

State of the Fireflies of the United States and Canada:



Florida Scrub Dark Firefly

THREATENED & NEAR THREATENED SPECIES PROFILE

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This species profile was compiled based on information gathered from the IUCN Red List assessments and augmented with new information that has become available since its publication. Full Red List assessments (including range maps) are available at www.iucnredlist.org/.

KEY TO SPECIES PROFILE

Conservation Status

IUCN—Red List ranking

NS—NatureServe Global (G), National (N), and Subnational (S) Conservation Status Rank:

GX NX SX	Not located despite intensive searches and virtually no likelihood of rediscovery
GH NH SH	Known from only historical occurrences but still some hope of rediscovery
G1 N1 S1	At very high risk of extinction or collapse
G2 N2 S2	At high risk of extinction or collapse
G3 N3 S3	At moderate risk of extinction or collapse
G4 N4 S4	At fairly low risk of extinction or collapse
G5 N5 S5	At very low risk of extinction or collapse
GNA NNA SNA	A conservation status rank is not applicable because the species or ecosystem is not a suitable target for conservation activities
GNR NNR SNR	Global rank not yet assessed
GU NU SU	Currently unrankable due to lack of information or due to substantially conflicting information about status or trends
G#G# N#N# S#S#	Numeric range rank (e.g., G2G3, G1G3) is used to indicate uncertainty about the exact status of a taxon or ecosystem type

SGCN—Species of Greatest Conservation Need, legal designation by state

US ESA—Species' legal status under the US Endangered Species Act

Male Size Ranges

The documented size range for males of each species has been provided in the profiles as follows:

9–10 mm



With the smallest size in grey () superimposed over the largest size in green (). When printed at 100% scale, the bars match the lengths provided.

Habitat Threats

Pollution	Agriculture	Habitat Loss, Degradation, Fragmentation	Climate & Severe Weather
Excess light	Crop systems	Habitat loss	Climate change
Energy & mining	Livestock & pasture	Commercial & development	Severe storms & flooding
Pesticides & run-off		Trampling / crushing	Rising temperatures
		Urban & residential development	Drought
		Invasive species	Sea level rise
		Water quality	

Lucidota luteicollis

Florida Scrub Dark Firefly



< VULNERABLE >

VU



An example of the species' longleaf pine habitat [above]; adult male Florida scrub dark firefly [middle]; male and female aboveground [bottom]. (Photos: Leo Miranda, USFWS / Flickr [above]; Brandon Woo / BugGuide [middle and on cover]; James E. Lloyd / University of Florida [bottom].)

Conservation Status

- » IUCN: VU
- » NS: G1G2, SNR (FL)
- » SGCN: None
- » US ESA: Not listed

Distribution

USA—Florida

Description

The Florida scrub dark firefly is a habitat specialist associated with very dry habitats in Florida's scrub, sandhill, and longleaf pine savannah habitats. It appears to be confined to upland ridges. The activity period of this diurnal species is not well known. Flightless adult females, which are subterranean, likely attract males by releasing pheromones. Females may avoid coming aboveground even to mate; opting instead to mate with males through the sand.

Threats to this species include habitat loss and degradation, climate change and associated drought, and trampling of flightless females.

Flash Pattern & Activity Period

This is a daytime dark firefly species that uses pheromones to find mates. Adults are known to be active from March through September, with an early season peak in April.

