# Invertebrates with Endangered Species Act status in Wyoming

#### **Listed Threatened**

#### Western Glacier Stonefly (Zapada glacier)

Who: Insect, Stonefly (Plecoptera), Spring Stoneflies (Nemouridae)

**ESA action**: Petitioned for ESA listing in 2010 Received a substantial 90-day find in 2011

Received a substantial 12 month finding in 2016

Listed Threatened in 2019

Species Biological Report in 2020

Draft Recovery Plan in 2021 (target Final in 2022)

Where: Alpine streams of Glacier National Park and the Teton Range

What is WYNDD doing: Annual surveys since 2015, increased the number of sites known (Thanks to UW-

**Coming up**: Currently identifying *Zapada glacier* in other mountains of Wyoming. Results expected spring 2022. Funding from the R2 Forest Service.



#### **Warranted but precluded**

#### Monarch (Danaus plexippus)

**Who**: Insect, Butterfly (Lepidoptera), Fritillary (Nymphalidae)

**ESA action**: Petitioned for ESA listing in 2013 Received a substantial 90-day find in 2015

Warranted but precluded decision in December 2020

Annually reviewed, planned ESA listing in 2024

Where: Most of continental United States, migrates from southern Mexico

to southern Canada and back annually

What is WYNDD doing: Observed 11 Monarchs in eastern Wyoming during

2021 (Thanks to Wyoming Governor's Office!) Coming up: 2022 surveys in eastern Wyoming



#### **Petitioned for listing**

## Narrow-foot Hygrotus Diving Beetle (Hygrotus diversipes)

Who: Insect, Beetle (Coleoptera), predacious diving beetle (Dytiscidae)

ESA action: Category 2 Candidate Species from 1989 to 1996

Petitioned for ESA listing in 2007, 2008 and 2013

Received a substantial 90-day find in 2016

Species Status Assessment expected summer 2022

Listing decision in 2023

Where: Found only in intermittent streams of central Wyoming

What is WYNDD doing: Annual surveys of known sites since 2010 and 3 statewide surveys (Thanks to BLM & Wyoming Governor's Office!)

Coming up: Intensive work at known sites



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#### Suckley Cuckoo Bumble Bee (Bombus suckleyi)

Who: Insect, Bee (Hymenoptera), bumble bee (Apidae)

**ESA action**: Petitioned for ESA listing in 2020 Received a substantial 90-day find in 2021

Under review, but not part of current 5-year listing workplan

Where: Western United States, throughout Wyoming

What is WYNDD doing: Statewide survey for Wyoming (Thanks to BLM!)

**Coming up**: Searching for funding to continue bumble bee surveys



#### Western Bumble Bee (Bombus occidentalis)

Who: Insect, Bee (Hymenoptera), bumble bee (Apidae)

**ESA action**: Petitioned for ESA listing in 2015 Received a substantial 90-day find in 2016

Species Status Assessment expected summer 2022

Listing decision in 2023

Where: Western United States, throughout Wyoming

What is WYNDD doing: Statewide survey and predictive distribution model for

Wyoming, resampled historic sites (Thanks to BLM!)

Coming up: Searching for funding to continue bumble bee surveys



### American Bumble Bee (Bombus pensylvanicus)

Who: Insect, Bee (Hymenoptera), bumble bee (Apidae)

**ESA action**: Petitioned for ESA listing in 2021 Received a substantial 90-day find in 2021

Under review, but not part of current 5-year listing workplan

Where: Eastern United States, eastern Wyoming

What is WYNDD doing: Statewide survey in Wyoming (Thanks to BLM!) Coming up: Searching for funding to continue bumble bee surveys



## Regal Fritillary (Argynnis idalia)

Who: Insect, Butterfly (Lepidoptera), Fritillary (Nymphalidae)

**ESA action**: Petitioned for ESA listing in 2013 Received a substantial 90-day find in 2015

Species Status Assessment and Listing decision in 2022

Where: From eastern Wyoming to east coast, disappeared from eastern

portion of range

What is WYNDD doing: Surveys in summer 2021, 5 individuals observed from 5

sites (Thanks to Wyoming Governor's Office!)

Coming up: 2022 Surveys in eastern Wyoming





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### **Great Basin Silverspot (Speyeria nokomis nokomis)**

**Who**: Insect, Butterfly (Lepidoptera), Fritillary (Nymphalidae)

**ESA action**: Petitioned for ESA listing in 2013 Received a substantial 90-day find in 2016 Listing decision expected spring 2022

Where: Southwestern United States (no records in Wyoming, but

observations along boarder in Colorado and Utah)
What is WYNDD doing: Surveys in 2019, none observed
Coming up: Searching for funding for more surveys



### Questions about invertebrates in Wyoming?

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