

Agapostemon known from eastern North America (east of 100th meridian)

M. Arduser

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Males:

1. ST 4 entirely flat, without a low, transverse swelling along the apical or preapical margin; ST 5 and 6 usually all dark brown to black, without any yellow maculations; hind femur usually lacking dark stripe on posterior surface.....***virescens*** (*Fabricius*)
[Note: *A. coloradinus* is a Great Plains species not yet recorded from MO: it is similar to *virescens*, but the dark stripe on the posterior surface of the hind femur is present in *coloradinus*, and the inner gonostylar flap of *coloradinus* lacks a pronounced, medially-directed process basally, which is present in *virescens*.]

ST4 with a low, transverse swelling along the apical or preapical margin (best seen in oblique lateral view); ST 5 and 6 usually yellow in part; hind femur variable....2

2(1). Gonostylus broad, flap-like, lacking an apical stylus directed medially.....3

Gonostylus with an apical stylus directed more-or-less medially.....4

3(2). Hind femur somewhat swollen, larger than mid femur; hind femur with a small distinct tooth or spur on ventral surface subapically; T1 usually dark basally
.....***sericeus*** (*Forster*)

Hind femur little if any larger than mid femur; ventral margin of hind femur entirely simple, without a small tooth or spur subapically; T1 usually light-colored basally (yellow to amber); Great Plains species in part, not yet known from ENA
.....***melliventris***

4(2). Hind basitarsus with inner basal margin possessing a darkened, linear callus; hind femur greatly swollen, its LxW about 2:1; inner lobe of gonostylus crescentic, not rounded or triangular.....***splendens*** (*Lepeletier*)

Hind basitarsus with inner basal margin lacking a darkened, linear callus; hind femur not as swollen, its LxW about 2.5:1; inner lobe of gonostylus rounded to broadly subtriangular, not crescentic***texanus*** *Cresson*
[Note: *A. angelicus* is a western species very similar to *texanus*, that may occur at the eastern edge of the Great Plains; the hind femur is less swollen in *angelicus* (about 3:1), and the inner lobe of the gonostylus is more reduced than in *texanus*, but the base of the gonostylus is more inflated in *angelicus*.]

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Females:

1. All tergites metallic green like thorax.....2

Tergites blackish or amber-colored, not metallic green.....4

2. Scutum and scutellum "doubly punctate", i.e., with uniformly scattered large punctures on a more finely, densely punctate background (*note that this is a variable character, both the larger punctures and the smaller finer punctures varying in density and coarseness; some individuals have the scutum and scutellum quite finely punctate with the punctures slightly more separated, other individuals have the scutum and scutellum punctures closer, and slightly coarser*); pronotum with lateral angle and lateral ridge relatively sharp and right-angled; wings clear**texanus**

[*Note: Females of A. angelicus, a western species of possible occurrence in states bordering the Great Plains, are apparently indistinguishable from texanus; see male key.*]

Scutum densely punctate, rugoso-punctate or weakly reticulate, but not "doubly punctate"; pronotum with lateral angle and lateral ridge variable, wings variable.....3

3. Pronotum with dorso-lateral angle and dorso-lateral ridge blunted, not pointed or sharply edged; wings lightly infuscated; scutellum not flattened, usually more evenly rounded than in *sericeus*; sand-obligate species**splendens**

Pronotum with dorso-lateral angle pointed and produced at a distinct right angle; dorso-lateral ridge sharply-edged; wings clear; scutellum flattened, not evenly rounded; in various habitats.....**sericeus**

4. Tergites blackish, and clypeus blackish apically.....**virescens**

[*Note: A. coloradinus, a Great Plains species not yet known from MO, is very similar to virescens; females of coloradinus have finer striations on the genae than do virescens females.*]

Tergites amber-colored, at least largely so; clypeus yellow apically; Great Plains species in part, not yet known from ENA.....**melliventris**