

Wyoming Natural Diversity Database (WYNDD)



W Y N D D
Wyoming Natural
Diversity Database

***A service and research unit of the
University of Wyoming dedicated to
collection, interpretation, and
dissemination of scientific
information on the rare species and
important habitats of Wyoming***

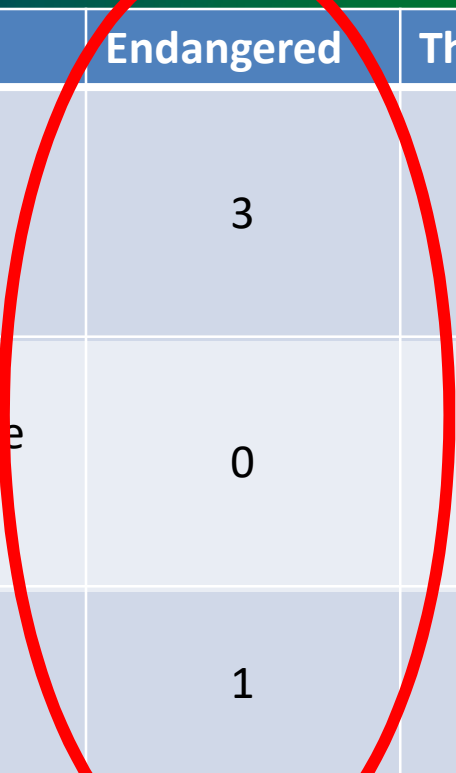
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ESA ISSUES FACING WYOMING – 12 December 2019

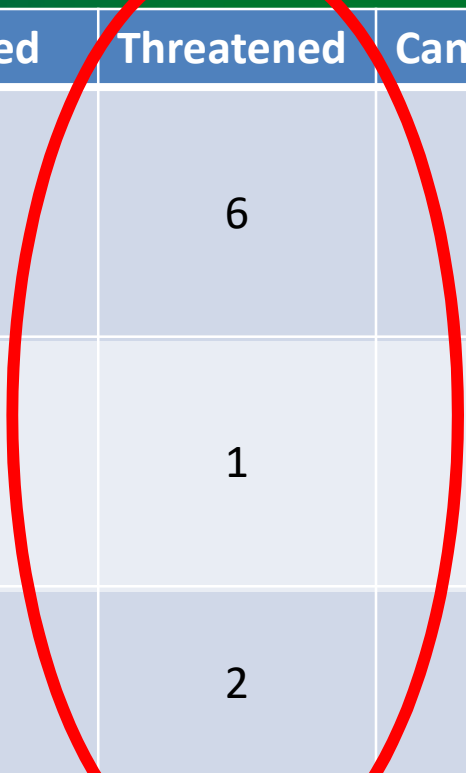
Wyoming's ESA "dashboard"



	Endangered	Threatened	Candidate	De-listed	Under Review
Resident vertebrate animals	3	6	0	3	4
Resident invertebrate animals	0	1	0	0	4
Resident plants	1	2	1	0	0

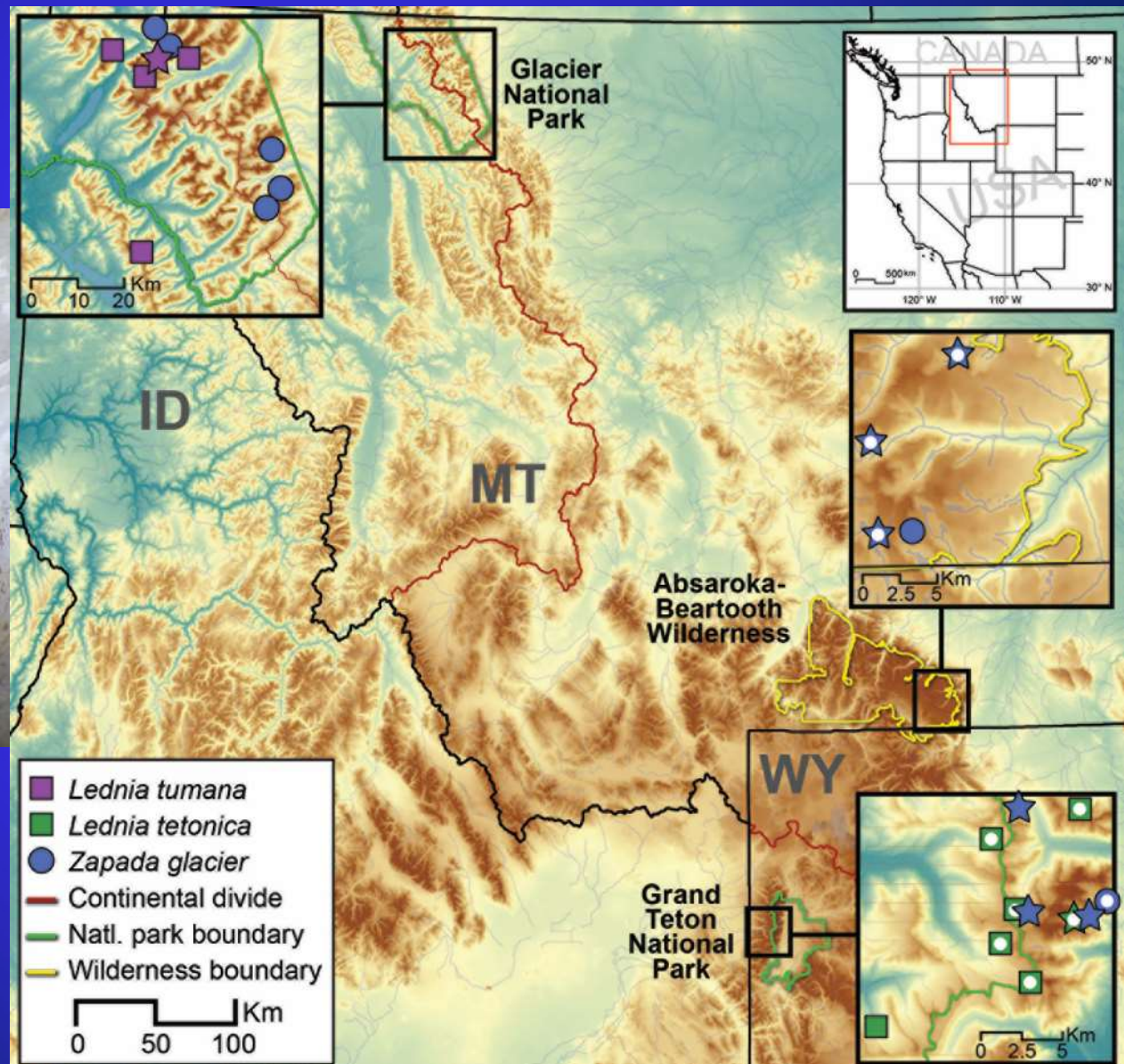
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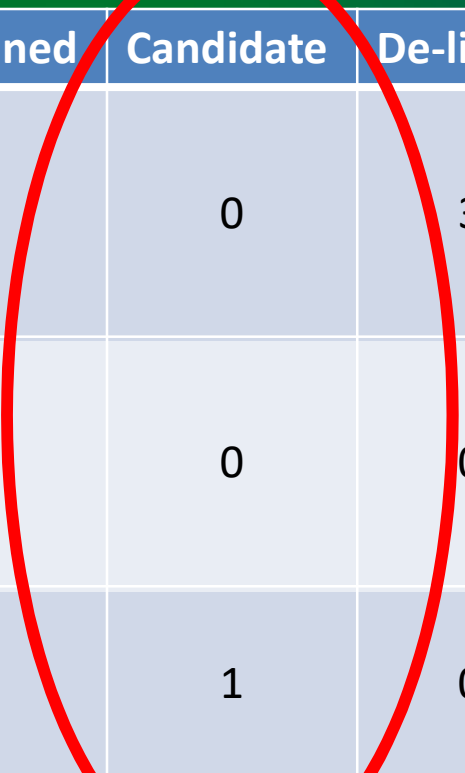
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Western Glacier Stonefly (*Zapada glacier*); Wyoming's first ESA-listed (Threatened) invertebrate



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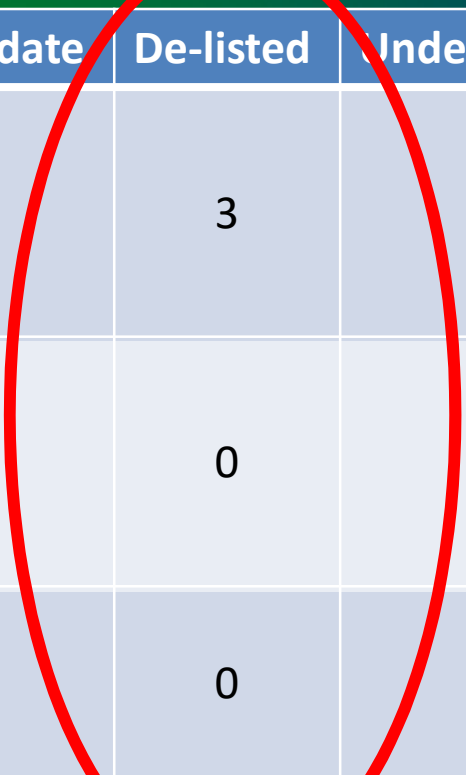


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Wyoming species officially de-listed from the ESA

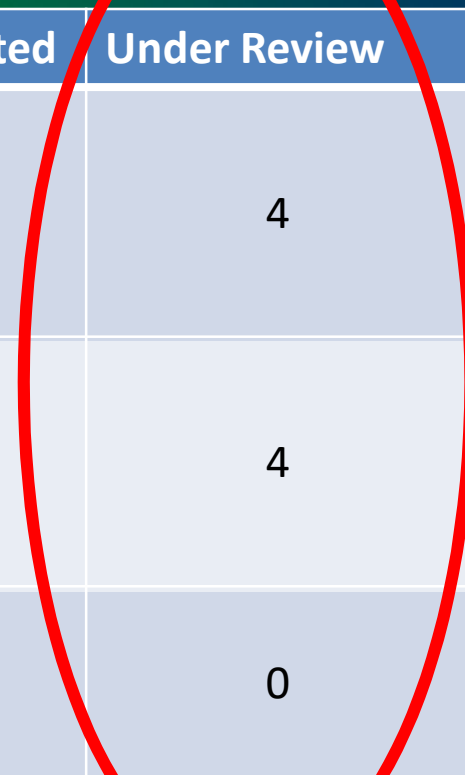


**Colorado Butterfly Plant
(*Oenothera coloradensis*)**

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Wyoming species found NOT WARRANTED for ESA listing, Dec 2018 – Dec 2019



Fremont County Rockress
(*Boechera pusilla*)



Yellow-banded
Bumblebee
(*Bombus terricola*)

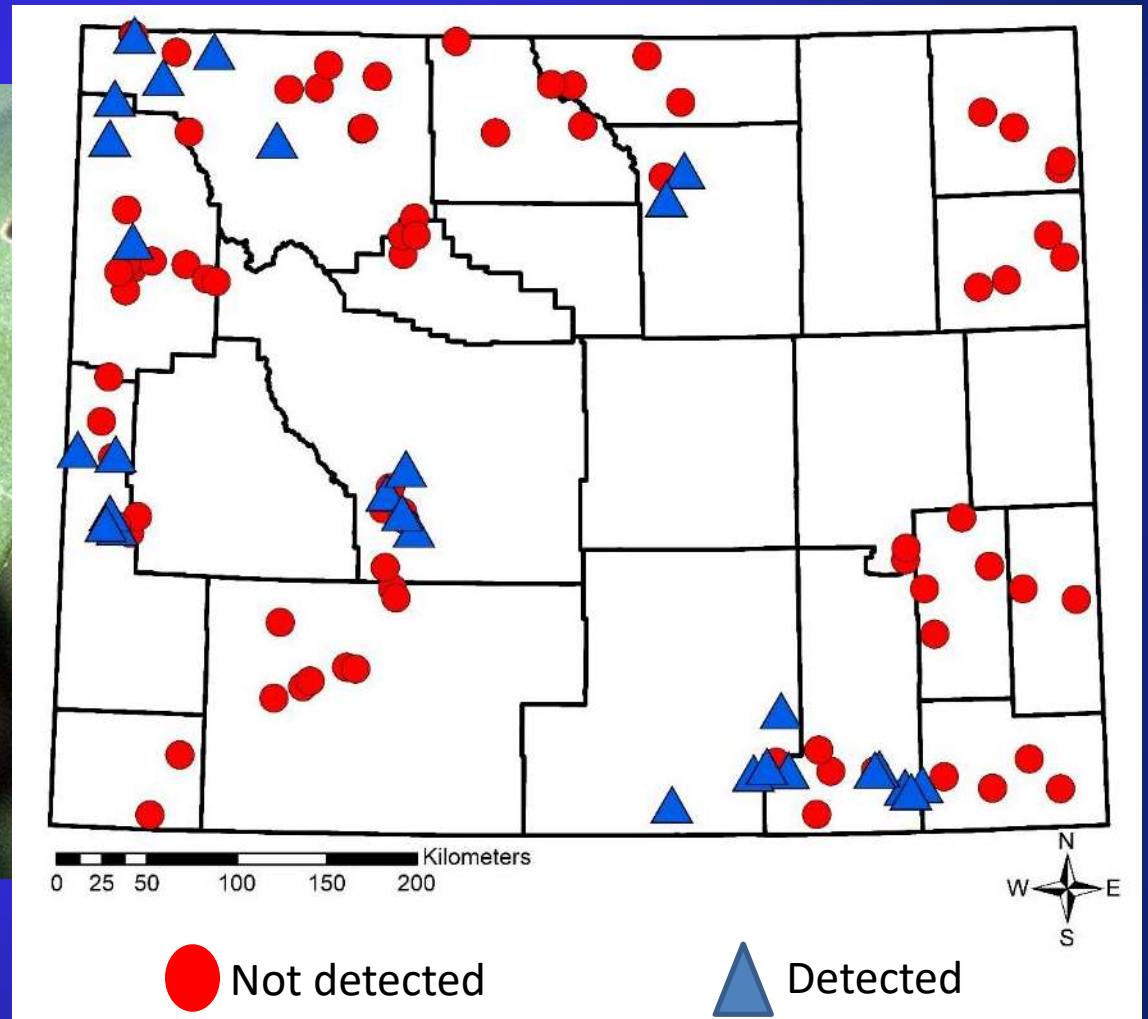


"Yellowstone" Bison
(*Bos bison bison*)

Wyoming species under active petition for listing under ESA



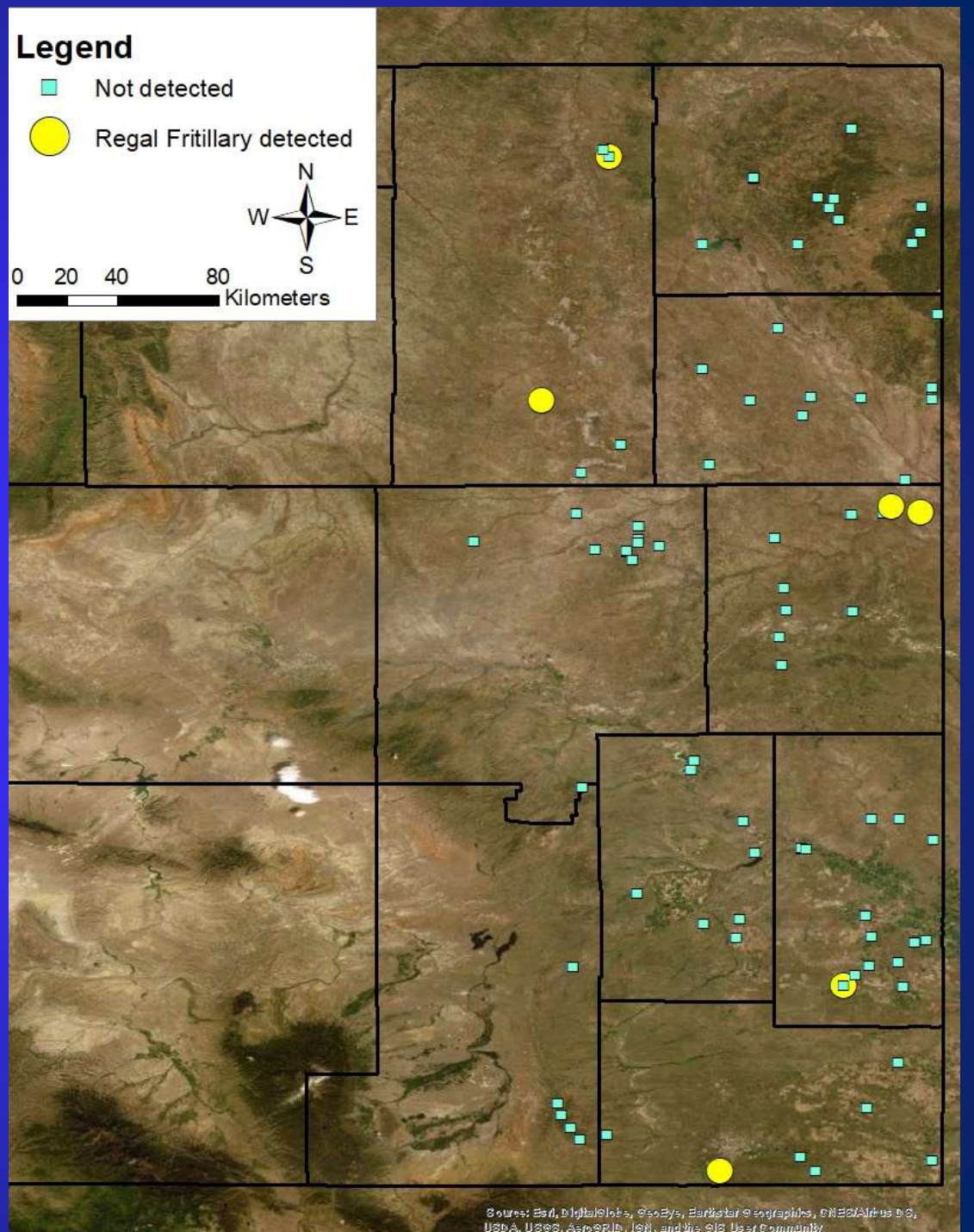
Western Bumblebee
(*Bombus occidentalis*)



Wyoming species under active petition for listing under ESA



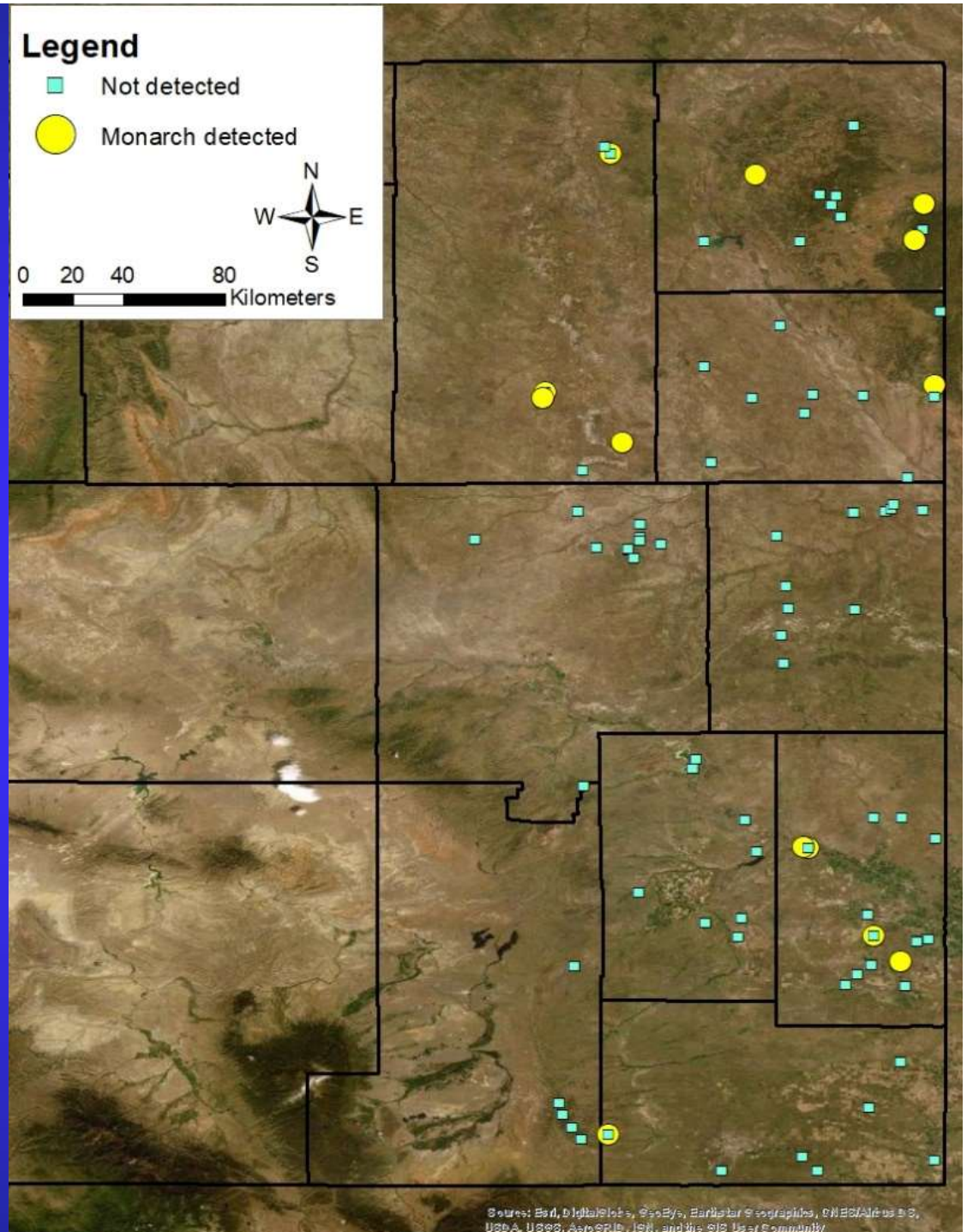
Regal Fritillary
(*Speyeria idalia*)



Wyoming species under active petition for listing under ESA



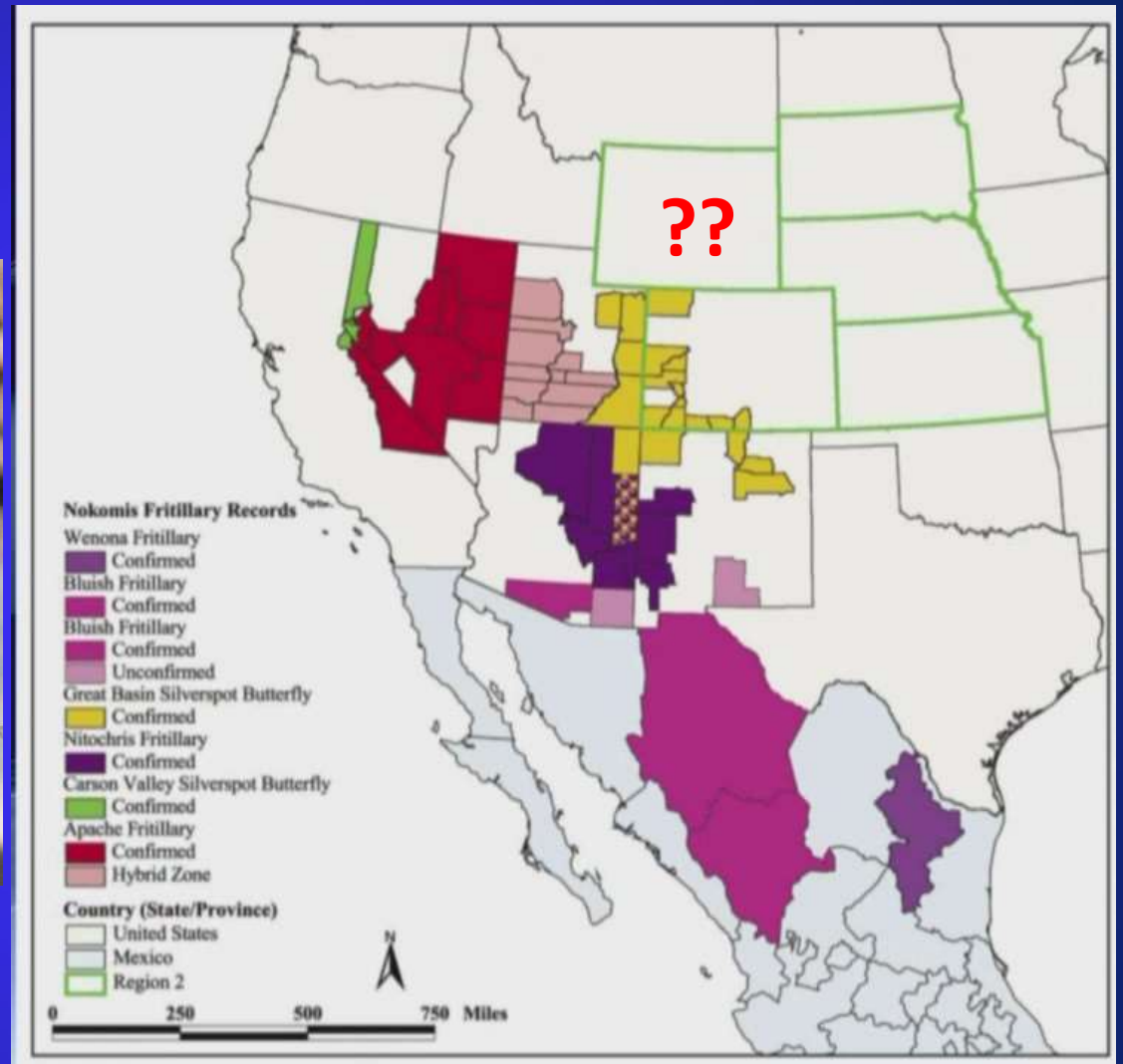
Monarch Butterfly
(*Danaus plexippus*)



Wyoming (??) species under active petition for listing under ESA



Great Basin Silverspot
(*Speyeria nokomis nokomis*)



WYNDD completed 56 research projects from November 2018 – November 2019

21 (37.5%) addressed Endangered, Threatened, Candidate, or petitioned species

WYNDD is currently performing on 64 research projects

24 (37.5%) address Endangered, Threatened, Candidate, or petitioned species

ESA ISSUES FACING WYOMING – 12 December 2019

Northern Long-Eared Myotis –

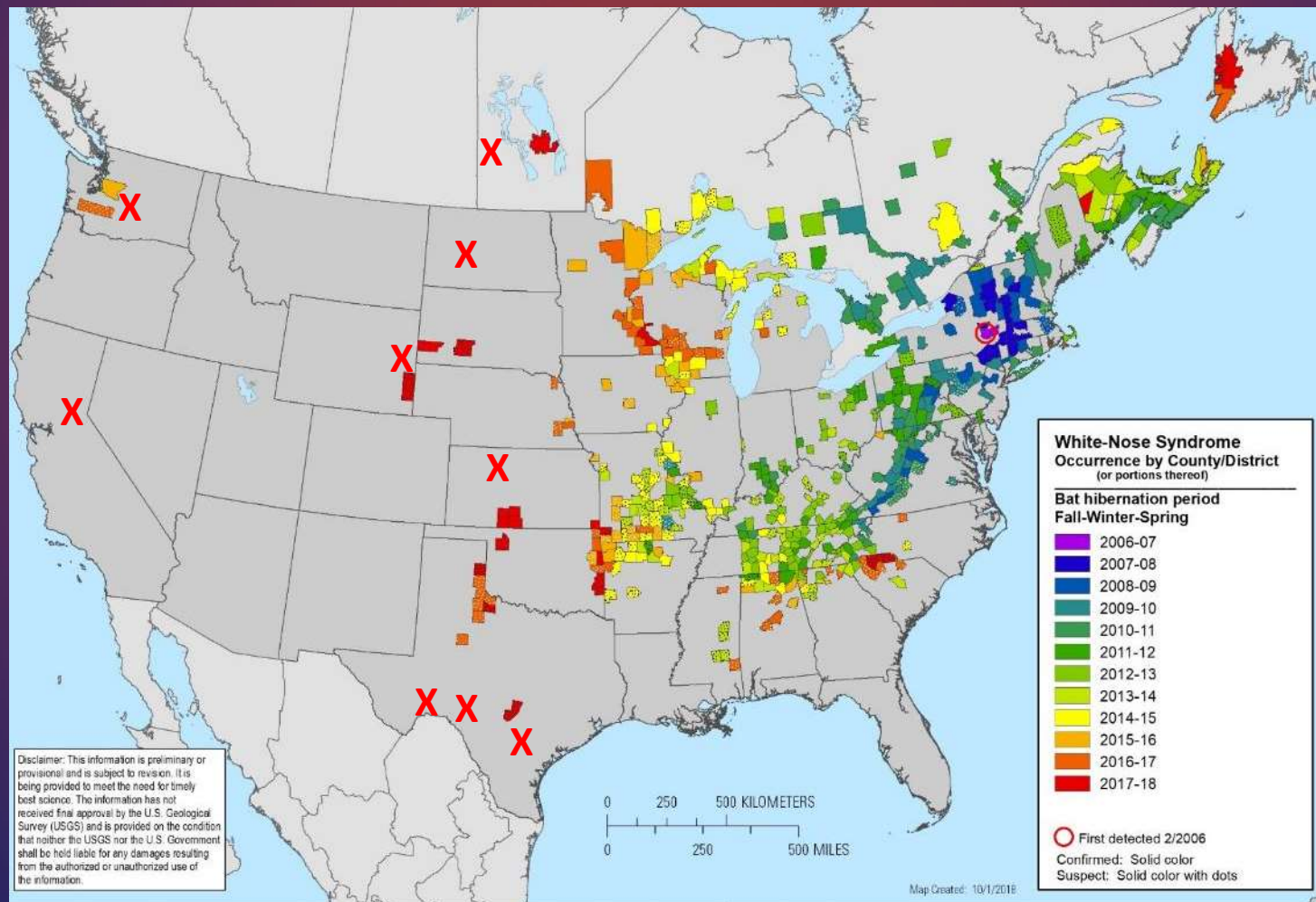
Listed Threatened

Little Brown Myotis –

USFWS decision date FY23

Tricolored Bat –

2016 petition still in 90-day phase



Citation: White-nose syndrome occurrence map - by year (2018). Data Last Updated: 10/1/2018. Available at: <https://www.whitenosesyndrome.org/resources/map>.

ESA ISSUES FACING WYOMING – 12 December 2019

Alpine species will be of increasing concern due to attention on climate change



ESA ISSUES FACING WYOMING – *12 December 2019*



Sturgeon Chub – *petitioned in 2016*



Bluehead Sucker



Flannelmouth Sucker



Roundtail Chub

ESA ISSUES FACING WYOMING – 12 December 2019

Rare invertebrates will increasingly be petitioned and listed under ESA...



Regal Fritillary
Petitioned



Western Bumble Bee
Petitioned



Great Basin Silverspot
Petitioned



Narrow-foot Diving Beetle
Petitioned



Monarch Butterfly
Petitioned

Freshwater
mussels...?



ESA ISSUES FACING WYOMING – *12 December 2019*

Golden Eagle and Ferruginous Hawk have long been assumed to be subjects of upcoming ESA petitions...



ESA ISSUES FACING WYOMING – *12 December 2019*

Continued litigation of old decisions, re-decisions, and re-re-decisions ...



Grizzly Bear



Gray Wolf



White-tailed Prairie Dog... and Black-tailed Prairie Dog...



Wolverine

New WYNDD data access tools:

Species List Tool -

wyndd.org/species_list

Wyoming Field Guide -

fieldguide.wyndd.org

Data Explorer -

wyndd.org/data_explorer