

Wyoming Wind Energy Development Sensitivity Analysis Project Final Report

Volume 2: Appendix B

Environmental Science Division

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Volume 2: Appendix B

prepared by
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November 2014

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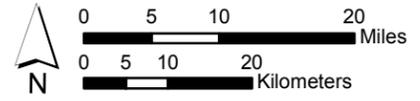
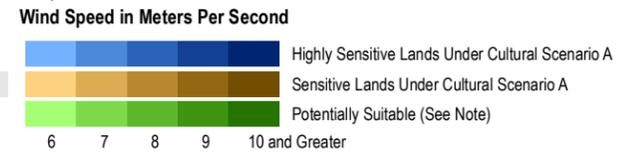
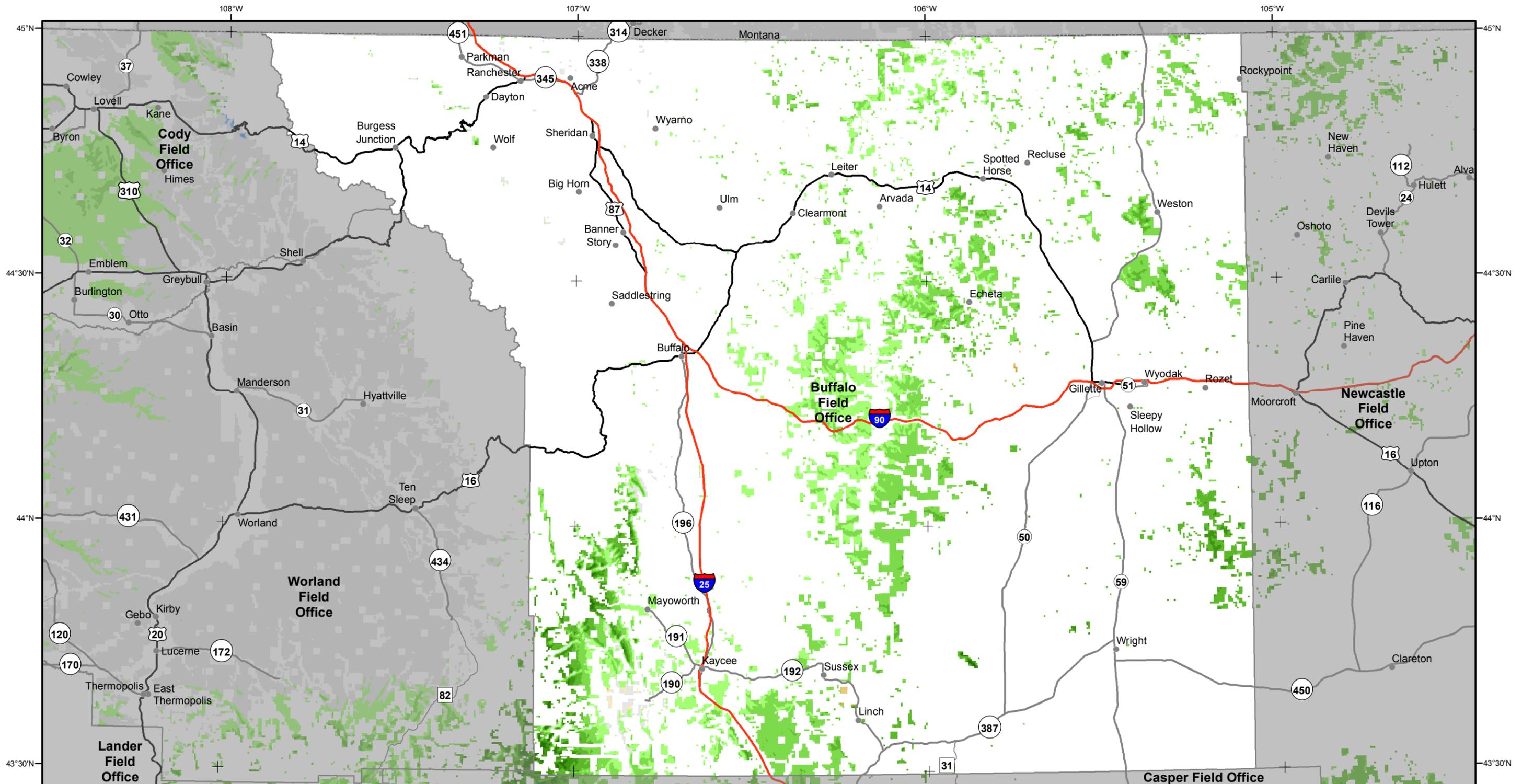
The Wyoming Wind Energy Development Sensitivity Analysis (WWEDSA) demonstrated the potential effects of hypothetical alternative environmental resource protection strategies on the availability of Bureau of Land Management (BLM)-administered lands in Wyoming for utility-scale wind development. Sensitivity scenarios were developed for ecological, visual, cultural/tribal, and paleontological resources, as well as special land uses and specially designated areas on BLM-administered lands determined to be potentially suitable for wind development. The scenarios defined specific areas as *sensitive* or *highly sensitive* with respect to impacts from wind energy development, without specifying restriction or exclusion of the lands from wind energy development.

For each resource type, multiple hypothetical wind energy development scenarios assigned progressively greater sensitivity to specific resource areas, and as a result identified increasingly larger areas as sensitive with respect to potential wind energy development. The scenarios were based on resource specialists' judgments regarding the sensitivity of the specific resources to impacts from wind energy development, and did not consider BLM's multiple use objectives, technical constraints, or other considerations that would affect BLM's decisions about individual wind energy projects. More than 50 potential resource sensitivities were identified and analyzed for the five resource types included in the WWEDSA.

Geospatial analysis was performed using a geographic information system to identify and map sensitive areas under each scenario, and to analyze spatial overlap between multiple sensitivities. More than 70 geospatial datasets were used to develop sensitivity maps for the scenarios.

The Map Atlas displays the multiple hypothetical wind energy development scenarios for each BLM Field Office in Wyoming. Each map displays the *sensitive* and/or *highly sensitive* areas as well as areas with potential for wind energy development on BLM-administered land. Note that the legend in the lower left corner of each map is fixed and may show symbols for features that are not found on the map (for example, all resources analyzed in the visual scenarios were *highly sensitive* and none were *sensitive*). In addition, because paleontological resources had no scenario A and land use resources had no scenario C, those maps were not printed for the atlas.

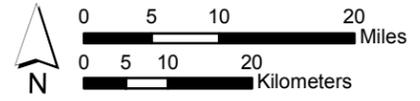
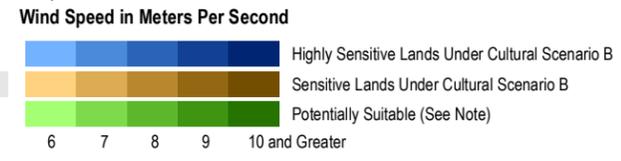
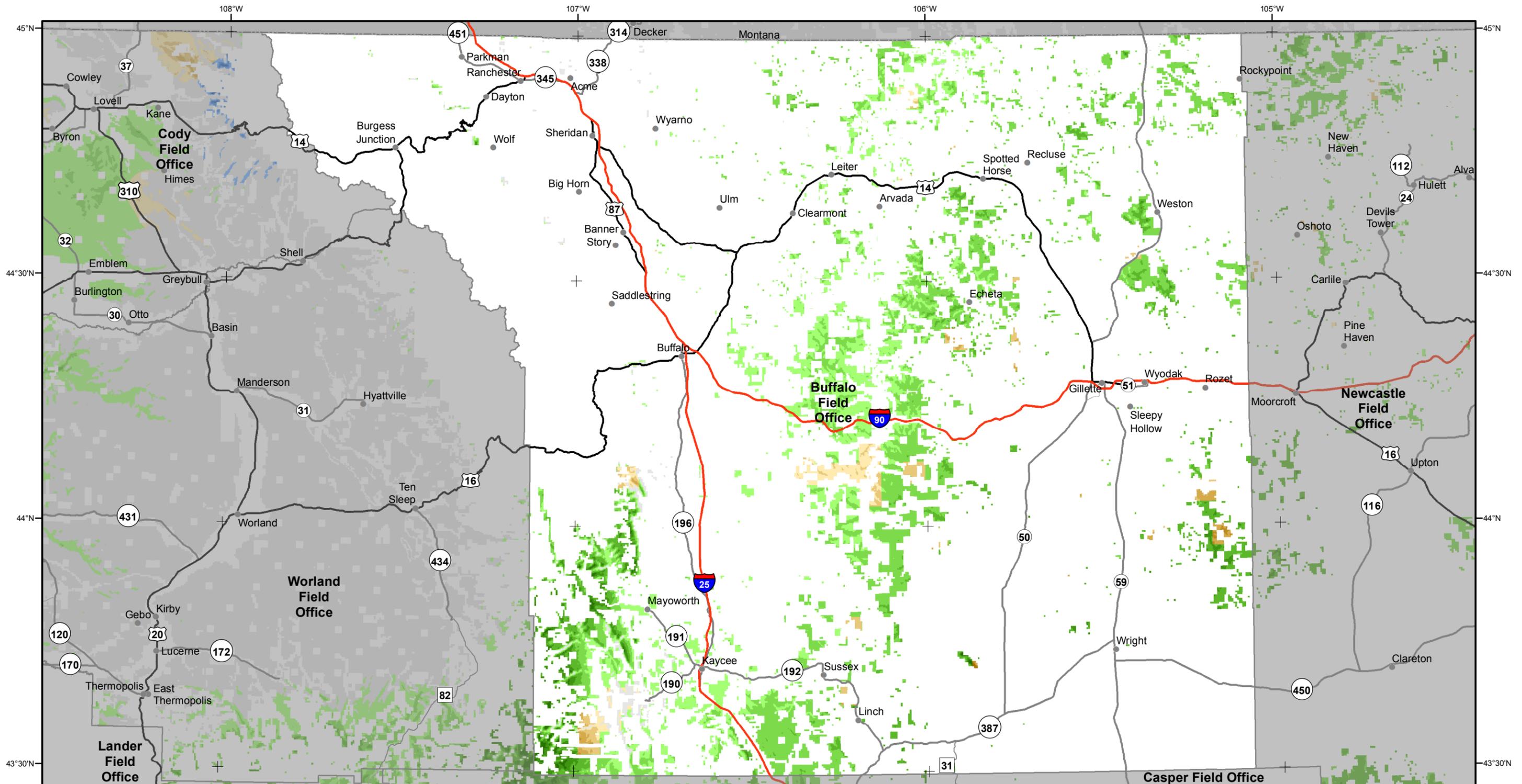
The maps are all based on an Albers Equal Area Projection. Tick marks inside the maps are found at the intersections of the tick marks for latitude and longitude labeled in the margins.



Cultural Scenario A

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

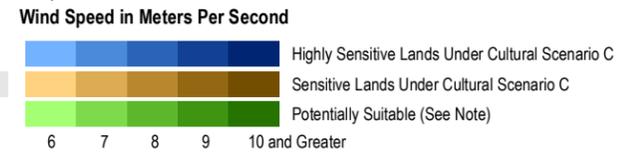
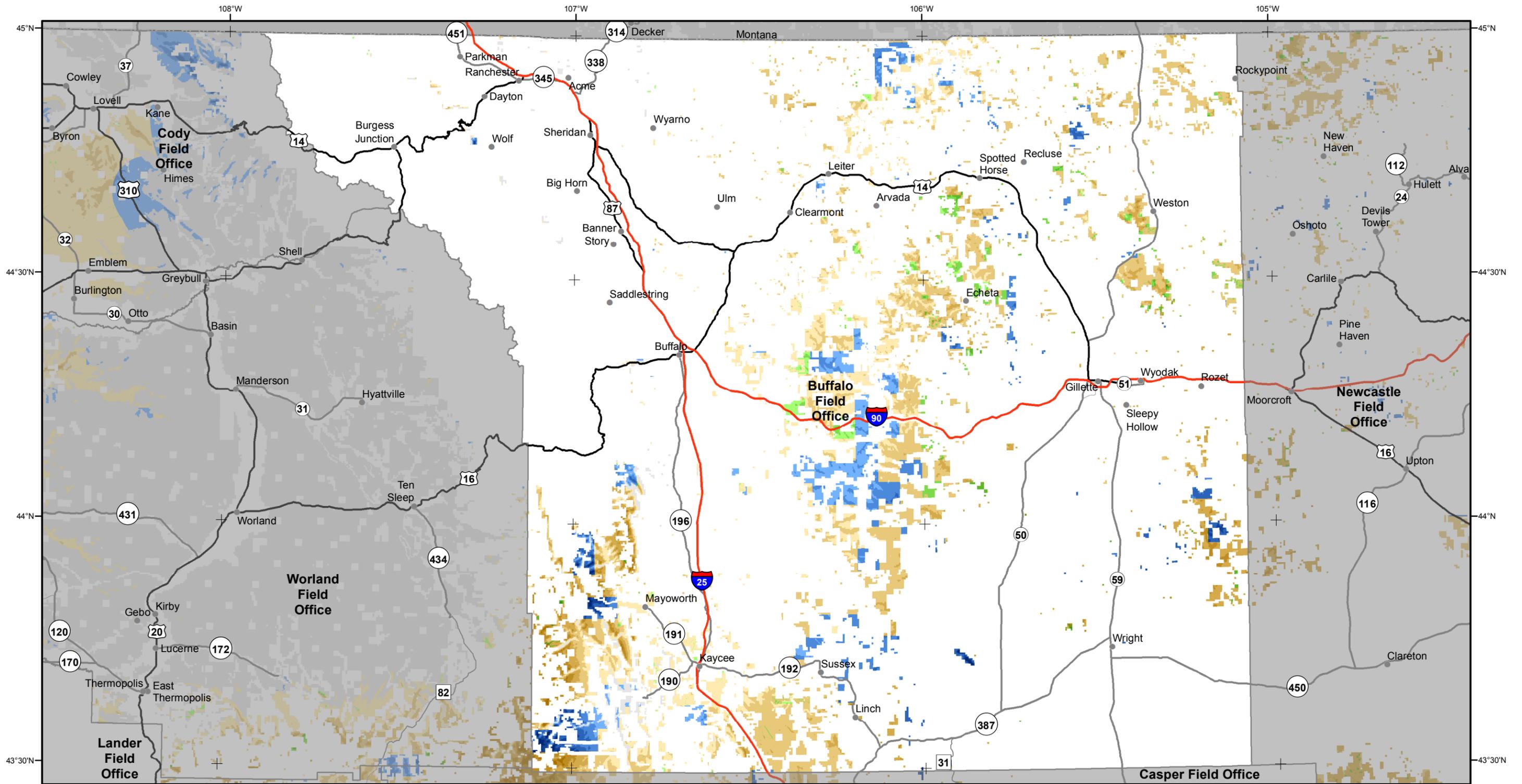
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Cultural Scenario B

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

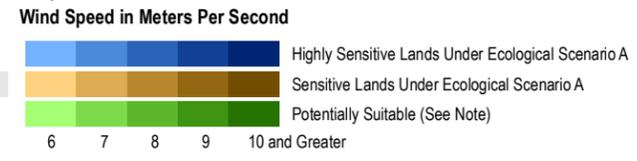
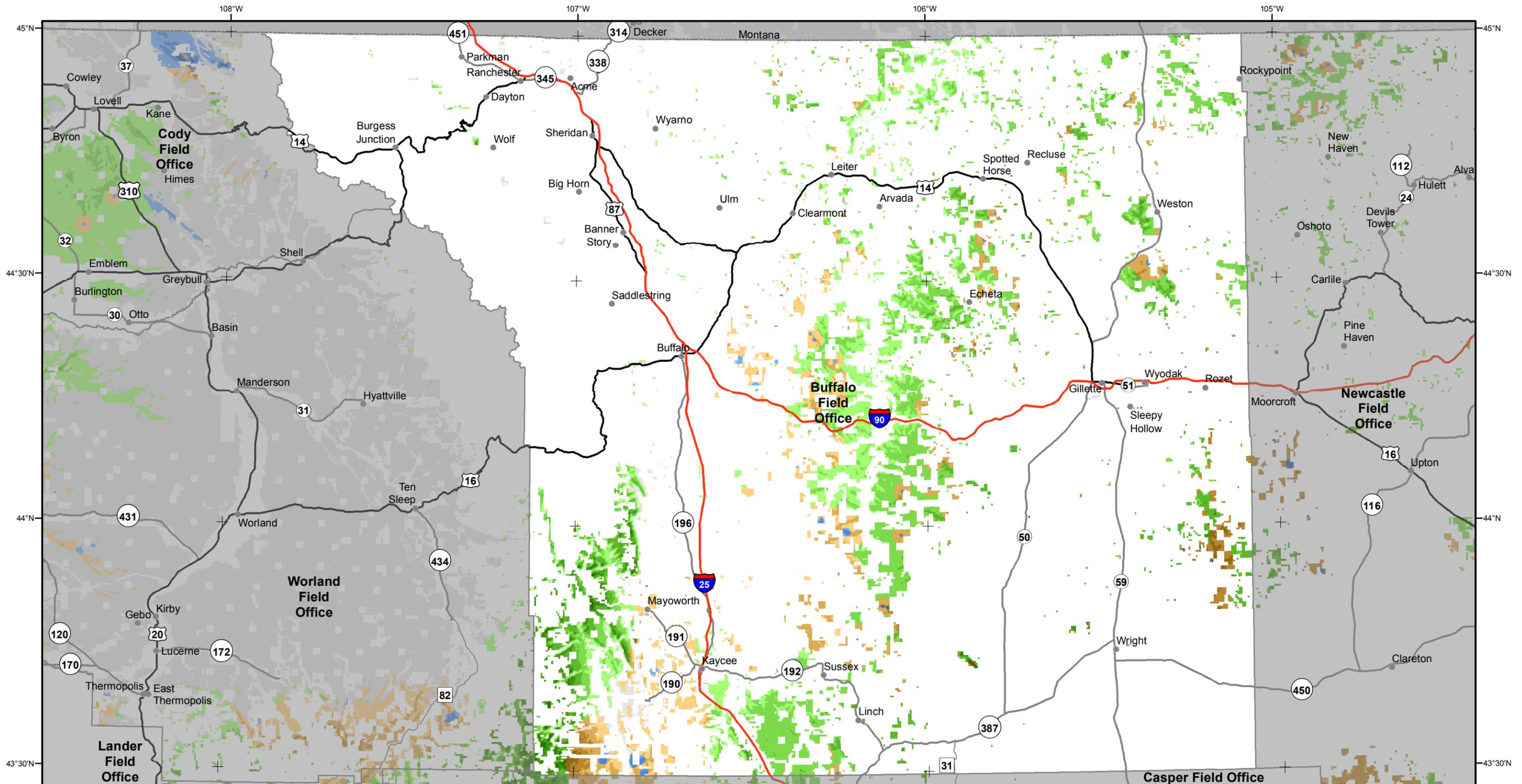
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Cultural Scenario C

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

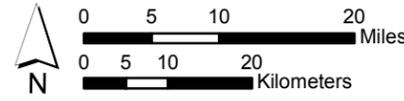
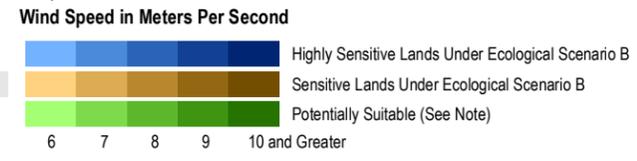
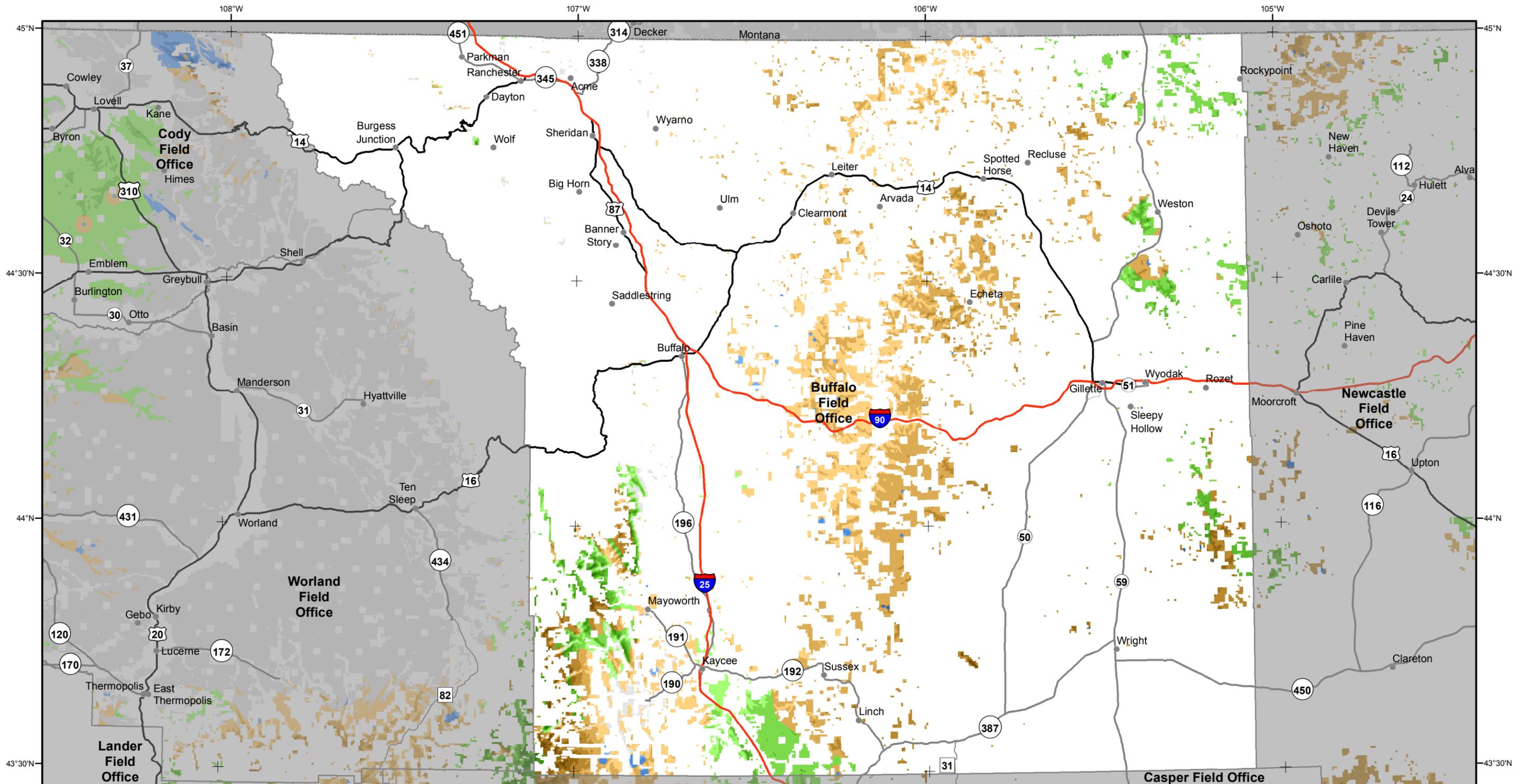
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Ecological Scenario A

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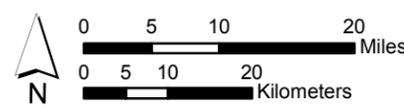
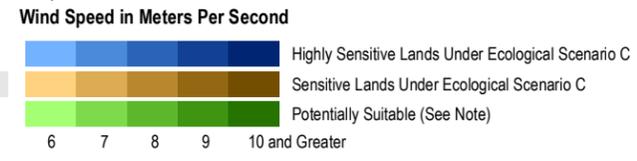
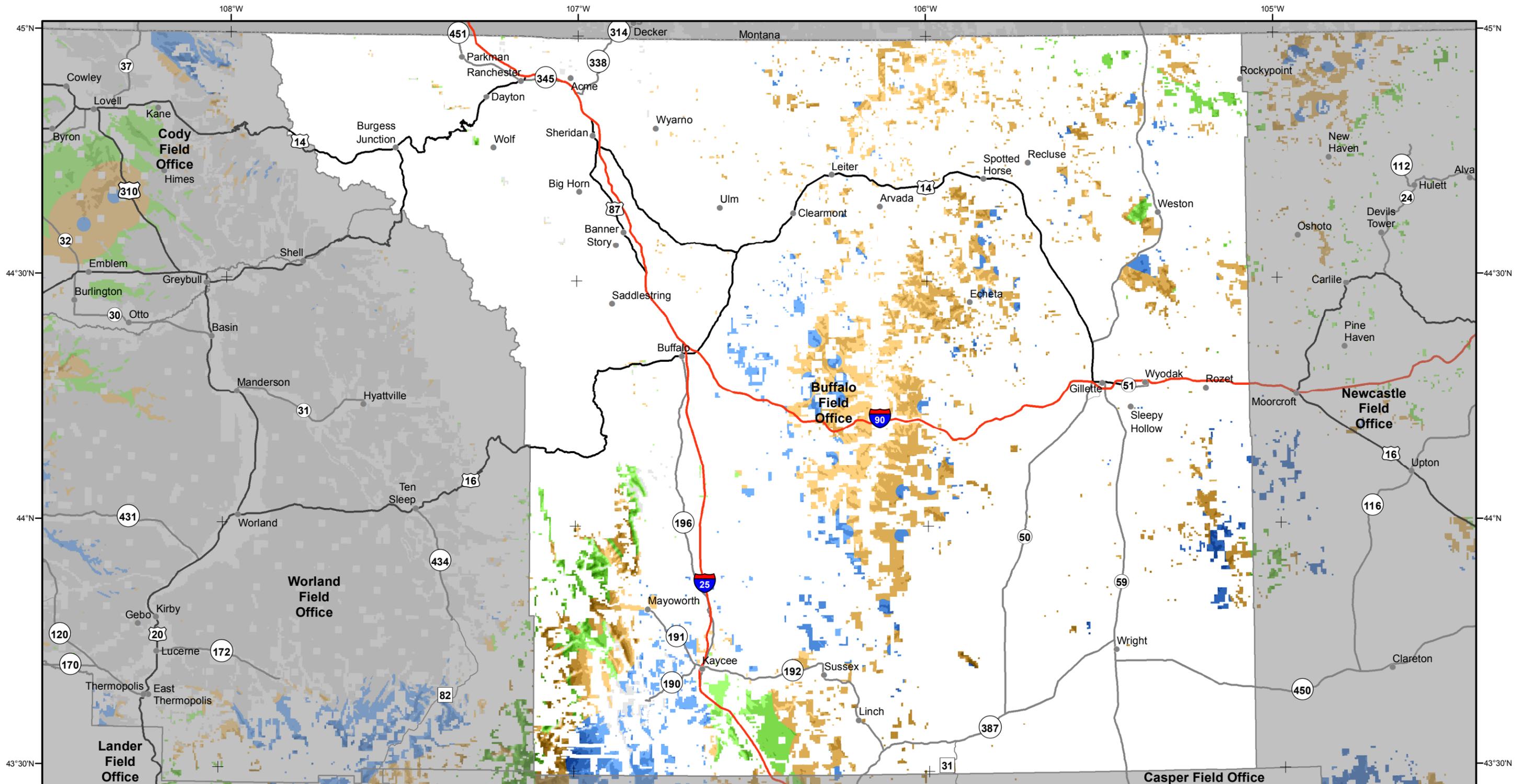
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Ecological Scenario B

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

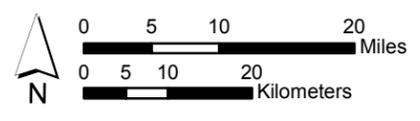
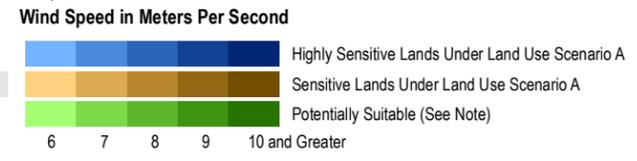
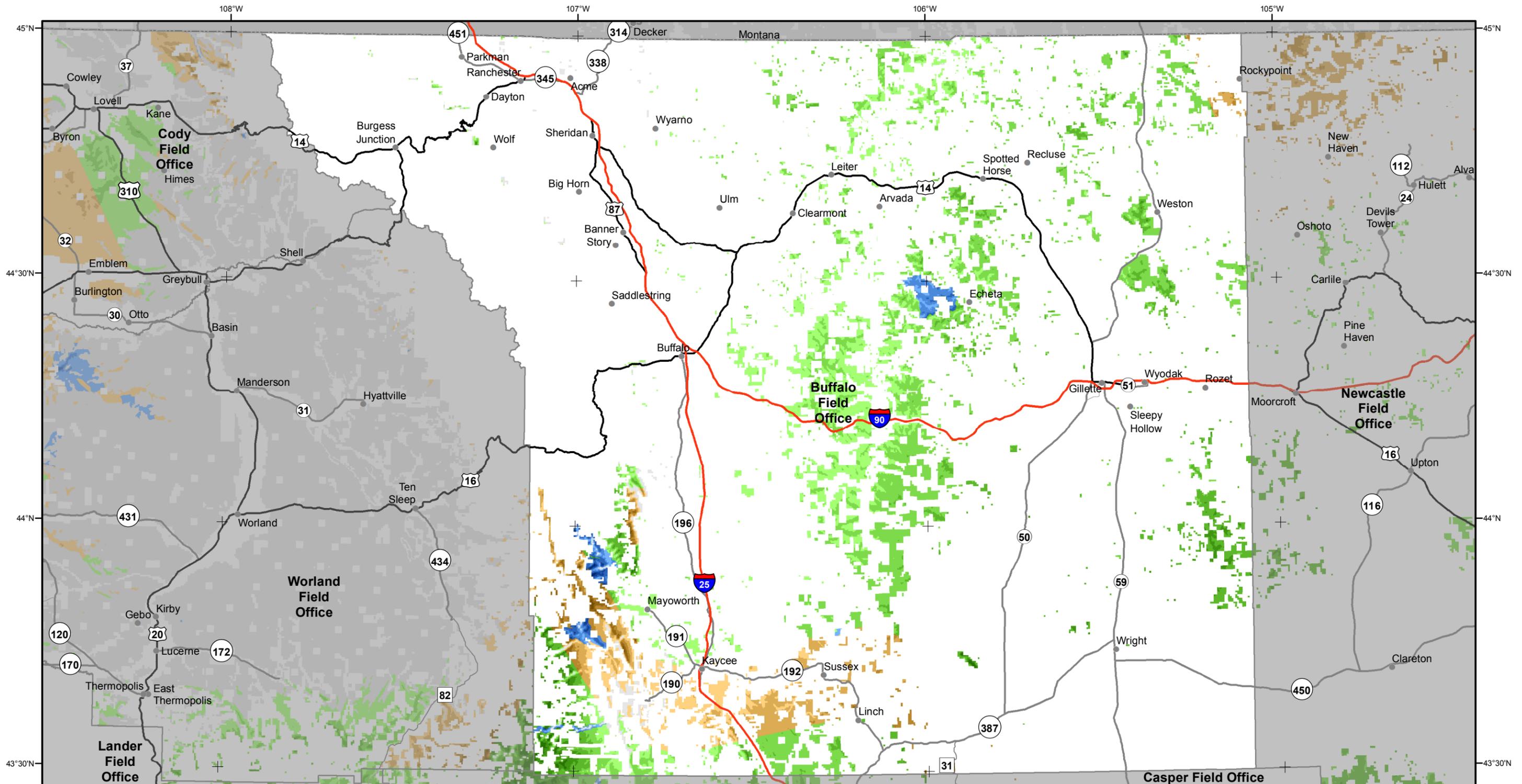
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Ecological Scenario C

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

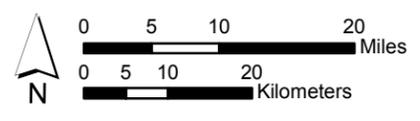
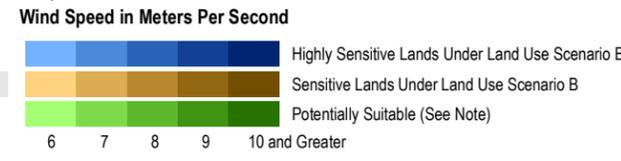
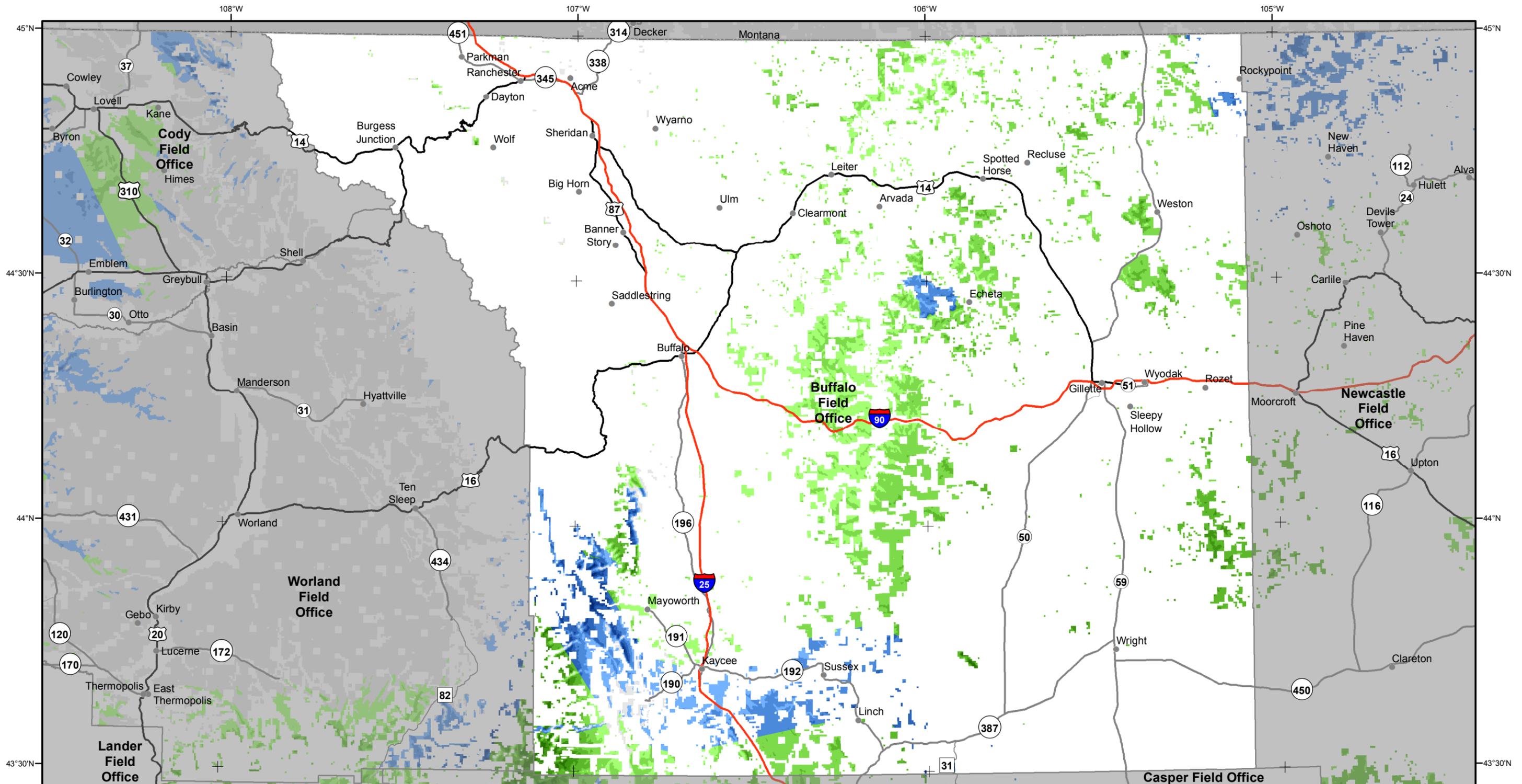
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Land Use Scenario A

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

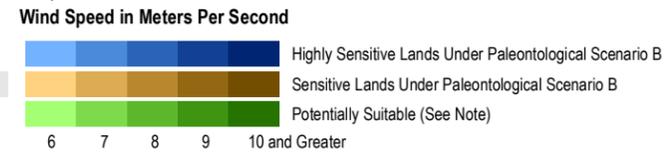
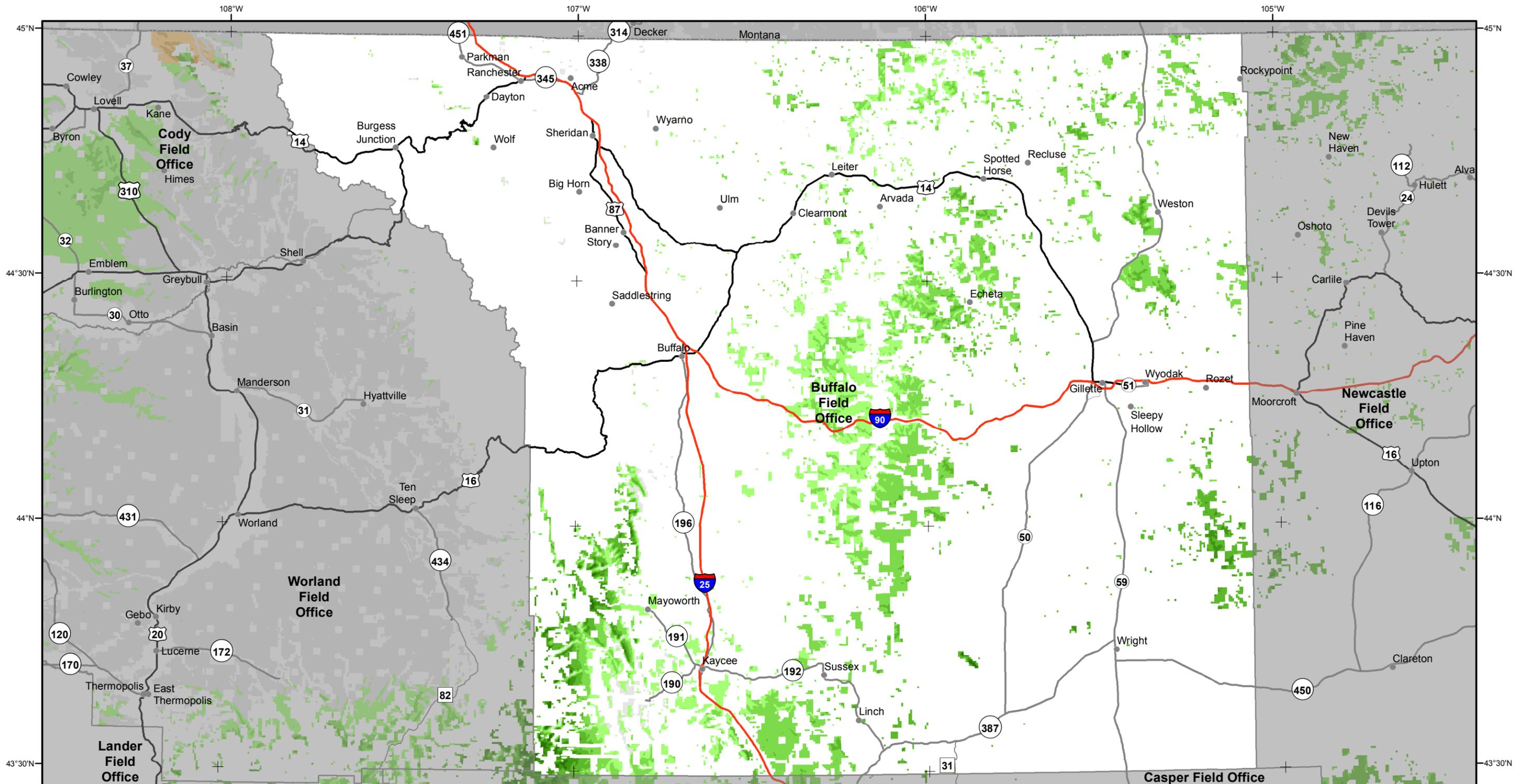
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Land Use Scenario B

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

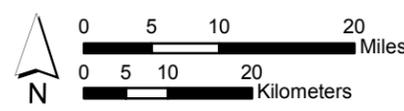
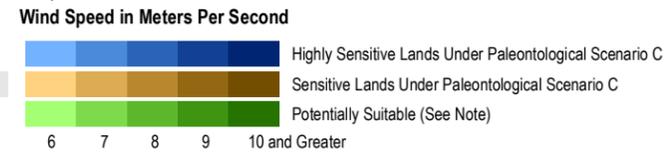
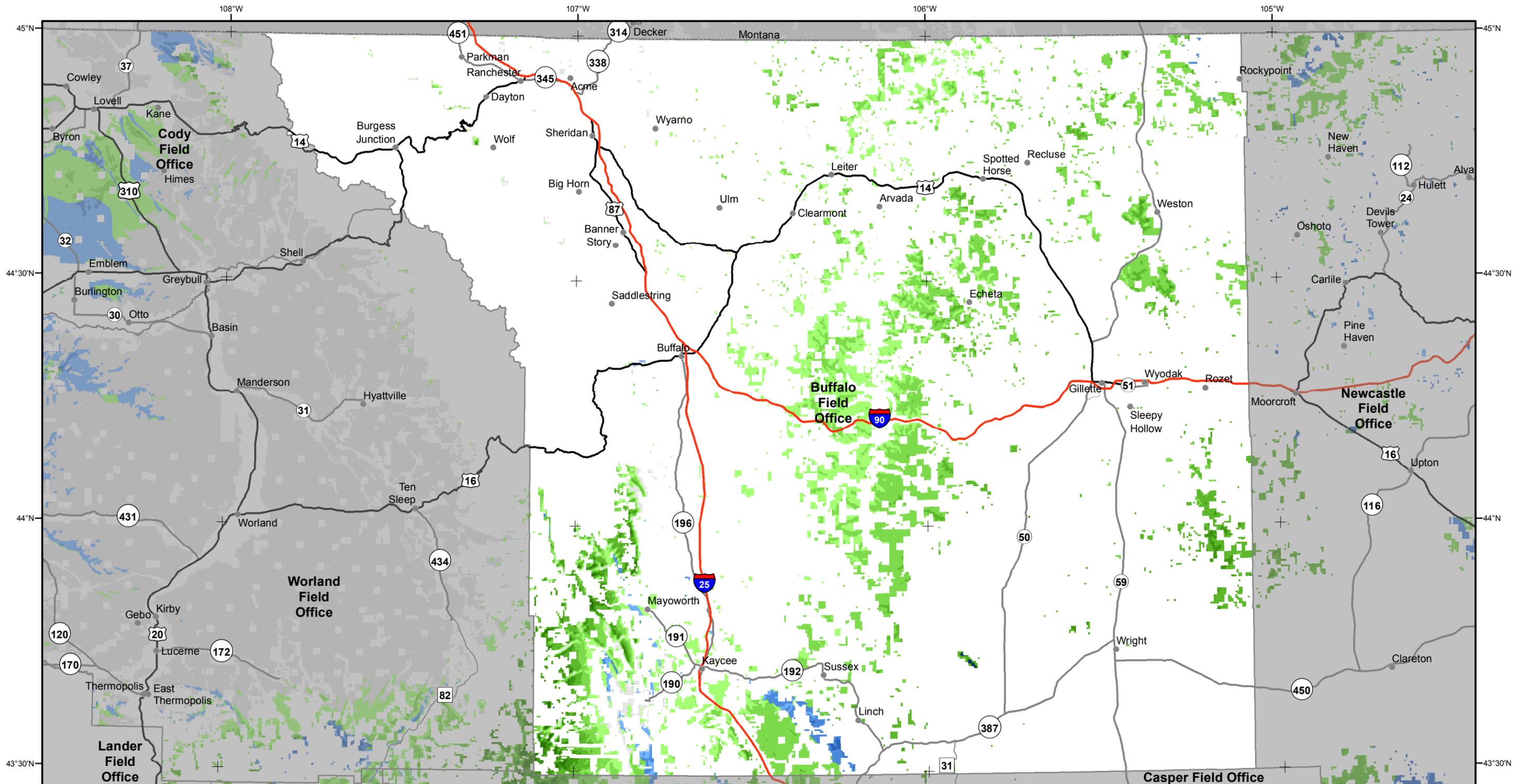
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Paleontological Scenario B

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

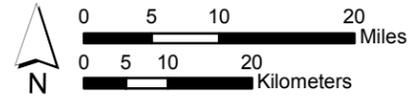
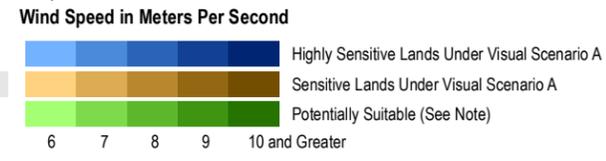
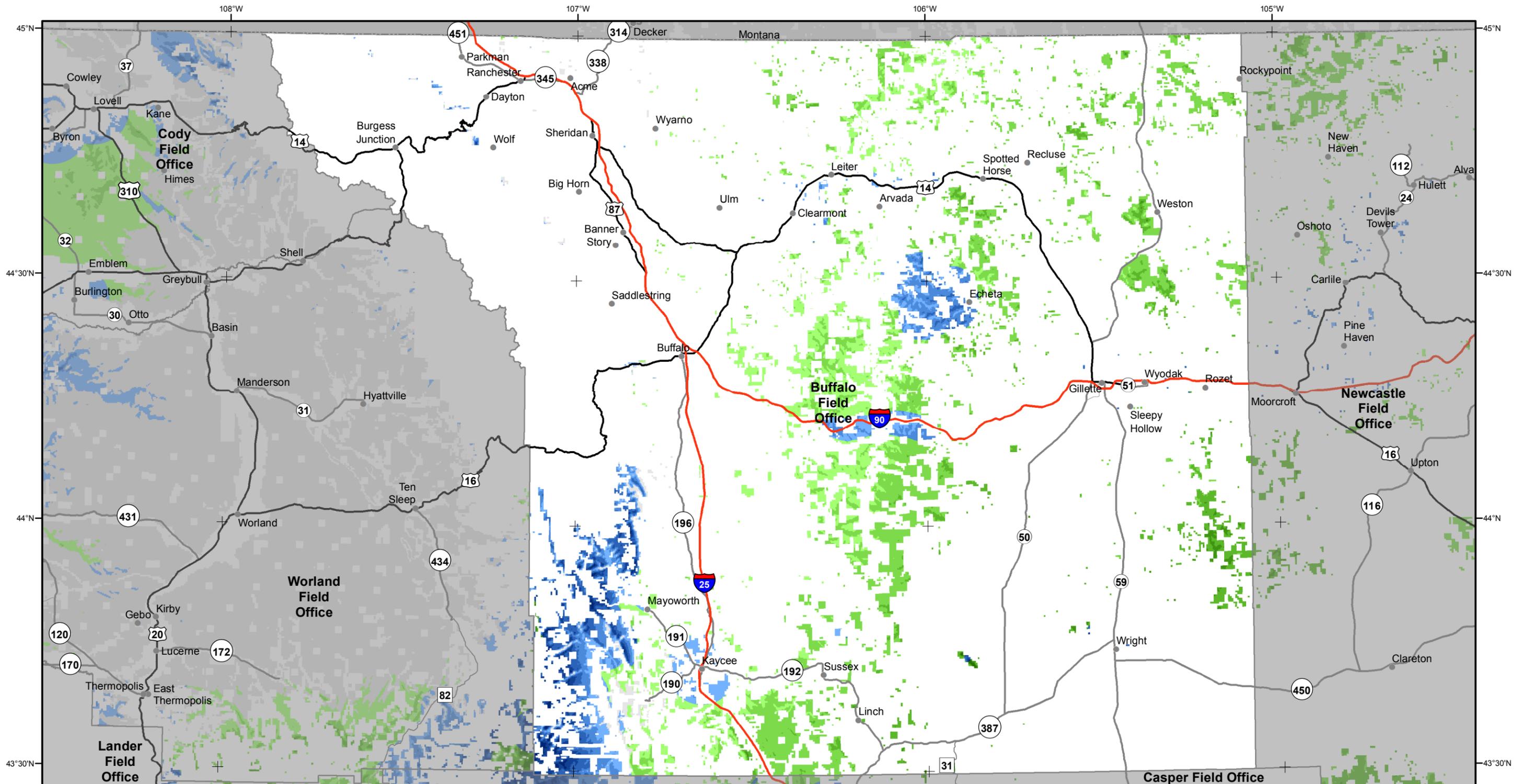
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Paleontological Scenario C

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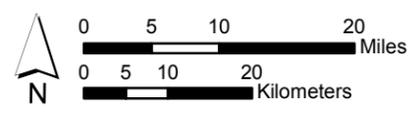
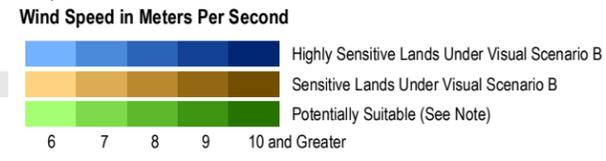
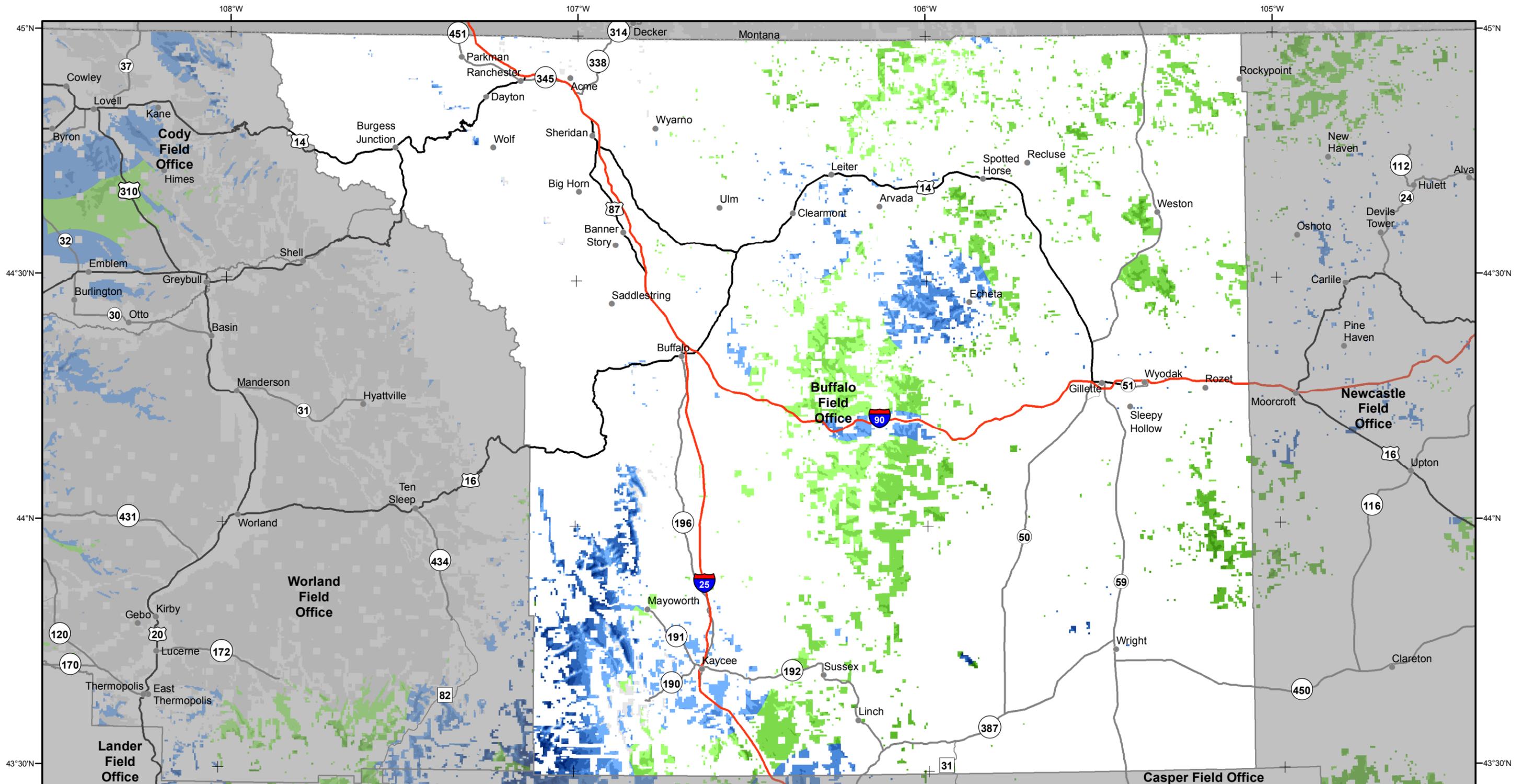
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Visual Scenario A

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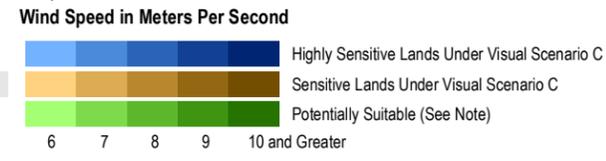
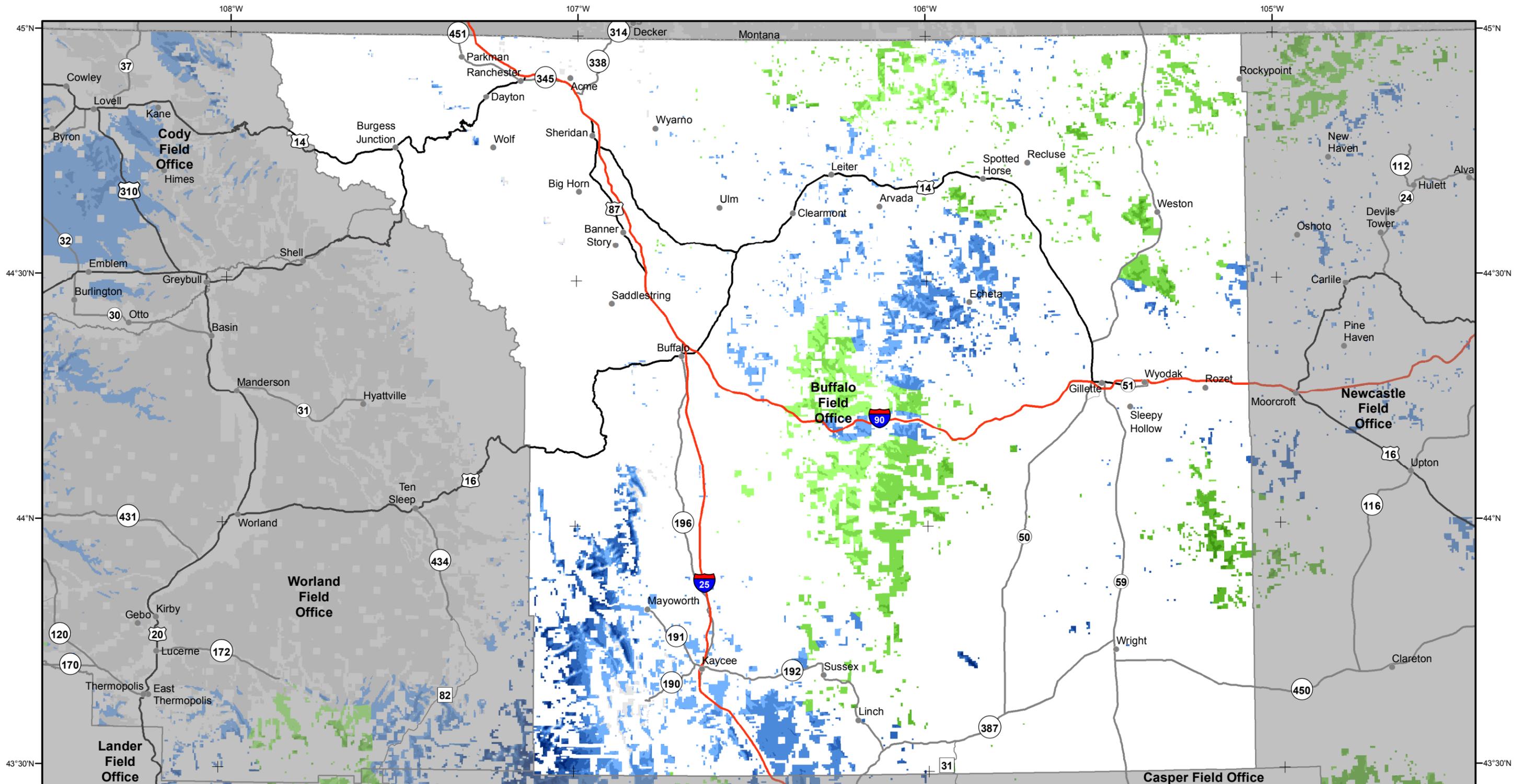
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Visual Scenario B

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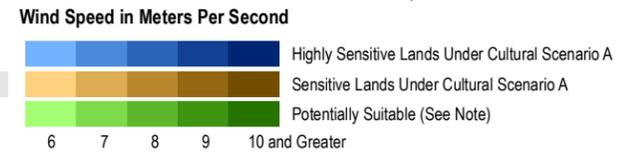
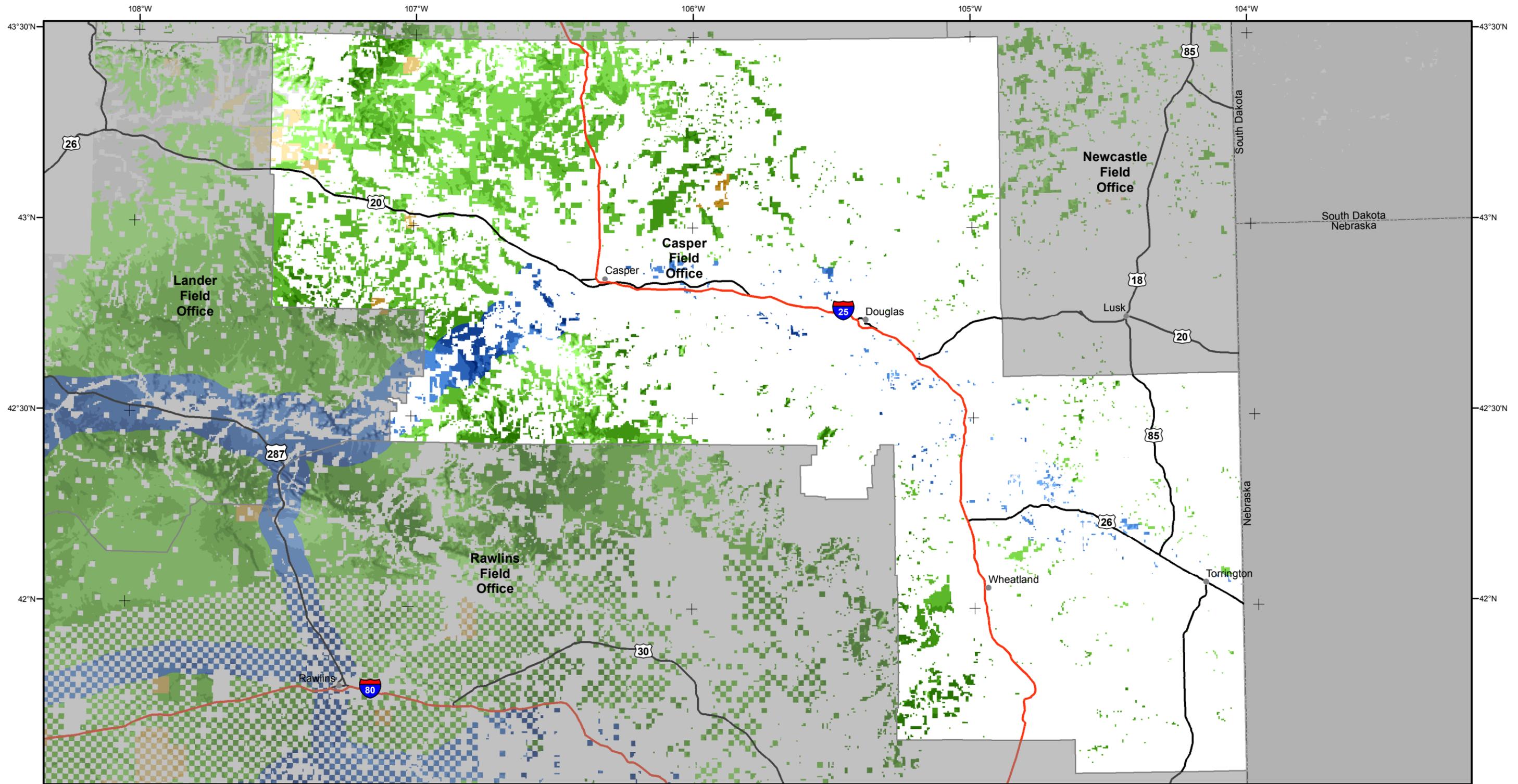
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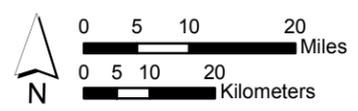
Visual Scenario C

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

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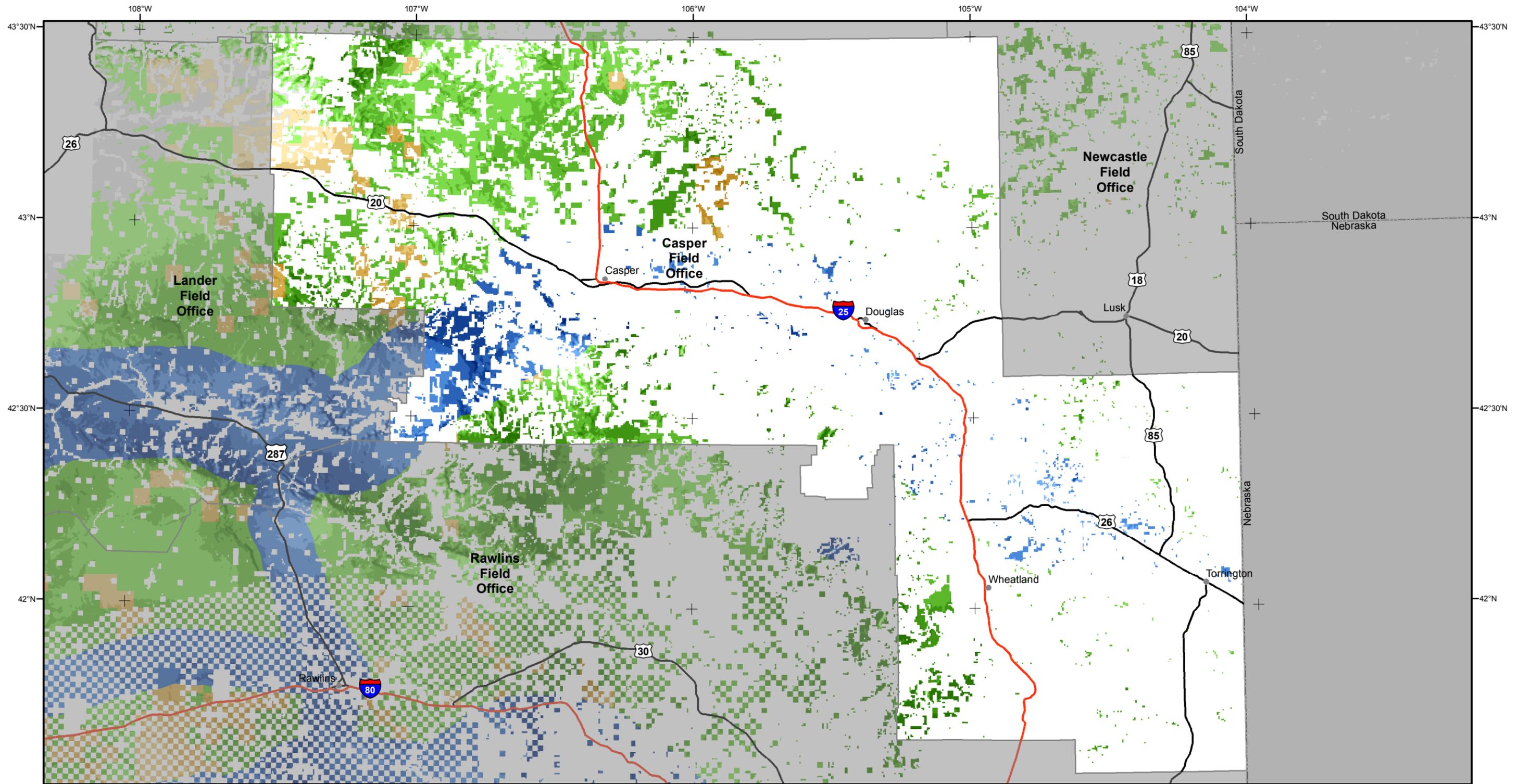
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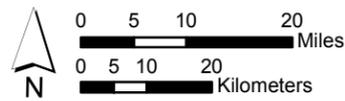
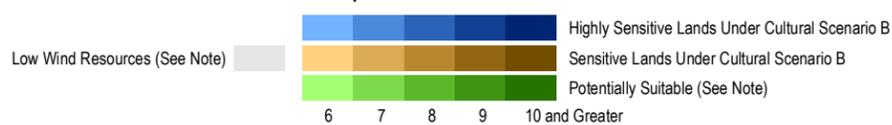
Cultural Scenario A

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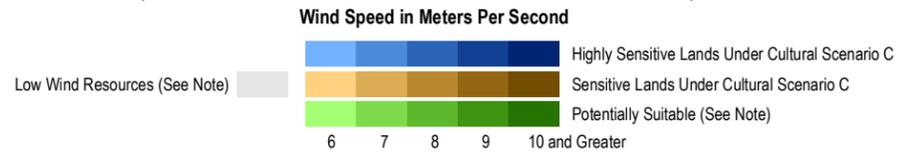
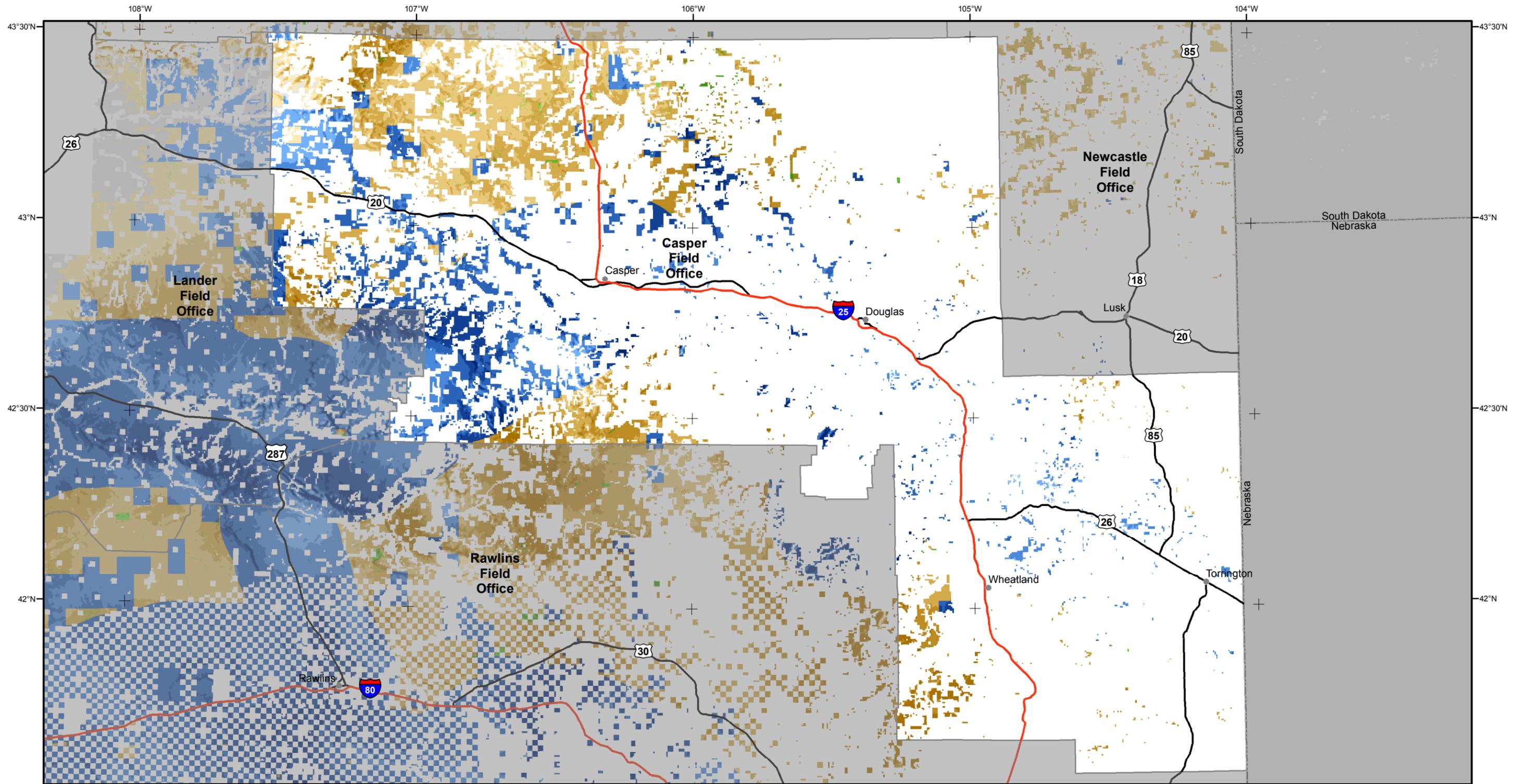
Wind Speed in Meters Per Second



Cultural Scenario B

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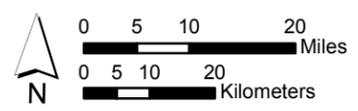
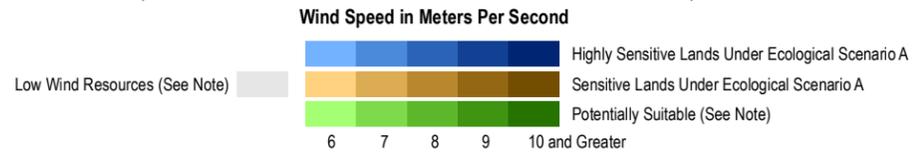
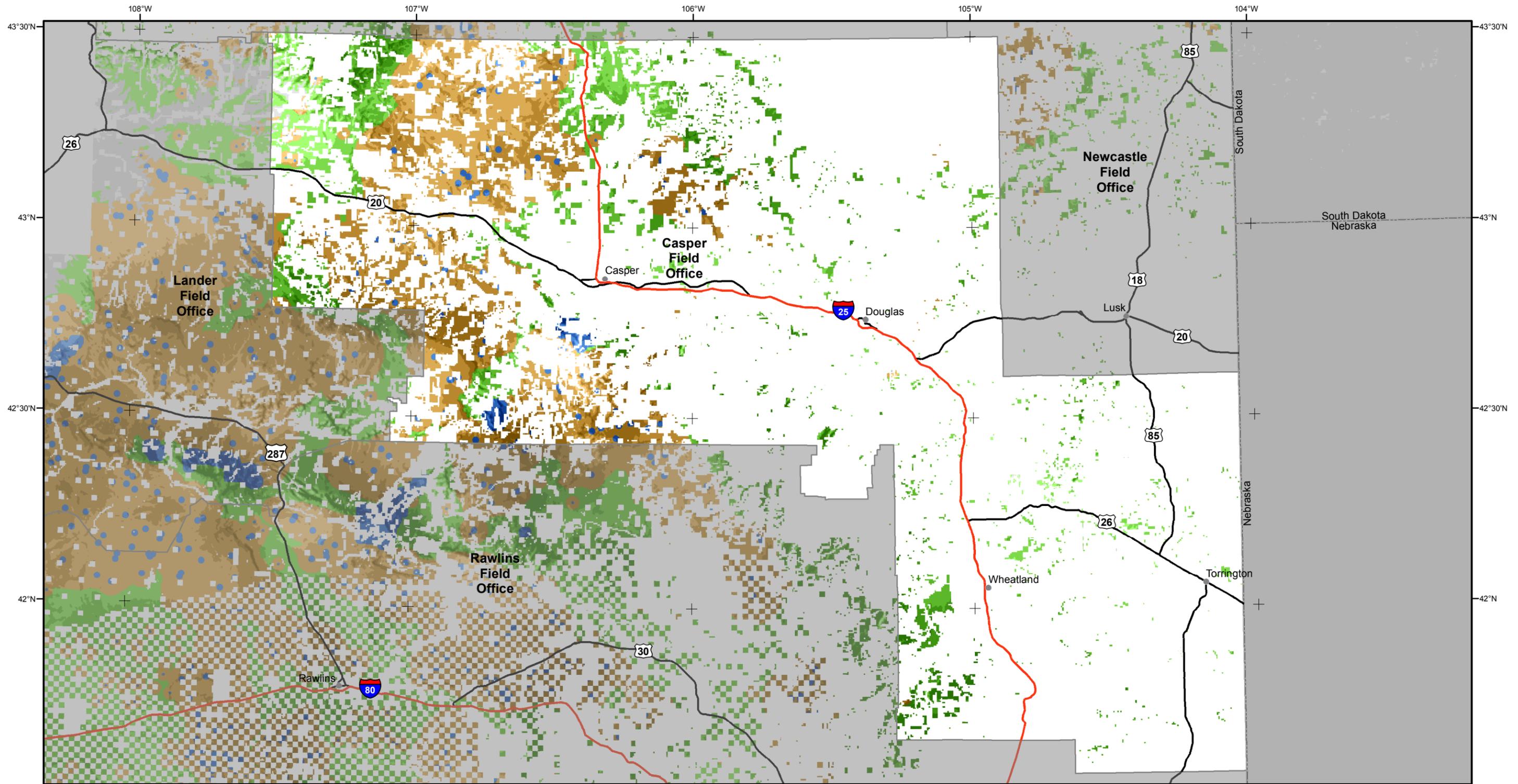
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Cultural Scenario C

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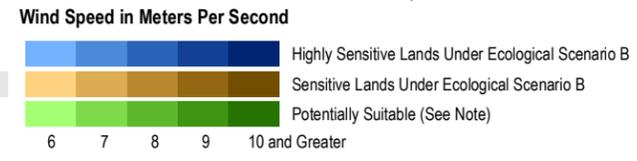
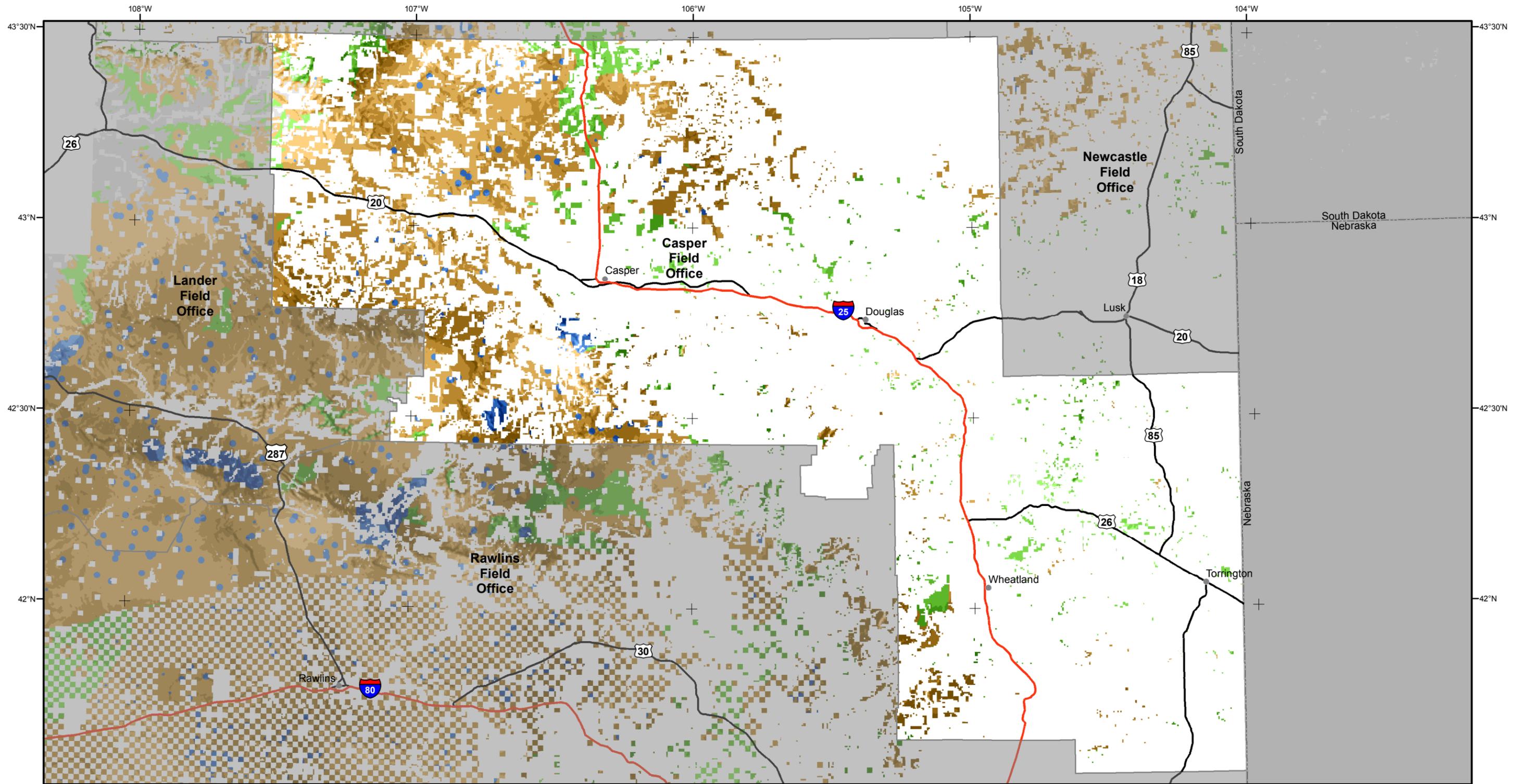
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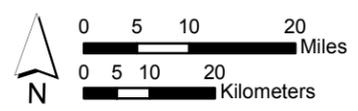
Ecological Scenario A

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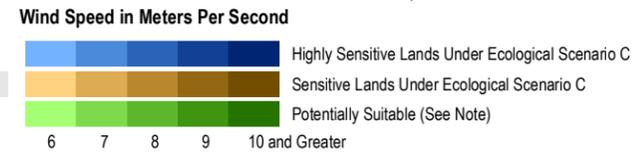
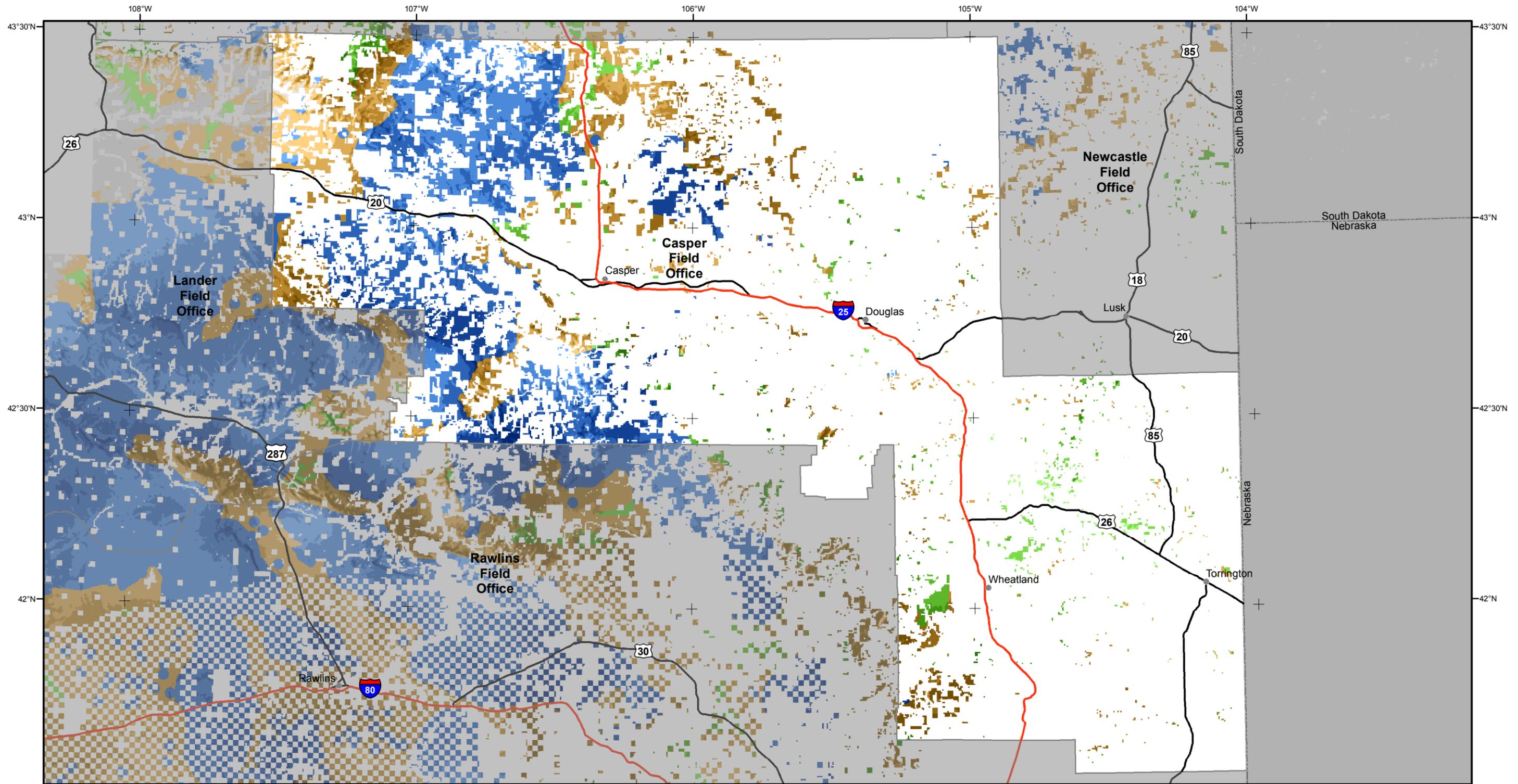
Low Wind Resources (See Note)



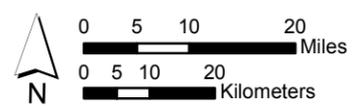
Ecological Scenario B

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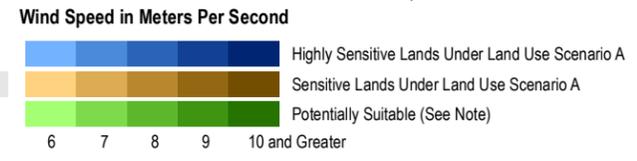
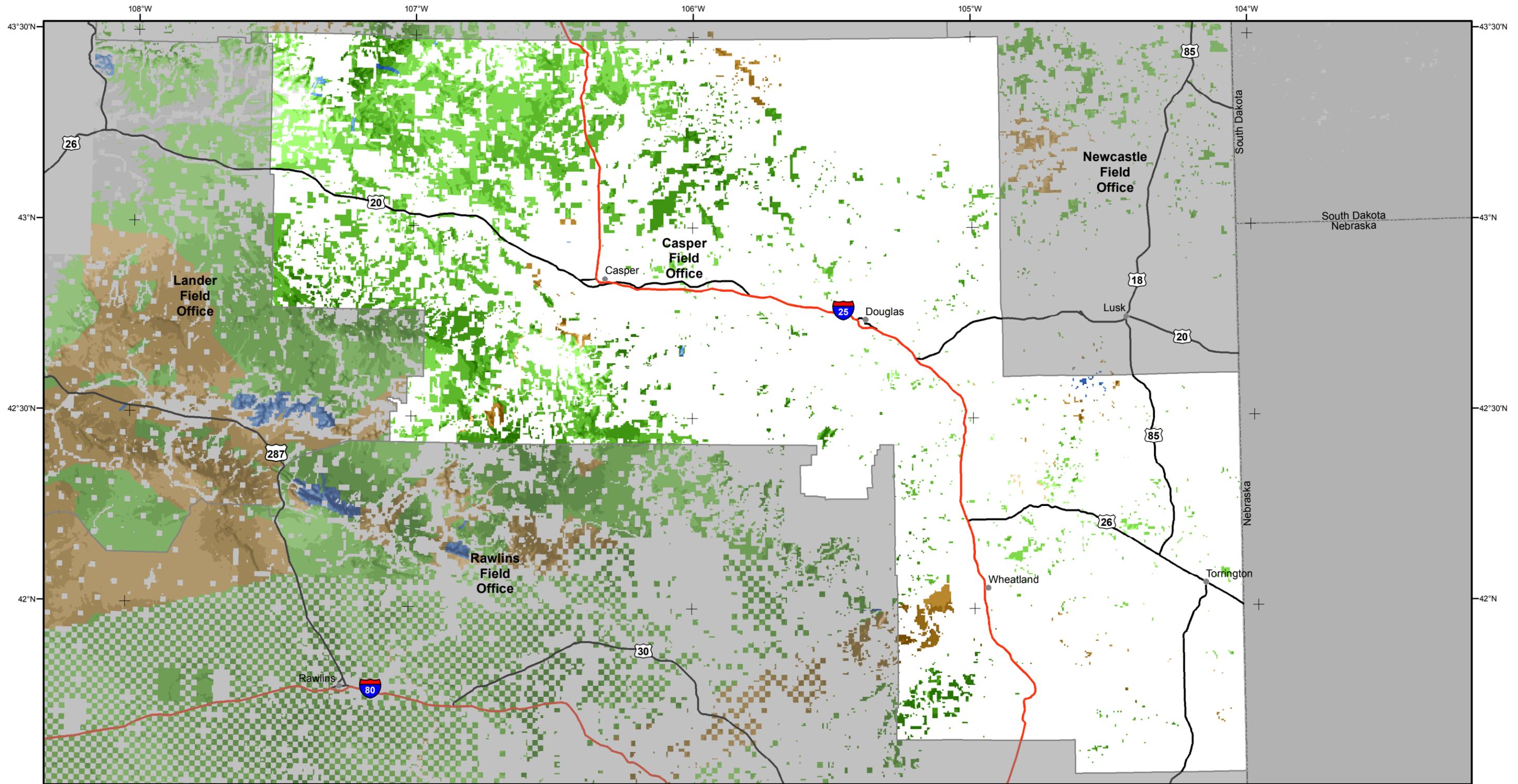
Low Wind Resources (See Note)



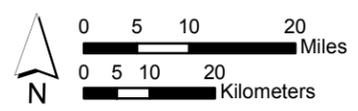
Ecological Scenario C

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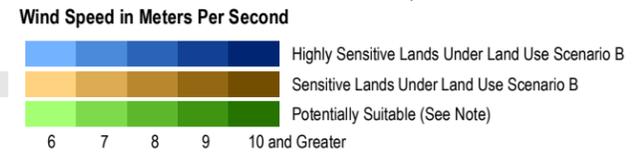
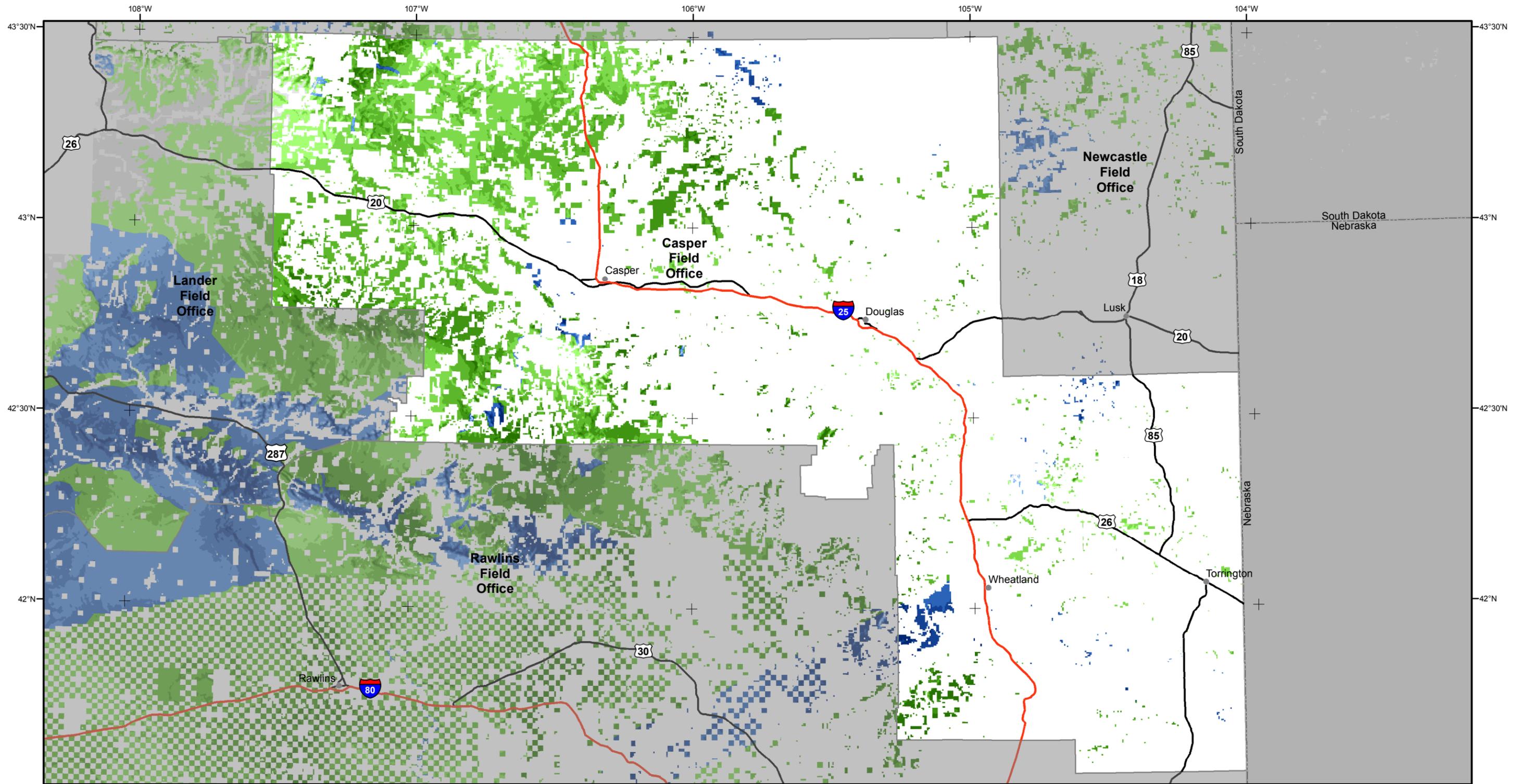
Low Wind Resources (See Note)



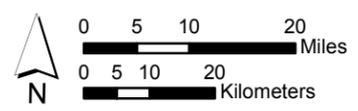
Land Use Scenario A

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

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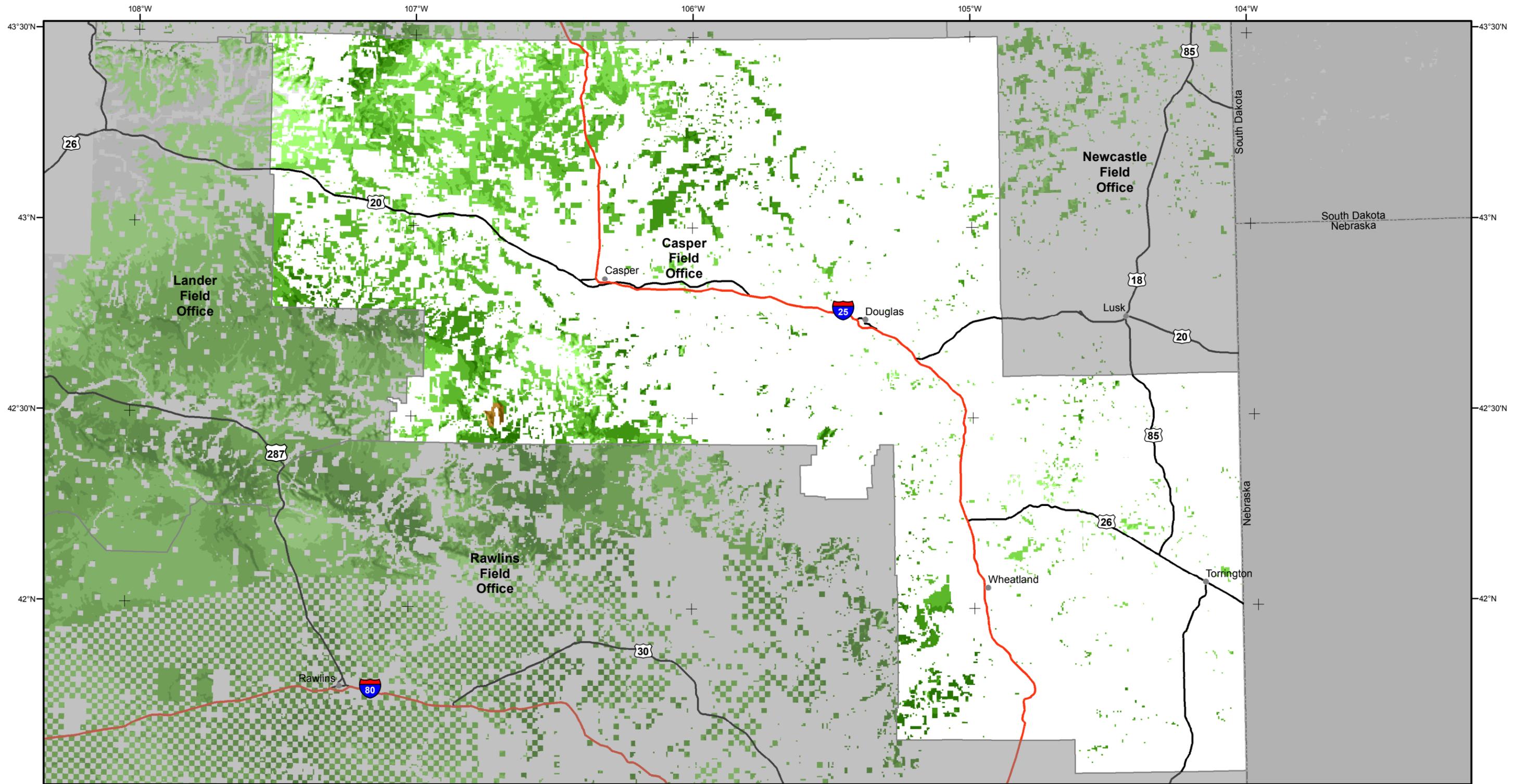
Low Wind Resources (See Note)



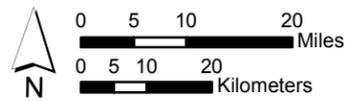
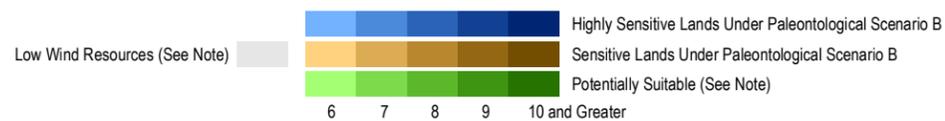
Land Use Scenario B

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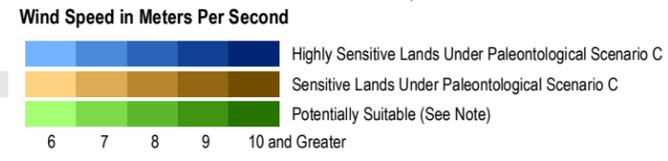
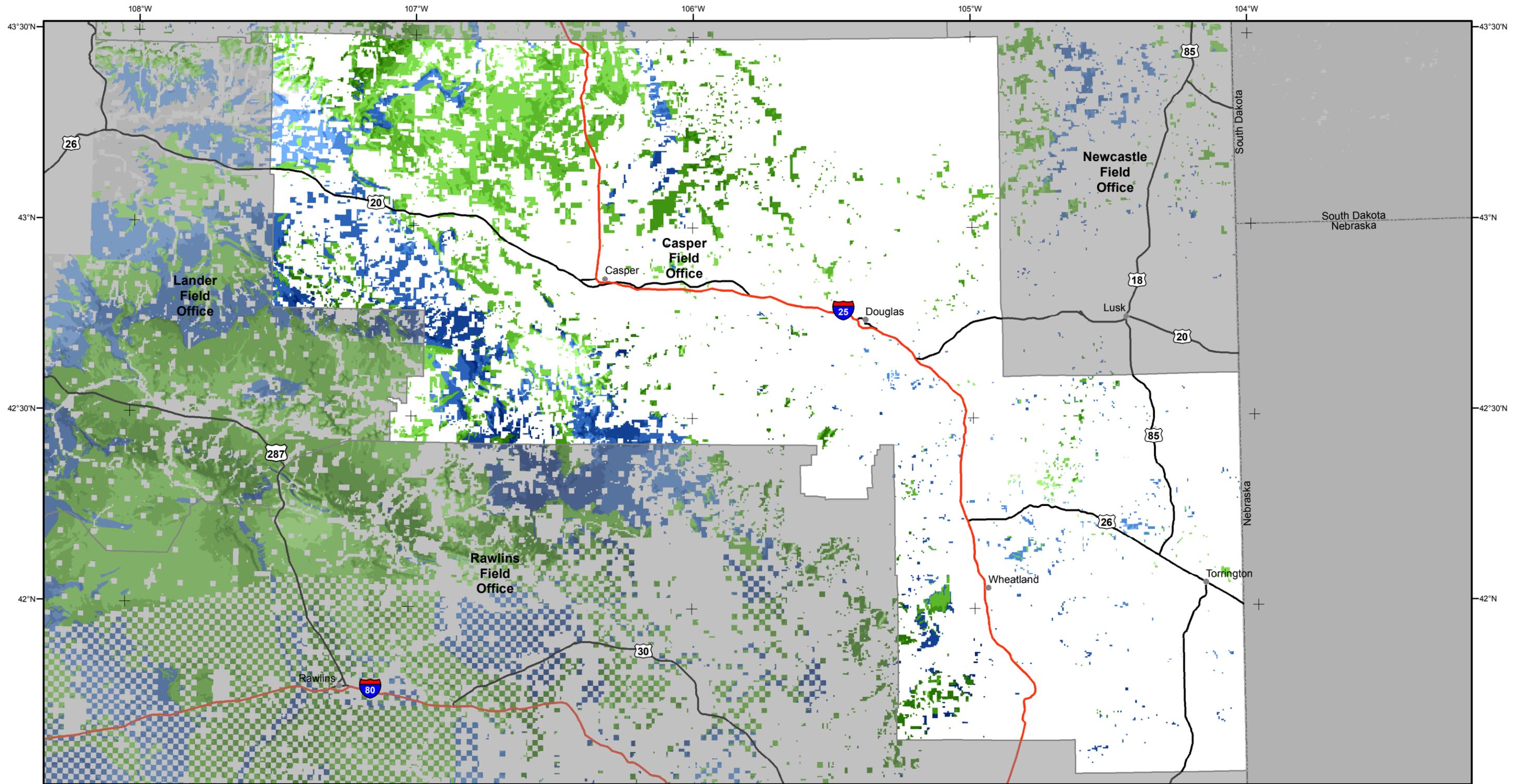
Wind Speed in Meters Per Second



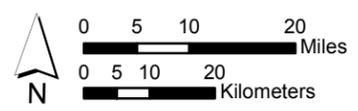
Paleontological Scenario B

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

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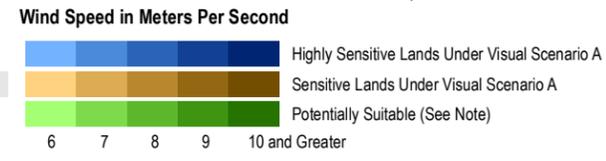
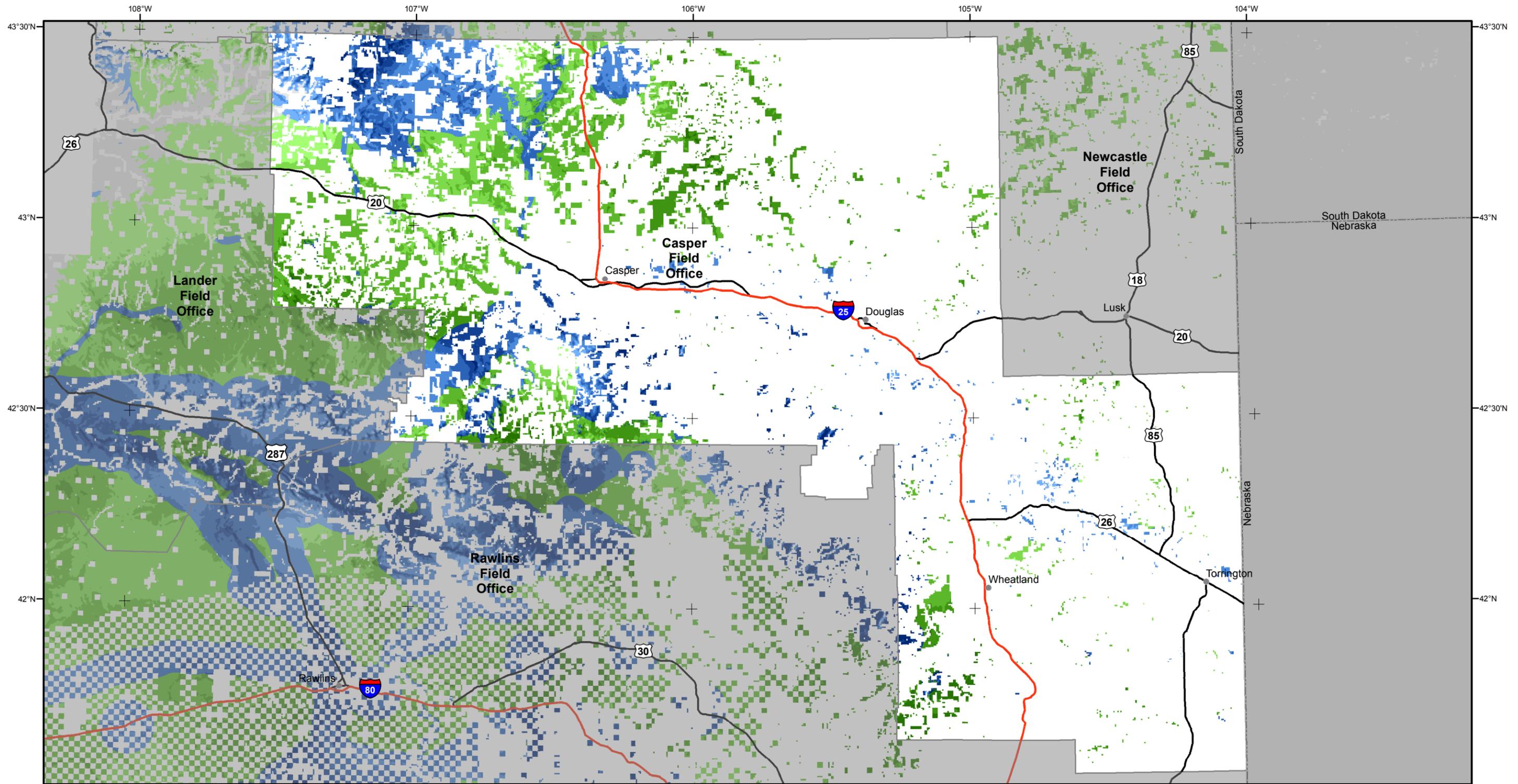
Low Wind Resources (See Note)



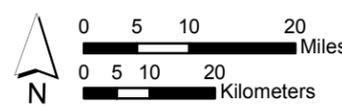
Paleontological Scenario C

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

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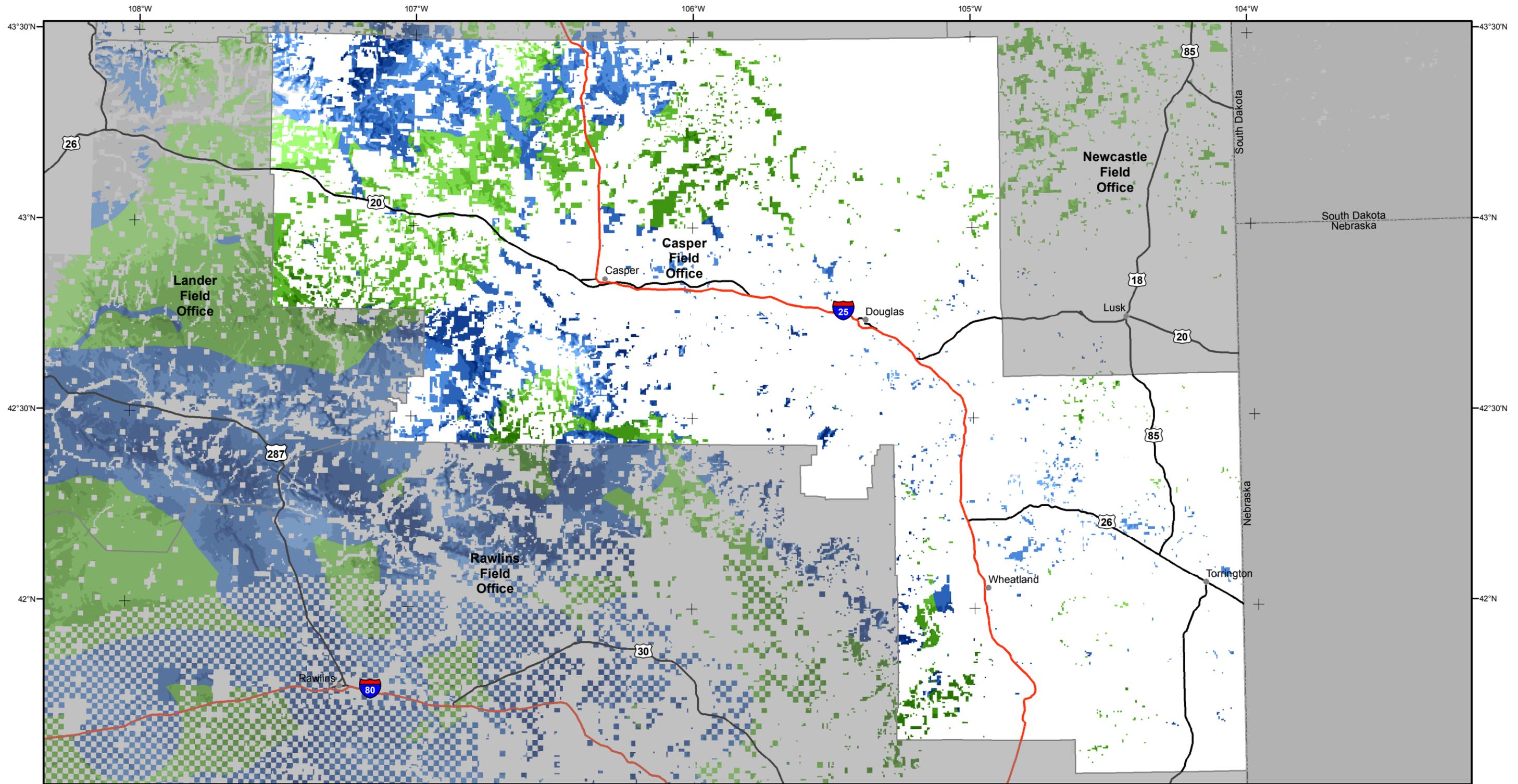
Low Wind Resources (See Note)



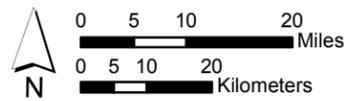
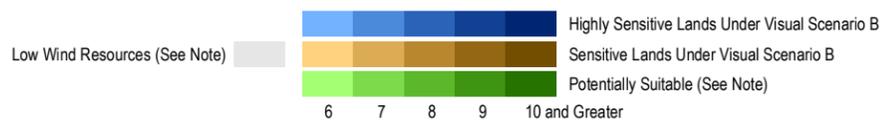
Visual Scenario A

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

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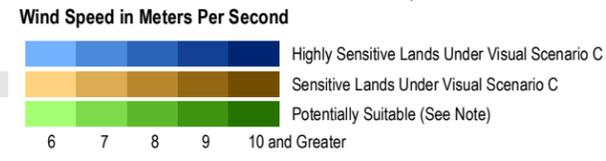
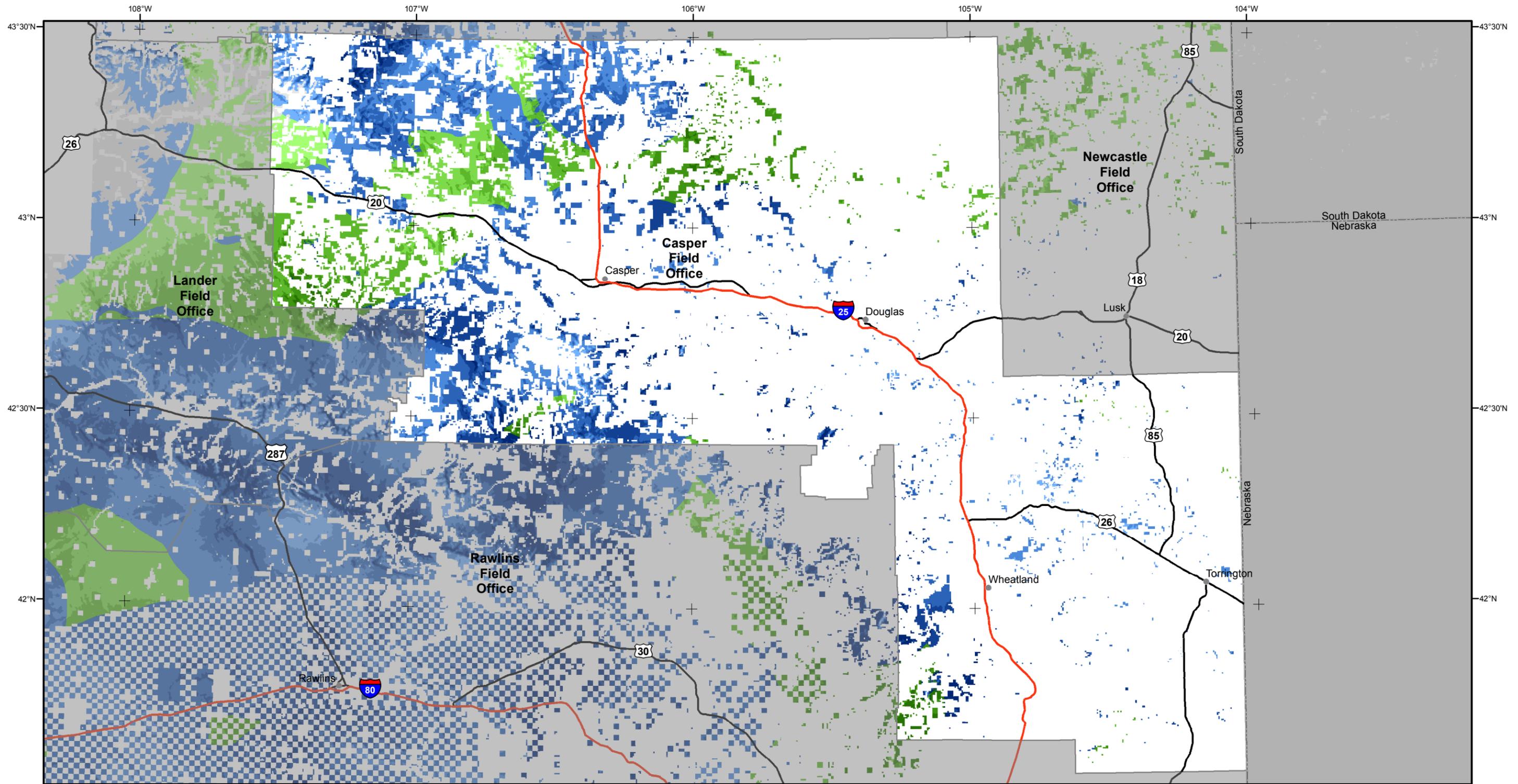
Wind Speed in Meters Per Second



Visual Scenario B

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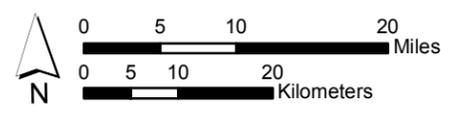
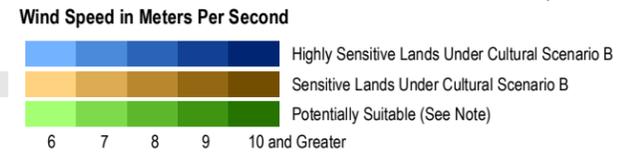
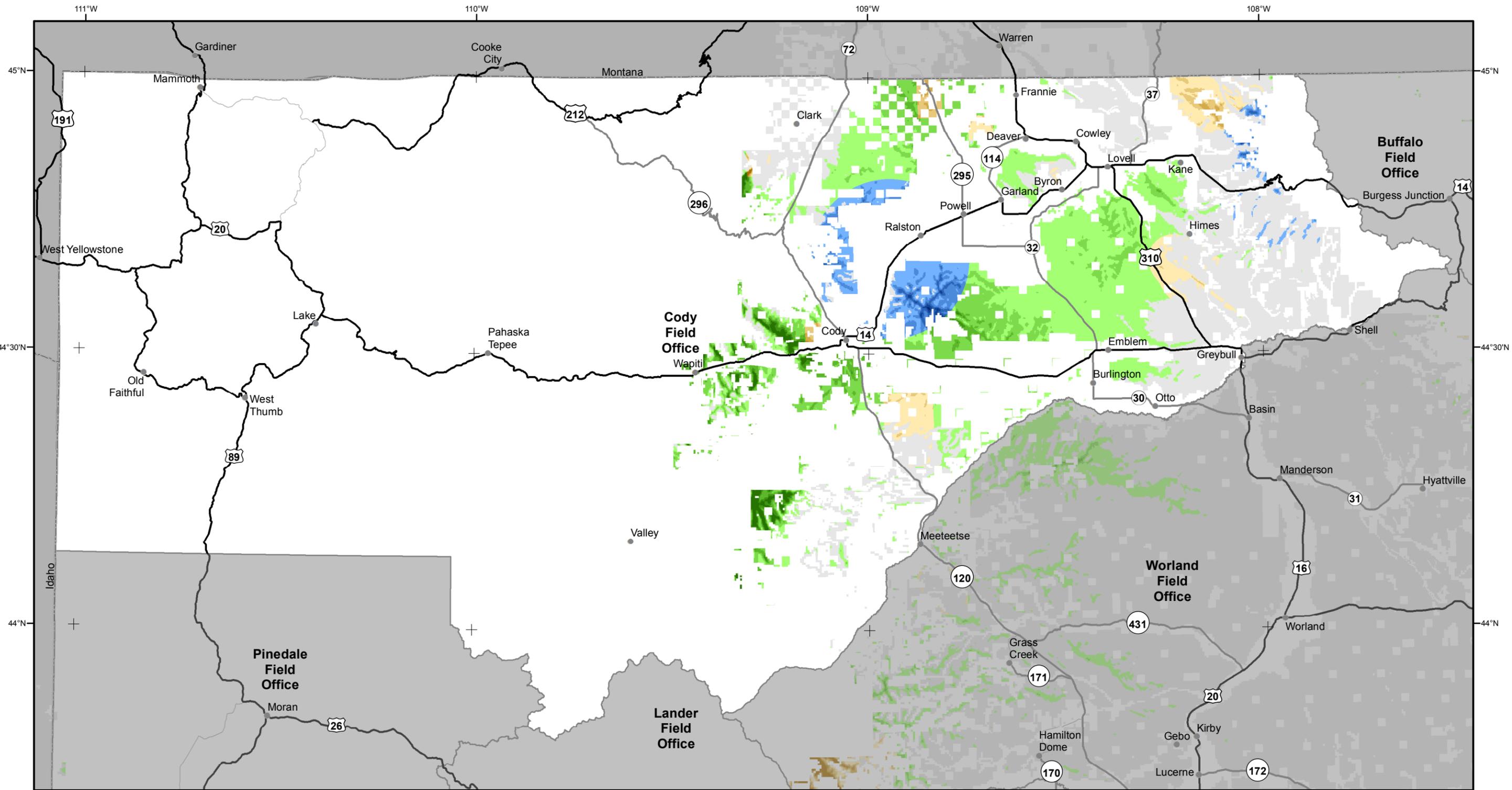
Low Wind Resources (See Note)



Visual Scenario C

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

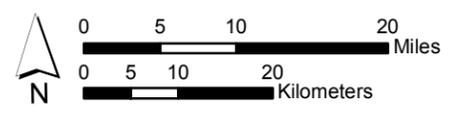
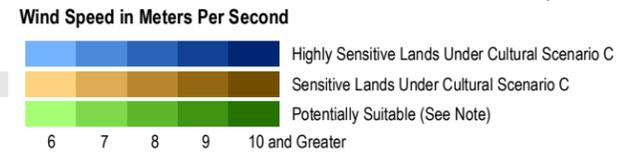
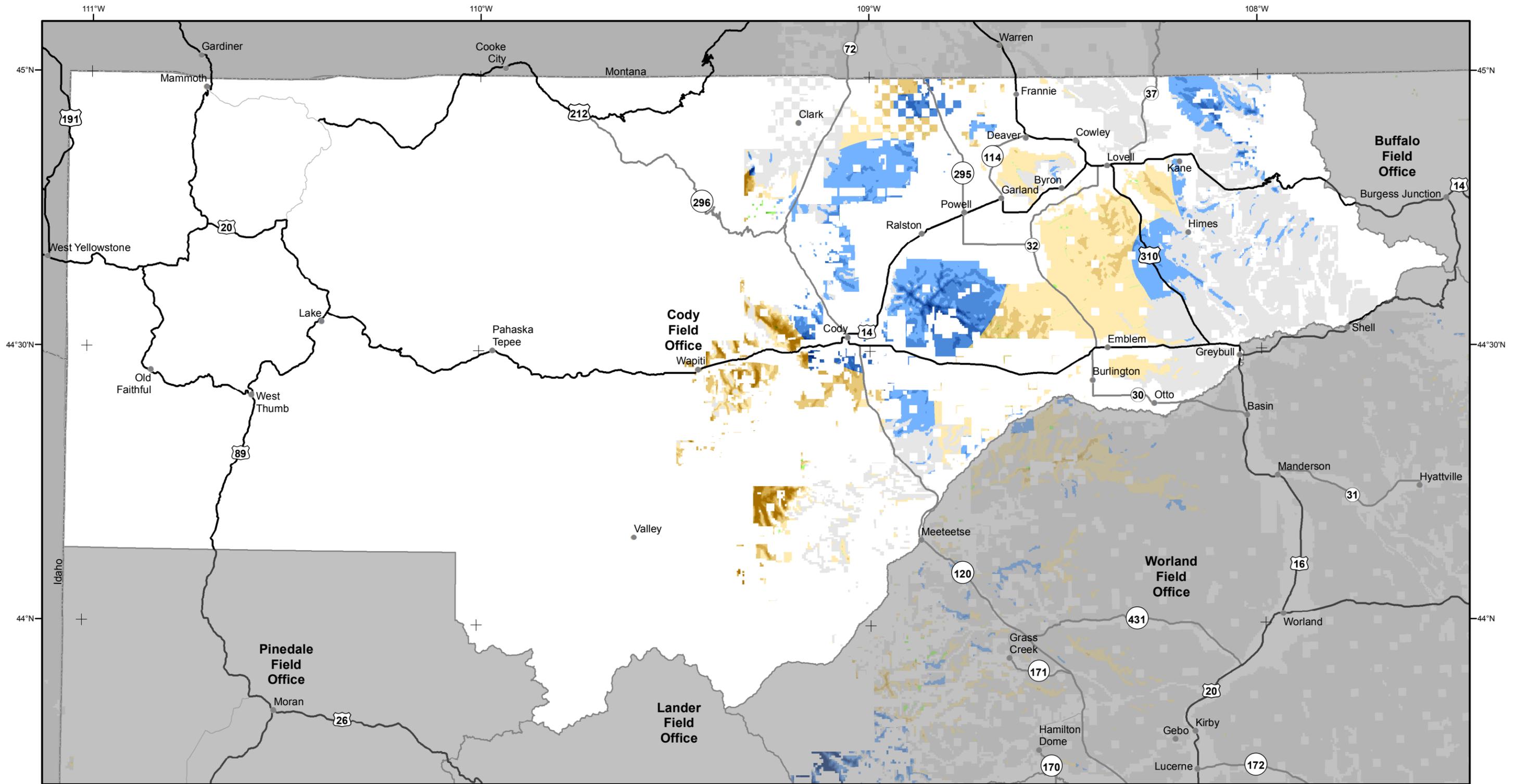
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Cultural Scenario B

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

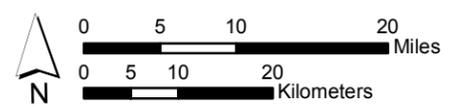
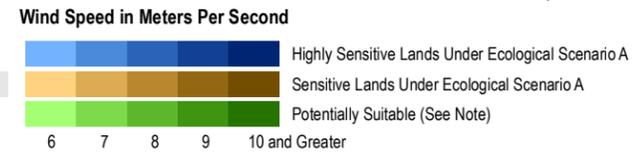
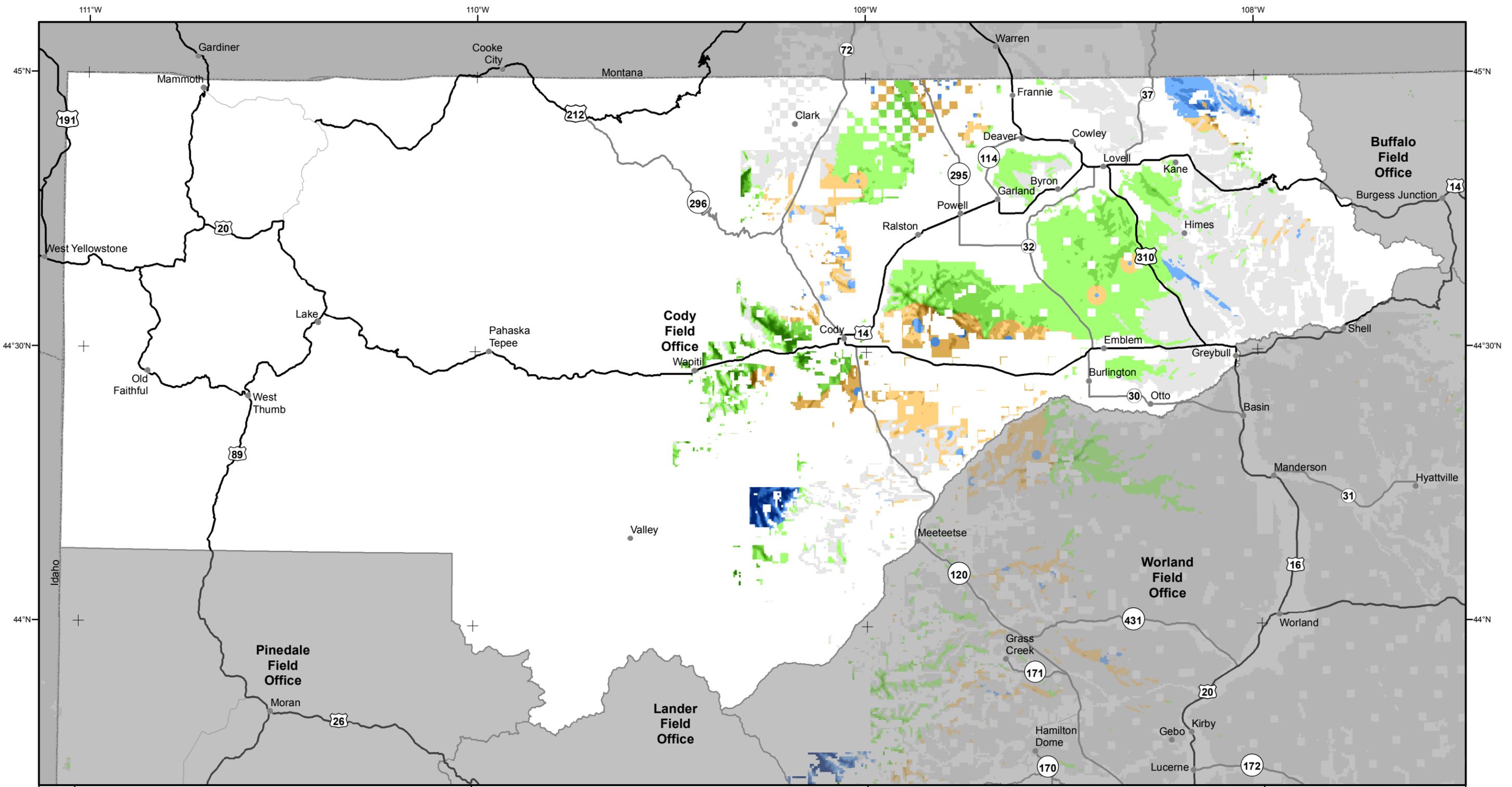
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Cultural Scenario C

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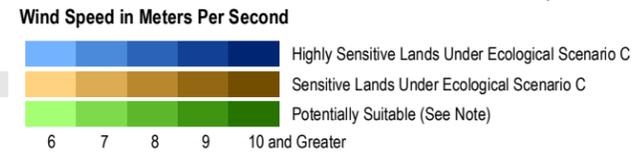
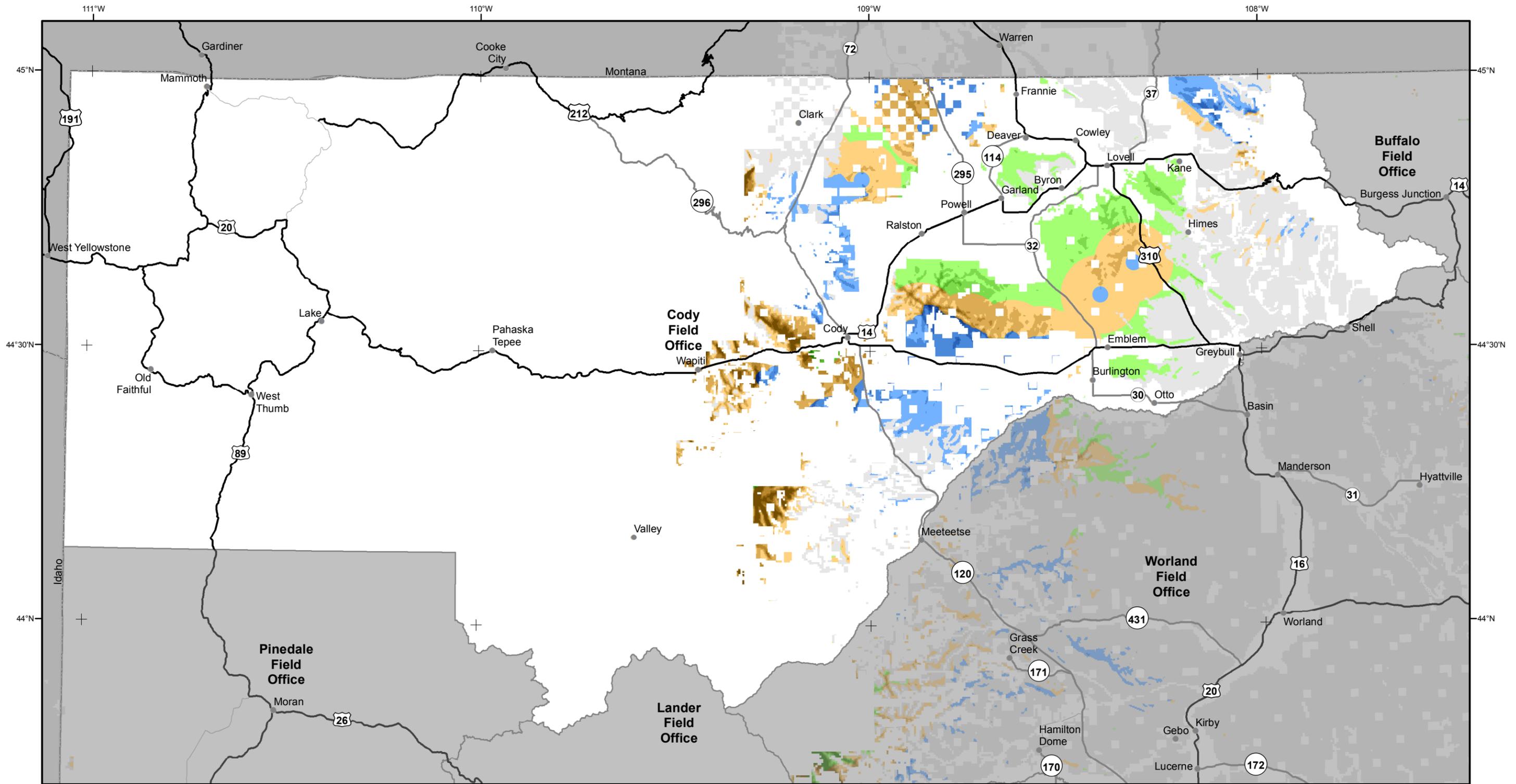
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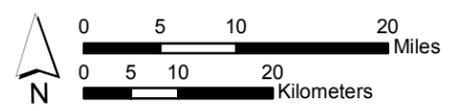
Ecological Scenario A

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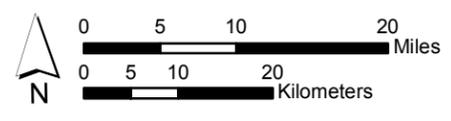
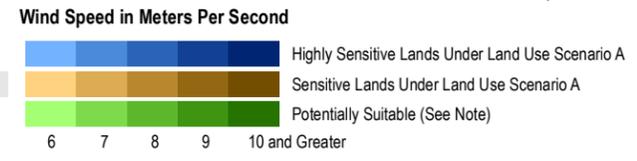
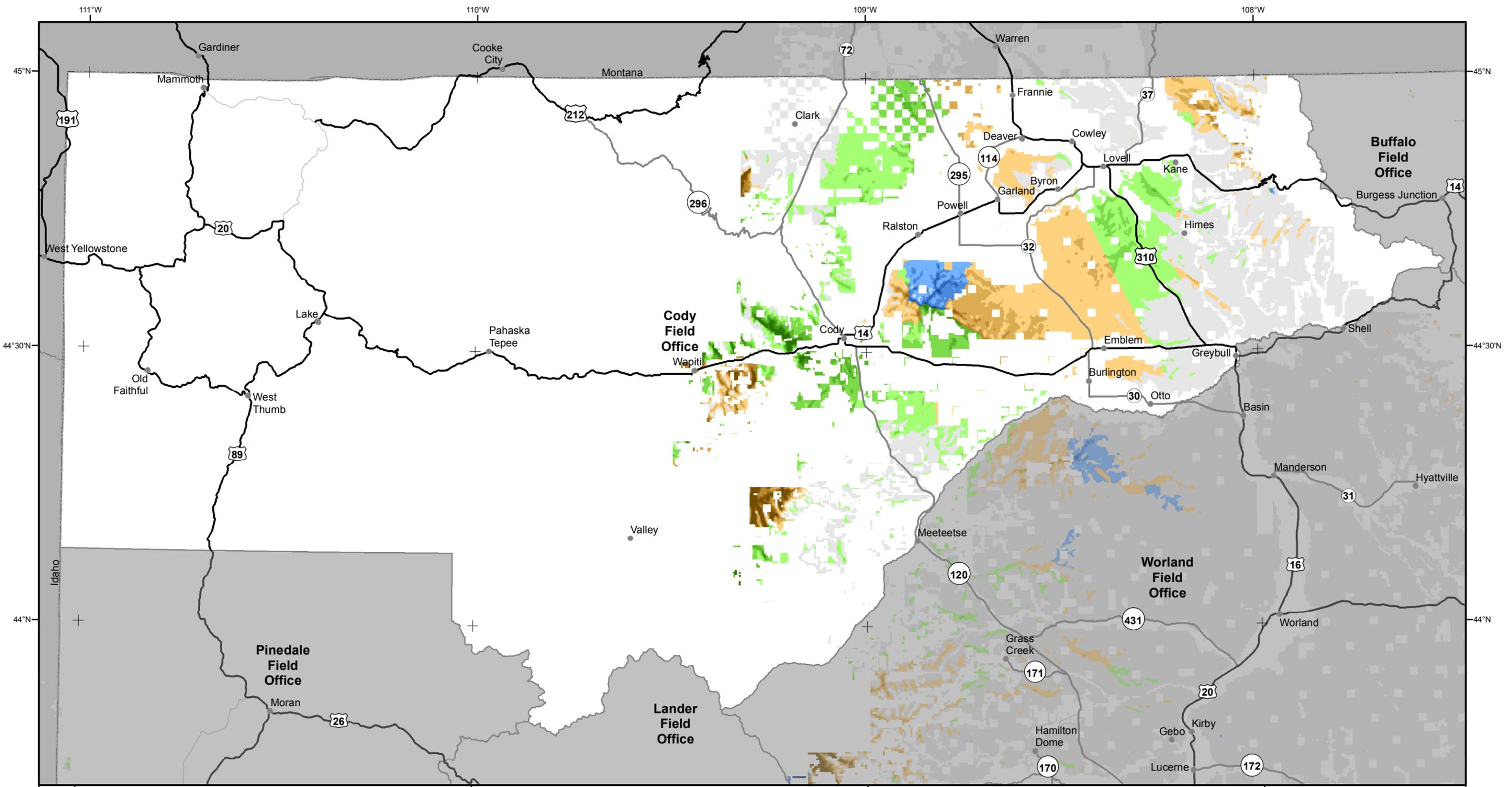
Low Wind Resources (See Note)



Ecological Scenario C

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

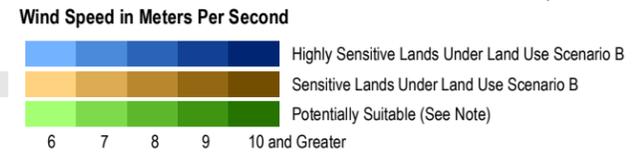
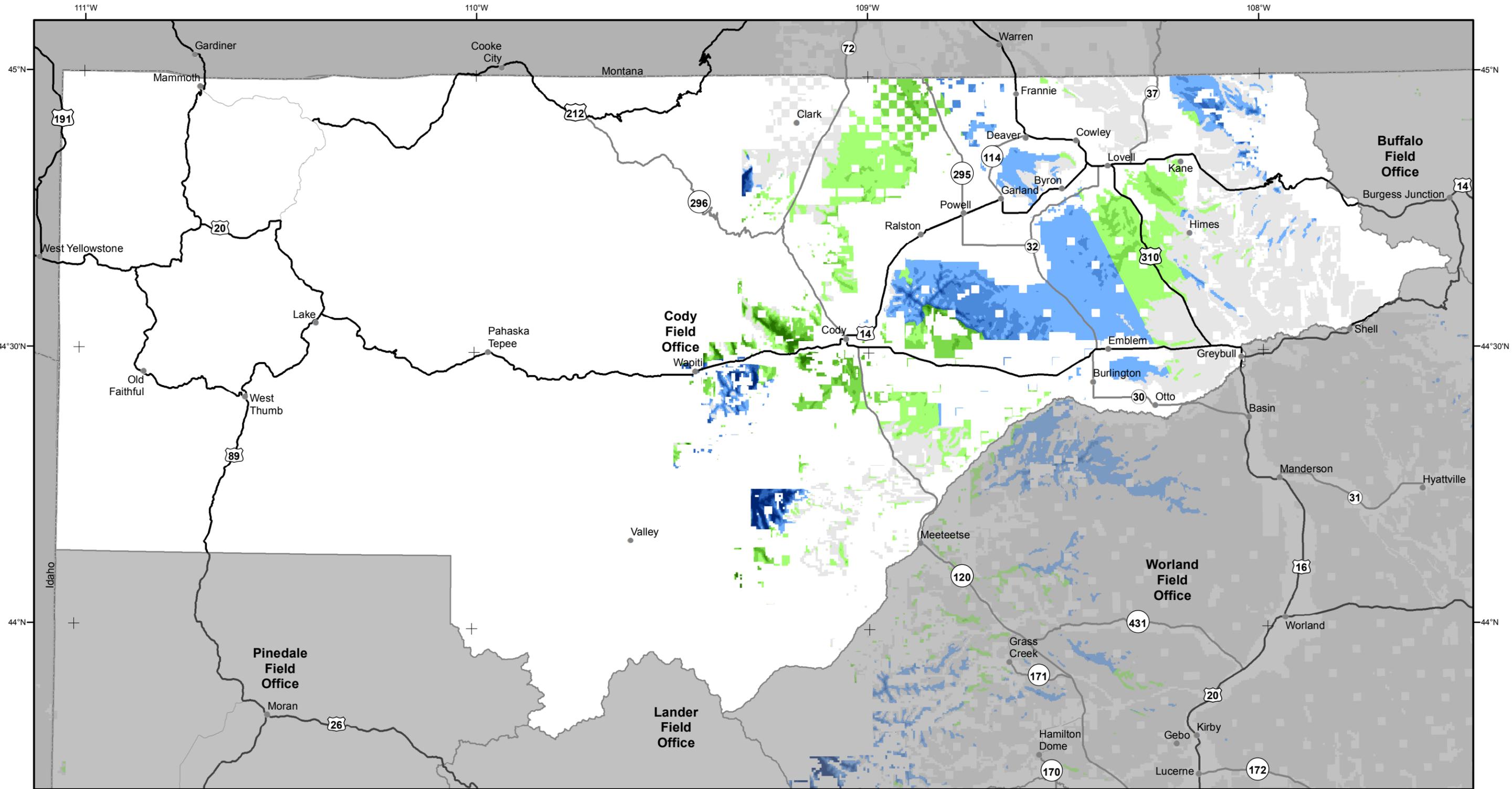
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Land Use Scenario A

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

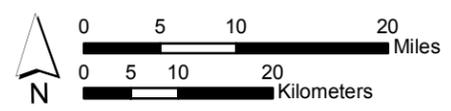
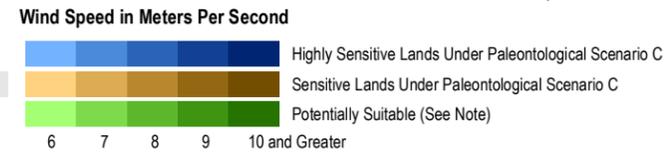
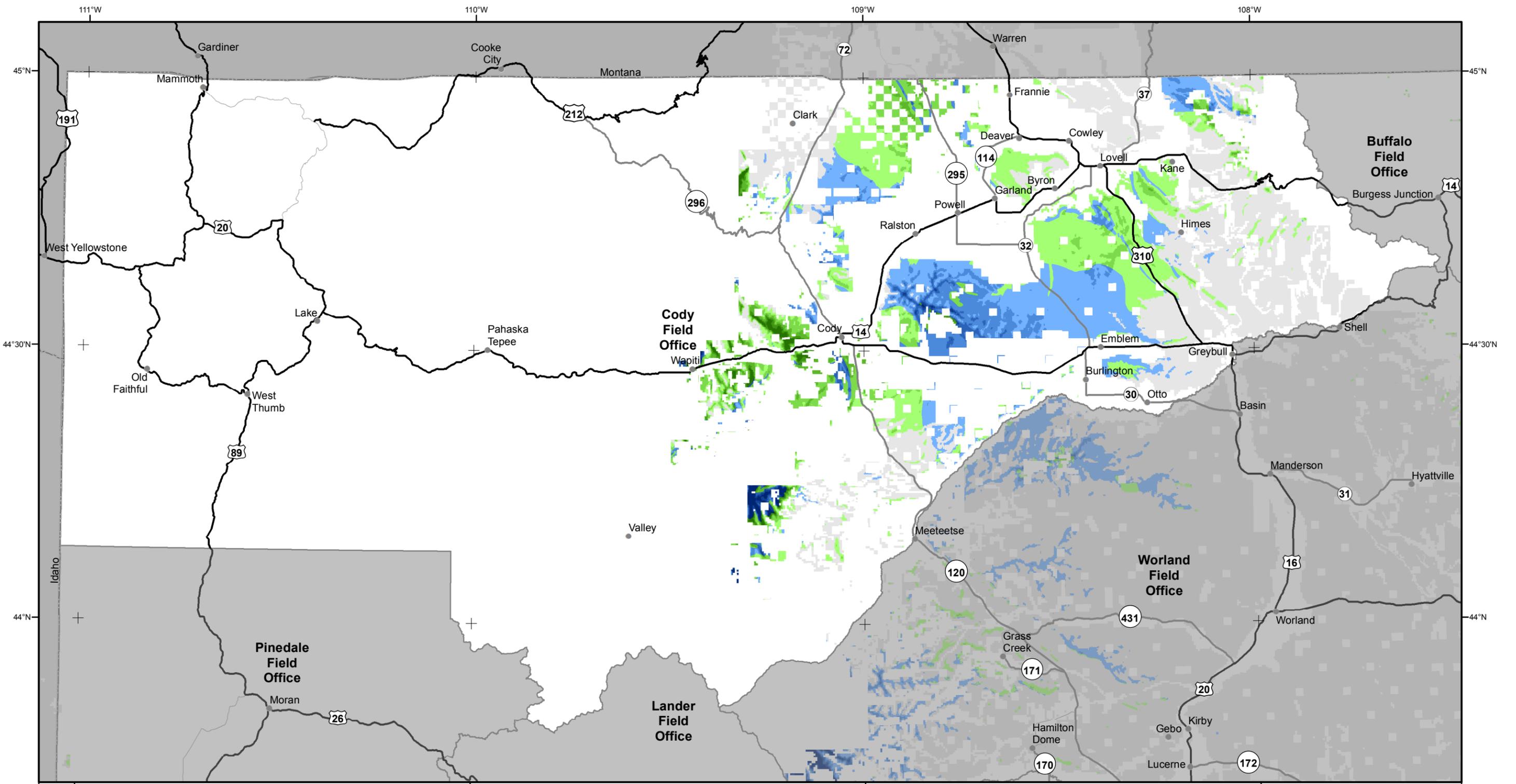
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Land Use Scenario B

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

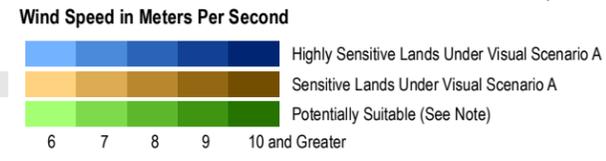
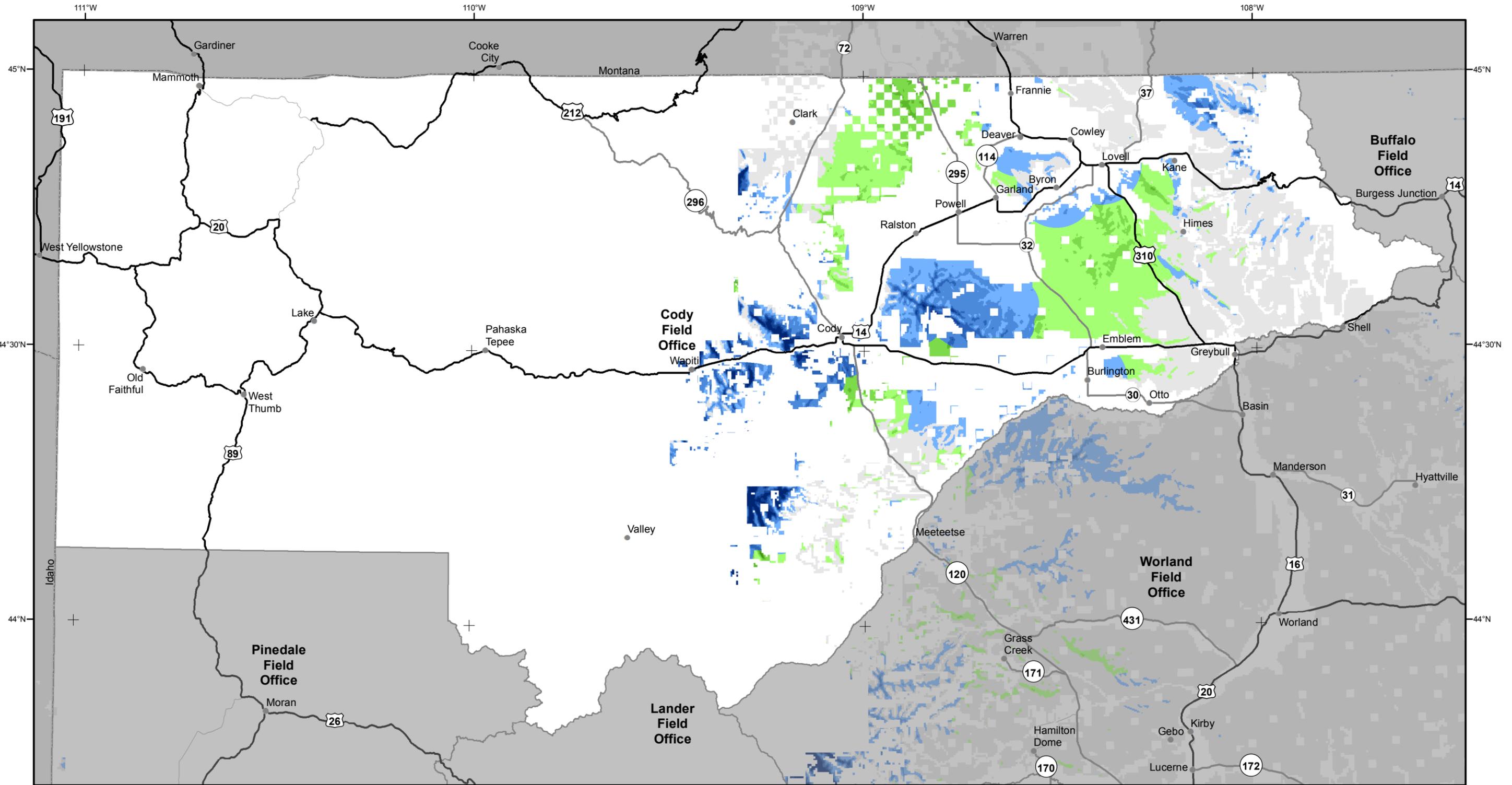
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Paleontological Scenario C

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

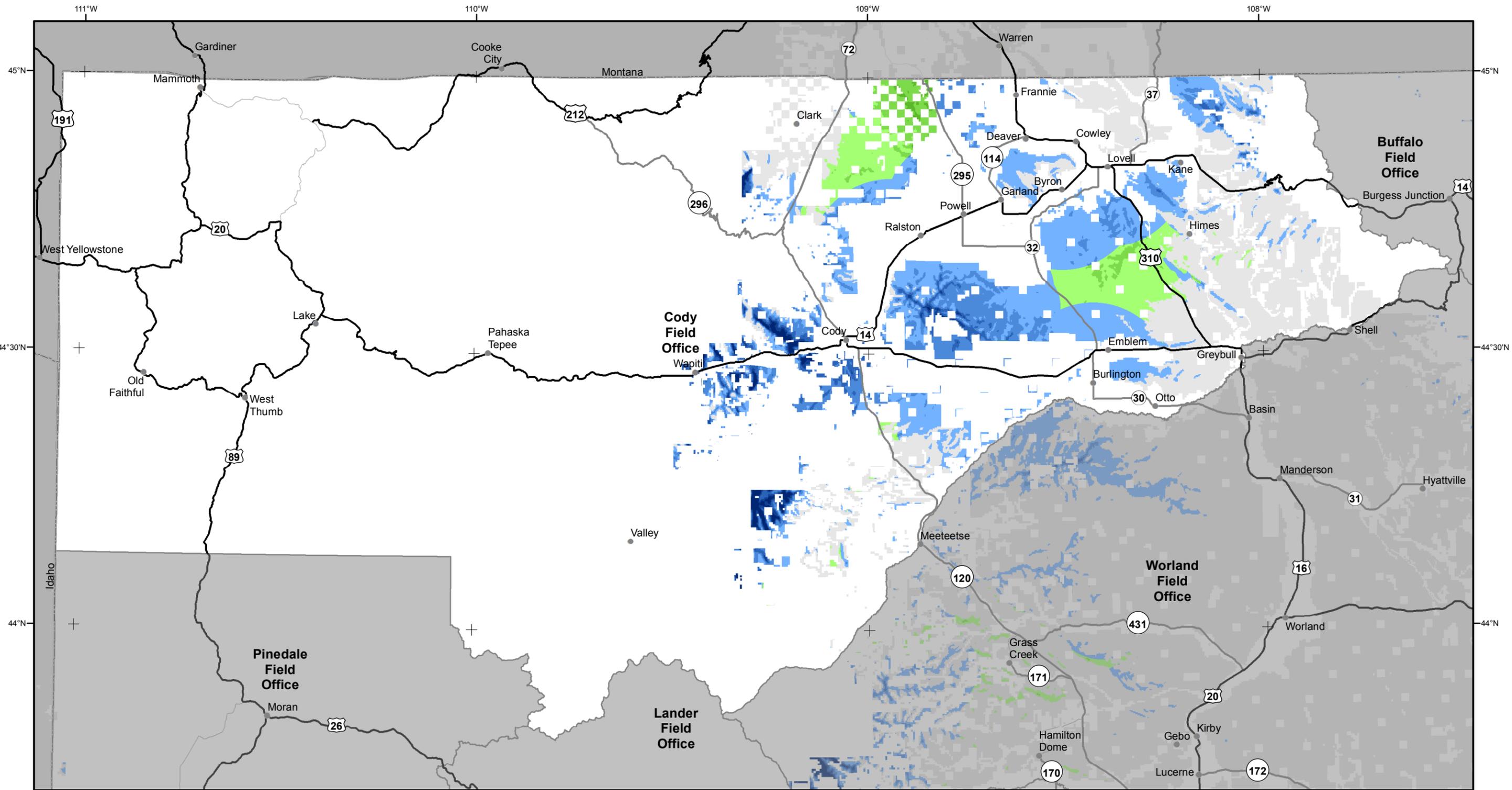
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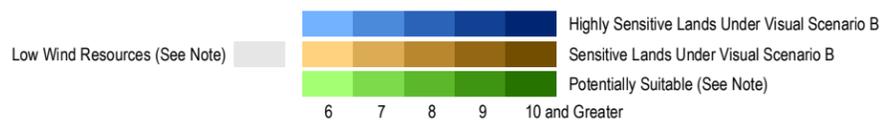
Visual Scenario A

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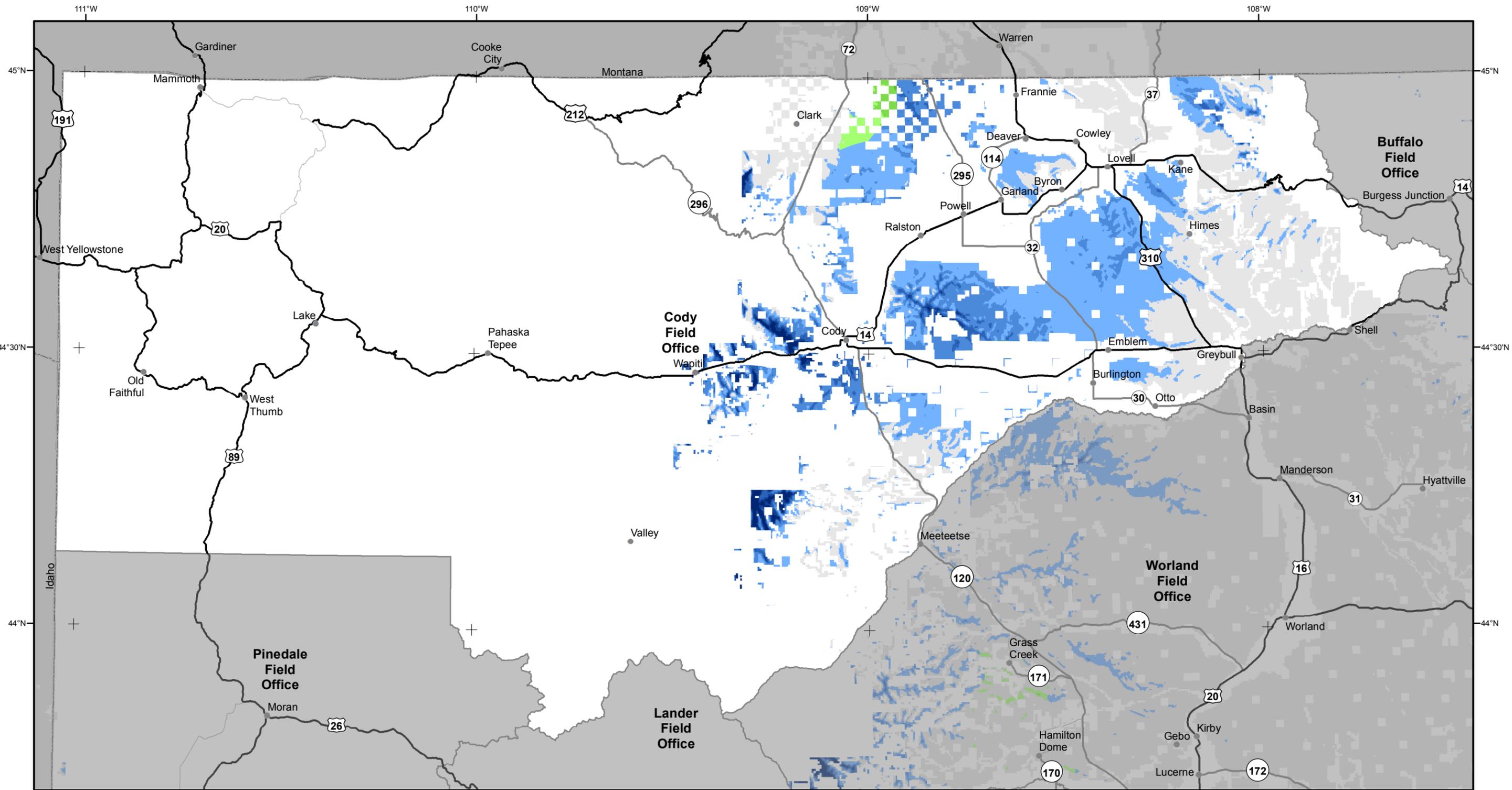
Wind Speed in Meters Per Second



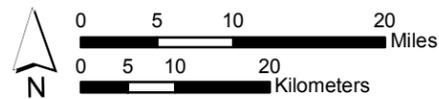
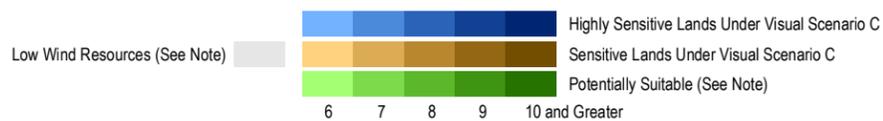
Visual Scenario B

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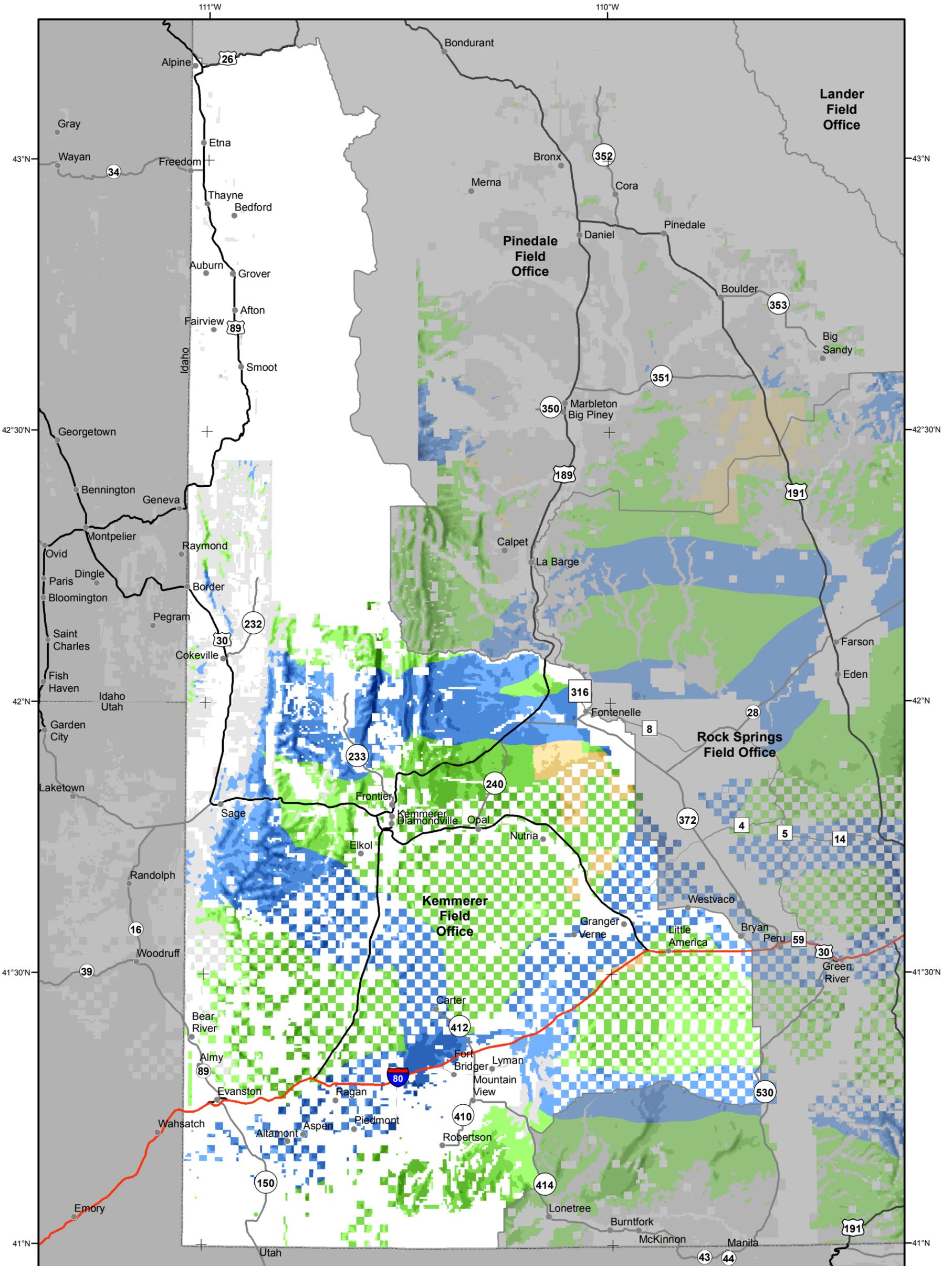
Wind Speed in Meters Per Second



Visual Scenario C

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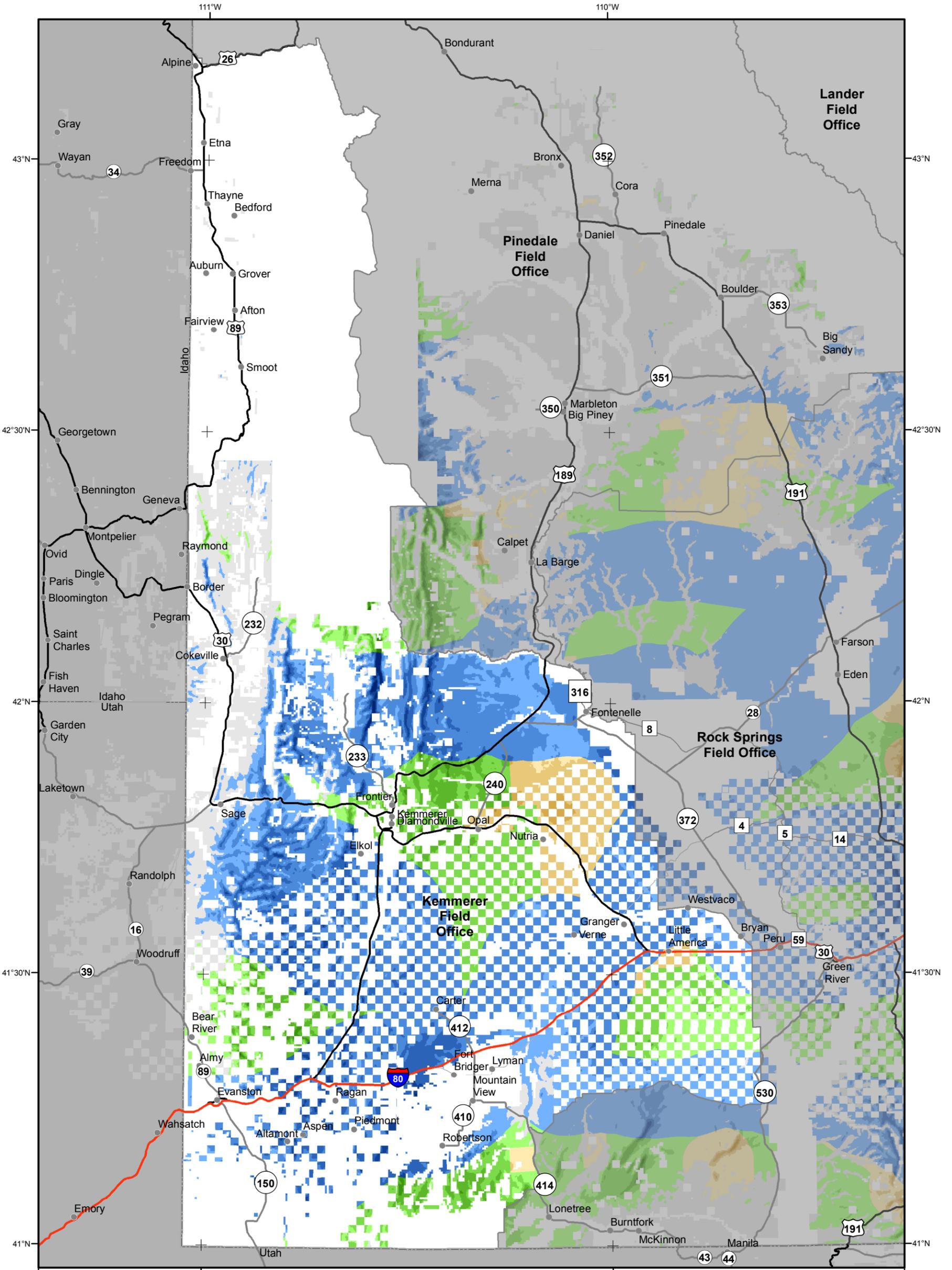
Wind Speed in Meters Per Second



Cultural Scenario A

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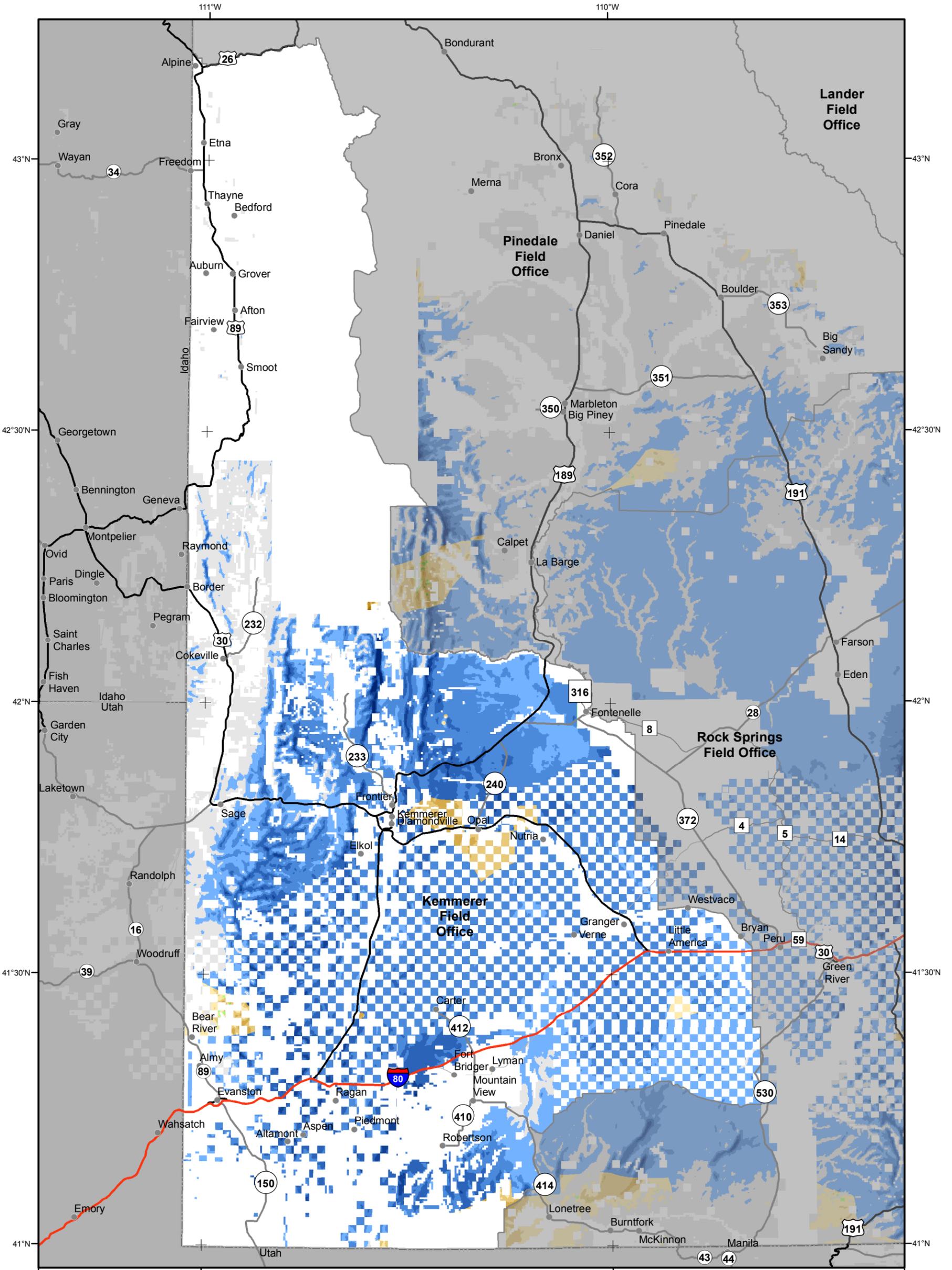
Wind Speed in Meters Per Second



Cultural Scenario B

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Wind Speed in Meters Per Second

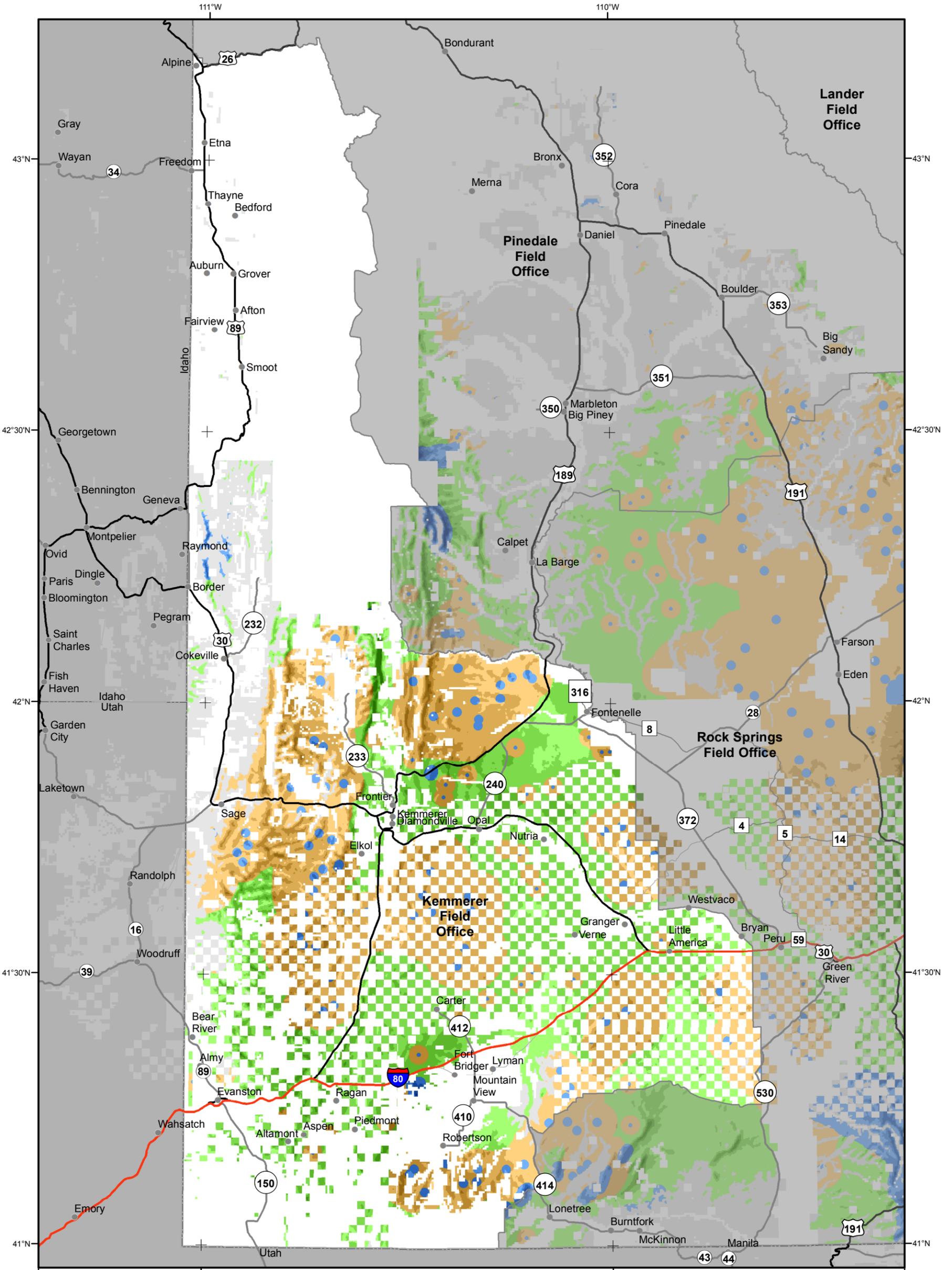


Cultural Scenario C

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Wind Speed in Meters Per Second

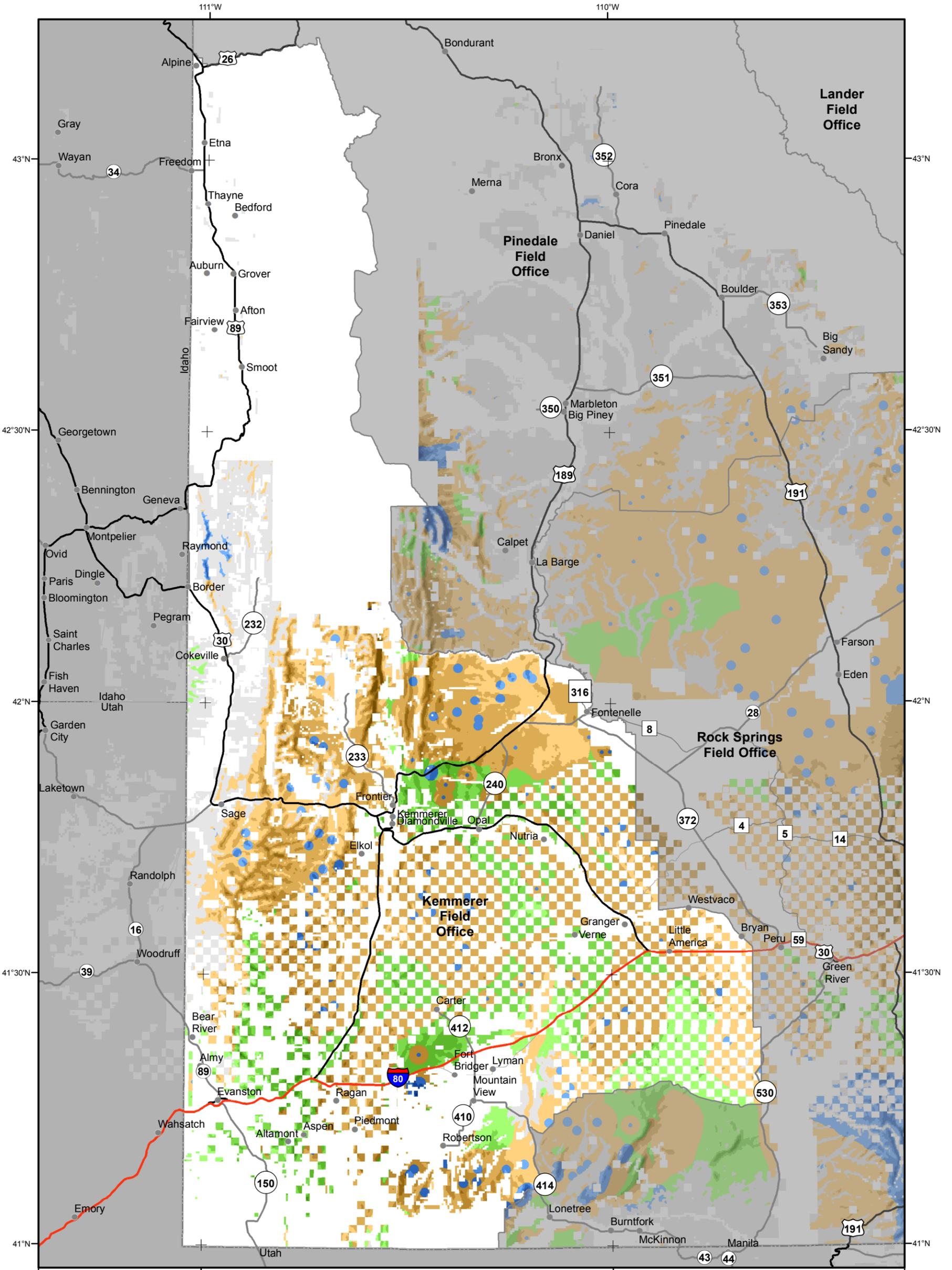


Ecological Scenario A

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.



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Wind Speed in Meters Per Second

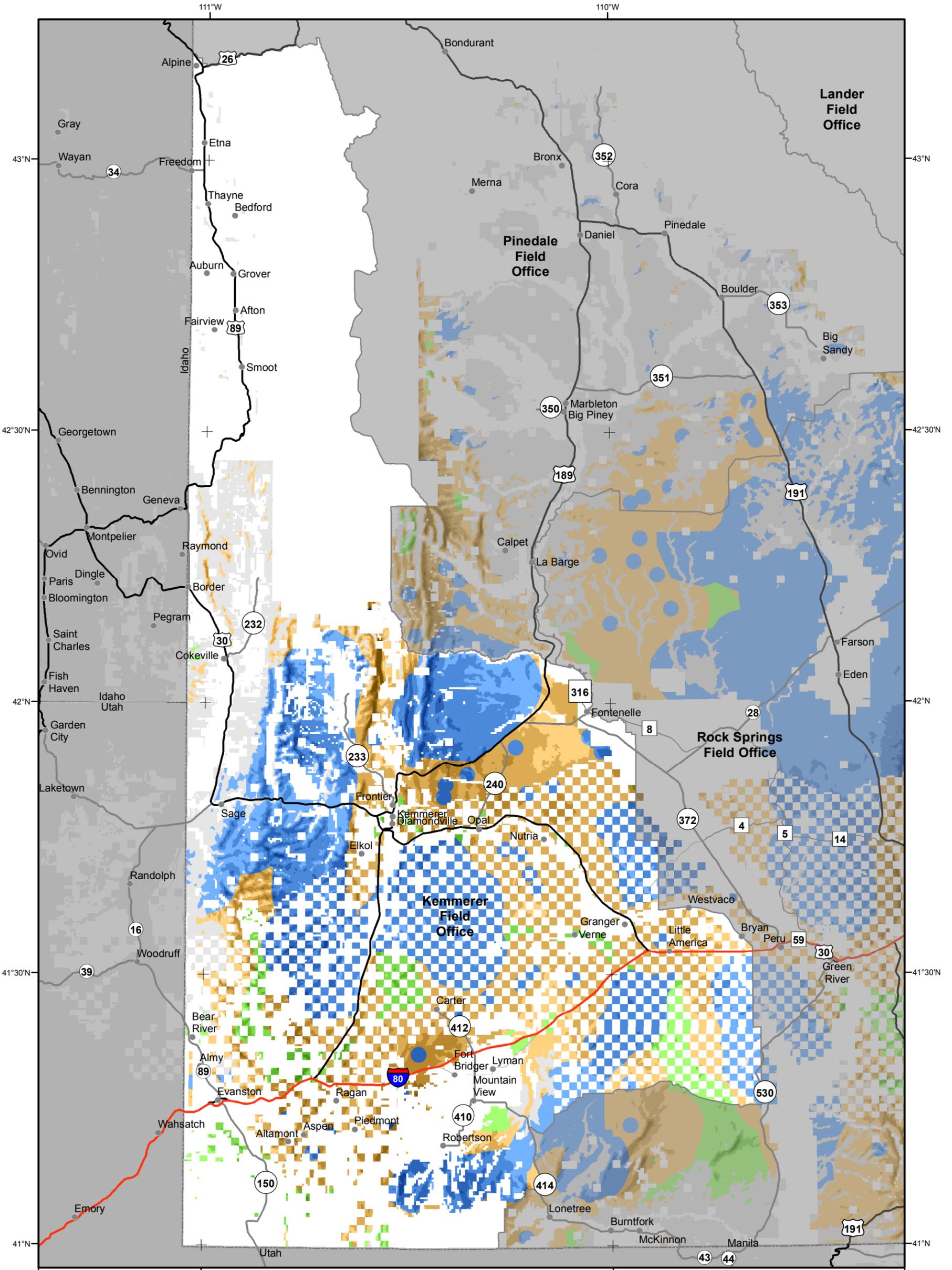


Ecological Scenario B

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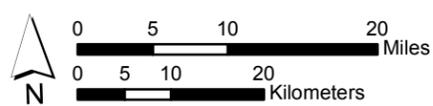


Wind Speed in Meters Per Second

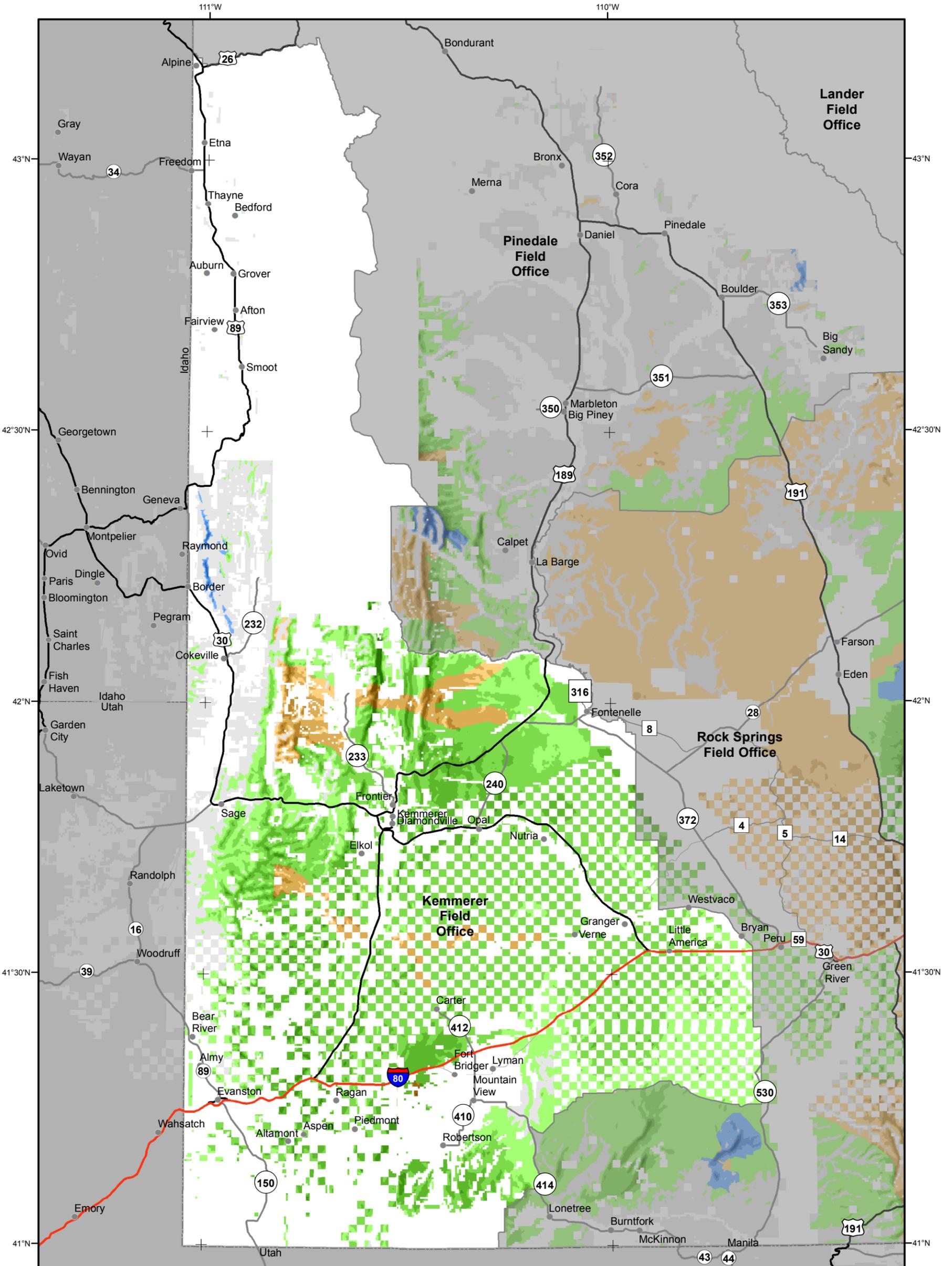


Ecological Scenario C

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Wind Speed in Meters Per Second

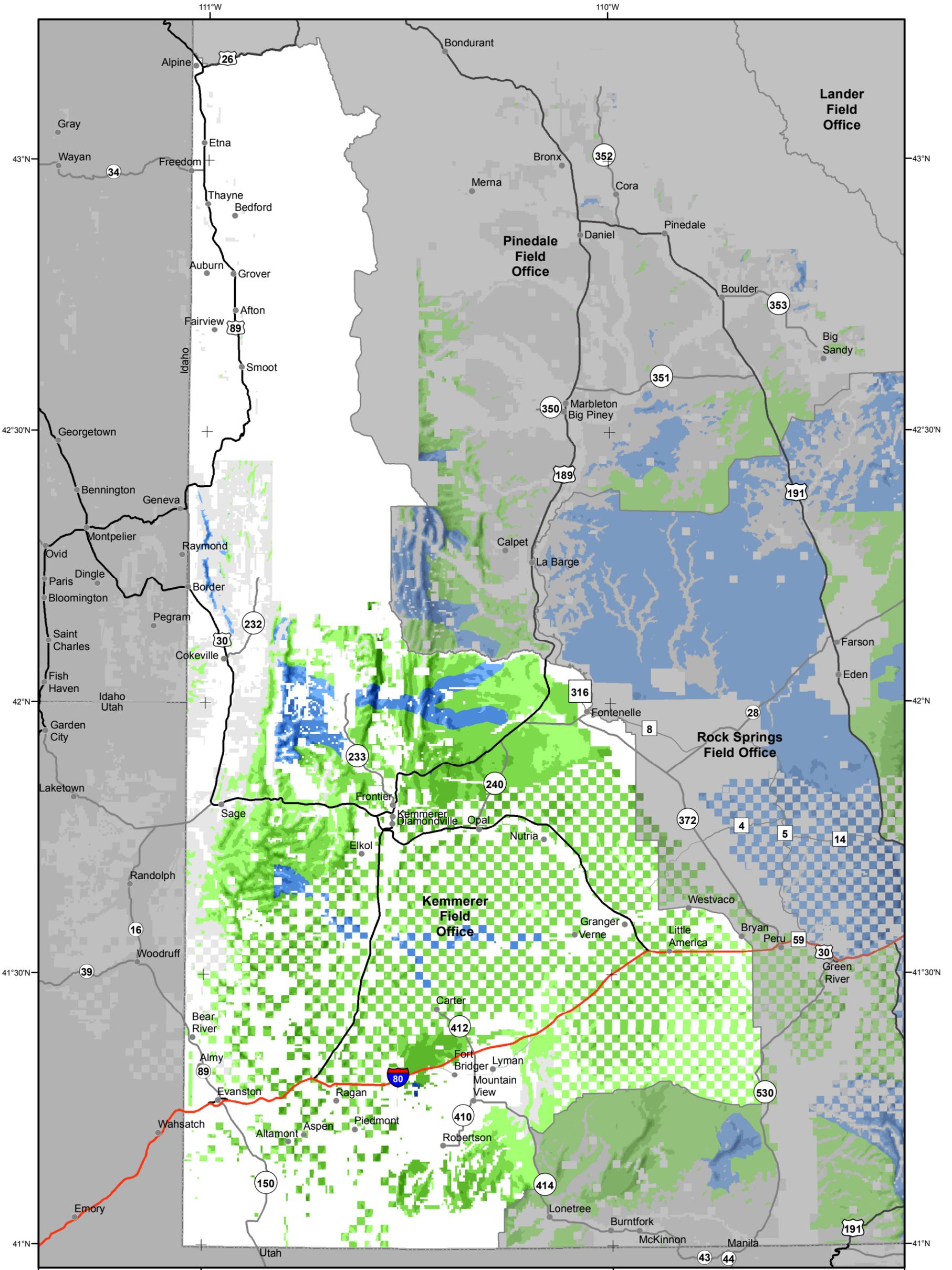


Land Use Scenario A

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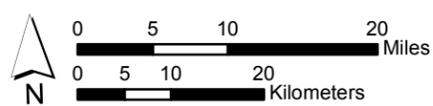


Wind Speed in Meters Per Second

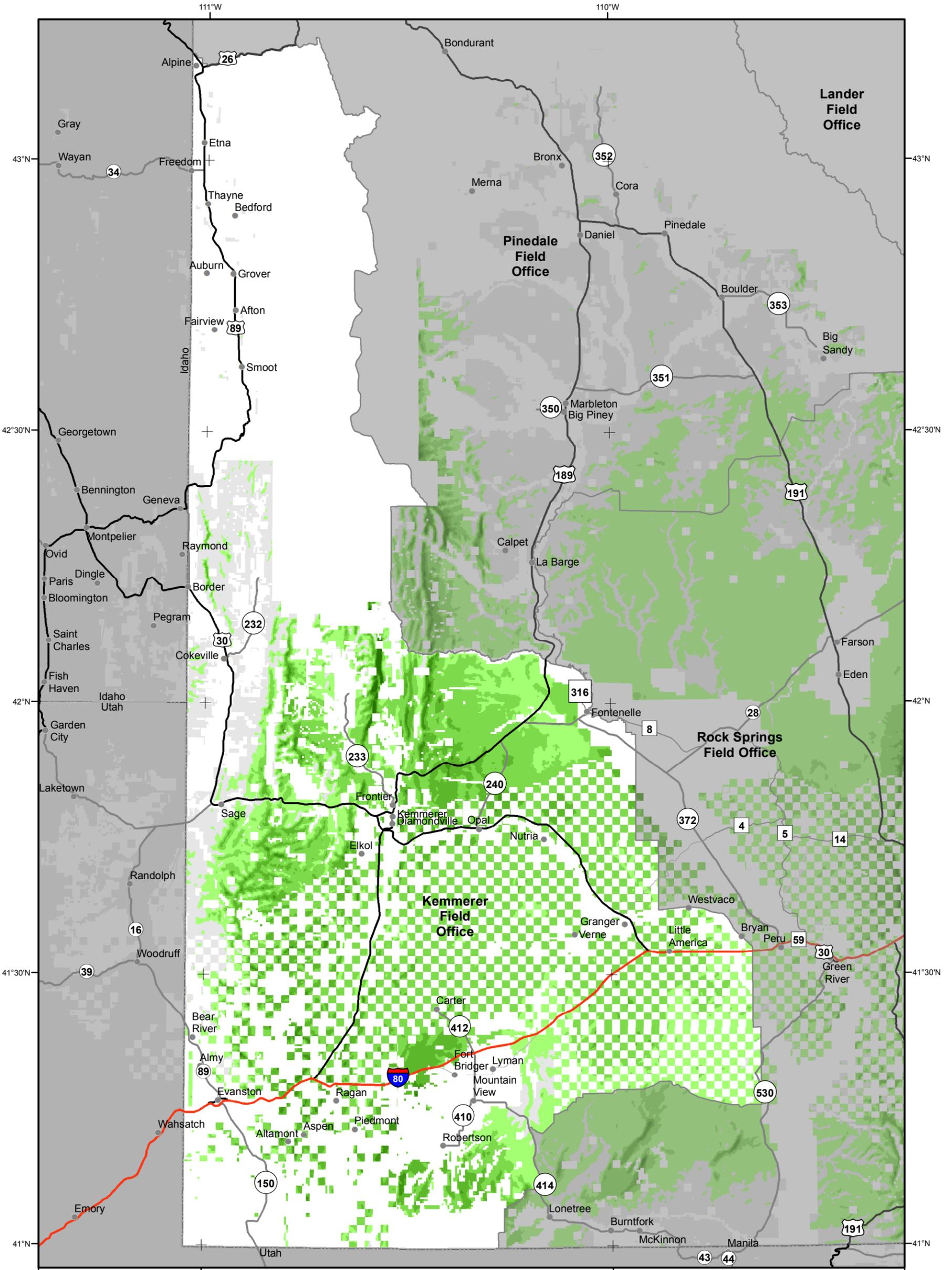


Land Use Scenario B

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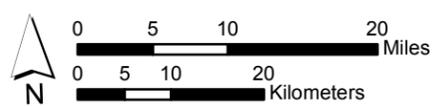


Wind Speed in Meters Per Second

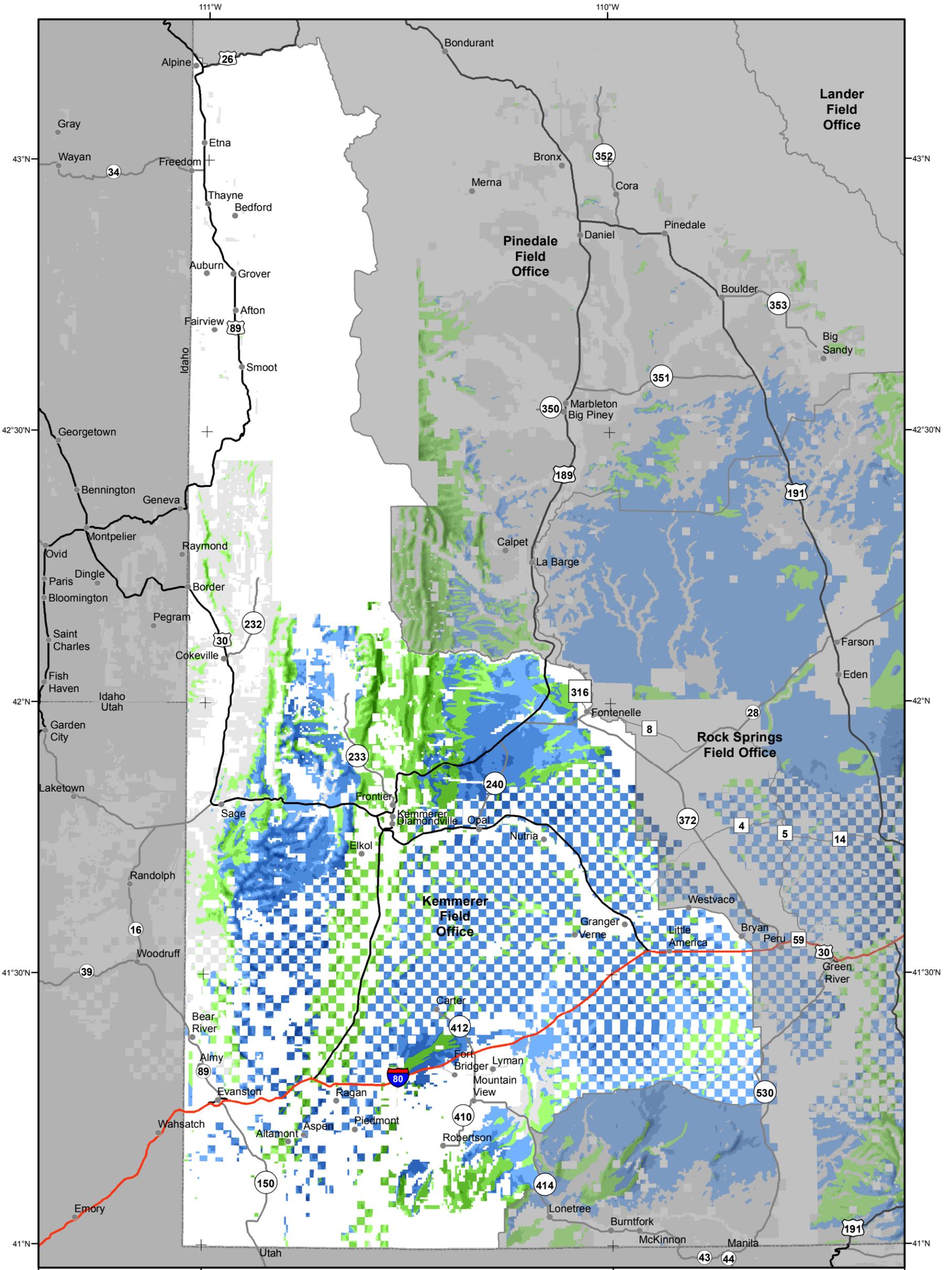


Paleontological Scenario B

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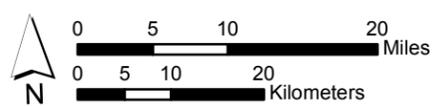


Wind Speed in Meters Per Second

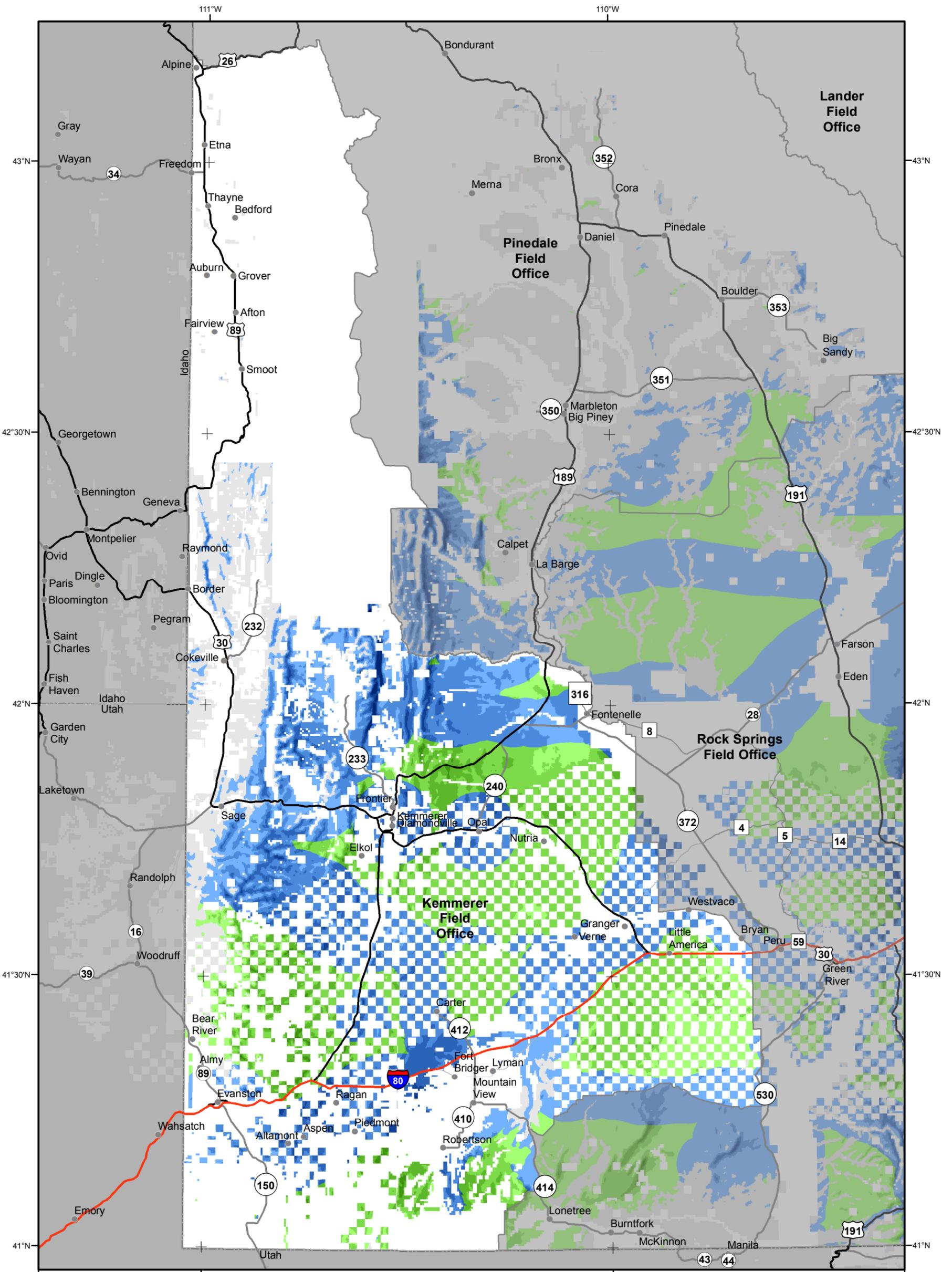


Paleontological Scenario C

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Wind Speed in Meters Per Second

Highly Sensitive Lands Under Visual Scenario A

Sensitive Lands Under Visual Scenario A

Potentially Suitable (See Note)

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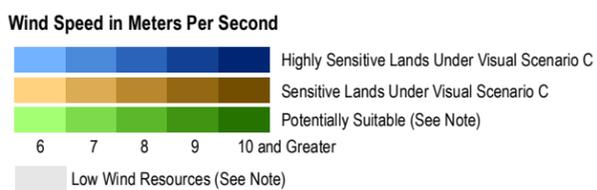
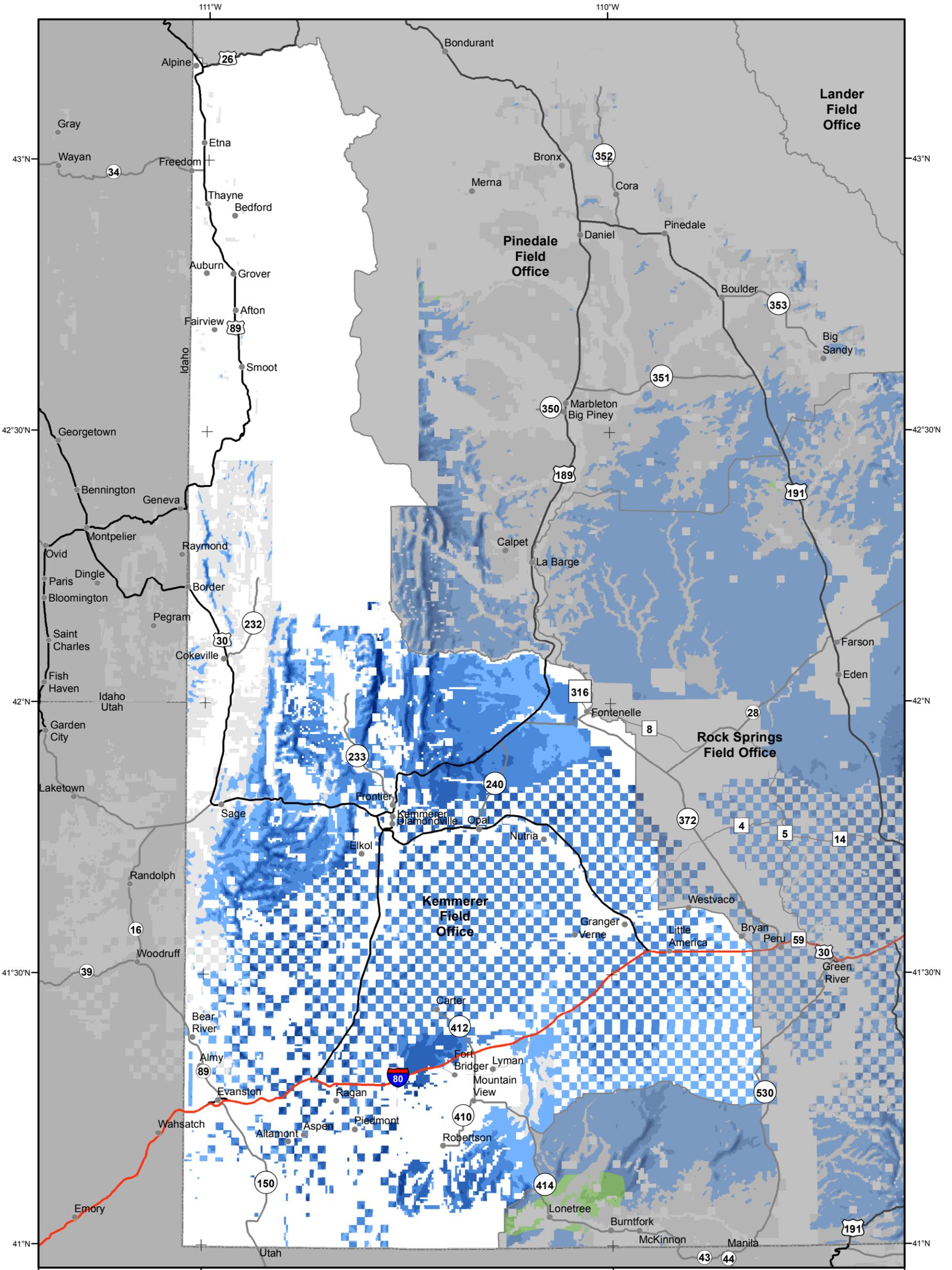
Low Wind Resources (See Note)

Visual Scenario A

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

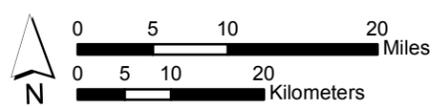


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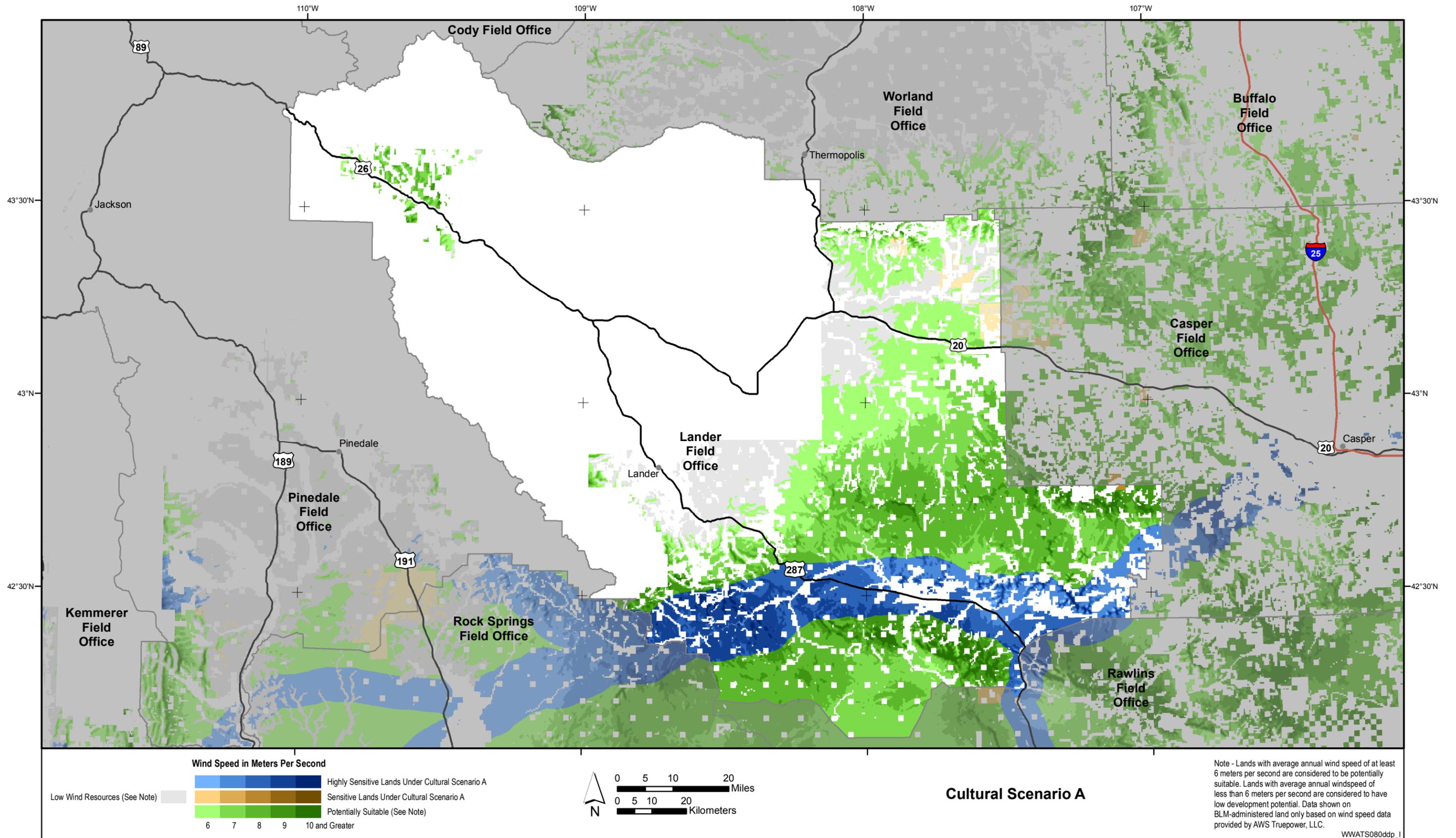


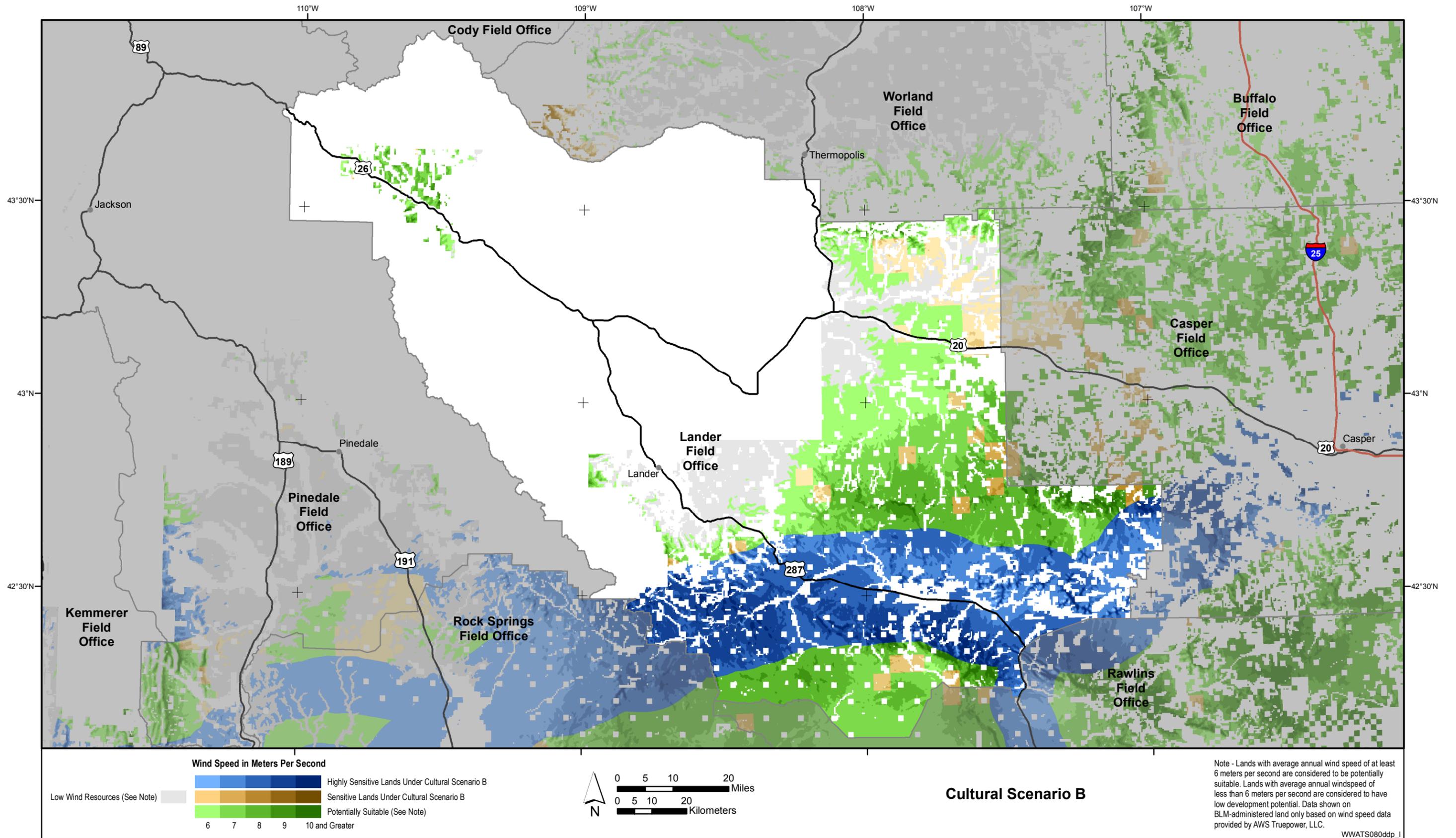
Visual Scenario C

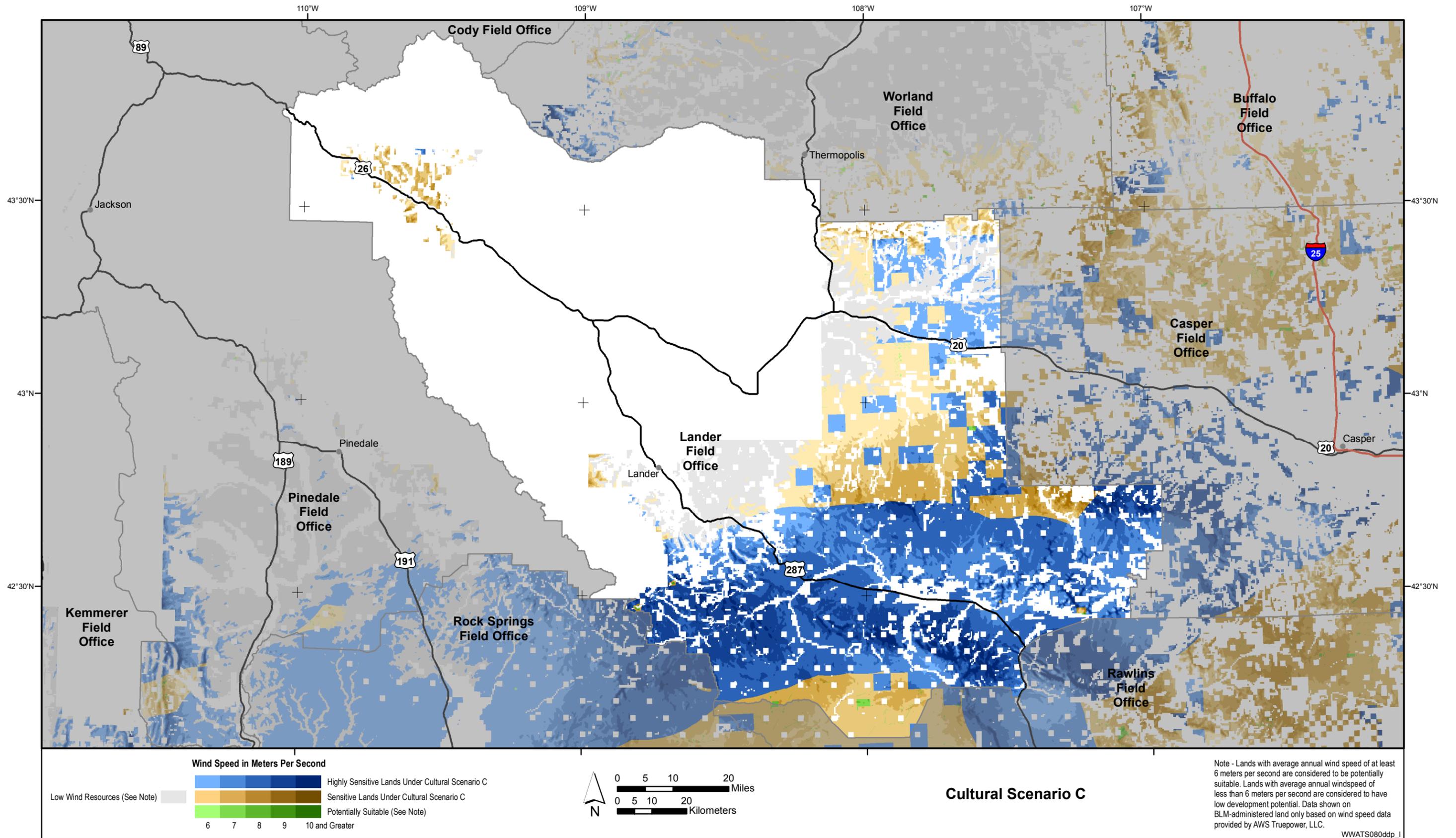
Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.



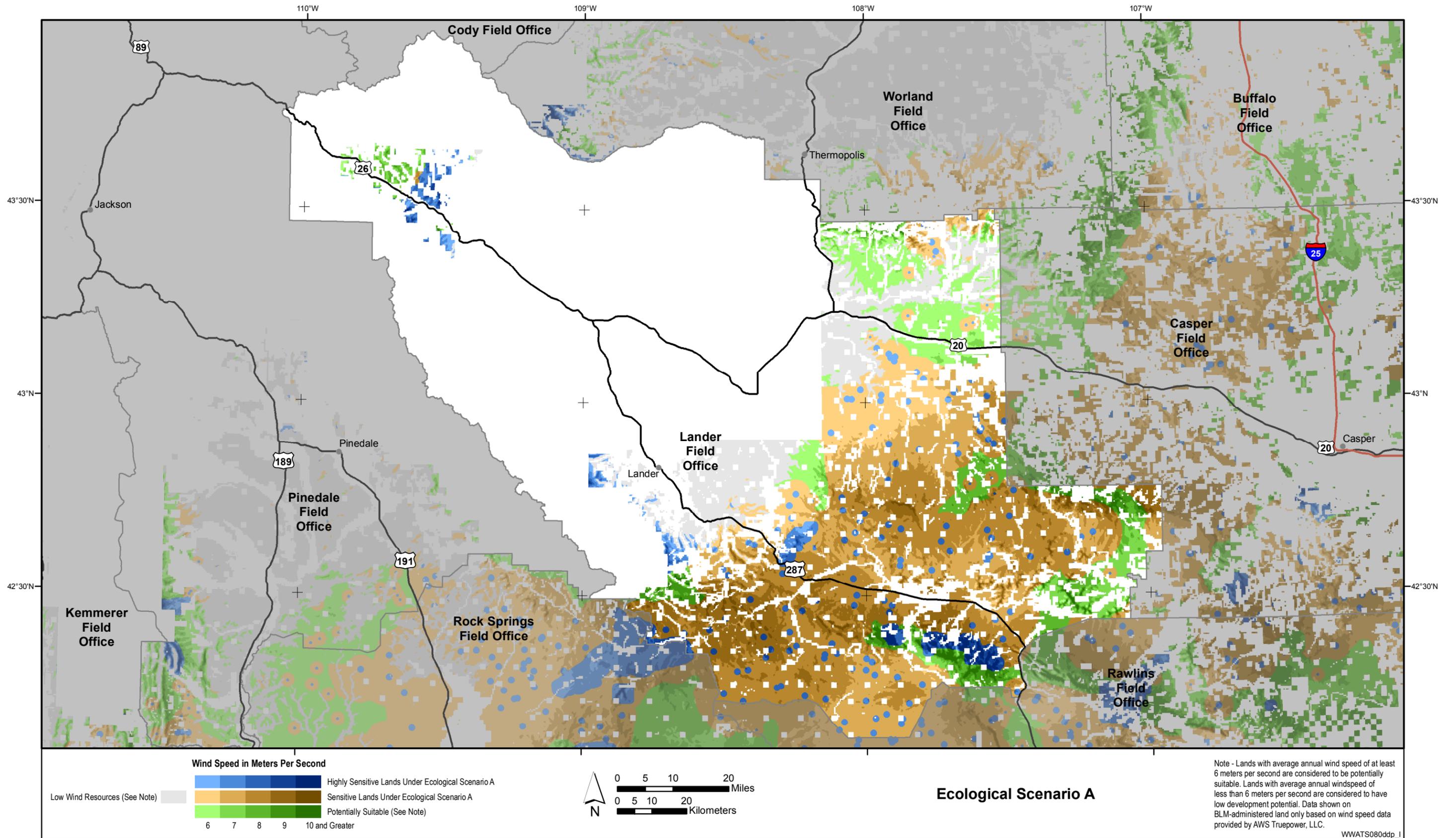
WWATS080ddp



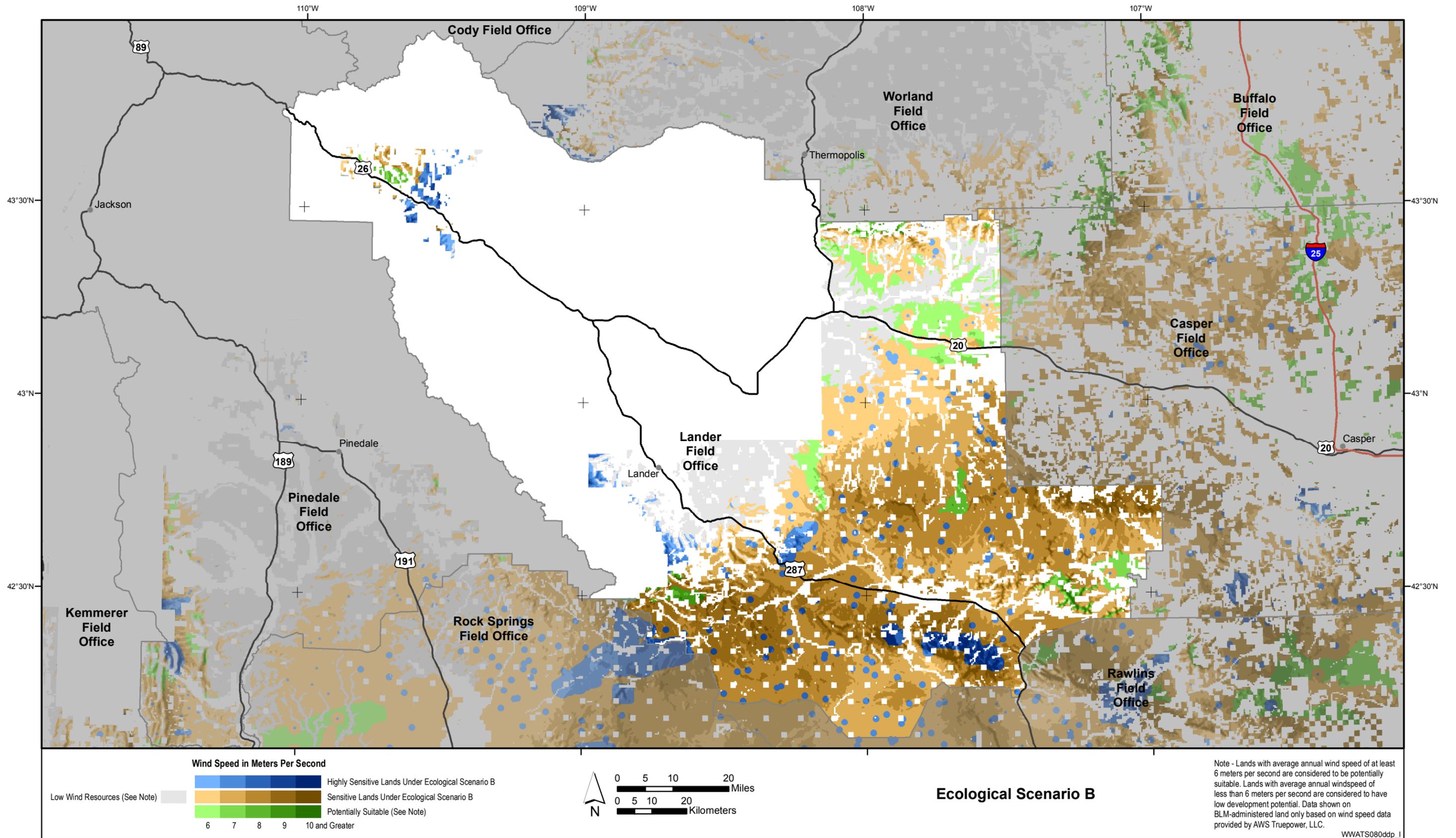




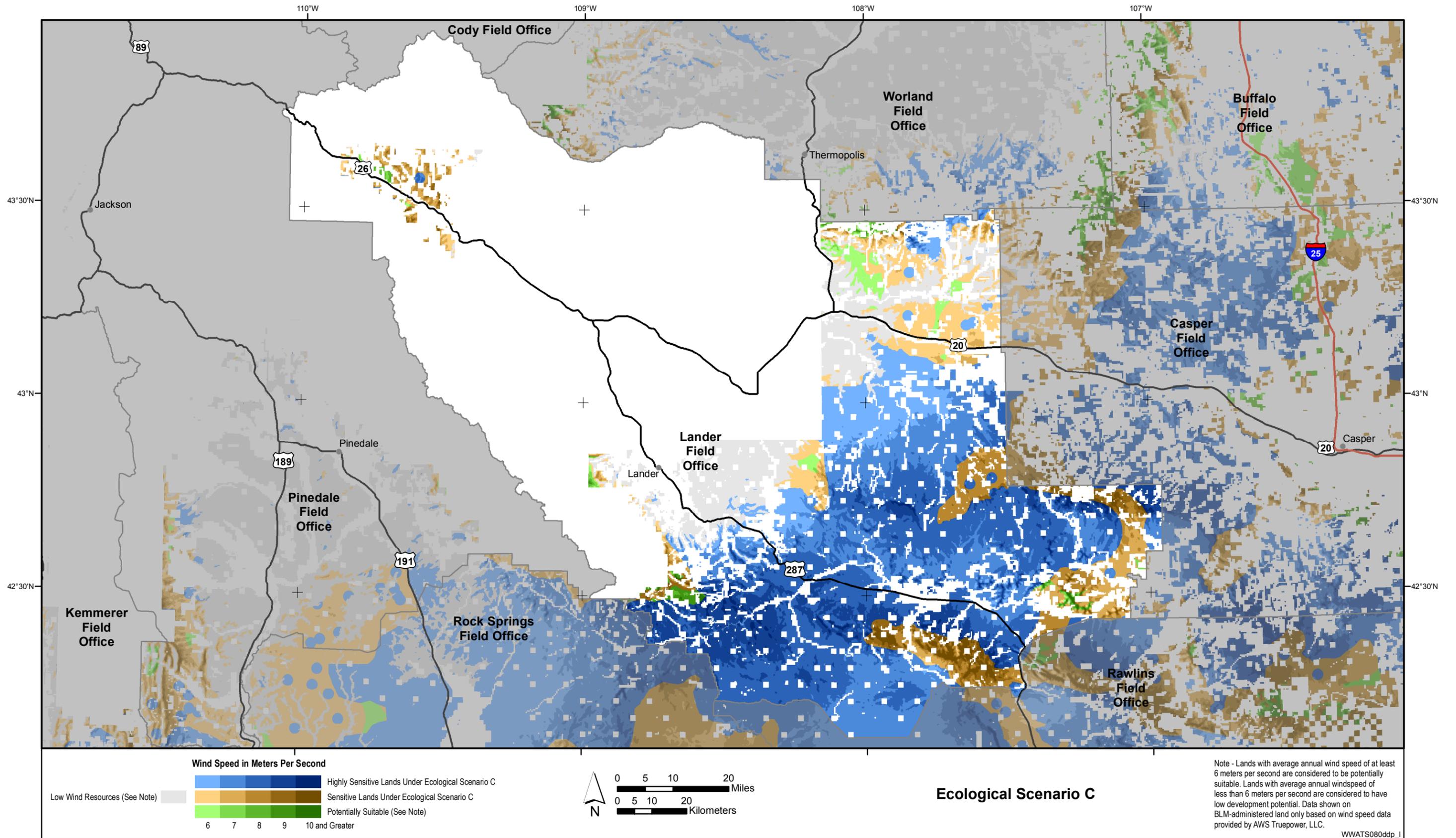
Lander Field Office - Map 55



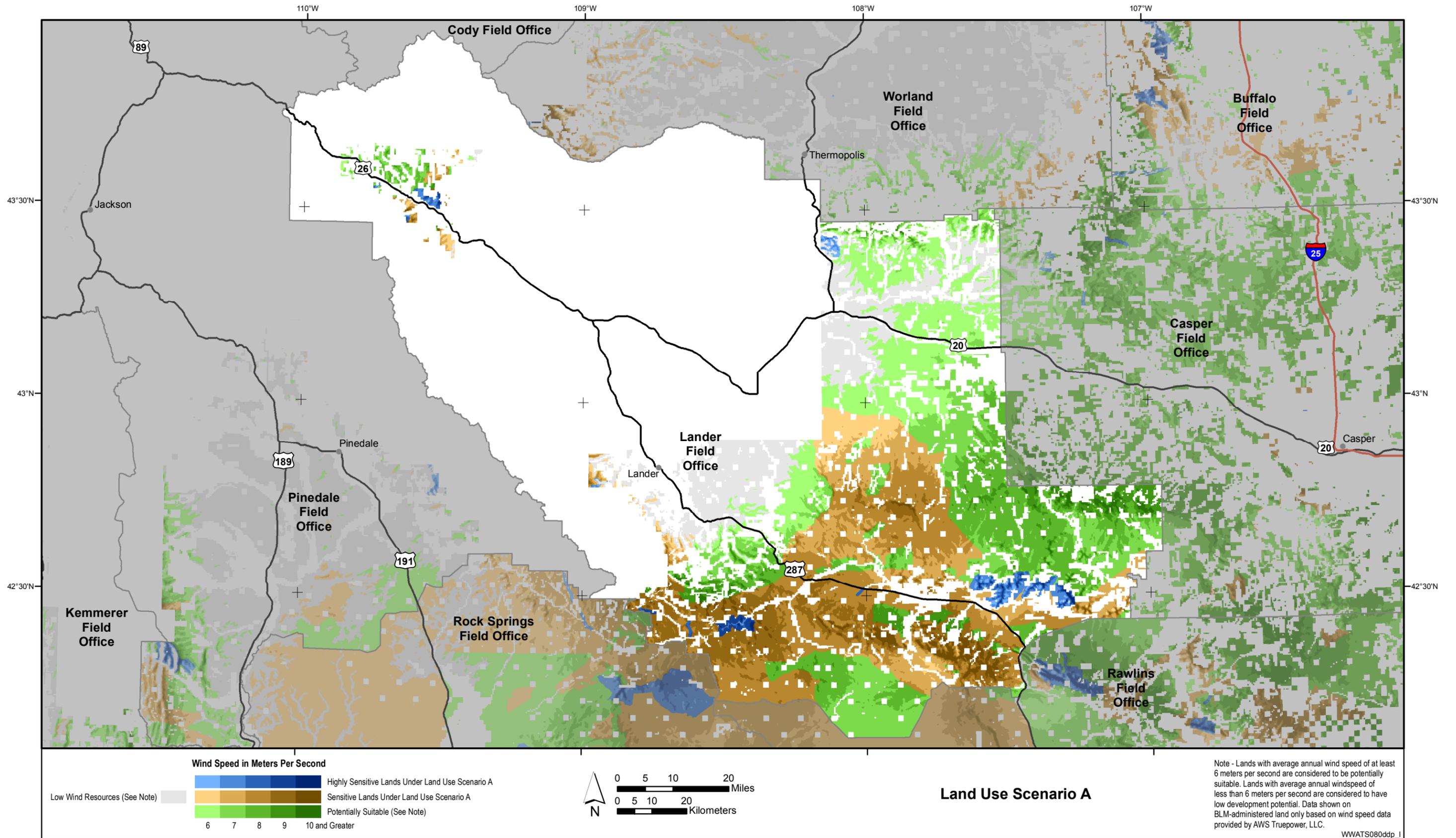
Lander Field Office - Map 56

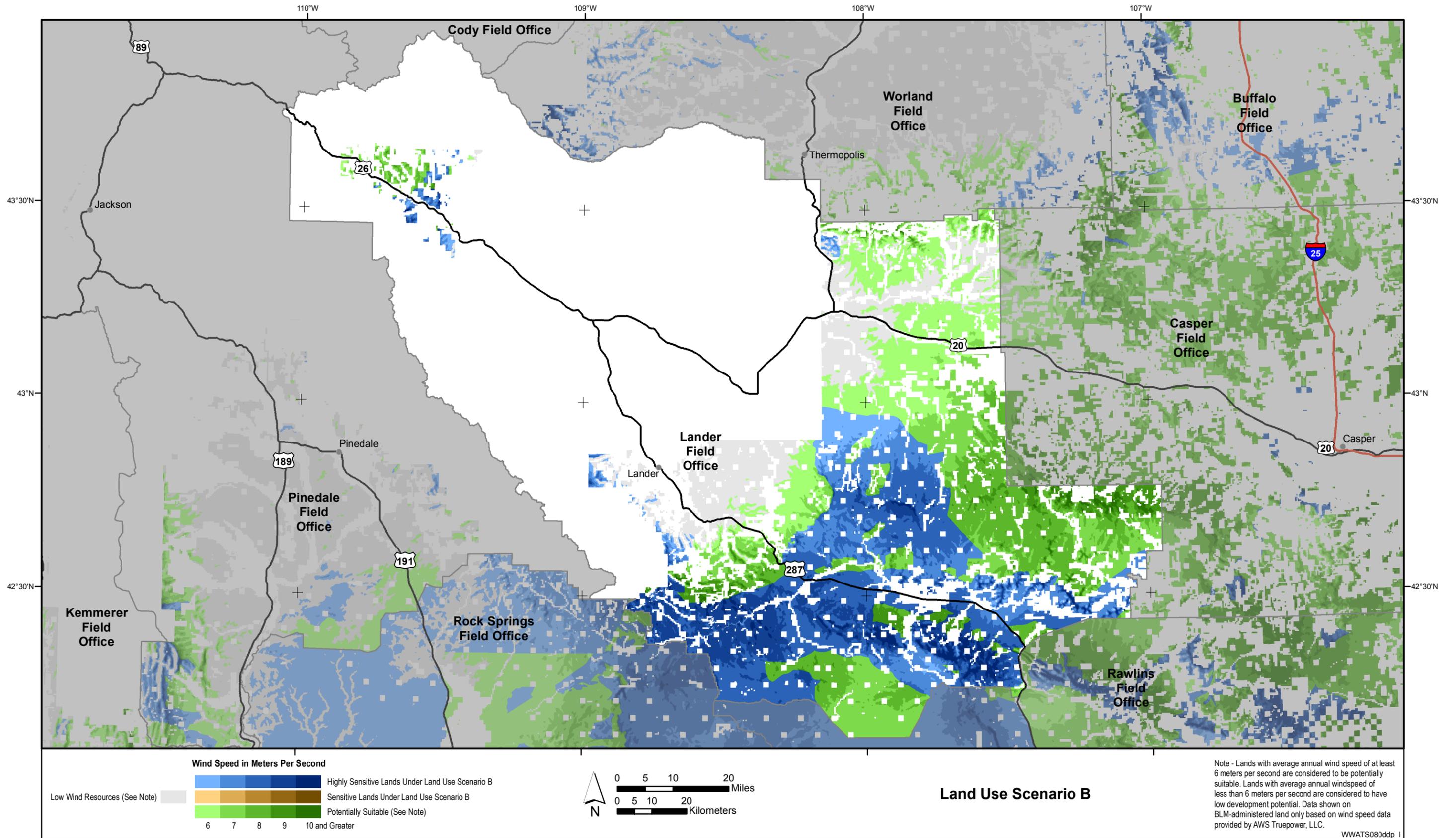


Lander Field Office - Map 57

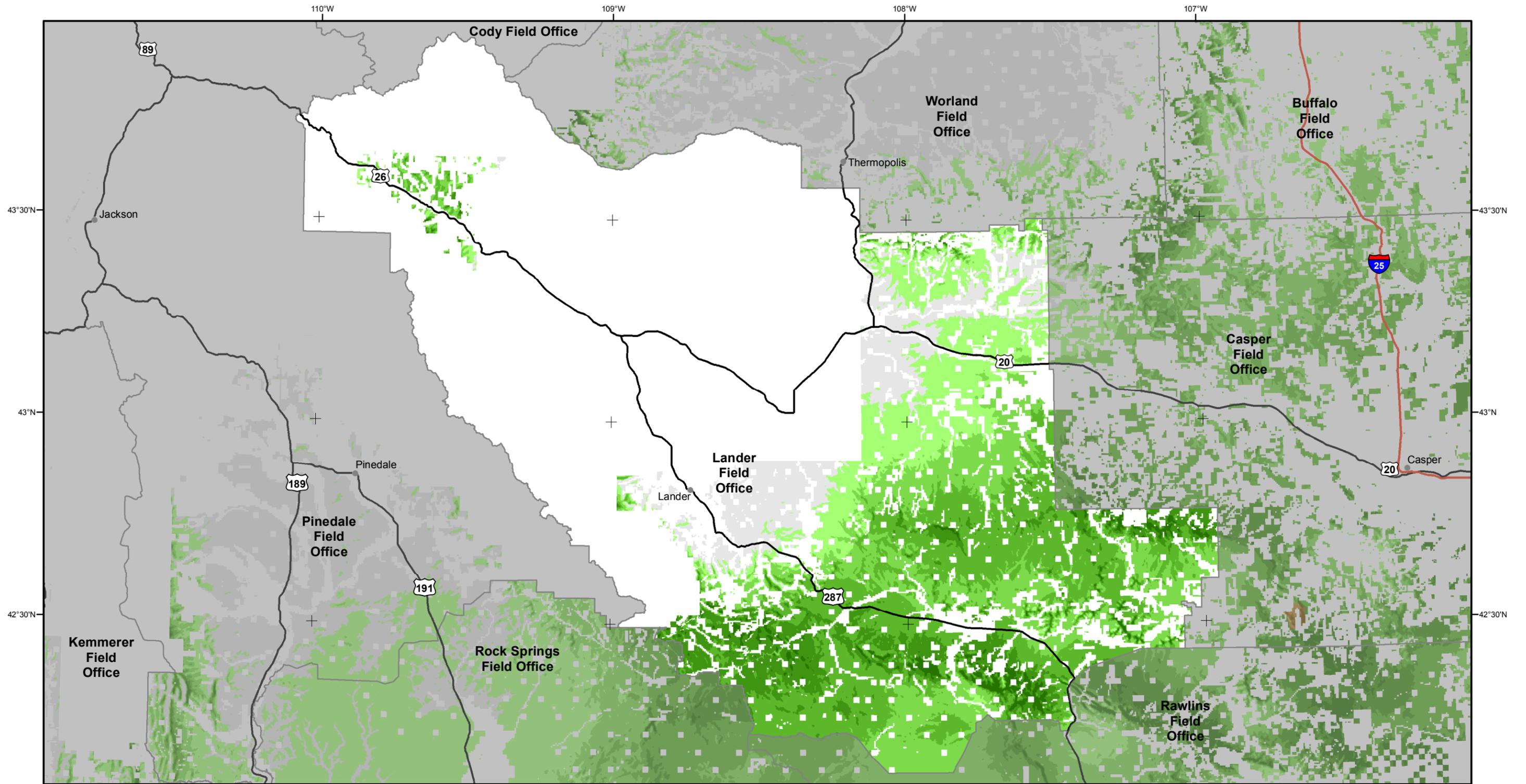


Lander Field Office - Map 58

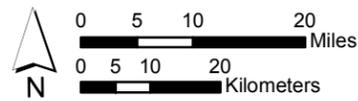
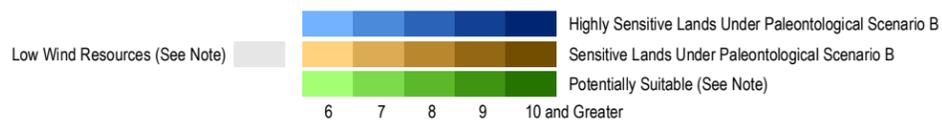




Lander Field Office - Map 60



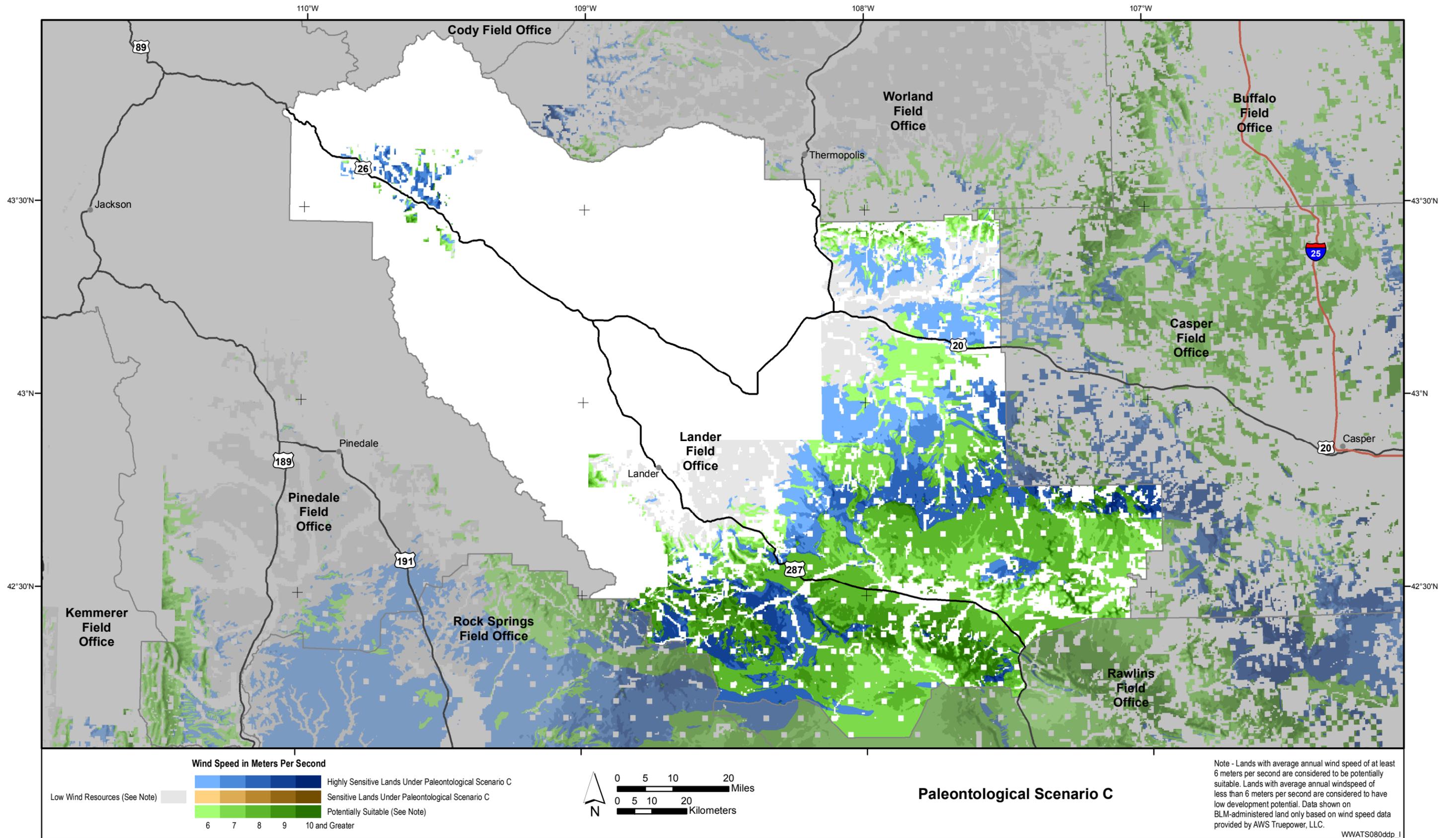
Wind Speed in Meters Per Second



Paleontological Scenario B

Note - Lands with average annual wind speed of at least 6 meters per second are considered to be potentially suitable. Lands with average annual windspeed of less than 6 meters per second are considered to have low development potential. Data shown on BLM-administered land only based on wind speed data provided by AWS Truepower, LLC.

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Lander Field Office - Map 62

