

Anthophora of ENA (east of 100th meridian)

Revised September 23, 2009

Arduser

Males:

1. Apical margins of tergites with conspicuous whitish or pale yellow integumental bands, contrasting with dark-colored body of tergites.....**walshii** Cresson

Note: several superficially similar species with white or yellow integumental bands on the tergal margins occur in the southern/central Great Plains and may show up in western portions of ENA: these are montana Cresson, marginata Smith, and californica Cresson. A. marginata and californica males have the hind basitarsi short, broad and conspicuously toothed or angulate; conversely, the hind basitarsi are long, narrow, somewhat curved and simple in walshii and montana. A. walshii and montana males are very much alike but can be separated by genitalia characters: the apicolateral projection of the gonocoxite (at the base of the gonostylus) is lobate and rounded in walshii, but sharply angulate in montana. Also, the clypeus is usually basally black in walshii, wholly maculated in montana.

Tergites entirely dark, without white or yellow integumental bands on apical margins.....**2**

2. Scape unicolorous (dark); mandible tridentate.....**terminalis** Cresson

Scape marked with whitish or yellow maculae; mandible simple apically or with a single subapical tooth.....**3**

3. Hind basitarsi simple, without a tooth or sharp angle on margin near base.....**4**

Hind basitarsi toothed or angulate along margin near base.....**5**

4. Pygidial plate absent; midbasitarsal brush present; yellow spot present at base of mandible; introduced on east coast.....**plumipes** (Pallas)

Pygidial plate present; midbasitarsal brush absent; base of mandible dark, without yellow spot**ursina** Cresson

5. Pubescence of tergites black except for T1 which is often yellow or pale pubescent in part; labrum with apical brush of black hairs.....**abrupta** Say

Pubescence of T1 and T2 yellow or pale, T3 may be yellow also, tergal pubescence otherwise dark; labrum without an apical brush.....**bomboides** Kirby

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Females

1. Mandible tridentate apically; T1-T4 with weak pale apical fasciae, especially laterally, but may be worn away in part; scutum and scutellum usually with much black hair; scopal hairs on hind tibia pale.....**terminalis** Cresson

Mandible with single preapical tooth on dorsal margin near apex, or mandible simple; terga without pale fasciae (but may have pale integumental bands); hairs of scutum and scutellum pale, with few if any black or dark hairs; scopal hairs on hind tibia variable.....**2**

2. Apical margins of tergites with conspicuous whitish or pale yellow integumental bands, contrasting with dark-colored body of tergites; hairs on surface of clypeus mostly hamate (apically "bent"), but occasionally these hairs worn, and then appearing straight

.....**walshii** Cresson

Note: at least two superficially similar species, A. marginata and A. californica, occur in the southern and central Great Plains and may show up in western parts of ENA. Females of these two species are very similar to each other and hard to separate: both have simple (straight) hairs on the clypeus, while these hairs are hamate (apically bent) in walshii, unless worn.

Tergites entirely dark, without white or yellow integumental bands on apical margins.....**3**

3. Malar space present (though short), about as long as one ocellar diameter; F1 very long, about as long as combined length of F2-F6; T1 pubescence yellowish-brown, T2-T5 black; pubescence of head mostly black; galea surface laterally with hamate hairs, but hairs often worn away in part.....**ursina** Cresson

Malar space absent (i.e., base of mandible and end of eye contiguous or very nearly so); other characters variable.....**4**

4. Scopal hairs of hind tibia black.....**5**

Scopal hairs of hind tibia pale, brownish or orangeish, never black; tergal pubescence largely pale.....**6**

5. T1 and T2 pubescence all black, or occasionally T1 with some yellow hairs; pleural pubescence all yellow.....**abrupta** Say

T1 and T2 pubescence mostly yellowish; upper half of pleura yellow pubescent, lower half black
.....**bomboides** Kirby

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6. Scopal hairs on hind tibia colorless, pale; labrum rugoso-punctate throughout, without lateral tubercles or medial ridge; Great Plains/western US species.....**montana** Cresson

Scopal hairs on hind tibia brownish to orangeish; labrum laterally with a pair of tubercles and a medial, raised ridge running from base of labrum to apex; introduced on east coast
.....**plumipes** (Pallas)