



Forest Service
U.S. DEPARTMENT OF AGRICULTURE

Intermountain Region/Ashley National Forest

April 2023

Final Environmental Impact Statement for Revision of the Ashley National Forest Land Management Plan

Pre-Objection Version Volume II - Appendix A



Cover images clockwise from top: Above the Lake Fork Drainage looking east toward Tungsten Pass, Mount Lovenia in foreground; participants at the Ute Indian Tribe Powwow in Fort Duchesne; Flaming Gorge National Recreation Area; Ute Mountain Fire Lookout. Photos credit: USDA Forest Service.

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- Appendix E. Compatibility of Plan with Other Agency Plans
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Acronym or Abbreviation	Full Term
ATV.....	all-terrain vehicle
BLM.....	U.S. Department of the Interior, Bureau of Land Management
CCF.....	hundred cubic feet
CE.....	Categorical Exclusion
CEQ.....	Council on Environmental Quality
CFR.....	Code of Federal Regulations
DEIS.....	draft environmental impact statement
EIS.....	environmental impact statement
EO.....	executive order
EPA.....	Environmental Protection Agency
ESA.....	Endangered Species Act
FGNRA.....	Flaming Gorge National Recreation Area
FLPMA.....	Federal Land Policy and Management Act
Forest Service.....	United States Department of Agriculture Forest Service
GIS.....	geographic information systems
HVRA.....	high-value resource area
IAP.....	Intermountain Adaption Partnership
IPaC.....	USFWS Information for Planning and Conservation
IRA.....	inventoried roadless area
mcf.....	thousand cubic feet
MBF.....	thousand board feet
NAAQS.....	National Ambient Air Quality Standards
NEPA.....	National Environmental Policy Act
NHD.....	National hydrology dataset
NHPA.....	National Historic Preservation Act
NRA.....	National Recreation Area
NRCS.....	Natural Resources Conservation Service
NRGA.....	National Recreation and Geologic Area
NRHP.....	National Register of Historic Places
NWI.....	National Wetlands Inventory
NWSRS.....	National Wild and Scenic Rivers System
OHV.....	off-highway vehicle
ORV.....	outstandingly remarkable value
PM.....	particulate matter
PM ₁₀	particulate matter less than 10 micrometers in diameter
PM _{2.5}	particulate matter less than 2.5 micrometers in diameter

RNA..... research natural area
ROS..... recreation opportunity spectrum
ROW right-of-way
SCC..... species of conservation concern
SIO..... scenic integrity objectives
SMS Scenery Management System

Tg..... teragram

UDWR Utah Division of Wildlife Resources
USC..... United States Code
USDA..... United States Department of Agriculture
USFWS United States Fish and Wildlife Service

VCC vegetation condition class
VCMQ vegetation classification, mapping, and quantitative inventory
VMS..... Visual Management System
VQO..... visual quality objective

WCF..... watershed condition framework

Appendix A

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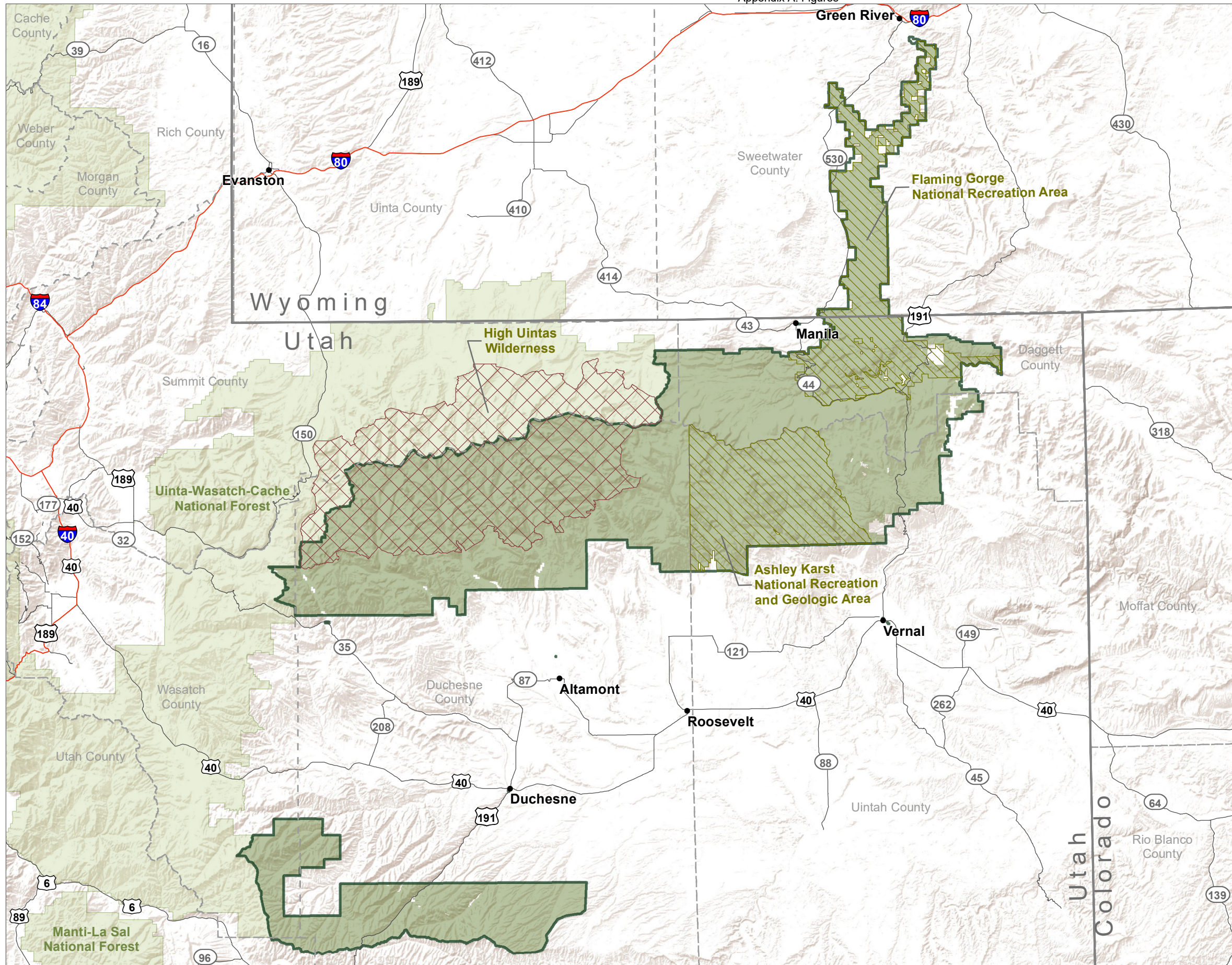
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*Figures 3-1, 3-2, 3-14 and 3-15 are included in Chapter 3.




Notable Changes Between Draft and Final

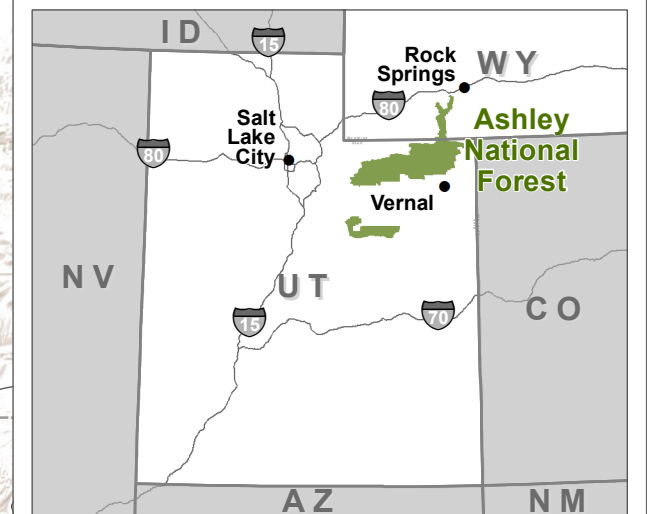
The following is a summary of the key changes made to figures between draft and final EIS.

- Map labels were updated from “alternative B” to “alternative B modified.”
- Two new figures were added to chapter 3 of the final EIS: Figure 3-1, 8-Hour Ozone Concentrations in the Uintah Basin (2010-March 2021); and Figure 3-2. Time Series of Daily Maximum Ozone Concentrations in the Uintah Basin (2010-March 2021)
- A disclaimer was added to Figure 3-4 that states: Many springs on the forest have not been documented; the figure indicates land type associations that contain areas sensitive to compaction due to the presence of seeps, fens, and seasonally high water tables.
- Figure 3-8 was updated to reflect the 2022 303(d) list in Utah, as well as current EPA (ATTAINS) GIS data.
- Figure 3-21 in the draft EIS “Alternative B: Recommended Wilderness Areas and Existing Research Natural Areas” was removed as no recommended wilderness was carried forward in alternative B modified in the final EIS.
- Figure numbers in the final EIS were updated in accordance with these changes.

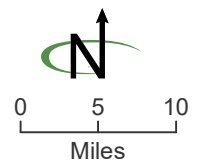


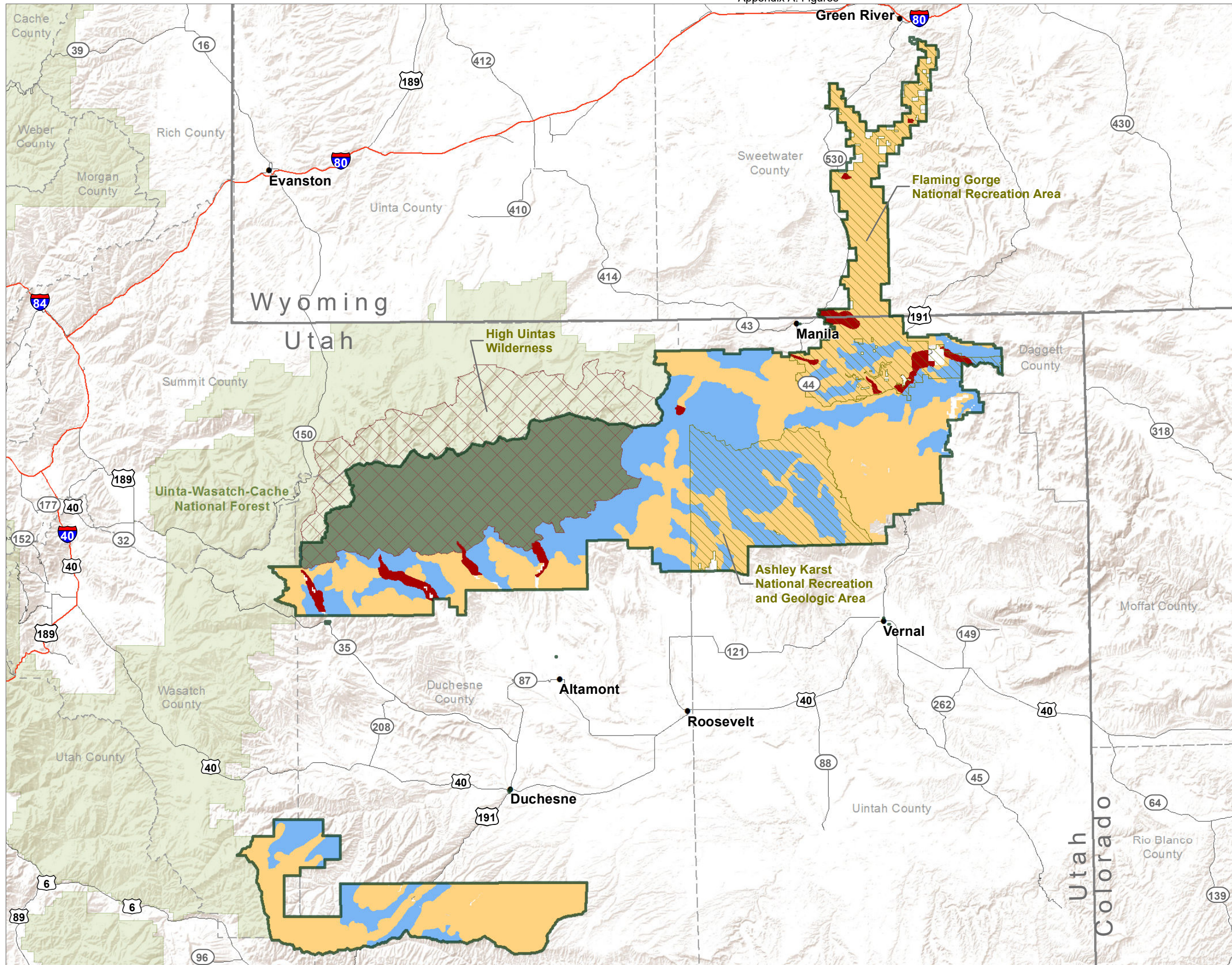
**Figure 1-1
Planning Area**

-  National Recreation Area
-  Designated wilderness
-  Ashley National Forest



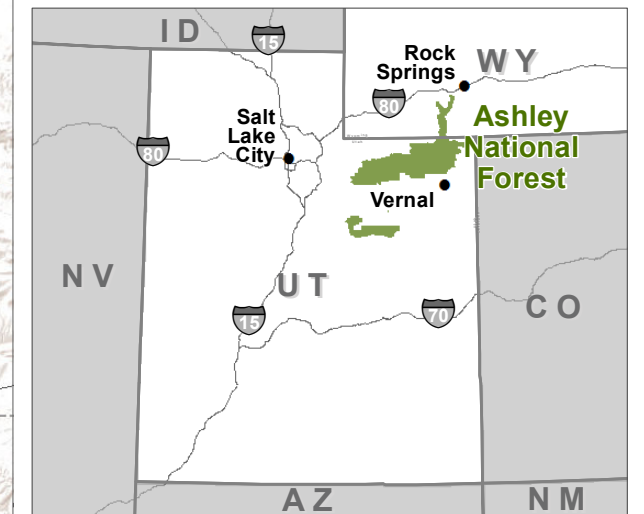
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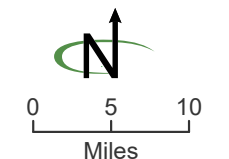


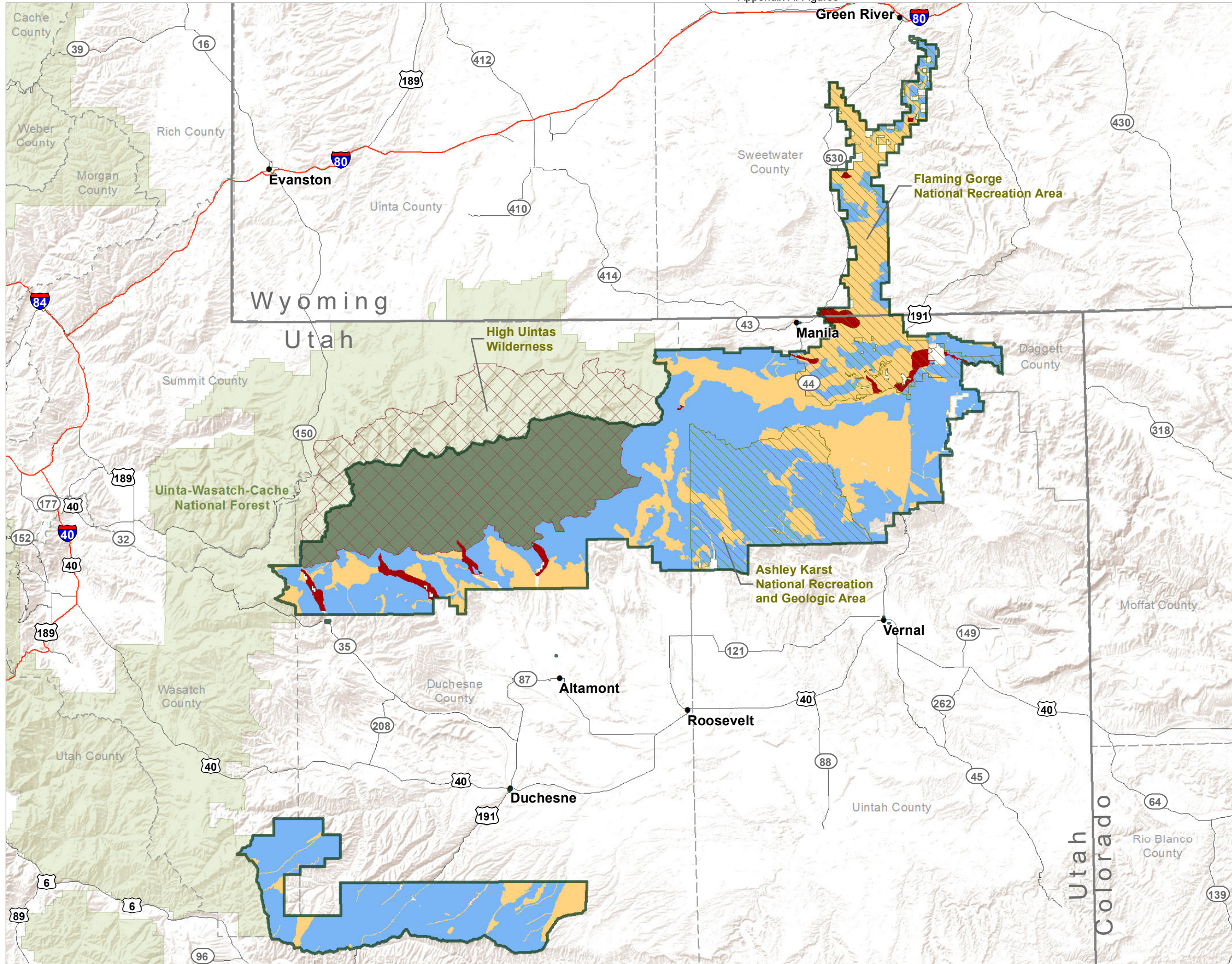
**Figure 2-1
Alternative B Modified:
Recreation Management Areas**

- Backcountry Recreation MA
- Destination Recreation MA
- General Recreation MA
- High Uintas Wilderness
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



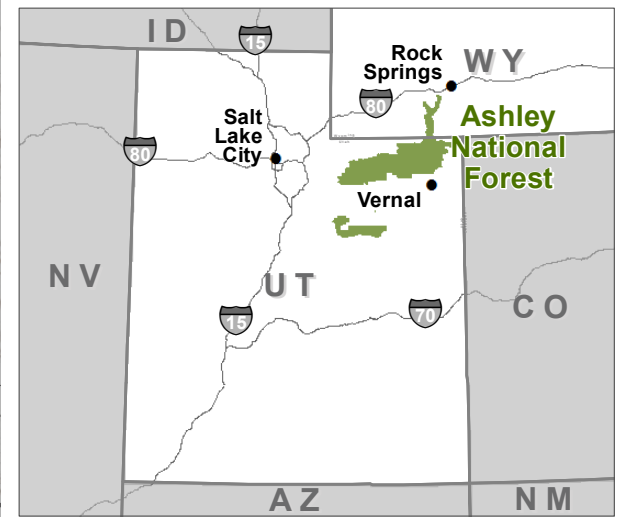
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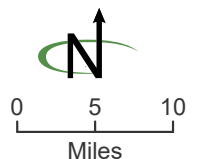


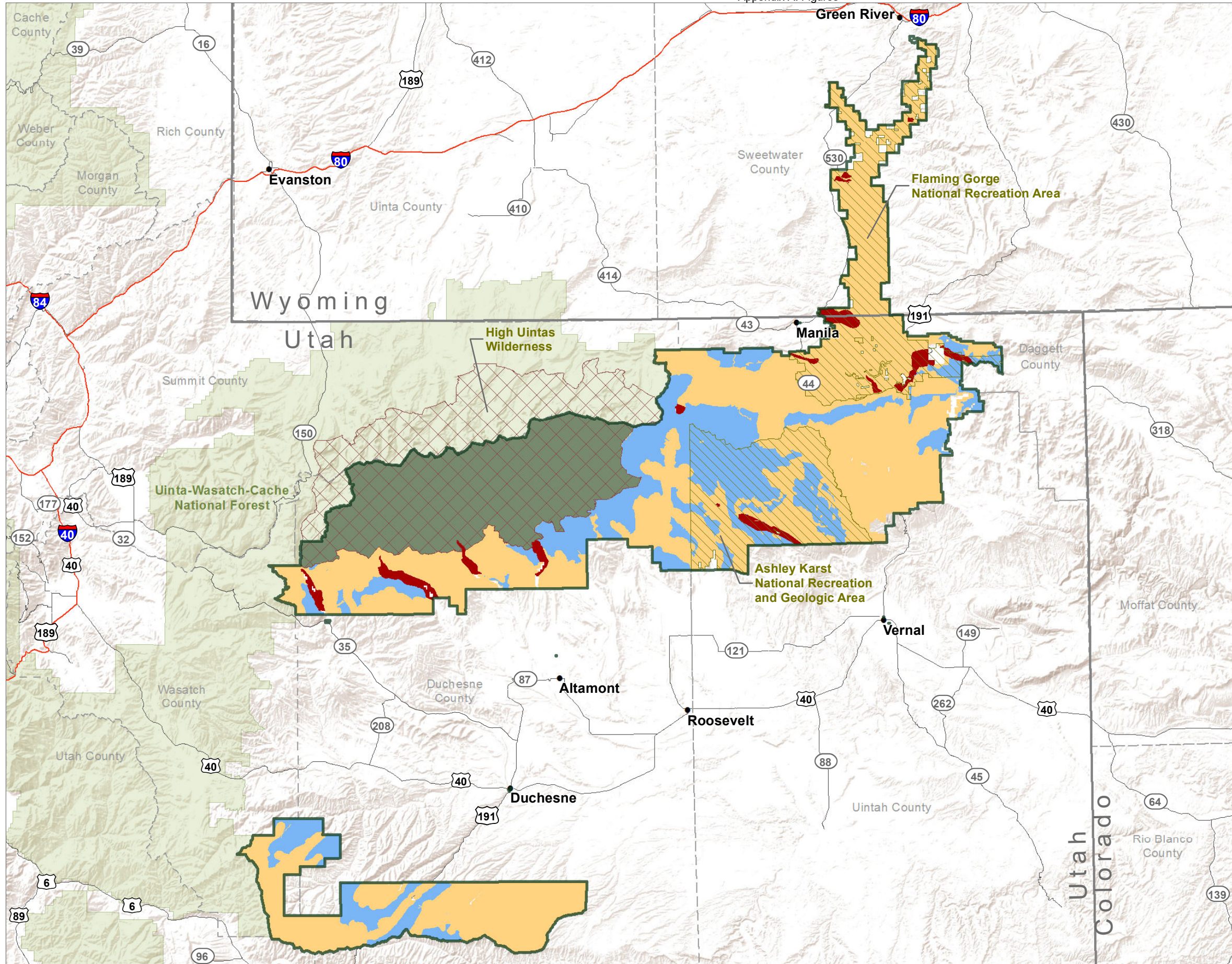
**Figure 2-2
Alternative C:
Recreation Management Areas**

- Backcountry Recreation MA
- Destination Recreation MA
- General Recreation MA
- High Uintas Wilderness
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



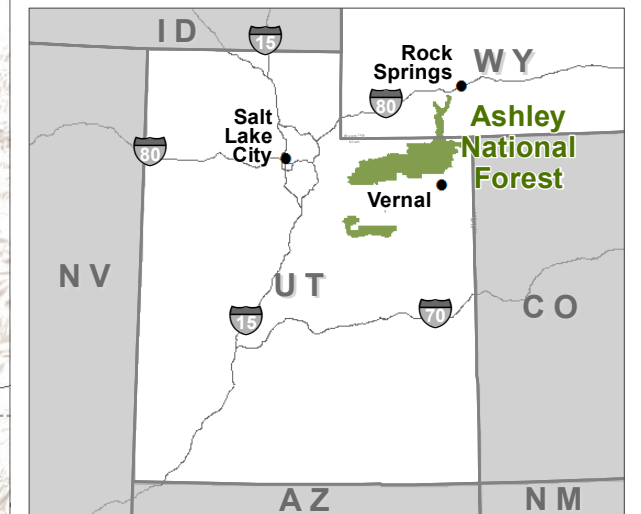
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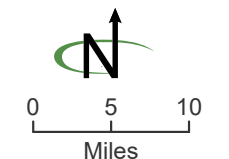


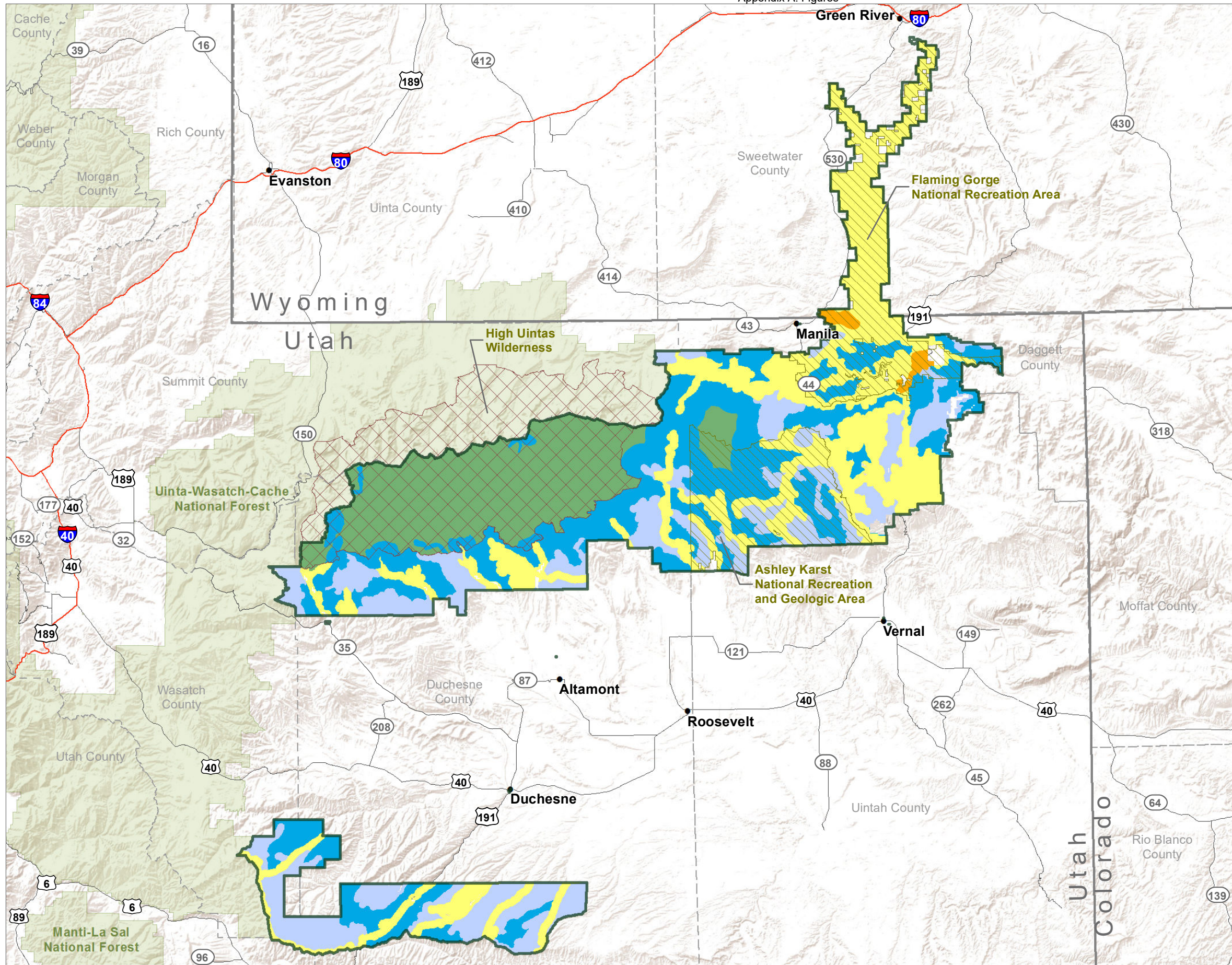
**Figure 2-3
Alternative D:
Recreation Management Areas**

- Backcountry Recreation MA
- Destination Recreation MA
- General Recreation MA
- High Uintas Wilderness
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



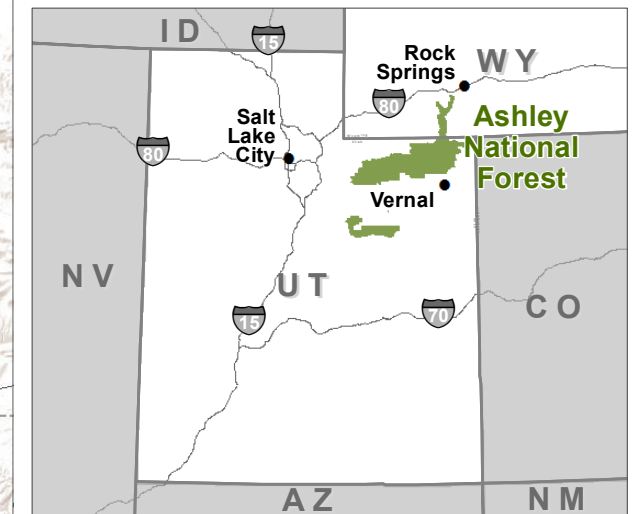
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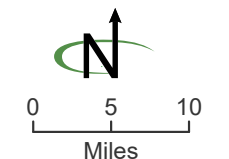


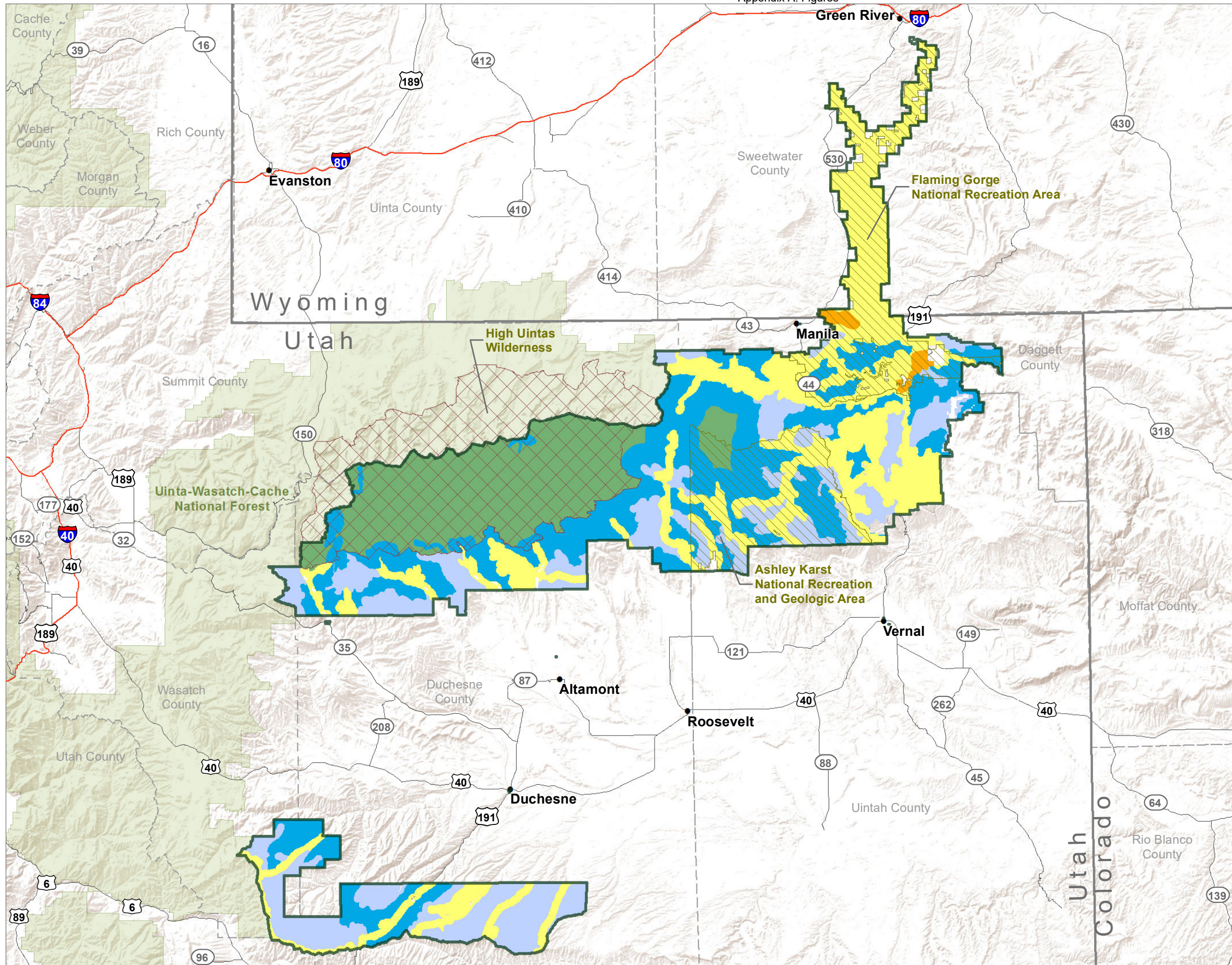
**Figure 2-4
Alternative A: Recreation Opportunity Spectrum**

- Primitive
- Roaded natural
- Rural
- Semi-primitive motorized
- Semi-primitive non-motorized
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



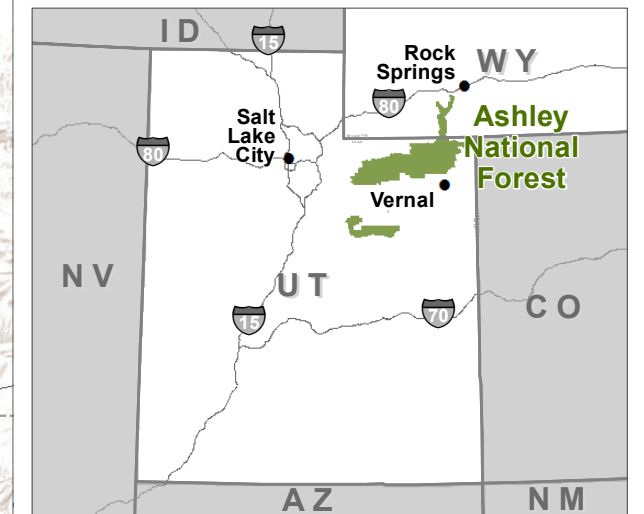
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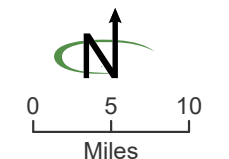


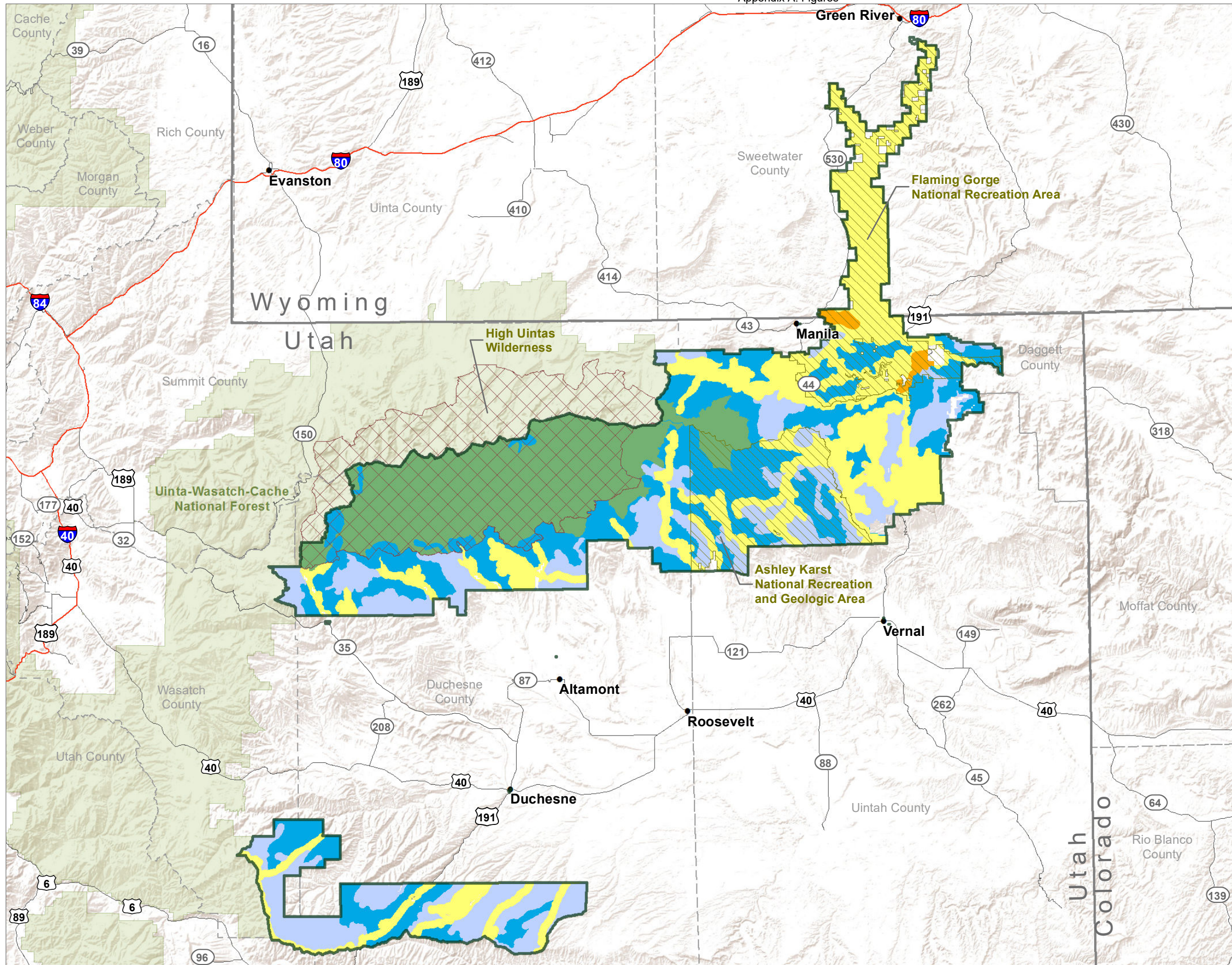
**Figure 2-5
Alternative B Modified: Recreation
Opportunity Spectrum**

- Primitive
- Routed natural
- Rural
- Semi-primitive motorized
- Semi-primitive non-motorized
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



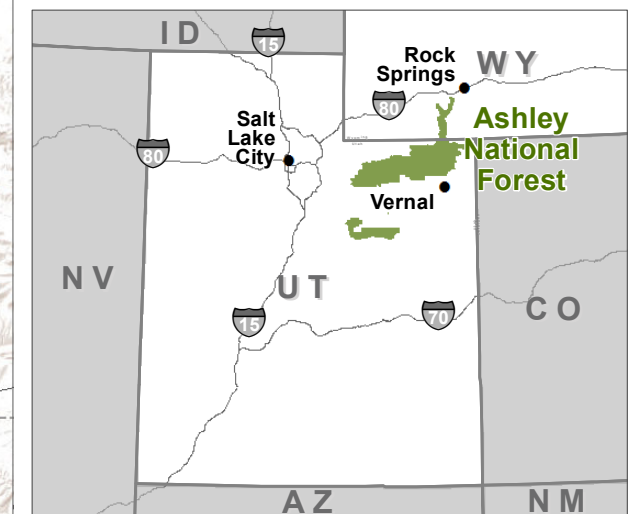
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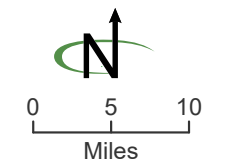


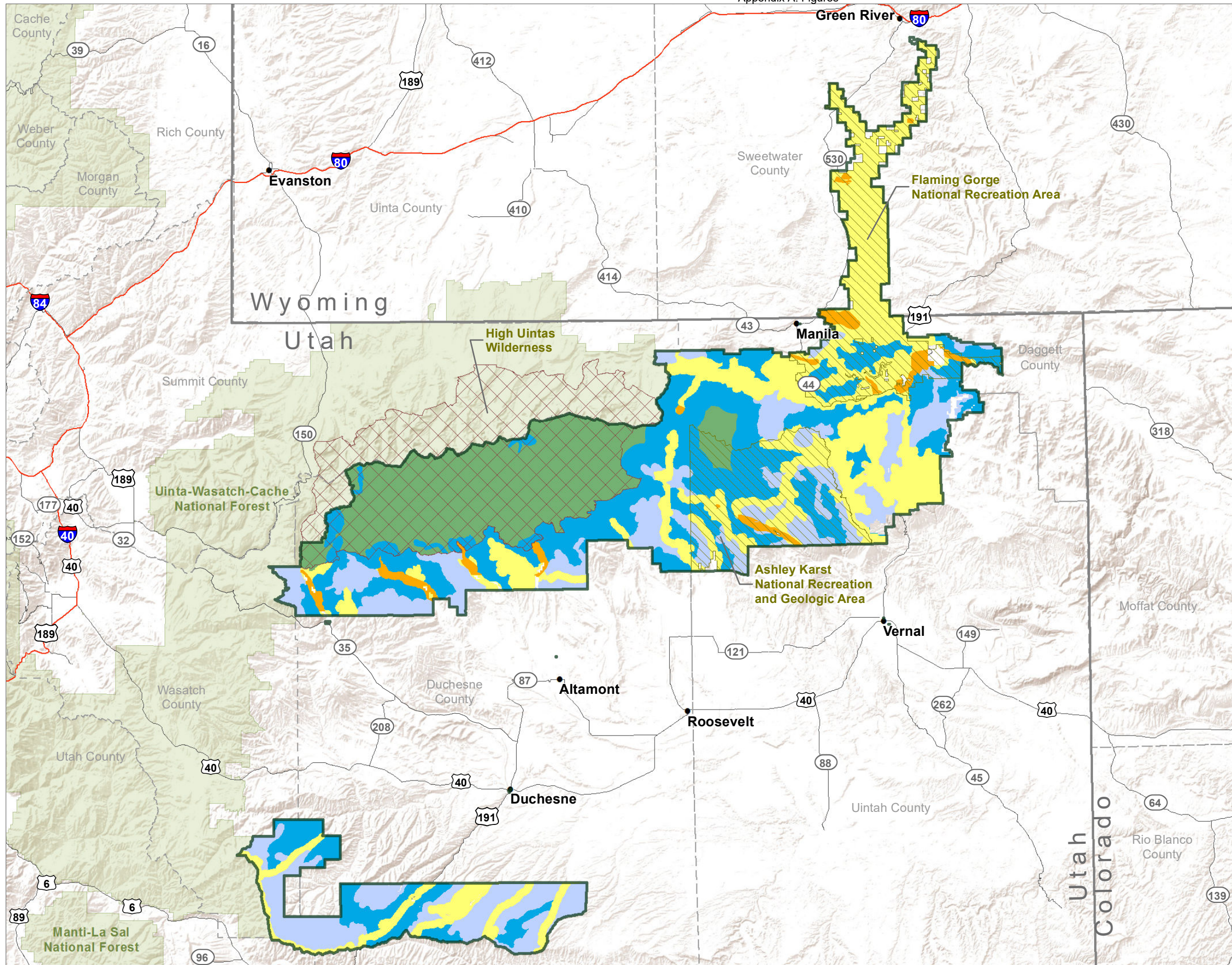
**Figure 2-6
Alternative C: Recreation Opportunity
Spectrum**

- Primitive
- Roaded natural
- Rural
- Semi-primitive motorized
- Semi-primitive non-motorized
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



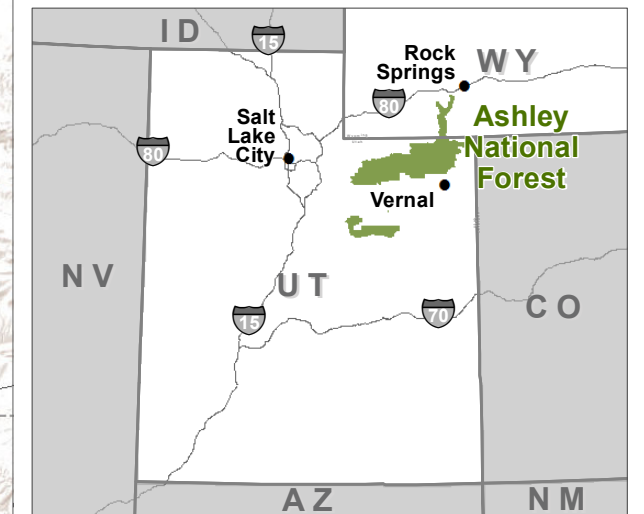
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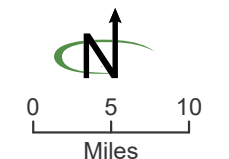


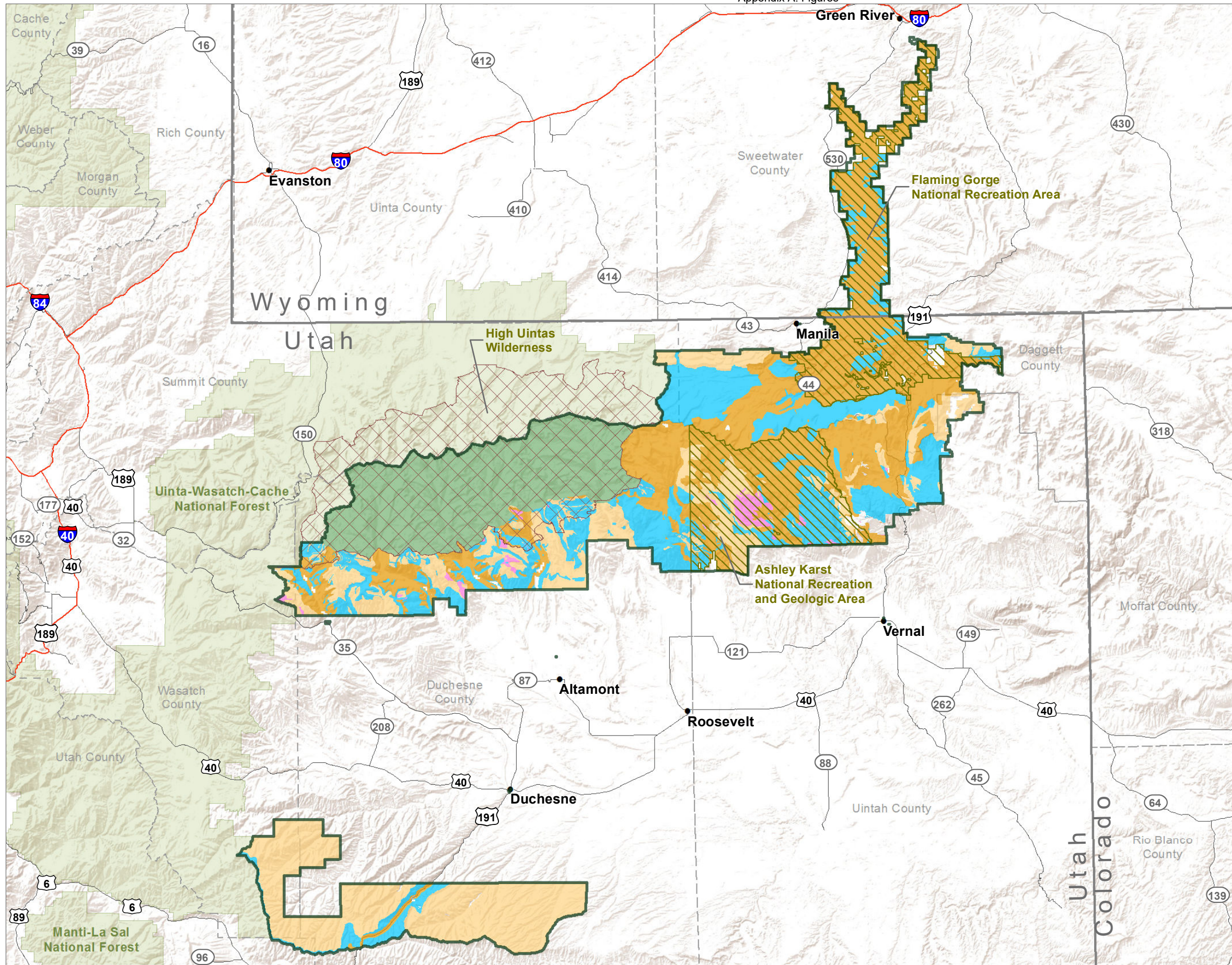
**Figure 2-7
Alternative D: Recreation Opportunity Spectrum**

- Primitive
- Roaded natural
- Rural
- Semi-primitive motorized
- Semi-primitive non-motorized
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



Source: Forest Service GIS 2020
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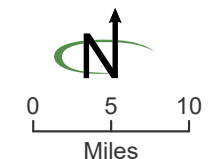


**Figure 2-8
Alternative A:
Visual Quality Objective**

- Preservation
- Retention
- Partial Retention
- Modification
- Maximum Modification
- National Recreation Area
- Designated wilderness
- Ashley National Forest



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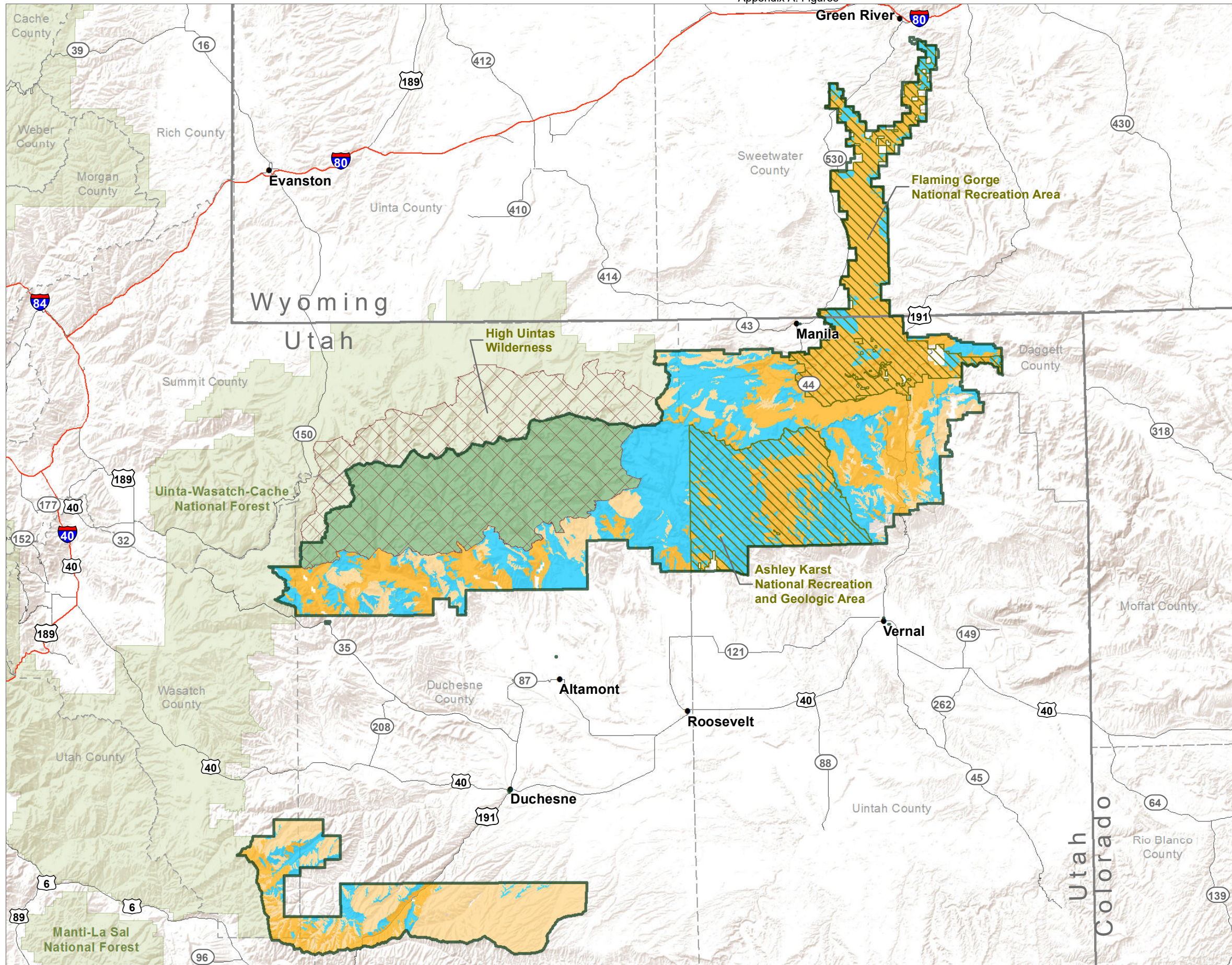
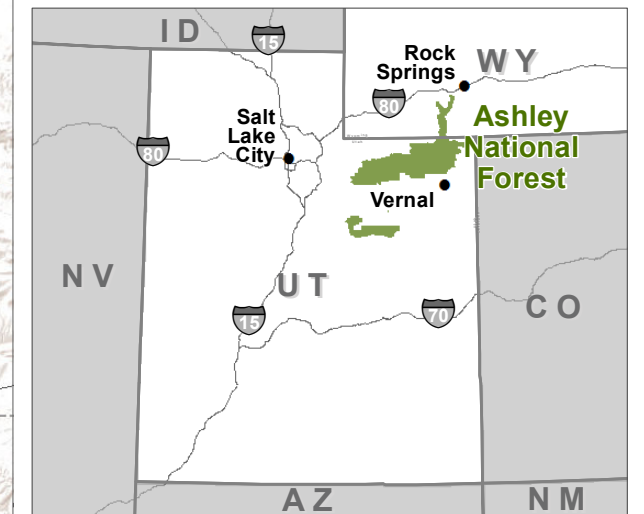
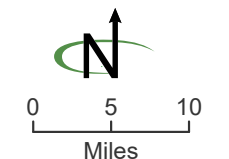


Figure 2-9
Alternative B Modified:
Scenic Integrity Objective

- Very high
- High
- Moderate
- Low
- National Recreation Area
- Designated wilderness
- Ashley National Forest



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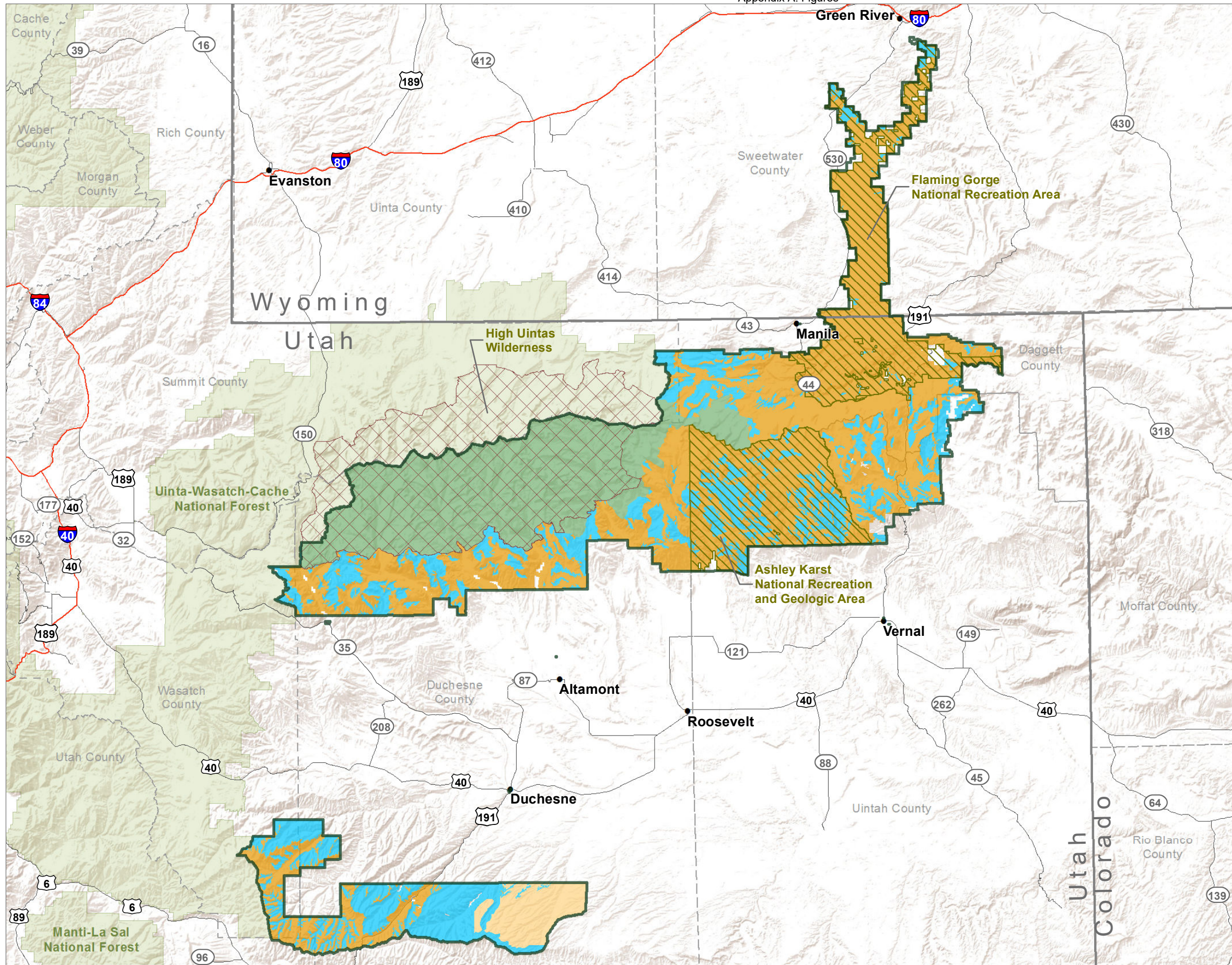
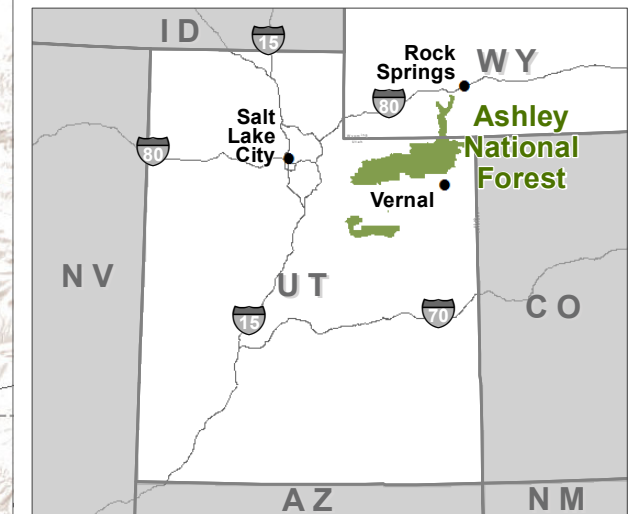
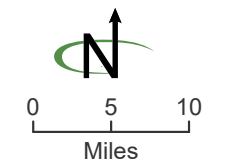


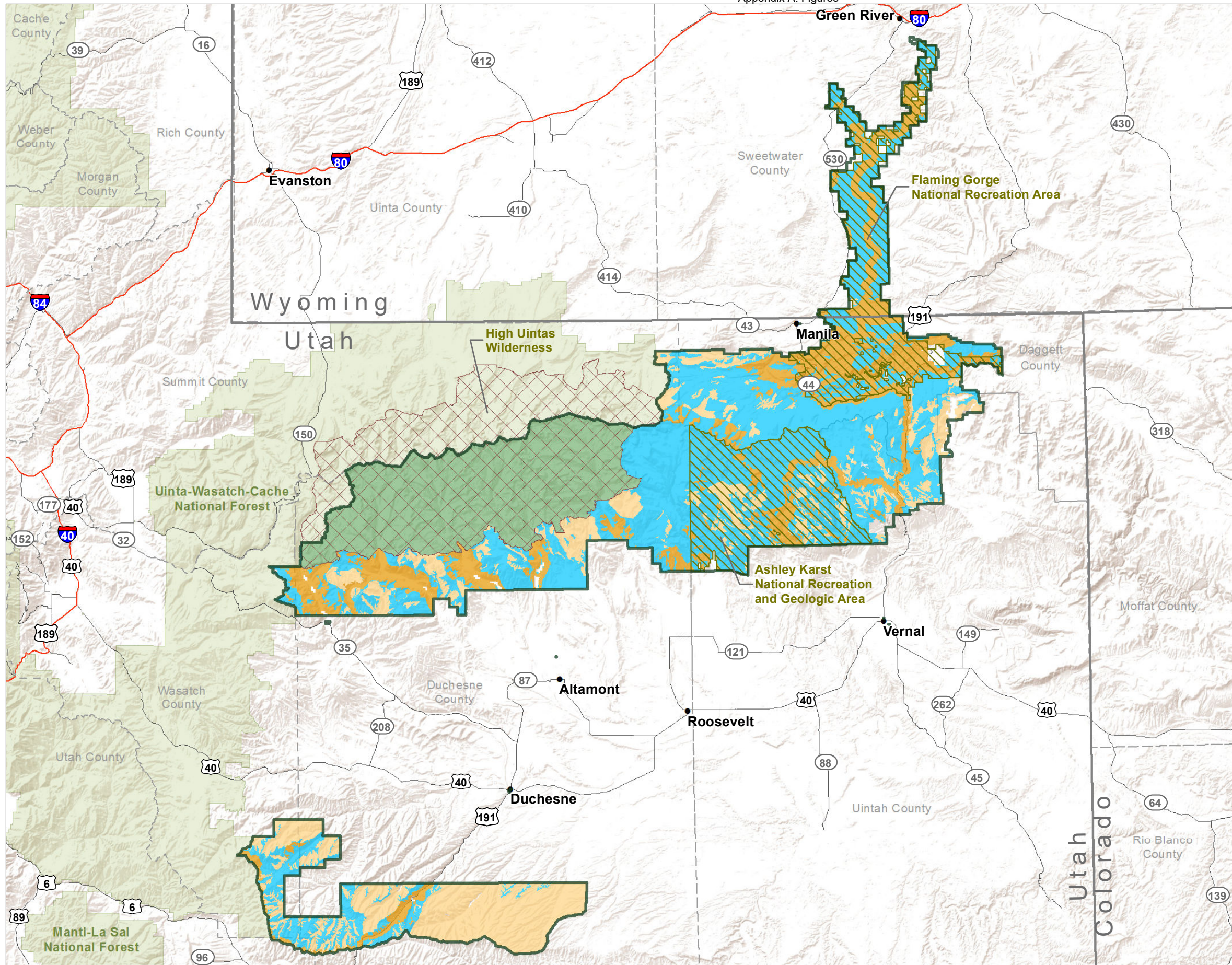
Figure 2-10
Alternative C: Scenic Integrity
Objective

- Very high
- High
- Moderate
- Low
- National Recreation Area
- Designated wilderness
- Ashley National Forest



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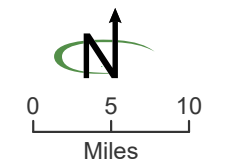


**Figure 2-11
Alternative D:
Scenic Integrity Objective**

- Very high
- High
- Moderate
- Low
- National Recreation Area
- Designated wilderness
- Ashley National Forest



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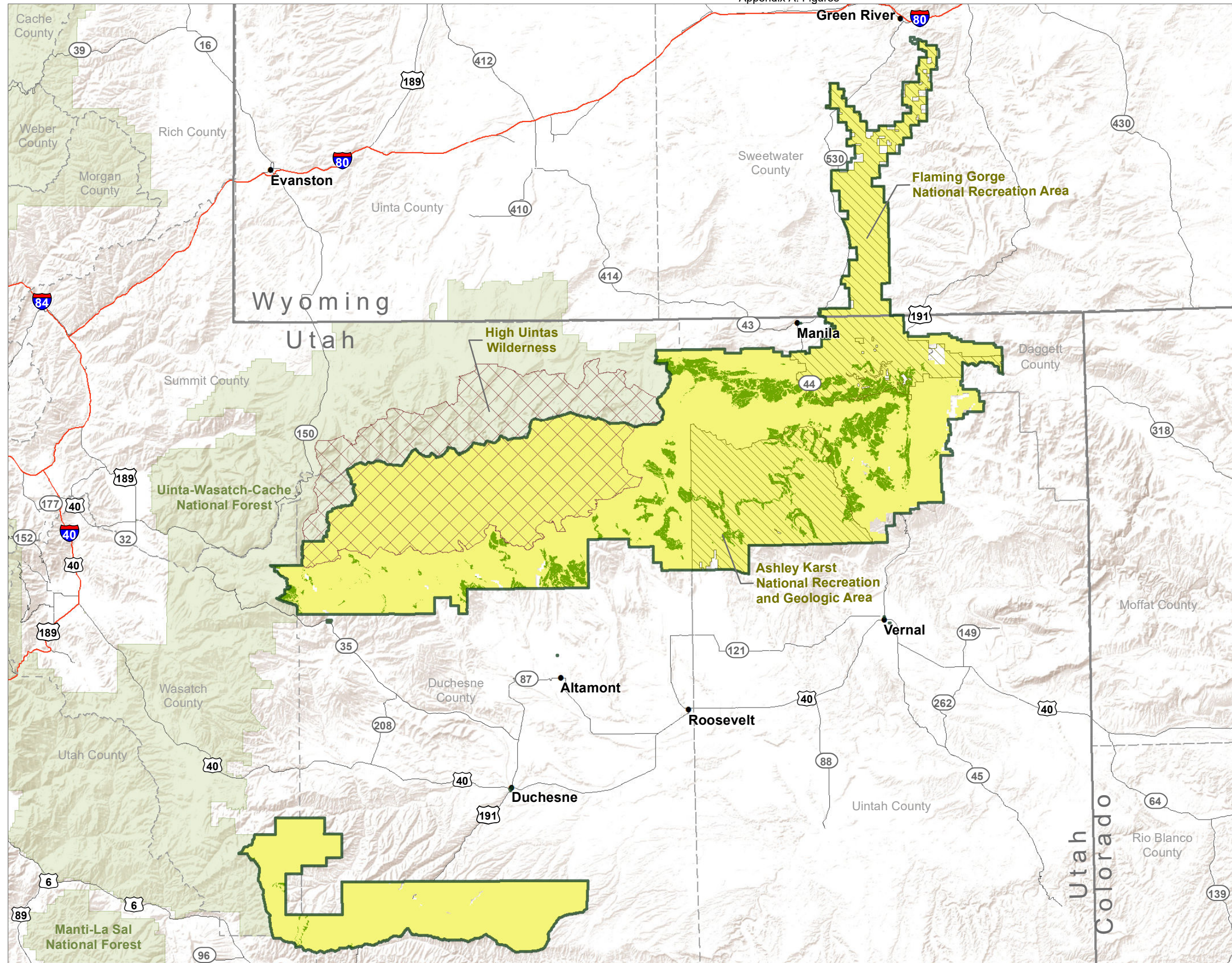
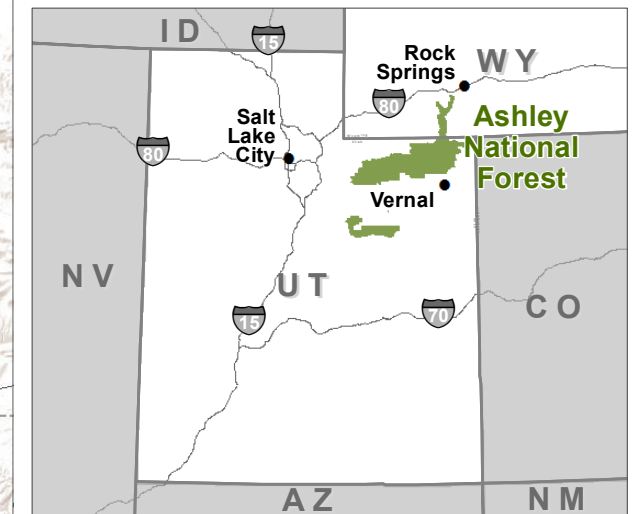
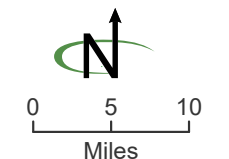


Figure 2-12
Alternative B Modified: Areas
Suitable for Timber Production

- Not suitable for timber production
- Suitable for timber production
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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 February 17, 2023
 Ashley_forestplan_alts_timber_suitability_AIB.pdf
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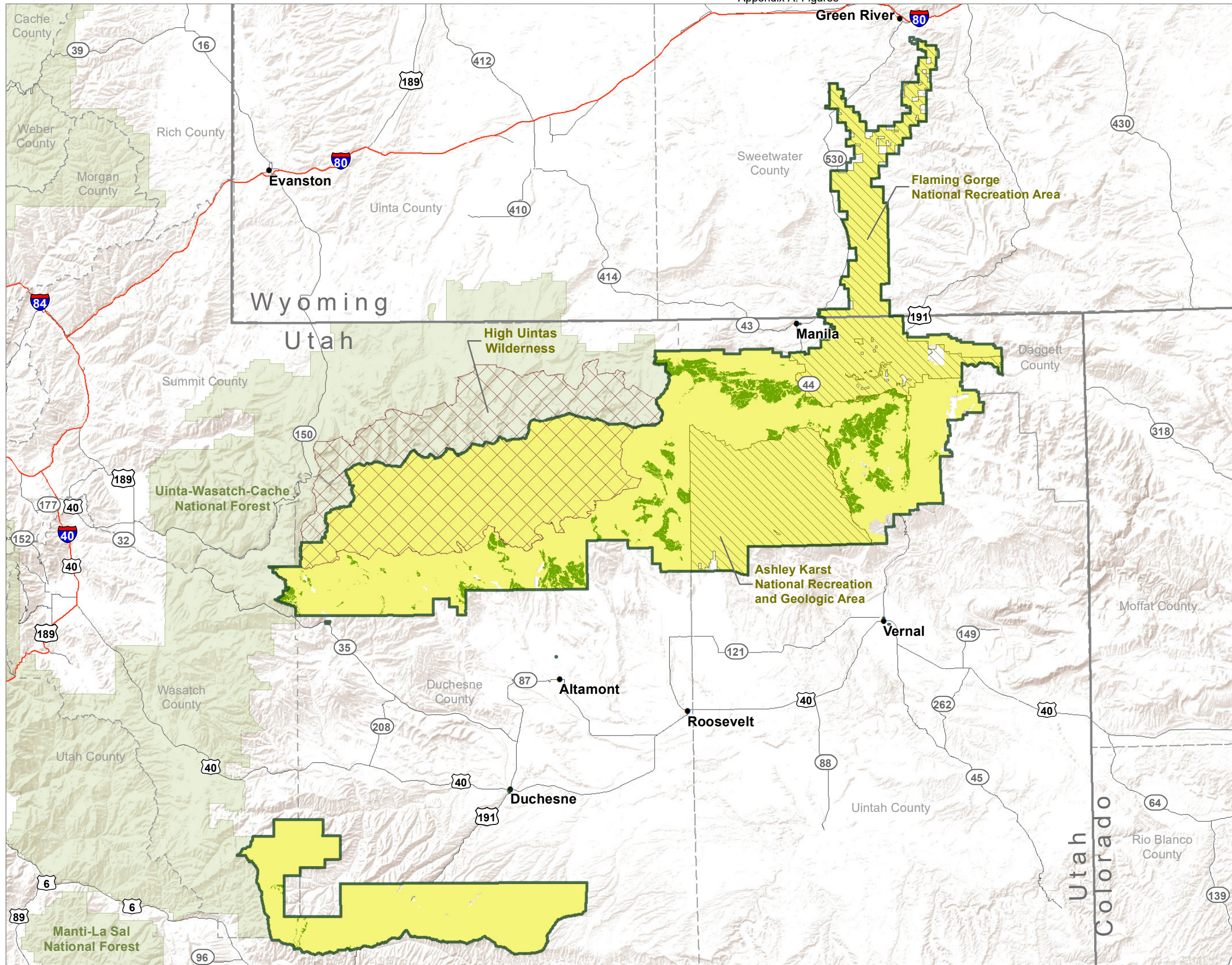
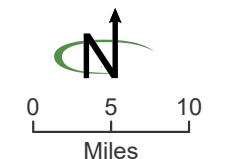


Figure 2-13
Alternative C: Areas Suitable for
Timber Production

- Not suitable for timber production
- Suitable for timber production
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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 Ashley_forestplan_alts_timber_suitability_A1C.pdf
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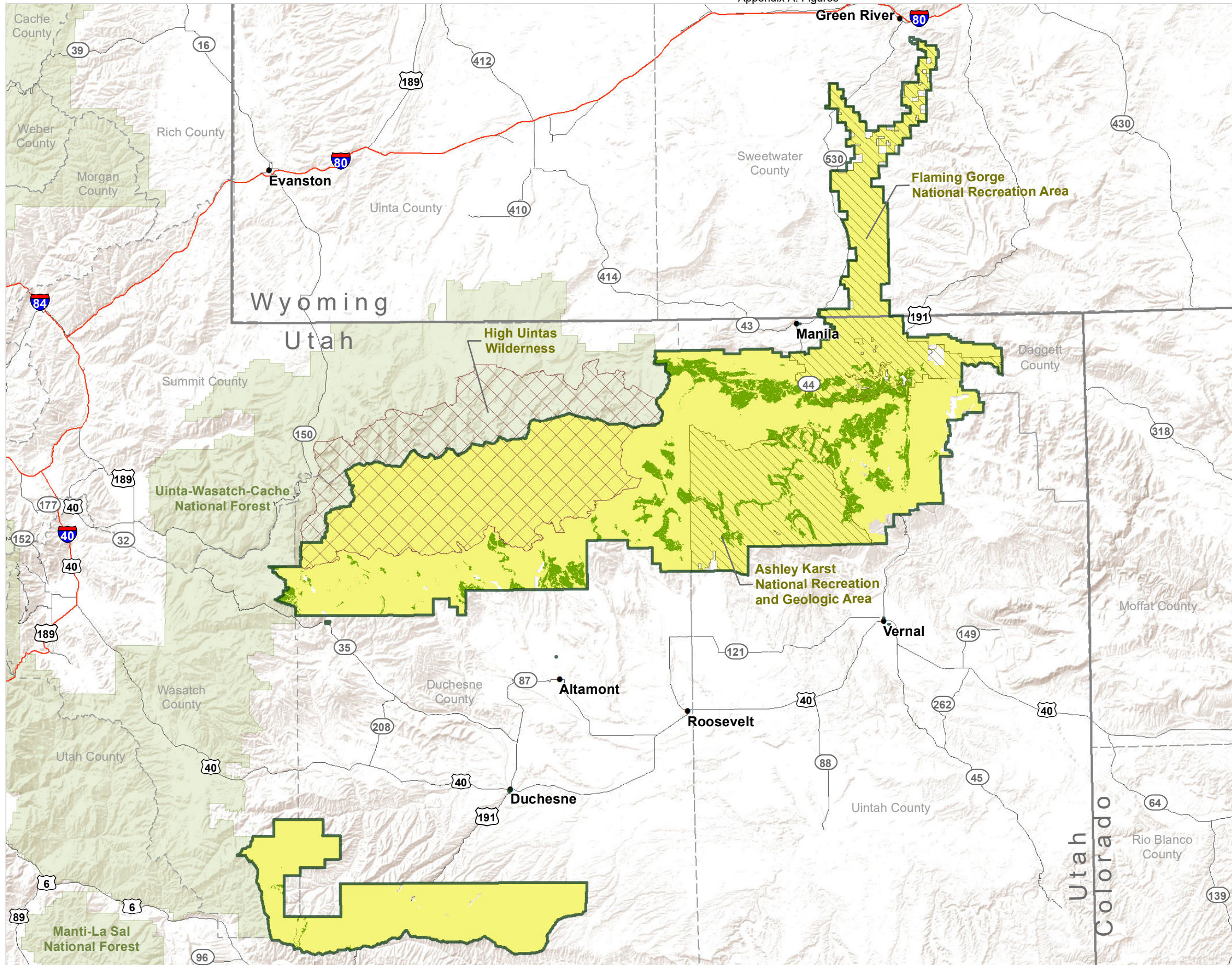
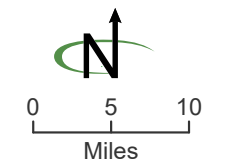


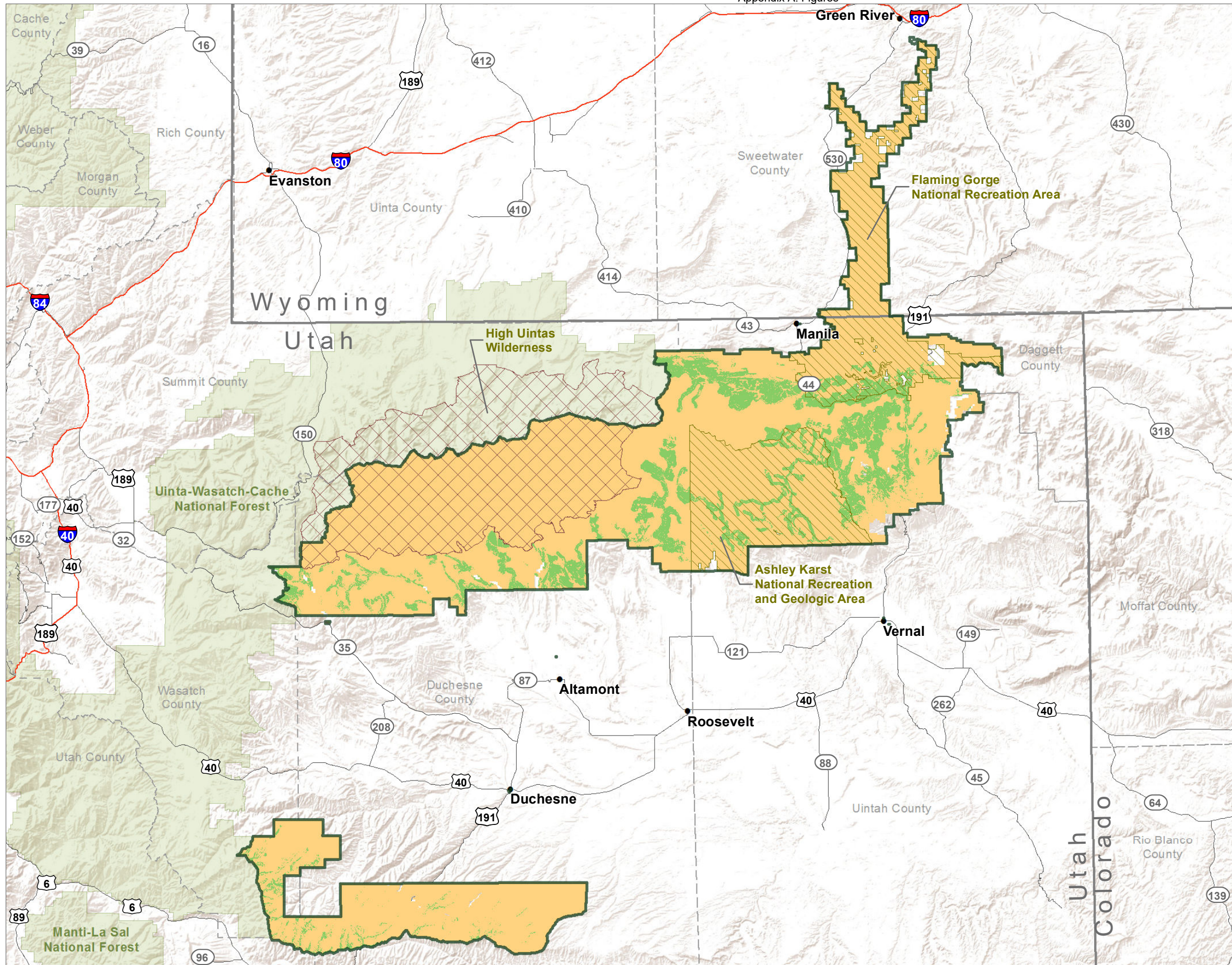
Figure 2-14
Alternative D: Areas Suitable for
Timber Production

- Not suitable for timber production
- Suitable for timber production
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



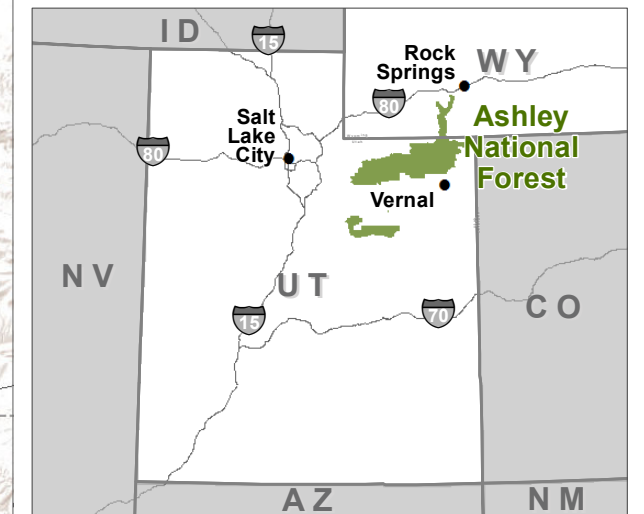
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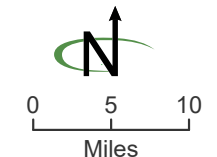


**Figure 2-15
Alternative B Modified:
Areas Suitable for Timber Harvest**

- Not suitable for timber harvest
- Suitable for timber harvest
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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Ashley_forestplan_alts_timber_harvest_AltB.pdf
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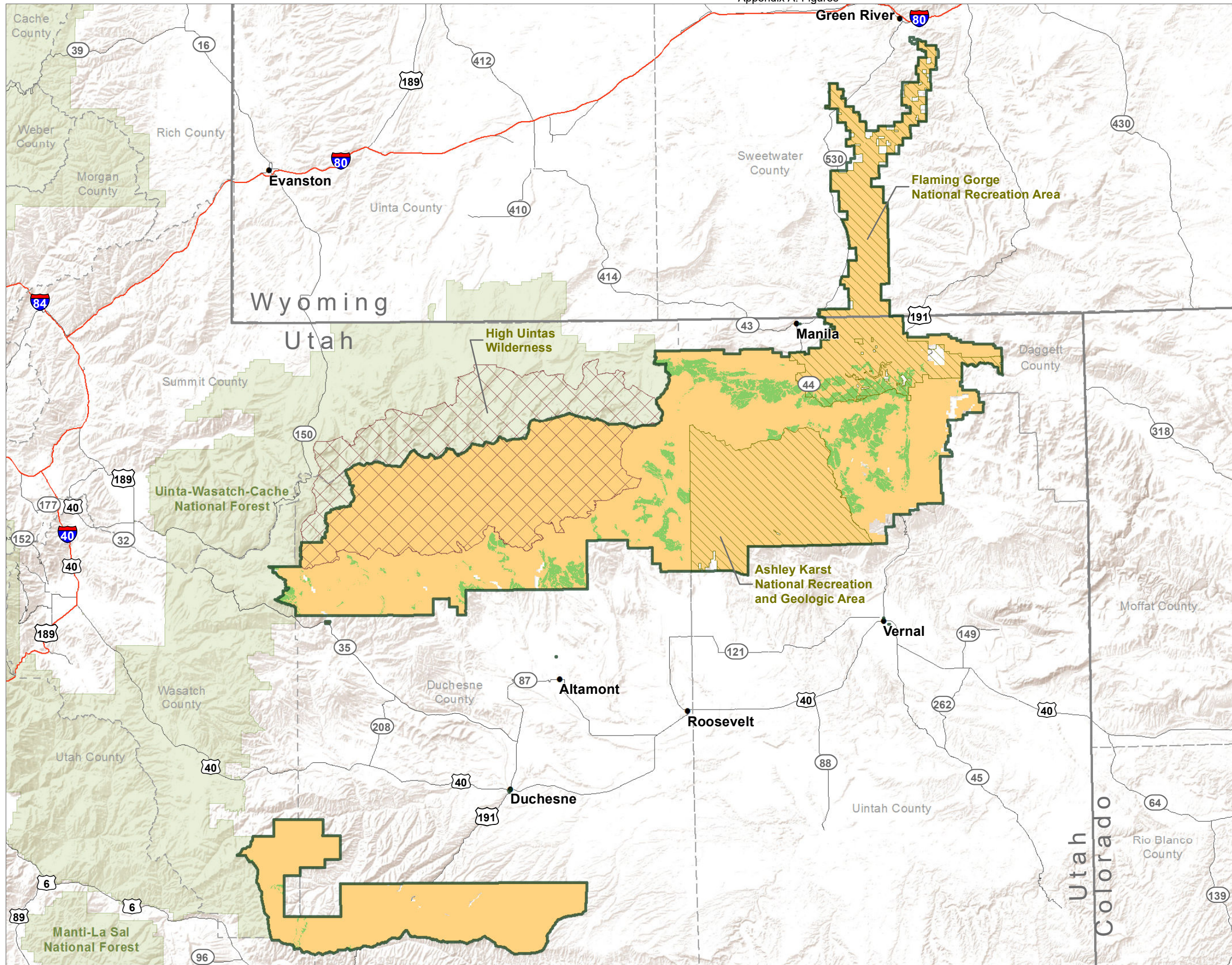
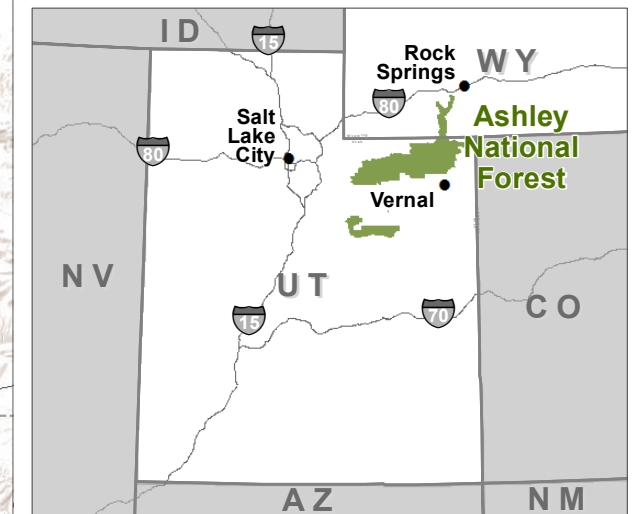
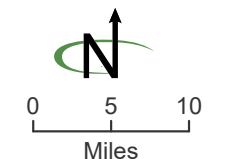


Figure 2-16
Alternative C: Areas Suitable for
Timber Harvest

- Not suitable for timber harvest
- Suitable for timber harvest
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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 February 17, 2023
 Ashley_forestplan_alts_timber_harvest_AltC.pdf
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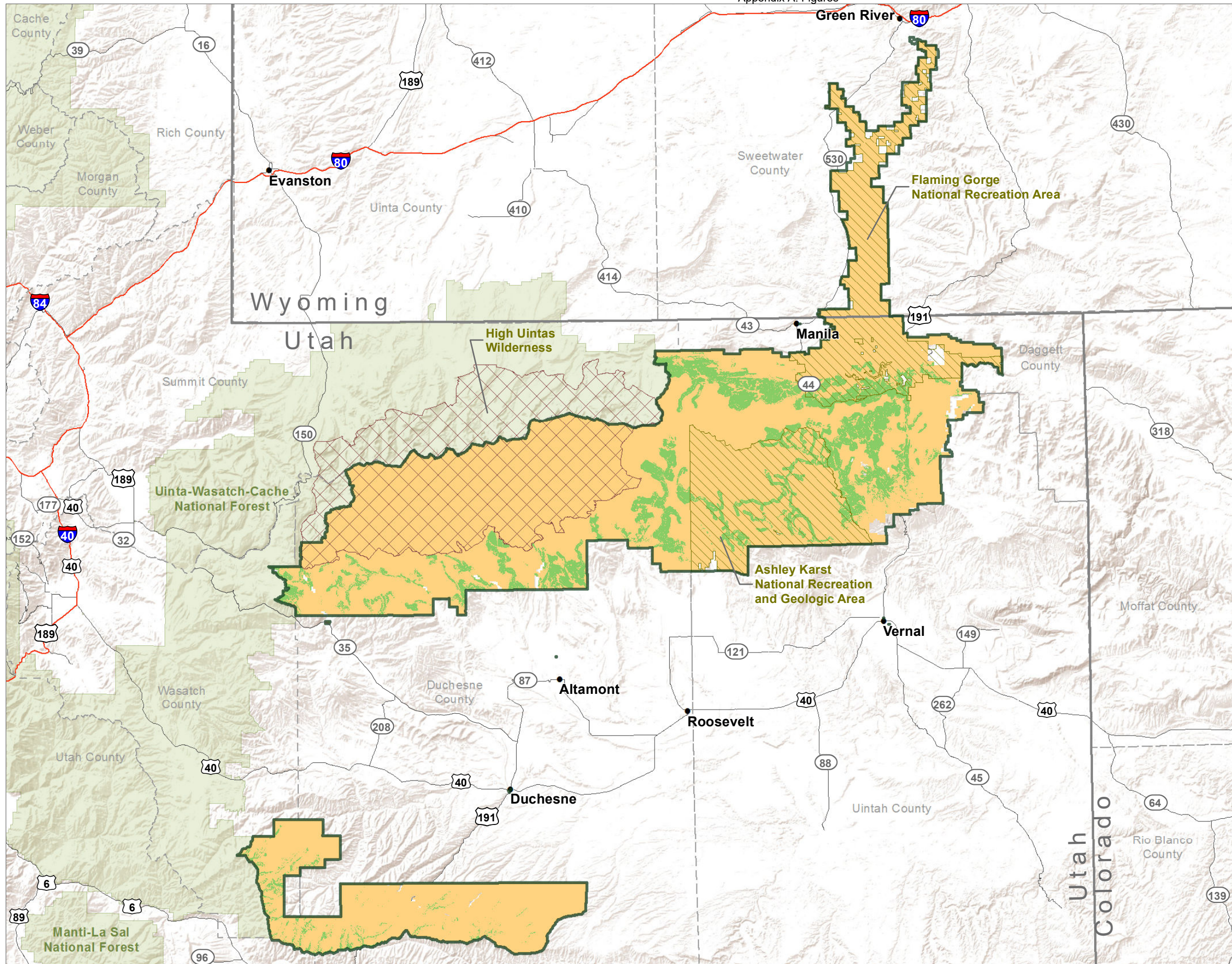
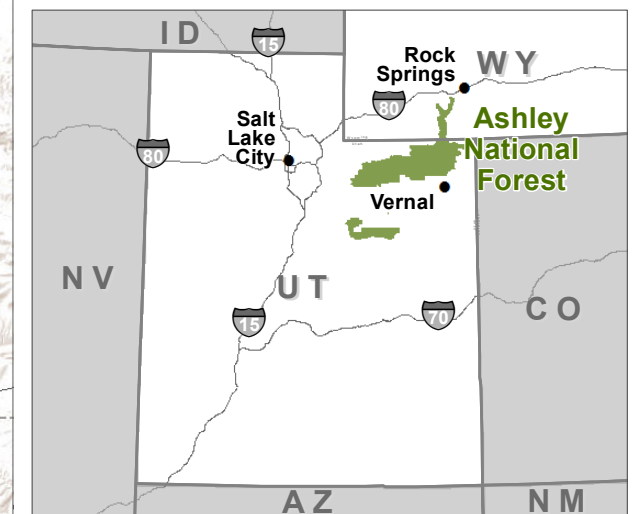
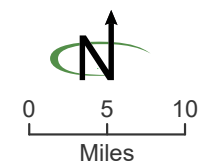


Figure 2-17
Alternative D: Areas Suitable for
Timber Harvest

- Not suitable for timber harvest
- Suitable for timber harvest
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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 Ashley_forestplan_alts_timber_harvest_AltD.pdf
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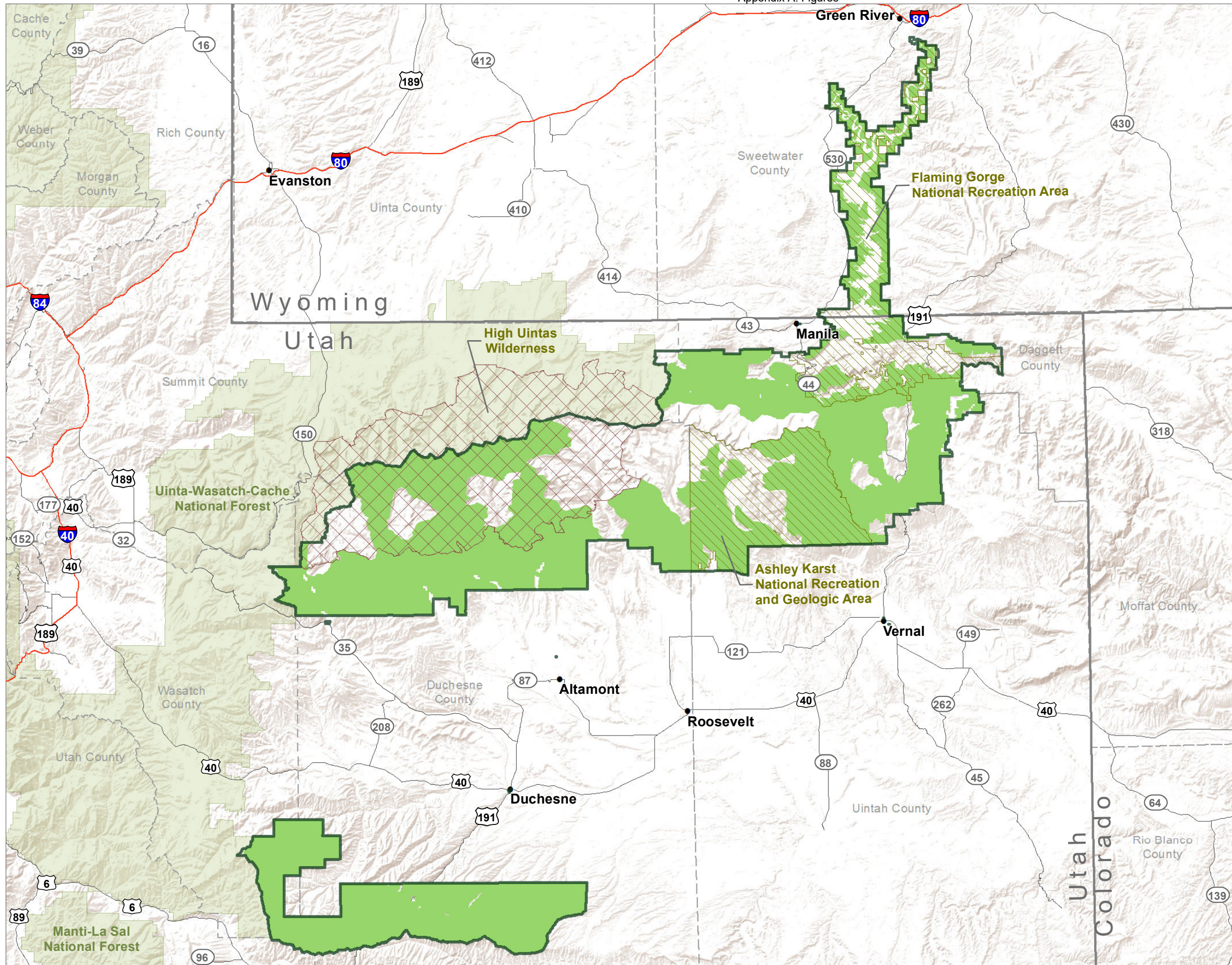




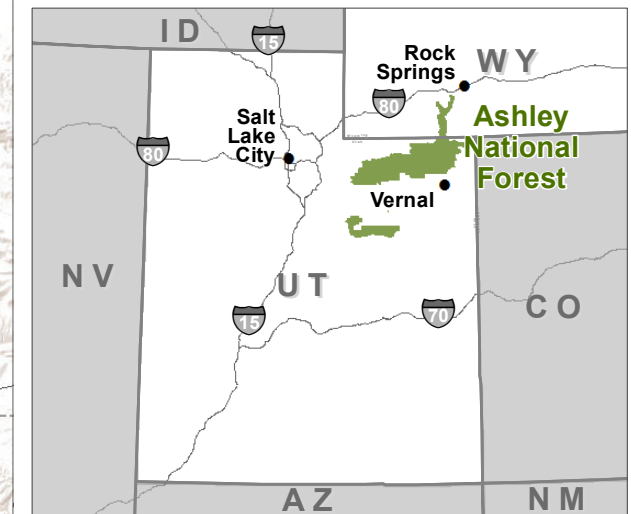
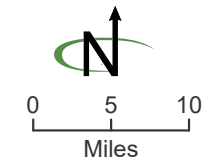


Figure 2-18
Alternatives A, B Modified, and D:
Grazing Allotments

-  Active
-  National Recreation Area
-  Designated Wilderness
-  Ashley National Forest



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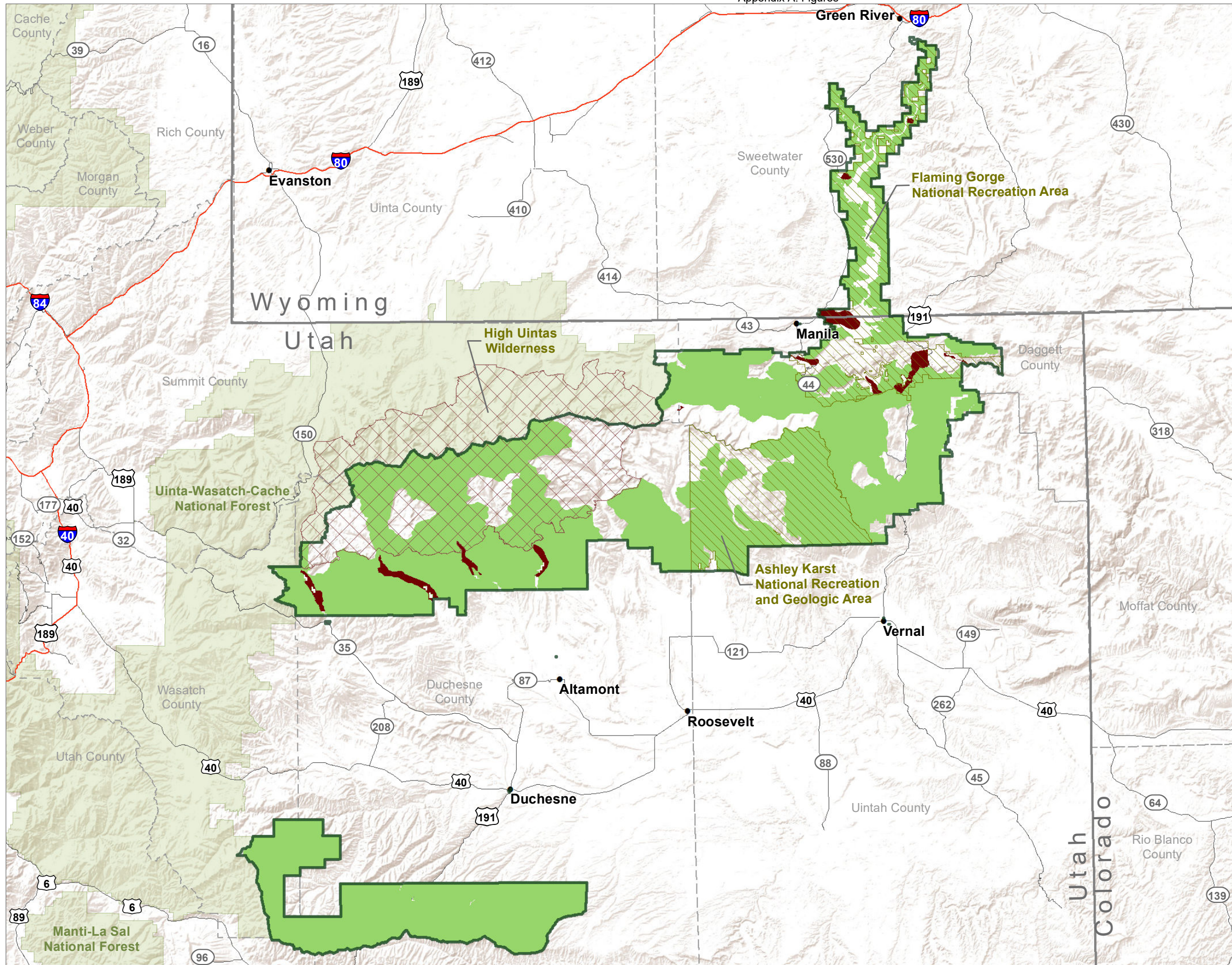





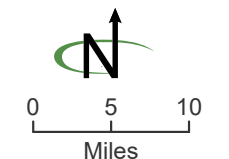


Figure 2-19
Alternative C: Grazing Allotments

-  Active
-  Closed, Destination Recreation MA
-  National Recreation Area
-  Designated Wilderness
-  Ashley National Forest



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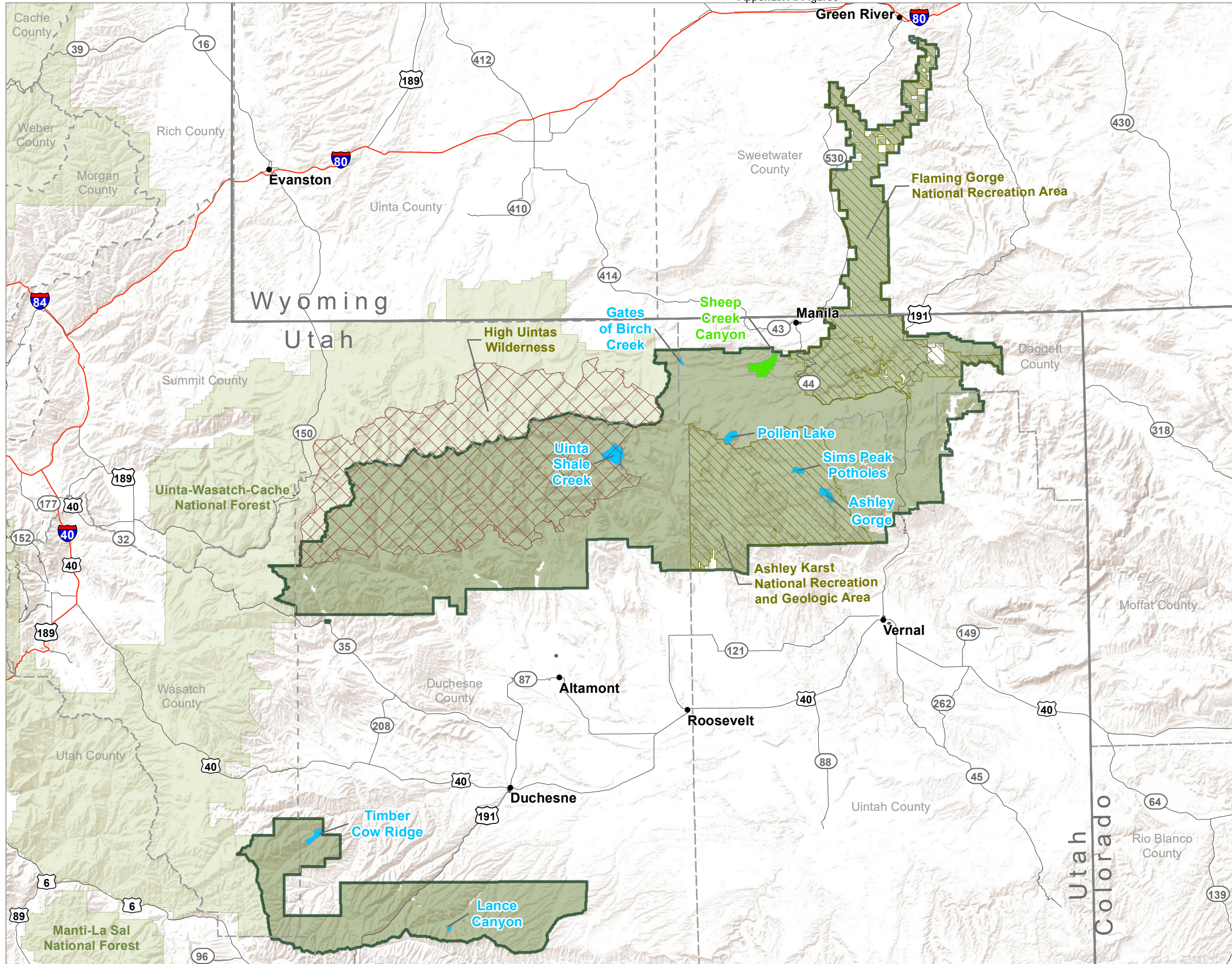
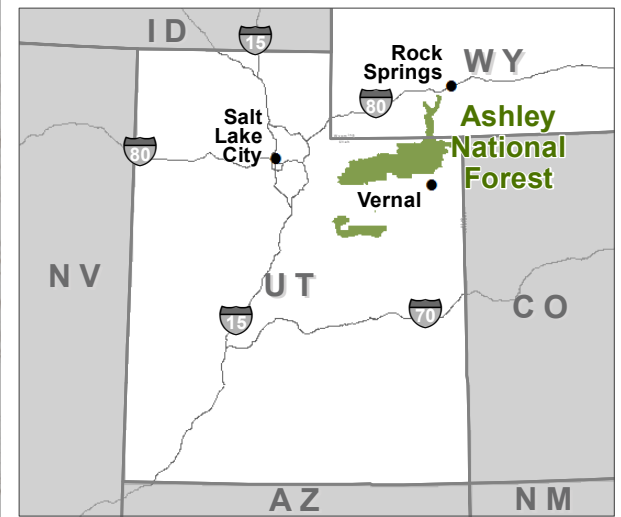
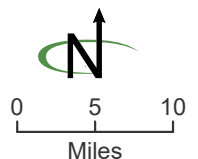


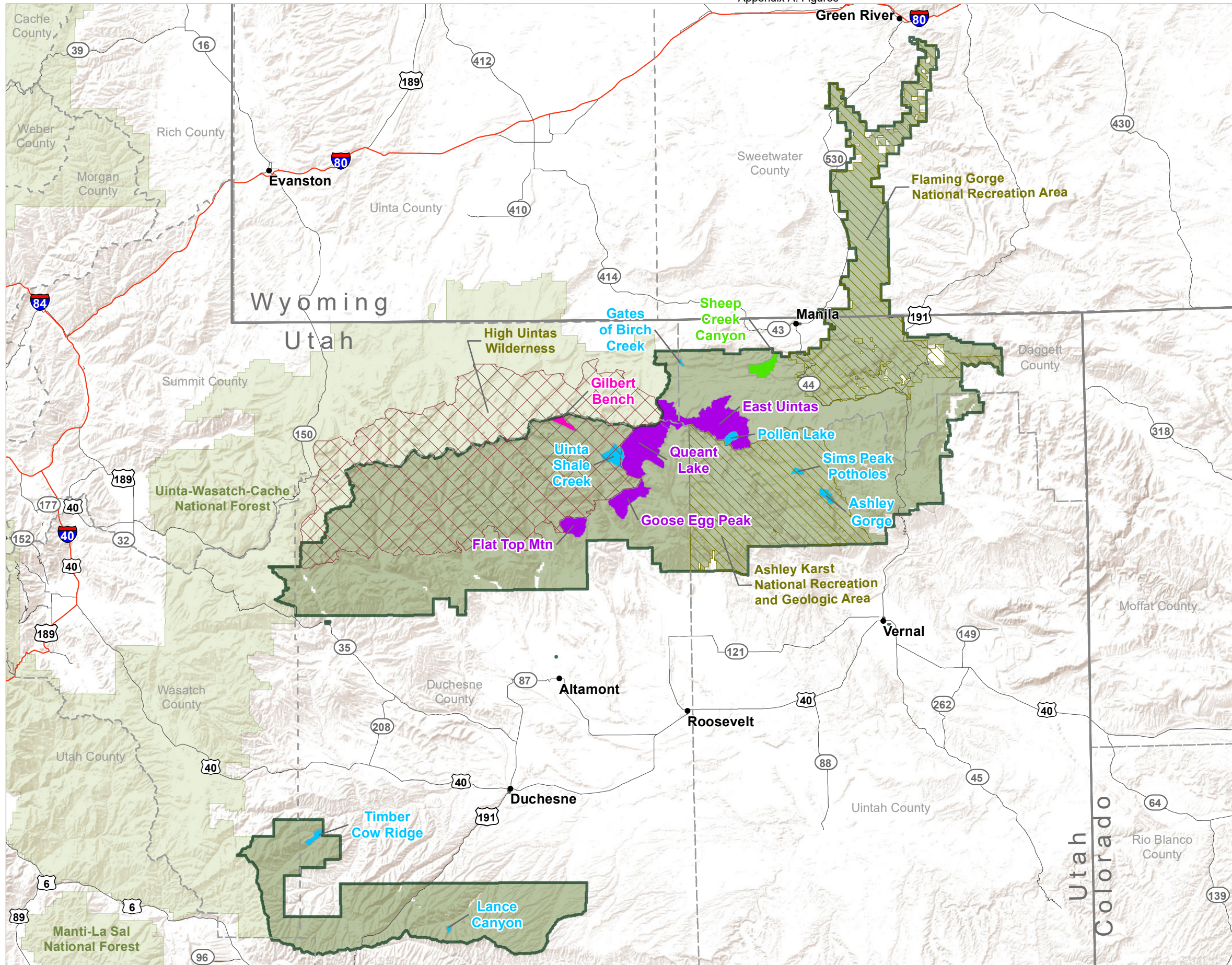
Figure 2-20
Alternatives A, B Modified, and D:
Existing Research Natural Areas

- Existing RNA
- Existing SMA
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



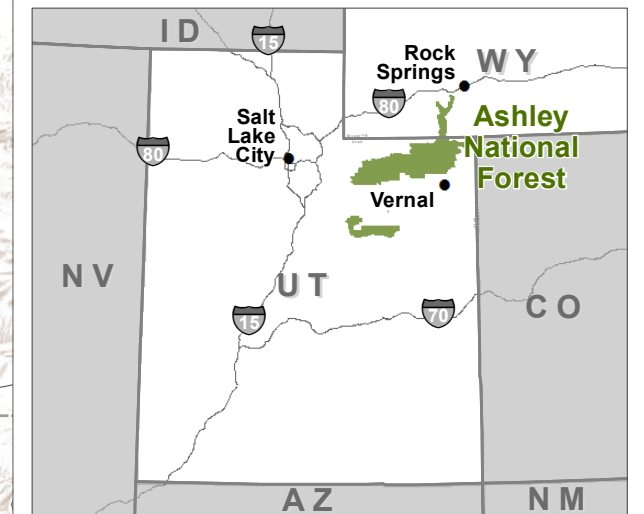
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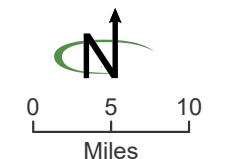


**Figure 2-21
Alternative C: Recommended
Wilderness Areas and Existing and
Proposed Research Natural Areas**

- Recommended wilderness areas
- Proposed RNA
- Existing RNA
- Existing Special Management Area
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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February 17, 2023
Ashley_forestplan_alts_wilderness_AltC.pdf
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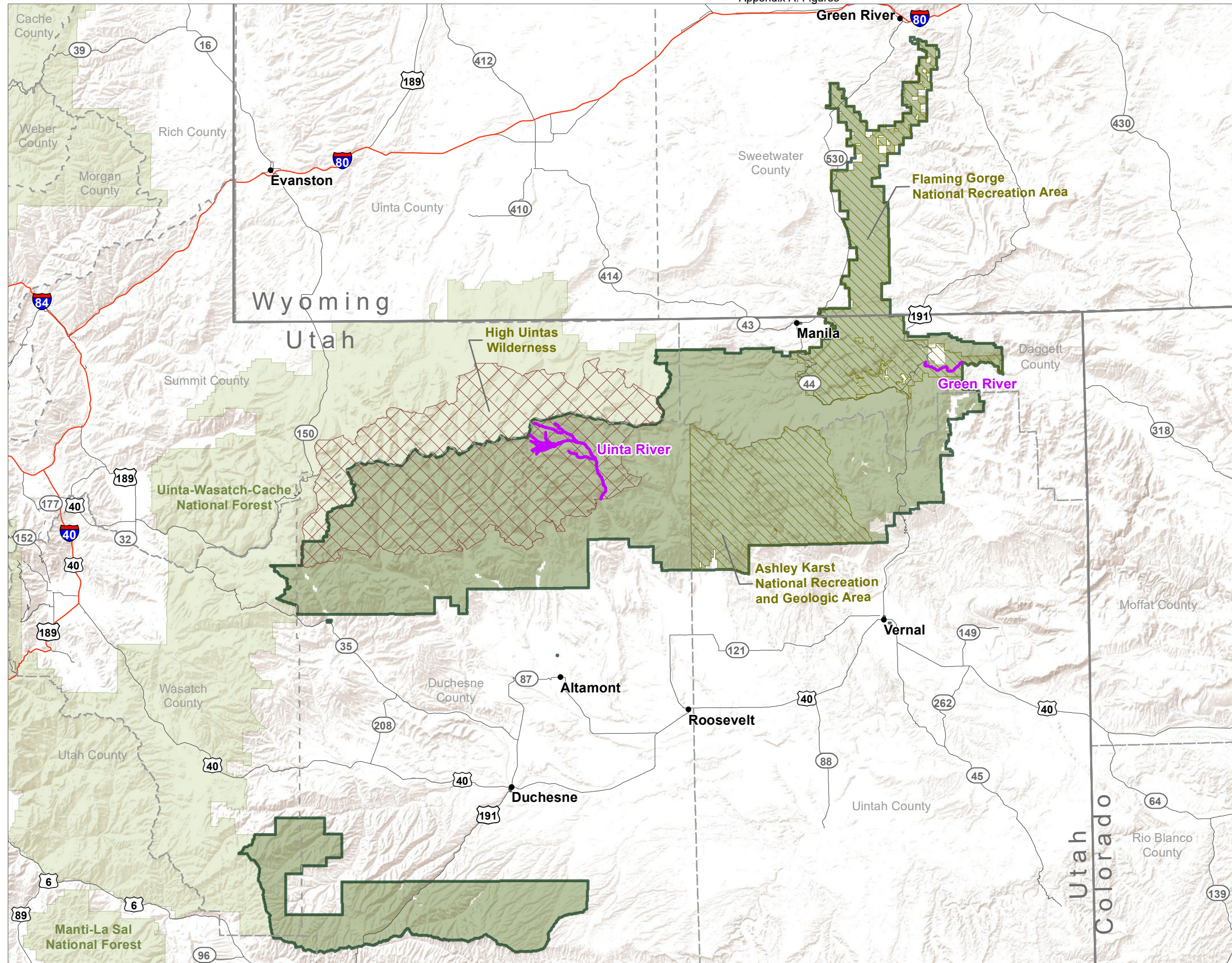




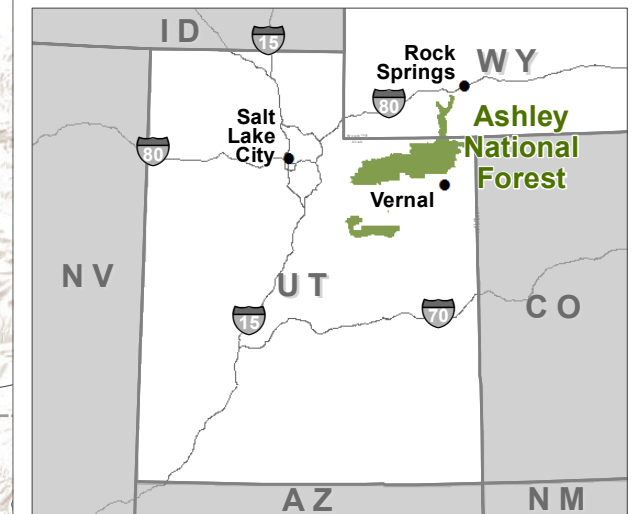
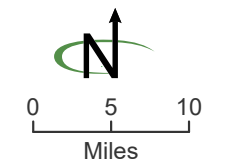


Figure 2-22
Alternatives A, B Modified, and D:
Existing Suitable Wild and
Scenic River Segments

-  Existing suitable wild and scenic river (WSR) segment
-  National Recreation Area
-  Designated Wilderness
-  Ashley National Forest



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 February 17, 2023
 Ashley_forestplan_alts_WSR_AltAAIBAtID.pdf
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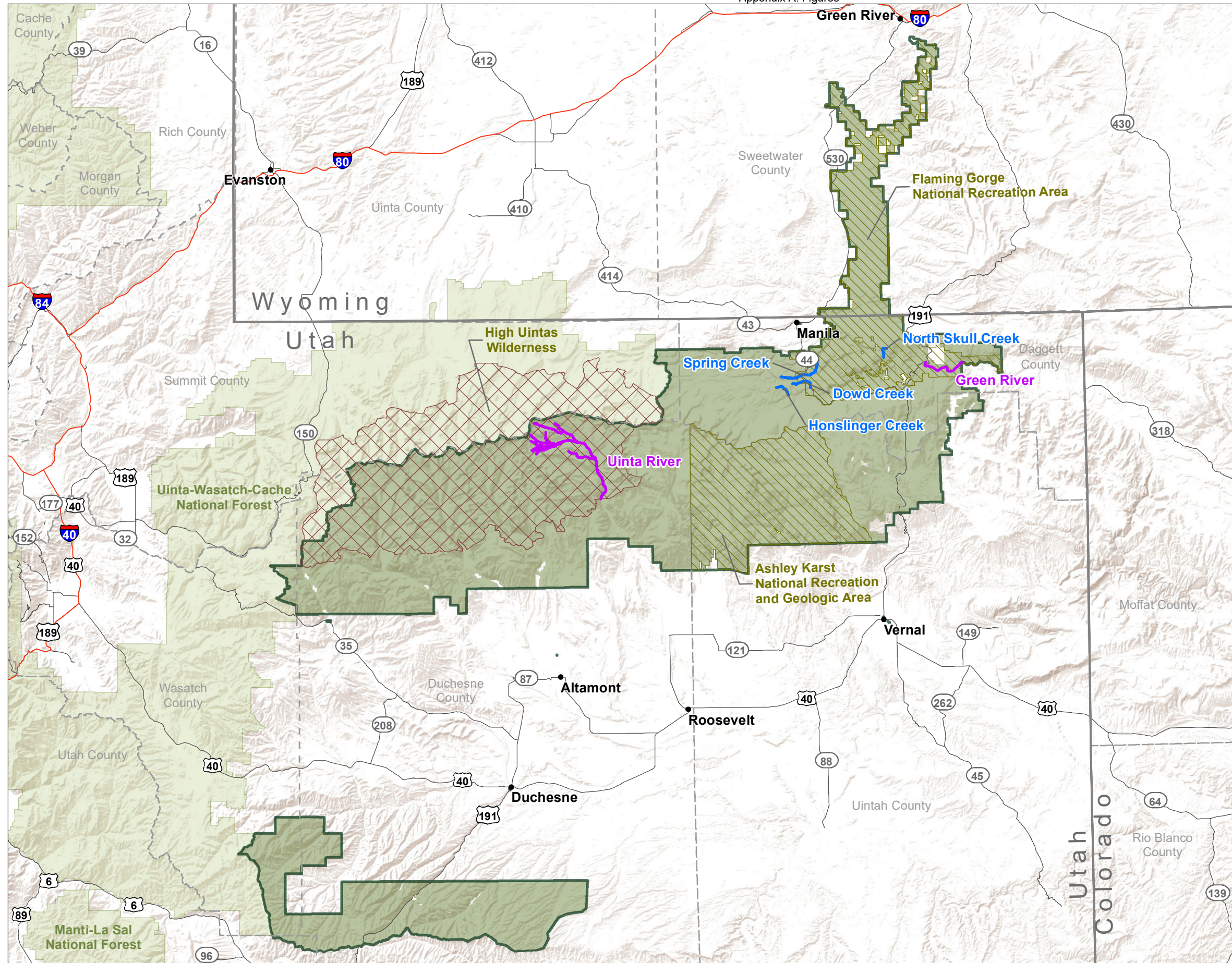
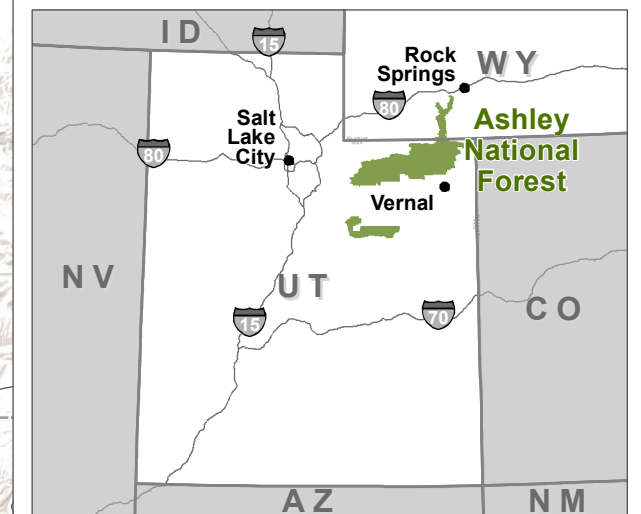
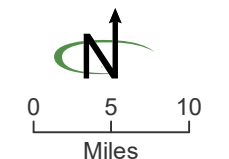


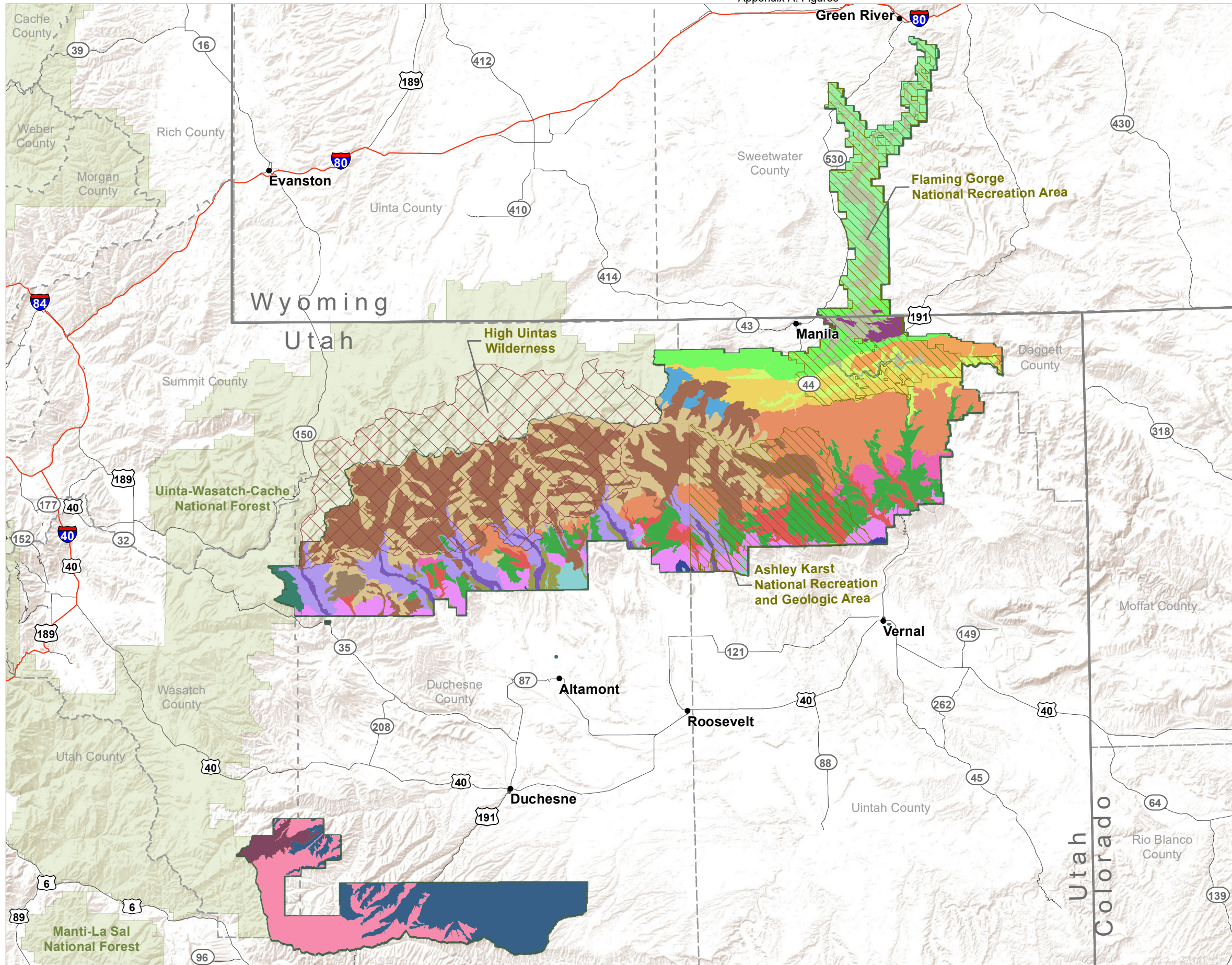
Figure 2-23
Alternative C: Existing Suitable and Eligible Wild and Scenic River Segments

- Existing suitable wild and scenic river (WSR) segment
- Eligible WSR
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



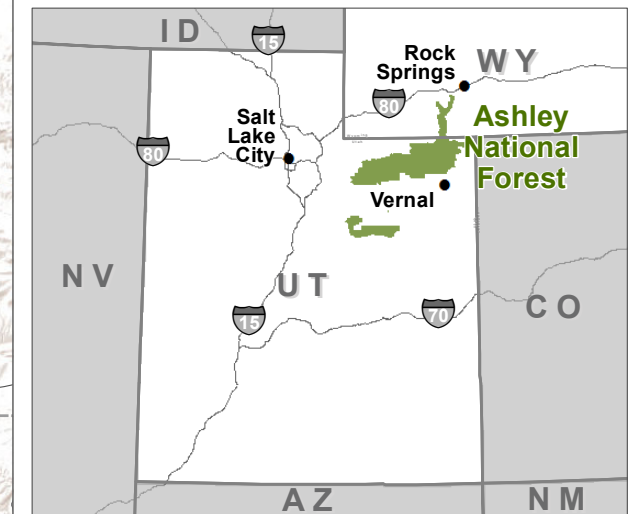
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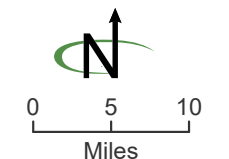


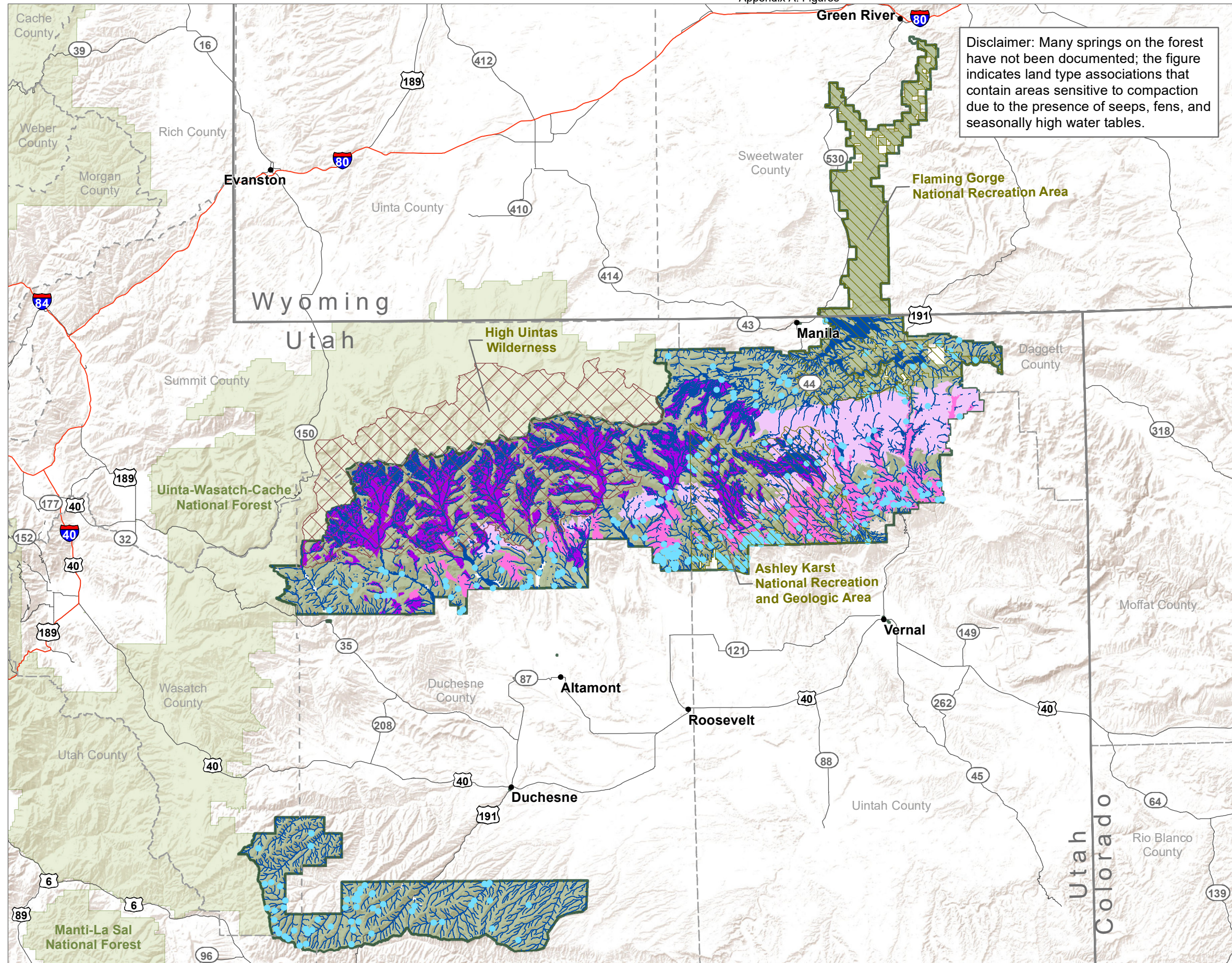
**Figure 3-3
Land Type Associations**

- | | |
|----------------------|------------------|
| Avintaquin Canyon | Moenkopi Hills |
| Antelope Flats | Dry Moraine |
| Alpine Moraine | North Flank |
| Anthro Plateau | Parks Plateau |
| Limestone Plateau | Red Canyon |
| Glacial Bottom | Round Park |
| Strawberry Highlands | Steam Canyon |
| Glacial Canyons | South Face |
| Greendale Plateau | Structural Grain |
| Green River | Trout Slope |
| Stream Pediment | Uinta Bollie |
| Limestone Hills | Wolf Plateau |
-
- National Recreation Area
 - Designated wilderness
 - Ashley National Forest



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November 02, 2022
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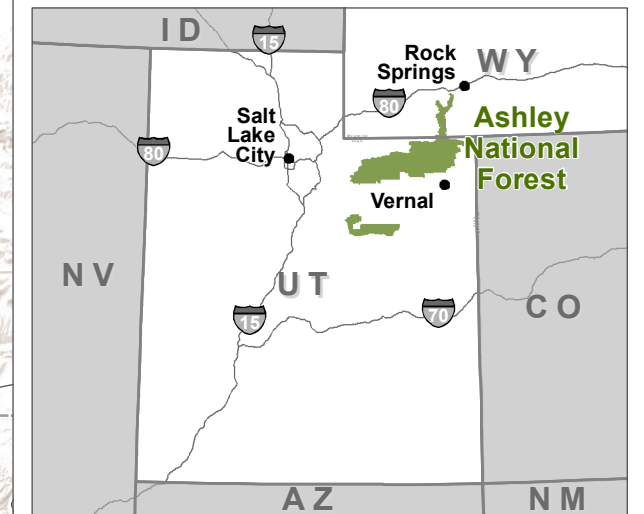




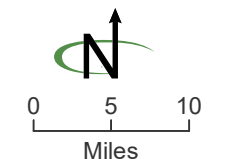
Disclaimer: Many springs on the forest have not been documented; the figure indicates land type associations that contain areas sensitive to compaction due to the presence of seeps, fens, and seasonally high water tables.

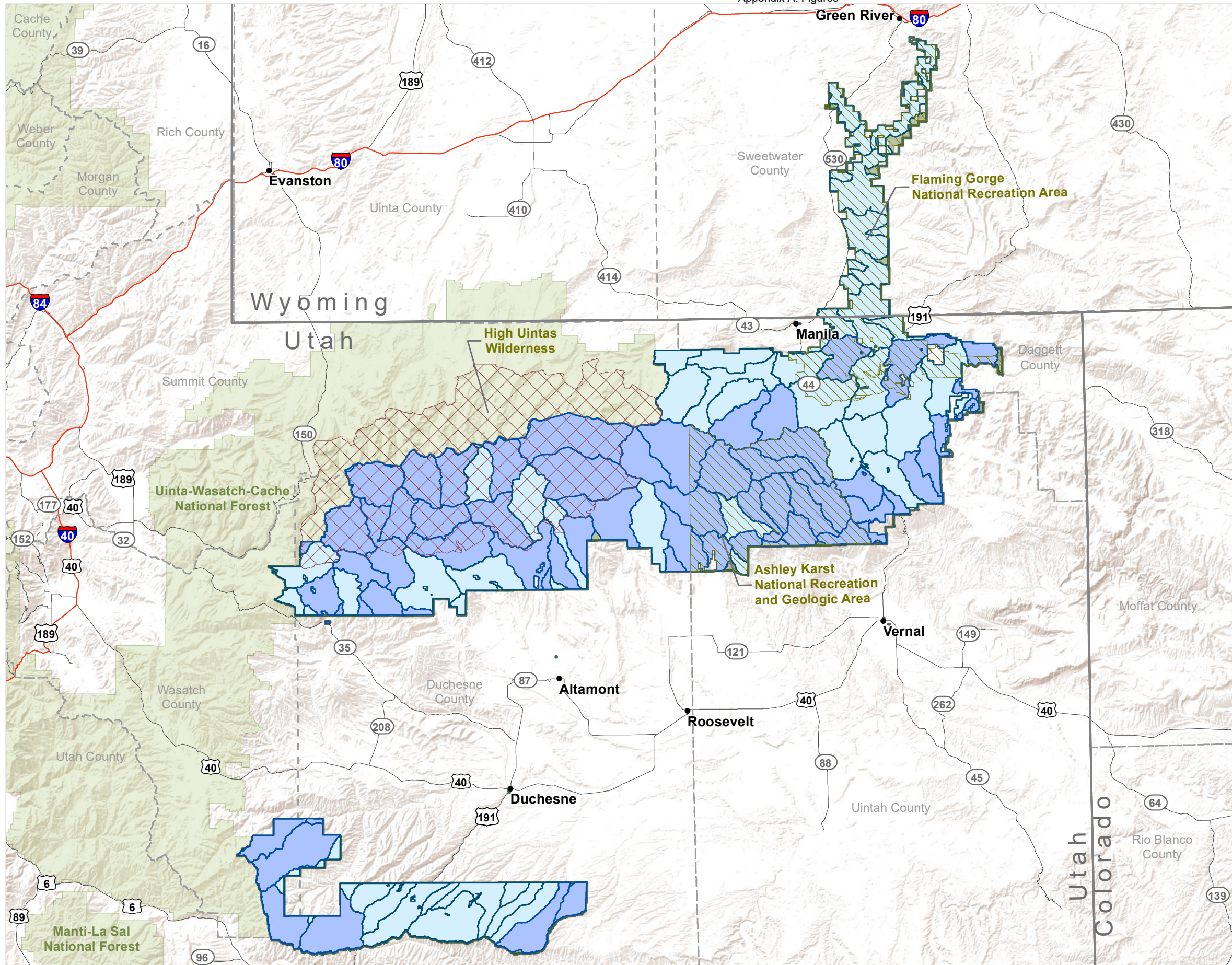
Figure 3-4
Areas Most Sensitive to Soil Compaction

- Spring
- Fen/wetland
- Highly concentrated seeps
- Highly concentrated high water table areas
- Areas with both seeps and high water table areas
- National Recreation Area
- Designated wilderness
- Ashley National Forest



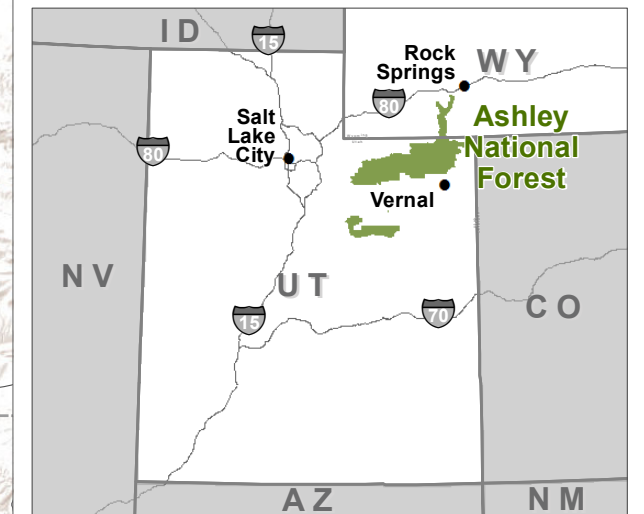
Source: Forest Service GIS 2020
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 Ashley_forestplan_AE_soils_compaction.pdf
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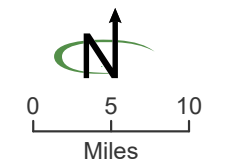


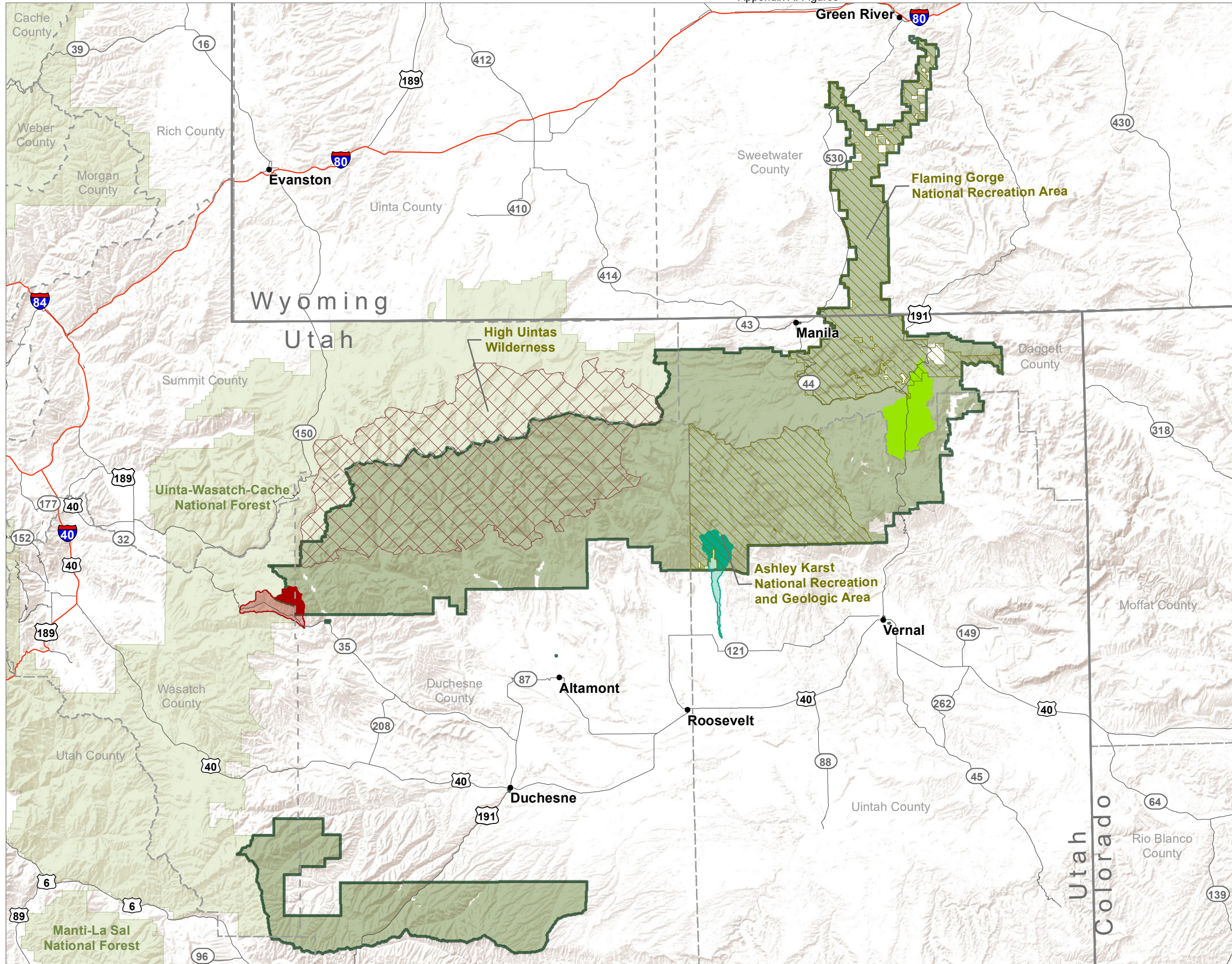
**Figure 3-5
Watershed Condition Ratings**

- Functioning properly
- Functioning at risk
- National Recreation Area
- Designated wilderness
- Ashley National Forest



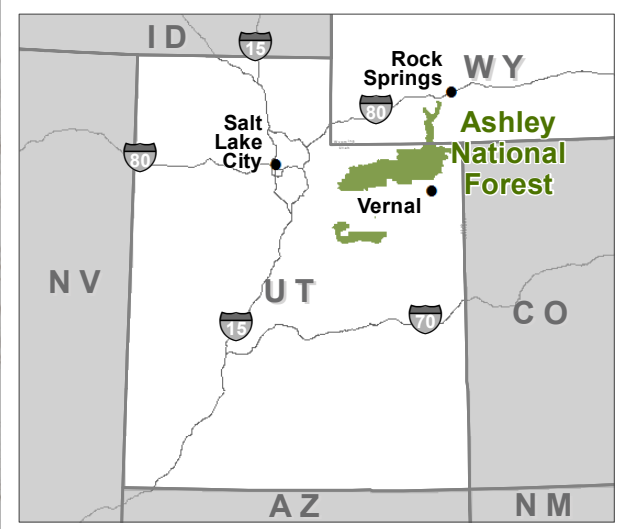
Source: Forest Service GIS 2020
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 Ashley_forestplan_AE_hydro_watershedcondition.pdf
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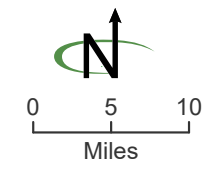


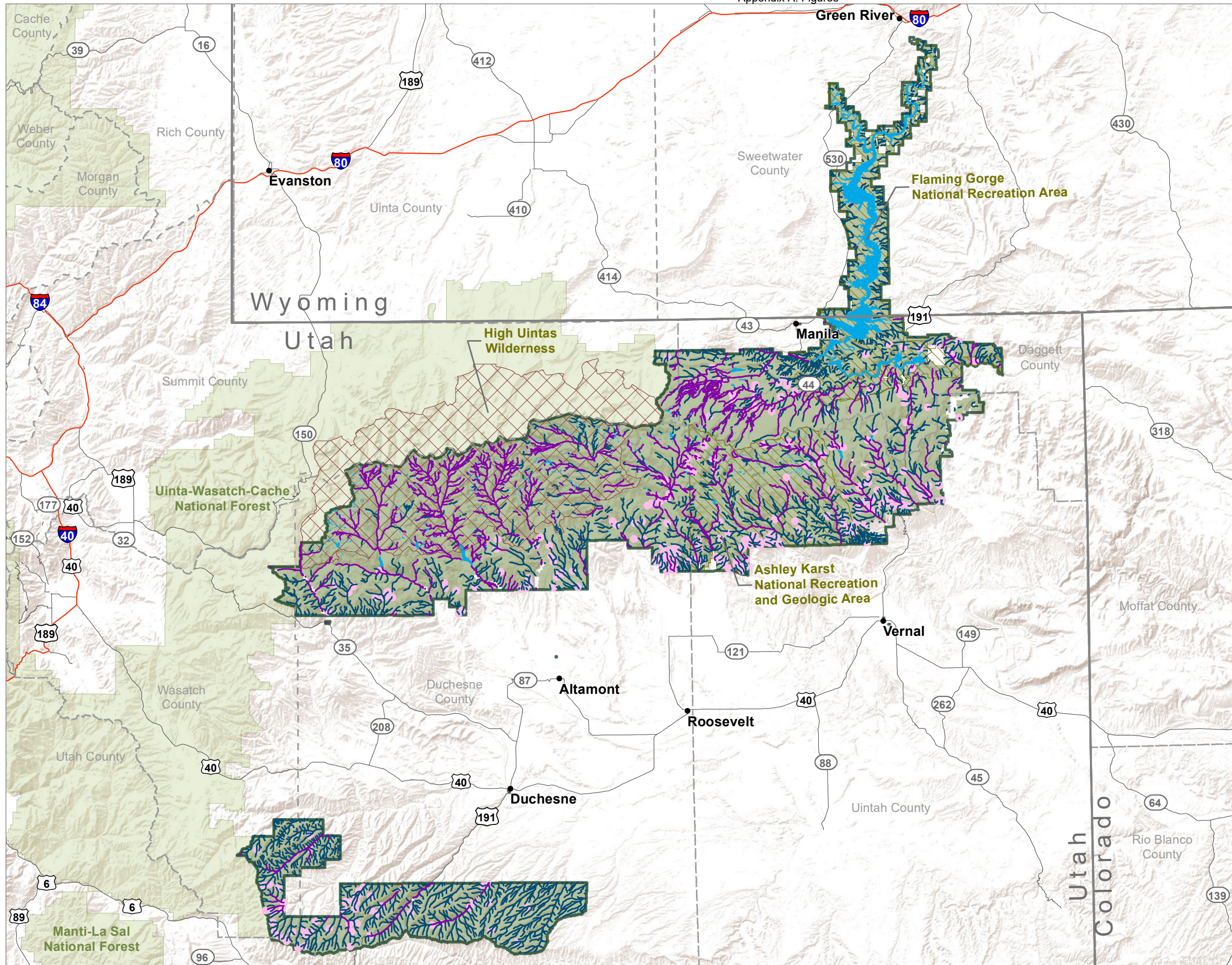
**Figure 3-6
Priority Watersheds**

- Cart Creek
- Whiterocks River
- Wolf Creek
- National Recreation Area
- Designated wilderness
- Ashley National Forest





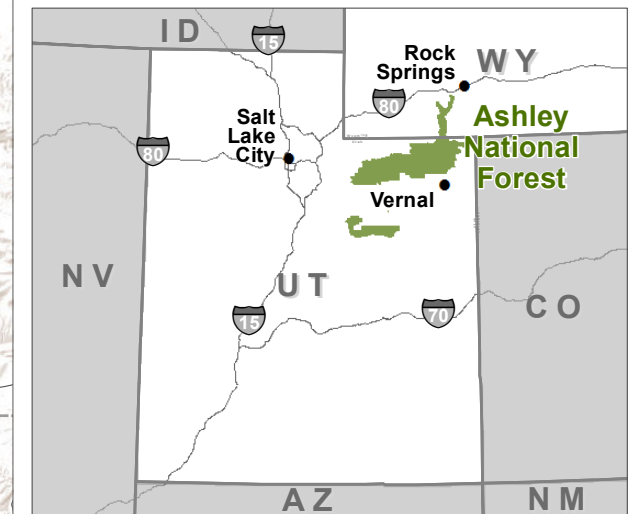
Source: Forest Service GIS 2020
November 02, 2022
Ashley_forestplan_AE_hydro_prioritywatersheds.pdf
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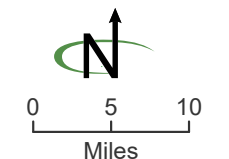


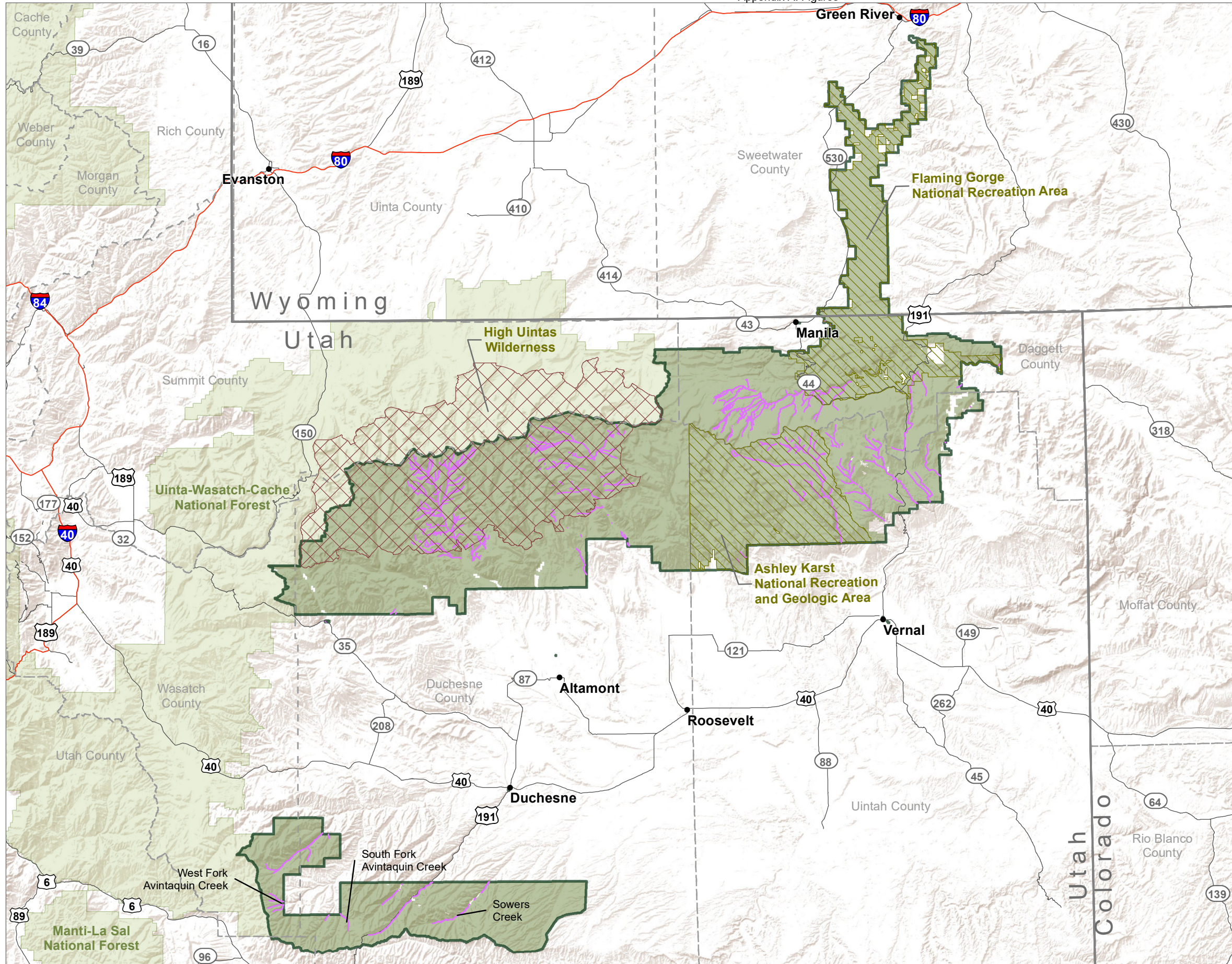
**Figure 3-7
Streams and Waterbodies**

-  Intermittent
-  Perennial
-  Spring or seep
-  Waterbody
-  National Recreation Area
-  Designated wilderness
-  Ashley National Forest







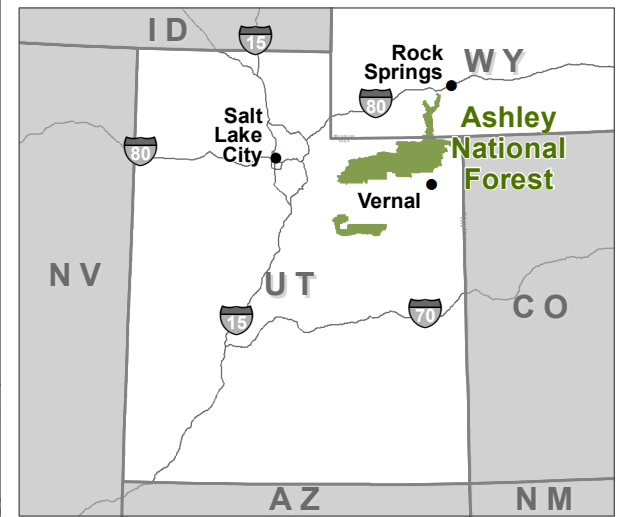
Source: Forest Service GIS 2020
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 Ashley_forestplan_AE_hydro_StreamsWaterbodies.pdf
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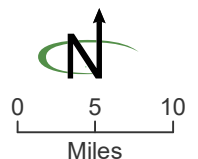


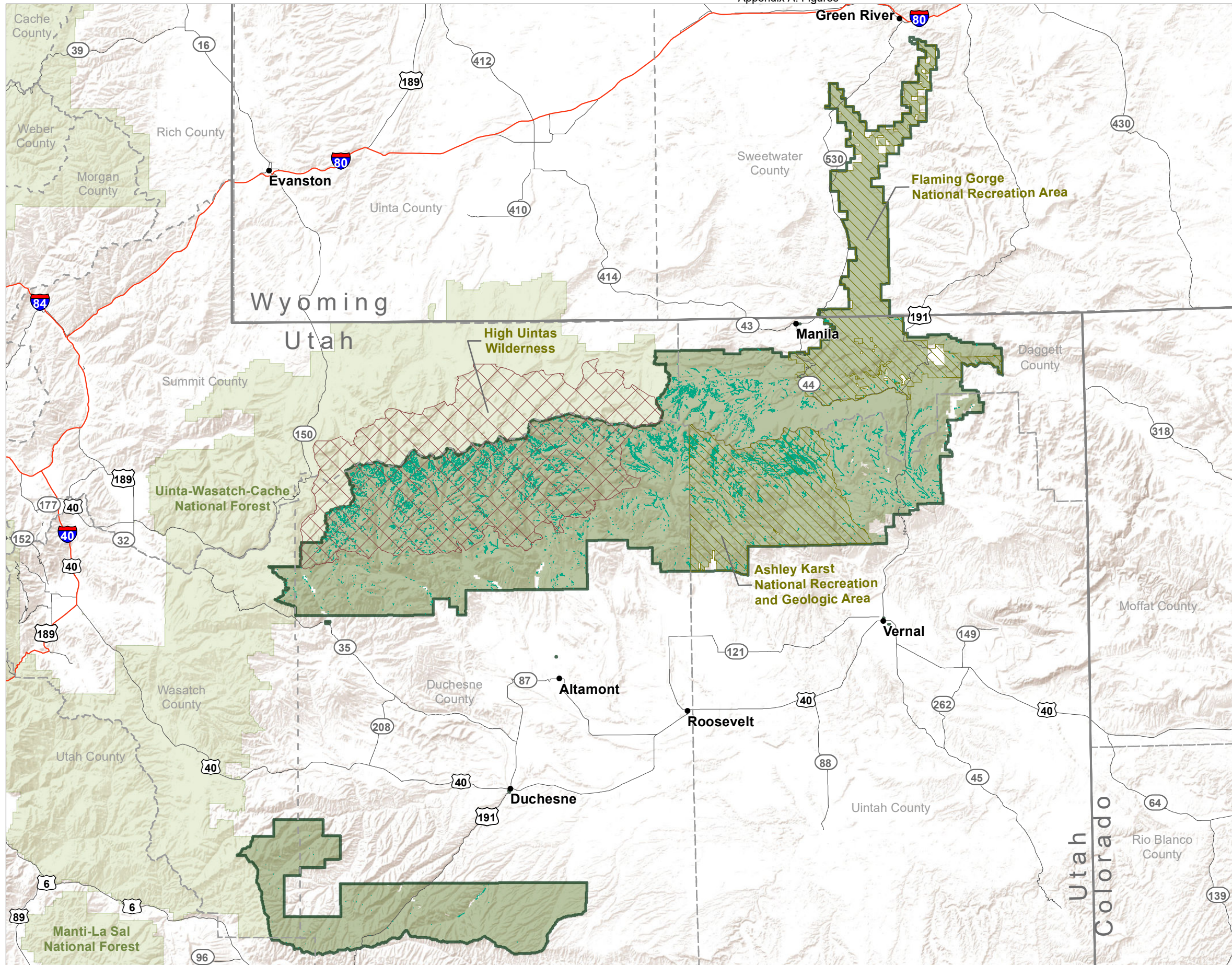
**Figure 3-8
Impaired Streams**

-  Utah Division of Water Quality 303(d) listed impaired perennial waters, pending EPA designation
-  National Recreation Area
-  Designated wilderness
-  Ashley National Forest



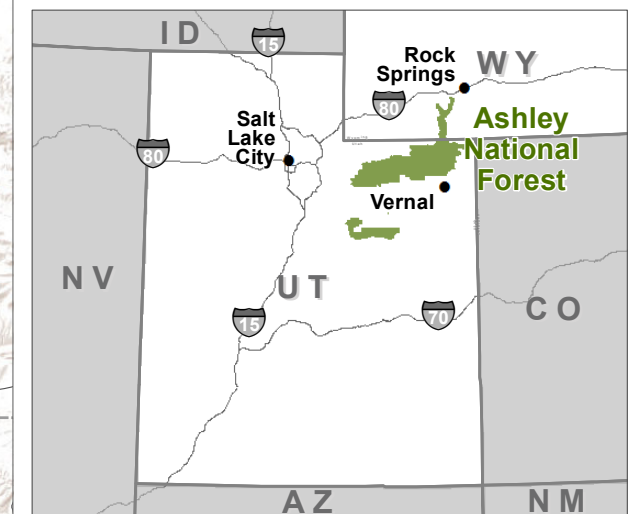
Source: EPA GIS 2020, Forest Service GIS 2020
 February 28, 2023
 Ashley_forestplan_AE_hydro_impairedstreams.pdf
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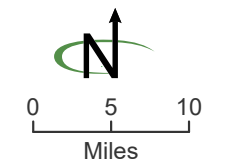


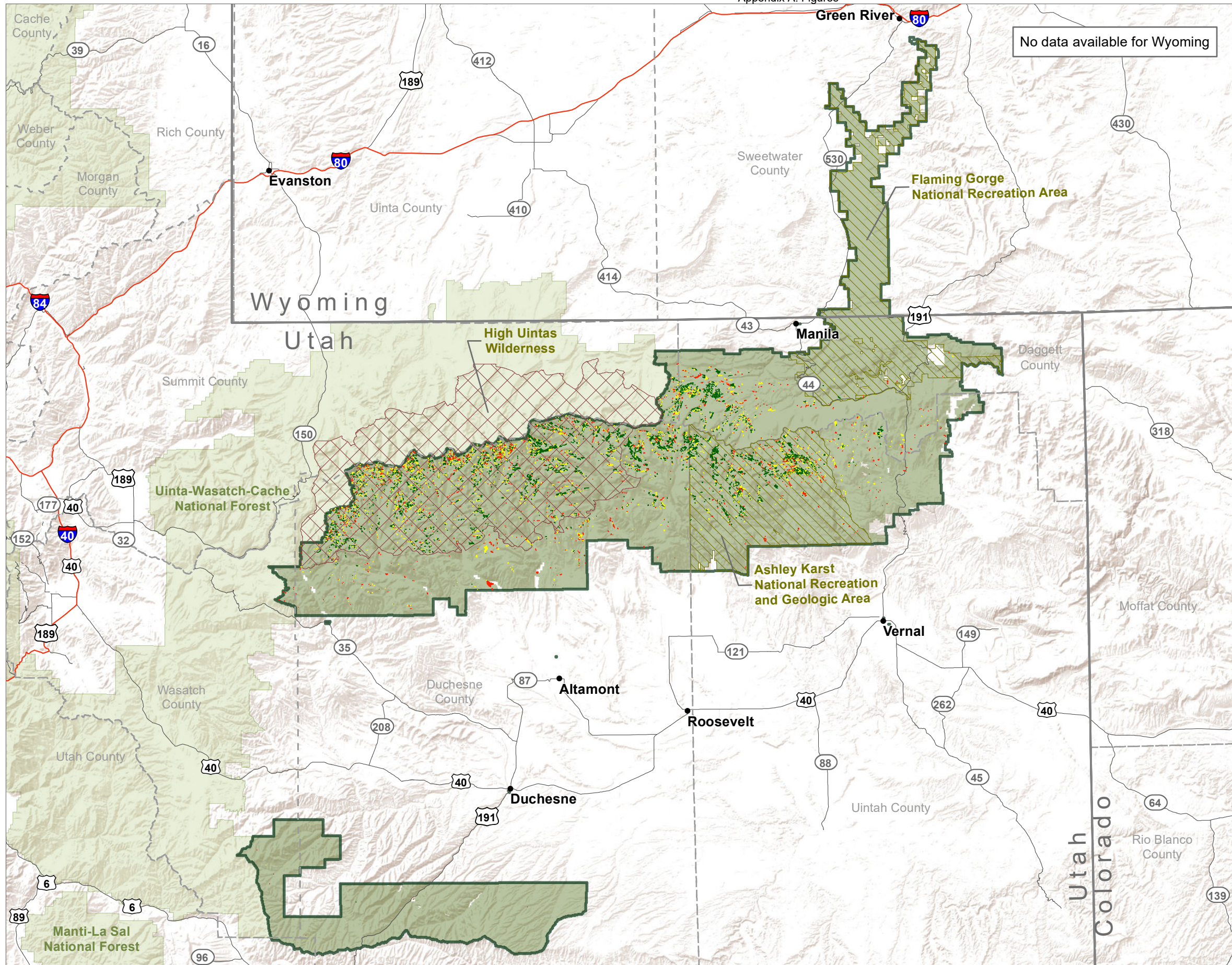
**Figure 3-9
Emergent Wetlands**

-  Emergent wetland
-  National Recreation Area
-  Designated wilderness
-  Ashley National Forest



Source: Forest Service GIS 2020
 November 02, 2022
 Ashley_forestplan_AE_hydro_emergentwetlands.pdf
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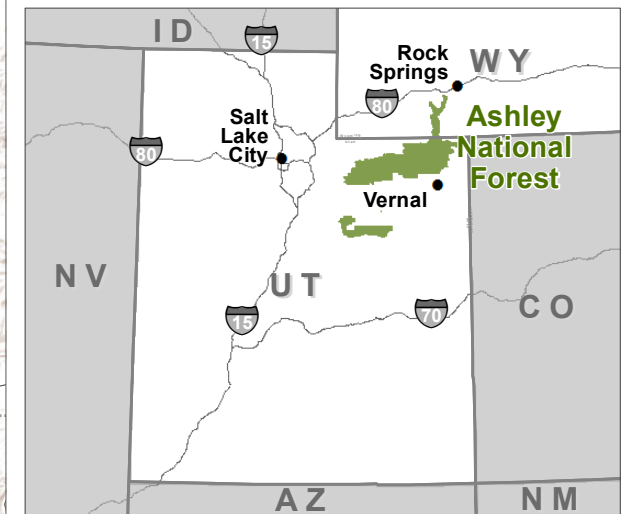




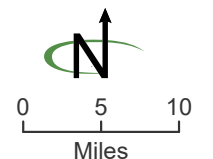
No data available for Wyoming

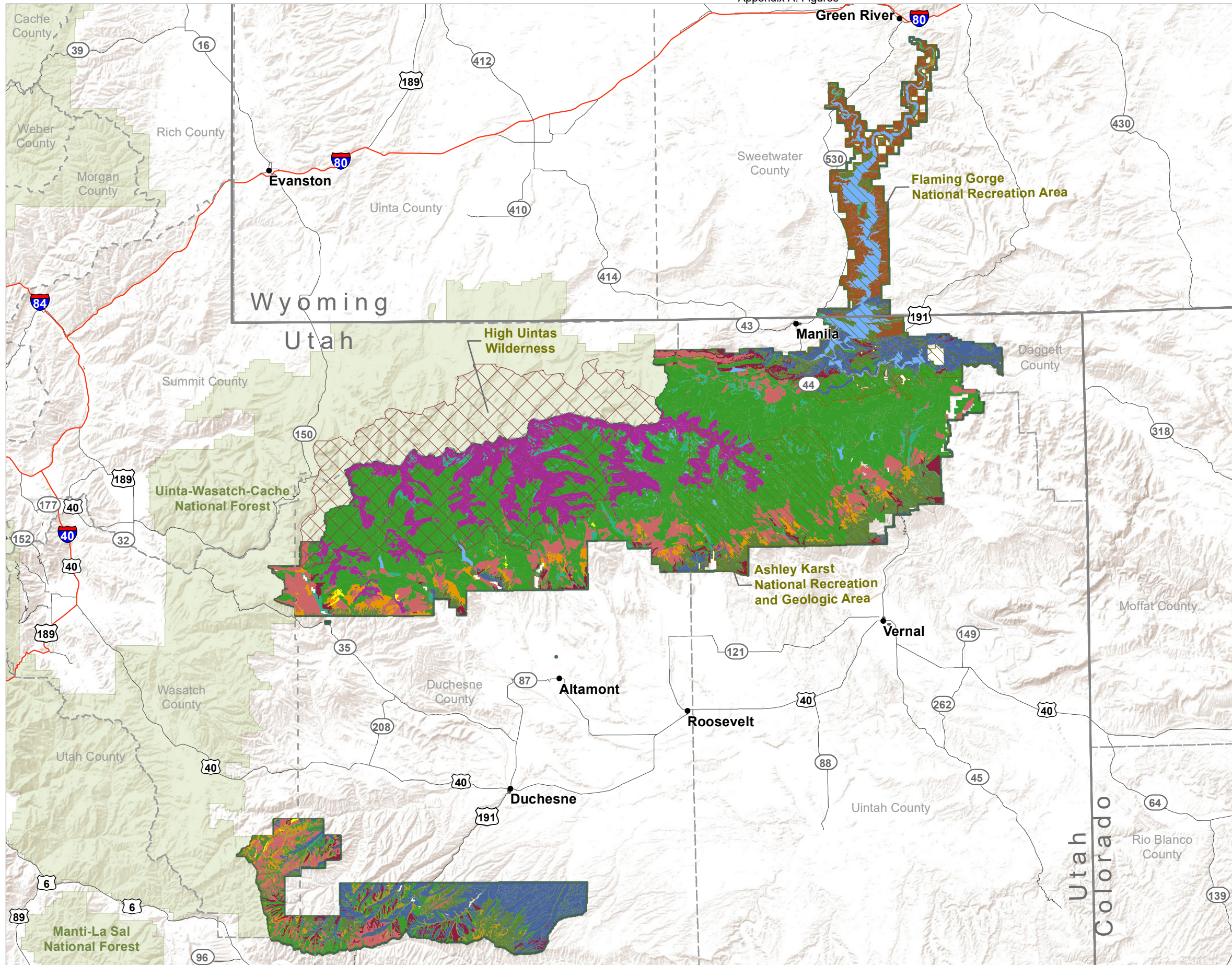
**Figure 3-10
Potential Fens**

- Likely fen
- Possible fen
- Low confidence fen
- National Recreation Area
- Designated wilderness
- Ashley National Forest



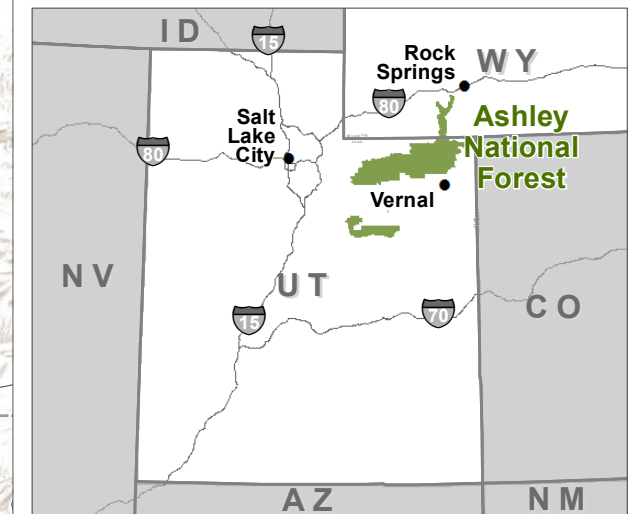
Source: Forest Service GIS 2020
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 Ashley_forestplan_AE_hydro_potentialfens.pdf
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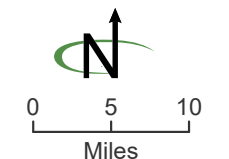


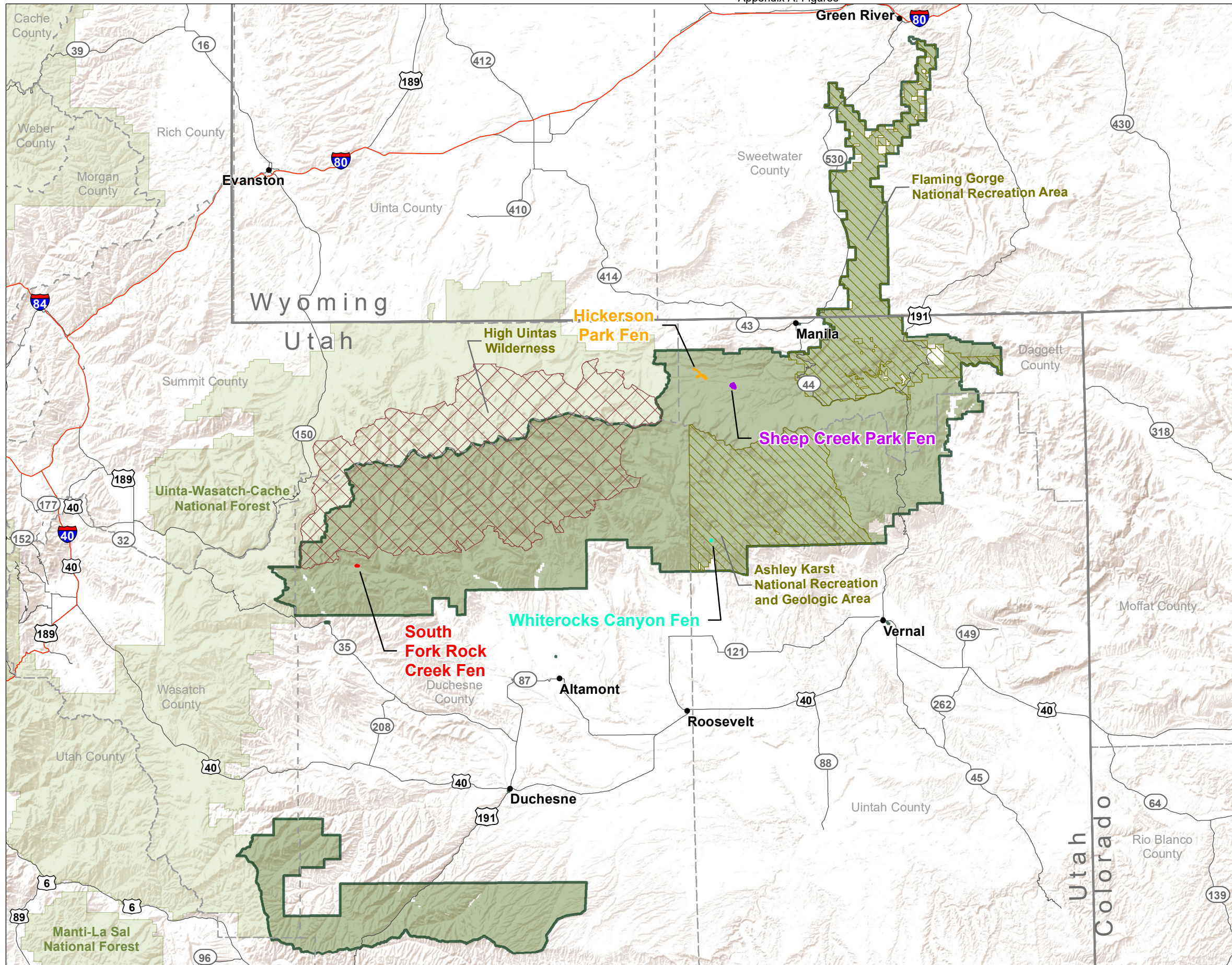
**Figure 3-11
Vegetation Types**

- Alpine
- Coniferous forest
- Deciduous forest
- Desert shrub
- Forb
- Grassland
- Grass/forb
- Mountain brush
- Riparian
- Seral Deciduous forest
- Shrubland
- Water
- Woodland
- National Recreation Area
- Designated wilderness
- Ashley National Forest










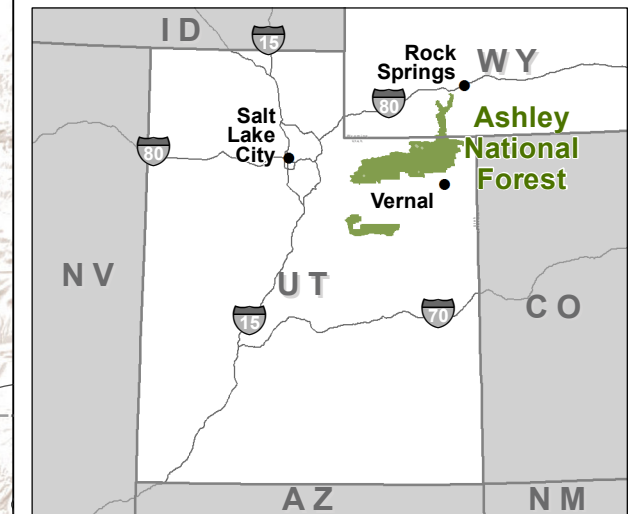
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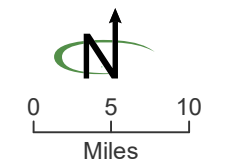


**Figure 3-12
Rare and Unique Habitats**

-  Whiterocks Canyon Fen
-  South Fork Rock Creek Fen
-  Hickerson Park Fen
-  Sheep Creek Park Fen
-  National Recreation Area
-  Designated wilderness
-  Ashley National Forest



Source: Forest Service GIS 2020
 November 03, 2022
 Ashley_forestplan_AE_veg_RareUnique.pdf
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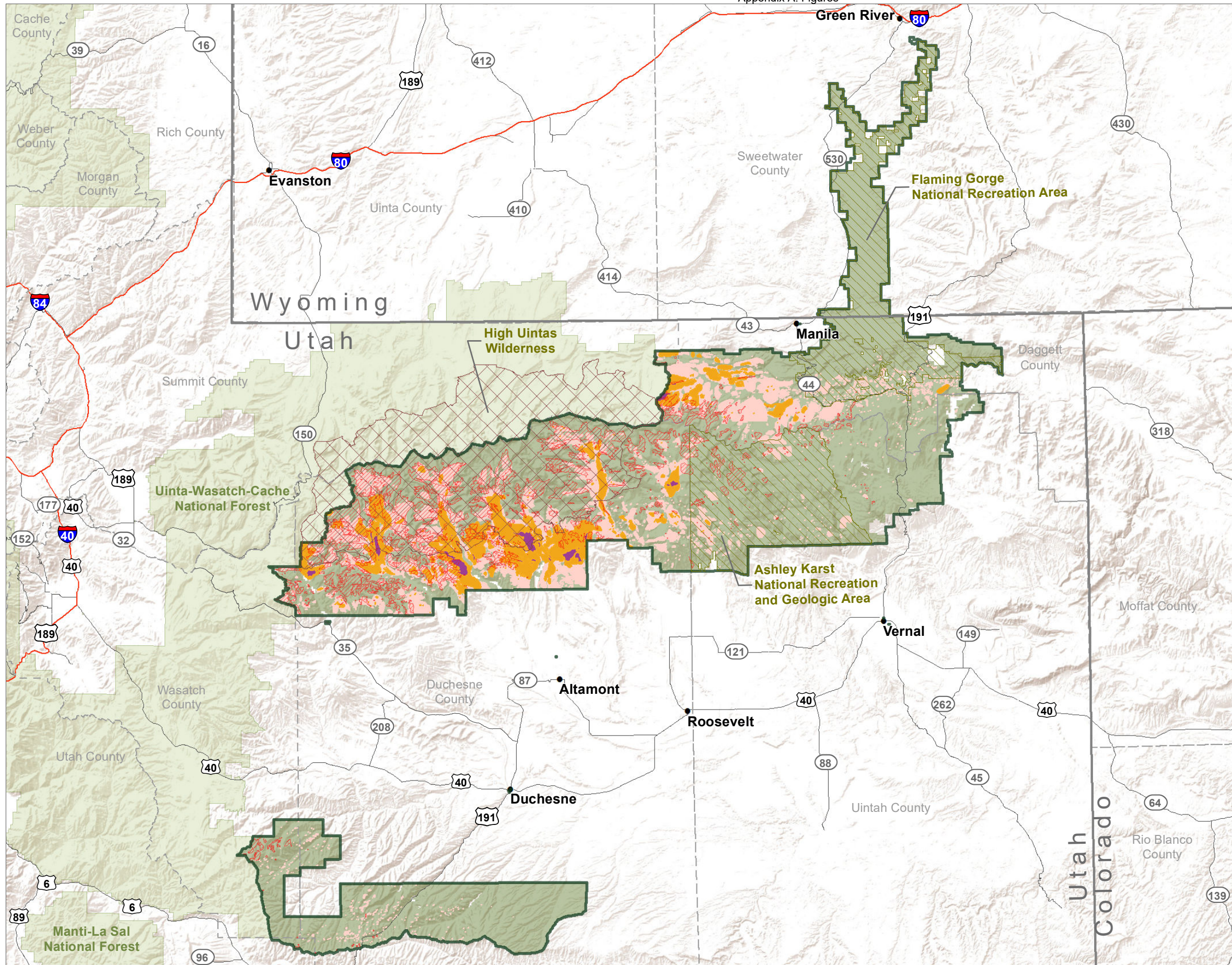
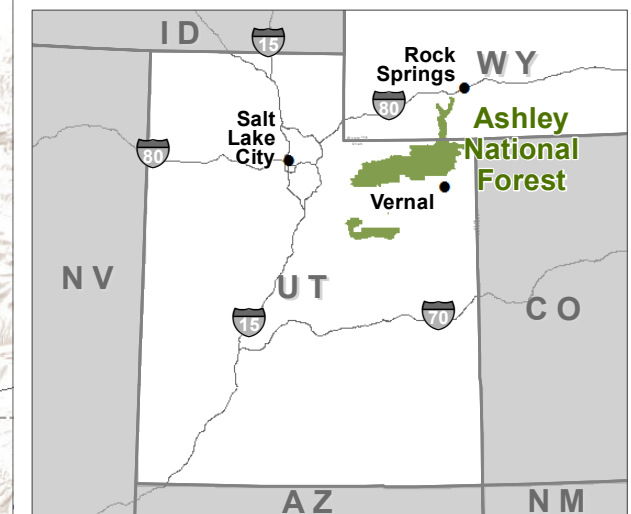
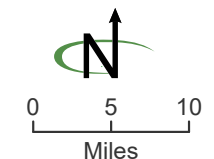


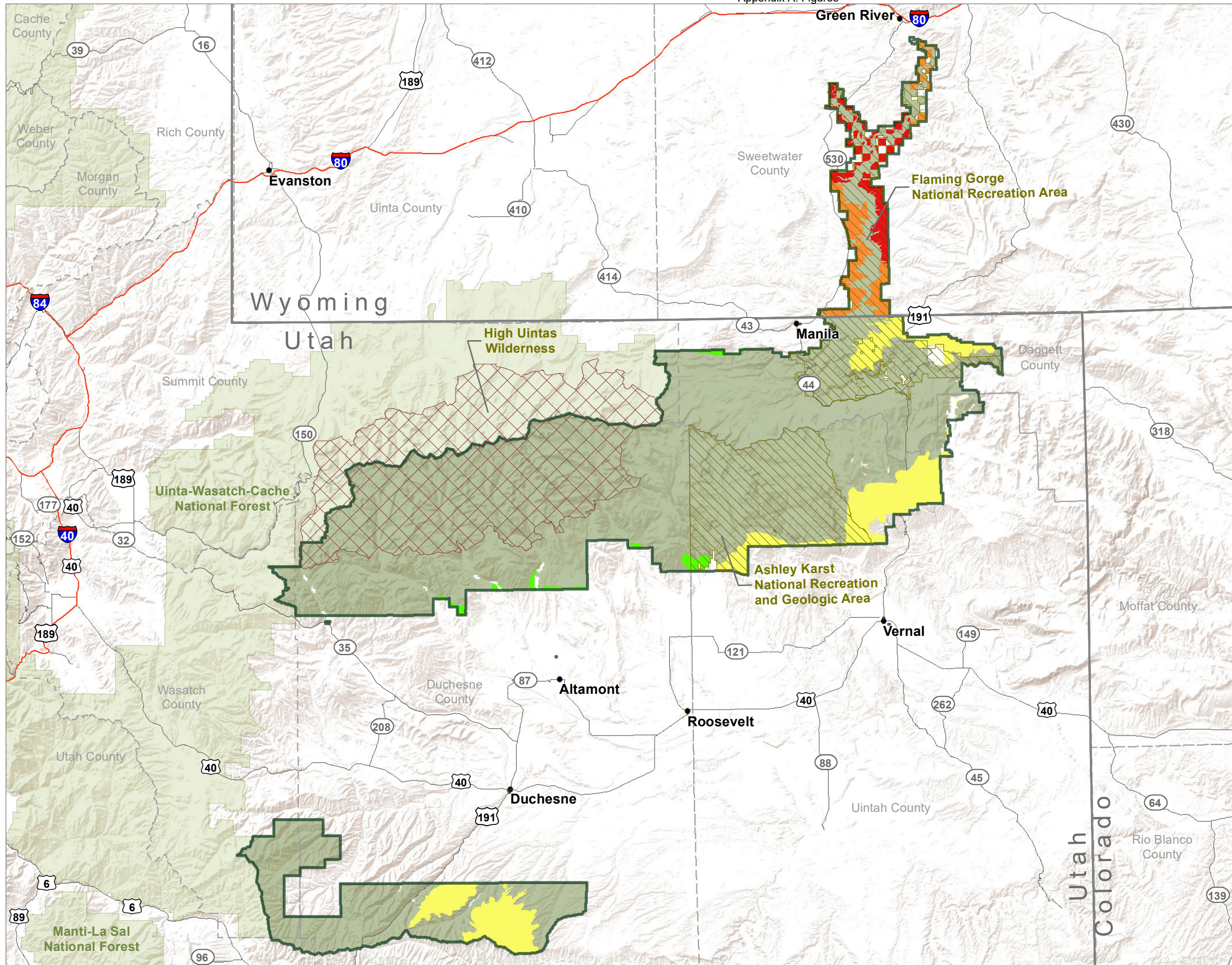
Figure 3-13
Areas Damaged by Insects
 Mountain pine beetle cumulative impact estimation 1990 to 2015

- Intensity**
- High
 - Moderate
 - Low
- Spruce beetle 1990 to 2021**
- Area affected by spruce beetle
 - National Recreation Area
 - Designated wilderness
 - Ashley National Forest



Source: Forest Service GIS 2017-2020
 November 02, 2022
 Ashley_forestplan_AE_fire_insectdamage.pdf
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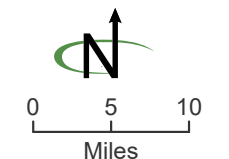


**Figure 3-16
Greater Sage Grouse
Habitat**

- Utah general habitat
- Utah priority habitat
- Wyoming general habitat
- Wyoming priority habitat
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020
November 02, 2022
Ashley_forestplan_AE_species_GRSChab.pdf
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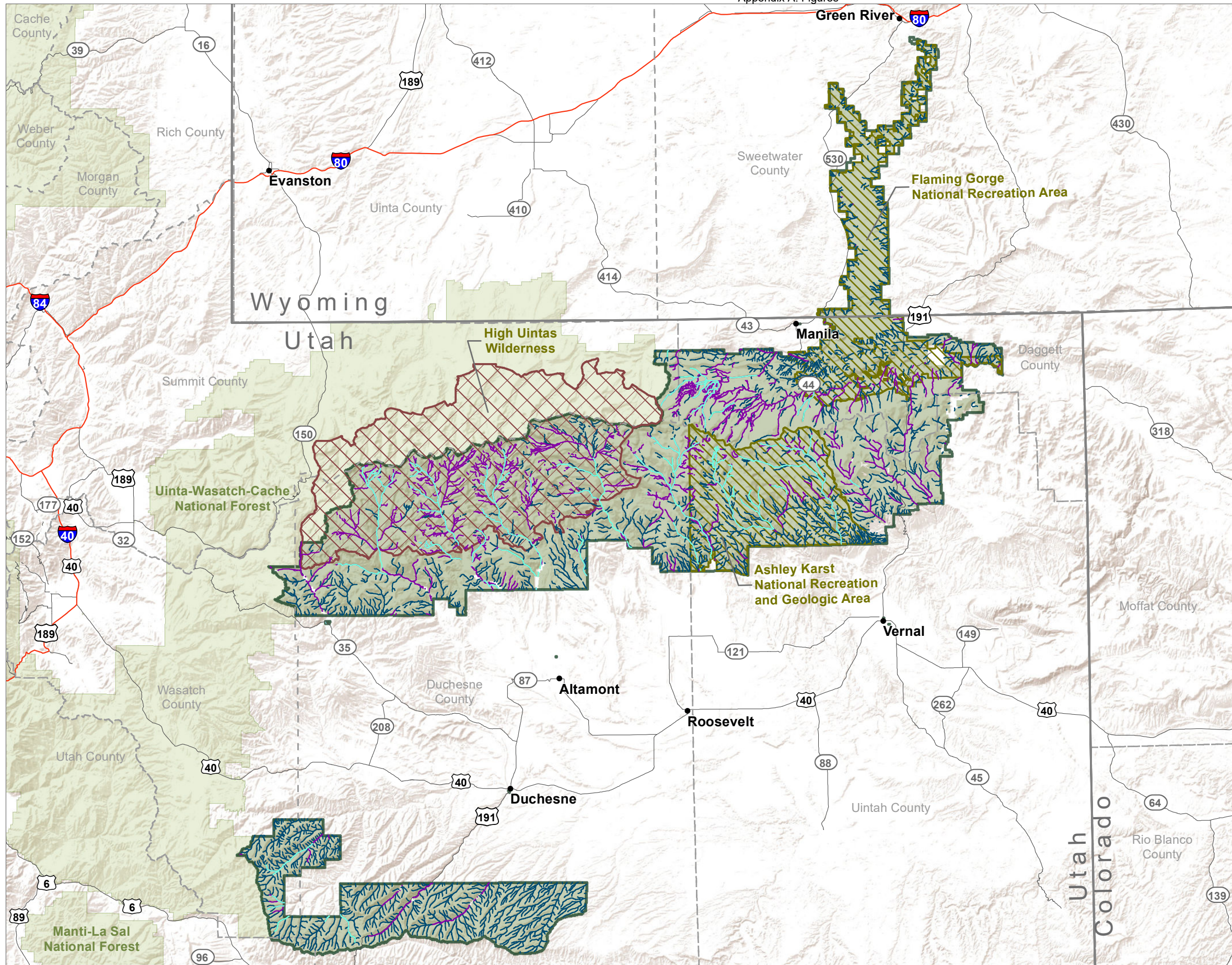
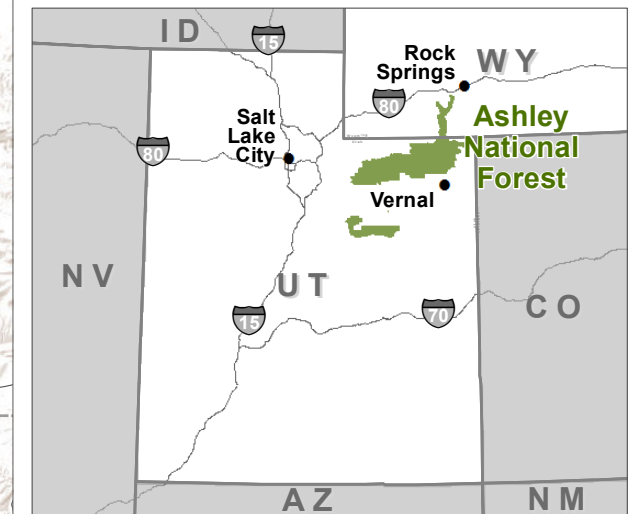
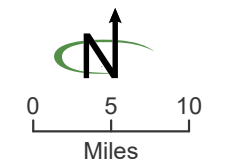


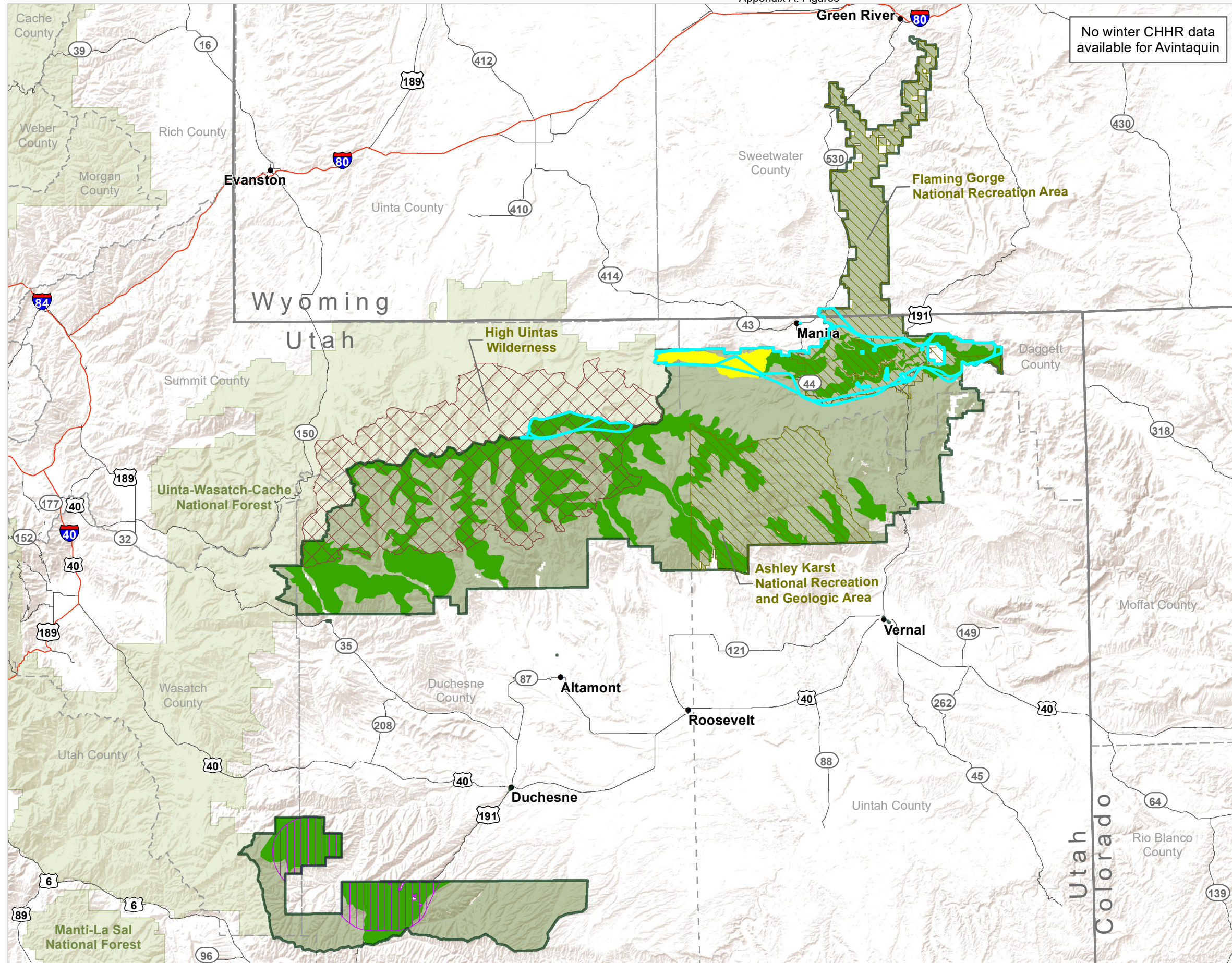
Figure 3-17
Occupied Colorado River
Cutthroat Trout Streams

- Current population
- Intermittent streams
- Perennial streams
- National Recreation Area
- Designated wilderness
- Ashley National Forest



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 November 02, 2022
 Ashley_forestplan_AE_species_CRCT.pdf
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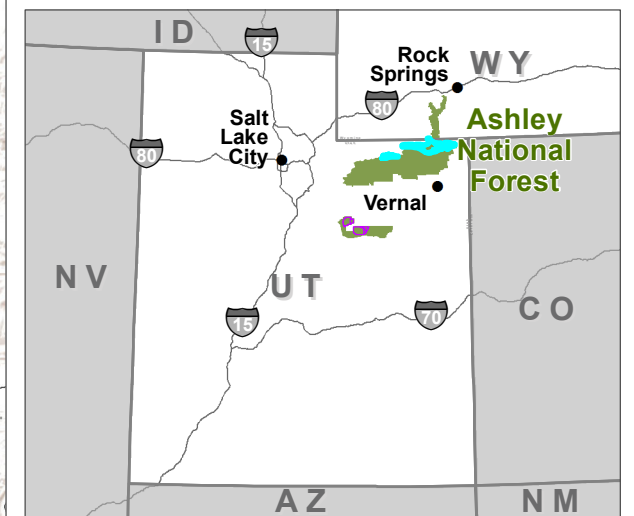
No winter CHHR data available for Avintaquin

**Figure 3-18
Bighorn Sheep Habitat**

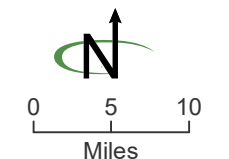
- Spring, fall
- Year-long

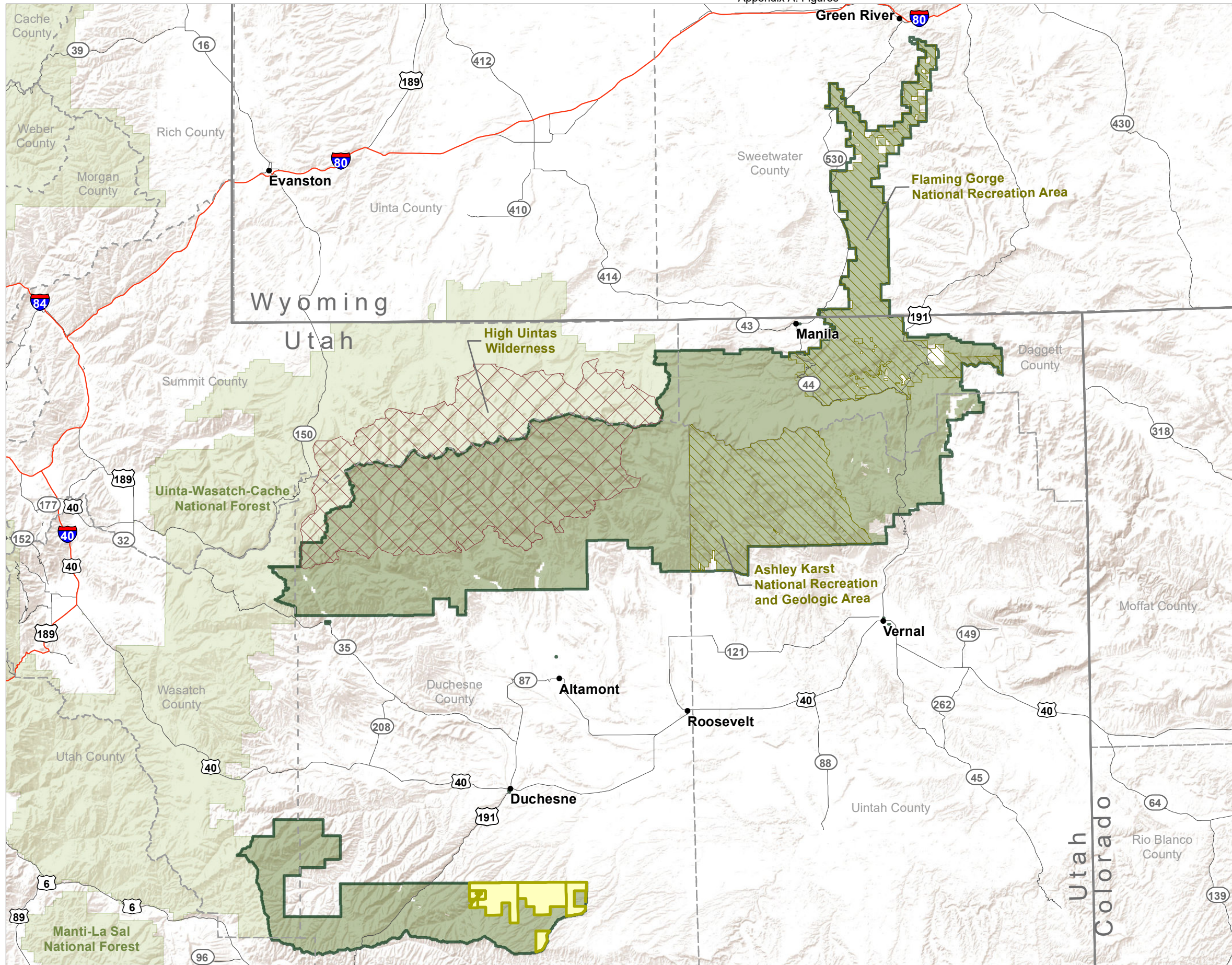
Core Herd Home Ranges (CHHR)

- Avintaquin summer CHHR
- Uintas summer CHHR
- Uintas winter CHHR
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020
 February 28, 2023
 Ashley_forestplan_AE_species_bighornsheep.pdf
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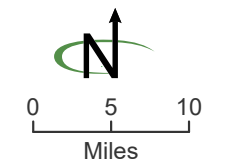


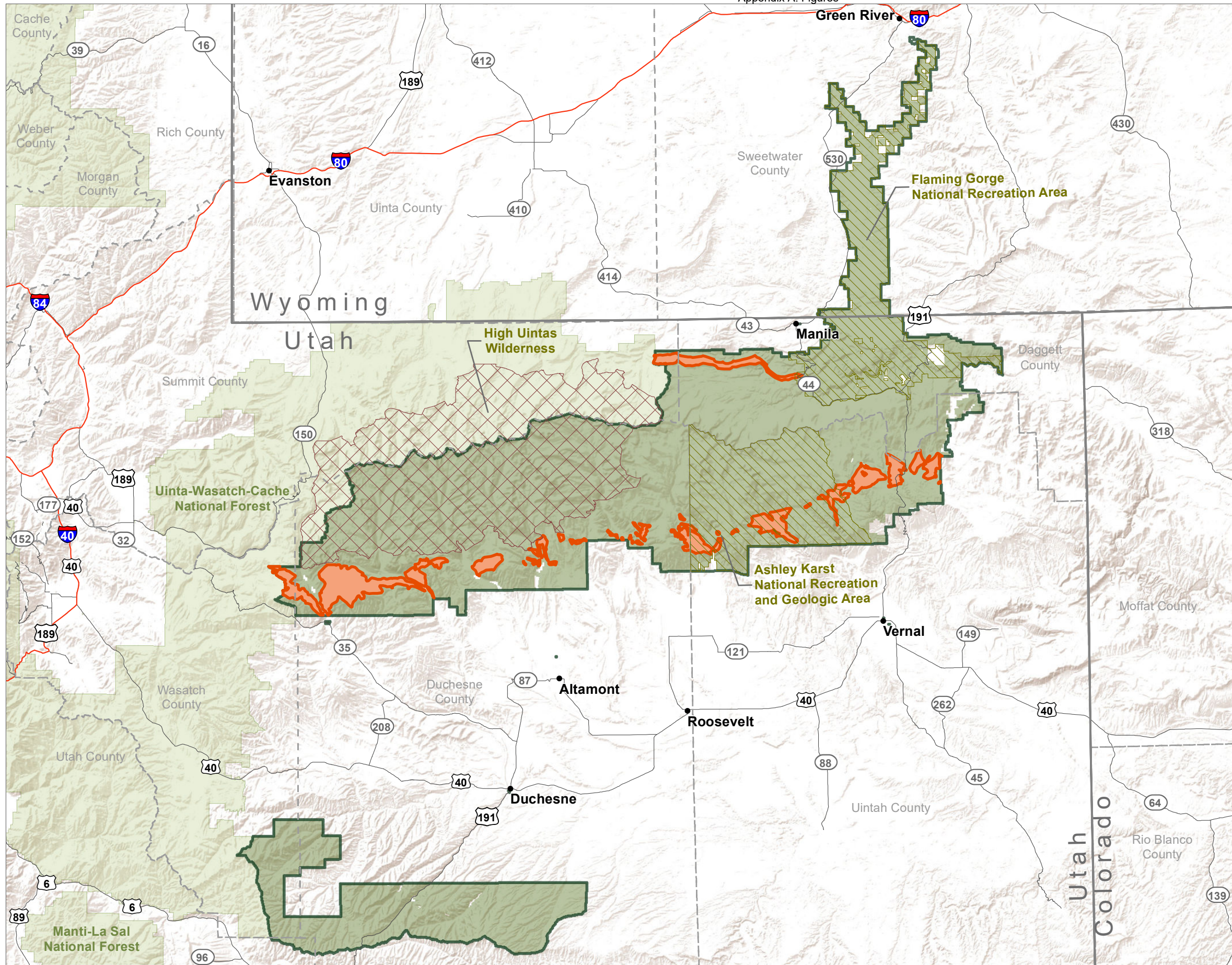
**Figure 3-19
Oil and Gas Leases**

- Oil and gas lease
- National Recreation Area
- Designated wilderness
- Ashley National Forest



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 Ashley_forestplan_AE_minerals_OGLEases.pdf
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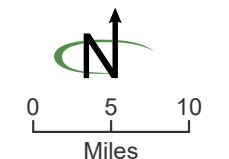


**Figure 3-20
Karst Areas**

- Karst areas
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020
 November 02, 2022
 Ashley_forestplan_AE_minerals_karst.pdf
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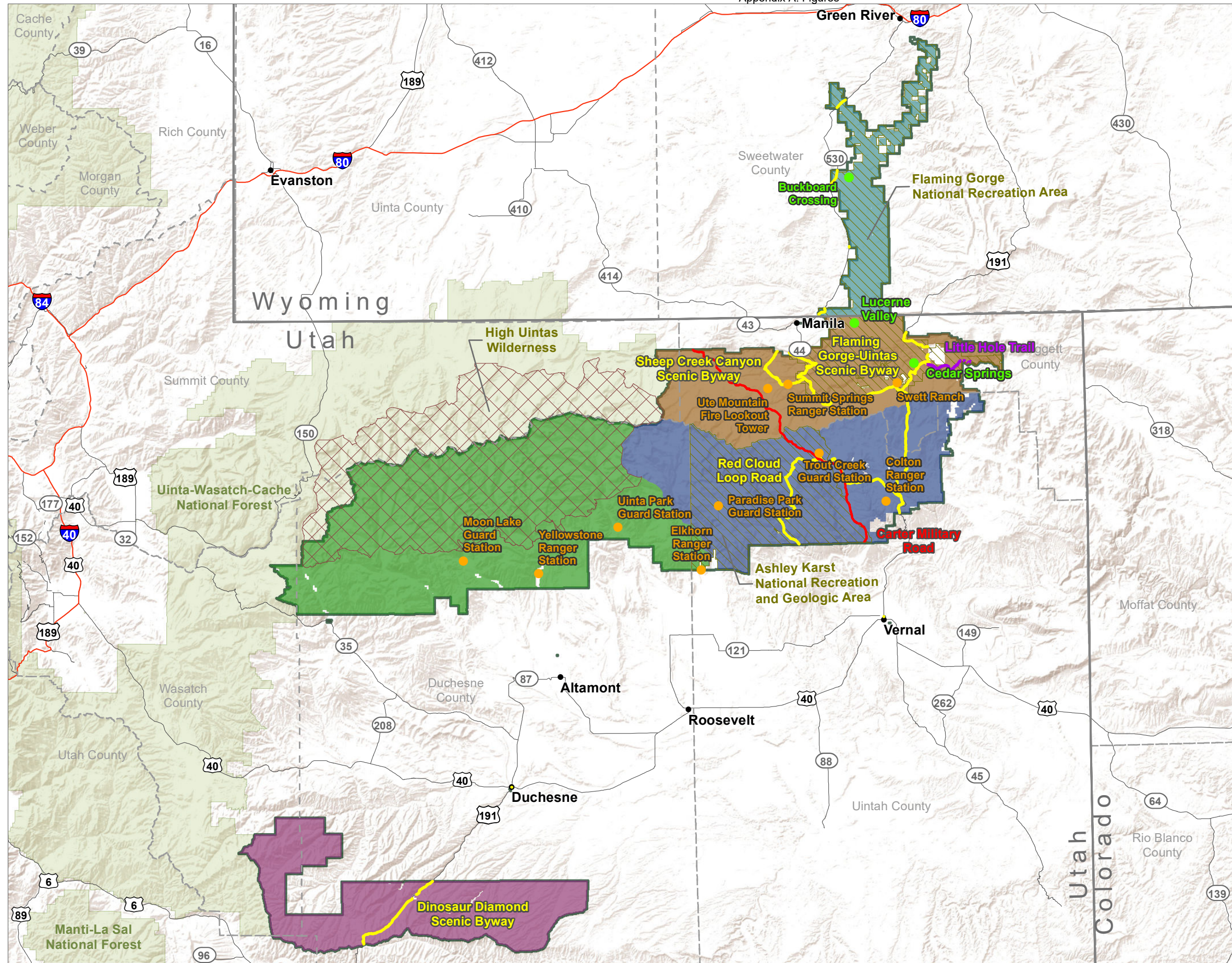
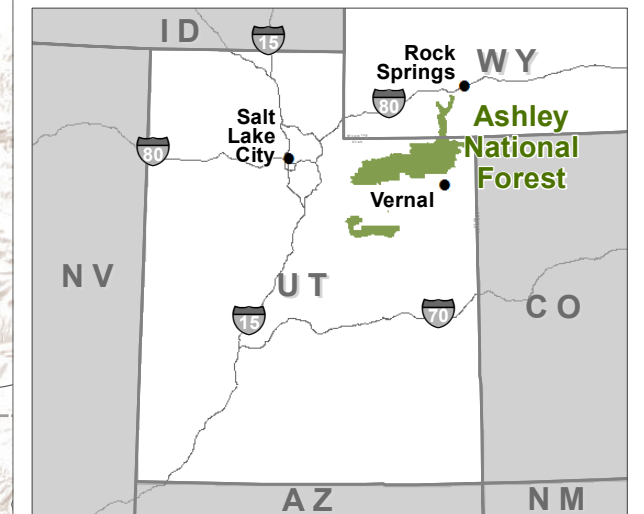
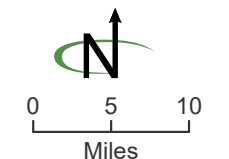


Figure 3-21
Scenic Byways, Historic Areas, National Recreation Trails, and Scenic Subareas

- Scenic byway or scenic backway
- Key water access points
- Historic management areas
- Carter Military Road
- Little Hole National Recreation Trail
- North Duchesne/Roosevelt Ranger District
- South Duchesne/Roosevelt Ranger District
- North Flaming Gorge Ranger District
- South Flaming Gorge Ranger District
- Vernal Ranger District
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020
 November 02, 2022
 Ashley_forestplan_AE_rec_byways.pdf
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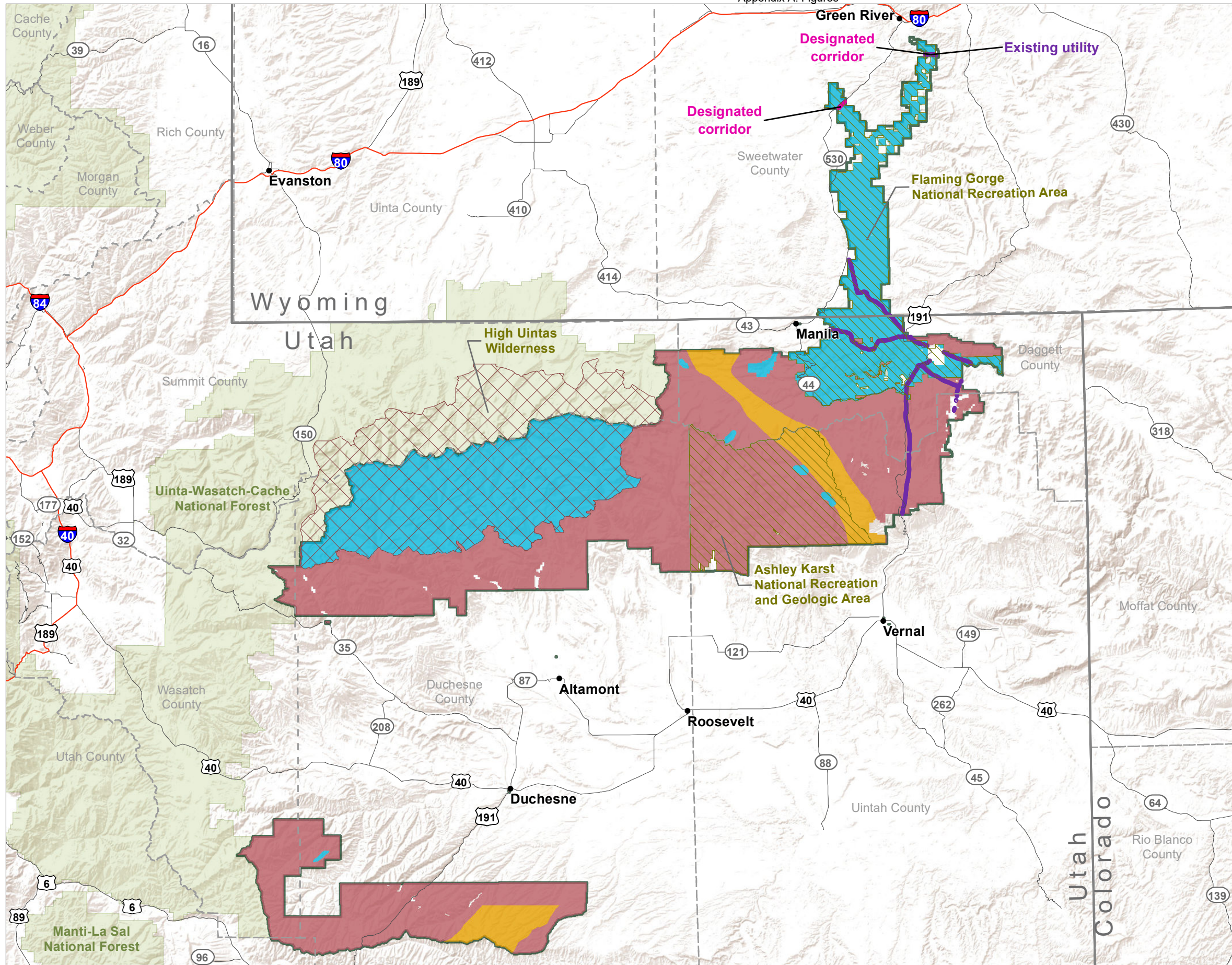
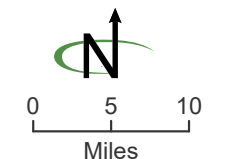


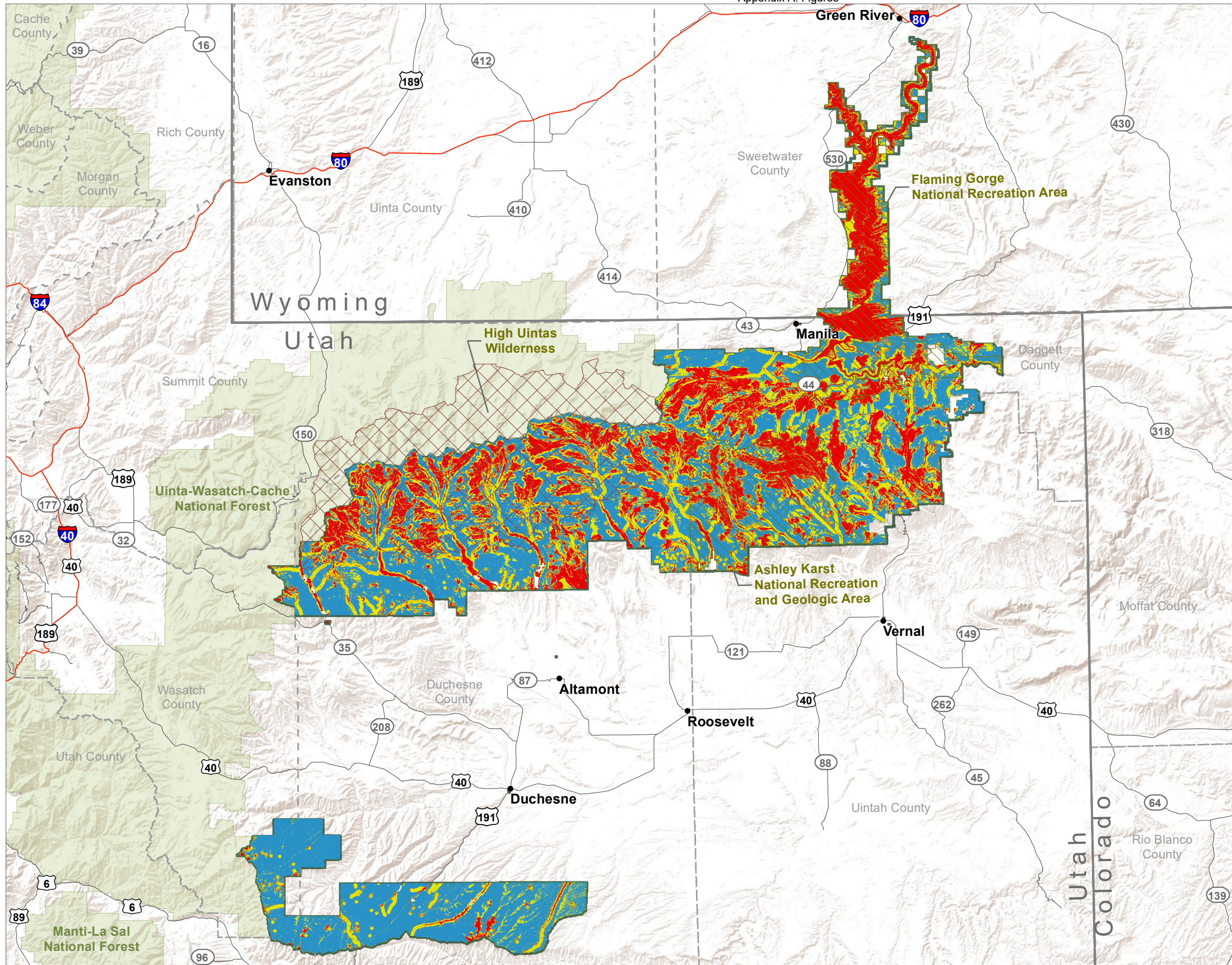
Figure 3-22
Areas Open and Closed to Energy
Corridor Rights of Way (ROWs) - as
shown in the 1986 Forest Plan

- Avoidance area
- Designated corridor
- Exclusion area
- Existing utility
- Window
- National Recreation Area
- Designated wilderness
- Ashley National Forest



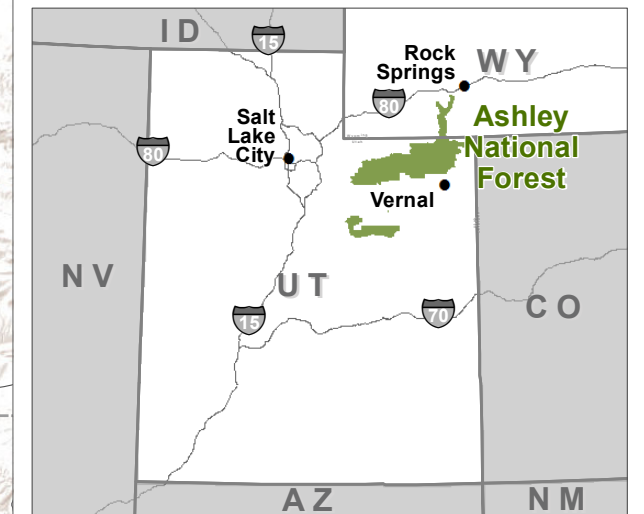
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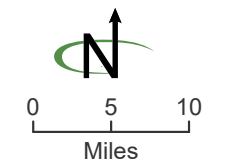


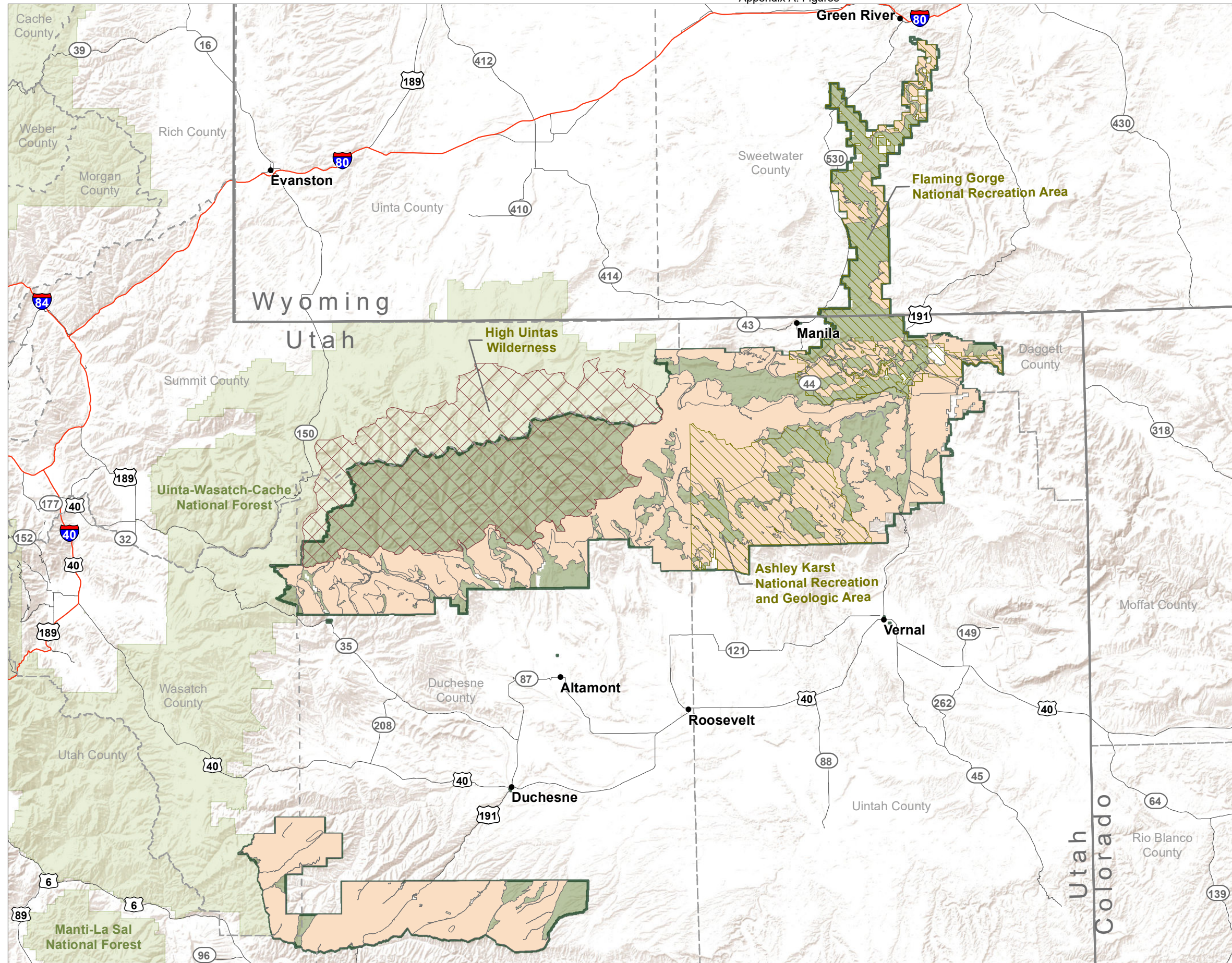
**Figure 3-23
Cultural Resource Sensitivity**

- Low
- Moderate
- High
- National Recreation Area
- Designated wilderness
- Ashley National Forest







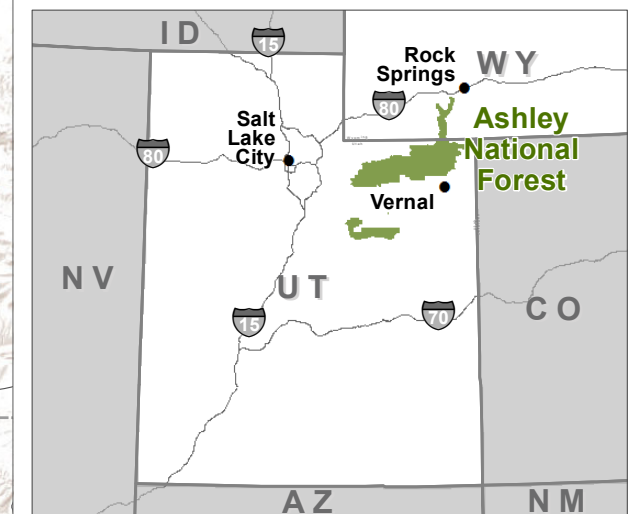
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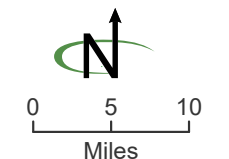


**Figure 3-25
Inventoried Roadless Areas**

-  Inventoried roadless area
-  National Recreation Area
-  Designated wilderness
-  Ashley National Forest



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