found one live pupa in a broken-off “chimney,” and one female ovipositing on different plants. At a third site he observed three unopened “chimneys,” plus 10 eggs on yucca leaves. At the final site he found two “chimneys.” All sites are within a few miles of each other in Calloway County, Kentucky.

The Yucca Giant-Skipper has not been published as occurring in Illinois (U.S.G.S. state lists) or Missouri (J. R. Heitzman pers. com.). Leroy C. Koehn (pers. com.) reported that he has found colonies in western Tennessee, but these data have not been formally published.

These colonies represent the northern-most known occurrence of a breeding colony of *M. yuccae* along the Mississippi River. On the East Coast it extends northward to southeastern Virginia at about the same latitude as the Calloway County site; and farther west it is found in Kansas and westward also at about the same latitude (Opler & Malikul 1998).

Interestingly, Yucca has been so widely introduced and adventive populations have spread so readily beyond its historic range that it is not completely clear how far north natural populations of this plant occur (J. N. N. Campbell pers. com.). According to Medley (1993), the species is not native to Kentucky. However, with populations of the plant seemingly well established, it appears that the Yucca Giant-Skipper may now be established along with its host plant. These small colonies are vulnerable to habitat destruction, over collecting and other dangers. We hope to investigate protection of these sites and to seek other colonies in the area.

We thank Loran D. Gibson for the use of his photographs of the live Yucca Giant Skipper.

**LITERATURE CITED**


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Received for publication 1 September 2001; revised and accepted 10 July 2002.
hindwing are *E. comyntas*; those with macules could be either species (e.g., see Howe 1975, wherein all three possibilities are illustrated). Over 100 female *Everes* (76 *E. amyntula*, 42 *E. comyntas*) from the United States and northern Mexico have been dissected and a difference was detected between the genitalia of taxa commonly placed within *E. comyntas* and *E. amyntula*. The genital plate (sterigma) of *E. comyntas* is small and rounded (Figs. 1–12), while that of *E. amyntula* is comparatively larger, more triangular, and some (Figs. 17, 18, 21, 22) exhibit a notch at its posterior edge (Figs. 13–24). These exhibit some variation within both species, locally (e.g., Figs. 1–4; 19–22) and perhaps geographically, but their overall gestalt remains, including that of an *E. comyntas* from Veracruz, Mexico.

Wright (1905) illustrated, named, and briefly described *Lycaena sissona* based upon a single female from “Sisson, Cal.” (now the city of Mt. Shasta). The holotype, spread with the ventral surface upward and housed at the California Academy of Sciences (Tilden 1975), has the following labels: small, white, handwritten /400/; red, printed /HOLOTYPE*/; * Lycaena sissona* Wright /Det. J. W. Tilden 1975/; white, printed and handwritten /W. G. WRIGHT/; Plesiotype No. 400/ Illustrated in his /Butterflies of the West Coast/ /Calif. Acad. Sci. Coll./; white, printed and handwritten /California Academy /of Sciences /Type/ No. 4319/; white, printed and handwritten /Genitalic Vial /GTA - 12243/. The specimen appears to be in the same condition as when it was originally photographed (Wright 1905).

*Lycaena sissona* has largely been treated as a synonym of *Everes comyntas comyntas* (Comstock 1927, McDunnough 1938, dos Passos 1964, Miller & Brown 1981, 1983), but was placed as a synonym of *E. amyntula amyntula* “based upon Wright’s illustration” by Ferris (1989). As far as can be determined, the type has not heretofore been critically examined. Wright’s (1905) illustration is of the ventral surface and, as noted above, the only potentially useful characteristic to separate females of the two species is on the dorsal hindwing. The dorsal surface of the type is uniformly brown except for a vague orange macule proximad to a vague black marginal spot in hindwing cell *Cu1*-*Cu2*. The absence of submarginal macules and the configuration of its genital plate (Fig. 6) clearly identifies the specimen as an *E. comyntas*.

Western *E. comyntas*, specifically those in California, have not been elaborated. Dornfeld (1980), Emmel et al. (1998), and Guppy and Shepard (2001) have all considered *E. comyntas comyntas* to embrace populations in the western United States and south-western Canada. These have a paler and grayer venter than that of populations from the eastern United States and thus the white halos around the black discal macules are less distinct. The submarginal row of macules on the ventral forewing is less complete and less well-defined on individuals from California as are the...
marginal macules on the ventral hindwing. Also on the ventral hindwing, the orange macule or macules towards the tornus are notably paler in California, not bright orange. These characters conform with the holotype of *Lycaena sissona* and indicate that populations in California and perhaps elsewhere in western North America should be treated as a recognizable subspecies, *Everes comyntas sissona* (W. G. Wright, 1905), **new combination**.

In comparison with Californian populations of *E. amyntula amyntula*, *E. comyntas sissona* has a more rounded forewing termen (this appears as a useful character throughout the distribution of both species, contra Downey 1975), has less dorsal blue (usually without, except on the short-day form), the ventral hindwing orange is usually more prominent, and the ventral forewing macules are usually further from the submarginal macules and form a straighter row (usually more sinuate on *E. amyntula*). The male has a broader black margin on the dorsal forewing (usually very thin on *E. amyntula*) and usually has at least one orange macule on the dorsal hindwing (usually absent on *E. amyntula*). The female of *E. comyntas* from throughout the species' distribution have a thin line of black scales at the distal end of the forewing discal cell whereas this was not seen on examined *E. amyntula*. Females of both species often have a similar and sometimes broader black mark in the discal cell. This is most readily seen on extensively blue individuals.

In California, *E. comyntas* apparently mostly inhabits lowlands, frequently along ditches and other waterways (Opler & Langston 1968, Shapiro 1974a, 1974b, but see Garth & Tilden 1963); *E. amyntula* is largely montane (Comstock 1927, Emmel & Emmel 1962, Shapiro et al. 1979). In Oregon, the two species fly sympatrically and synchronically at several sites in the Coast Range (fide A. D. Warren). *Everes comyntas* has a long flight season and may have two to five broods annually (Opler & Langston 1968, Shapiro 1974a) whereas *E. amyntula* are apparently univoltine or bi-
voltine (Emmel & Emmel 1962, 1973, Shapiro et al. 1979). Both species use a variety of legumes (Fabaceae) as larval hostplants (Emmel & Emmel 1962, 1973, Shapiro 1974a, 1974b, Shapiro et al. 1979), including alien taxa (Shapiro 2002). Whether there are any hostplant preferences for either species, except those imposed ecologically, has not been reported in California. In Colorado, _E. comyntas_ uses larval hostplants occupying more mesic sites than those of _E. amyntula_ (Scott 1992).

I thank Norman D. Penny at the California Academy of Sciences for loaning and permitting dissection of the type of _Lycaena sissona_. Chuck Hagensen and Sterling O. Mattoon graciously led me to populations of _E. comyntas_ in California and allowed examination of specimens in their collections. Andrew D. Warren read a draft of the manuscript and made useful comments.

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Received for publication 28 May 2002; revised and accepted 14 August 2002.