 m, 16.08.2007
 BE114: KÜTAHYA: Gediz (Gölcük Köyü-Gediz Nehri), 38°53'877"K 29°17'767"D, 647 m, 17.08.2007
 BE115: KÜTAHYA: Gediz (İlca Kaphıcaları), 38°56'436"K 29°15'418"D, 697 m, 17.08.2007
 BE116: KÜTAHYA: Simav (Örenli Köyü-Örenli Göleti), 39°11'741"K 28°53'382"D, 819 m, 17.08.2007
 BE117: KÜTAHYA: Simav (Gölcük Yayla gölü), 39°09'975"K 29°05'108"D, 1309 m, 17.08.2007
 BE118: KÜTAHYA: Hisarcık (Emet Çayı), 39°16'510"K 29°13'647"D, 736 m, 18.08.2007
 BE119: KÜTAHYA: Emet (Yenice Köyü girişi-çeşme), 39°17'941"K 29°10'887"D, 915 m, 18.08.2007
 BE120: KÜTAHYA: Tavşanlı (Köpricek köyü-Köpricek göleti), 39°34'809"K 29°20'961"D, 1026 m, 18.08.2007
 BE121: KÜTAHYA: Tavşanlı (Harmançık yolu 5.km-Kocası Deresi), 39°35'164"K 29°24'425"D, 873 m, 18.08.2007
 BE122: KÜTAHYA: Domanıç (Domanıç-İnegöl Yolu 5. km, Çakıl deresi), 39°30'709"K 29°38'346"D, 1126 m, 18.08.2007
 BE123: KÜTAHYA: Frig vadisi (Sabuncupınar deresi), 39°33'601"K 30°12'806"D, 960 m, 19.08.2007
 BE124: AFYON: Emirdağ (Pınarbaşı Göleti çıkışı), 39°02'877"K 31°19'605"D, 899 m, 19.04.2008
 BE125: AFYON: Emirdağ (Başkonak Köyü Çıkışı-Uçarken Yakalandı), 38°55'207"K 31°06'350"D, 1207 m, 19.04.2008
 BE126: AFYON: Bolvadin (Özburun Kasabası-Kapaklı Sekmesi Yol Kenarı), 38°51'207"K 31°03'350"D, 1203 m, 19.04.2008
 BE127: AFYON: Çay (Eber Gölü), 38°36'875"K 31°09'611"D, 973 m, 19.04.2008
 BE128: AFYON: Sultandağ (Yakasenek Köyü Üstü), 38°32'156"K 31°10'778"D, 1282 m, 19.04.2008
 BE129: AFYON: Sultandağ (Dereçine-Kapı Deresi), 38°28'226"K 31°14'964"D, 1148 m, 20.04.2008
 BE130: AFYON: Sultandağ (Nadir Köyü Akşehir gölü kenarı Kiraz bahçesi su birikintisi), 38°25'885"K 31°22'563"D, 966 m, 20.04.2008
 BE131: AFYON: Çay (Karamık Sazlığı), 38°25'271"K 30°53'090"D, 1014 m, 20.04.2008
 BE132: KÜTAHYA: Altıntaş-Dumlupınar arası (Genişler köyü çıkışı-Oluklu deresi), 38°58'749"K 30°06'800"D, 1064 m, 20.04.2008
 BE133: KÜTAHYA: Altıntaş (Gediz yolu 17.km-Murat çayı), 38°58'574"K 29°34'457"D, 1073 m, 21.04.2008
 BE134: KÜTAHYA: Altıntaş (Gediz yolu 42. km), 38°59'920"K 29°42'246"D, 1189 m, 21.04.2008
 BE135: KÜTAHYA: Simav (Örenli Köyü-Örenli Göleti), 39°11'741"K 28°53'382"D, 819 m, 21.04.2008
 BE136: DENİZLİ: Çivril (Akdaz-Küf çayı), 38°21'633"K 29°51'107"D, 896 m, 22.04.2008
 BE137: DENİZLİ: Çivril (Işıkli Gölü, 1. İstasyon), 38°16'077"K 29°55'498"D, 827 m, 22.04.2008
 BE138: DENİZLİ: Çivril (Gökçöl Köyü-Işıkli Gölü 2. istasyon), 38°12'375"K 30°02'332"D, 1118 m, 22.04.2008
 BE139: AFYON: Başmakçı (Acıgöl), 37°50'127"K 29°57'454"D, 851 m, 22.04.2008
 BE140: DENİZLİ: Çardak (Beylerli Kasabası-Değirmendere), 37°41'294"K 29°37'290"D, 921 m, 22.04.2008
 BE141: AFYON: Bayat (Bayat göleti), 38°58'536"K 30°53'970"D, 1145 m, 03.05.2008
 BE142: AFYON: İhsenisar (İsceshan Barajı), 38°47'393"K 30°48'221"D, 1044 m, 03.05.2008
 BE143: AFYON: İhseniyi (Döğür Köyü Emre Göleti), 39°06'607"K 30°26'403"D, 1154 m, 04.05.2008
 BE144: KÜTAHYA: Söğüt (Frig vadisi mağaraları-yağmur suyu birikintisi), 39°26'445"K 30°10'569"D, 1082 m, 04.05.2008
 BE145: KÜTAHYA: Kozluca-Yumaklı arası (Türkmen dağı), 39°25'410"K 30°16'608"D, 1305 m, 04.05.2008
 BE146: KÜTAHYA: Bayram-Sabuncupınar Yolu (Doğuluşah Deresi), 39°30'932"K 30°09'867"D, 984 m, 04.05.2008
 BE147: KÜTAHYA: Domanıç (Domanıç-Bursa Yolu 8.km Palazoğlu Balık tesisleri göleti), 39°51'823"K 29°38'393"D, 1333 m, 05.05.2008

- BE148: KÜTAHYA: Tavşanlı (Güzelyurt göleti), 39°29'007"K 29°34'480"D, 850 m, 05.05.2008
 BE149: KÜTAHYA: Tavşanlı (Kayaboğazı Barajı), 39°25'151"K 29°36'727"D, 927 m, 05.05.2008
 BE150: KÜTAHYA: Çavdarhisar (Çetre göleti çıkışı dere), 39°15'890"K 29°28'407"D, 1165 m, 05.05.2008
 BE151: KÜTAHYA: Simav (Gölcük Yayla gölü), 39°09'975"K 29°05'108"D, 1309 m, 06.05.2008
 BE152: KÜTAHYA: Simav (Örenli Köyü-Örenli Göleti), 39°11'741"K 28°53'382"D, 819 m, 06.05.2008
 BE153: DENİZLİ: Çivril (Gökğöl Köyü-Işıkli Gölü 2. İstasyon), 38°12'375"K 30°02'332"D, 1118 m, 07.05.2008
 BE154: DENİZLİ: Kalkık (Kalkık Mağarası Su havuzu), 37°51'364"K 29°23'135"D, 517 m, 07.05.2008
 BE155: DENİZLİ: Honaz (Yukarı dağdere köy -Saklı Göl), 37°46'621"K 29°21'901"D, 959 m, 07.05.2008
 BE156: AFYON: Dinar (Karakuyu gölü), 38°04'587"K 30°16'505"D, 1020 m, 08.05.2008
 BE157: AFYON: Çay (Eber Gölü), 38°36'875"K 31°09'611"D, 973 m, 08.05.2008
 BE158: AFYON: Emirdağ (Kemer kaya Beldesi), 38°54'014"K 31°07'498"D, 1232 m, 10.06.2008
 BE159: AFYON: Çay (Eber Gölü), 38°36'875"K 31°09'611"D, 973 m, 10.06.2008
 BE160: AFYON: Sultandağ (Yakasenek Köyü Çeşmesi), 38°32'370"K 31°09'695"D, 1542 m, 11.06.2008
 BE161: AFYON: Sultandağ (Dereçine-Kapı Deresi), 38°28'226"K 31°14'964"D, 1148 m, 11.06.2008
 BE162: AFYON: Çay (Pazarağaç Kasabası-Devrendöğü çiftlik mevkii sulak alan yol kenarı), 38°36'867"K 30°51'268"D, 996 m, 11.06.2008
 BE163: AFYON: İhsaniye (Döğür Köyü Emre Göleti), 39°06'607"K 30°26'403"D, 1154 m, 11.06.2008
 BE164: AFYON: İhsaniye (Döğür Köyü Emre Göleti 2. İstasyon), 39°06'607"K 30°26'403"D, 1154 m, 11.06.2008
 BE165: KÜTAHYA: İnlı Köyü (Frig vadisi yolunda), 39°27'726"K 30°11'603"D, 1097 m, 12.06.2008
 BE166: KÜTAHYA: Domanç (Heyelanlı Bölge-Çakıl Deresi), 39°50'177"K 29°38'605"D, 966 m, 12.06.2008
 BE167: AFYON: Emirdağ (Pınarbaşı Göleti), 39°02'877"K 31°19'605"D, 899 m, 16.08.2008
 BE168: AFYON: Sultandağ (Dereçine-Kapı Deresi), 38°28'226"K 31°14'964"D, 1148 m, 16.08.2008
 BE169: AFYON: Çay (Karamak Sazlığı), 38°25'271"K 30°53'090"D, 1014 m, 17.08.2008
 BE170: AFYON: İhsaniye (Döğür Köyü Emre Göleti 2. İstasyon), 39°06'607"K 30°26'403"D, 1154 m, 17.08.2008
 BE171: KÜTAHYA: Türkmen Dağı (Söğüt Yaylası-dere), 39°23'713"K 30°19'218"D, 1373 m, 17.08.2008
 BE172: KÜTAHYA: Türkmen Dağı (Güllüdere-Gölcük), 39°26'572"K 30°22'090"D, 1639 m, 18.08.2008
 BE173: KÜTAHYA: Yumaklı-Bayat Köyü Arası 2.km (dere), 39°25'911"K 30°16'100"D, 1269 m, 18.08.2008
 BE174: KÜTAHYA: İnlı-Doğuluşah Yolu (Doğuluşah deresi), 39°29'534"K 30°12'506"D, 1051 m, 18.08.2008
 BE175: KÜTAHYA: Frig vadisi (Sabuncupınar deresi), 39°33'601"K 30°12'806"D, 960 m, 18.08.2008
 BE176: KÜTAHYA: Altıntaş (Oysu Köyü-dere), 38°58'218"K 29°53'815"D, 1113 m, 18.08.2008
 BE177: KÜTAHYA: Gediz (Çukuroren Köyü-dere), 38°59'030"K 29°41'225"D, 1180 m, 18.08.2008
 BE178: KÜTAHYA: Simav (Gölcük Yayla gölü), 39°09'975"K 29°05'108"D, 1309 m, 19.08.2008
 BE179: KÜTAHYA: Demirci (Söğütli Köyü-Güldürek), 39°08'010"K 28°36'122"D, 1195 m, 19.08.2008
 BE180: KÜTAHYA: Demirci (Türkmen Dağı-Sarıcaçır Yangın göleti), 39°07'322"K 28°35'288"D, 1376 m, 19.08.2008
 BE181: KÜTAHYA: Selendi (Havvağul Köyü-Sülükli Göl), 38°51'687"K 28°46'940"D, 630 m, 630 m, 19.08.2008
 BE182: AFYON: Sandıklı (Sorkun Akdağ Tabiat Alan Koruma Parkı 6.km Dere), 38°24'006"K 30°01'760"D, 1131 m, 20.08.2008
 BE183: AFYON: Sandıklı (Sorkun Yaylası), 38°21'146"K 30°01'398"D, 1464 m, 20.08.2008
 BE184: AFYON: Sandıklı (Akdağ Yangın Gözetleme kulesi yamı Çeşme), 38°20'508"K 29°59'607"D, 1800 m, 20.08.2008
 BE185: DENİZLİ: Akdağ (Cumalar Köyü İstifi Sığırkuymu mevkii Dere), 38°20'492"K 29°58'451"D, 1710 m, 20.08.2008
 BE186: DENİZLİ: Çivril (Gökğöl Köyü-Işıkli Gölü 2. İstasyon), 38°12'375"K 30°02'332"D, 1118 m, 20.08.2008
 BE187: AFYON: Dinar (Karakuyu gölü), 38°04'587"K 30°16'505"D, 1020 m, 20.08.2008
 BE188: AFYON: Bayat (Gömü Yolu 3.km Yol kenarı dere), 38°59'981"K 30°58'211"D, 1027 m, 15.09.2008
 BE189: KÜTAHYA: Türkmen Dağı (Söğüt Yaylası üzeri yol kenarı dere), 39°23'672"K 30°18'941"D, 1414 m, 16.09.2008
 BE190: KÜTAHYA: Yumaklı-Bayat Köyü Arası 2.km (dere), 39°25'911"K 30°16'100"D, 1269 m, 16.09.2008
 BE191: KÜTAHYA: Alayunt Köyü (Kocaköprü dere), 39°24'839"K 30°03'630"D, 930 m, 16.09.2008
 BE192: KÜTAHYA: Çavdarhisar (2.km Porsuk çayı), 39°21'463"K 30°02'552"D, 976 m, 16.09.2008
 BE193: KÜTAHYA: Simav (Örenli Köyü-Örenli Göleti), 39°11'741"K 28°53'382"D, 819 m, 16.09.2008
 BE194: UŞAK: Merkez (Göğem Göleti), 38°43'200"K 29°33'351"D, 958 m, 17.09.2008
 BE195: UŞAK: Altıntaş (Mesudiye göleti çıkışı), 38°43'017"K 29°30'240"D, 930 m, 17.09.2008
 BE196: UŞAK: Eşme (1.km yol kenarı dere), 38°38'549"K 29°03'084"D, 554 m, 17.09.2008
 BE197: UŞAK: Banaz (Ahat göleti), 38°38'684"K 29°46'653"D, 1025 m, 17.09.2008
 BE198: UŞAK: Banaz-Hocalar yolu (Ahat Köyü çıkışı sulama kanalı su birikintisi), 38°39'110"K 29°48'751"D, 1003 m, 17.09.2008
 BE199: DENİZLİ: Çivril (Gökğöl Köyü-Işıkli Gölü 2. İstasyon), 38°12'375"K 30°02'332"D, 1118 m, 18.09.2008
 BE200: DENİZLİ: Beyağaç (Eşen Göleti), 37°12'468"K 29°00'550"D, 1017 m, 18.09.2008
 BE201: AFYON: Çay (Çayır yazı Köyü Göleti), 38°22'468"K 30°44'550"D, 1112 m, 19.09.2008
 BE202: AFYON: Sultandağ (Dereçine-Kapı Deresi), 38°28'226"K 31°14'964"D, 1148 m, 19.09.2008
 BE203: KÜTAHYA: Merkez-Frig Vadisi (Muratboğazı Köyü-Çinili Çeşme), 39°20'668"K 30°12'679"D, 1100 m, 27.04.2009
 BE204: KÜTAHYA: Türkmen Dağı (Söğüt Yaylası-dere), 39°23'713"K 30°19'218"D, 1373 m, 27.04.2009
 BE205: KÜTAHYA: Türkmen Dağı (Güllüdere-Gölcük), 39°26'572"K 30°22'090"D, 1639 m, 27.04.2009
 BE206: KÜTAHYA: Merkez (Yumaklı-Organize Sanayi Yarı-Bataklık Alan), 39°23'255"K 30°06'607"D, 939 m, 28.04.2009
 BE207: KÜTAHYA: Kozluca-Yumaklı arası (Türkmen dağı), 39°25'410"K 30°16'608"D, 1305 m, 28.04.2009
 BE208: KÜTAHYA: Simav (Gölcük Yayla gölü), 39°09'975"K 29°05'108"D, 1309 m, 28.04.2009
 BE209: KÜTAHYA: Simav (Örenli Köyü-Örenli Göleti), 39°11'741"K 28°53'382"D, 819 m, 28.04.2009
 BE210: KÜTAHYA: Simav (Simav Gölü), 39°10'549"K 28°55'586"D, 789 m, 28.04.2009
 BE211: DENİZLİ: Çivril (Işıkli Gölü, 1. İstasyon), 38°16'077"K 29°55'498"D, 827 m, 29.04.2009
 BE212: DENİZLİ: Çivril (Gökğöl Köyü-Işıkli Gölü 2. İstasyon), 38°12'375"K 30°02'332"D, 1118 m, 29.04.2009
 BE213: DENİZLİ: Çivril (Gökğöl Köyü-Işıkli Gölü 3. İstasyon), 38°11'656"K 30°03'523"D, 830 m, 29.04.2009
 BE214: DENİZLİ: Buldan (Süleymanlı gölü), 38°03'035"K 28°46'291"D, 1157 m, 29.04.2009
 BE215: DENİZLİ: Beylerli (Çaltı Gölü-1. İstasyon), 37°43'458"K 29°41'070"D, 853 m, 30.04.2009
 BE216: DENİZLİ: Beylerli (Çaltı Gölü-2. İstasyon), 37°43'676"K 29°41'301"D, 851 m, 30.04.2009
 BE217: DENİZLİ: Çardak (Gemiş köyü çıkışı -Çeşme su birikintisi), 37°46'367"K 29°50'622"D, 847 m, 30.04.2009
 BE218: DENİZLİ: Çardak (Acıgöl-1. İstasyon), 37°47'759"K 29°53'378"D, 849 m, 30.04.2009
 BE219: DENİZLİ: Çardak (Acıgöl-2. İstasyon), 37°49'054"K 29°55'619"D, 826 m, 30.04.2009
 BE220: AFYON: Dinar (Karakuyu gölü), 38°04'587"K 30°16'505"D, 1020 m, 30.04.2009
 BE221: AFYON: Emirdağ (Pınarbaşı Göleti), 39°02'877"K 31°19'605"D, 899 m, 19.05.2009
 BE222: AFYON: Sultandağ (Yakasenek Köyü Çeşmesi), 38°32'370"K 31°09'695"D, 1542 m, 19.05.2009
 BE223: AFYON: Sultandağ (Gölköy-Akşehir Gölü), 38°29'200"K 31°20'746"D, 953 m, 19.05.2009

- BE224: AFYON: Çay (Eber Gölü-2. İstasyon), 38°36'828"K 31°08'467"D, 968 m, 19.05.2009
 BE225: AFYON: Çay (Eber Gölü-1. İstasyon), 38°36'875"K 31°09'611"D, 973 m, 19.05.2009
 BE226: AFYON: Çay (Karamık Sazlığı-1. İstasyon), 38°25'271"K 30°53'090"D, 1014 m, 20.05.2009
 BE227: AFYON: Çay (Karamık Sazlığı-2. İstasyon), 38°26'956"K 30°50'248"D, 1009 m, 20.05.2009
 BE228: AFYON: İhsaniye (Döğür Köyü Emre Göleti 2. istasyon), 39°06'607"K 30°26'403"D, 1154 m, 20.05.2009
 BE229: KÜTAHYA: Simav (Söğüt Köyü-Gökçeler Köyü Arası 4.km Yol kenarı dere), 39°06'322"K 29°03'129"D, 898 m, 21.05.2009
 BE230: KÜTAHYA: Simav (Gökçeler Köyü-Sulama Göleti), 39°06'124"K 29°02'179"D, 834 m, 21.05.2009
 BE231: KÜTAHYA: Simav (Örenli Köyü-Örenli Göleti), 39°11'741"K 28°53'382"D, 819 m, 21.05.2009
 BE232: DENİZLİ: Çivril (Gökçöl Köyü-Işıklı Gölü 2. istasyon), 38°12'375"K 30°02'332"D, 1118 m, 21.05.2009
 BE233: DENİZLİ: Çivril (Gökçöl Köyü-Işıklı Gölü 3. istasyon), 38°11'656"K 30°03'523"D, 830 m, 21.05.2009
 BE234: DENİZLİ: Honaz (Kızılyer Kasabası Yol Kenarı dere), 37°45'842"K 29°22'108"D, 804 m, 22.05.2009
 BE235: AFYON: Dinar (Karakuyu gölü-1. İstasyon), 38°04'587"K 30°16'505"D, 1020 m, 22.05.2009
 BE236: AFYON: Dinar (Gökçeler Köyü-Karakuyu gölü-2. İstasyon), 38°03'999"K 30°14'776"D, 1004 m, 22.05.2009
 BE237: AFYON: Emirdağ (Pınarbaşı Göleti), 39°02'877"K 31°19'605"D, 899 m, 17.06.2009
 BE238: AFYON: Emirdağ (Kemer kaya Kasabası, Pancarlı Deresi), 38°51'874"K 31°10'088"D, 1435 m, 17.06.2009
 BE239: AFYON: Emirdağ (Kemer kaya Kasabası-Yapraklı Mh. Altı Yol kenarı dere), 38°54'040"K 31°07'468"D, 1236 m, 17.06.2009
 BE240: AFYON: Çay (Pazarağaç Kasabası-Devrendöğü çiftlik mevkii sulak alan yol kenarı), 38°36'867"K 30°51'268"D, 996 m, 17.06.2009
 BE241: AFYON: Çay (Eber Gölü-1. İstasyon), 38°36'875"K 31°09'611"D, 973 m, 17.06.2009
 BE242: AFYON: Çay (Karamık Sazlığı-1. İstasyon), 38°25'271"K 30°53'090"D, 1014 m, 18.06.2009
 BE243: AFYON: Çay (Karamık Sazlığı-2. İstasyon), 38°26'956"K 30°50'248"D, 1009 m, 18.06.2009
 BE244: AFYON: İhsaniye (Döğür Köyü Emre Göleti), 39°06'607"K 30°26'403"D, 1154 m, 18.06.2009
 BE245: AFYON: İhsaniye (Döğür Köyü Emre Göleti 2. istasyon), 39°06'607"K 30°26'403"D, 1154 m, 18.06.2009
 BE246: KÜTAHYA: Türkmen Dağı (Söğüt Yaylası-dere), 39°23'713"K 30°19'218"D, 1373 m, 18.06.2009
 BE247: KÜTAHYA: Tavşanlı (Dereli Köyü Girişi-Yol kenarı gölet), 39°29'283"K 29°14'820"D, 603 m, 19.06.2009
 BE248: KÜTAHYA: Tavşanlı (Ormanlı Köyü-Emet Çayı), 39°29'234"K 29°11'633"D, 498 m, 19.06.2009
 BE249: UŞAK: Ulubey (Ulubey kanyonları içindeki dere), 38°24'306"K 29°18'487"D, 563 m, 20.06.2009
 BE250: DENİZLİ: Çivril (Gökçöl Köyü-Işıklı Gölü 2. istasyon), 38°12'375"K 30°02'332"D, 1118 m, 20.06.2009
 BE251: AFYON: Dinar (Karakuyu gölü-1. İstasyon), 38°04'587"K 30°16'505"D, 1020 m, 20.06.2009
 BE252: DENİZLİ: Çardak (Acıgöl-1. İstasyon), 37°47'759"K 29°53'378"D, 849 m, 20.06.2009
 BE253: DENİZLİ: Bozkurt (Çambaşı Köyü-Karagöl), 37°44'084"K 29°29'530"D, 1266 m, 21.06.2009
 BE254: DENİZLİ: Honaz (Yukarıdağdere köy -Saklı Göl), 37°46'621"K 29°21'901"D, 959 m, 21.06.2009
 BE255: DENİZLİ: Tavas (Kızılcaaböyük Kasabası-Çakıroluk Mevkii), 37°41'412"K 29°02'884"D, 1664 m, 21.06.2009
 BE256: DENİZLİ: Çameli (Kınıkyeri köyü 8.km yol kenarı çeşme), 37°13'640"K 29°26'770"D, 1303 m, 22.06.2009
 BE257: KÜTAHYA: Merkez (Organize Sanayi Yanı-Bataklık Alan), 39°23'255"K 30°06'607"D, 939 m, 17.07.2009
 BE258: KÜTAHYA: Türkmen Dağı Yolu (Ürünli Çiftliği Altı-Su arki), 39°20'737"K 30°11'633"D, 1044 m, 17.07.2009
 BE259: KÜTAHYA: Hisarcık (Dereli Köyü-Dere), 39°09'208"K 29°17'130"D, 835 m, 18.07.2009
 BE260: DENİZLİ: Çardak (Acıgöl-2. İstasyon), 37°49'054"K 29°55'619"D, 826 m, 19.07.2009
 BE261: AFYON: Dinar (Karakuyu gölü-1. İstasyon), 38°04'587"K 30°16'505"D, 1020 m, 20.07.2009

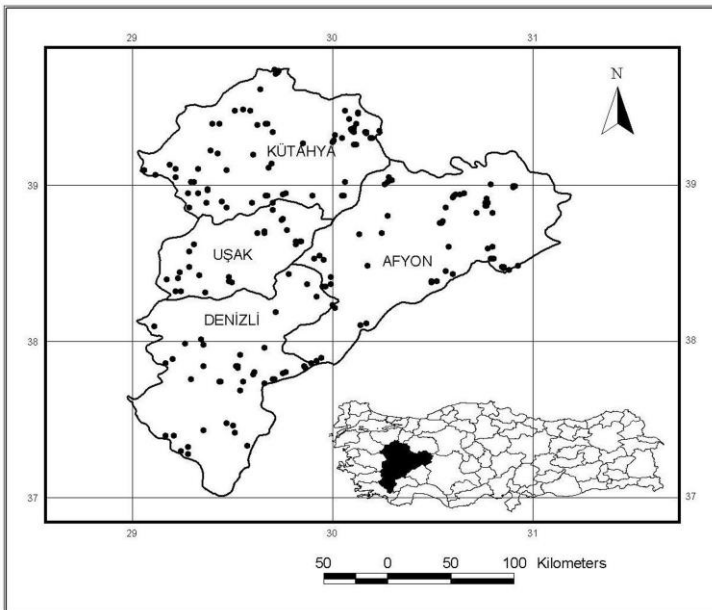


Figure 1. Map of study area showing sample localities (black dot).