

## A new species of *Eucosma* Hübner from the Western United States (Lepidoptera: Tortricidae: Eucosmini)

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### Abstract

*Eucosma aurilineana*, new species, is described from five western states. The adults and male and female genitalia are illustrated, along with adults and female genitalia of two similar species, *Eucosma crambitana* and *E. ridingsana*.

**Key words:** *Eucosma aurilineana*, *E. crambitana*, *E. griselda*, *E. ridingsana*, Arizona, California, Nevada, Olethreutinae, Tortricidae, Utah, taxonomy, Wyoming

### Introduction

In late summer several years ago, a large, gold-striped, silvery-white *Eucosma* began to appear in my patio UV light trap. Attempts to identify the species from a search of the existing literature and regional museum collections failed. Additional searching located a few specimens in the Essig Museum of Entomology (University of California, Berkeley) and in two private collections. I then concluded that the moth was undescribed, and a description is now provided.

In color and maculation the new species is similar to *Eucosma crambitana* (Wlsm.) and *E. ridingsana* (Rob.), with which it is sympatric and synchronic at the type locality. For this reason I am including photographs of the adults and female genitalia of *E. crambitana* (Figs. 2b, 6, 8b) and *E. ridingsana* (Figs. 2a, 7, 8c). The male genitalia of *crambitana* and *ridingsana* were illustrated by Heinrich (1923, figs. 213, 210 respectively). Apparently the female genitalia of *E. crambitana* have not been illustrated in the literature. Partial female genitalia (sterigma) of *E. ridingsana* were illustrated by Blanchard & Knudson (1981, figs. 8–21). Based on genitalic characters, the new species does not appear to be related to either *E. crambitana* or *E. ridingsana*, and its affiliation is uncertain.