

ARIZONA GAME AND FISH DEPARTMENT  
HERITAGE DATA MANAGEMENT SYSTEM

Invertebrate Abstract

Element Code: IILEY11070

Data Sensitivity: No

**CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE**

**NAME:** *Oligocentria pinalensis*

**COMMON NAME:** A Notodontid Moth

**SYNONYMS:**

**FAMILY:** Notodontidae

**AUTHOR, PLACE OF PUBLICATION:** F.H. Benjamin, Pan-Pacific Entomologist 8:55-60.  
1932.

**TYPE LOCALITY:**

**TYPE SPECIMEN:**

**TAXONOMIC UNIQUENESS:** There are 10 species in this genus with 5 of them occurring in Arizona.

**DESCRIPTION:** For the family the adults are medium sized to large, typically with a relatively long forewing and stout body that extends two or more times the width of the hind wing. The head often has scale tufts or crests. The antennae are usually bipectinate to the tip in the male, filiform or sometimes bipectinate in the female. Proboscis is usually well developed and coiled. The abdomen is densely covered with long, slender scales and sometimes dorsal scale tufts at the base. The tips of the tibial spurs are serrated. These are mostly dull-colored, tan, brown, or gray moths. The larval body is stout, nearly bare, sometimes with a long secondary setae, often possessing one or more protuberances. Larvae have two MD setae above the spiracle on abdominal segments, whereas other noctuoids have only one.

**AIDS TO IDENTIFICATION:** Larvae have two MD setae above the spiracle on abdominal segments, whereas other noctuoids have only one.

**ILLUSTRATIONS:**

**TOTAL RANGE:** Known only from the Pinal Mountains, Gila County, Arizona.

**RANGE WITHIN ARIZONA:** See "Total Range."

**SPECIES BIOLOGY AND POPULATION TRENDS**

**BIOLOGY:** According to NatureServe (2004), adult males are powerful fliers but heavily laden females are probably not. Very few species feed as adults and so they probably do not live long.

**REPRODUCTION:** In the Order Lepidoptera, segmental appendages of the abdomen are absent except for vestiges that may form parts of the genitalia. The genitalia of both sexes are often complex and bear characteristic spines, teeth, setae, and scale tufts. These structures are important in complex courtships and matings, preventing hybridization between unsuitable males and females. During copulation in males, a median, tubular organ (the aedeagus) is extended through an eversible sheath (vesica) to inseminate the female. The female genitalia exhibit a number of different patterns of the internal ducts and the openings, varying from a condition in which there are no special genital openings, insemination and egg laying taking place through a single aperture, shared with the excretory system, to one in which there are two specialized openings, one for insemination and one for oviposition, both distinct from the anus.

The testes of the male are paired in primitive lepidopterans but fused into a single organ in advanced forms. In both cases, the sperm ducts are paired. As in other insects, the sperm pass from the testes down paired ducts for storage in sacs called seminal vesicles. The female reproductive system consists of paired ovaries, paired accessory glands that provide the yolks and shells of the eggs, and a system of receptacles and ducts for receiving, conducting, and storing sperm. The individual oviducts join to form a common oviduct that leads to the vagina. In copulation, the male deposits a sperm capsule (spermatophore) in a receptacle (bursa copulatrix) of the female. The spermatophore releases the sperm, which swim into the oviduct and thence to the seminal receptacle (bulla seminalis) where they are stored until egg laying, which may be hours, days, or months after mating.

**FOOD HABITS:** For the family, larval foods include a wide diversity of dicot angiosperms, mainly woody shrubs and trees. A few larvae feed on grasses.

**HABITAT:** Unknown

**ELEVATION:** Unknown

**PLANT COMMUNITY:** Unknown

**POPULATION TRENDS:** Unknown

**SPECIES PROTECTION AND CONSERVATION**

**ENDANGERED SPECIES ACT STATUS:** None

**STATE STATUS:** None

**OTHER STATUS:**

**MANAGEMENT FACTORS:** Threats to this species include its extremely limited known range. A single event, such as an extensive fire, could or could have eliminated this moth's only known population.

**PROTECTIVE MEASURES TAKEN:**

**SUGGESTED PROJECTS:** Life history, population status, and population range studies need to be performed.

**LAND MANAGEMENT/OWNERSHIP:** Unknown

**SOURCES OF FURTHER INFORMATION****REFERENCES:**

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**MAJOR KNOWLEDGEABLE INDIVIDUALS:****ADDITIONAL INFORMATION:**

Any moth of the family Notodontidae (a notodontian) is considered a "Prominent moth", so called because the larva has a hump or prominence on its back (<http://dict.die.net>).

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