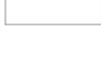


-  Travel Management Area - Alternative B
-  Travel Management Area - Alternatives C and D
-  Highway
-  Local Roads
-  Other Roads
-  BLM
-  BOR
-  USFS
-  Private
-  SD GFP
-  State
-  Water



**Map 2-1:
Center of the Nation
Proposed Travel Management Area**

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**Map 2-2:
Land Retention Zones within
the South Dakota Planning Area**

Category 1 and 2 Land Retention Zones

Alternative B
Alternative C
Alternative D

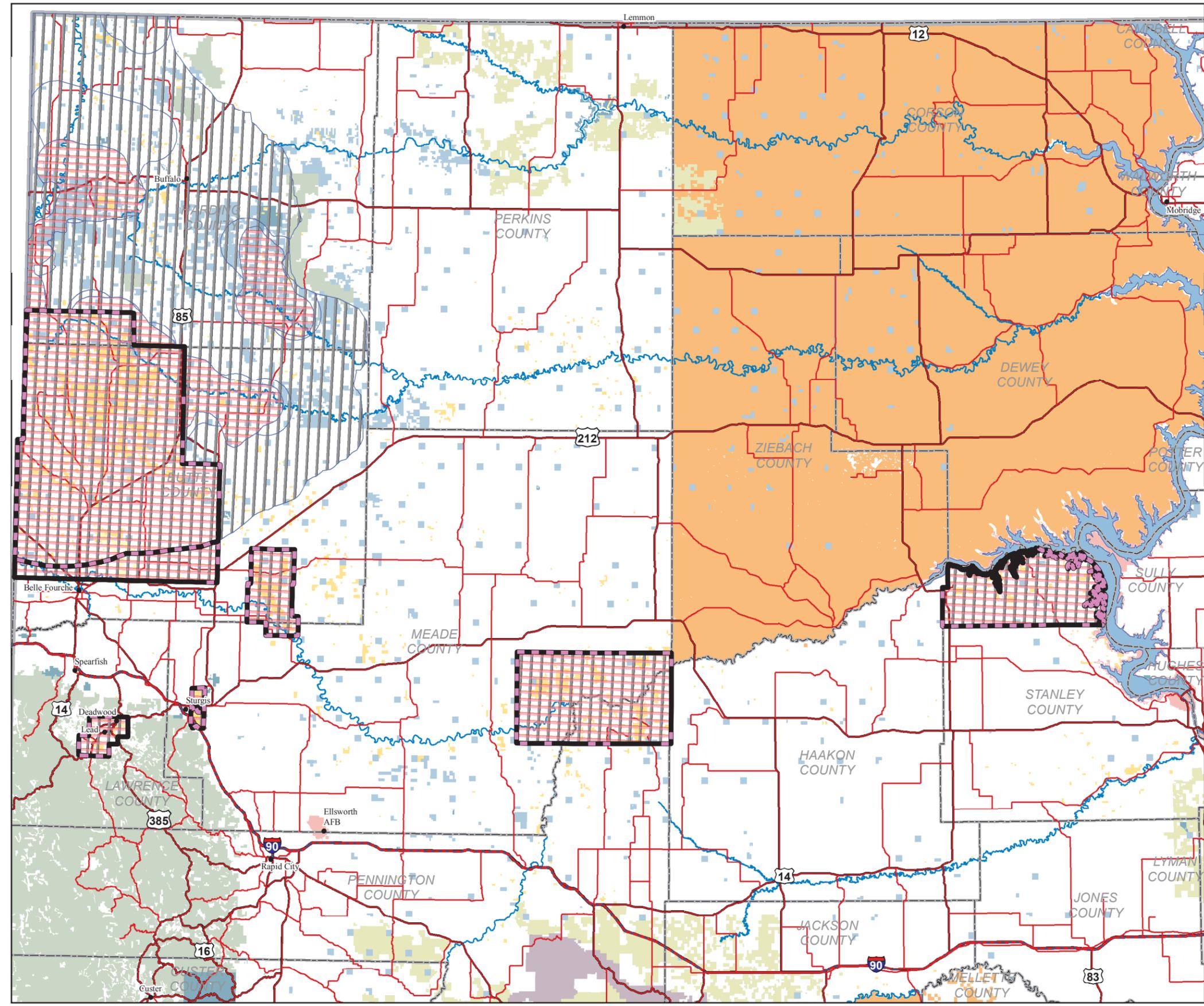
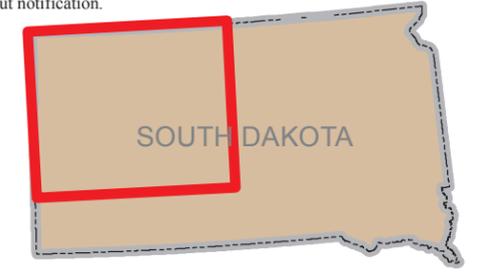
Lands not depicted as Category 1 and 2 are Category 3 within each Alternative.

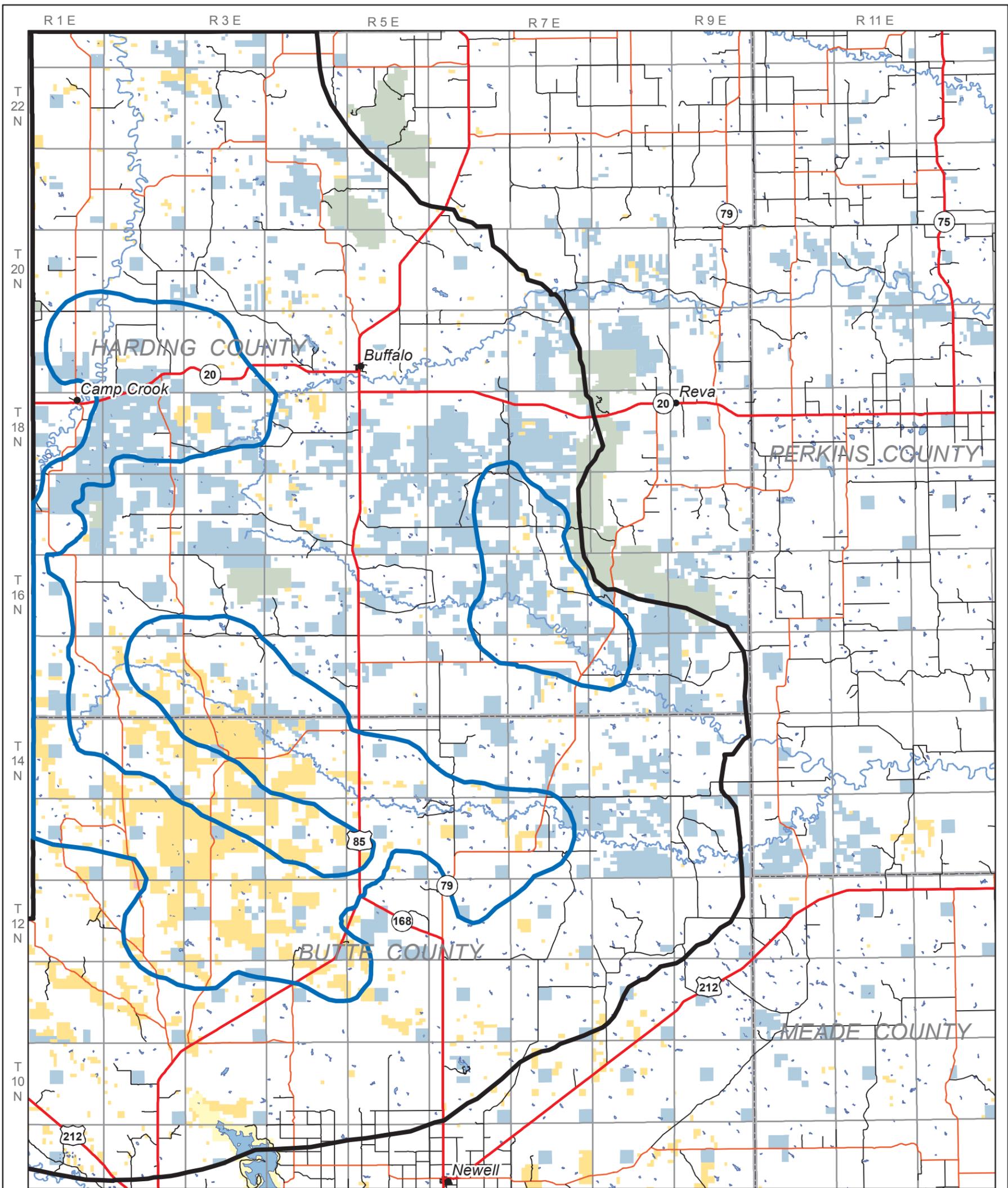
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Water
- Bureau of Land Management
- Bureau of Reclamation
- Bureau of Indian Affairs
- Military Reservations/Corps of Engineers
- National Forest Lands
- National Grasslands
- National Park Service
- Private Lands
- State Game, Fish, and Parks
- State Lands
- USFW Service, National Wildlife Refuges



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-  Priority Habitat Management Areas
 -  General Habitat Management Areas
 -  Highway
 -  Local Roads
 -  Other Roads
 -  BLM
 -  BOR
 -  COE
 -  USFS
 -  Private
 -  State
 -  Water
- BLM only has jurisdiction within BLM-administered surface management agency lands.



**Map 2-3: Greater Sage-Grouse
Priority Habitat Management
Areas (PHMAs) and General Habitat
Management Areas (GHMAs)
Alternative B**

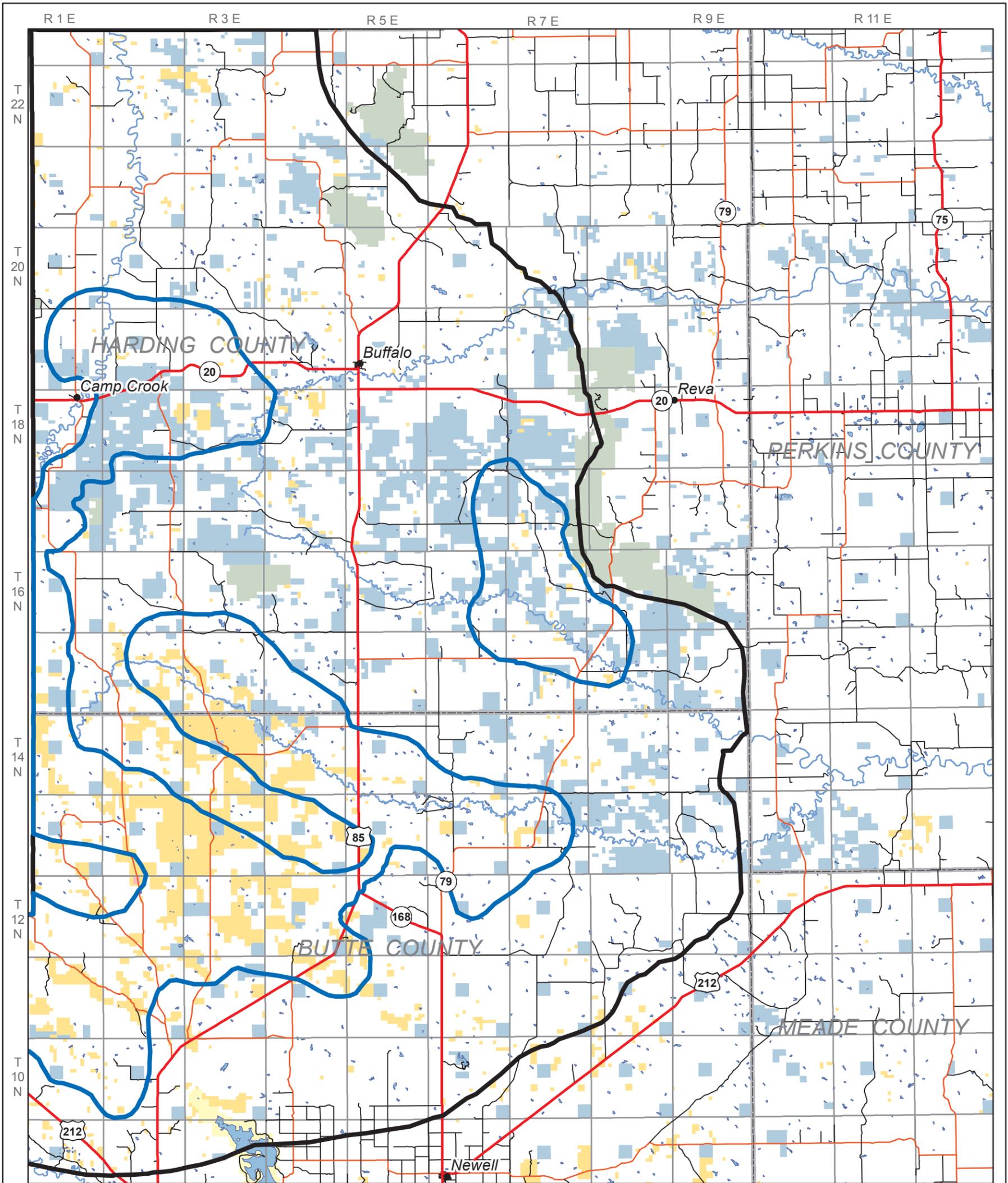
U.S. DEPARTMENT OF THE INTERIOR
Bureau of Land Management

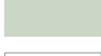


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-  Priority Habitat Management Areas
 -  General Habitat Management Areas
 -  Highway
 -  Local Roads
 -  Other Roads
 -  BLM
 -  BOR
 -  COE
 -  USFS
 -  Private
 -  State
 -  Water
- BLM only has jurisdiction within BLM-administered surface management agency lands.



**Map 2-4: Greater Sage-Grouse
Priority Habitat Management
Areas (PHMAs) and General Habitat
Management Areas (GHMAs)
Alternative C**

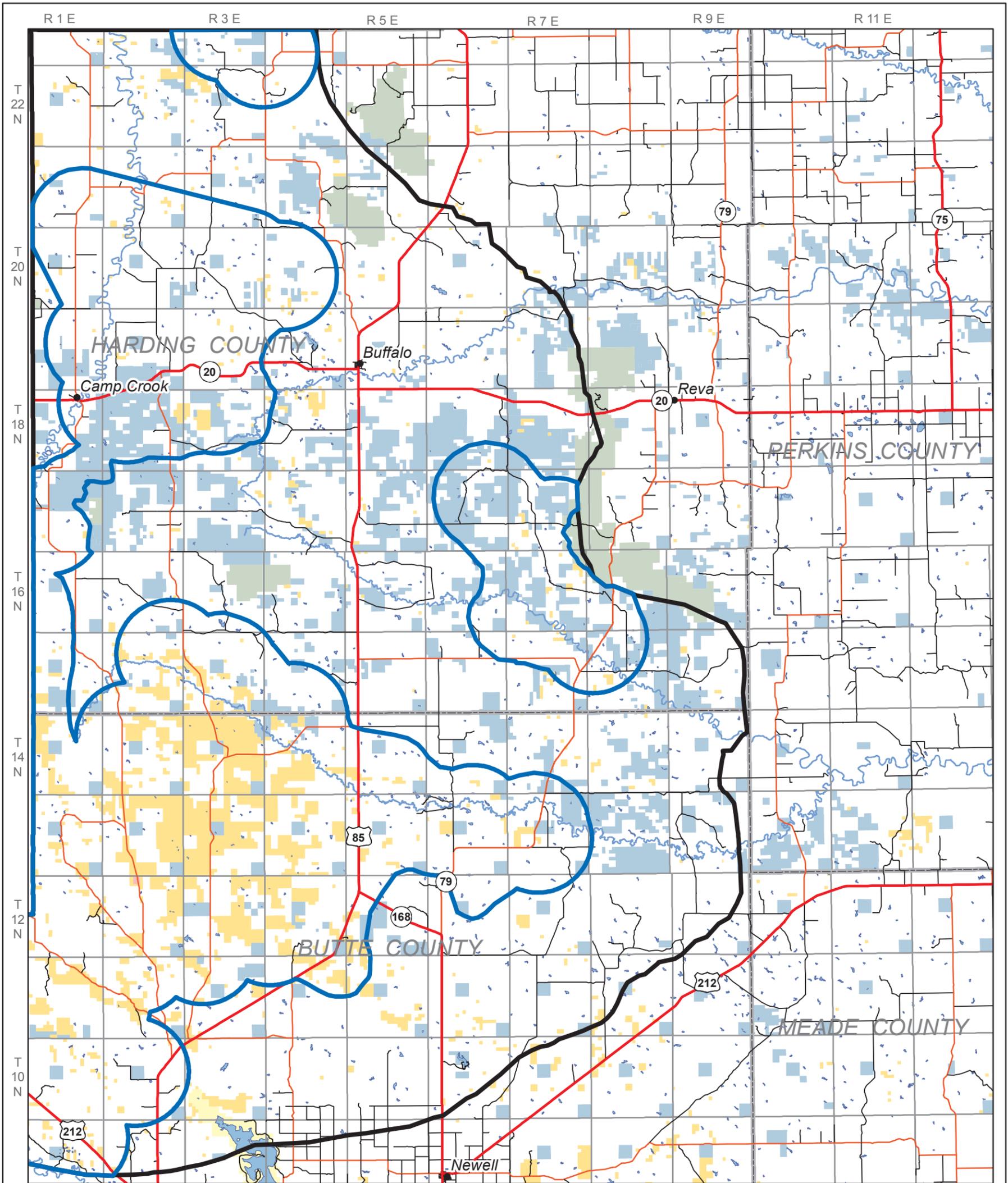
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-  Priority Habitat Management Areas
 -  General Habitat Management Areas
 -  Highway
 -  Local Roads
 -  Other Roads
 -  BLM
 -  BOR
 -  COE
 -  USFS
 -  Private
 -  State
 -  Water
- BLM only has jurisdiction within BLM-administered surface management agency lands.



**Map 2-5: Greater Sage-Grouse
Priority Habitat Management
Areas (PHMAs) and General Habitat
Management Areas (GHMAs)
Alternative D**

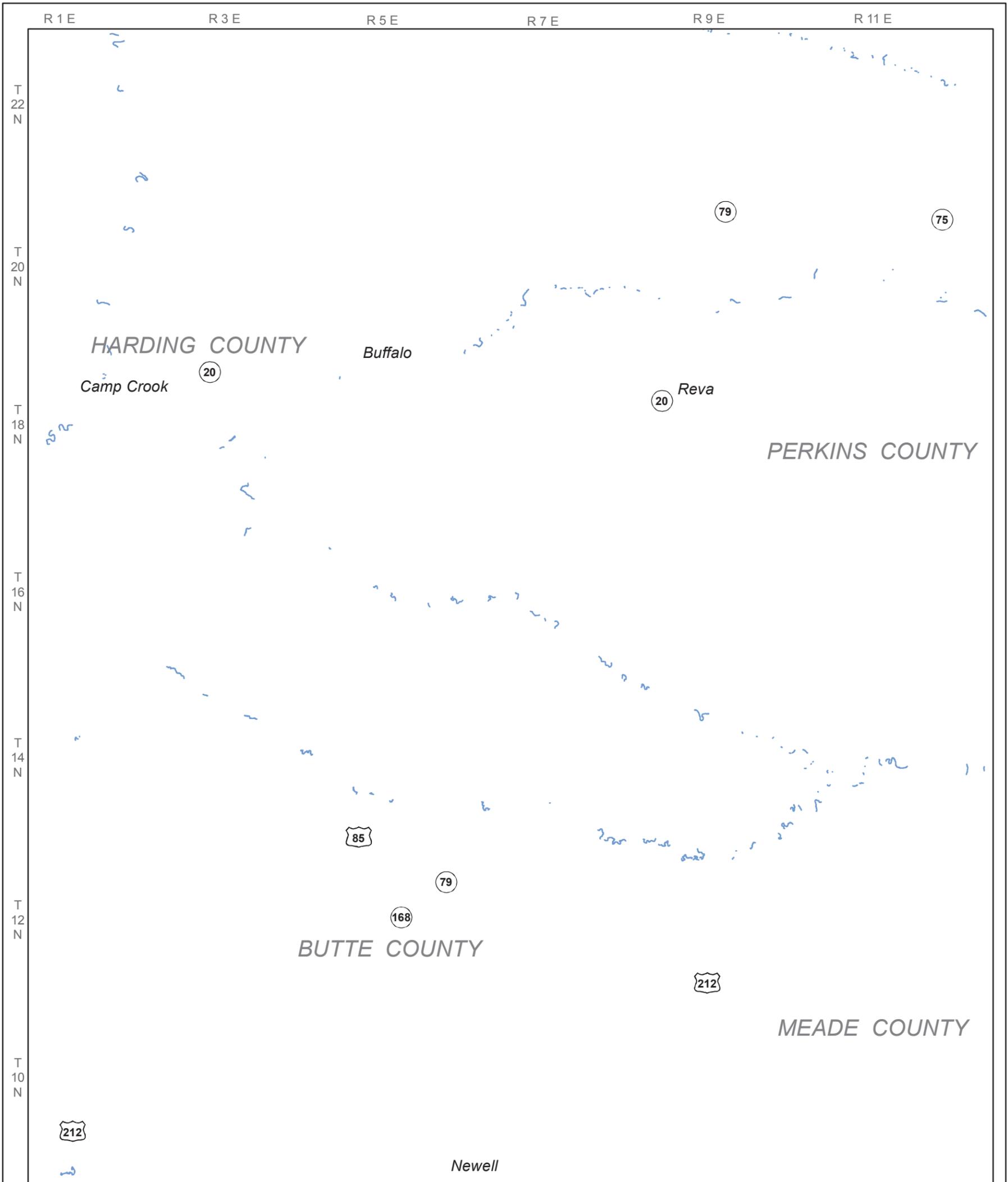
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- Sagebrush Cover Over 10%
- BLM
- BOR
- COE
- USFS
- Private
- State
- Water
- Highway
- Local Roads
- Other Roads



Map 2-6: Sagebrush Inventory

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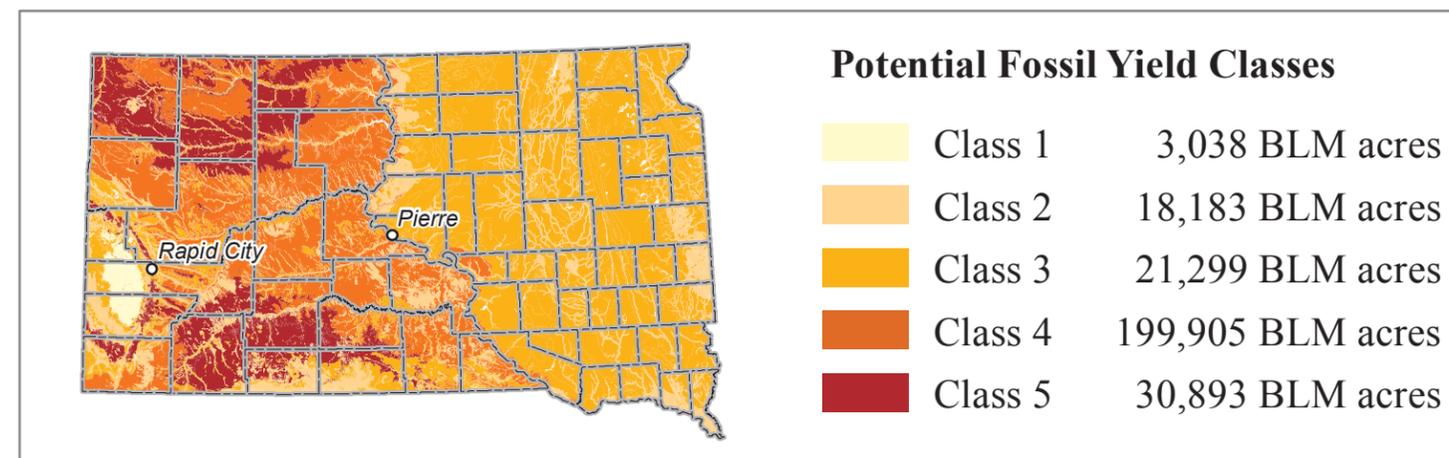
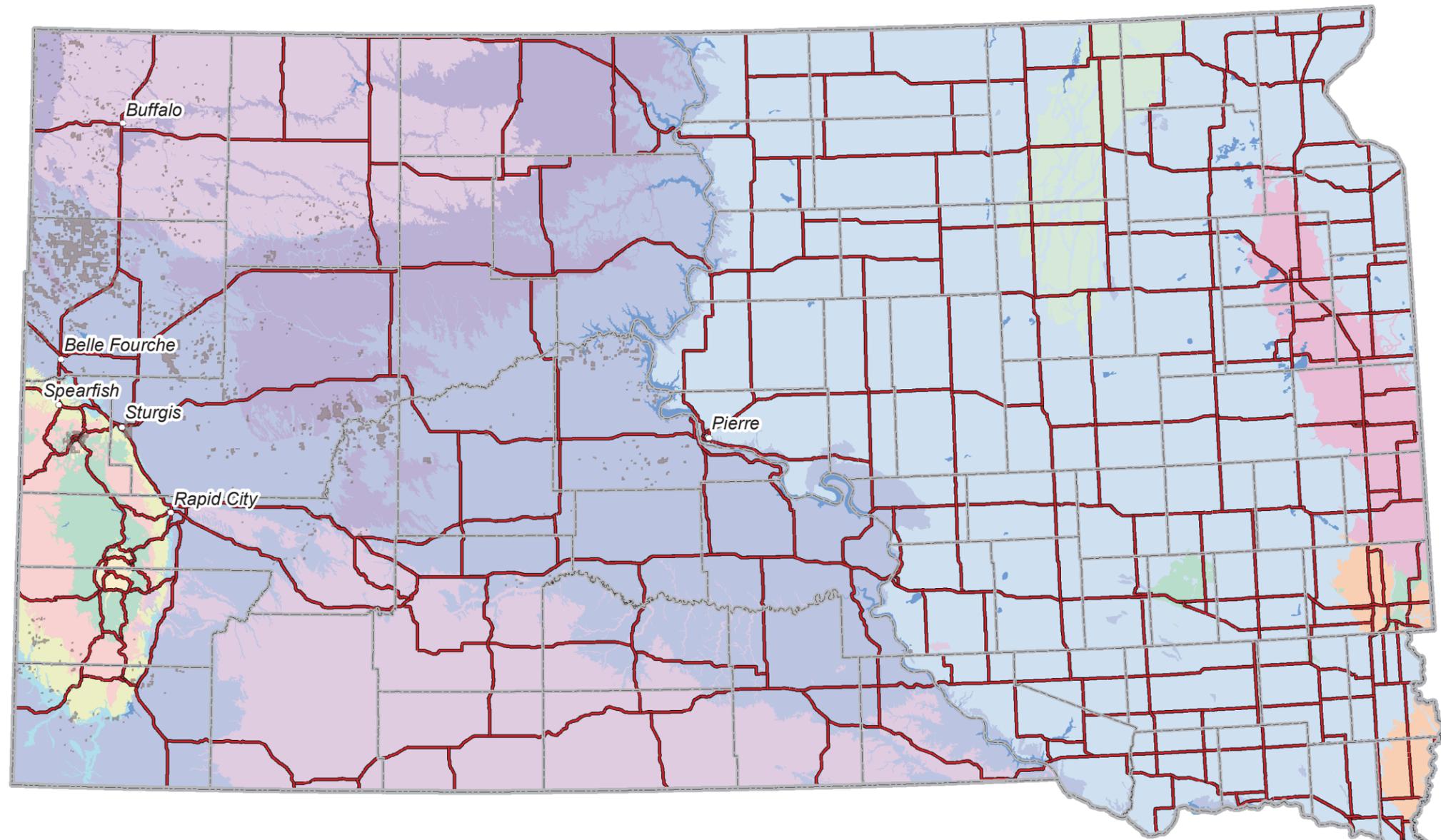
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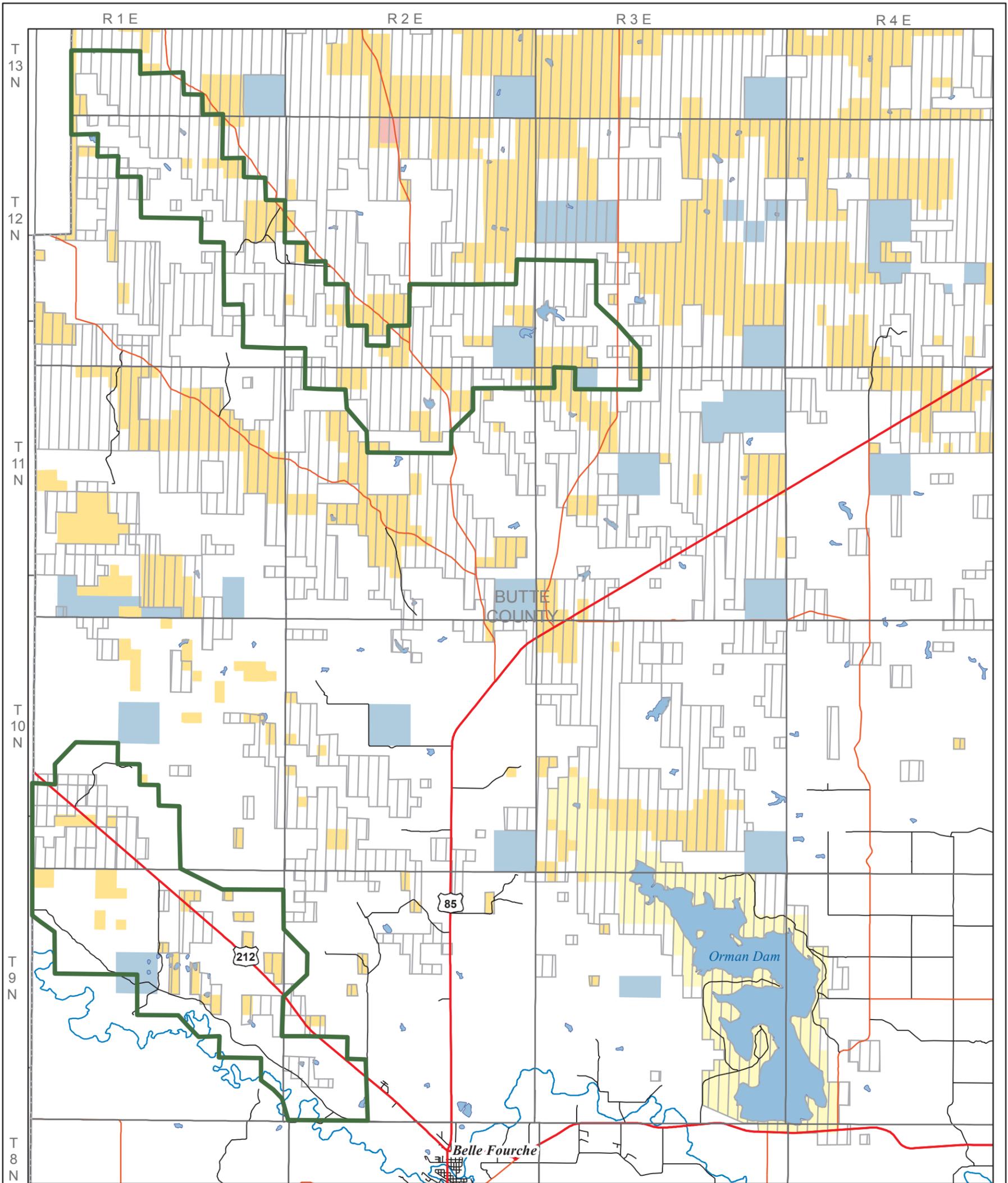
**Map 2-7:
Potential Fossil Yield Categories
and Geological Formations**

- BLM Surface Management Agency
- Highway
- County Boundary
- Water
- Geological Formations**
- Early Wisconsin Glacial Sediments
- Glacial Lake Deposit (silt, sand)
- Igneous Rocks (granite, rhyolite, phonolite)
- Illinoian Glacial Sediments
- Jurassic and Triassic (shale, sandstone, redbeds)
- Late Wisconsin Glacial Sediments
- Lower Cretaceous (limestone, shale, sandstone)
- Metamorphic Rocks (schist, slate, quartzite)
- Paleozoic (limestone, sandstone, shale)
- Tertiary (silt, sandstone, clay)
- Upper Cretaceous (sandstone, clay)
- Upper Cretaceous (shale, chalk)



0 10 20 40 60 Miles
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- | | | | |
|--|----------------------------|--|---------|
| | Areas of Interest | | BLM |
| | Locatable Federal Minerals | | BOR |
| | Highway | | COE |
| | Local Roads | | USFS |
| | Other Roads | | USFS NG |
| | Water | | Private |
| | County Boundary | | State |



Map 2-8: Bentonite Mining Areas of Interest

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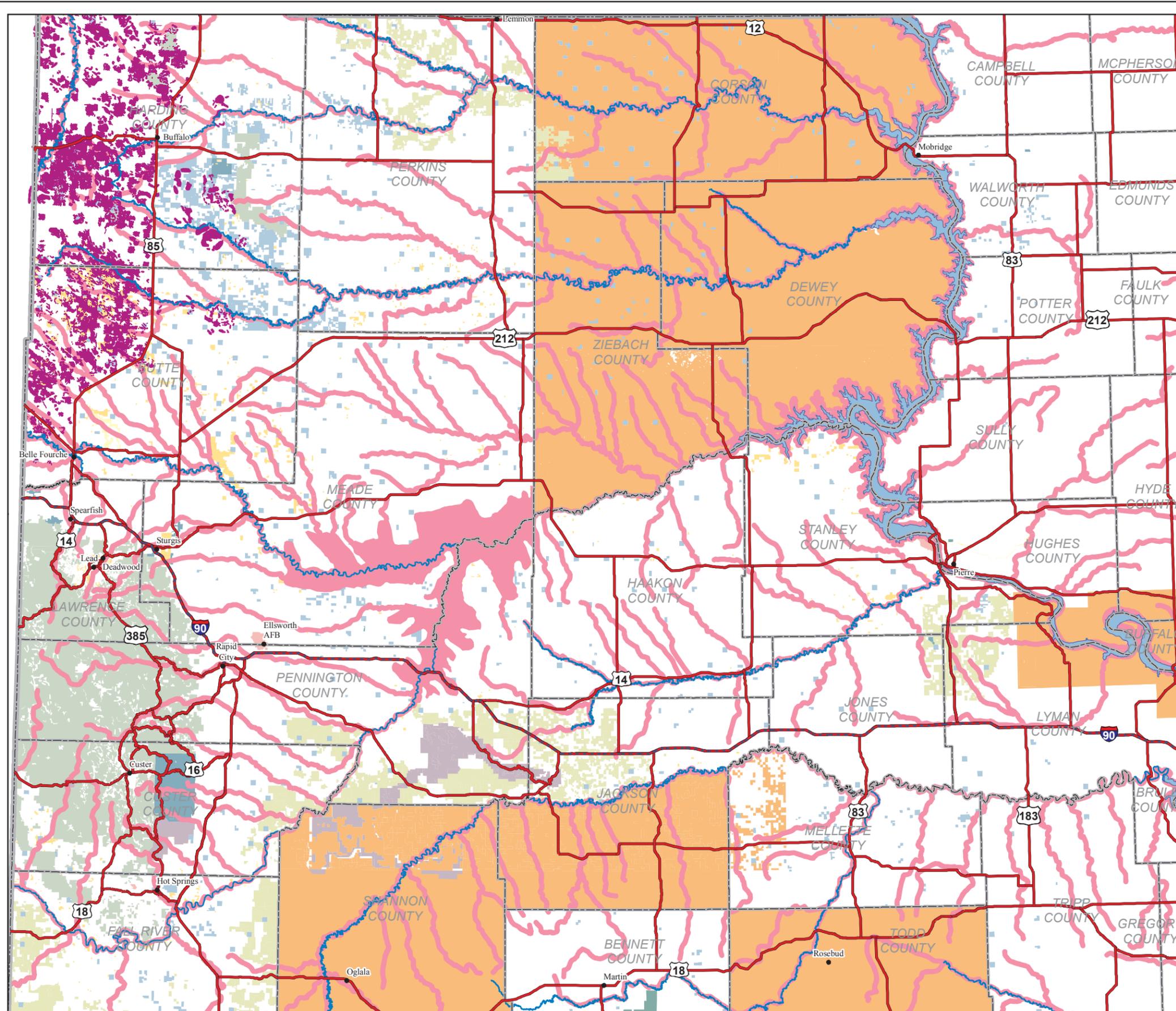
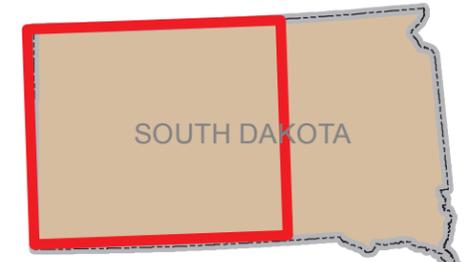
South Dakota Field Office
Final RMP/EIS

**Map 2-9:
Greater Sage-Grouse and
Big Game Wintering Areas**

- Critical Winter Range for Sage-grouse
- Wintering Areas
- Limited Access Highway
- Highway
- County Boundaries
- Bureau of Land Management
- Bureau of Reclamation
- Bureau of Indian Affairs
- Military Reservations/Corps of Engineers
- National Forest Lands
- National Grasslands
- National Park Service
- Private Lands
- State Game, Fish, and Parks
- State Lands
- USFW Service, National Wildlife Refuges
- Water

0 10 20 40 Miles
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Montana Custom Albers (NAD 1983) Projection

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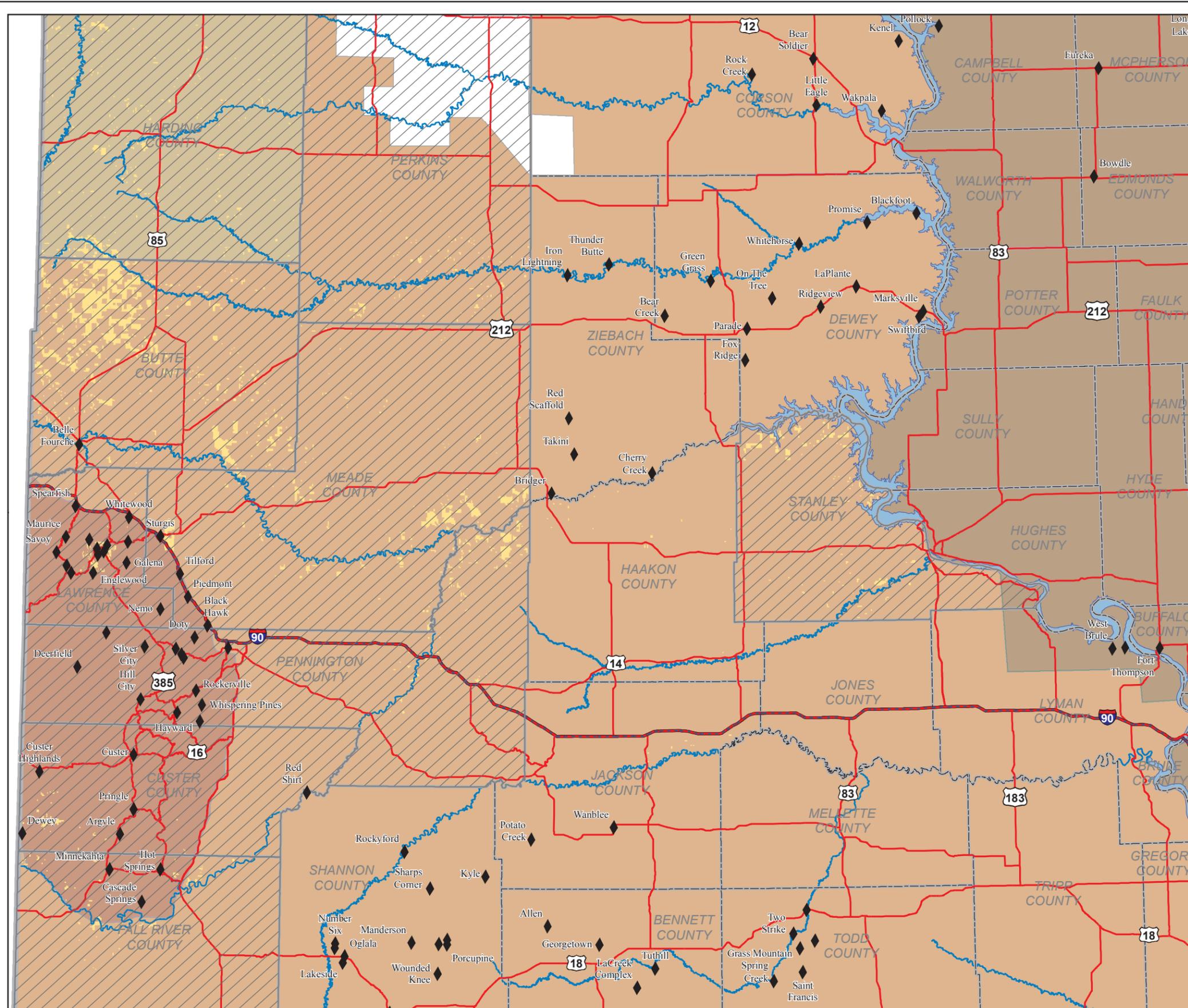
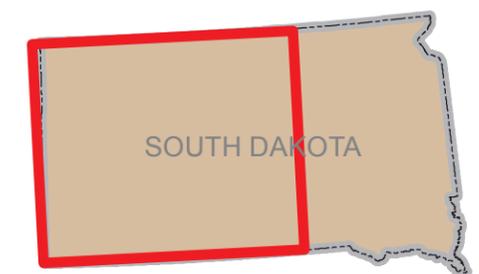
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**Map 2-10:
South Dakota Fire Planning**

- ◆ Communities at Risk
- ▨ Counties with Complete CWPP
- Fire Planning Units**
- Miles City FPU
- Black Hills FPU
- Prairie FPU
- Eastern FPU
- Limited Access Highway
- Highway
- ▭ County Boundaries
- Water
- BLM Surface Management Agency

0 5 10 20 30 Miles
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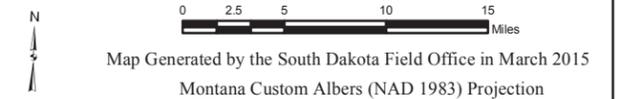
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**Map 2-11:
BLM Grazing Allotments, South Dakota
Area 1**

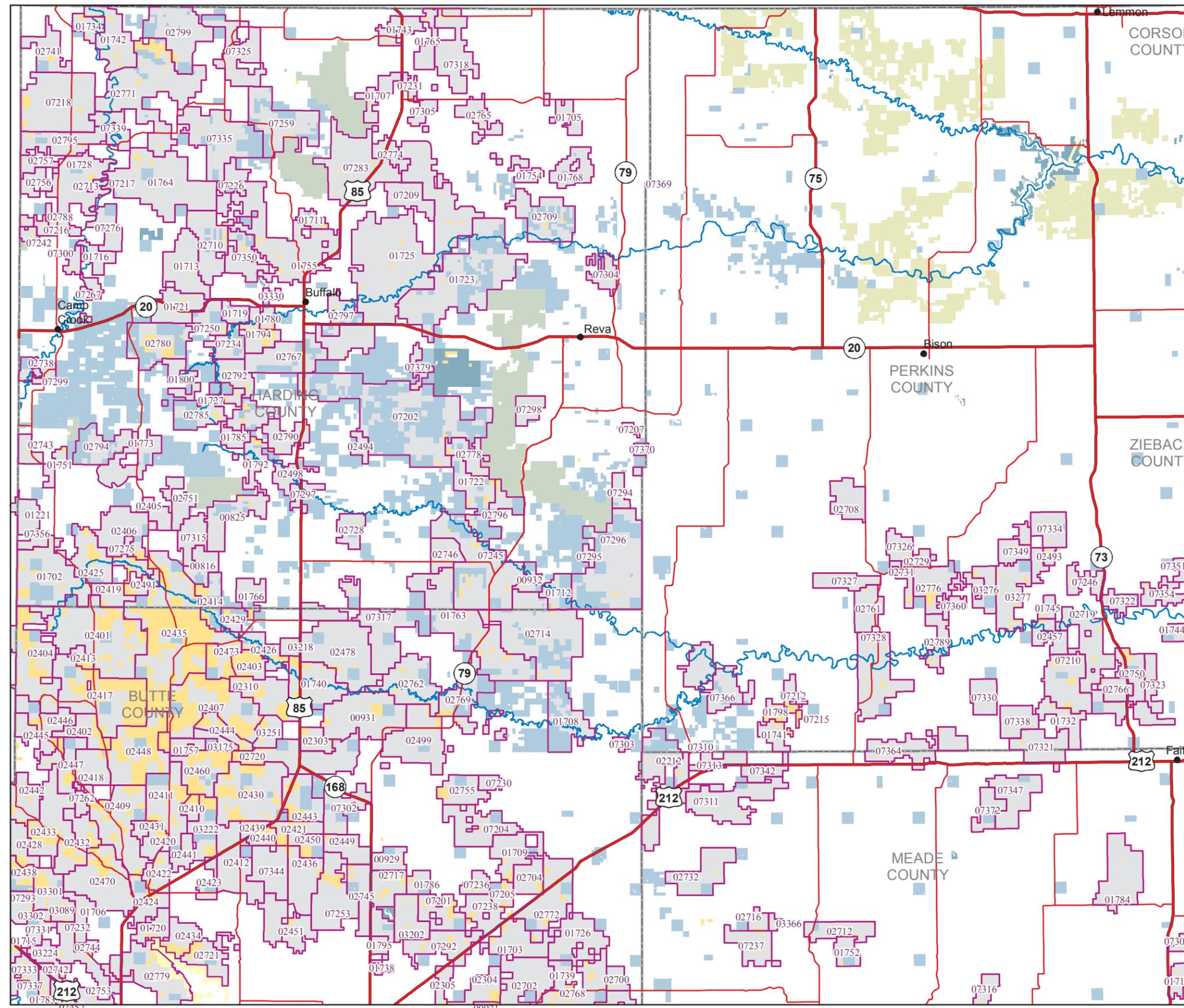
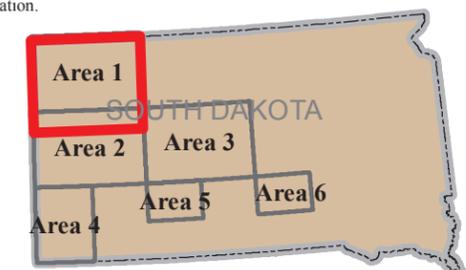
- Grazing Allotment
- Limited Access Highway
- Highway
- Local Roads
- County Boundary
- BLM
- BOR
- BIA
- COE
- USFS
- USFS NG
- Private
- State GFP
- State

Activity or implementation planning extends the resource and land use decisions of the RMP into site-specific management decisions for smaller geographic units of public lands within the RMP planning area. Activity planning includes such elements as grazing plans, habitat management plans (HMPs), and interdisciplinary or coordinated activity plans. Through these plans, the BLM issues various land and resource use authorizations, identifies specific mitigation needs, and develops and implements other similar plans and actions.

All management direction or actions developed as part of the BLM planning process are subject to valid rights and must meet the objectives of the BLM's multiple use management mandate and responsibilities (FLPMA Section 202[c] and [e]). Valid rights include all valid leases, permits, patents, rights-of-way (ROW), or other land use rights or authorizations existing on the date of the approval of



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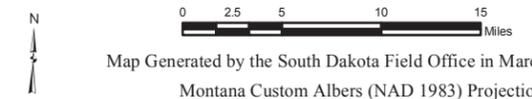
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**Map 2-12:
BLM Grazing Allotments, South Dakota
Area 2**

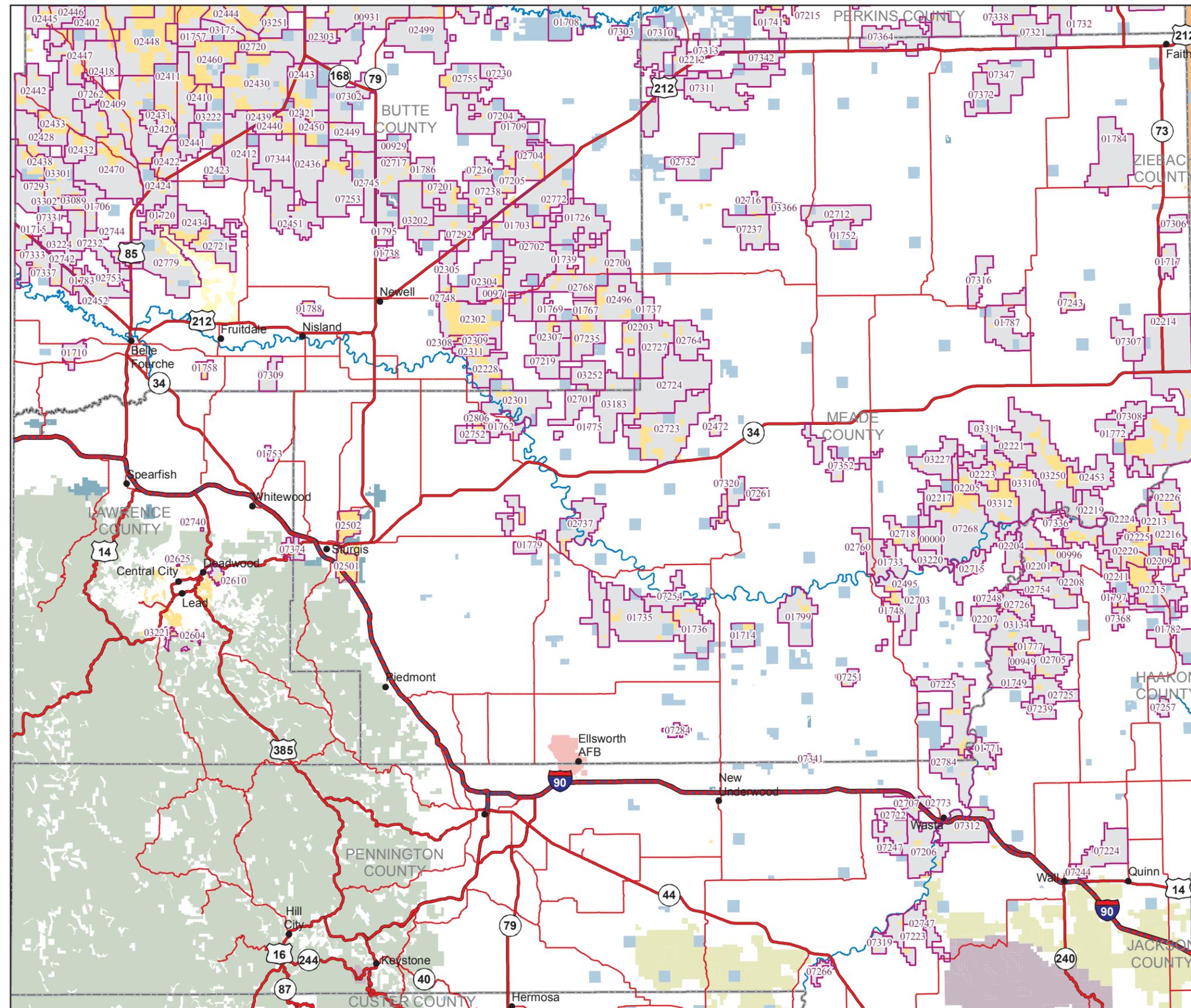
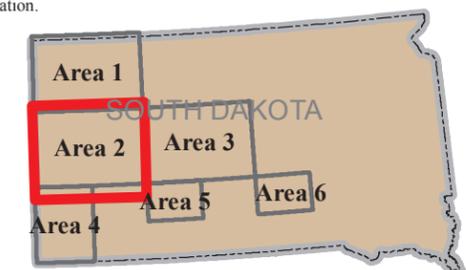
- Grazing Allotment
- Limited Access Highway
- Highway
- Local Roads
- County Boundary
- BLM
- BOR
- BIA
- COE
- USFS
- USFS NG
- NPS
- Private
- State GFP
- State

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**Map 2-13:
BLM Grazing Allotments, South Dakota
Area 3**

- Grazing Allotment
- Limited Access Highway
- Highway
- Local Roads
- County Boundary
- BLM
- BOR
- BIA
- COE
- USFS NG
- NPS
- Private
- State GFP
- State
- USFW NWR

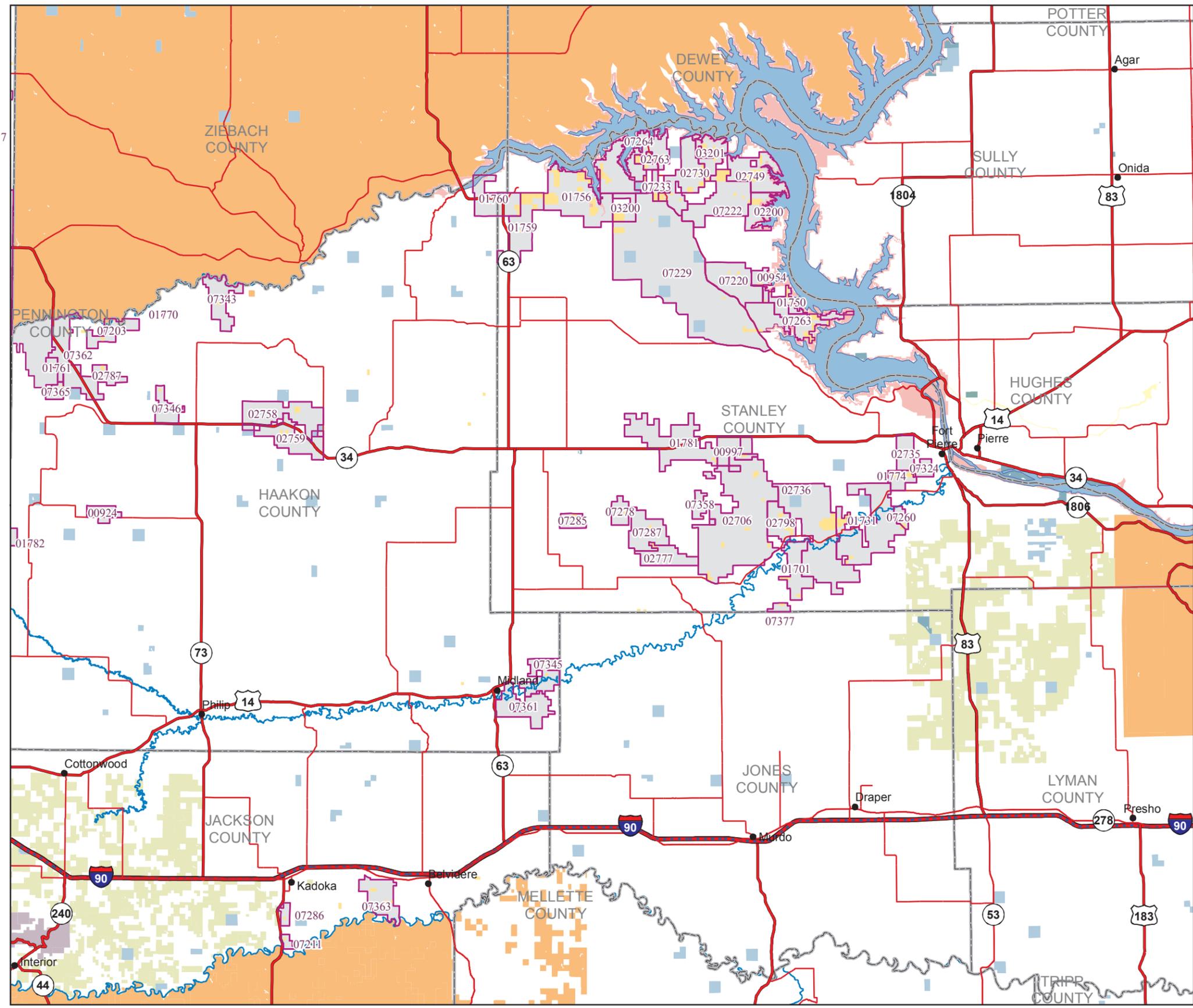
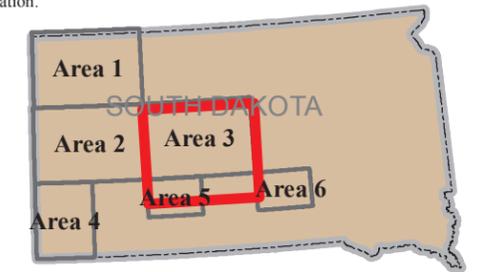
Activity or implementation planning extends the resource and land use decisions of the RMP into site-specific management decisions for smaller geographic units of public lands within the RMP planning area. Activity planning includes such elements as grazing plans, habitat management plans (HMPs), and interdisciplinary or coordinated activity plans. Through these plans, the BLM issues various land and resource use authorizations, identifies specific mitigation needs, and develops and implements other similar plans and actions.

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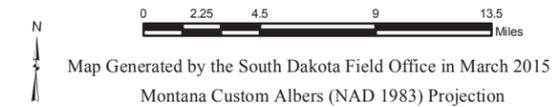
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**Map 2-14:
BLM Grazing Allotments, South Dakota
Areas 4, 5, and 6**

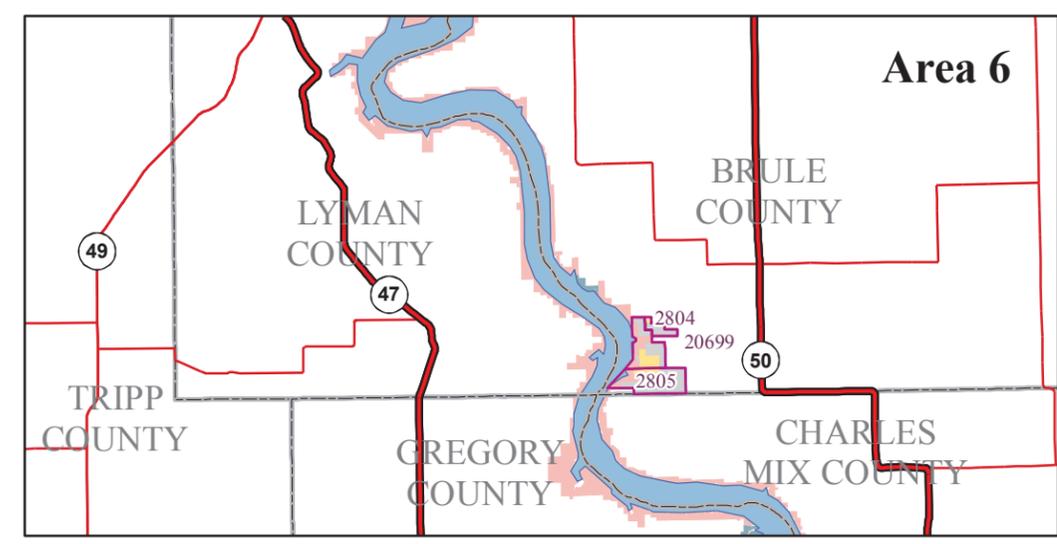
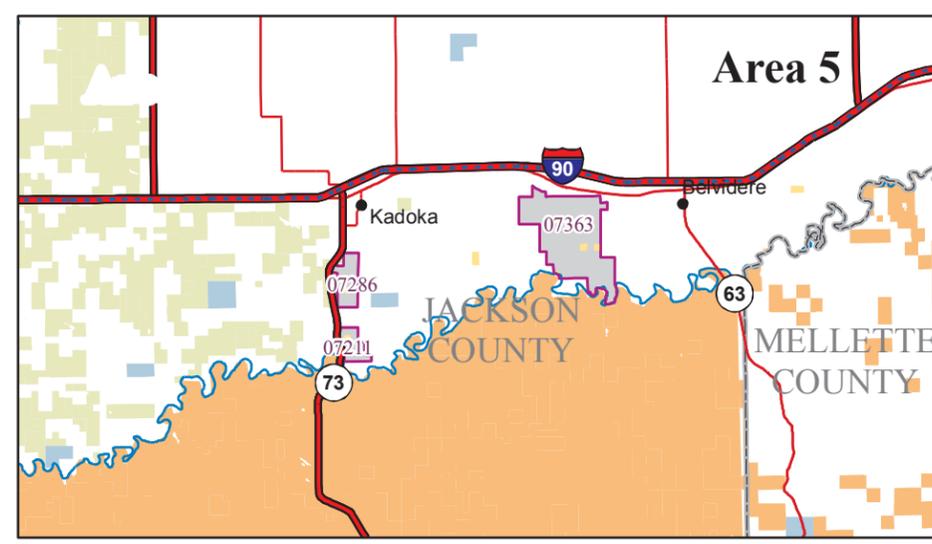
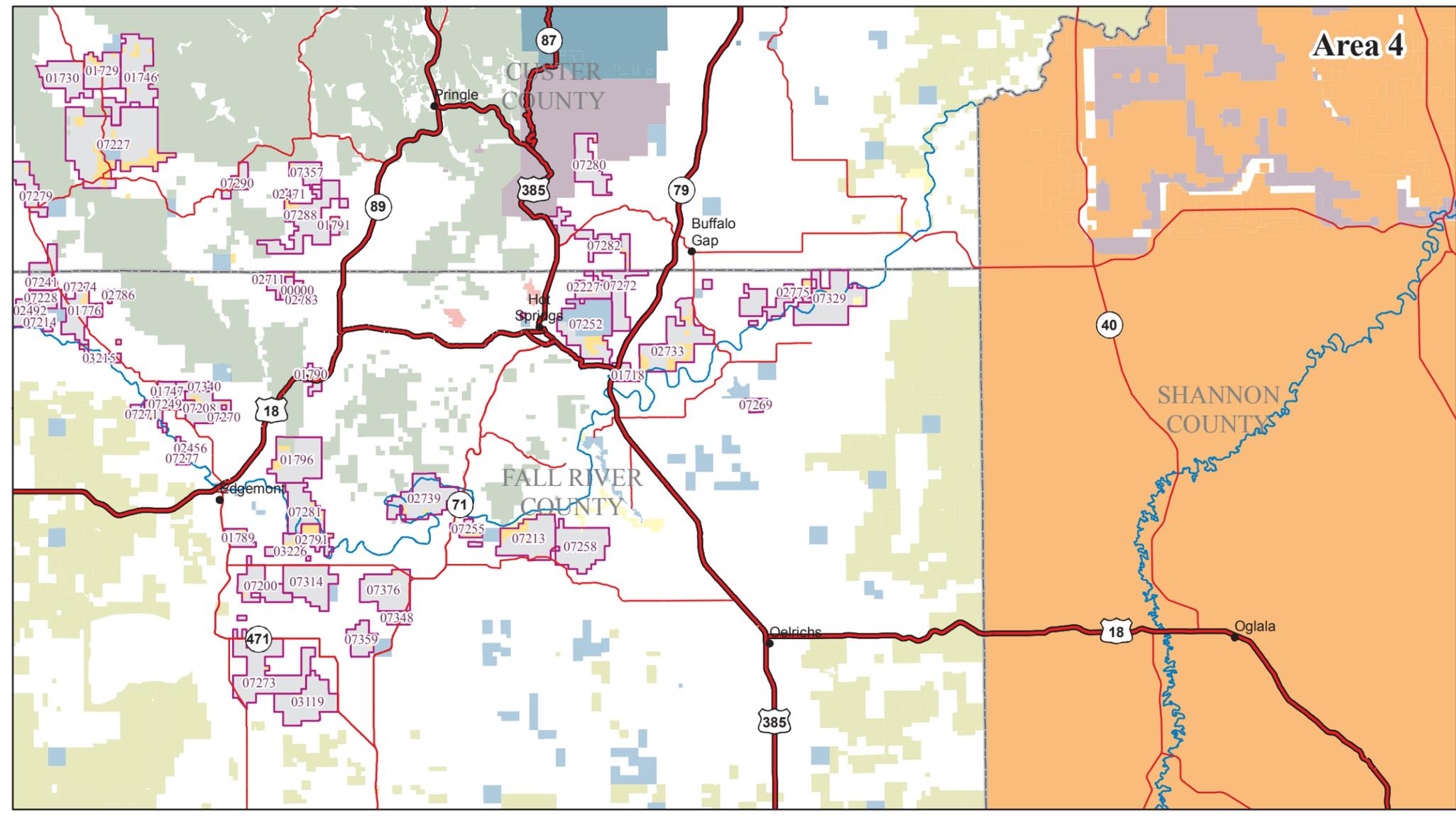
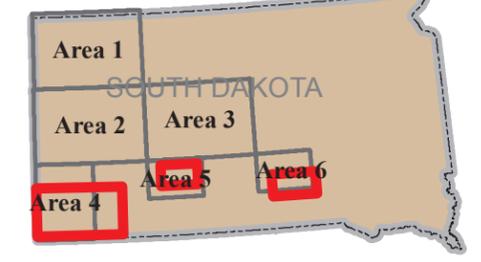
- Grazing Allotment
- Limited Access Highway
- Highway
- Local Roads
- County Boundary
- BLM
- BOR
- BIA
- COE
- USFS
- USFS NG
- NPS
- Private
- State GFP
- State
- USFW NWR
- Water

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Map 2-15:
Available Rights-of-Way
on BLM-Administered Lands
Alternative A

Rights-of-Way Restrictions

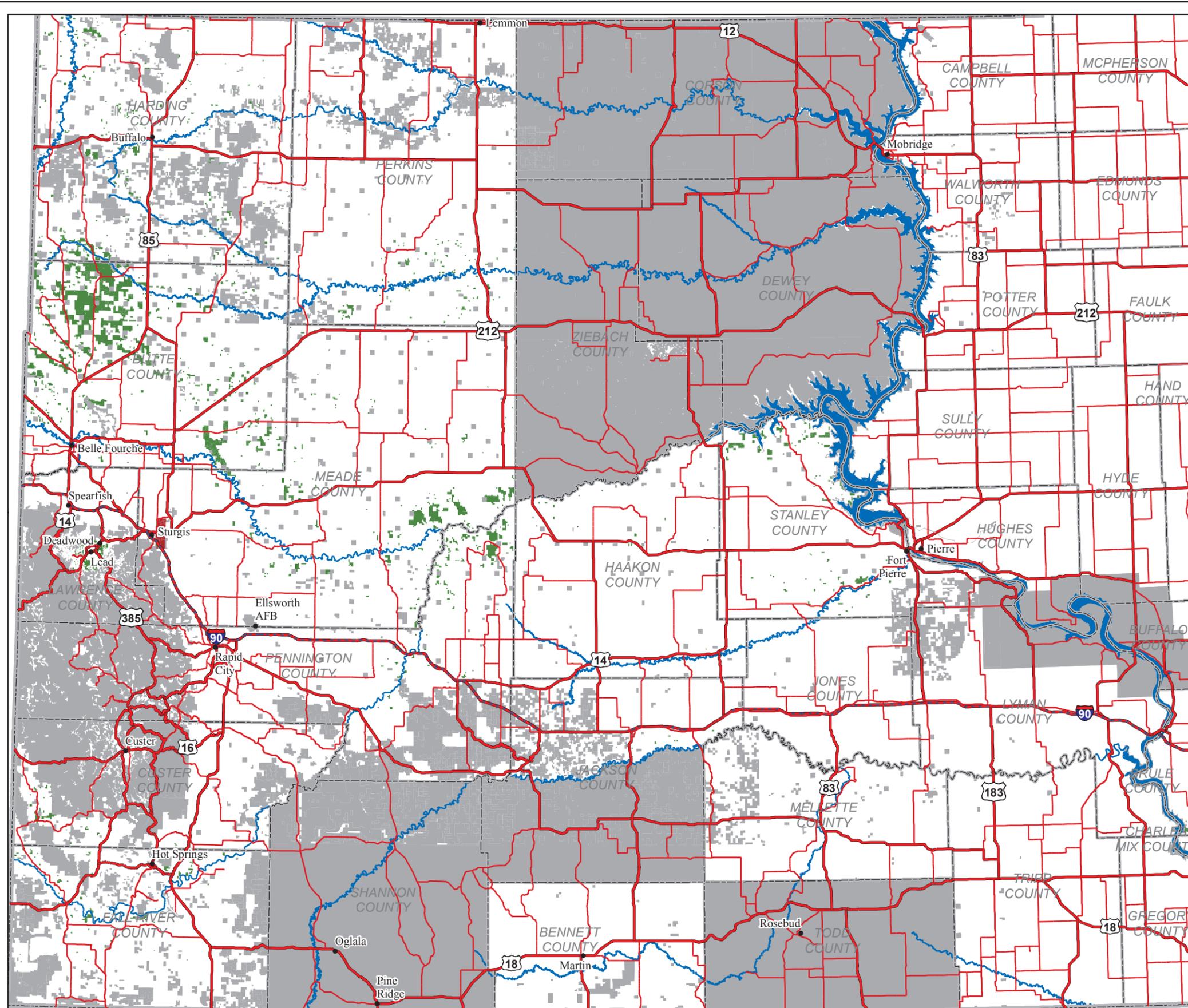
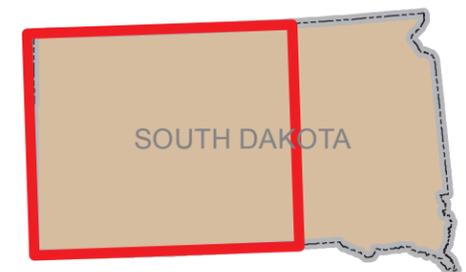
- Exclude
- Open
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Tribal, State, and other Federal
- Private
- Water

BLM only has jurisdiction within BLM-administered surface management agency lands.



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Map 2-16:
Available Rights-of-Way
on BLM-Administered Lands
Alternative B

Rights-of-Way Restrictions

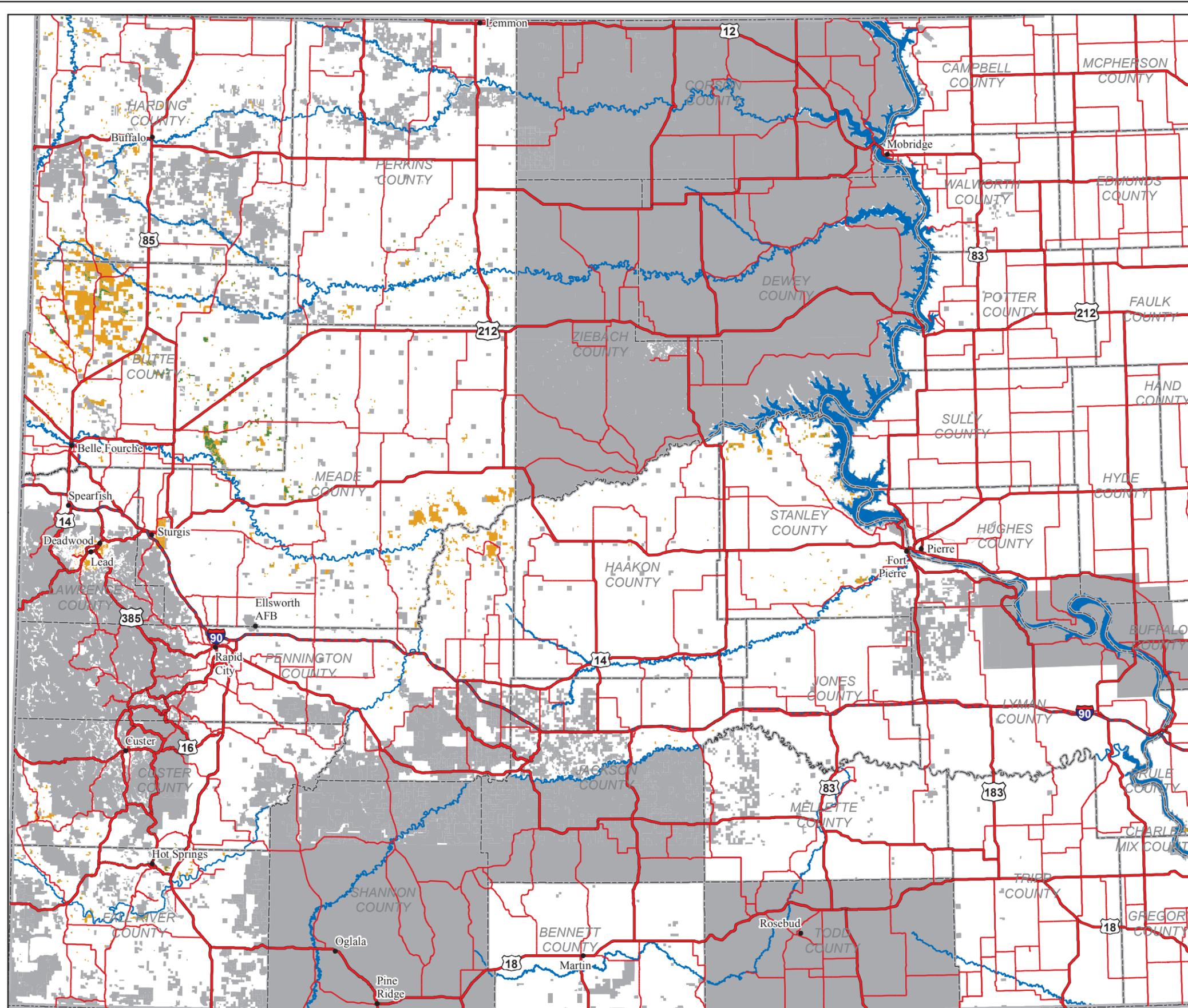
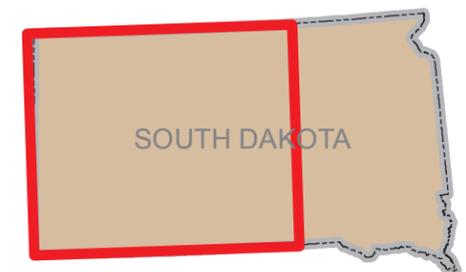
- Avoid
- Open
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Tribal, State, and other Federal
- Private
- Water

BLM only has jurisdiction within BLM-administered surface management agency lands.



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Map 2-17:
Available Rights-of-Way
on BLM-Administered Lands
Alternative C

Rights-of-Way Restrictions

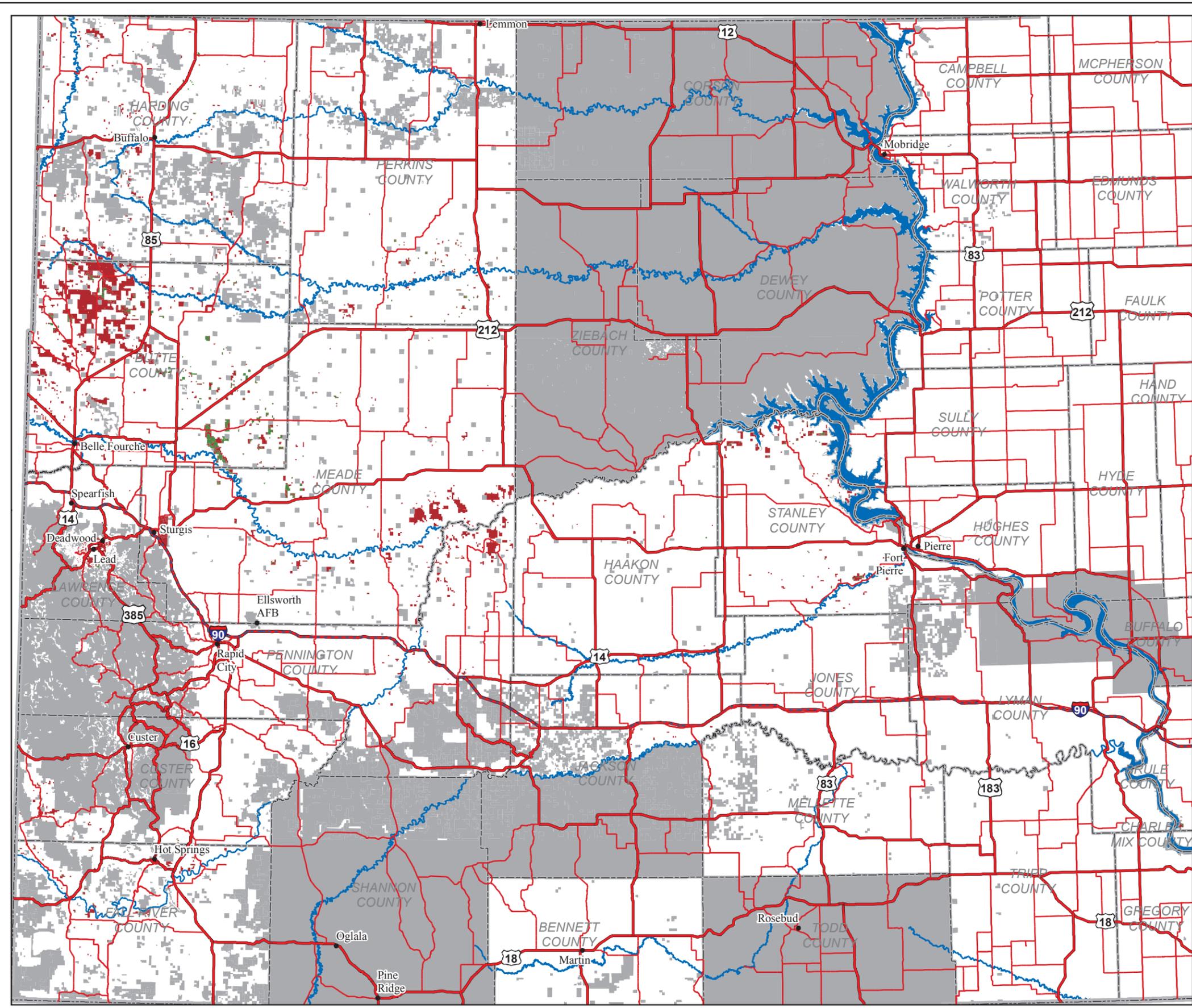
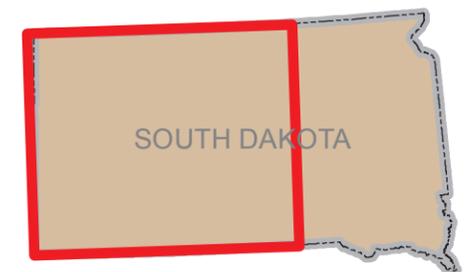
- Exclude
- Open
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Tribal, State, and other Federal
- Private
- Water

BLM only has jurisdiction within BLM-administered surface management agency lands.



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Map 2-18:
Available Rights-of-Way
on BLM-Administered Lands
Alternative D

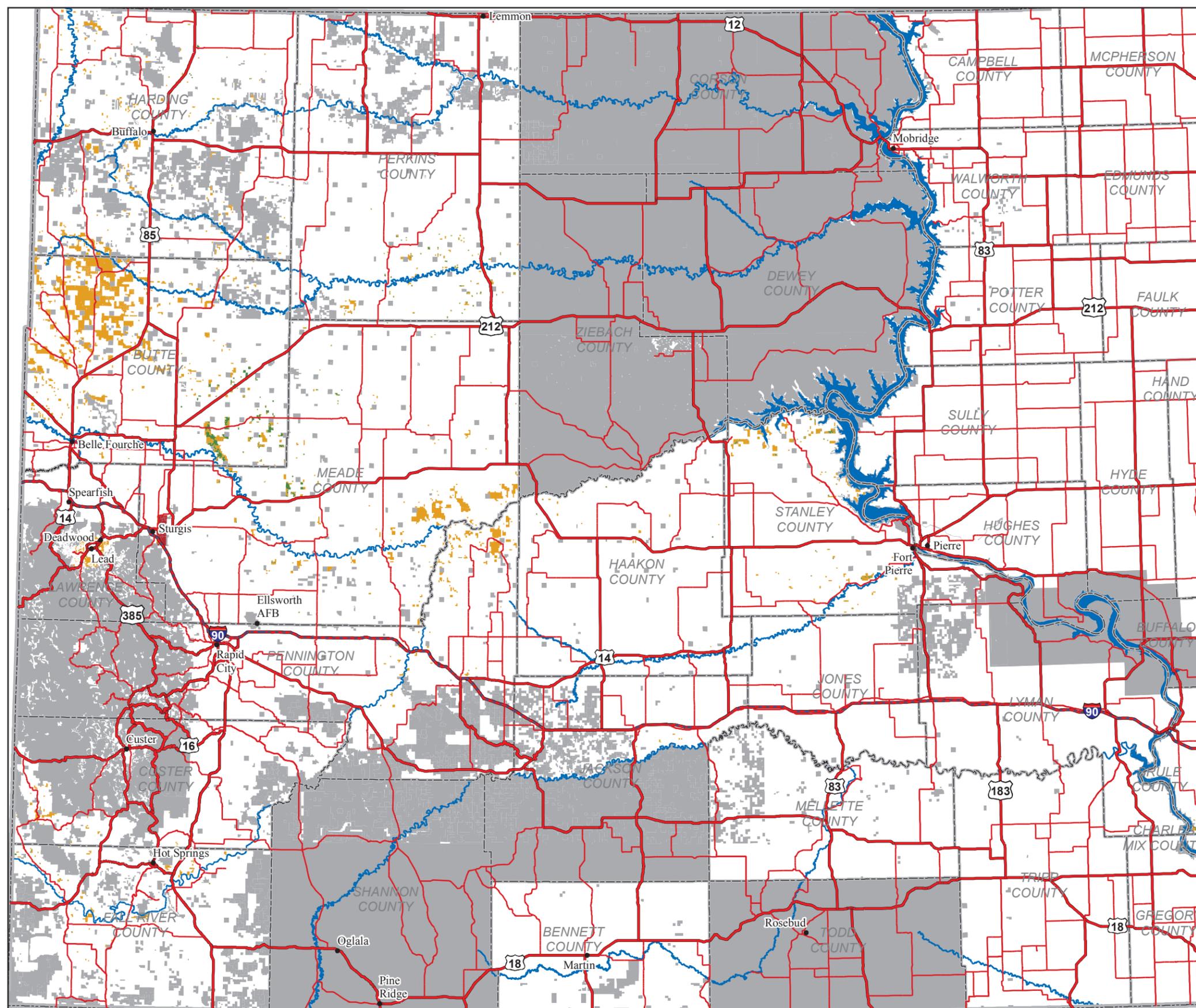
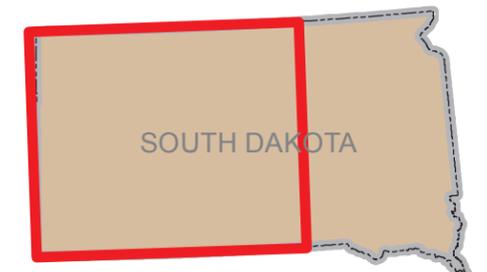
Rights-of-Way Restrictions

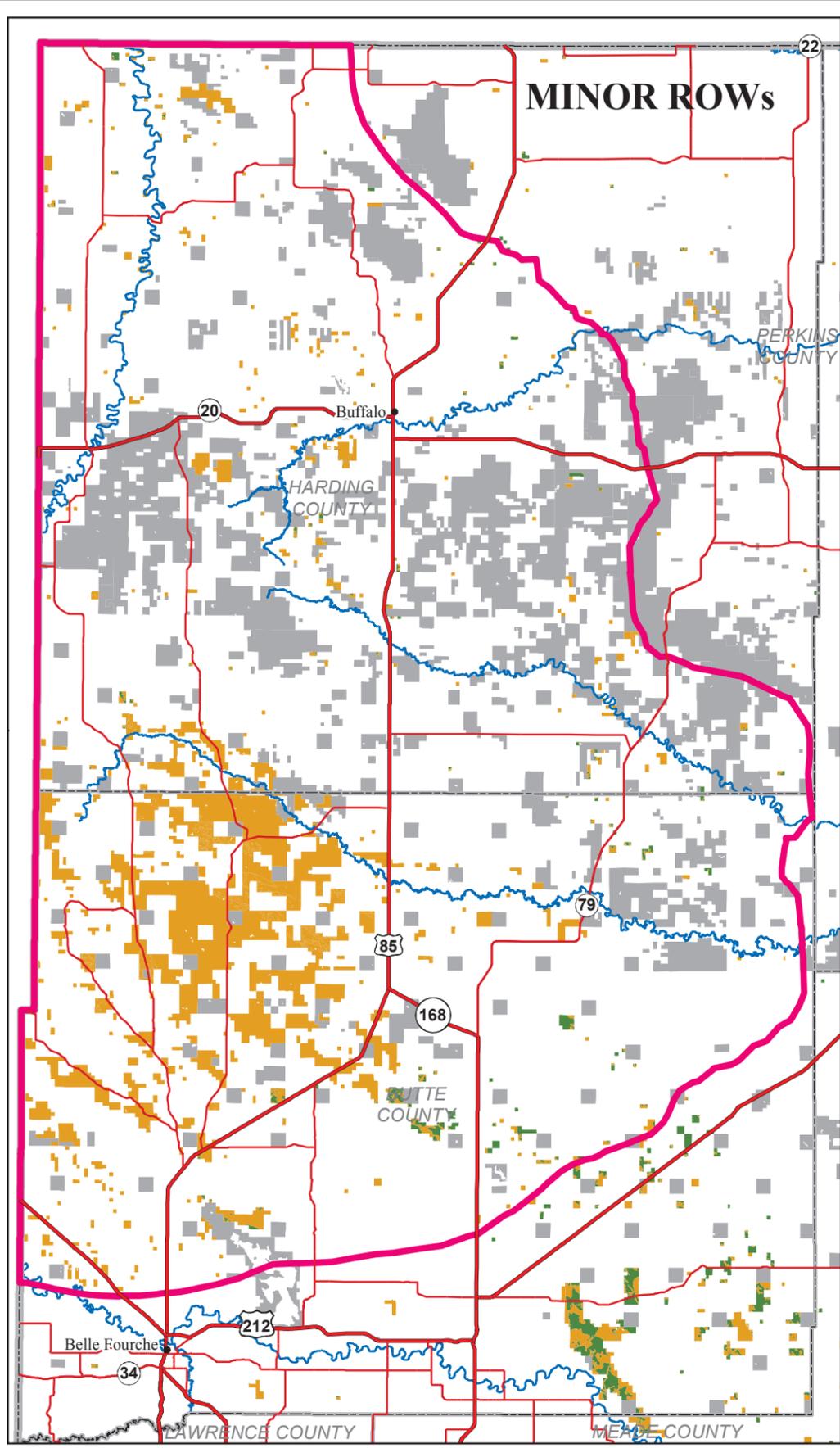
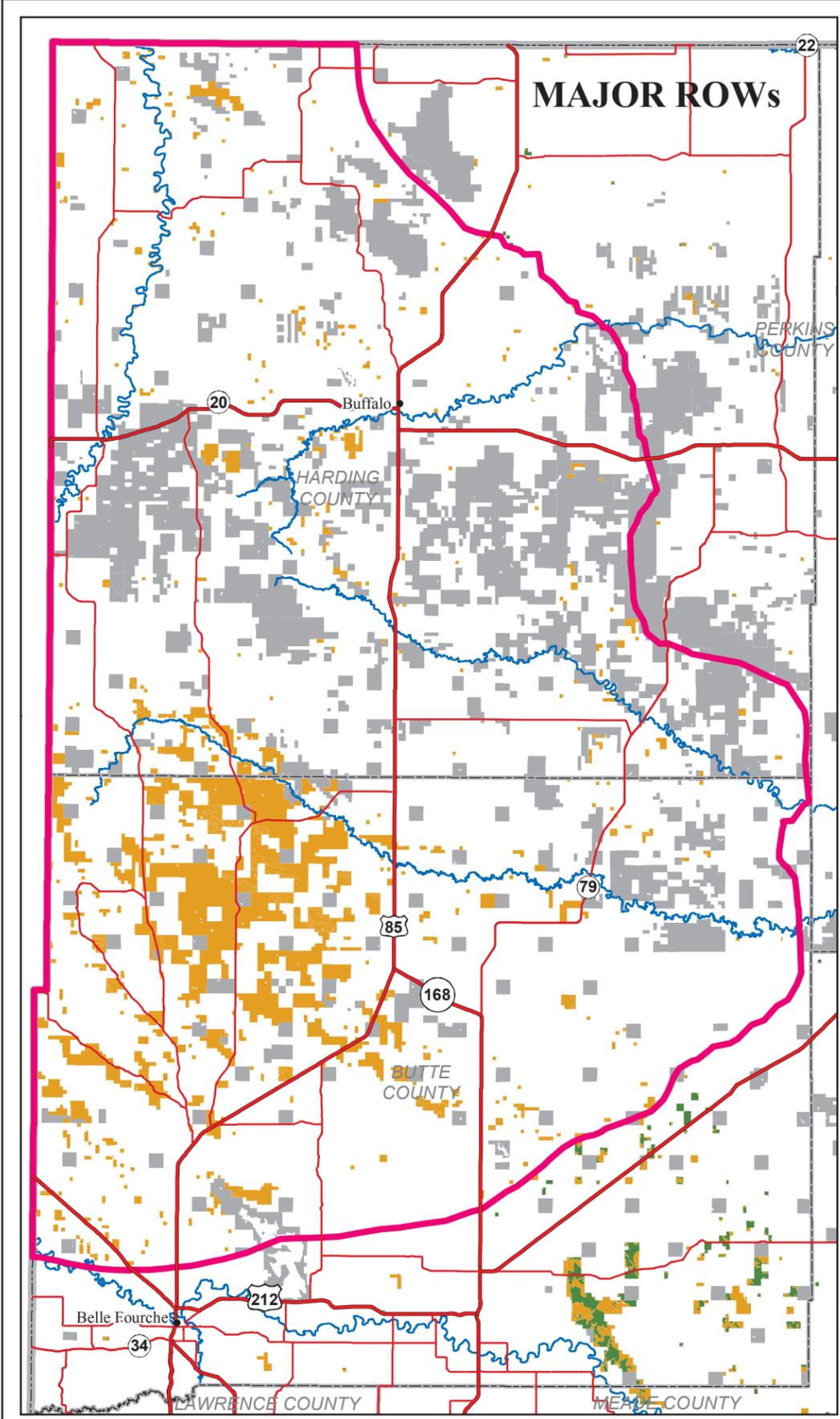
- Exclude
- Avoid
- Open
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Tribal, State, and other Federal
- Private
- Water

BLM only has jurisdiction within BLM-administered surface management agency lands.

0 10 20 40 Miles
Map Generated by the South Dakota Field Office in March 2015
Montana Custom Albers (NAD 1983) Projection

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Map 2-19:
Available Rights-of-Way
on BLM-Administered Lands
Alternative D
Major vs Minor ROWs
within Sage-grouse Habitat

- Sage-grouse Habitat (PHMA and GHMA)
- Rights-of-Way Restrictions**
- Avoid
- Open
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Tribal, State, and other Federal
- Private
- Water

BLM only has jurisdiction within BLM-administered surface management agency lands.

0 5 10 20 Miles
Map Generated by the South Dakota Field Office in March 2015
Montana Custom Albers (NAD 1983) Projection

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**Map 2-20:
Wind Energy Potential
on BLM-Administered Lands**

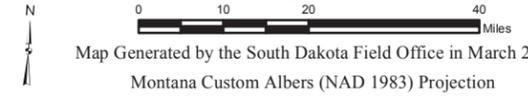
Wind Power Class (BLM surface acres)

1 Poor	(4,502)
2 Marginal	(18,728)
3 Fair	(39,910)
4 Good	(126,553)
5 Excellent	(82,127)
6 Outstanding	(556)
7 Super	(941)
— Limited Access Highway	
— Highway	
— Local Roads	
— Tribal, State, and other Federal	
— Private	
— Water	

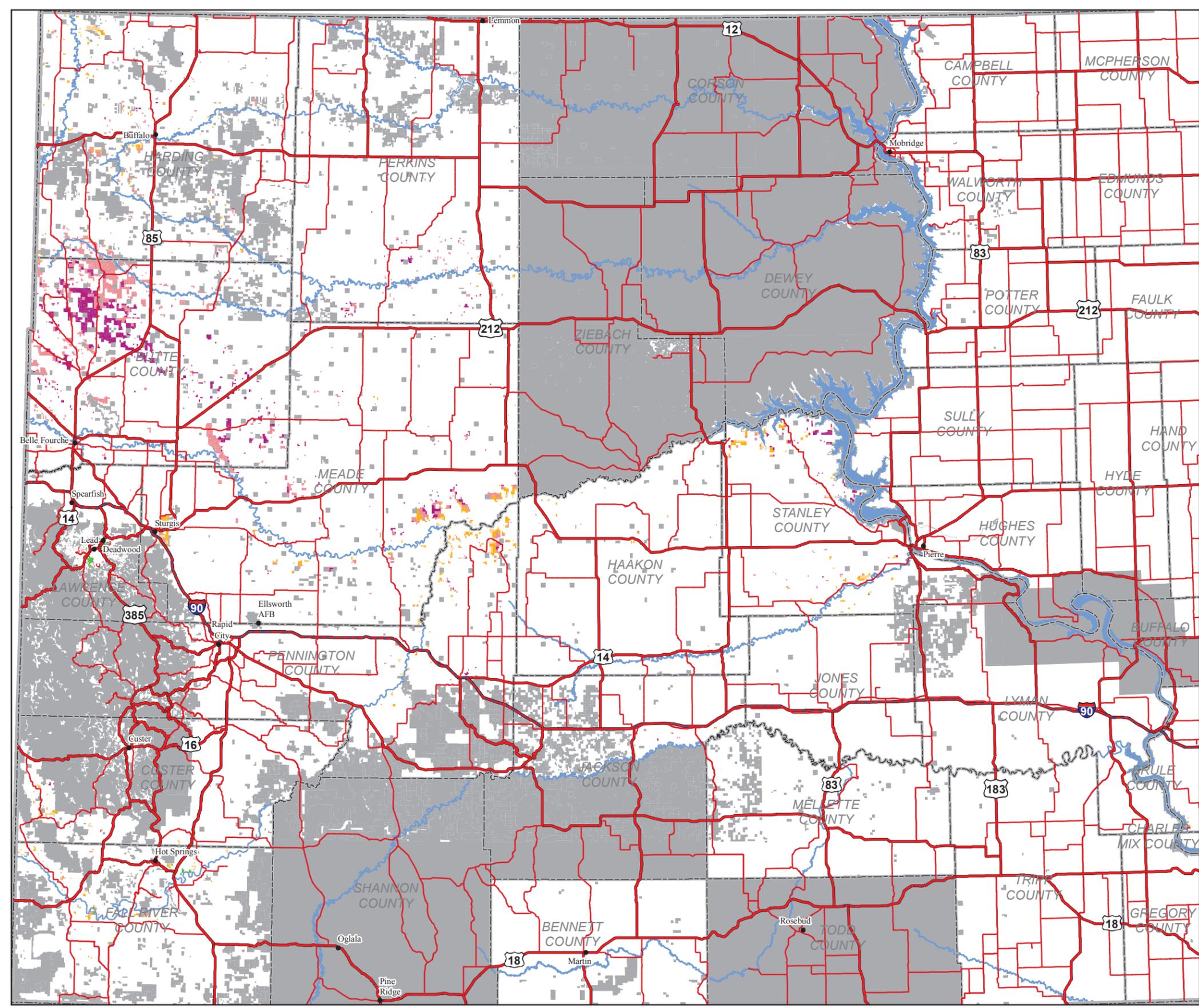
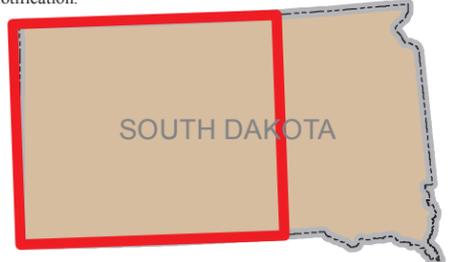
BLM only has jurisdiction within BLM-administered surface management agency lands.

Wind Power estimates are derived from data gathered at 50 meters above ground. Source: National Renewable Energy Lab (NREL)

Class 1-2 is considered low potential by BLM.
Class 3 is considered moderate potential by BLM.
Classes 4-7 is considered high potential by BLM.



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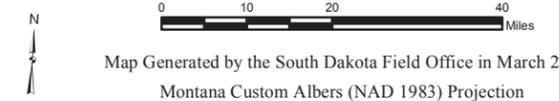


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Map 2-21:
Wind Energy Allocation
Alternative A

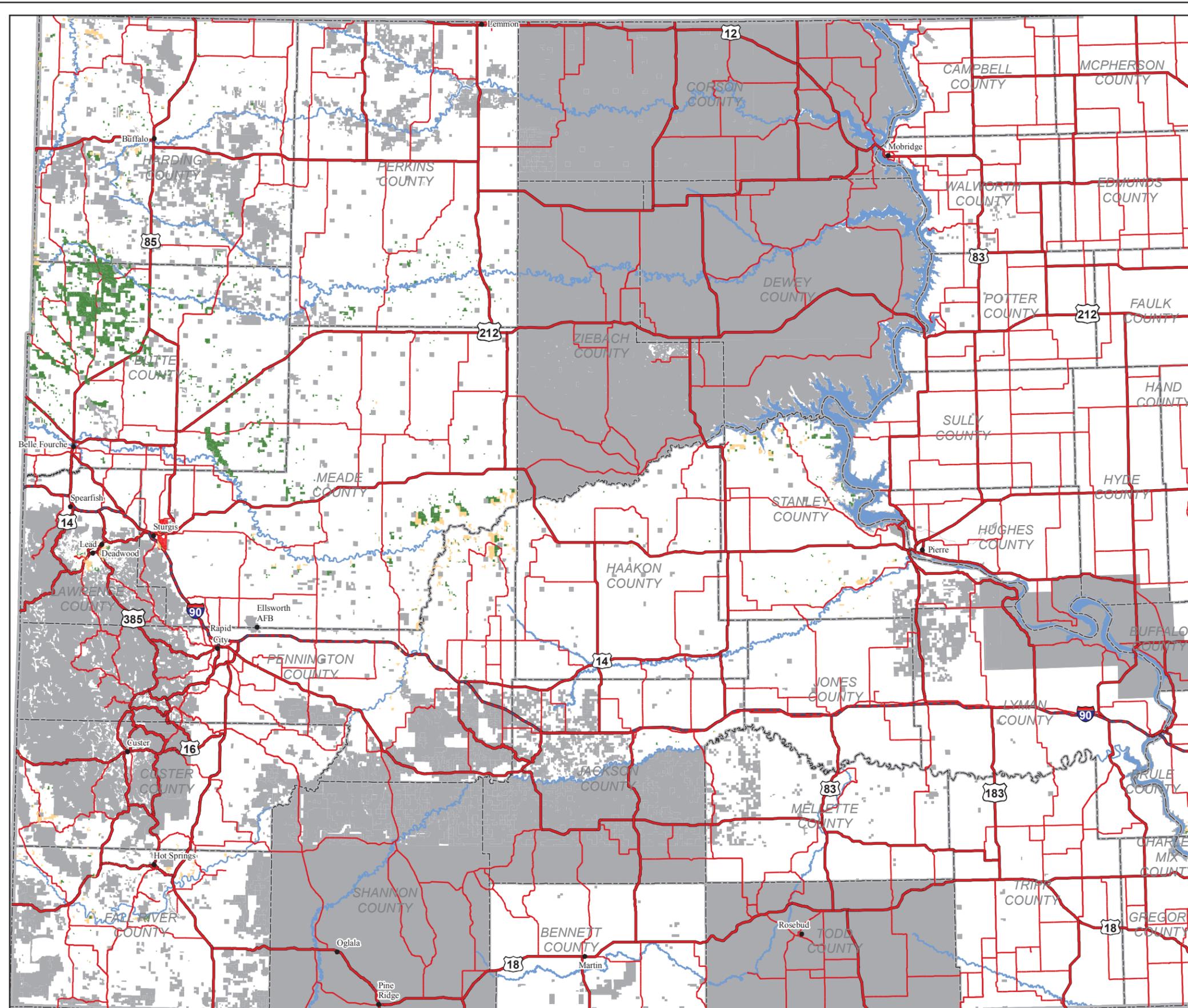
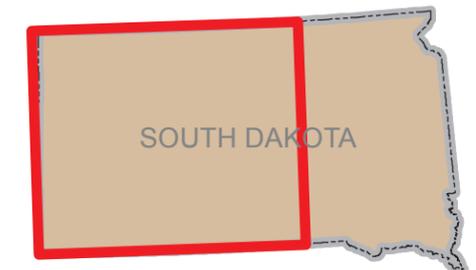
- BLM-admin lands with developmental restrictions
- Open Areas - Class 1-3
- Open Areas - Class 4-7 (Potential Wind Development Areas)
- Exclusion Areas
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Tribal, State, and other Federal
- Private
- Water

BLM only has jurisdiction within BLM-administered surface management agency lands.



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Map 2-22:
Wind Energy Allocation
Alternative B

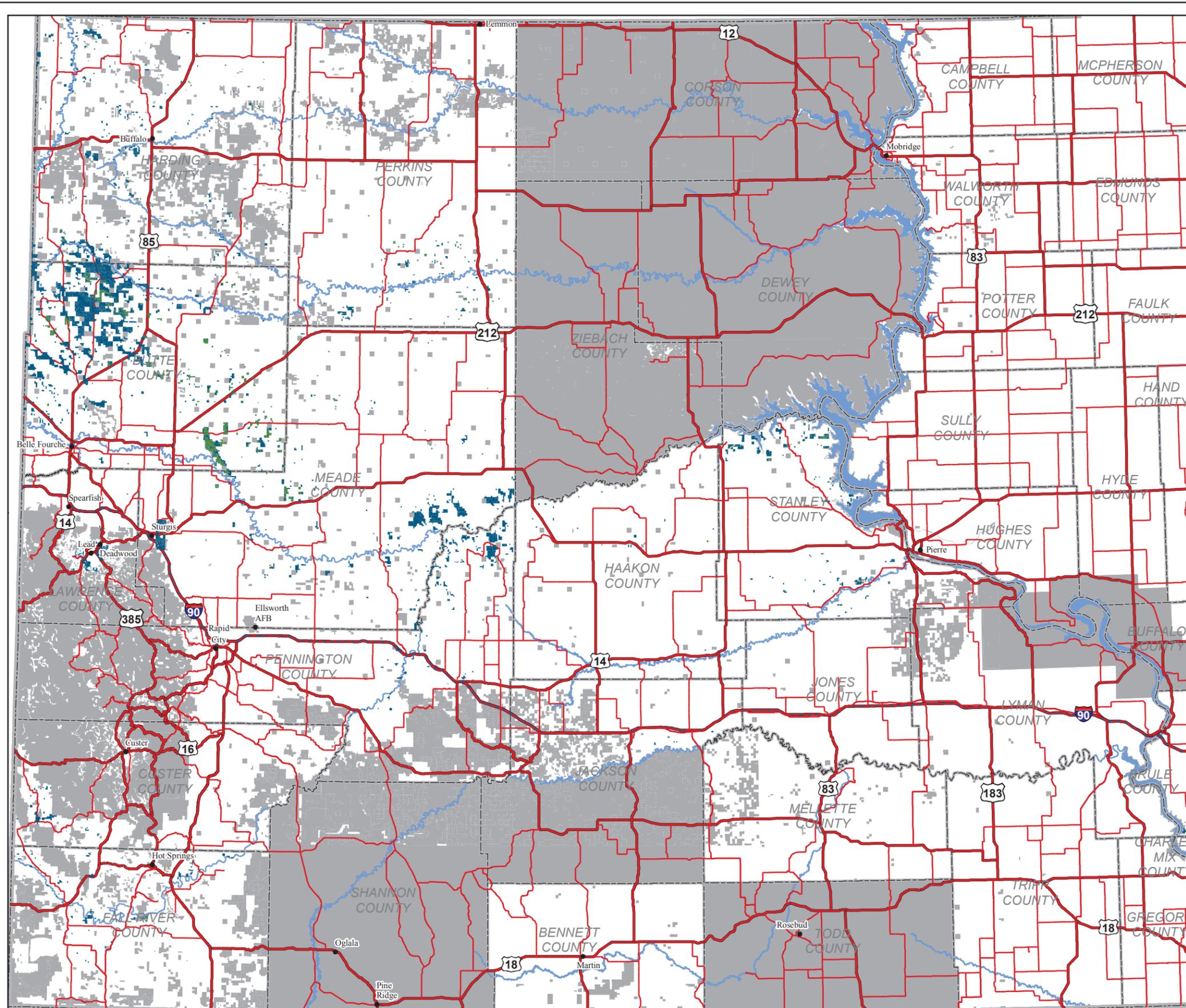
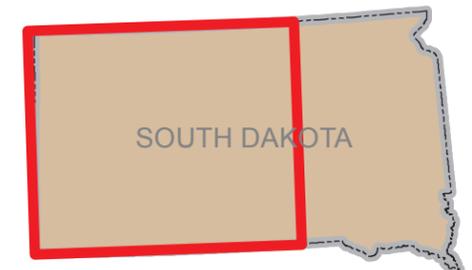
- BLM-admin lands with developmental restrictions
- Open Areas - Class 1-3
- Open Areas - Class 4-7
(Potential Wind Development Areas)
- Avoidance Areas
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Tribal, State, and other Federal
- Private
- Water

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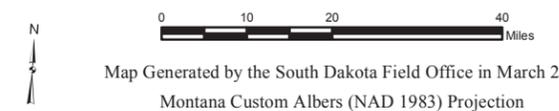


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Map 2-23:
Wind Energy Allocation
Alternative C

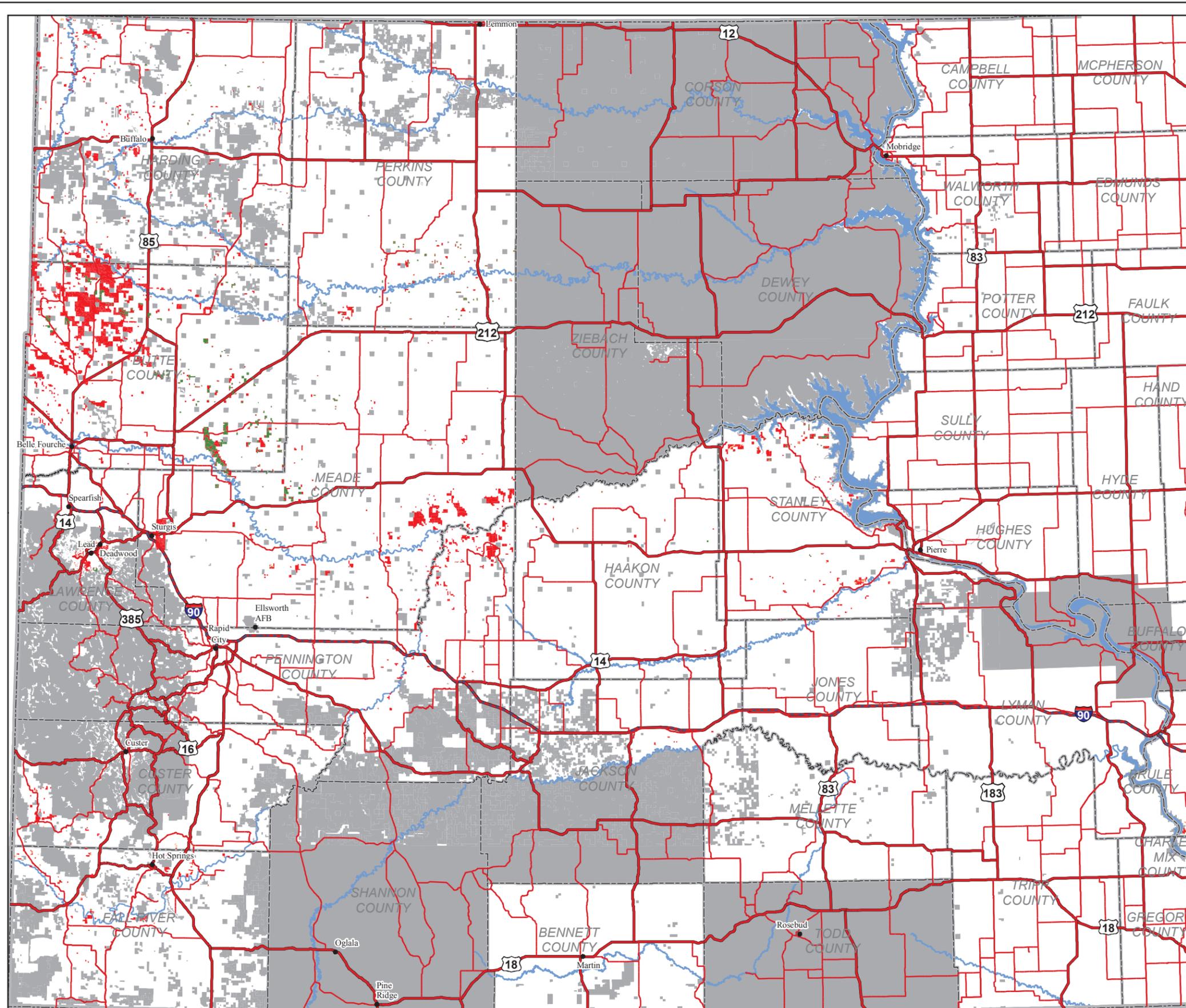
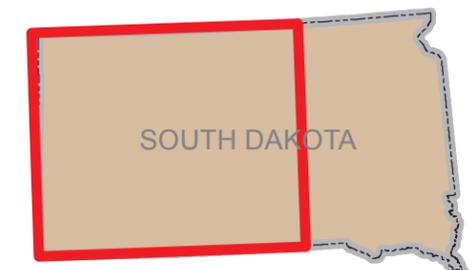
- BLM-admin lands with developmental restrictions
- Open Areas - Class 1-3
- Open Areas - Class 4-7 (Potential Wind Development Areas)
- Exclusion Areas
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Tribal, State, and other Federal
- Private
- Water

BLM only has jurisdiction within BLM-administered surface management agency lands.



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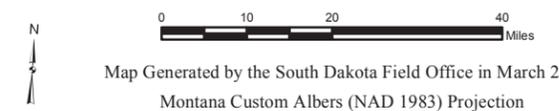
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Map 2-24:
Wind Energy Allocation
Alternative D

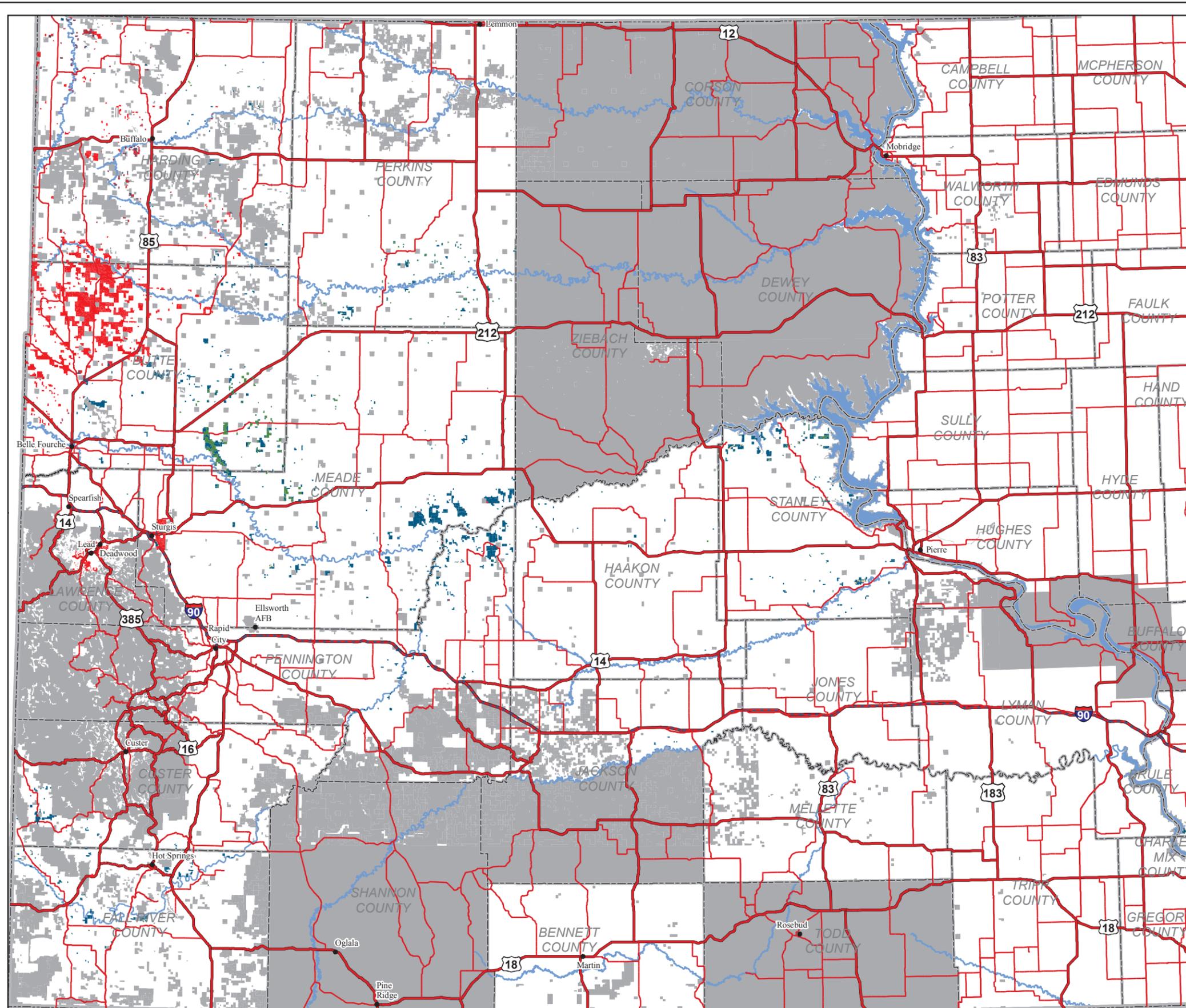
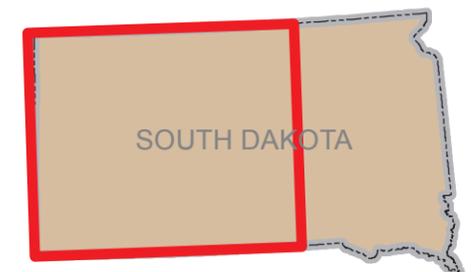
BLM-admin lands with developmental restrictions

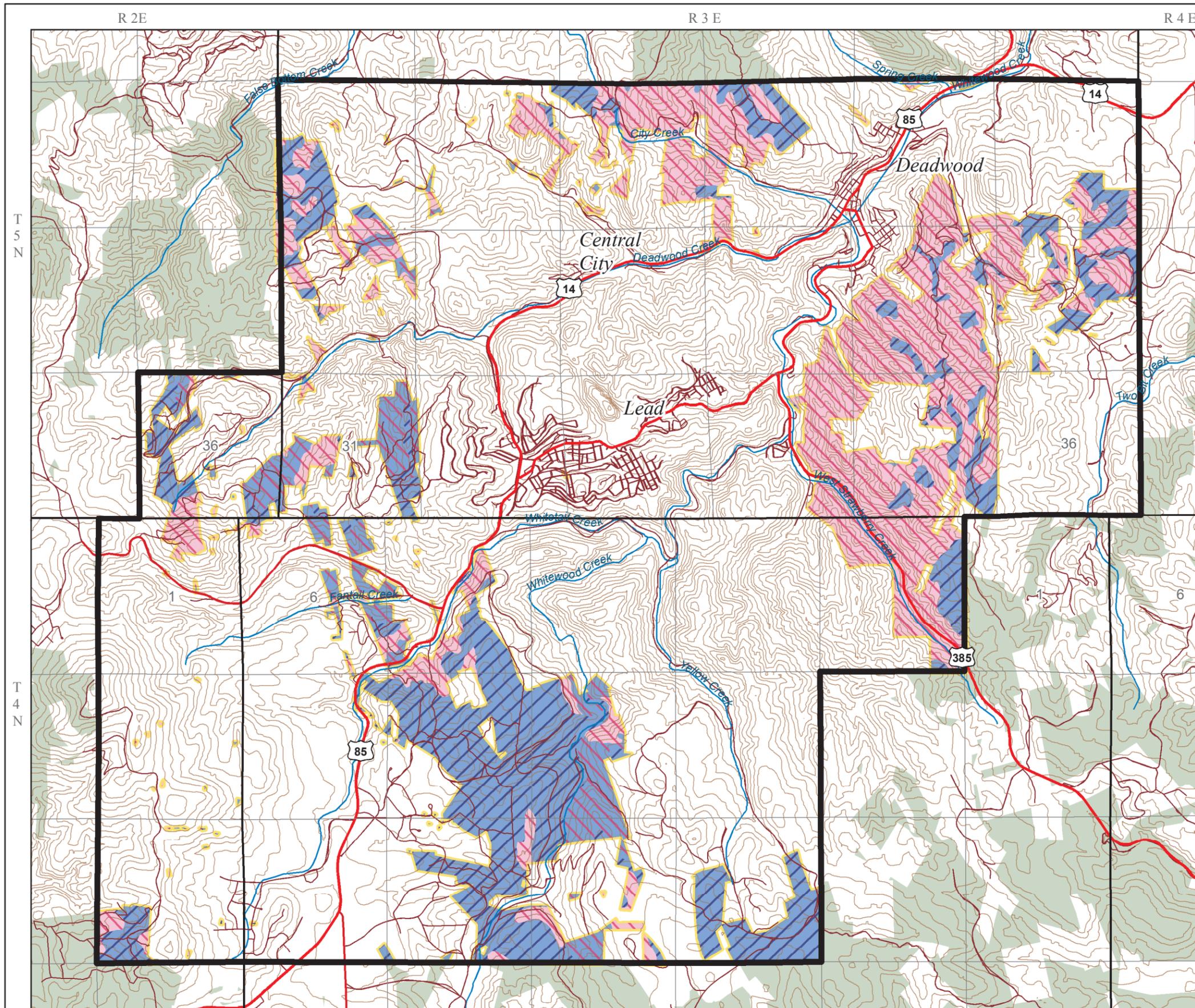
- Open Areas - Class 1-3
- Open Areas - Class 4-7
(Potential Wind Development Areas)
- Exclusion Areas
- Avoidance Areas
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Water
- Tribal, State, and other Federal
- Private

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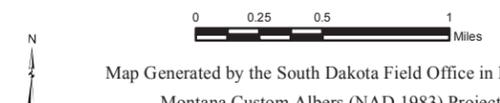
**Map 2-25:
South Dakota Exemption Area
Cattle and Sheep Grazing Capability
for New Allotments**

- | | |
|---------------------------------------|-------------|
| Exemption Area Boundary | Highway |
| Cattle Grazing Capability Capable | Local Roads |
| Cattle Grazing Capability Non-Capable | Other Roads |
| Sheep Grazing Capability Capable | Streams |
| Sheep Grazing Capability Non-Capable | BLM |
| | USFS |
| | Private |

Capable rangeland is accessible and usable by domestic livestock, has inherent forage producing capabilities, and can be grazed on a sustained yield basis without damage under reasonable management goals.

Capability criteria are as follows:

- 1) Capable for sheep grazing: slope less than or equal to 45%, range production above or at 200 lbs/acre, wind/water erodibility at slight to moderate.
- 2) Capable for cattle grazing: slope less than or equal to 30%, range production above or at 200 lbs/acre, wind/water erodibility at slight to moderate.



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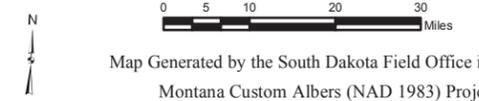


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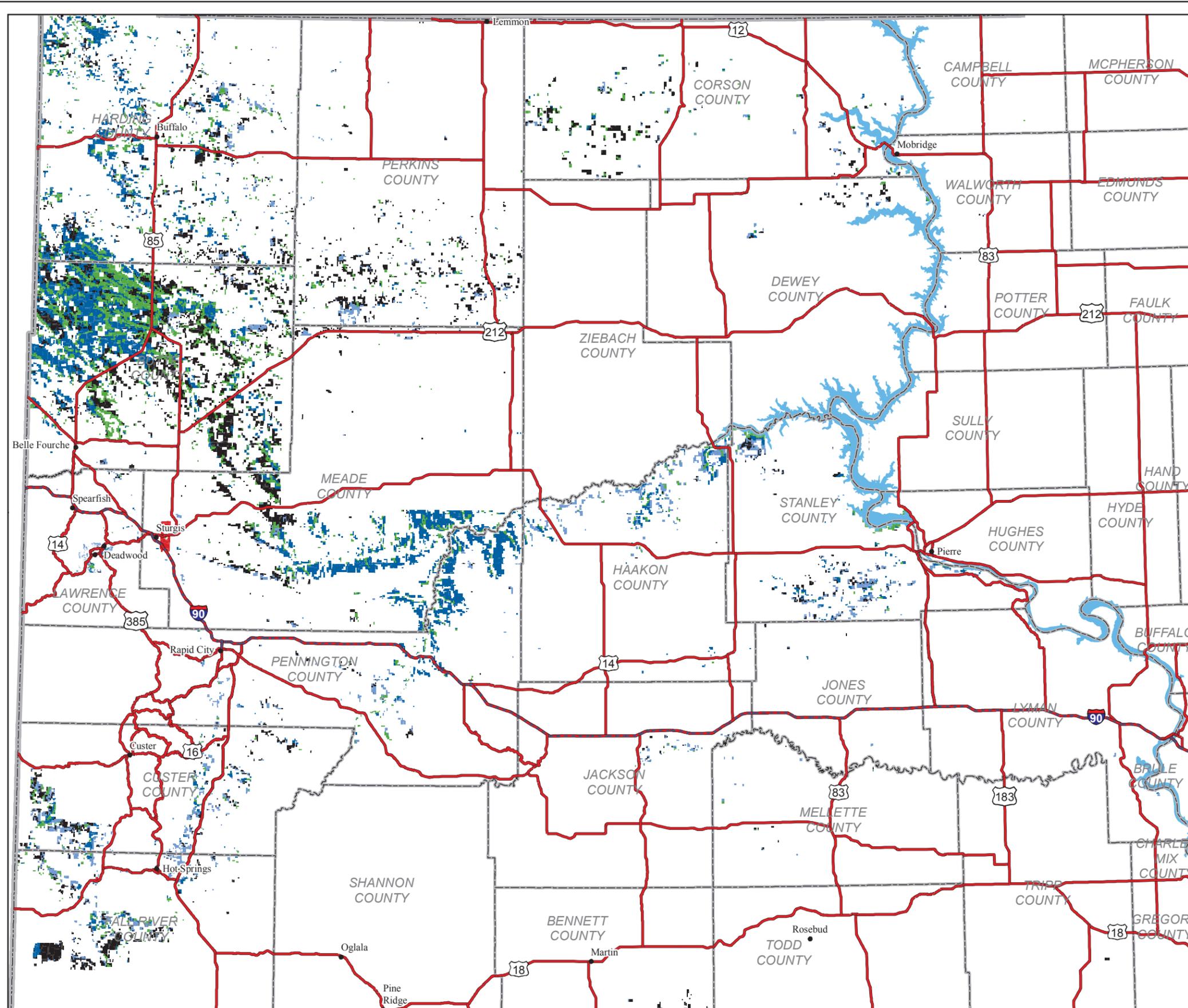
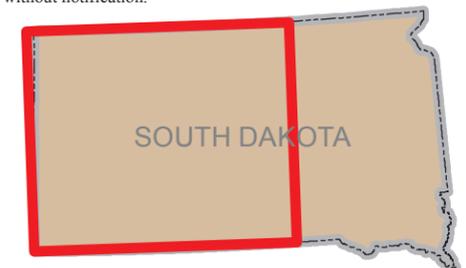
Map 2-26:
Oil and Gas Leasing Restrictions
Alternative A

- Closed to Leasing
- No Surface Occupancy
- Timing
- Controlled Surface Use
- Standard Lease Terms
- No BLM Administered Federal Minerals Present
- Limited Access Highway
- Highway
- County Boundaries
- Water

BLM only has jurisdiction to administer the leasing for federal mineral lands. Leasing of Tribal minerals is not under the jurisdiction of the BLM. BLM only has jurisdiction to develop and manage the application of lease stipulations for federal minerals within its Decision Area (See Chapter 1, pages 2-4, *Planning Area*, for a full description).



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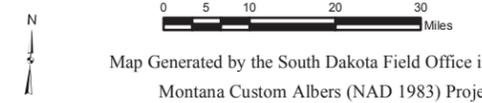


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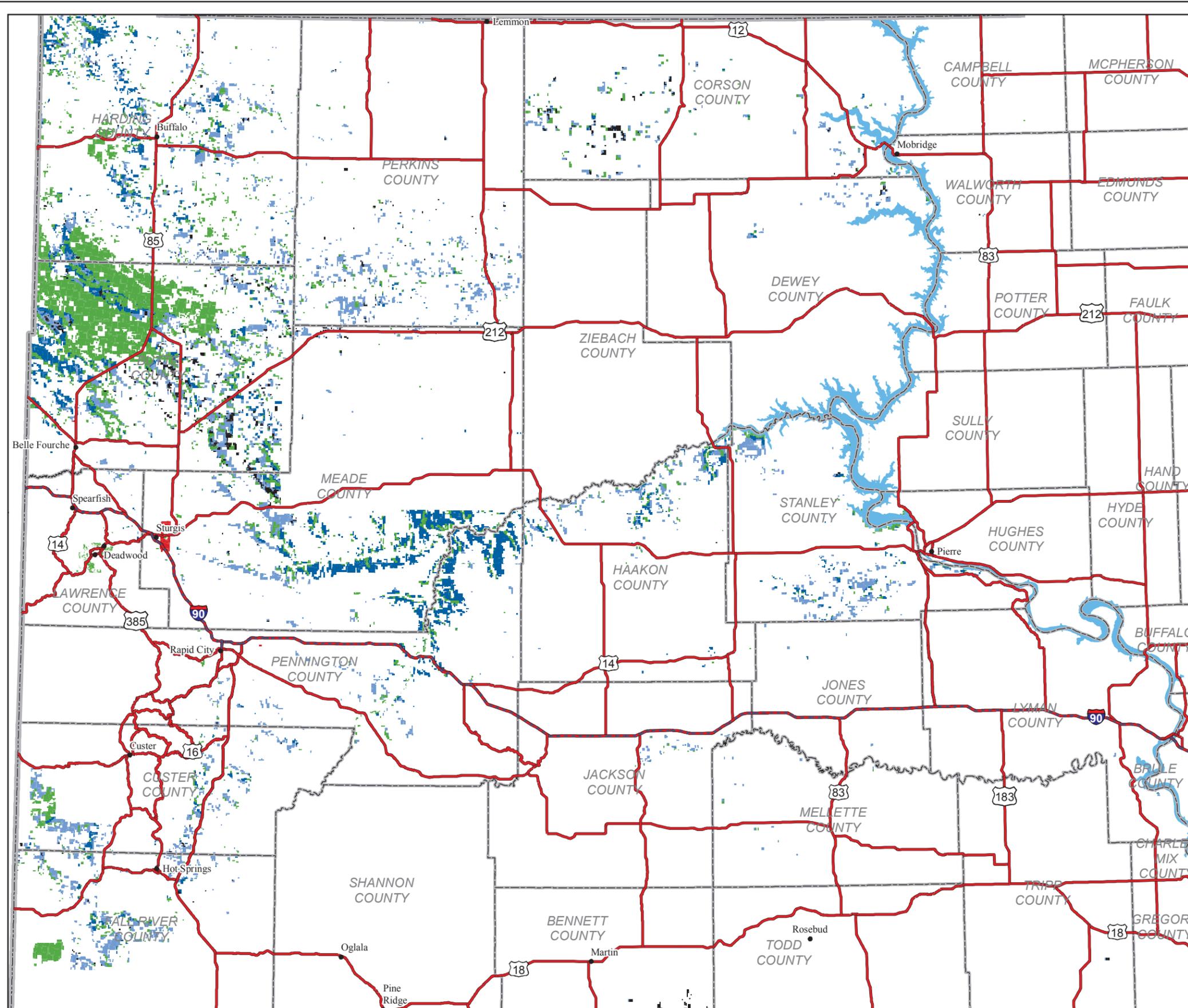
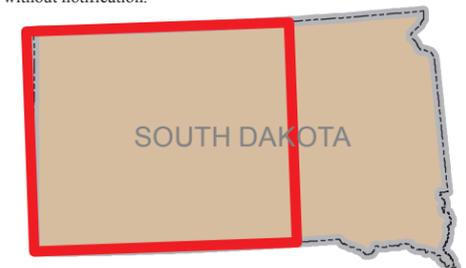
Map 2-27:
Oil and Gas Leasing Restrictions
Alternative B

- Closed to Leasing
- No Surface Occupancy
- Timing
- Controlled Surface Use
- Standard Lease Terms
- No BLM Administered Federal Minerals Present
- Limited Access Highway
- Highway
- County Boundaries
- Water

BLM only has jurisdiction to administer the leasing for federal mineral lands. Leasing of Tribal minerals is not under the jurisdiction of the BLM. BLM only has jurisdiction to develop and manage the application of lease stipulations for federal minerals within its Decision Area (See Chapter 1, pages 2-4, *Planning Area*, for a full description).



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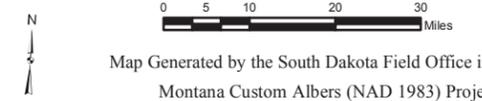


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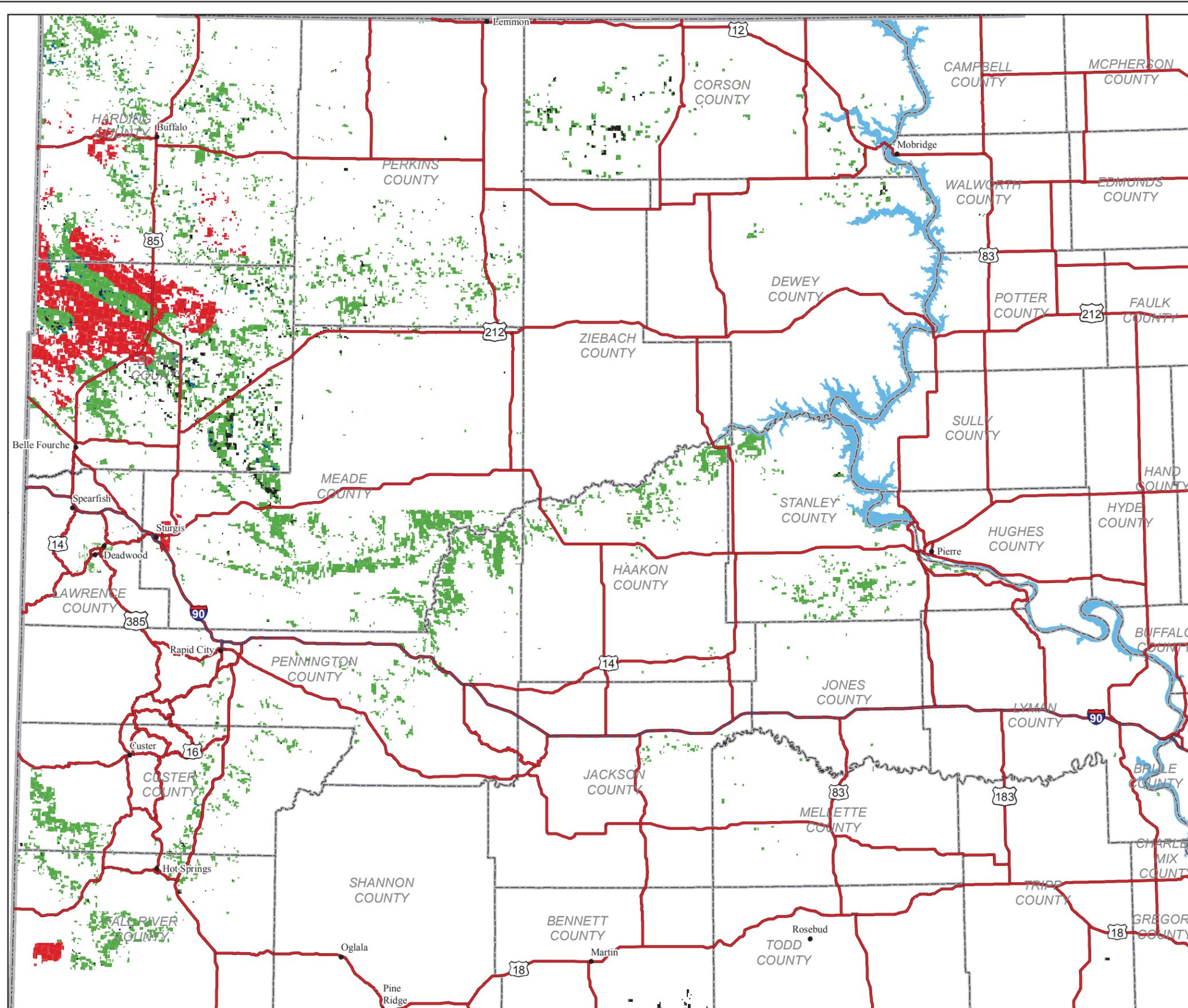
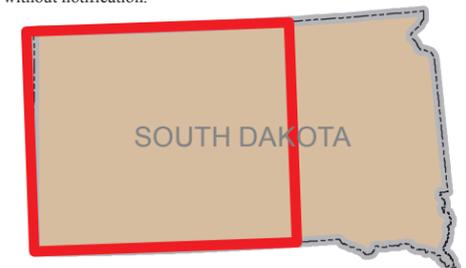
Map 2-28:
Oil and Gas Leasing Restrictions
Alternative C

- Closed to Leasing
- No Surface Occupancy
- Timing
- Controlled Surface Use
- Standard Lease Terms
- No BLM Administered Federal Minerals Present
- Limited Access Highway
- Highway
- County Boundaries
- Water

BLM only has jurisdiction to administer the leasing for federal mineral lands. Leasing of Tribal minerals is not under the jurisdiction of the BLM. BLM only has jurisdiction to develop and manage the application of lease stipulations for federal minerals within its Decision Area (See Chapter 1, pages 2-4, *Planning Area*, for a full description).



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Map 2-29:
Oil and Gas Leasing Restrictions
Alternative D

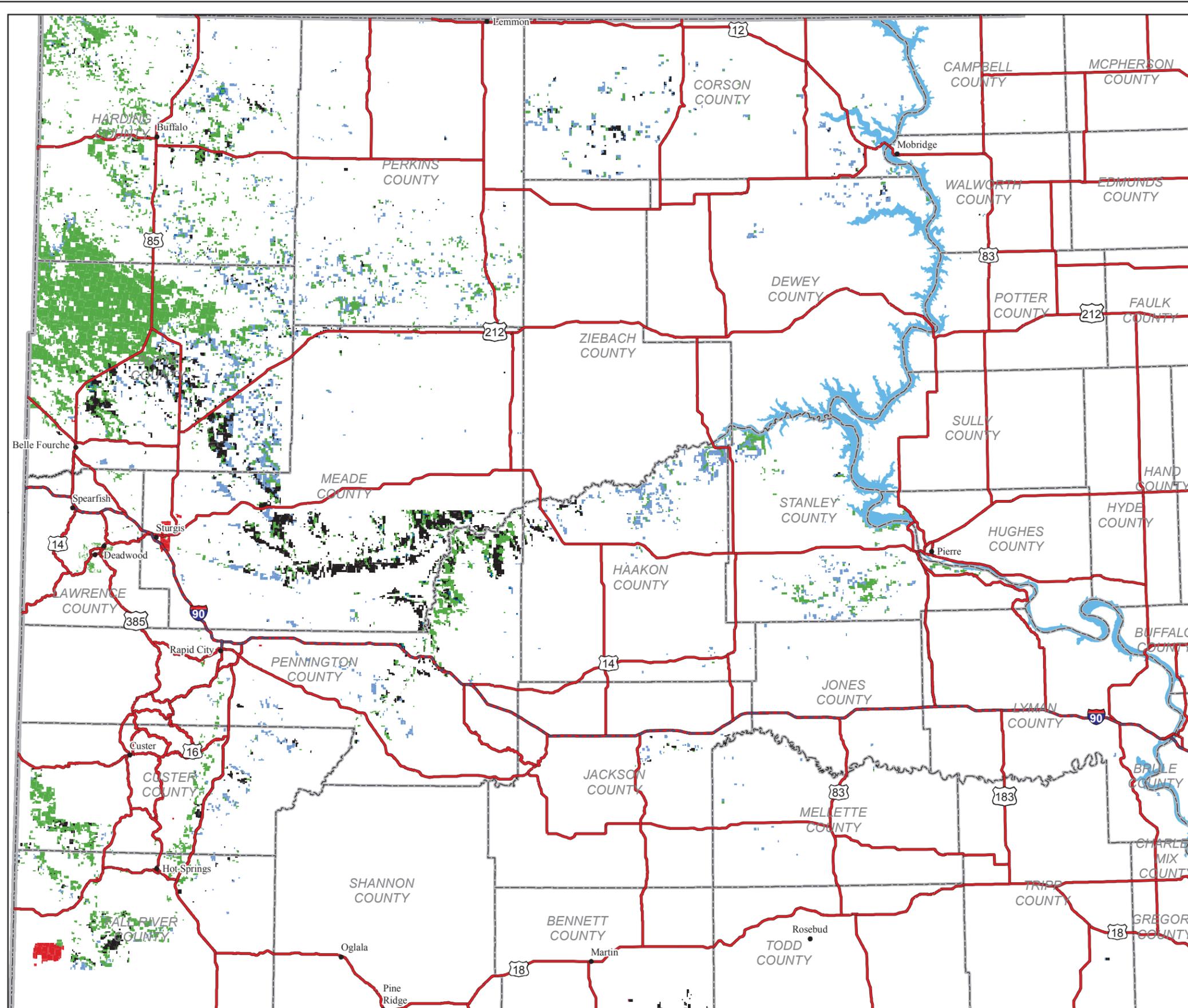
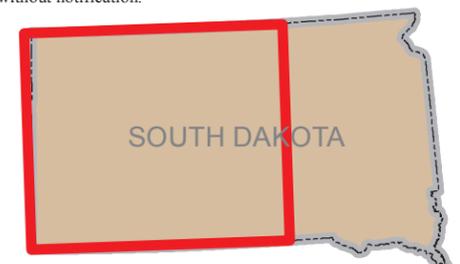
- Closed to Leasing
- No Surface Occupancy
- Timing
- Controlled Surface Use
- Standard Lease Terms
- No BLM Administered Federal Minerals Present
- Limited Access Highway
- Highway
- County Boundaries
- Water

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Map 2-30:
Visual Resource Management
Alternative A

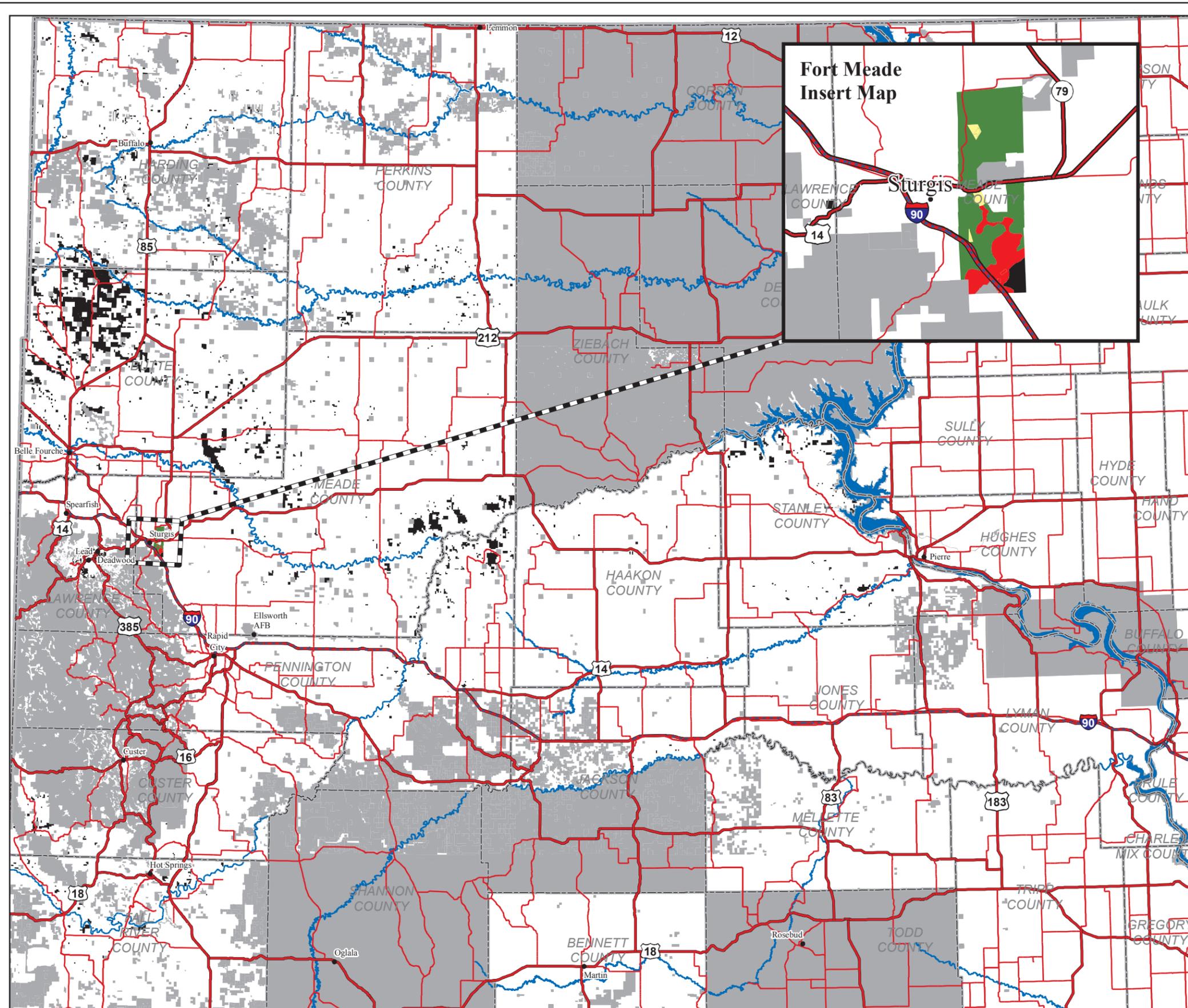
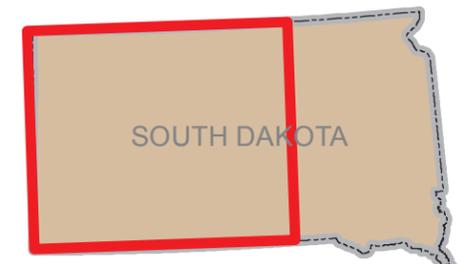
VRM Classes

- Not Ranked
- II
- III
- IV
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Tribal, State, and other Federal
- Private
- Water



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**Map 2-31:
Visual Resource Management
Alternative B**

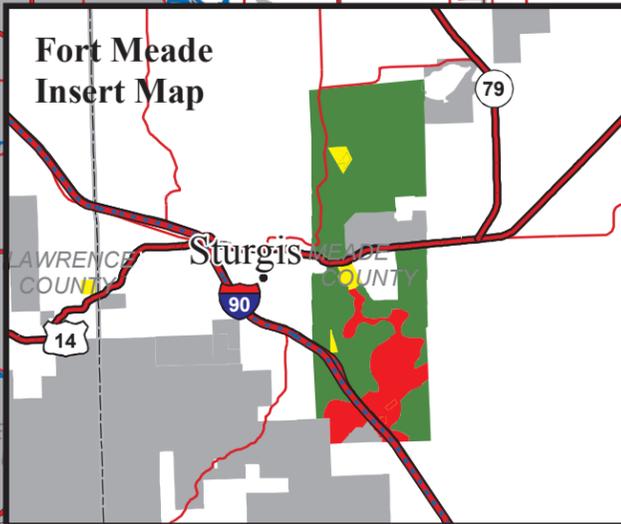
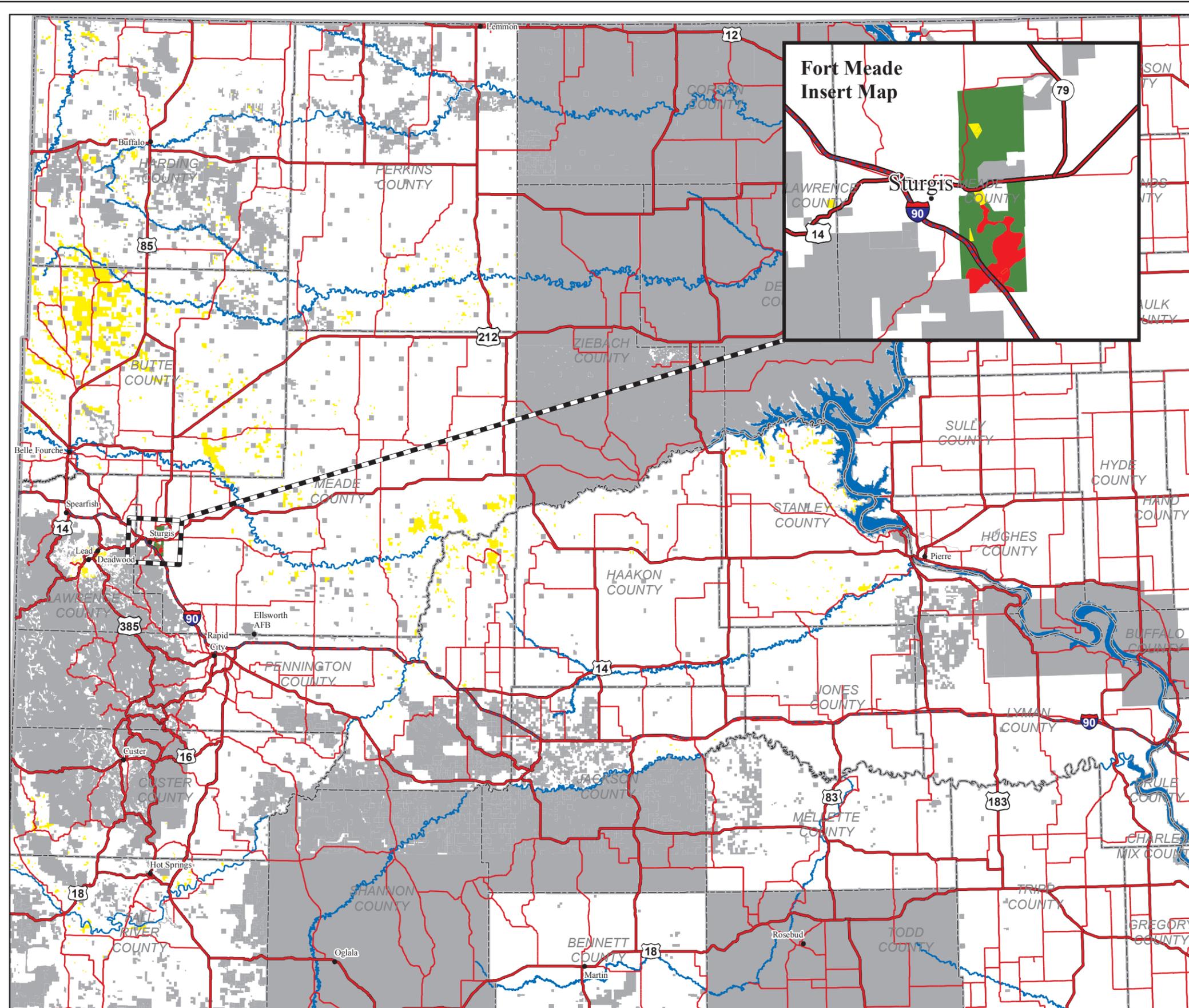
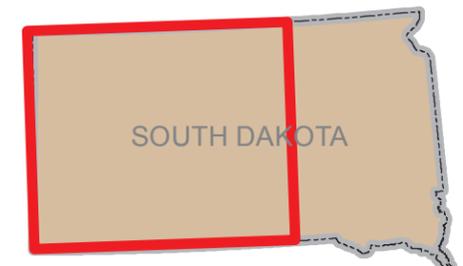
VRM Classes

- Not Ranked
- II
- III
- IV
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Tribal, State, and other Federal
- Private
- Water



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Map 2-32:
Visual Resource Management
Alternative C

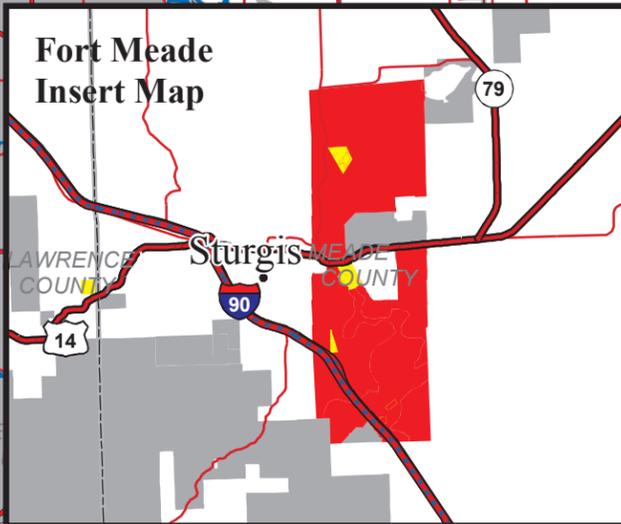
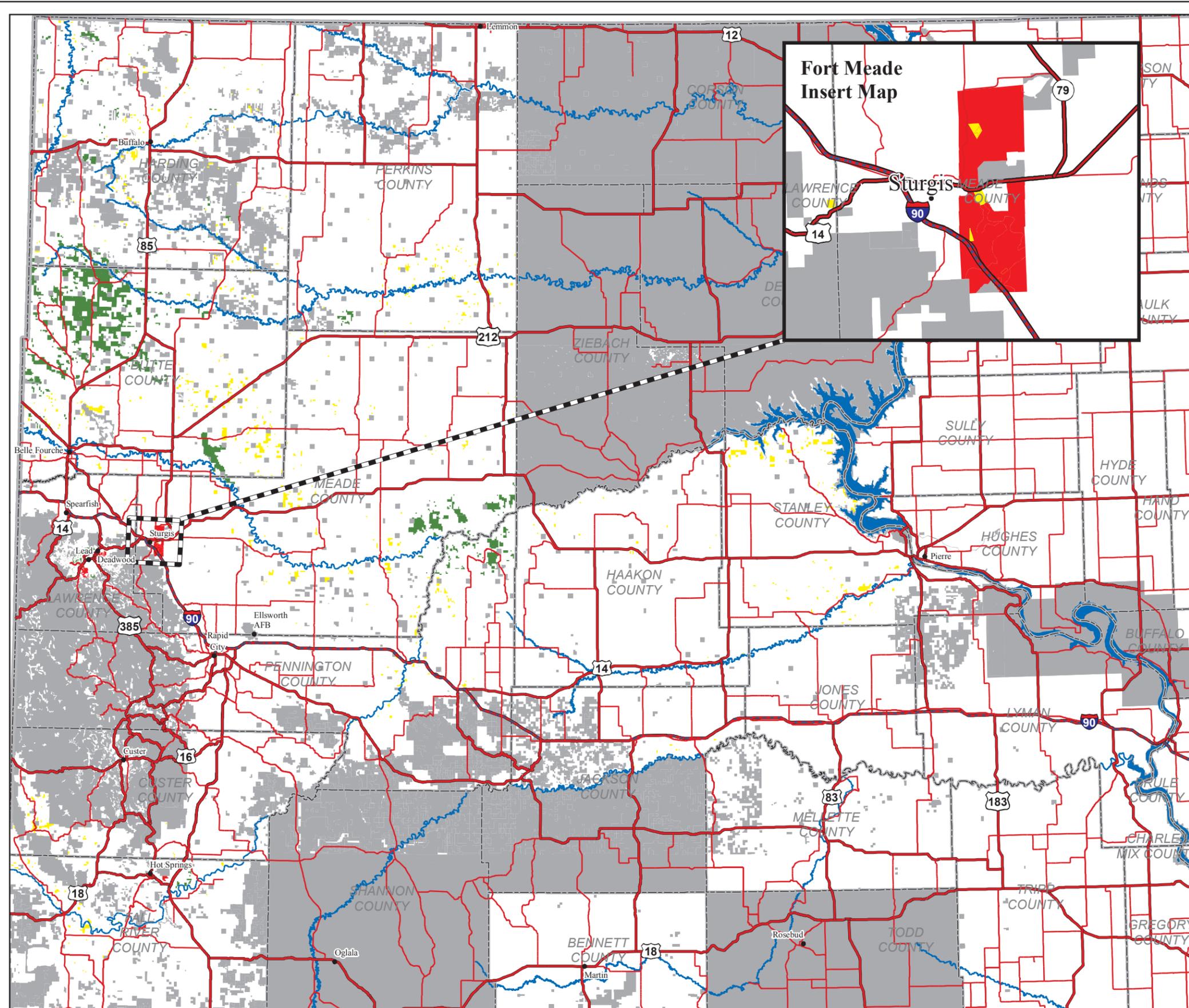
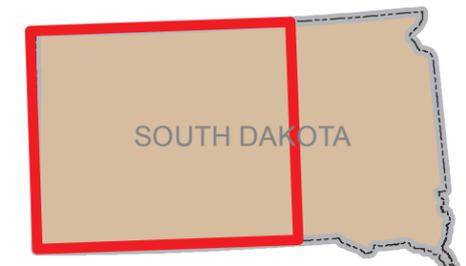
VRM Classes

- Not Ranked
- II
- III
- IV
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Tribal, State, and other Federal
- Private
- Water



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Map 2-33:
Visual Resource Management
Alternative D

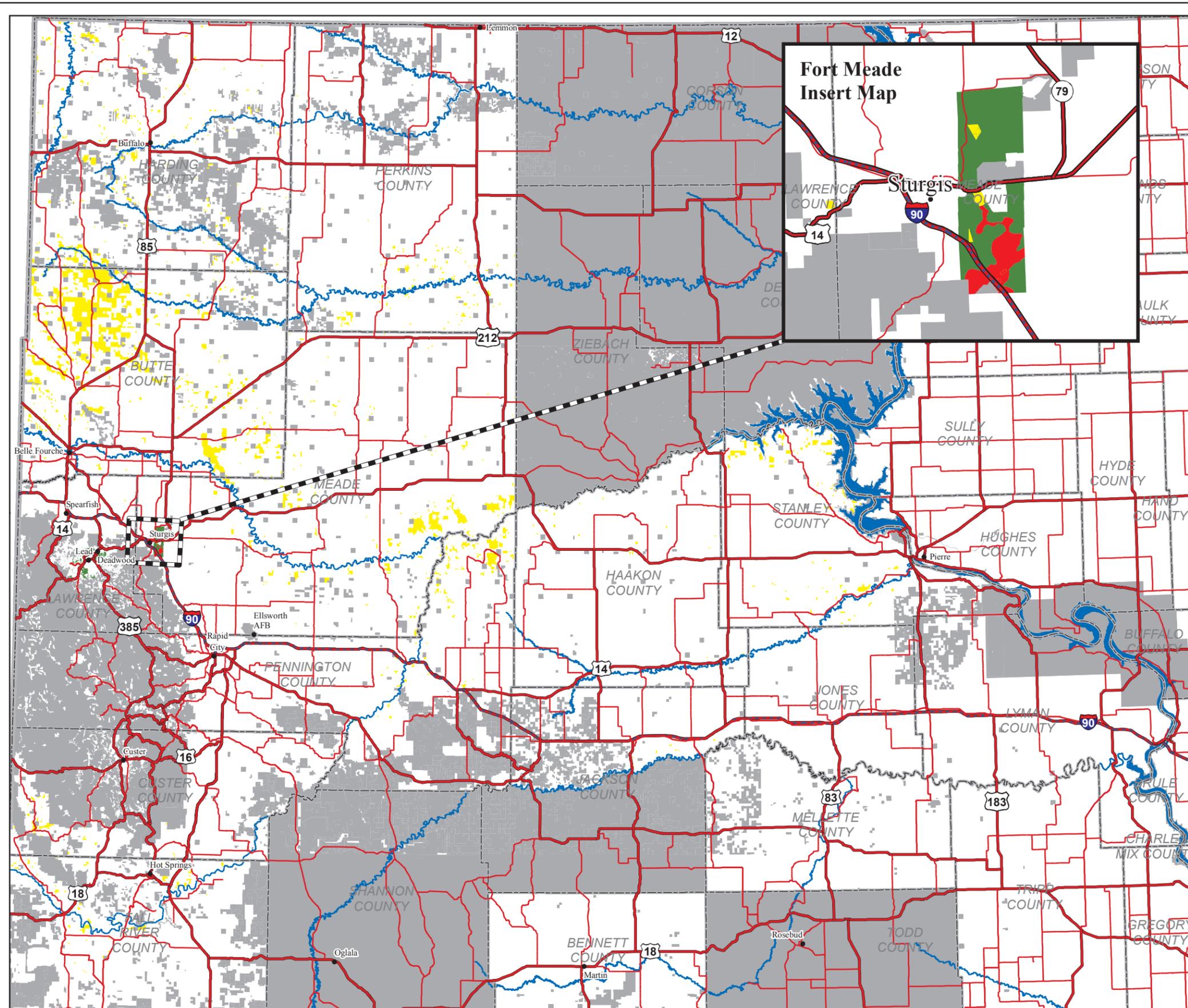
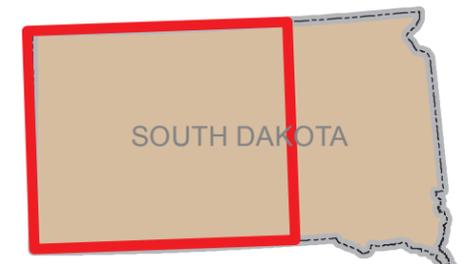
VRM Classes

- Not Ranked
- II
- III
- IV
- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Tribal, State, and other Federal
- Private
- Water



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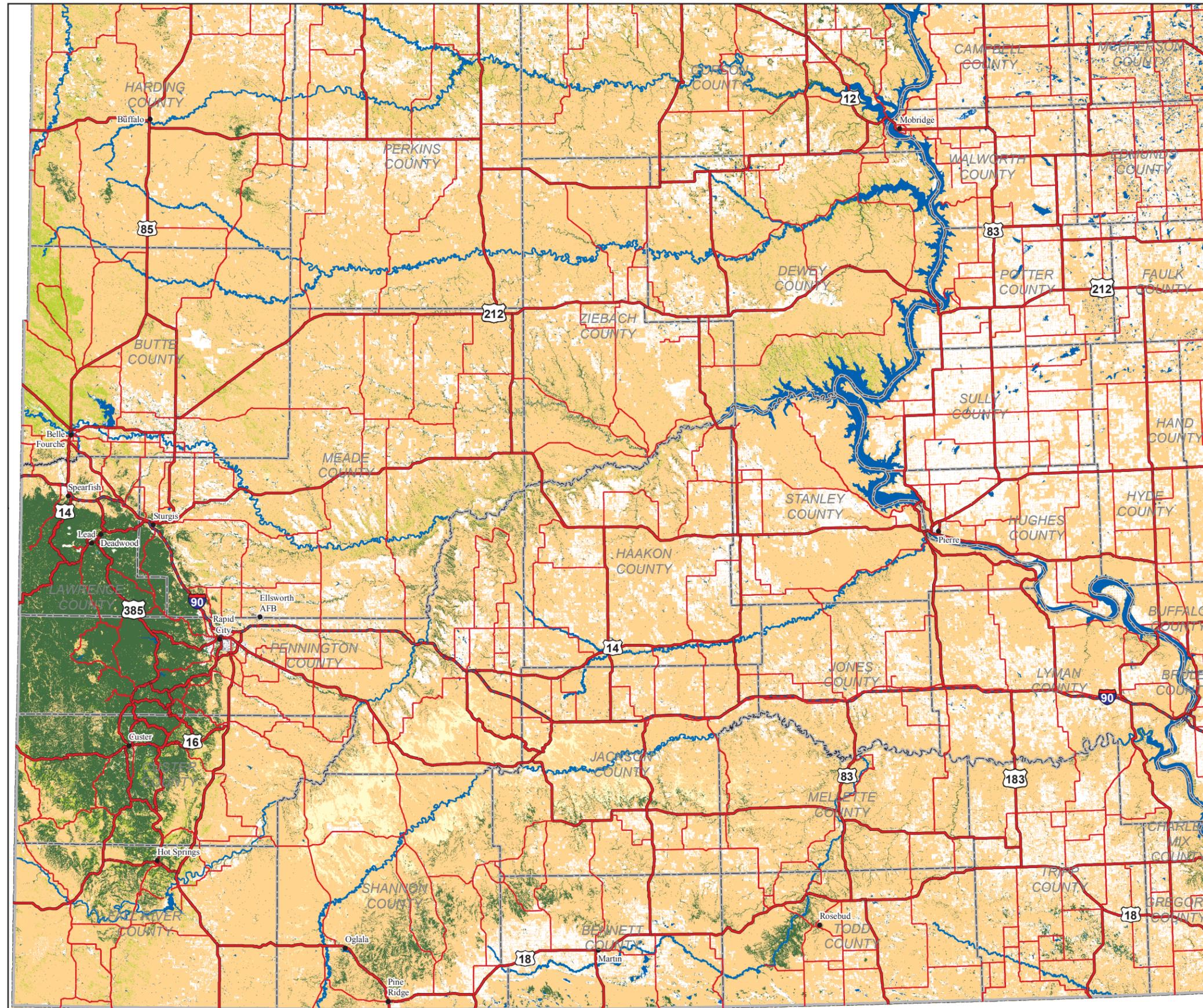


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Map 2-34: Vegetation
LANDFIRE 2010



- Limited Access Highway
- Highway
- Local Roads
- County Boundaries
- Vegetation (Landfire 2010)
 - Herbaceous / Nonvascular-dominated
 - Shrub-dominated
 - Non-vegetated
 - Tree-dominated
 - No Dominant Lifeform
 - Water

0 10 20 40 Miles
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