



Forest Service  
U.S. DEPARTMENT OF AGRICULTURE

Intermountain Region/Ashley National Forest

January 2024

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

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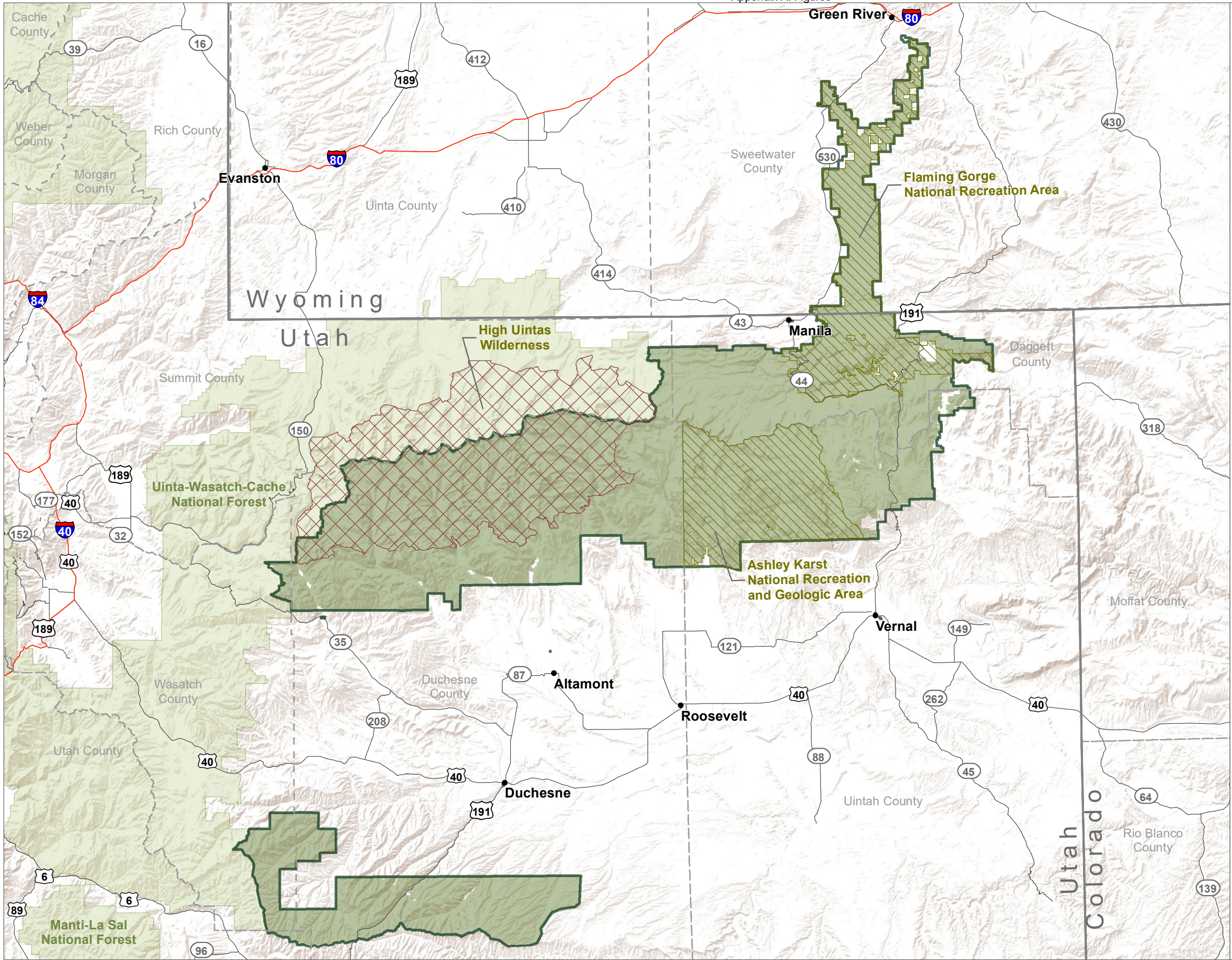
\*Figures 3-1, 3-2, 3-14 and 3-15 are included in Chapter 3.

## **Notable Changes Between Draft and Final**

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

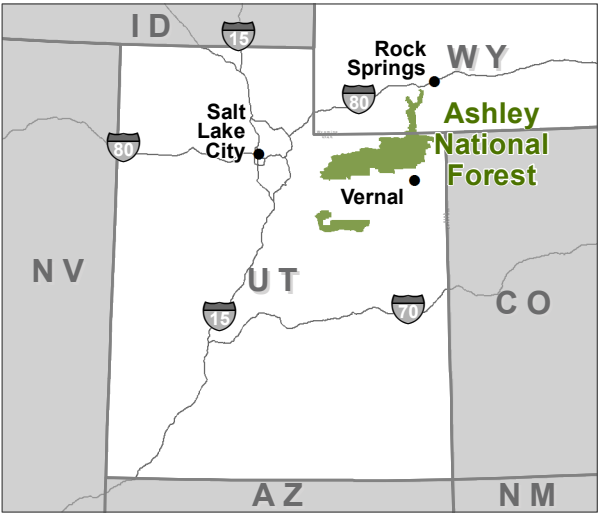
- Map labels were updated from “alternative B” to “alternative B modified.”
- Two new figures were added to chapter 3 of the final EIS: Figure 3-1, 8-Hour Ozone Concentrations in the Uintah Basin (2010-March 2021); and Figure 3-2. Time Series of Daily Maximum Ozone Concentrations in the Uintah Basin (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.



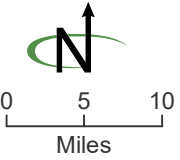


**Figure 1-1  
Planning Area**

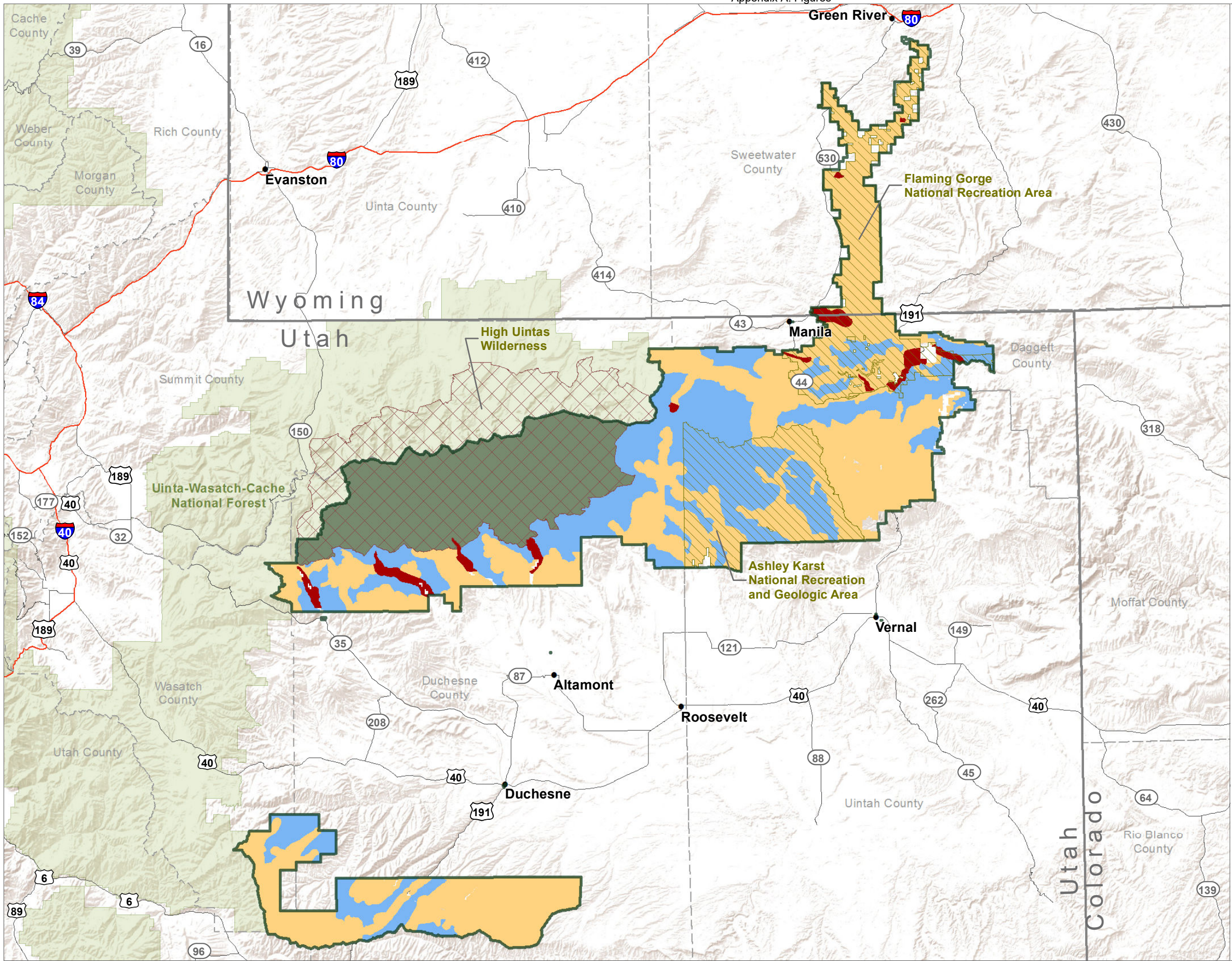
- National Recreation Area
- Designated wilderness
- Ashley National Forest



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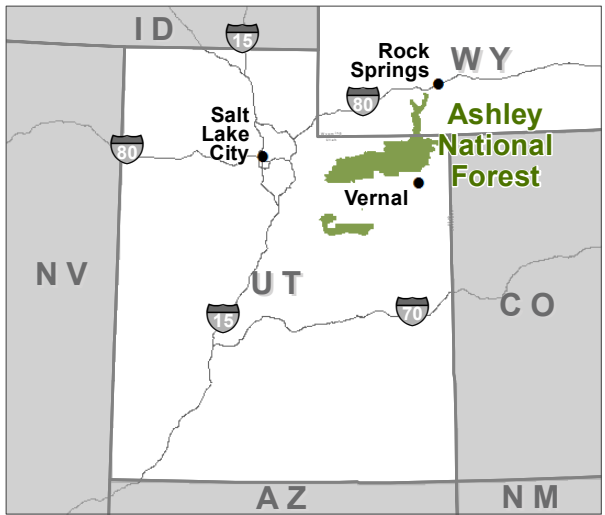




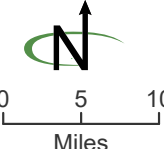


**Figure 2-1**  
**Alternative B Modified:**  
**Recreation Management Areas**

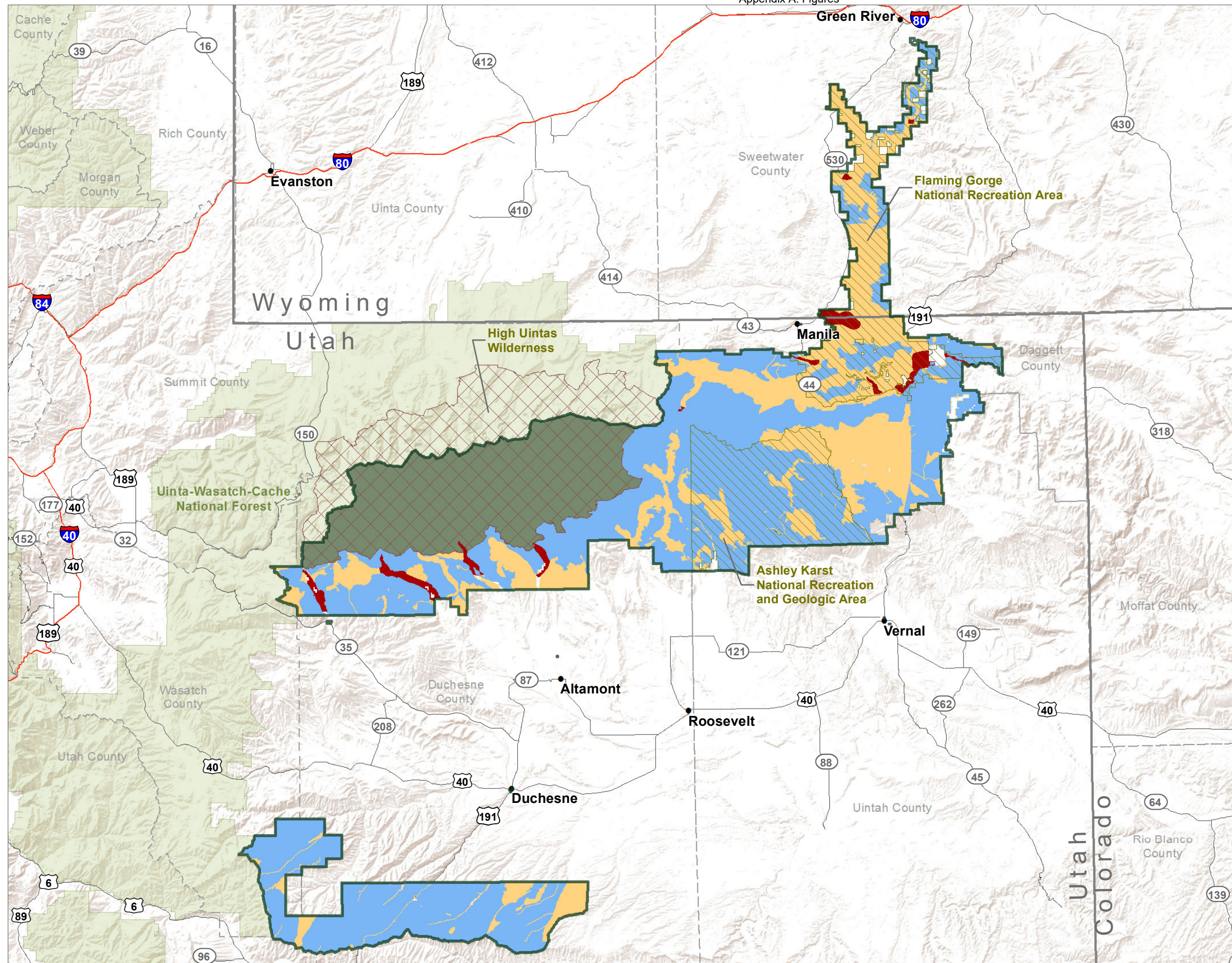
- Backcountry Recreation MA
- Destination Recreation MA
- General Recreation MA
- High Uintas Wilderness
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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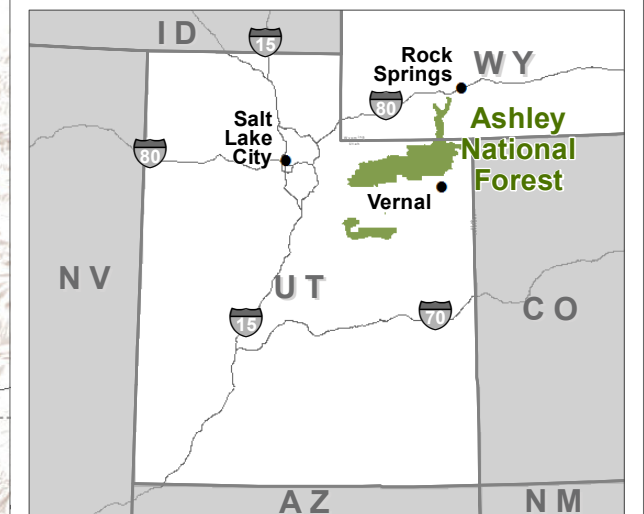




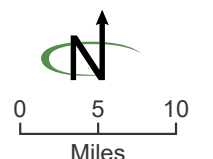


**Figure 2-2  
Alternative C:  
Recreation Management Areas**

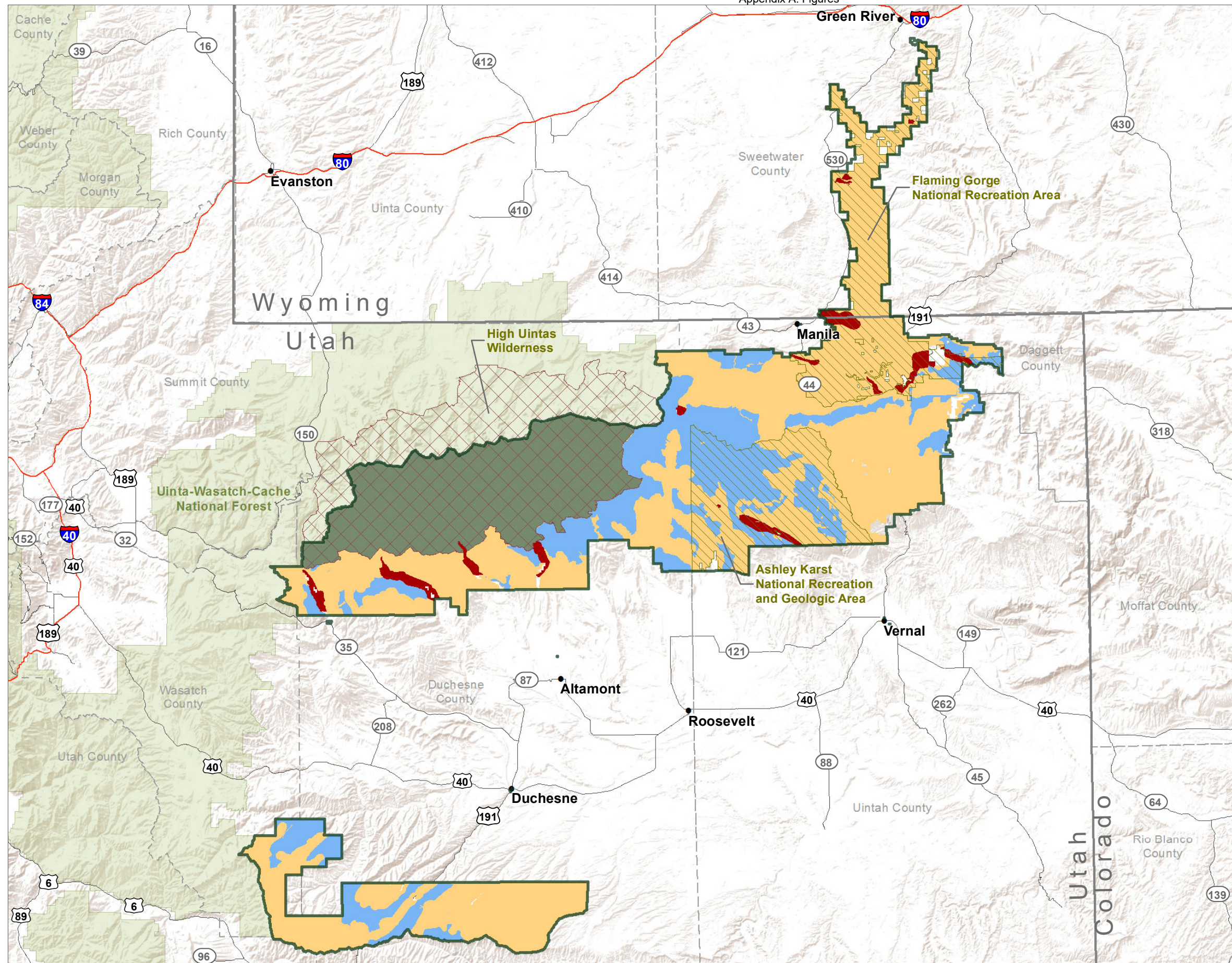
- Backcountry Recreation MA
- Destination Recreation MA
- General Recreation MA
- High Uintas Wilderness
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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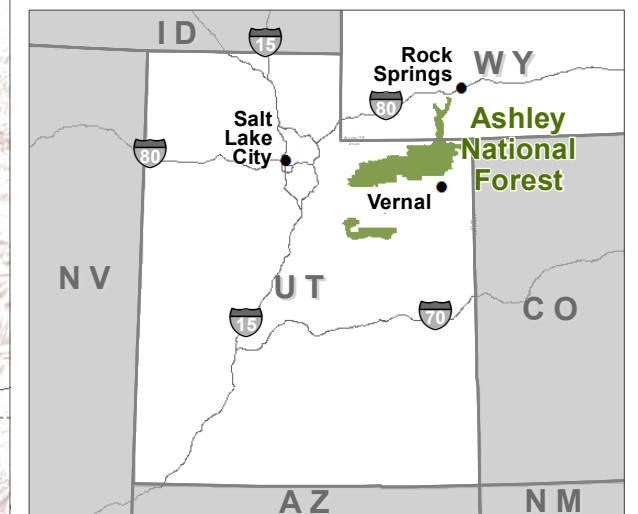




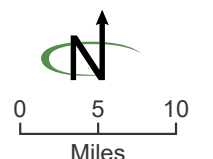


**Figure 2-3  
Alternative D:  
Recreation Management Areas**

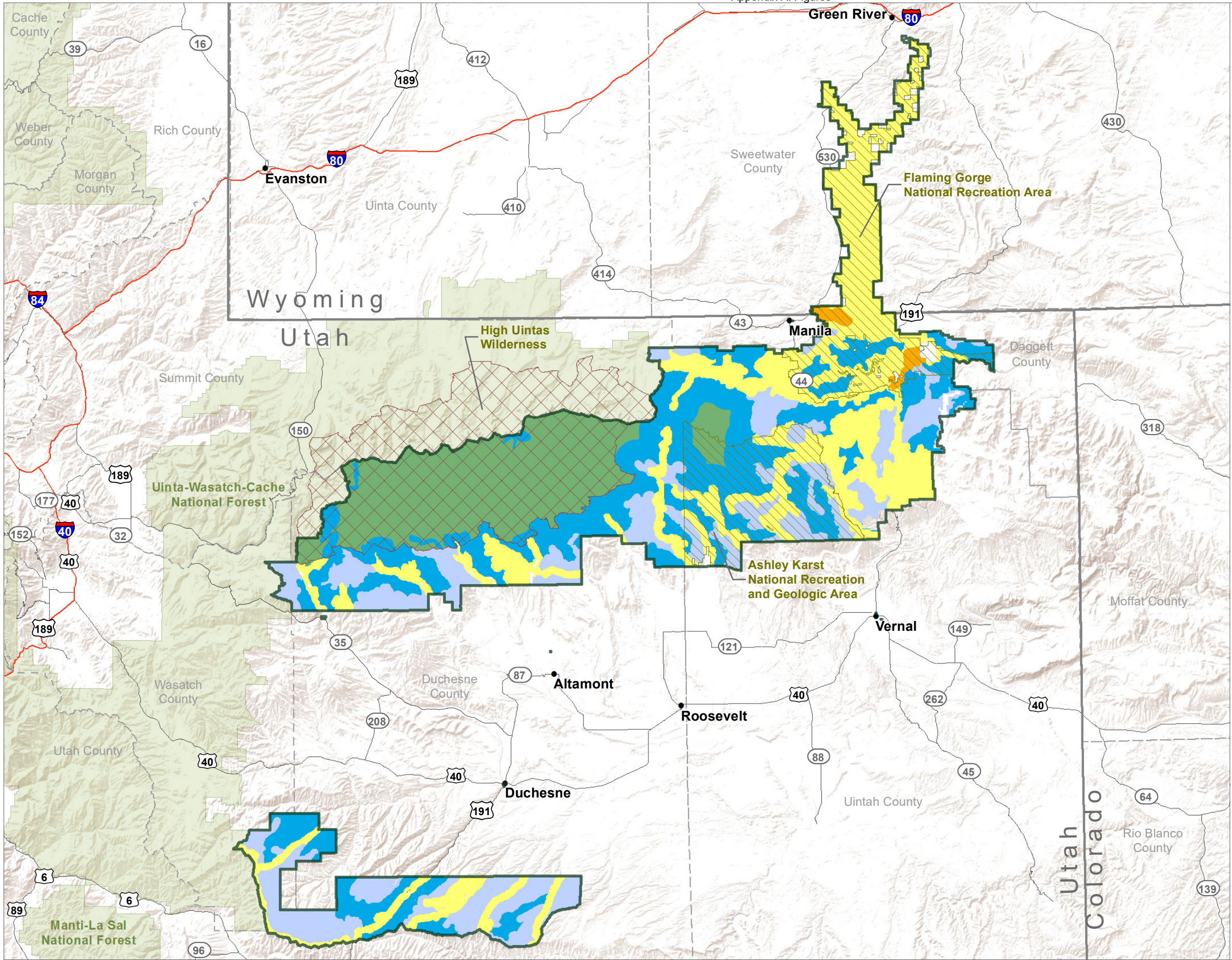
- Backcountry Recreation MA
- Destination Recreation MA
- General Recreation MA
- High Uintas Wilderness
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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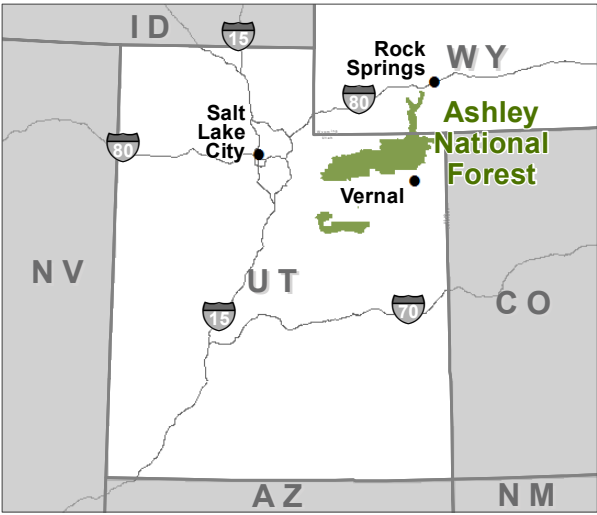




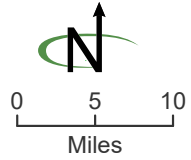


**Figure 2-4**  
**Alternative A: Recreation Opportunity Spectrum**

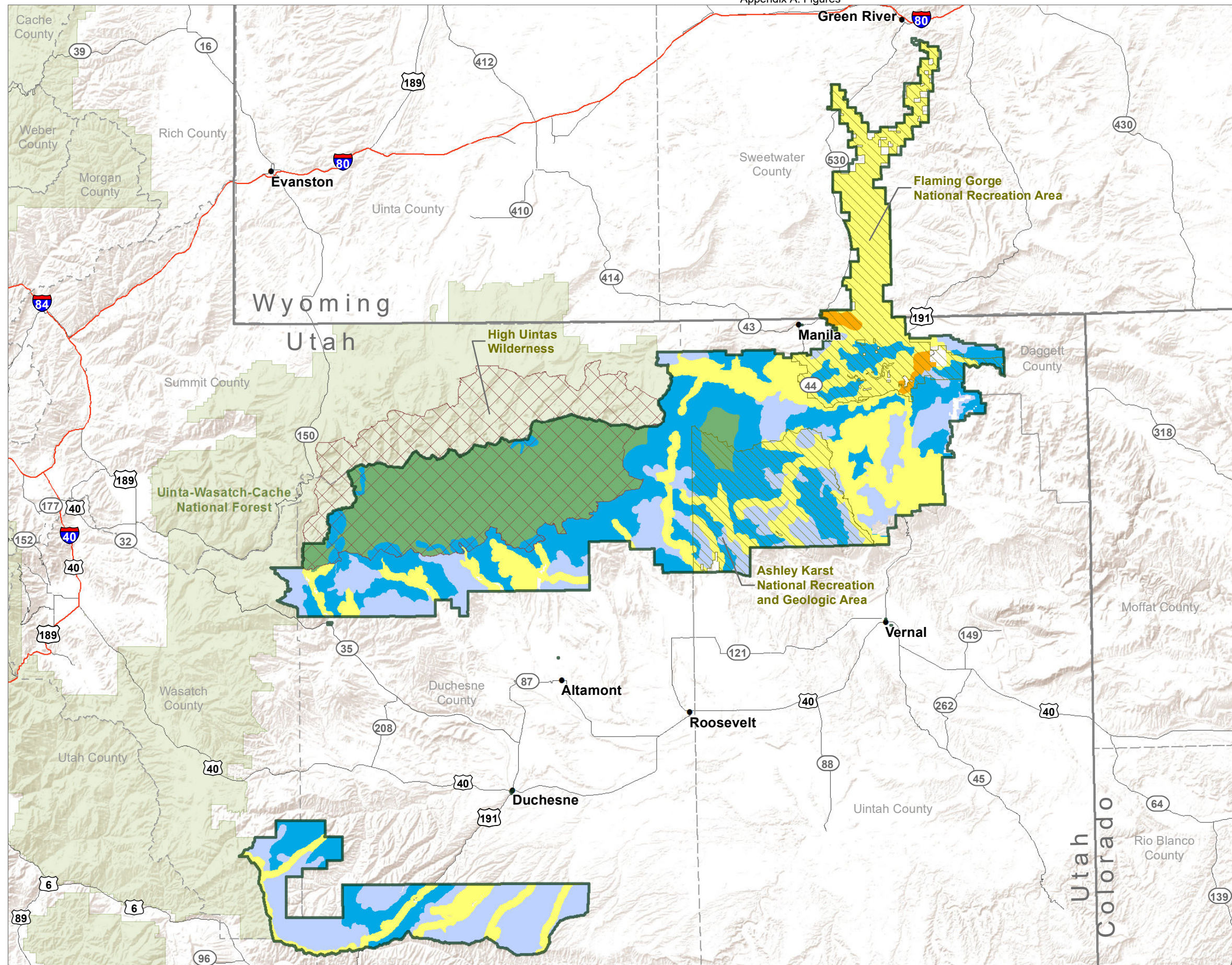
- Primitive
- Roaded natural
- Rural
- Semi-primitive motorized
- Semi-primitive non-motorized
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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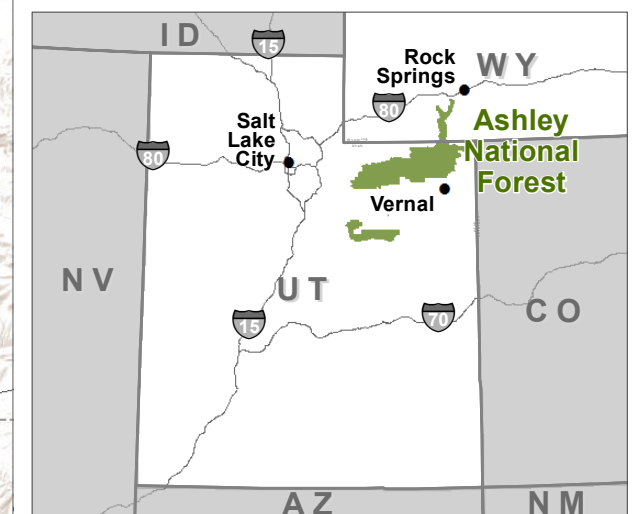




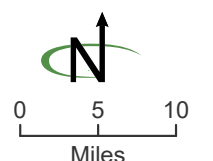


**Figure 2-5**  
**Alternative B Modified: Recreation**  
**Opportunity Spectrum**

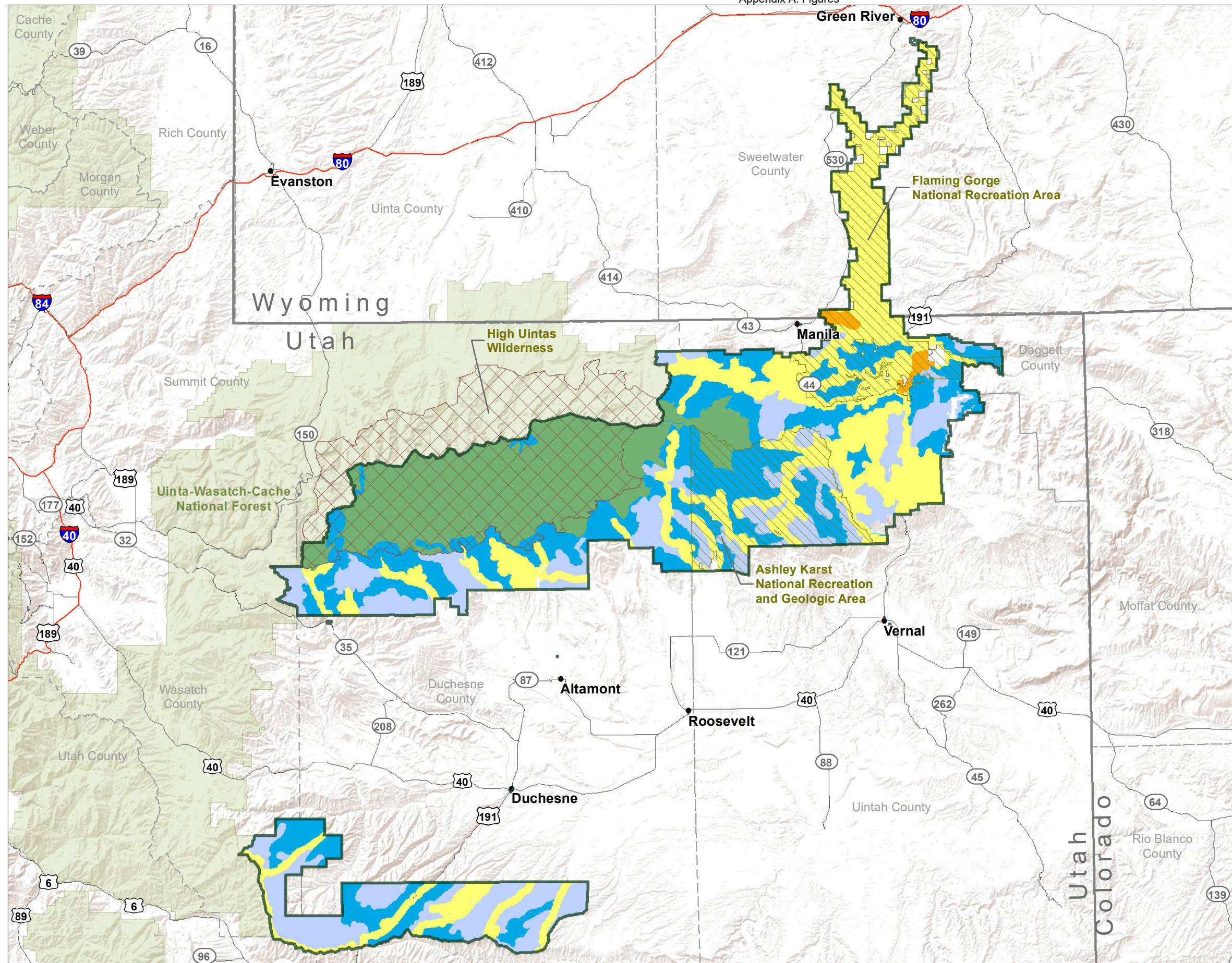
- Primitive
- Roaded natural
- Rural
- Semi-primitive motorized
- Semi-primitive non-motorized
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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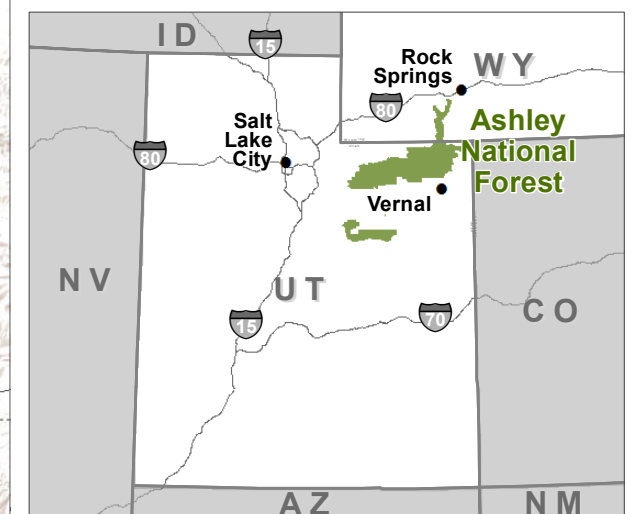




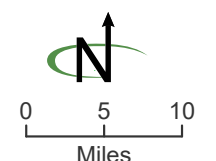


**Figure 2-6**  
**Alternative C: Recreation Opportunity Spectrum**

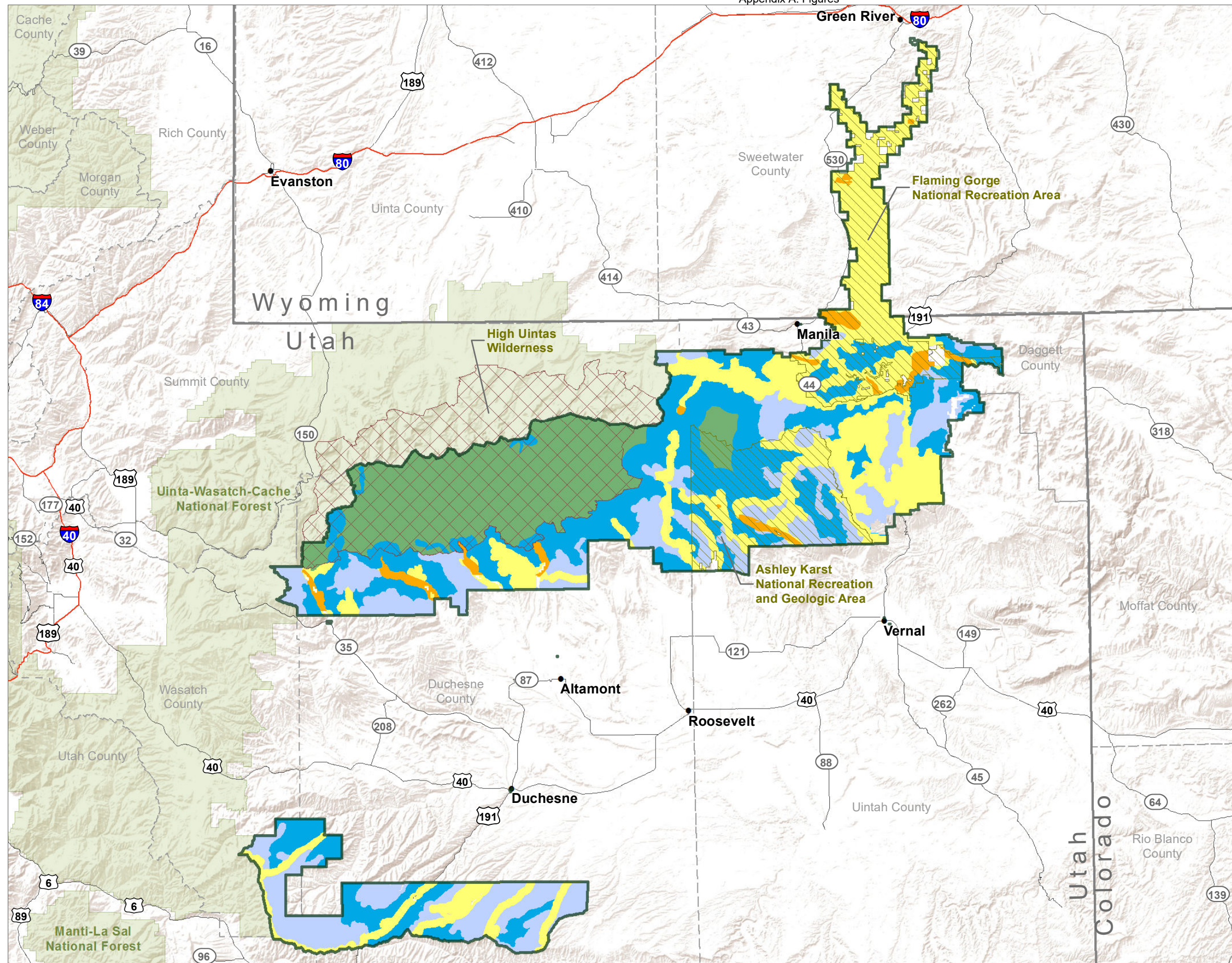
- Primitive
- Roaded natural
- Rural
- Semi-primitive motorized
- Semi-primitive non-motorized
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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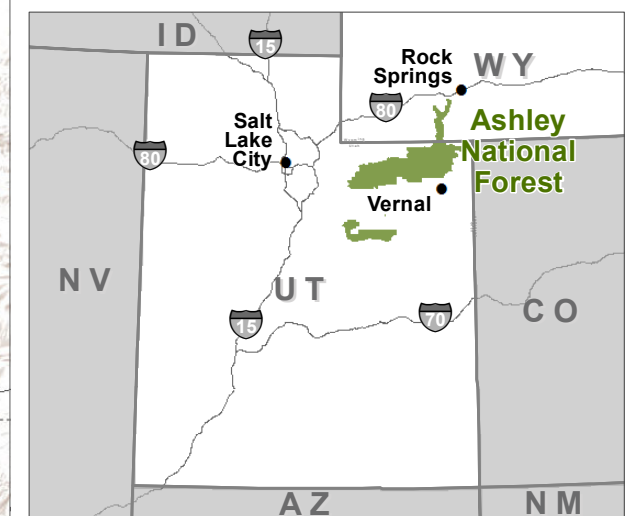




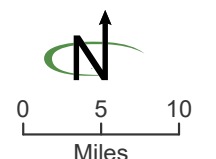


**Figure 2-7**  
**Alternative D: Recreation Opportunity Spectrum**

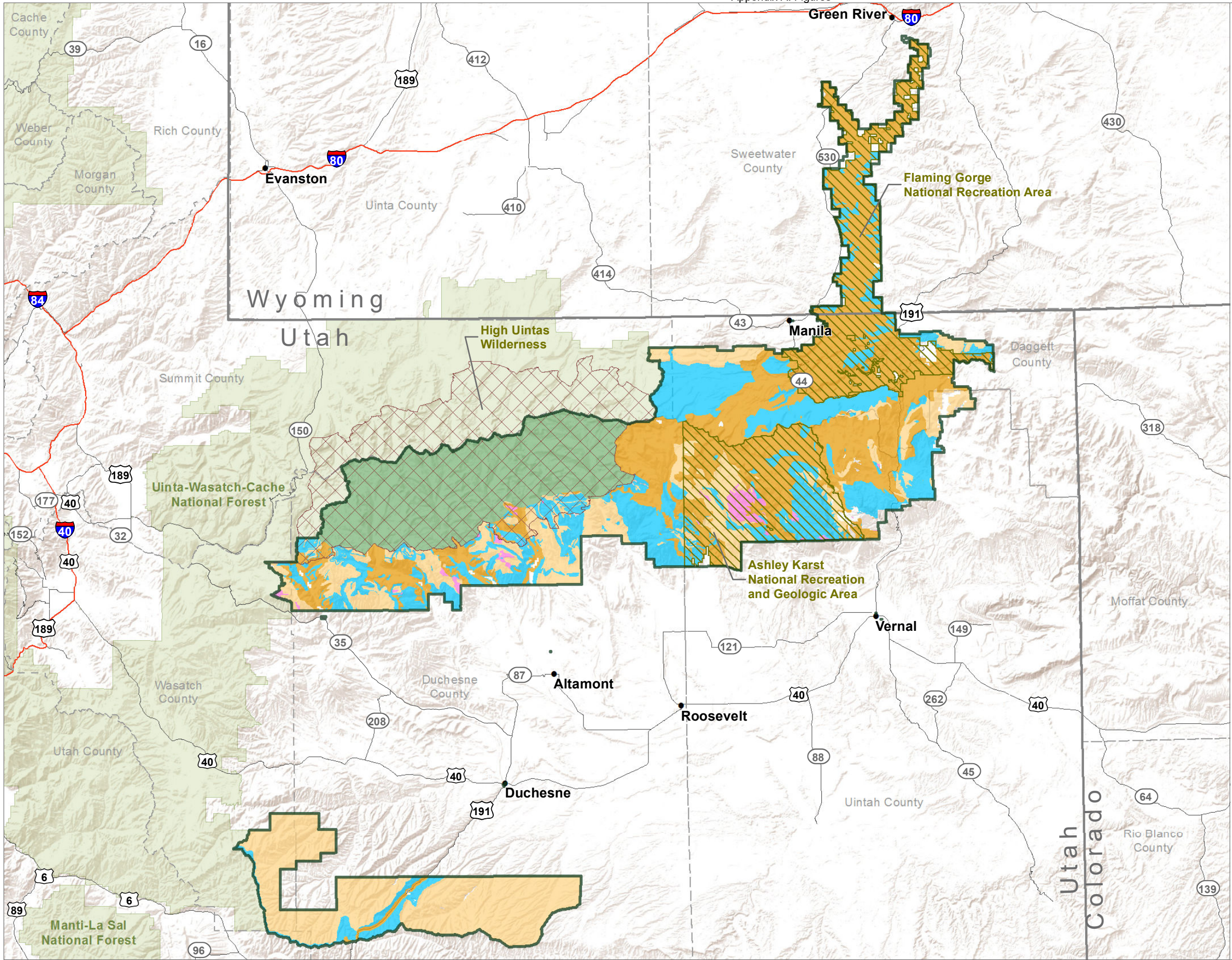
- Primitive
- Roaded natural
- Rural
- Semi-primitive motorized
- Semi-primitive non-motorized
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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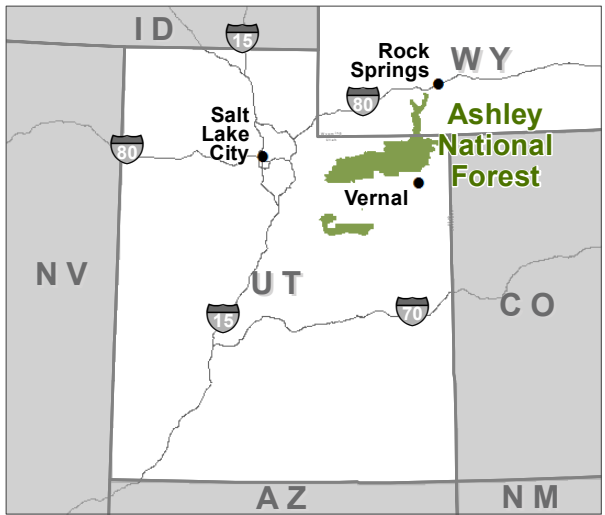




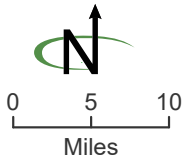


**Figure 2-8  
Alternative A:  
Visual Quality Objective**

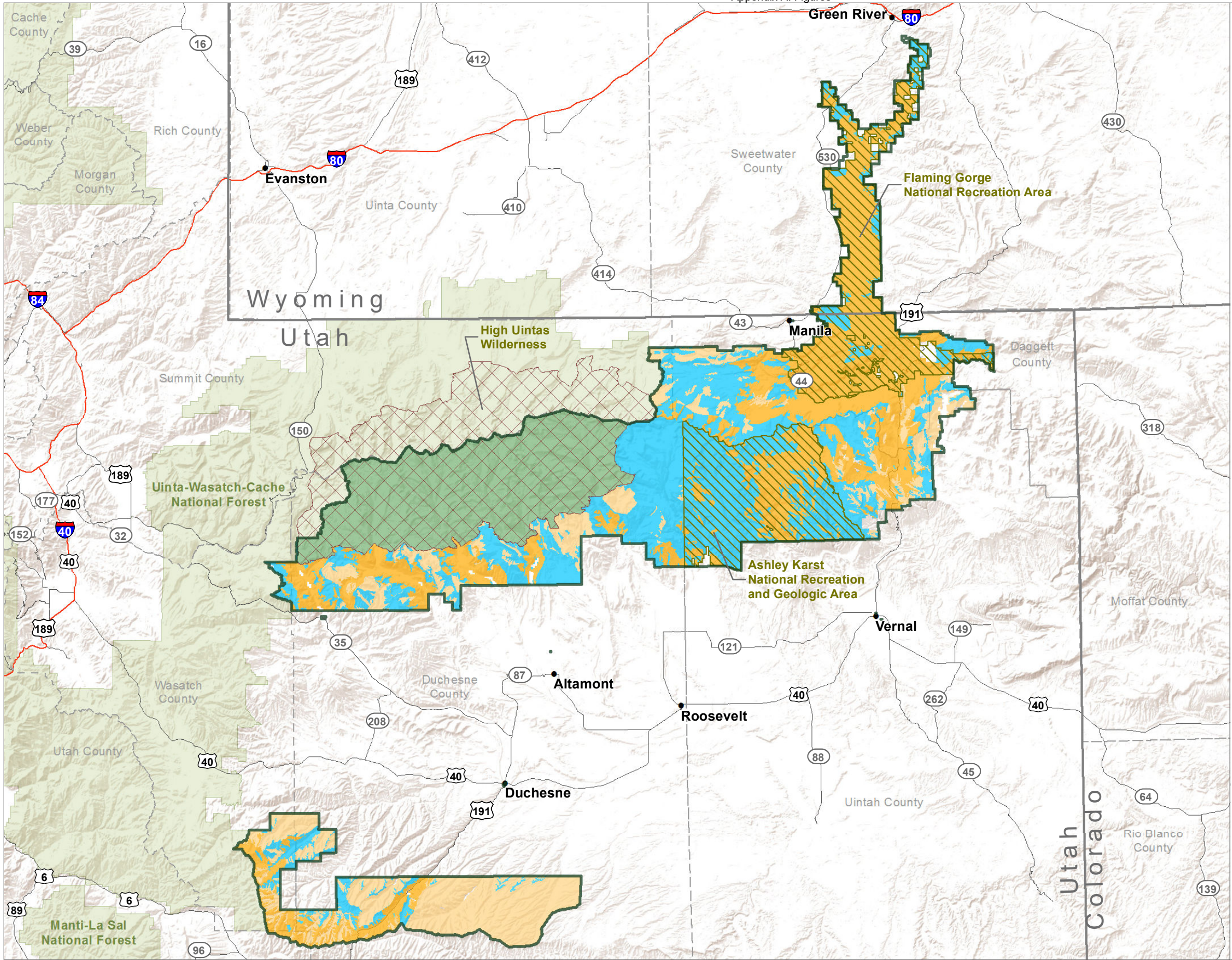
- Preservation
- Retention
- Partial Retention
- Modification
- Maximum Modification
- National Recreation Area
- Designated wilderness
- Ashley National Forest



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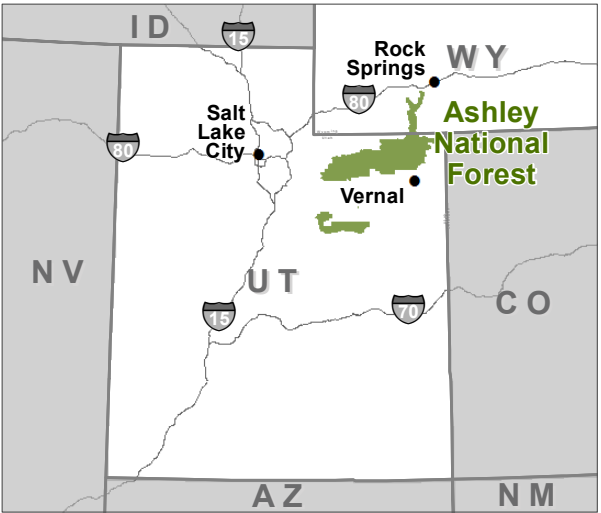




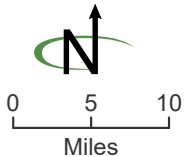


**Figure 2-9**  
**Alternative B Modified:**  
**Scenic Integrity Objective**

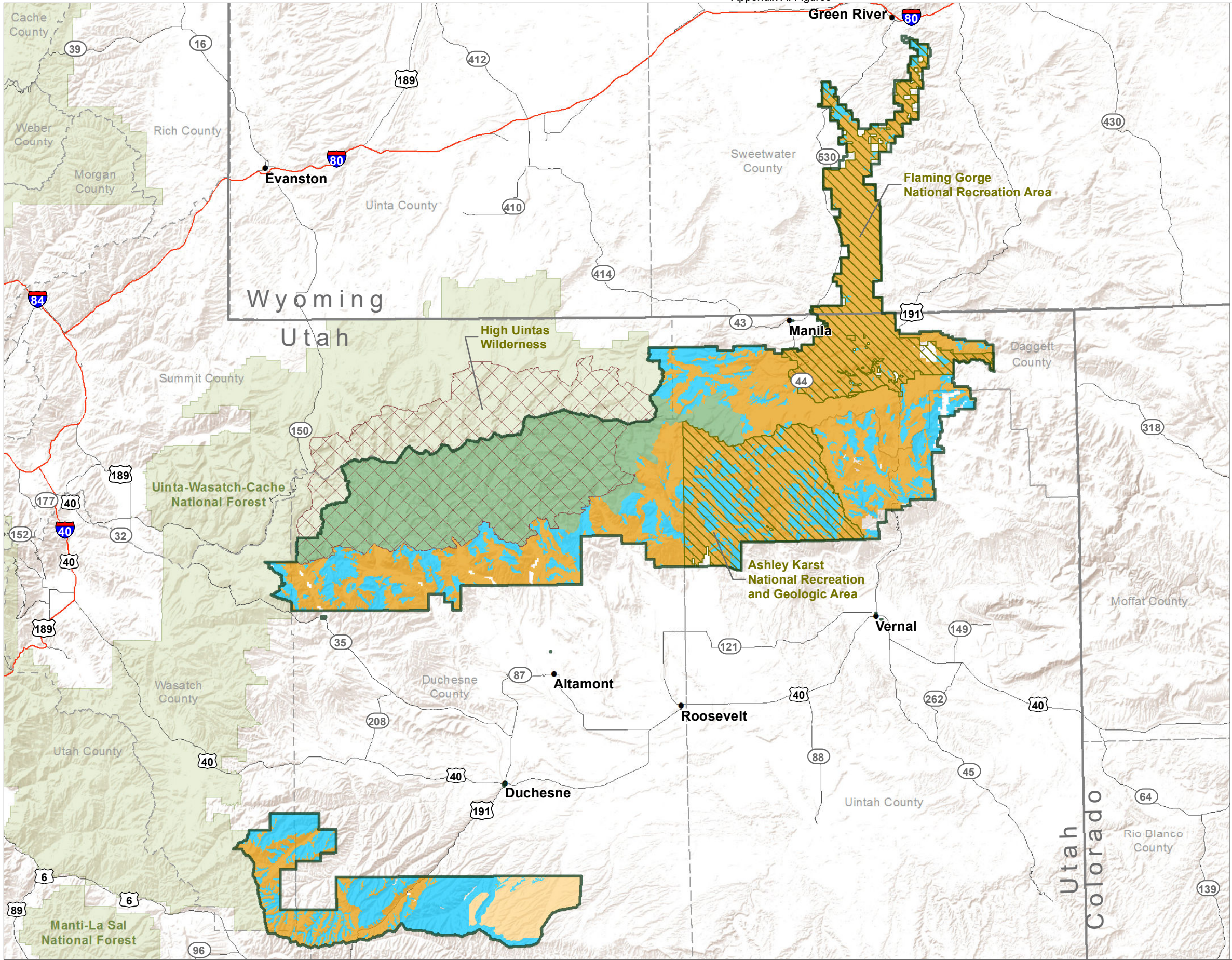
- Very high
- High
- Moderate
- Low
- National Recreation Area
- Designated wilderness
- Ashley National Forest



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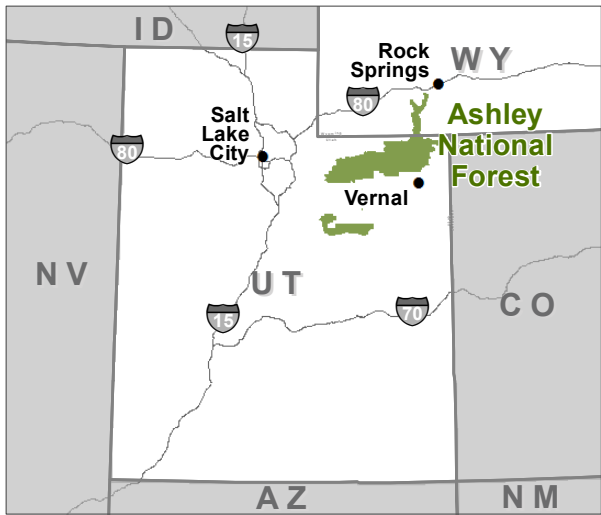




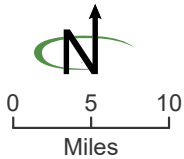


**Figure 2-10**  
**Alternative C: Scenic Integrity**  
**Objective**

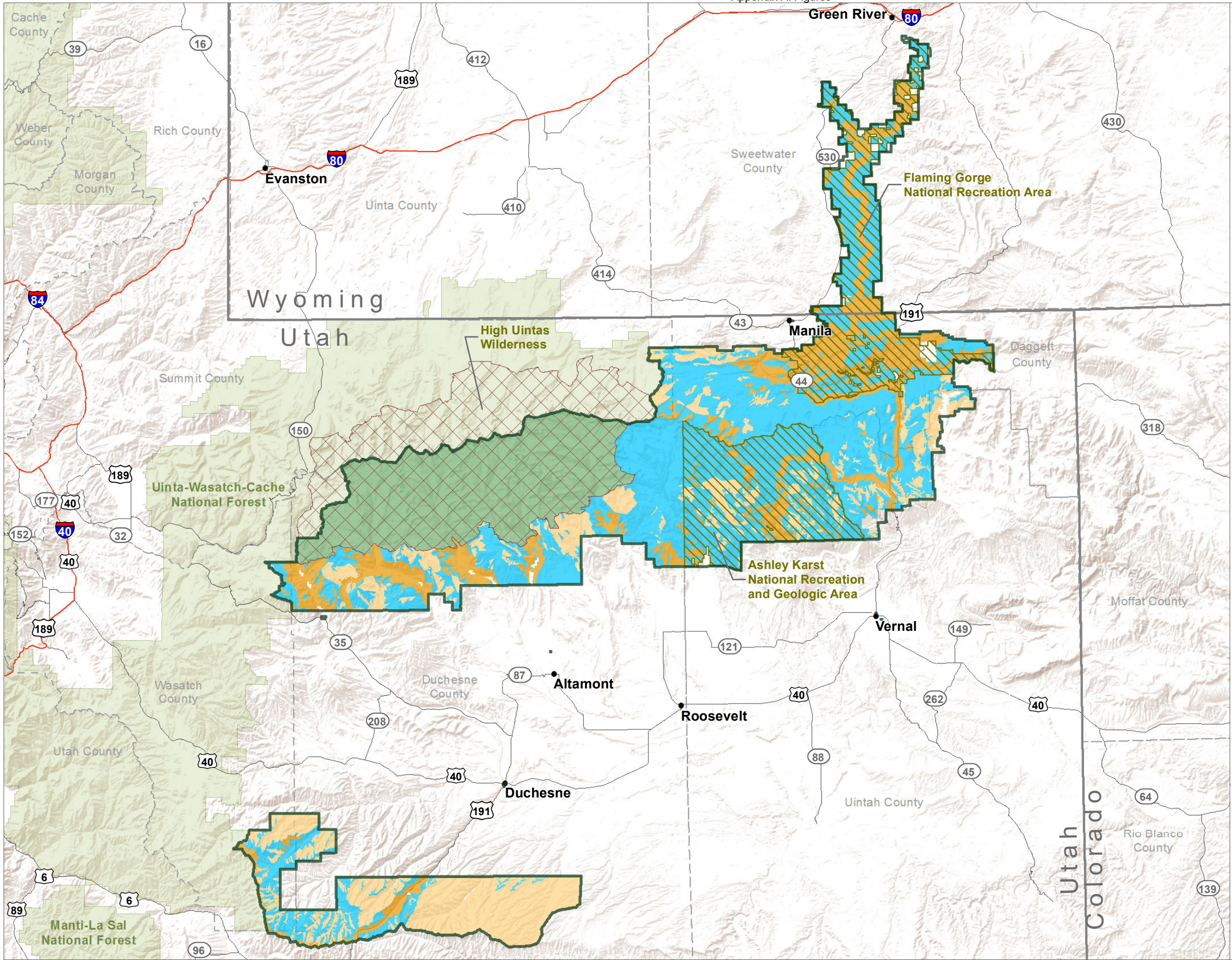
- Very high
- High
- Moderate
- Low
- National Recreation Area
- Designated wilderness
- Ashley National Forest



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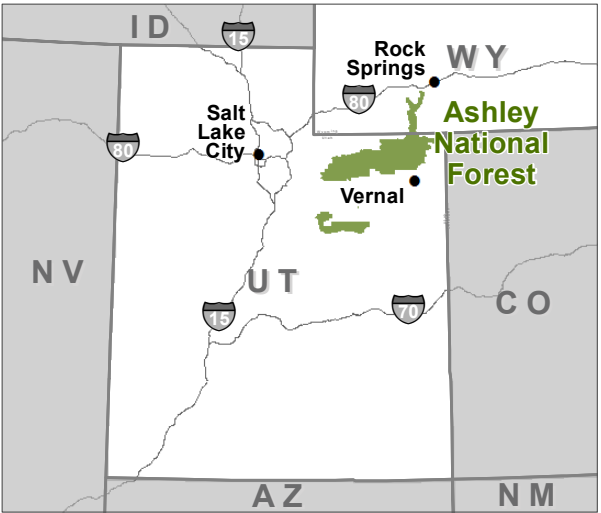




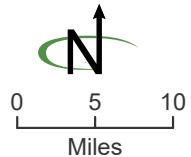


**Figure 2-11**  
**Alternative D:**  
**Scenic Integrity Objective**

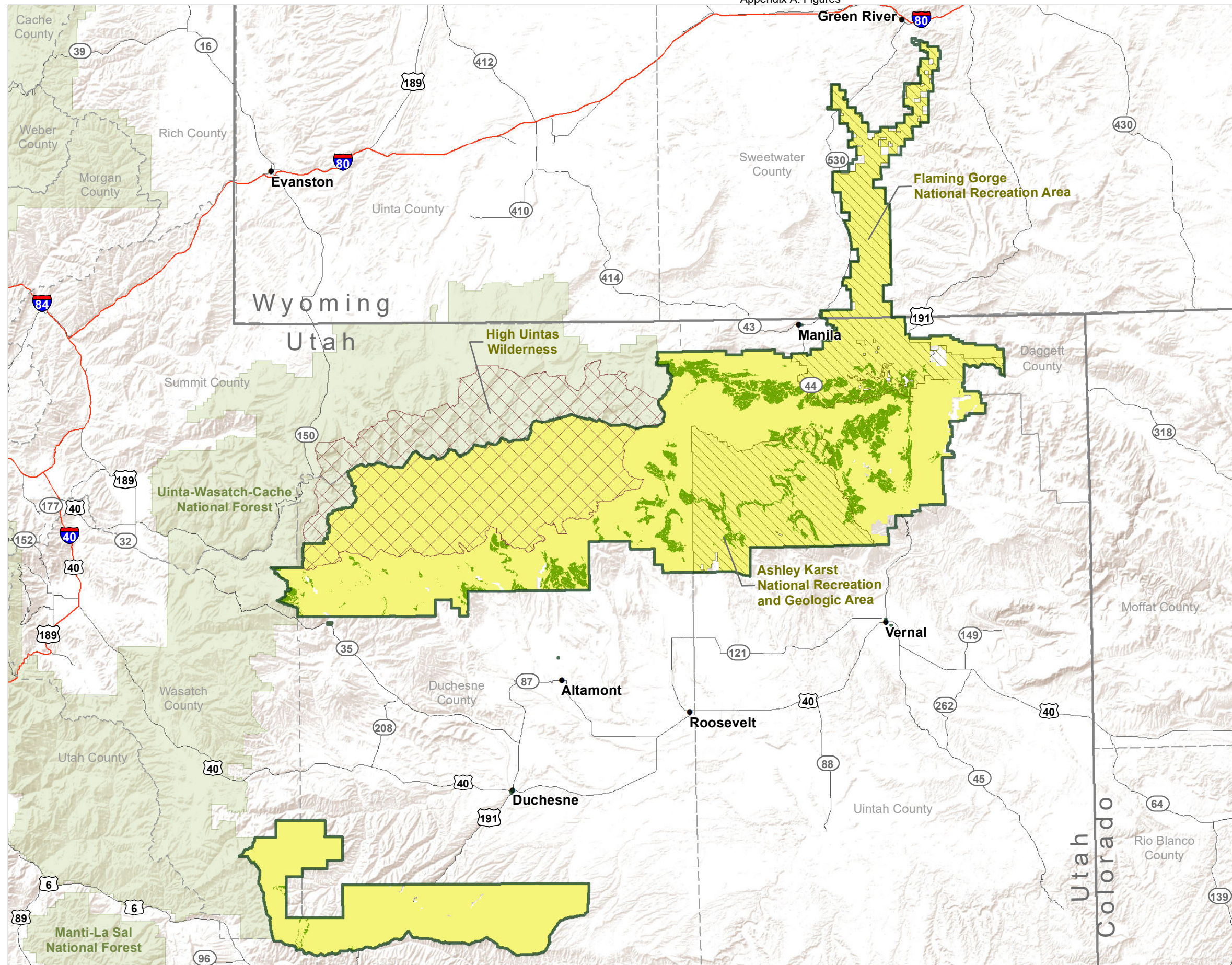
- Very high
- High
- Moderate
- Low
- National Recreation Area
- Designated wilderness
- Ashley National Forest



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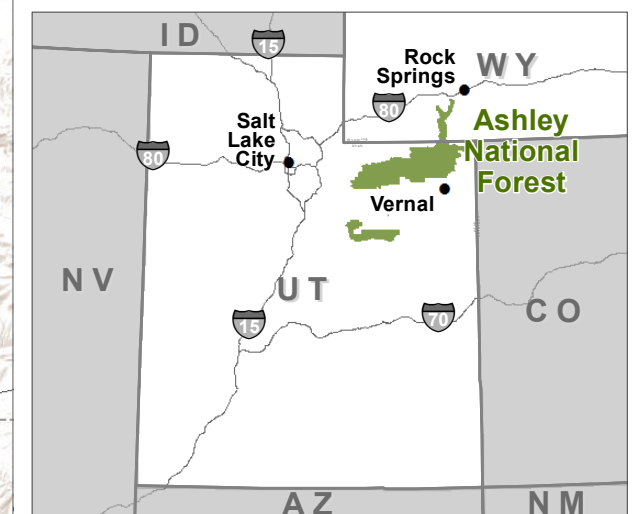




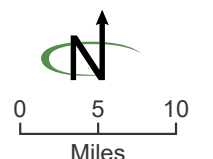


**Figure 2-12**  
**Alternative B Modified: Areas**  
**Suitable for Timber Production**

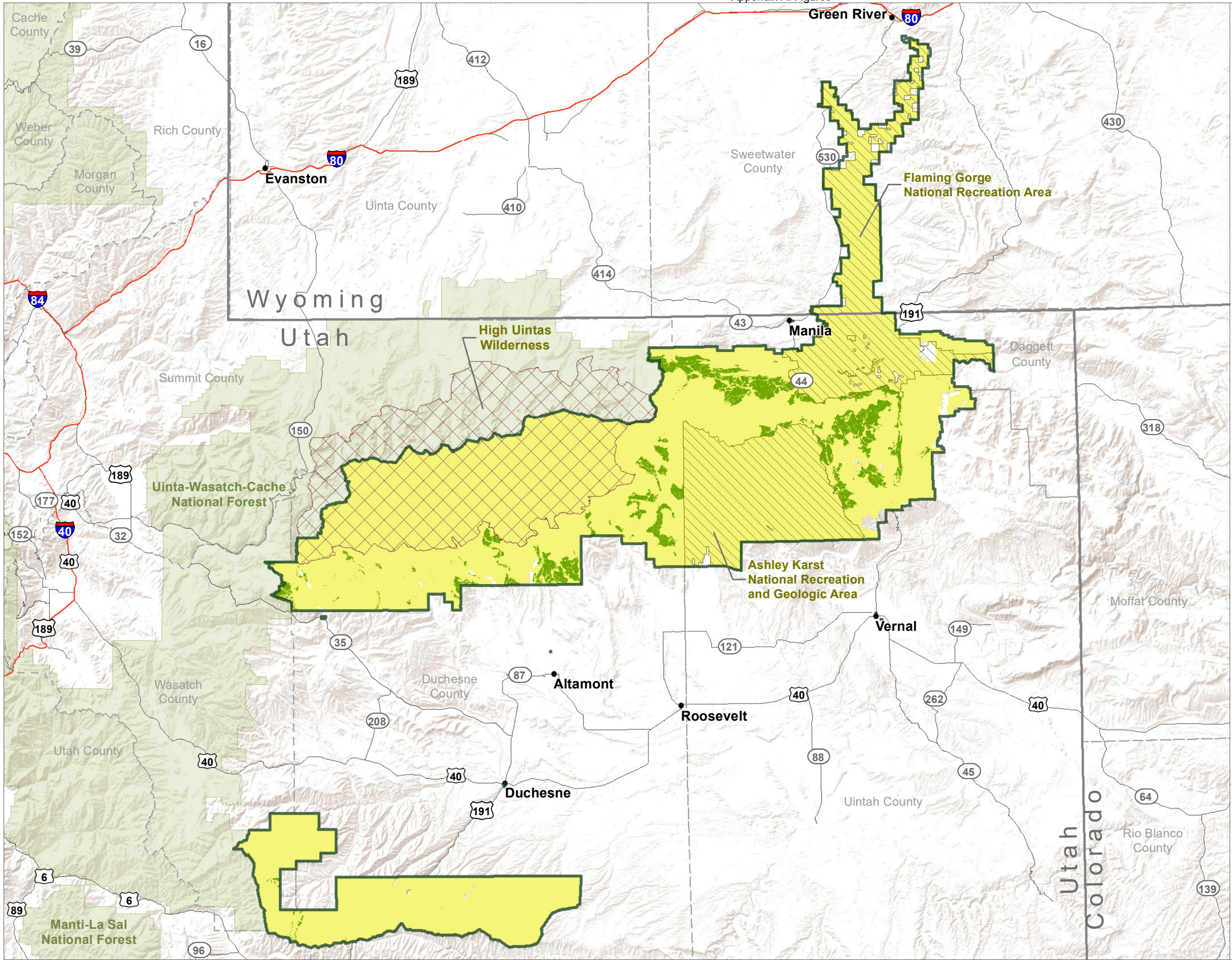
- Not suitable for timber production
- Suitable for timber production
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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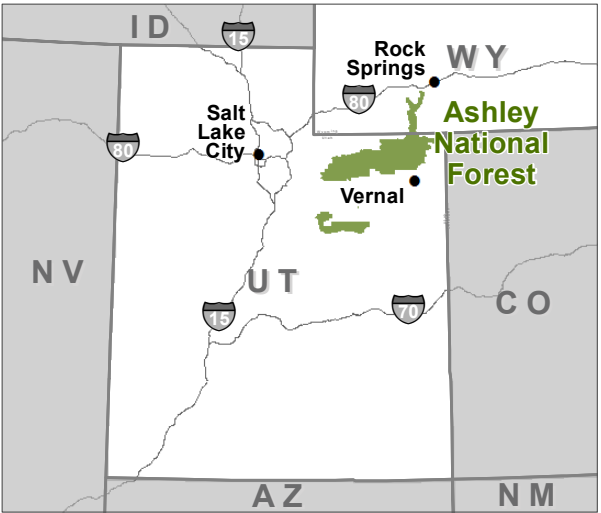




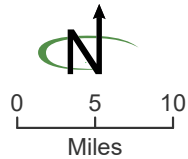


**Figure 2-13**  
**Alternative C: Areas Suitable for Timber Production**

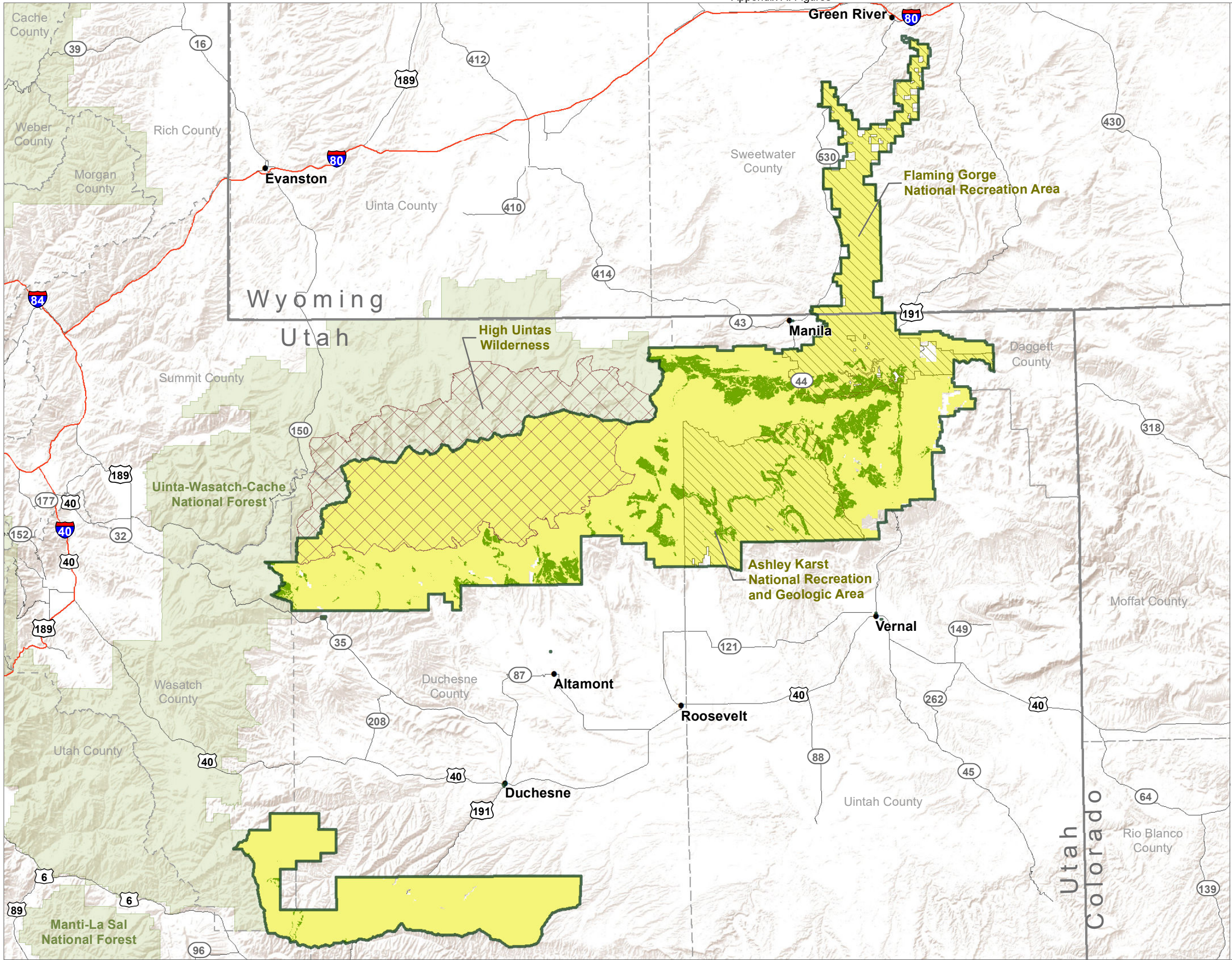
- Not suitable for timber production
- Suitable for timber production
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



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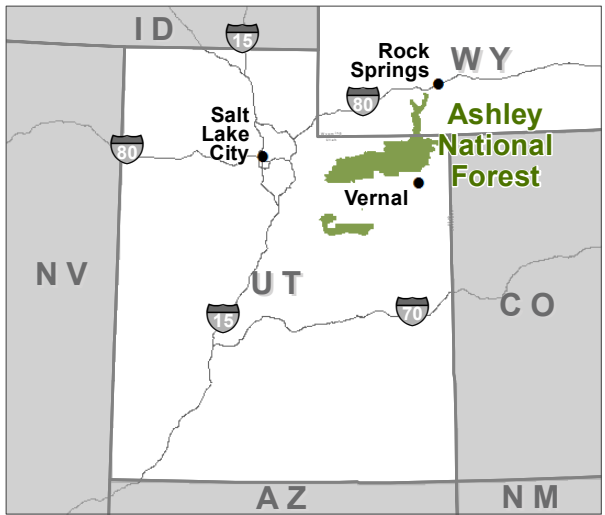




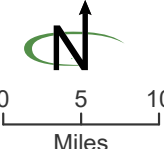


**Figure 2-14**  
**Alternative D: Areas Suitable for**  
**Timber Production**

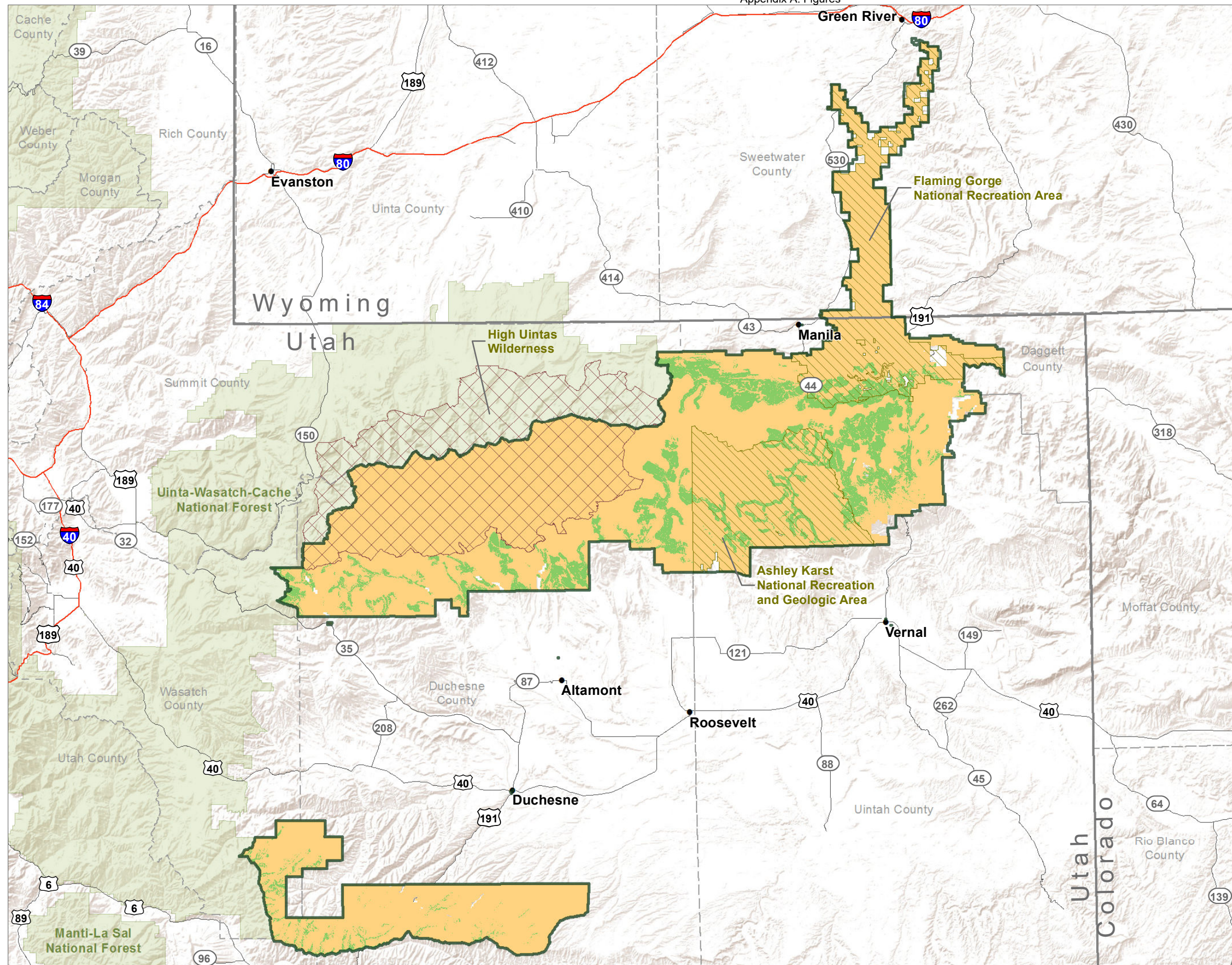
- Not suitable for timber production
- Suitable for timber production
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
February 17, 2023  
Ashley\_forestplan\_alts\_timber\_suitability\_A1D.pdf  
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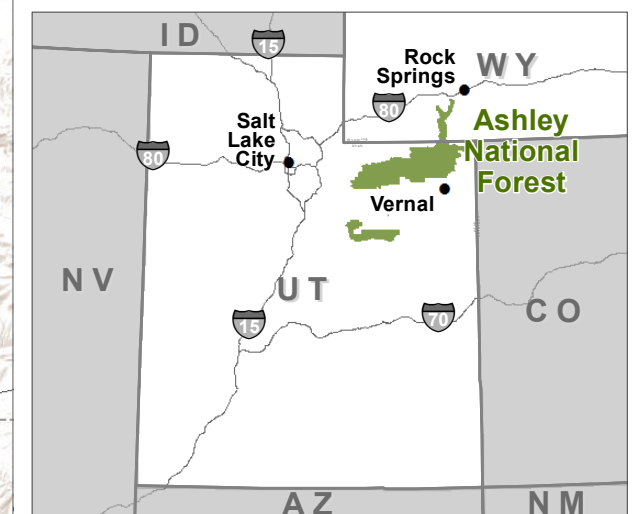




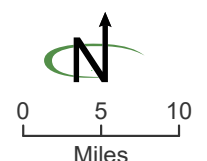


**Figure 2-15**  
**Alternative B Modified:**  
**Areas Suitable for Timber Harvest**

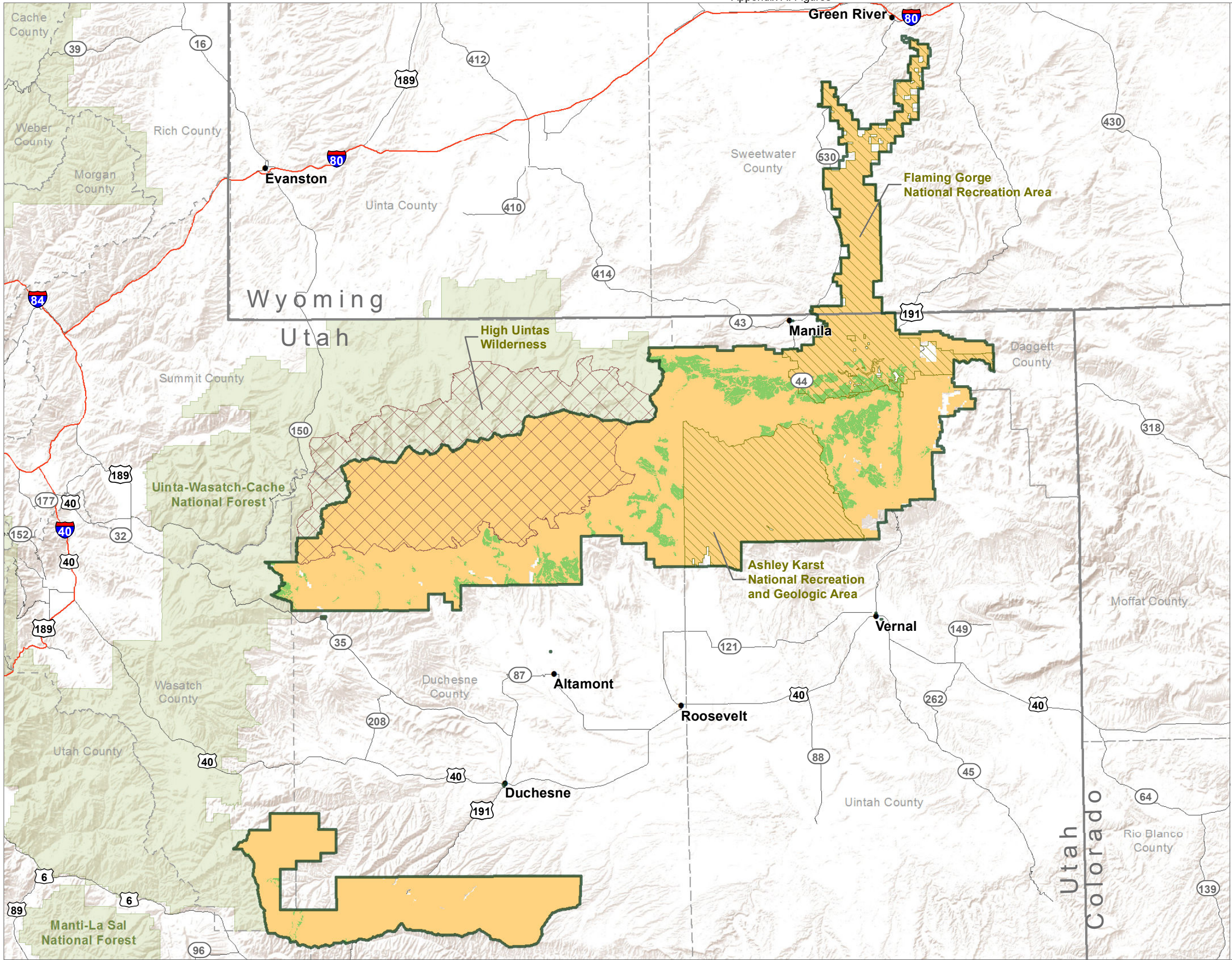
- Not suitable for timber harvest
- Suitable for timber harvest
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
February 17, 2023  
Ashley\_forestplan\_alts\_timber\_harvest\_AltB.pdf  
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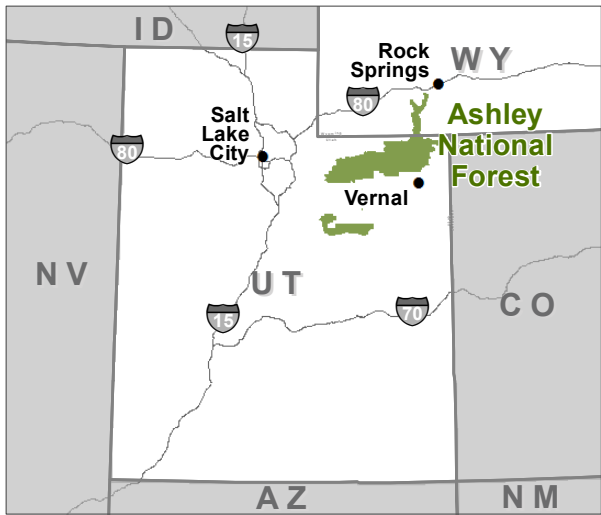




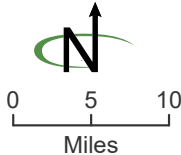


**Figure 2-16**  
**Alternative C: Areas Suitable for**  
**Timber Harvest**

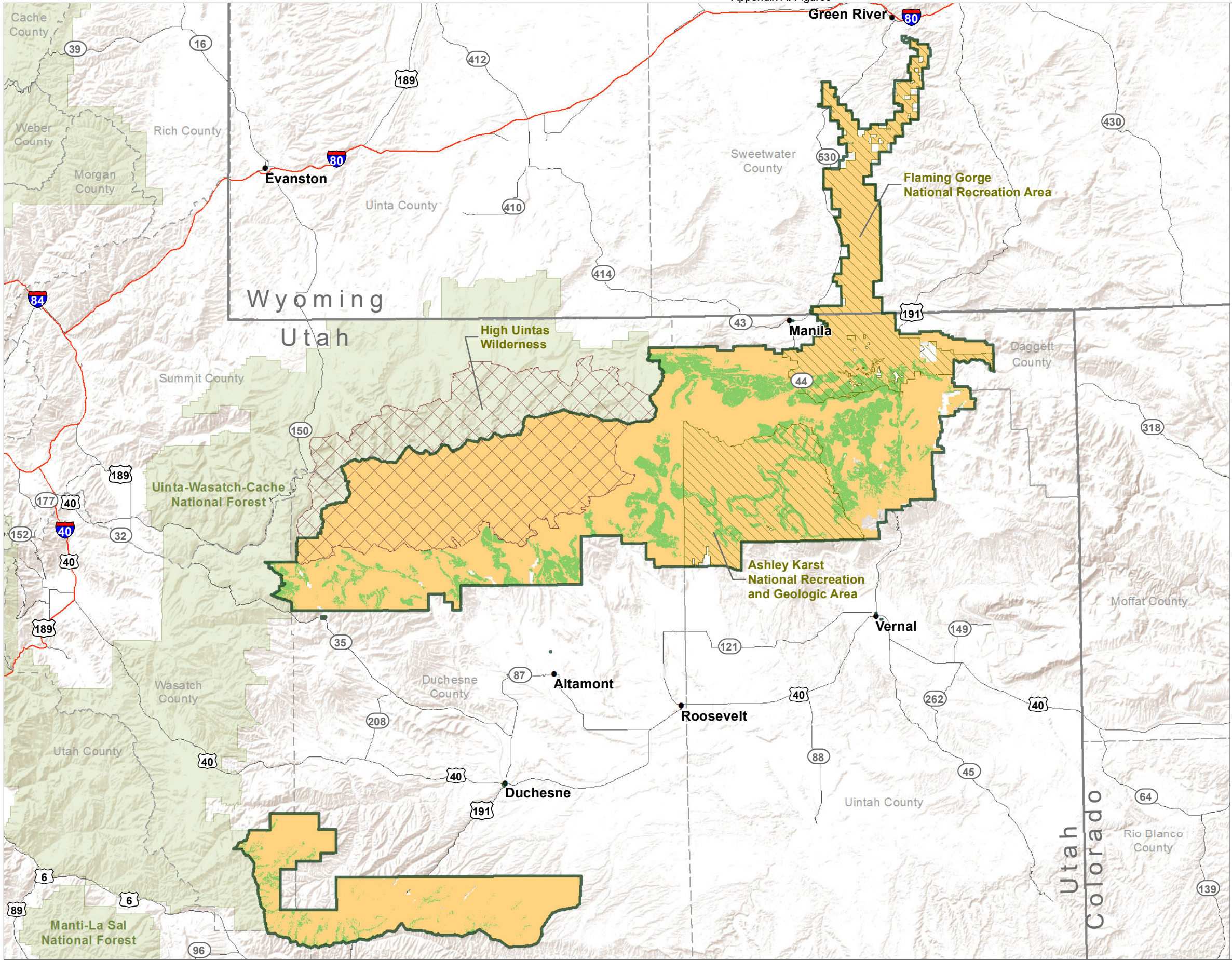
- Not suitable for timber harvest
- Suitable for timber harvest
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
February 17, 2023  
Ashley\_forestplan\_alts\_timber\_harvest\_AltC.pdf  
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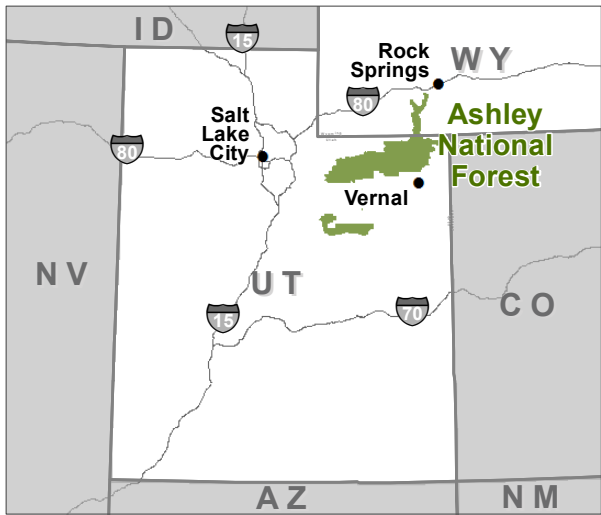




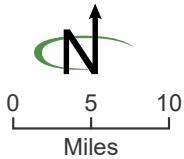


**Figure 2-17**  
**Alternative D: Areas Suitable for**  
**Timber Harvest**

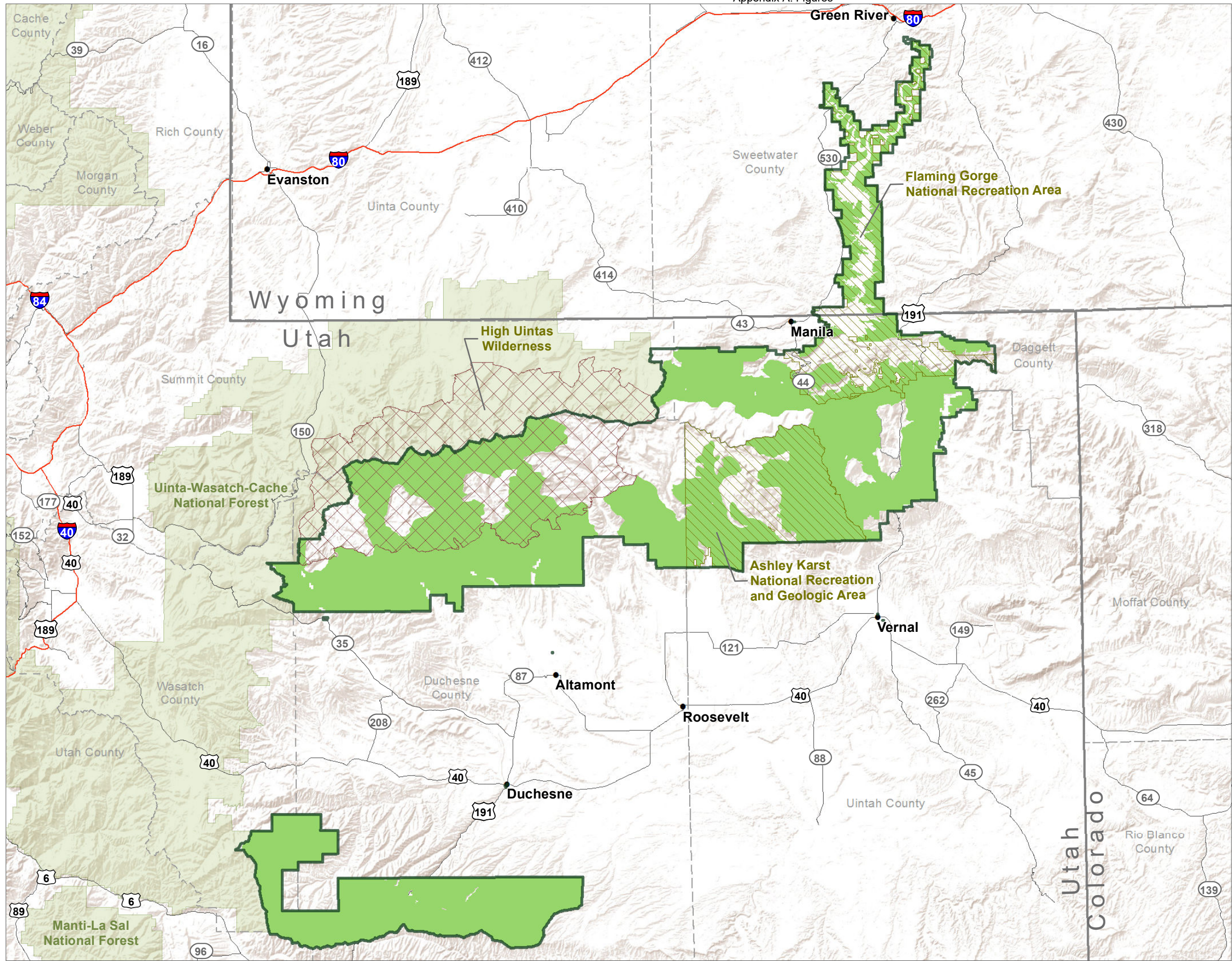
- Not suitable for timber harvest
- Suitable for timber harvest
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
February 17, 2023  
Ashley\_forestplan\_alts\_timber\_harvest\_AltD.pdf  
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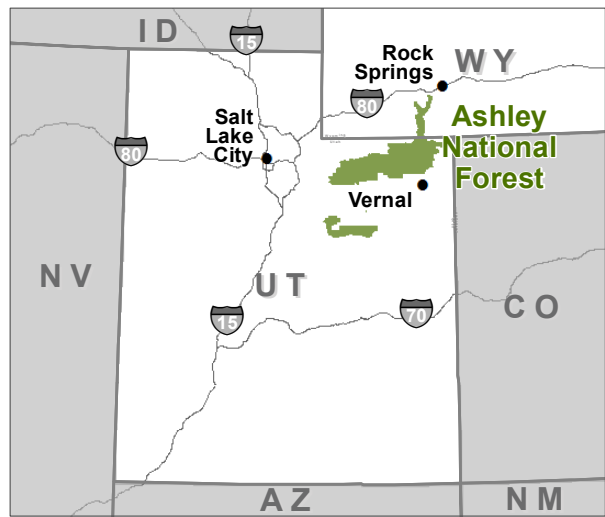




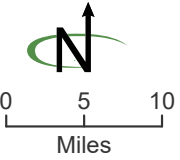


**Figure 2-18**  
**Alternatives A, B Modified, and D:**  
**Grazing Allotments**

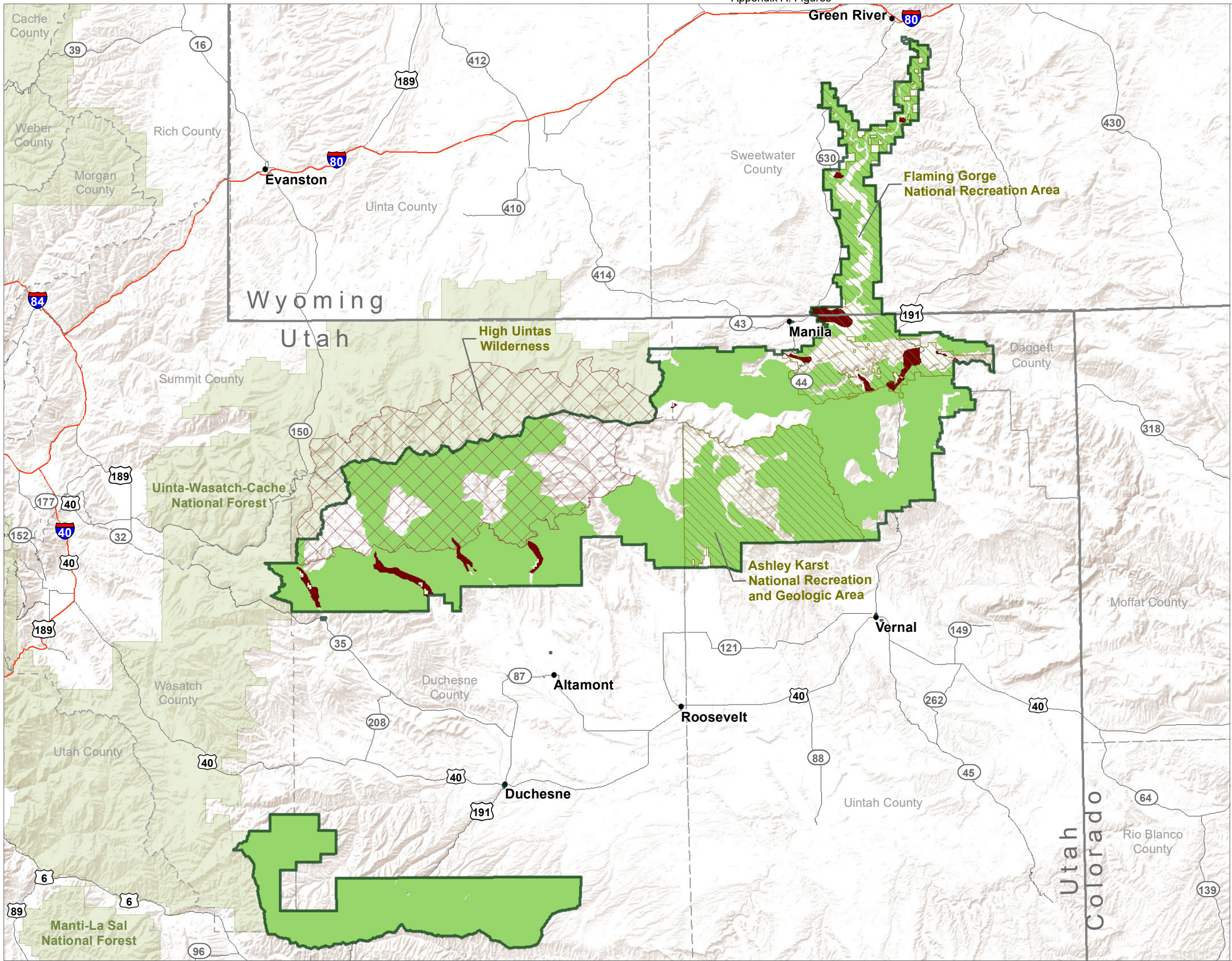
- Active
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
February 17, 2023  
Ashley\_forestplan\_alts\_grazingAllotments\_AltAAltBAltD.pdf  
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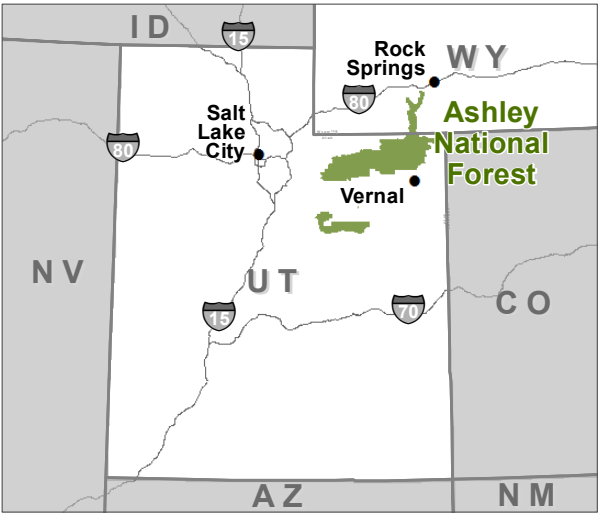




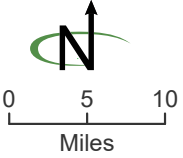


**Figure 2-19**  
**Alternative C: Grazing Allotments**

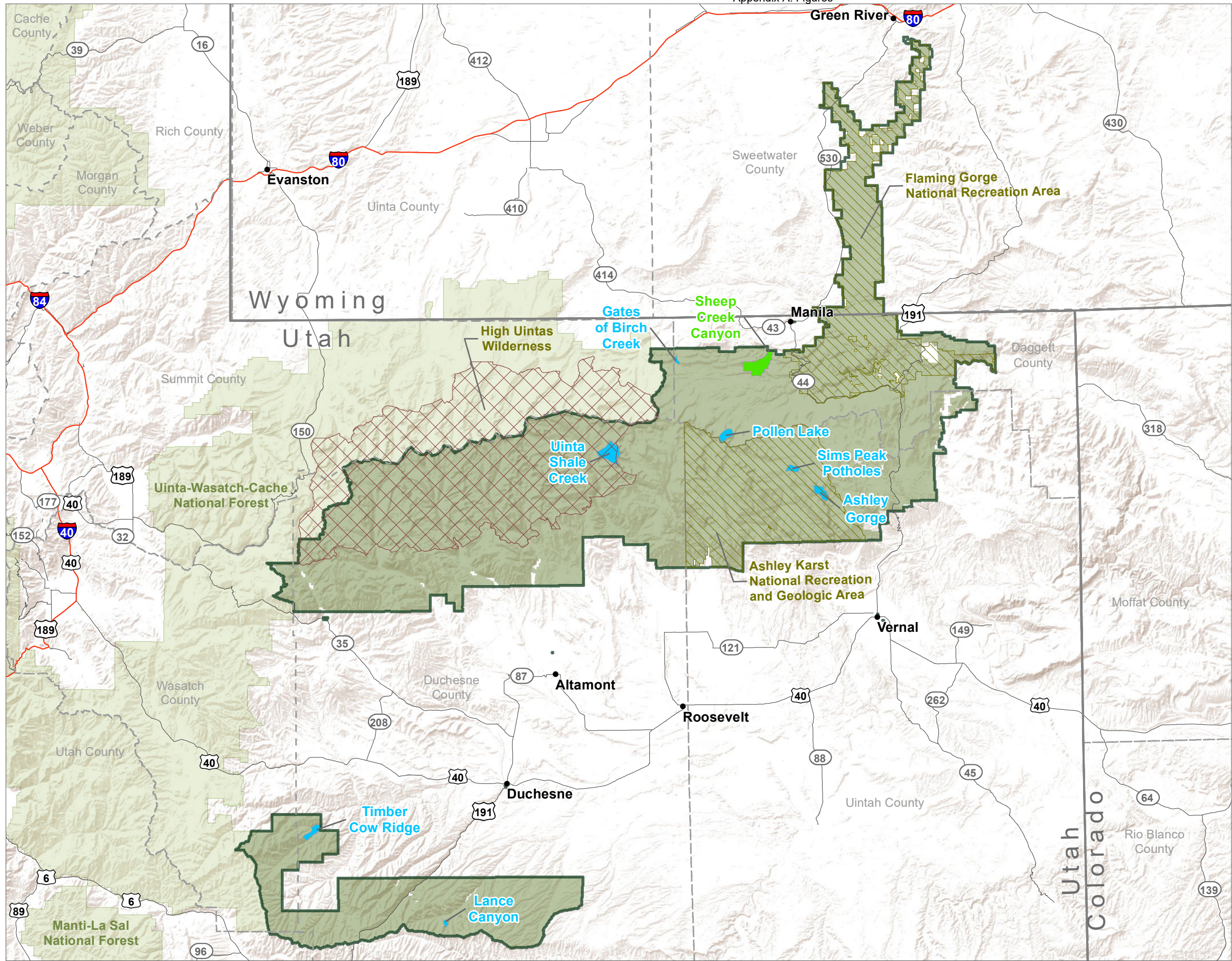
- Active
- Closed, Destination Recreation MA
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
February 17, 2023  
Ashley\_forestplan\_alts\_grazingAllotments\_AITC.pdf  
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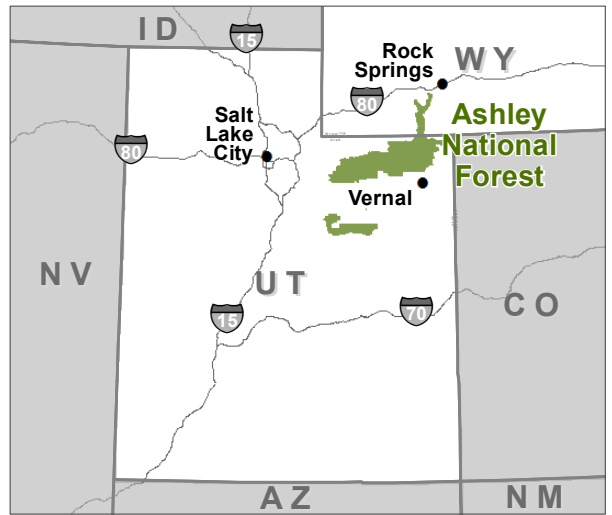




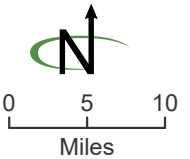


**Figure 2-20**  
**Alternatives A, B Modified, and D:**  
**Existing Research Natural Areas**

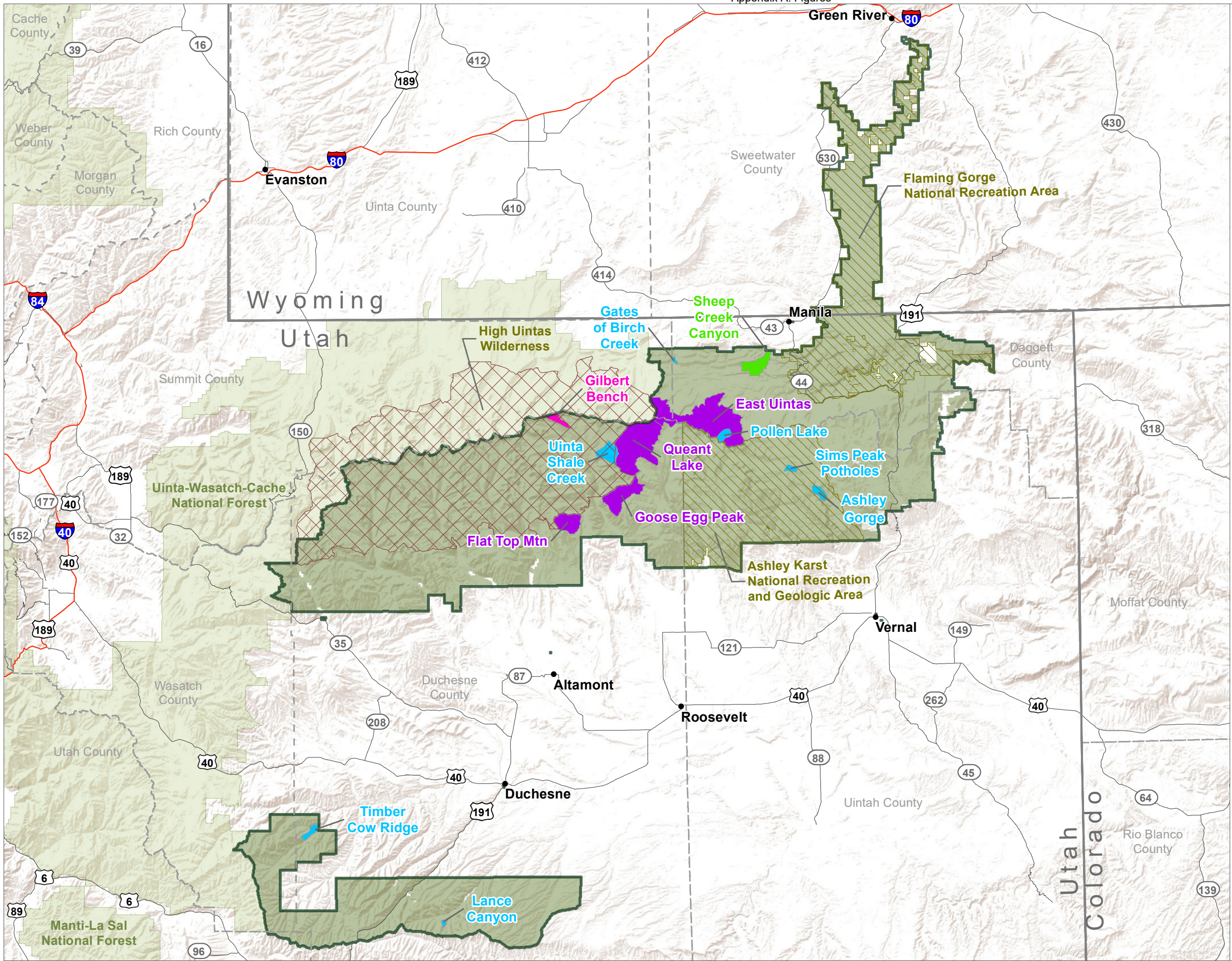
- Existing RNA
- Existing SMA
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
February 17, 2023  
Ashley\_forestplan\_alts\_wilderness\_AltAAltBAltD.pdf  
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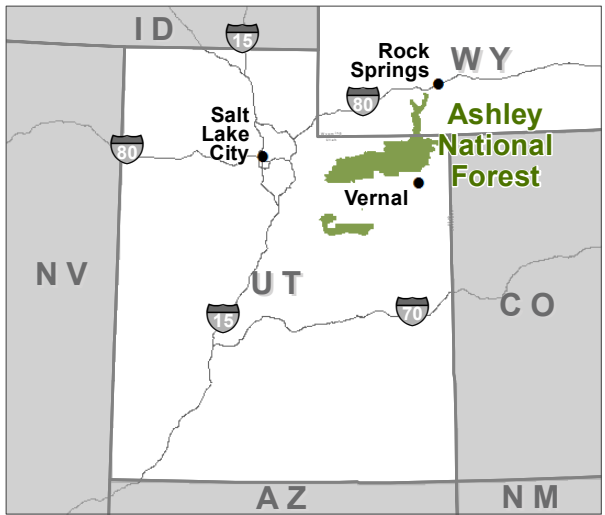




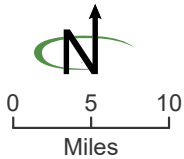


**Figure 2-21**  
**Alternative C: Recommended**  
**Wilderness Areas and Existing and**  
**Proposed Research Natural Areas**

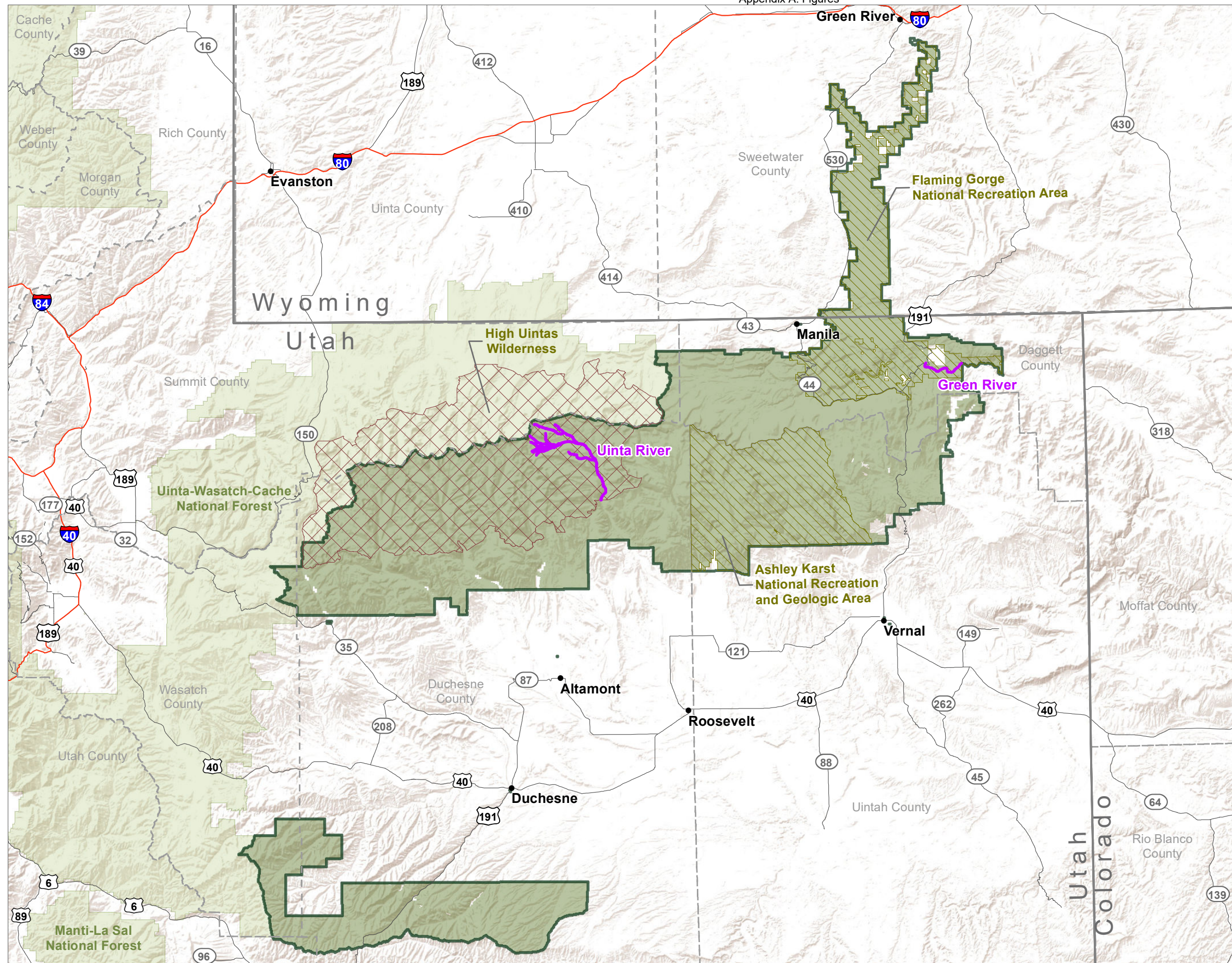
- Recommended wilderness areas
- Proposed RNA
- Existing RNA
- Existing Special Management Area
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
February 17, 2023  
Ashley\_forestplan\_alts\_wilderness\_AltC.pdf  
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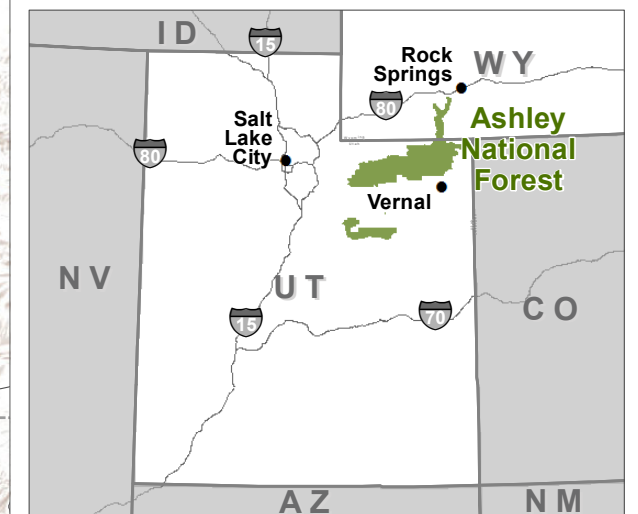




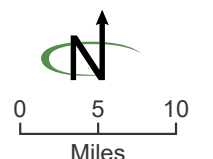


**Figure 2-22**  
**Alternatives A, B Modified, and D:**  
**Existing Suitable Wild and**  
**Scenic River Segments**

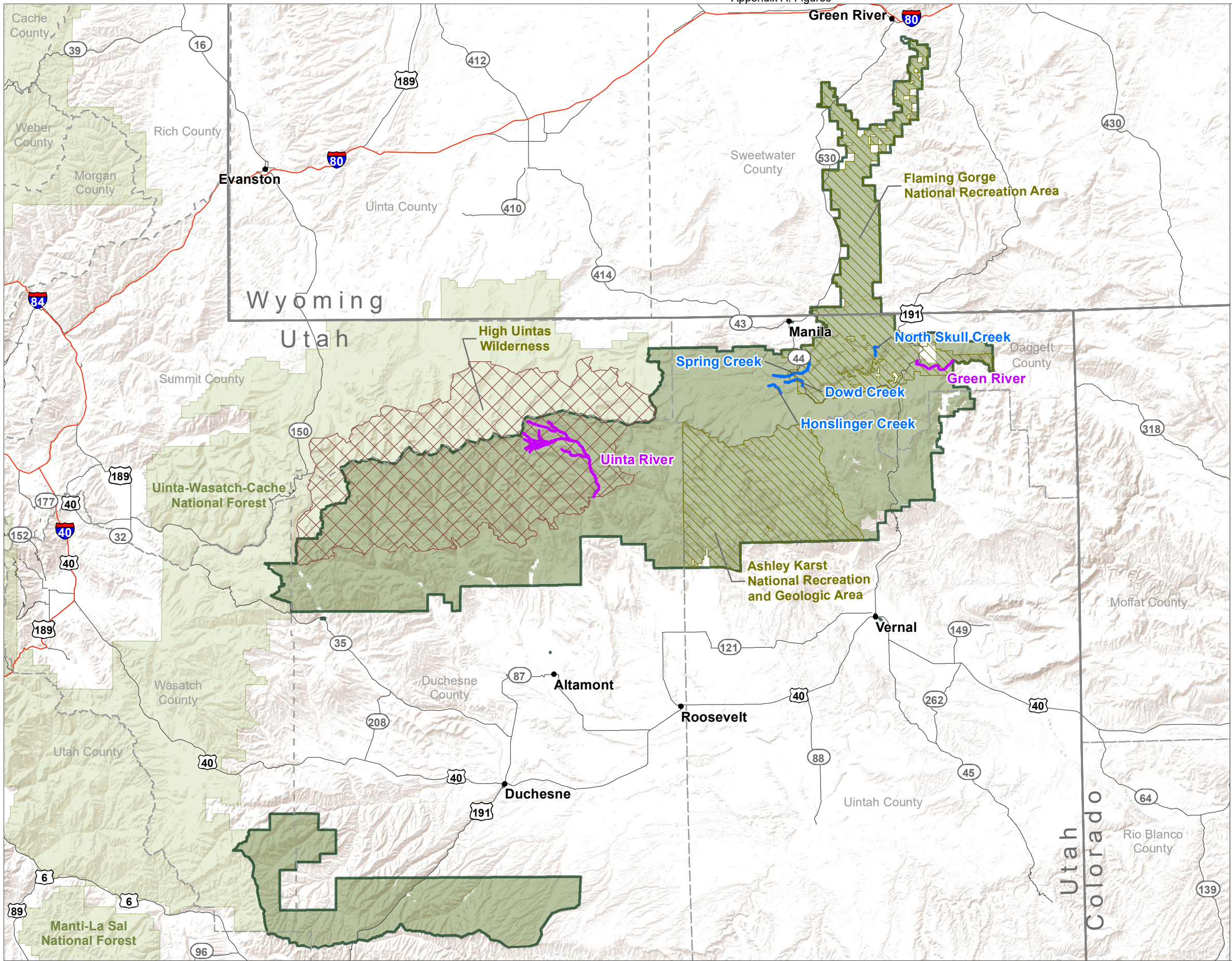
- Existing suitable wild and scenic river (WSR) segment
- ▨ National Recreation Area
- ▨ Designated Wilderness
- ▨ Ashley National Forest



Source: Forest Service GIS 2020  
 February 17, 2023  
 Ashley\_forestplan\_alts\_WSR\_AltAAIIBAltD.pdf  
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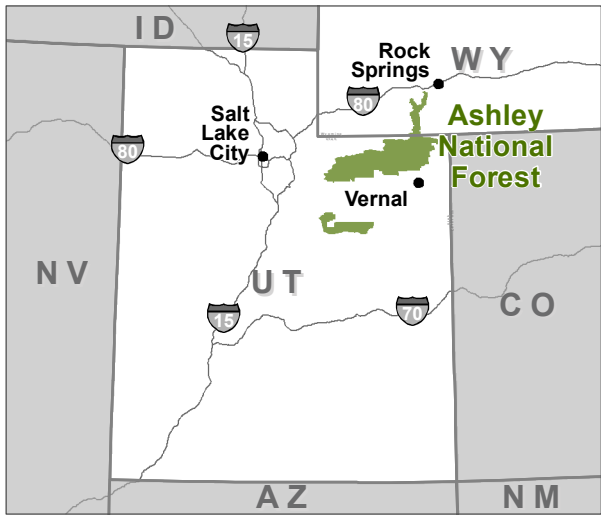




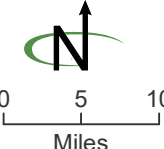


**Figure 2-23**  
**Alternative C: Existing Suitable**  
**and Eligible Wild and Scenic River**  
**Segments**

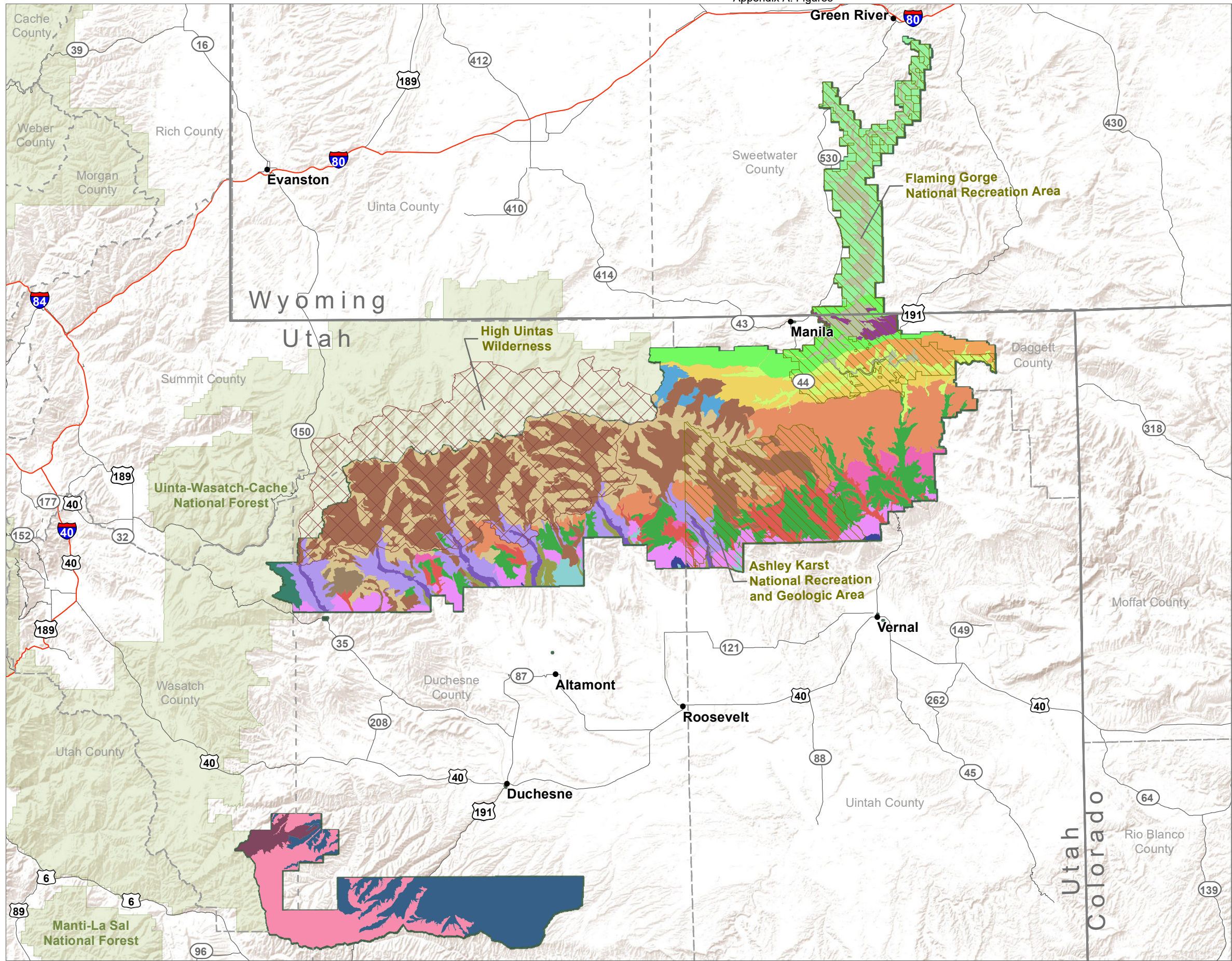
- Existing suitable wild and scenic river (WSR) segment
- Eligible WSR
- National Recreation Area
- Designated Wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
March 16, 2023  
Ashley\_forestplan\_alts\_WSR\_AltC.pdf  
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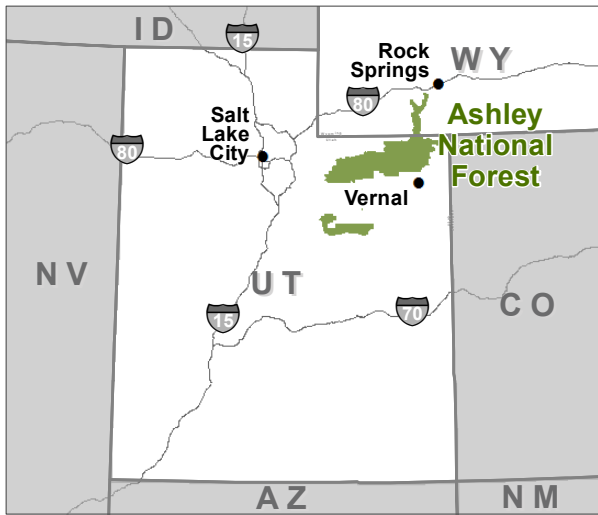




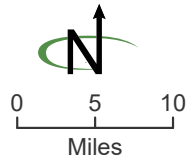
**Figure 3-3**  
**Land Type Associations**

- |                      |                  |
|----------------------|------------------|
| 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     |

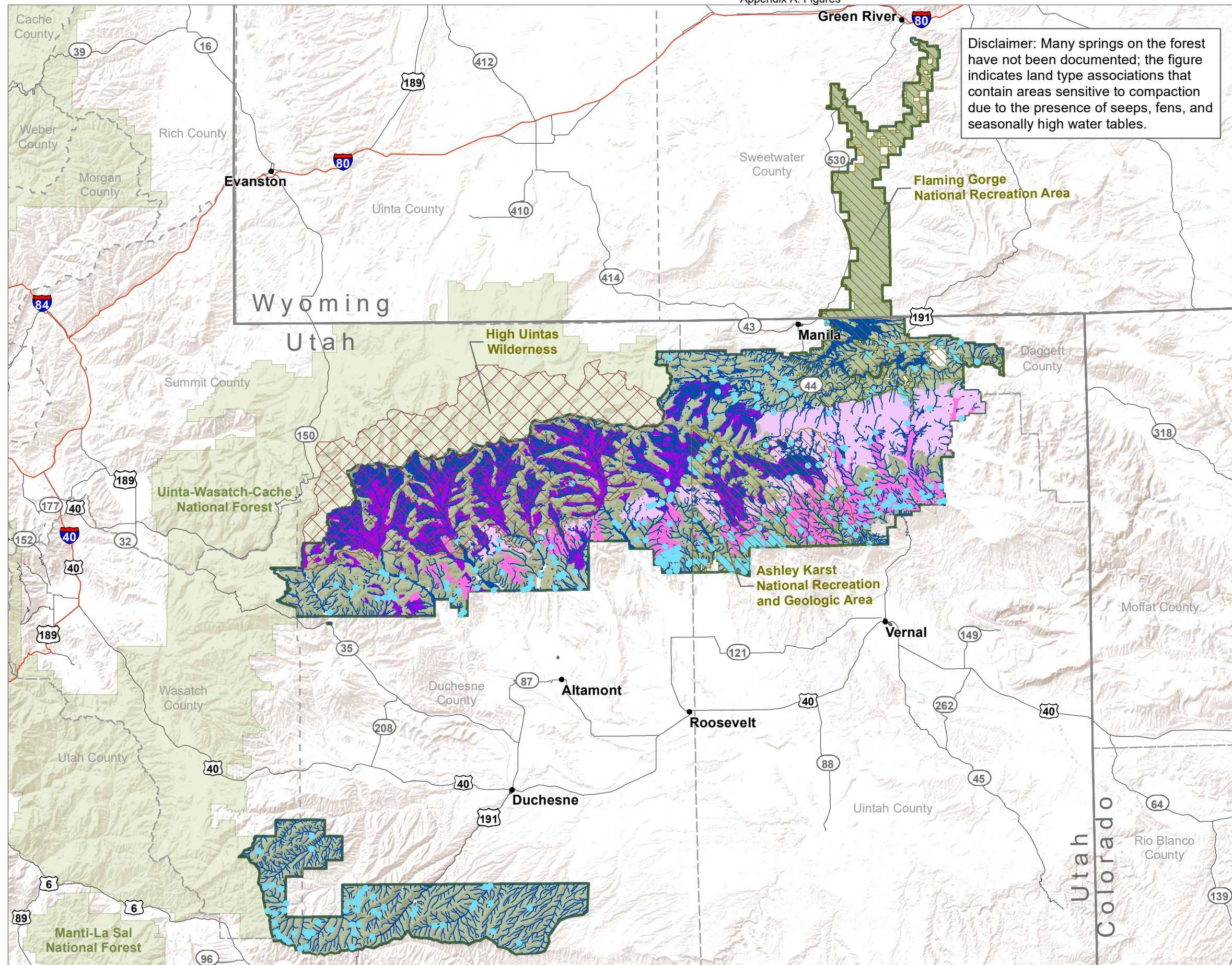
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
November 02, 2022  
Ashley\_forestplan\_AE\_soils\_LTA.pdf  
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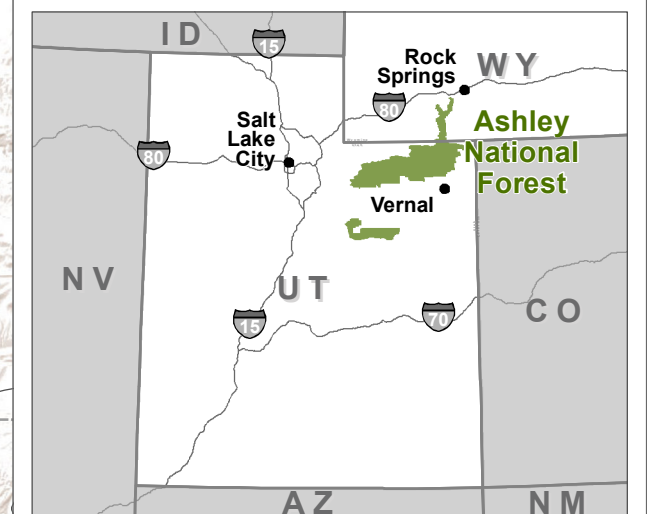




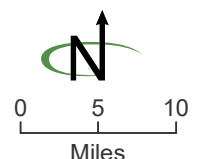


**Figure 3-4**  
**Areas Most Sensitive to Soil Compaction**

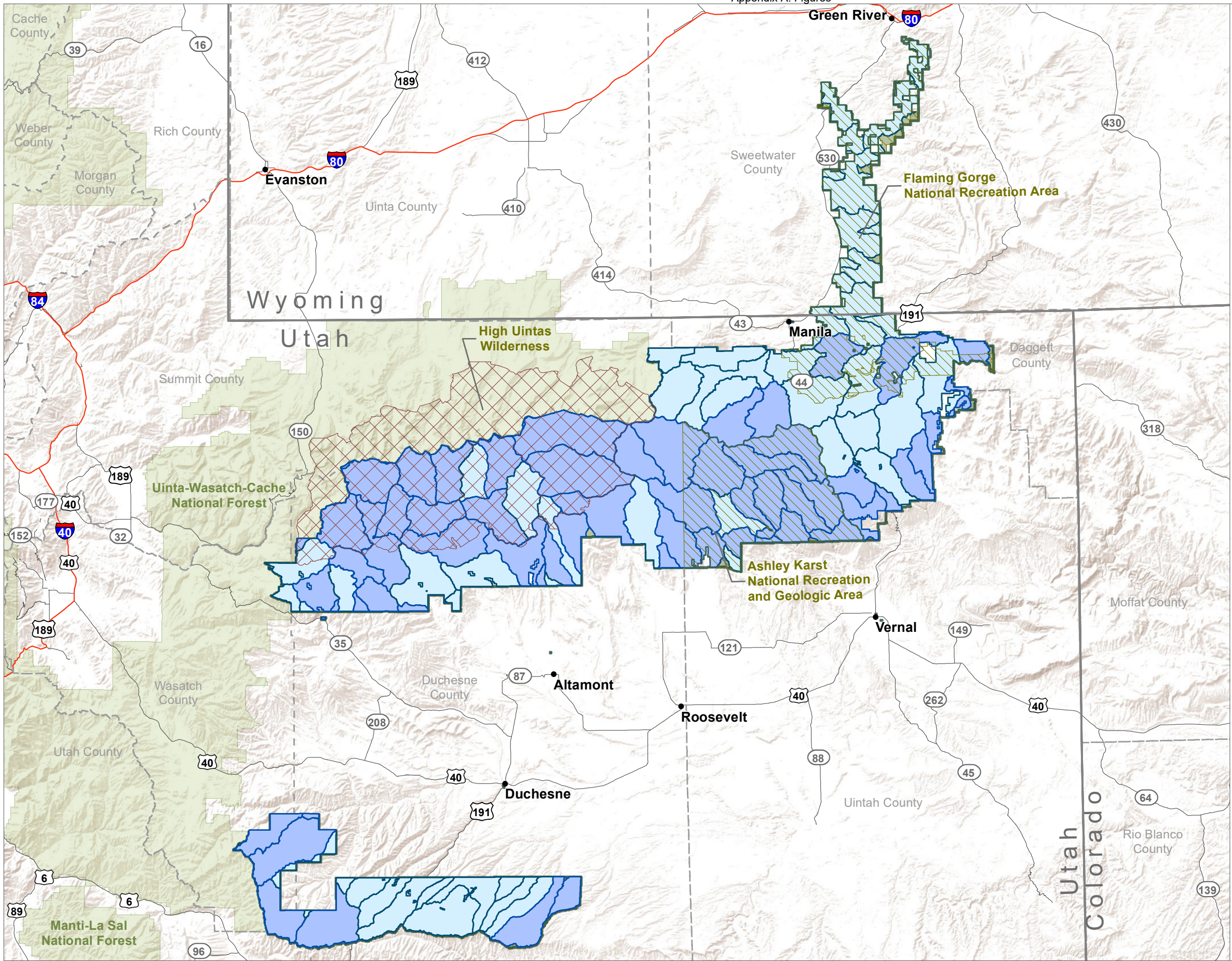
- Spring
- Fen/wetland
- Highly concentrated seeps
- Highly concentrated high water table areas
- Areas with both seeps and high water table areas
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
April 05, 2023  
Ashley\_forestplan\_AE\_soils\_compaction.pdf  
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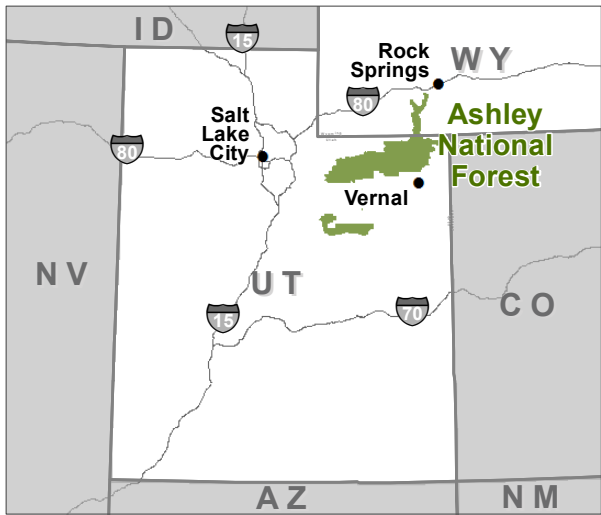




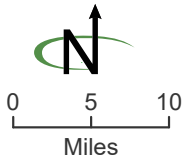


**Figure 3-5**  
**Watershed Condition Ratings**

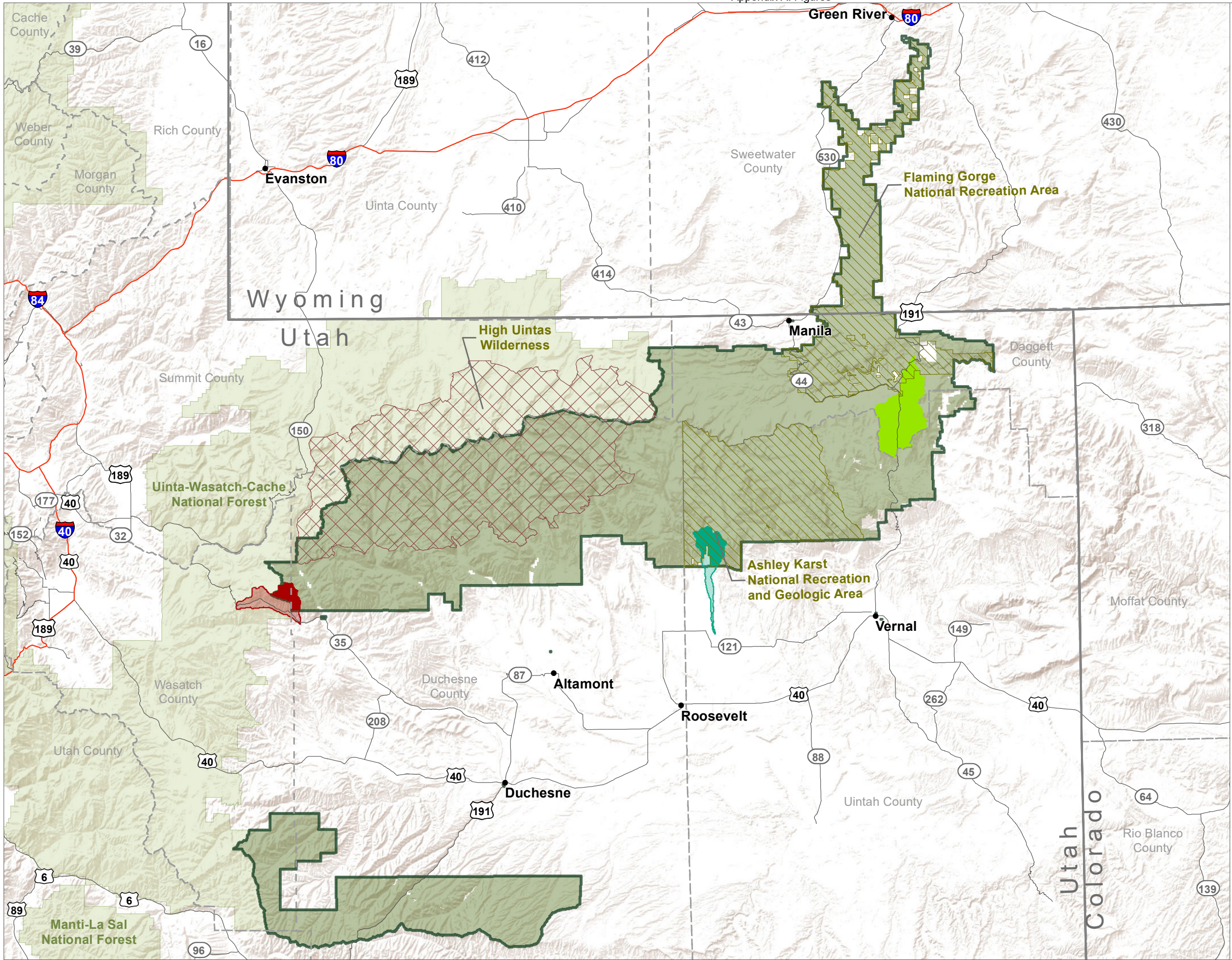
- Functioning properly
- Functioning at risk
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
November 02, 2022  
Ashley\_forestplan\_AE\_hydro\_watershedcondition.pdf  
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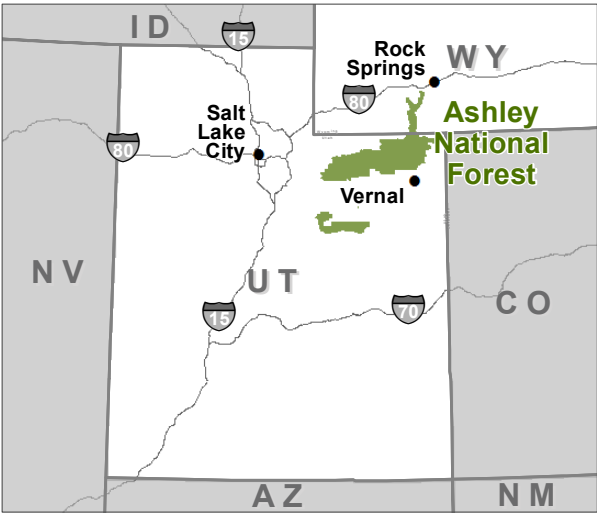




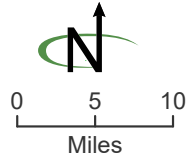


**Figure 3-6**  
**Priority Watersheds**

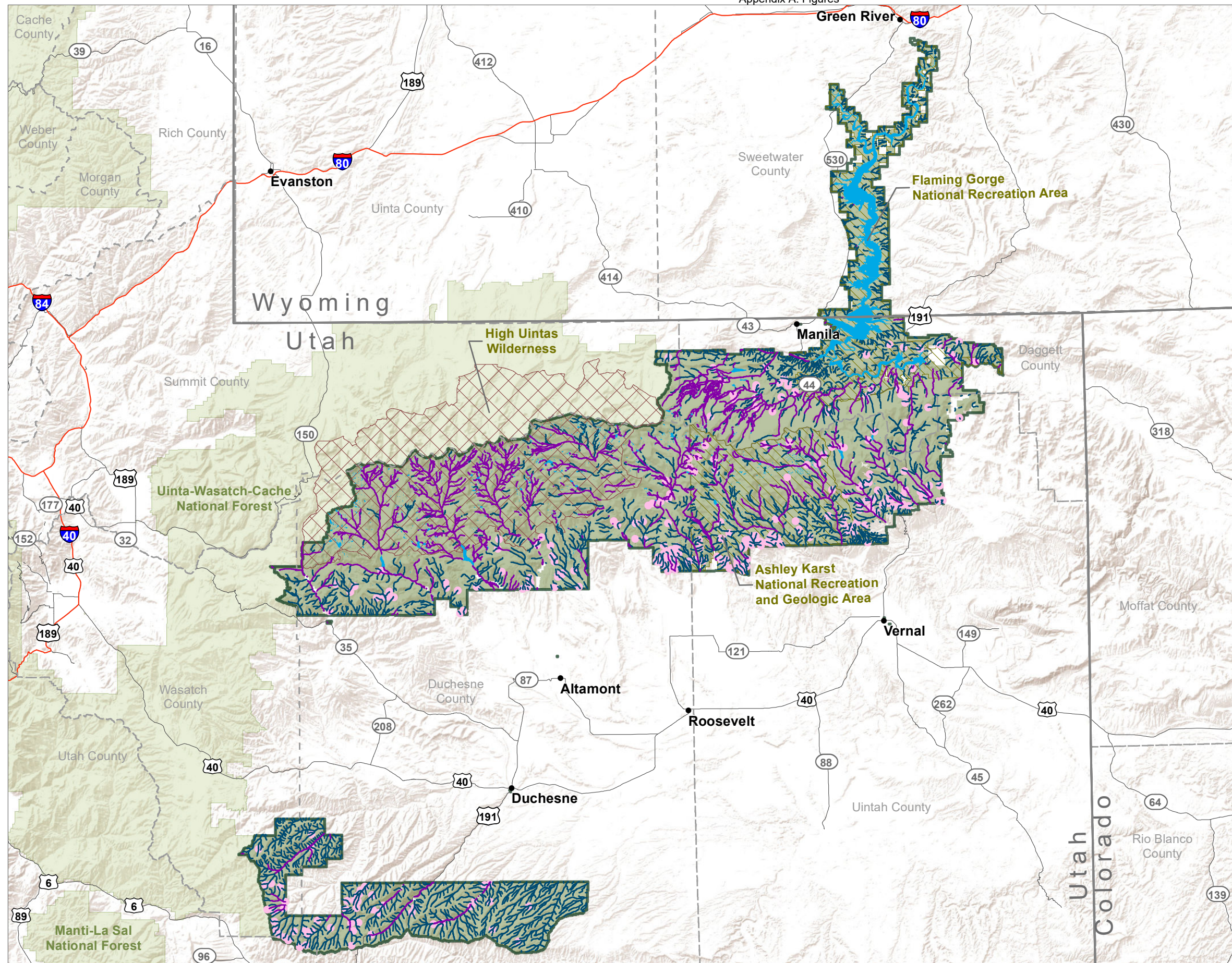
- Cart Creek
- Whiterocks River
- Wolf Creek
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
November 02, 2022  
Ashley\_forestplan\_AE\_hydro\_prioritywatersheds.pdf  
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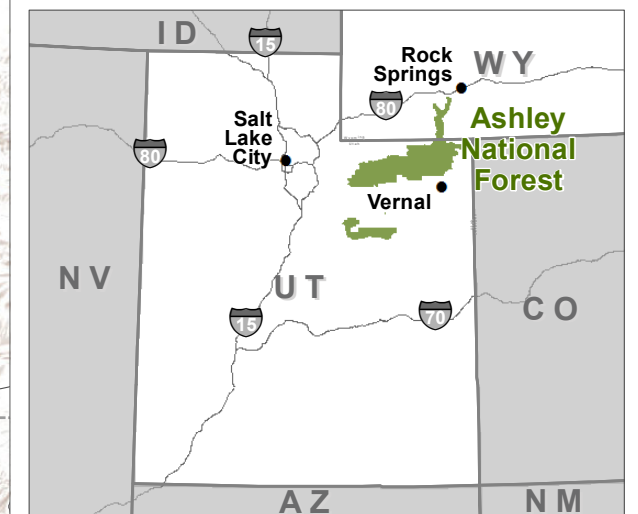




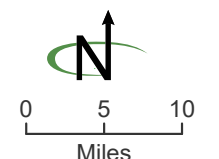


**Figure 3-7  
Streams and Waterbodies**

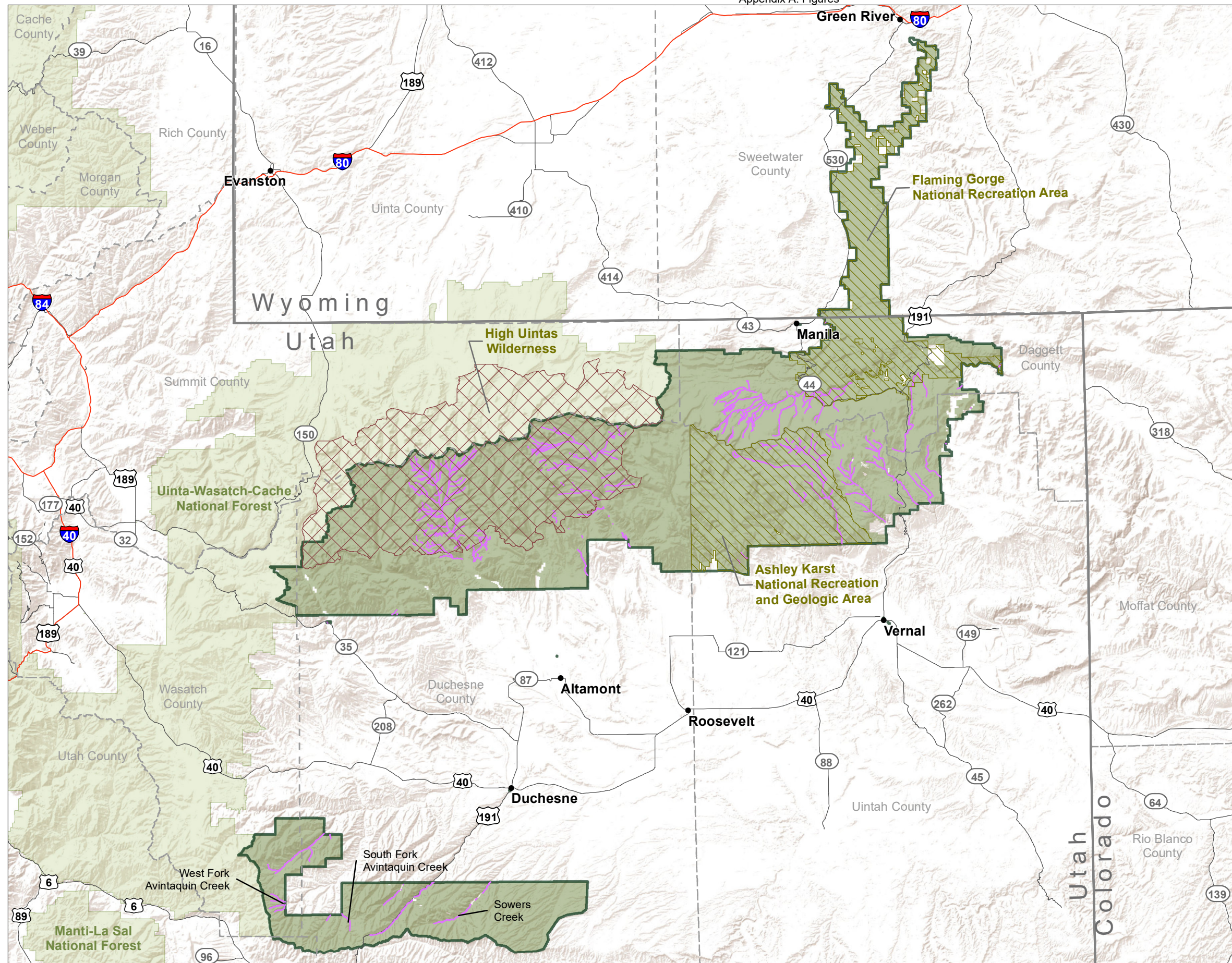
- Intermittent
- Perennial
- Spring or seep
- Waterbody
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
November 02, 2022  
Ashley\_forestplan\_AE\_hydro\_StreamsWaterbodies.pdf  
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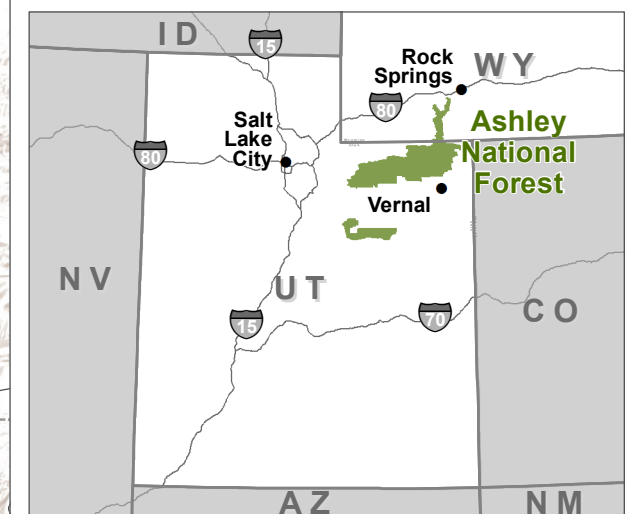




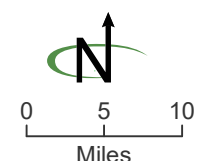


**Figure 3-8  
Impaired Streams**

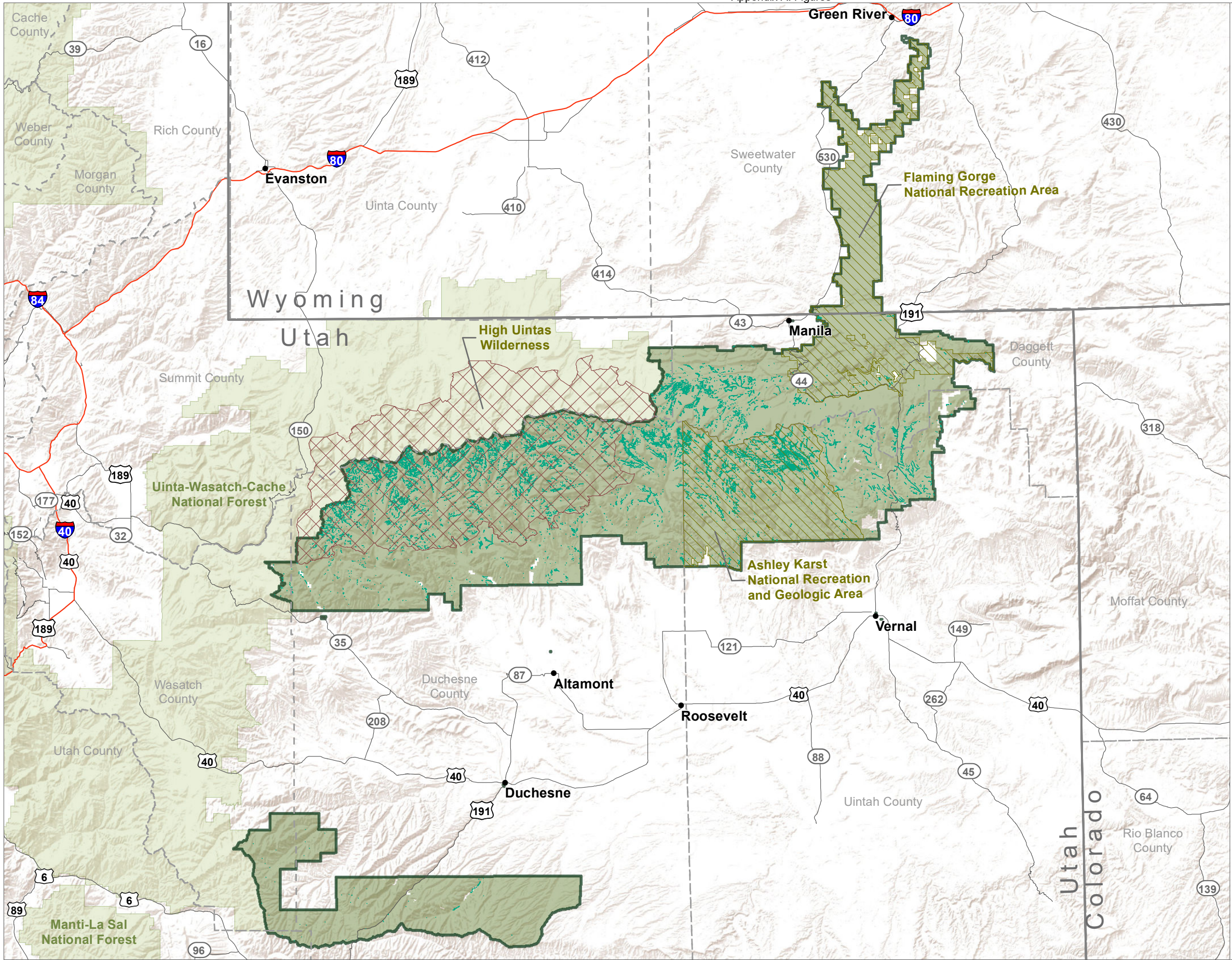
- Utah Division of Water Quality 303(d) listed impaired perennial waters, pending EPA designation
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: EPA GIS 2020, Forest Service GIS 2020  
February 28, 2023  
Ashley\_forestplan\_AE\_hydro\_impairedstreams.pdf  
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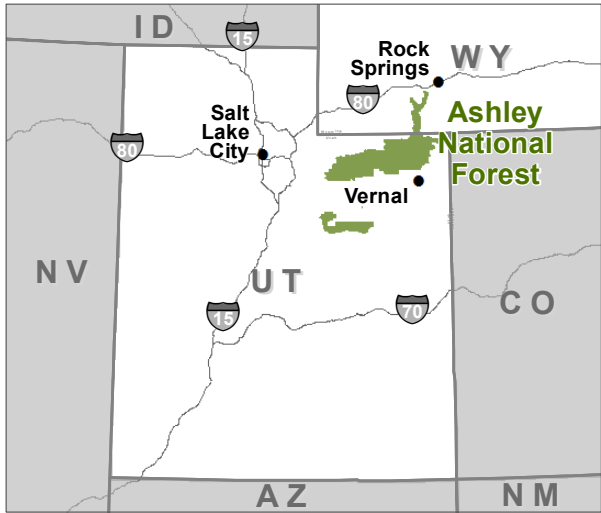




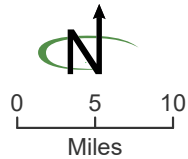


**Figure 3-9  
Emergent Wetlands**

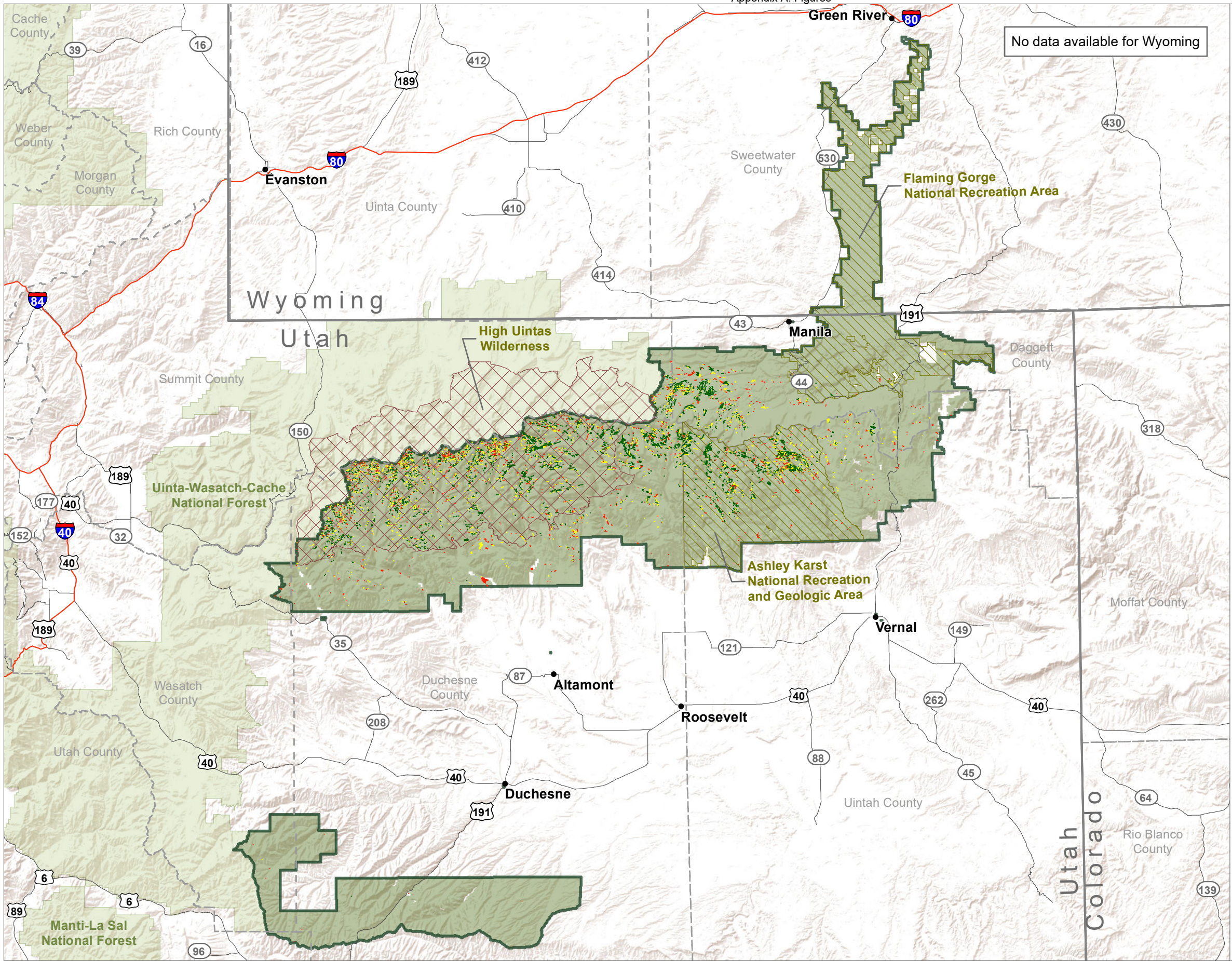
- Emergent wetland
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
November 02, 2022  
Ashley\_forestplan\_AE\_hydro\_emergentwetlands.pdf  
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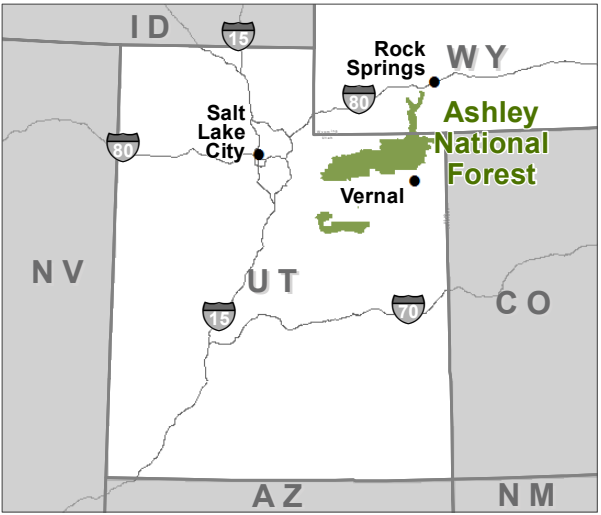




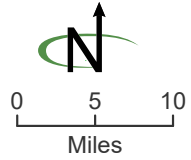


**Figure 3-10  
Potential Fens**

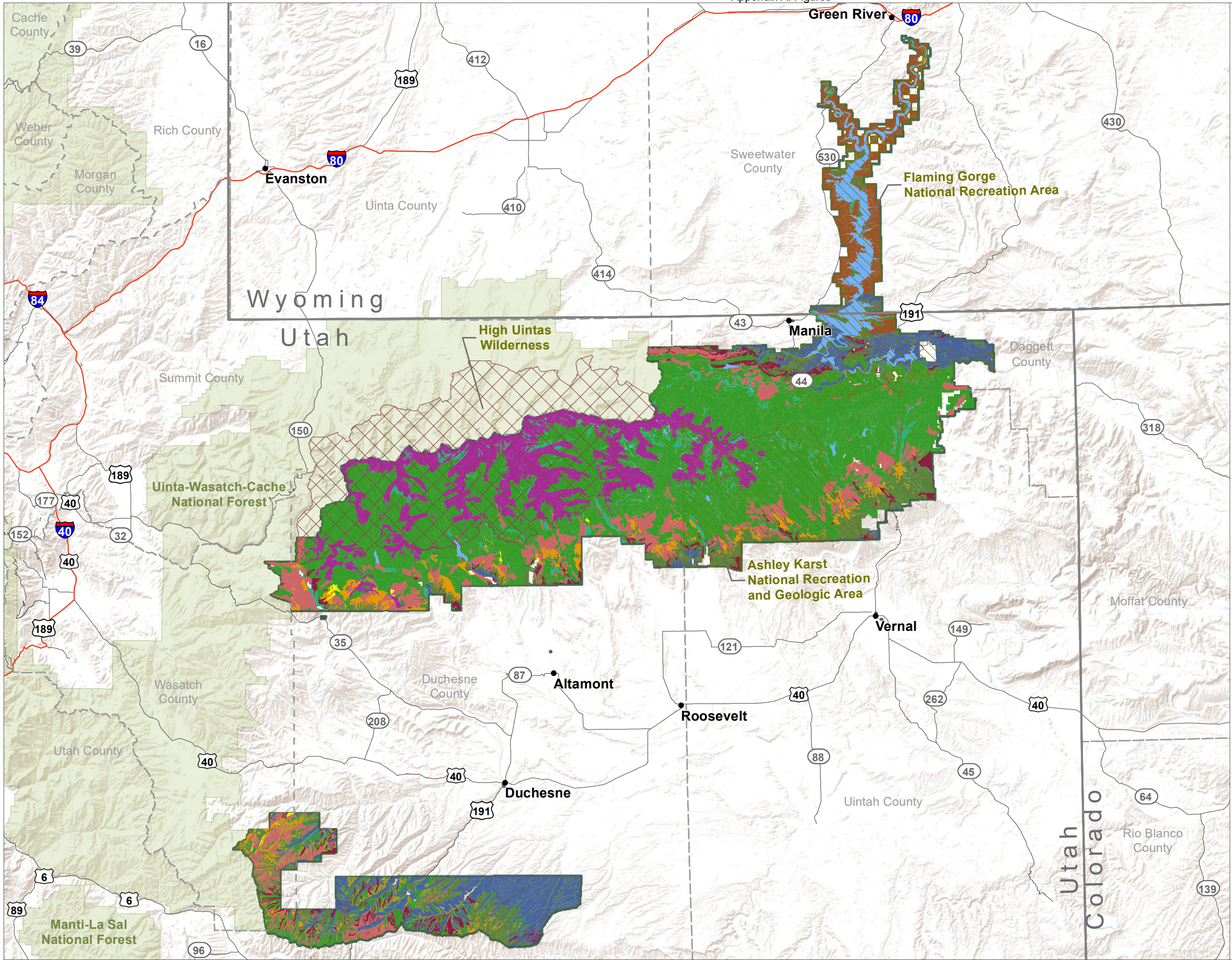
- Likely fen
- Possible fen
- Low confidence fen
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
November 02, 2022  
Ashley\_forestplan\_AE\_hydro\_potentialfens.pdf  
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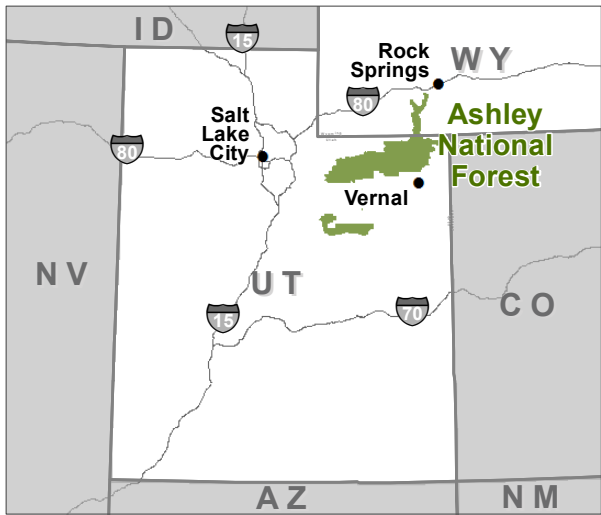




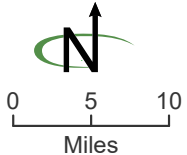


**Figure 3-11**  
**Vegetation Types**

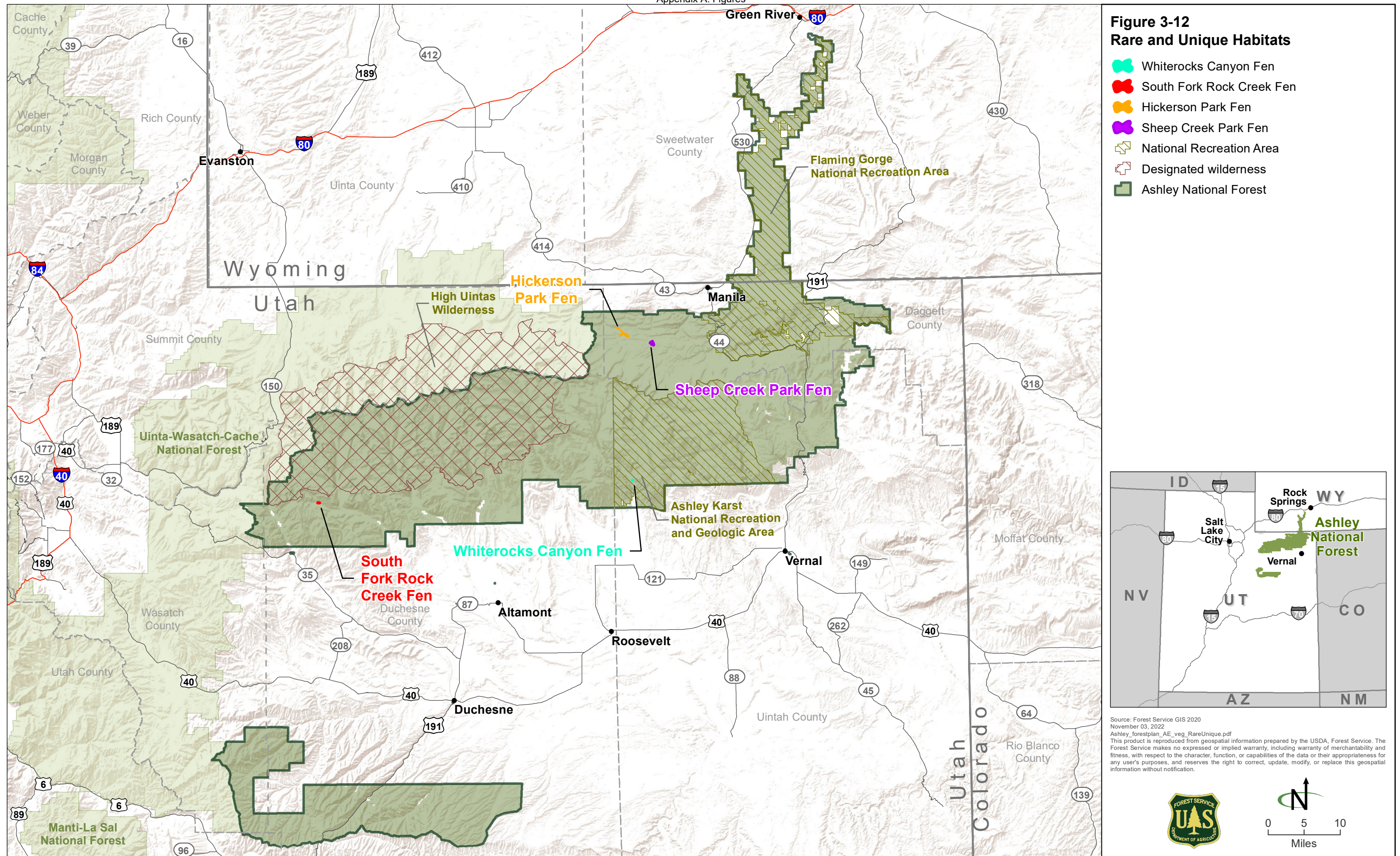
- Alpine
- Coniferous forest
- Deciduous forest
- Desert shrub
- Forb
- Grassland
- Grass/forb
- Mountain brush
- Riparian
- Seral Deciduous forest
- Shrubland
- Water
- Woodland
- National Recreation Area
- Designated wilderness
- Ashley National Forest



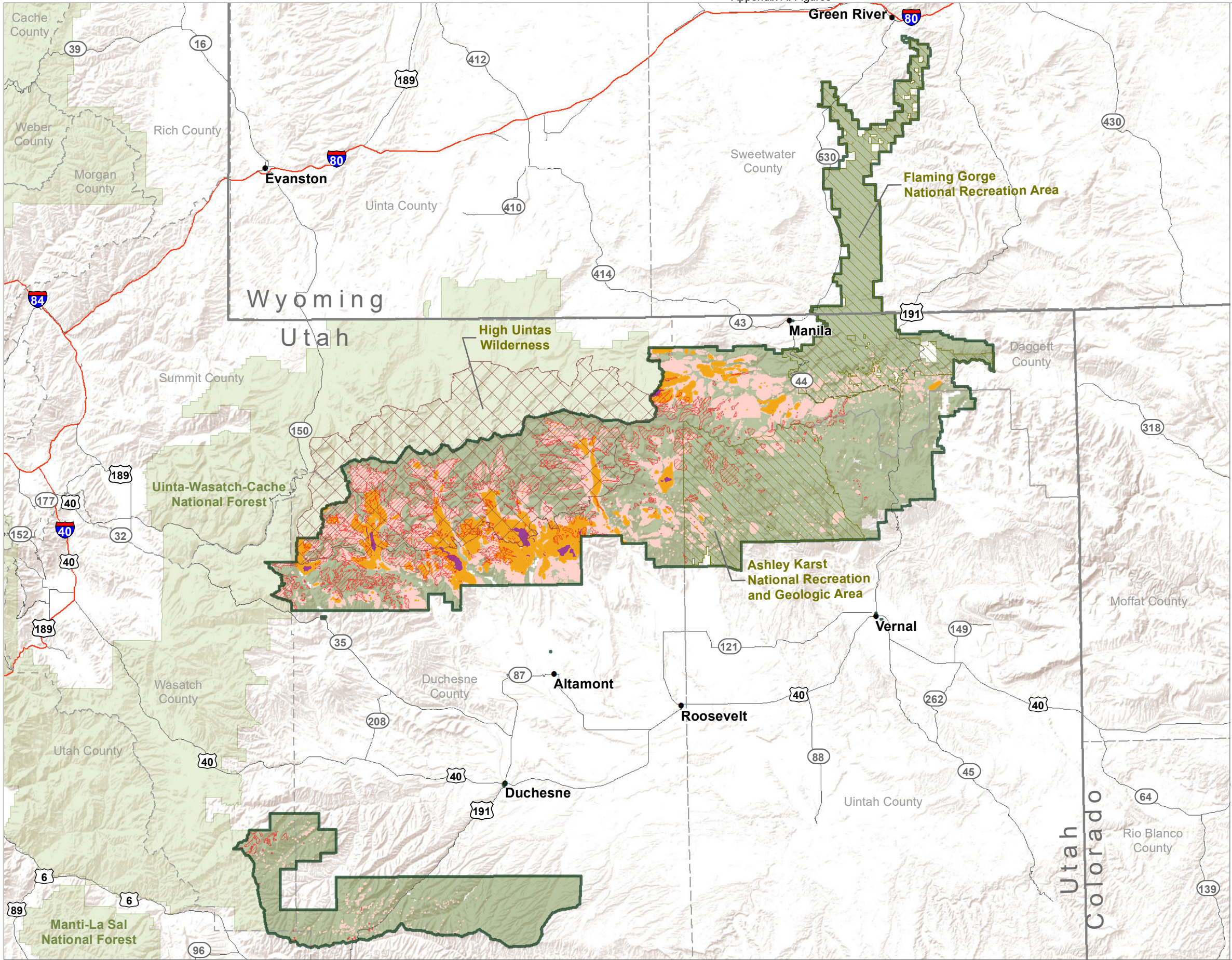
Source: Forest Service GIS 2020  
November 02, 2022  
Ashley\_forestplan\_AE\_veg\_vegtypes.pdf  
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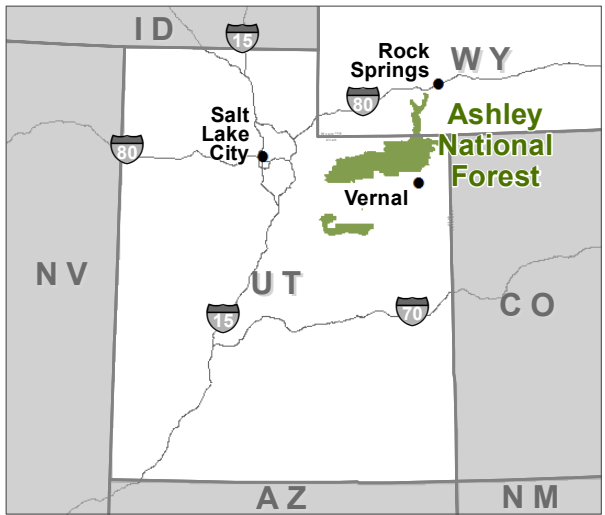
**Figure 3-13**  
**Areas Damaged by Insects**  
Mountain pine beetle cumulative impact  
estimation 1990 to 2015

Intensity

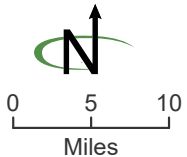
- High
- Moderate
- Low

Spruce beetle 1990 to 2021

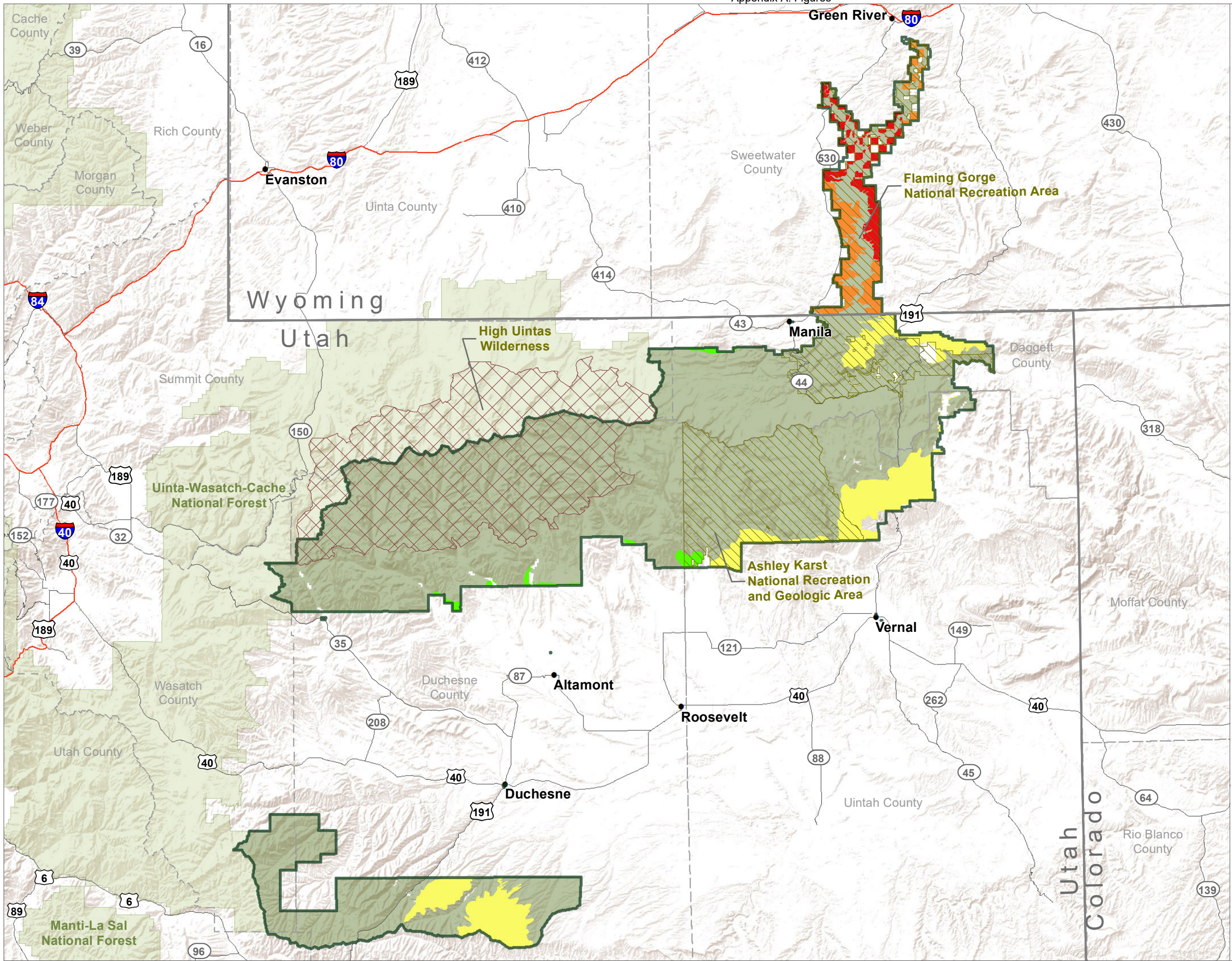
- Area affected by spruce beetle
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2017-2020  
November 02, 2022  
Ashley\_forestplan\_AE\_fire\_insectdamage.pdf  
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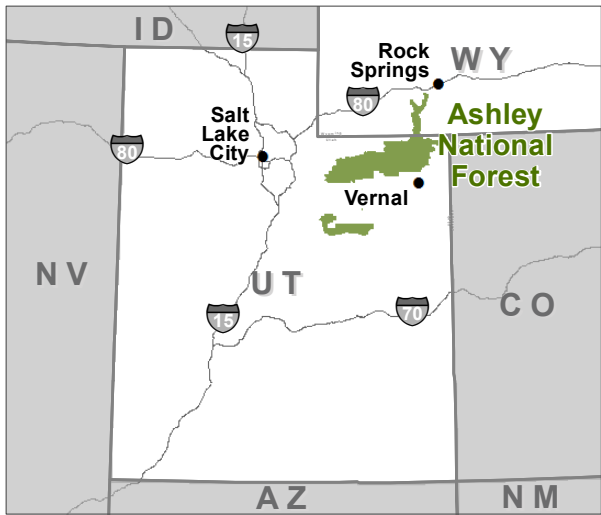




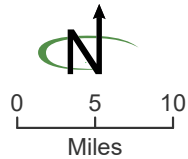


**Figure 3-16**  
**Greater Sage Grouse**  
**Habitat**

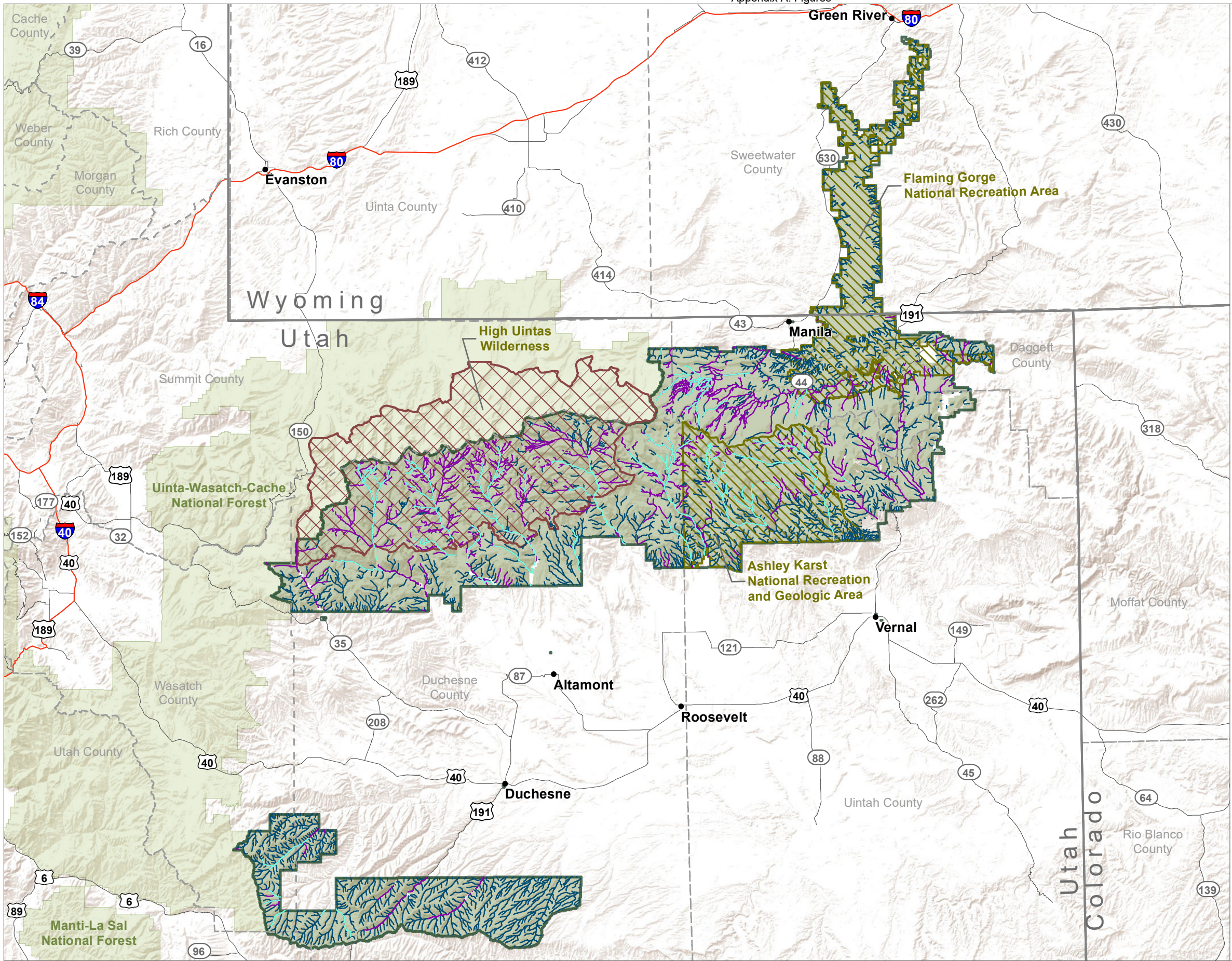
- Utah general habitat
- Utah priority habitat
- Wyoming general habitat
- Wyoming priority habitat
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
November 02, 2022  
Ashley\_forestplan\_AE\_species\_GRSChab.pdf  
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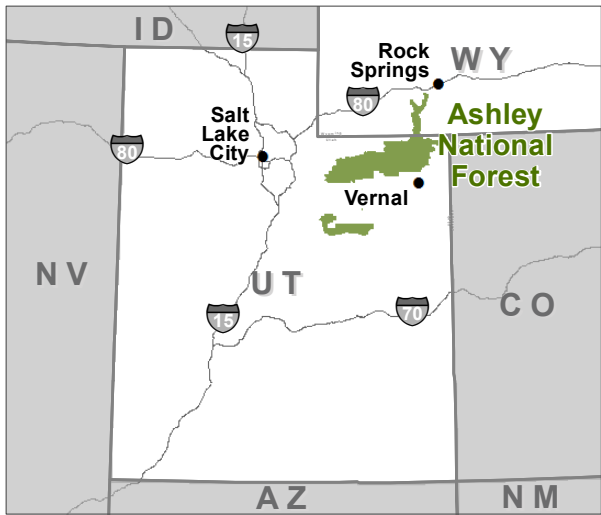




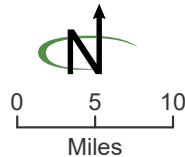


**Figure 3-17**  
**Occupied Colorado River**  
**Cutthroat Trout Streams**

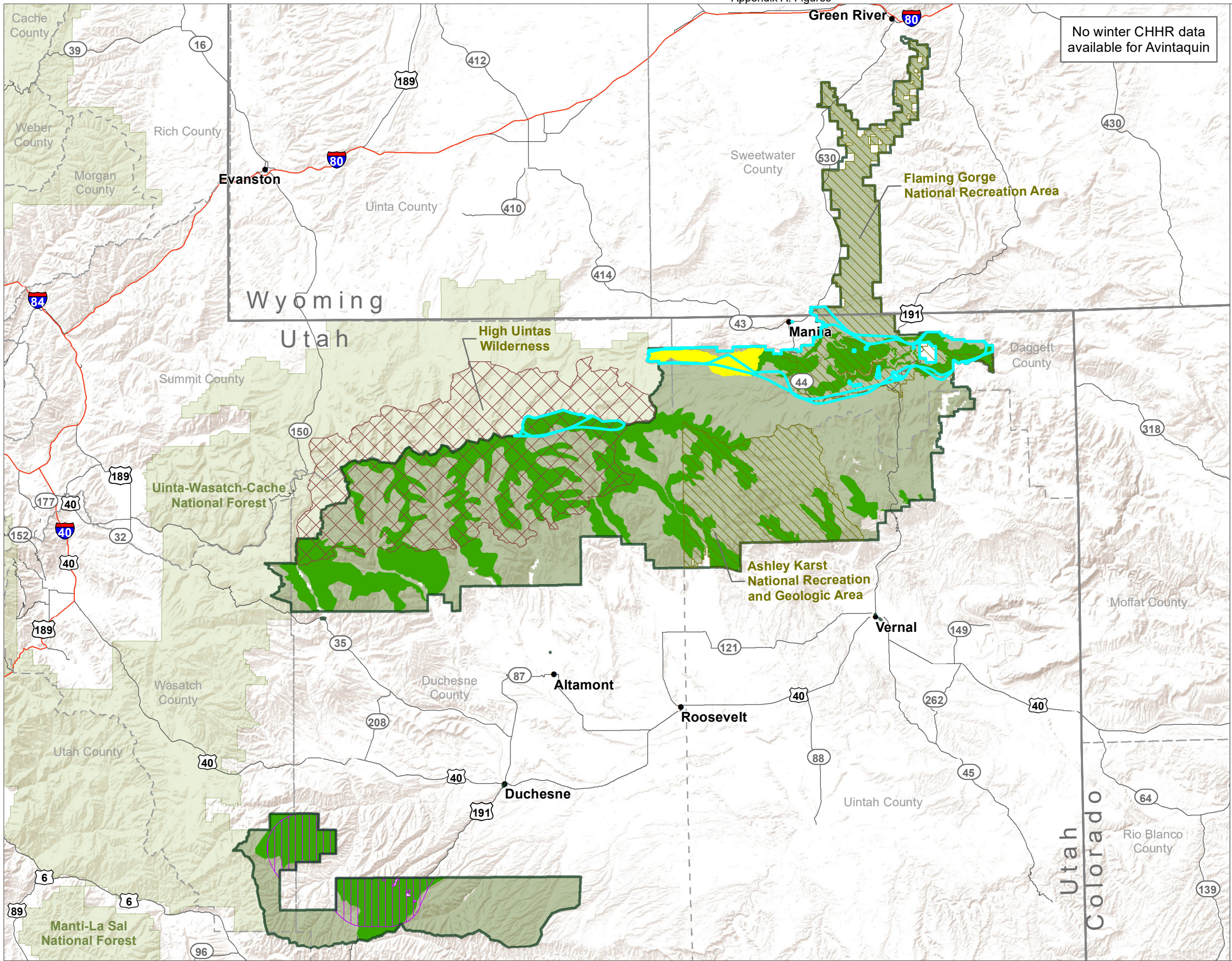
- Current population
- Intermittent streams
- Perennial streams
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
November 02, 2022  
Ashley\_forestplan\_AE\_species\_CRCT.pdf  
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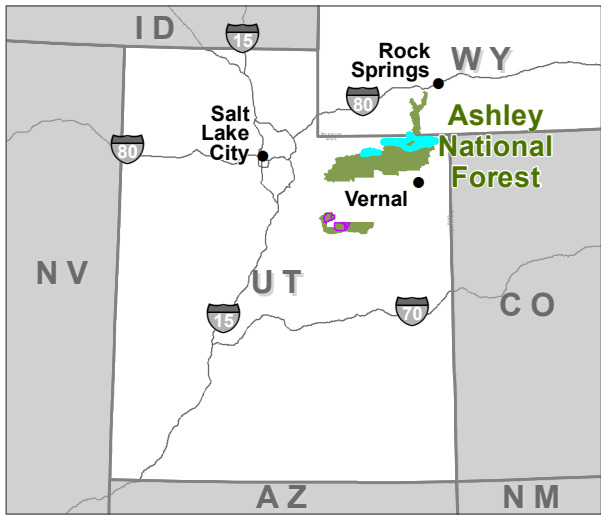




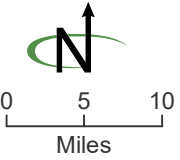


**Figure 3-18**  
**Bighorn Sheep Habitat**

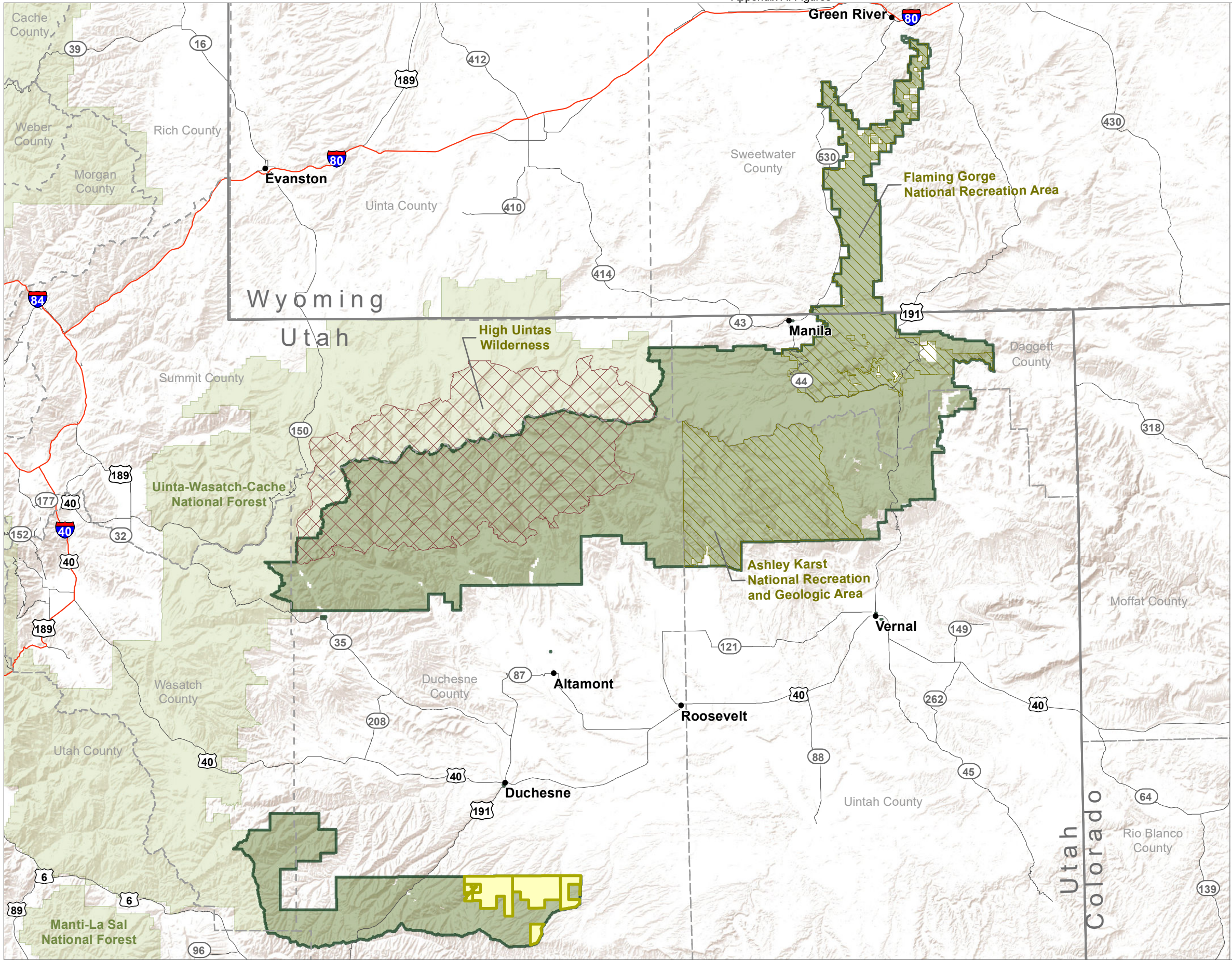
- Spring, fall
- Year-long
- Core Herd Home Ranges (CHHR)
  - Avintaquin summer CHHR
  - Uintas summer CHHR
  - Uintas winter CHHR
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
February 28, 2023  
Ashley\_forestplan\_AE\_species\_bighornsheep.pdf  
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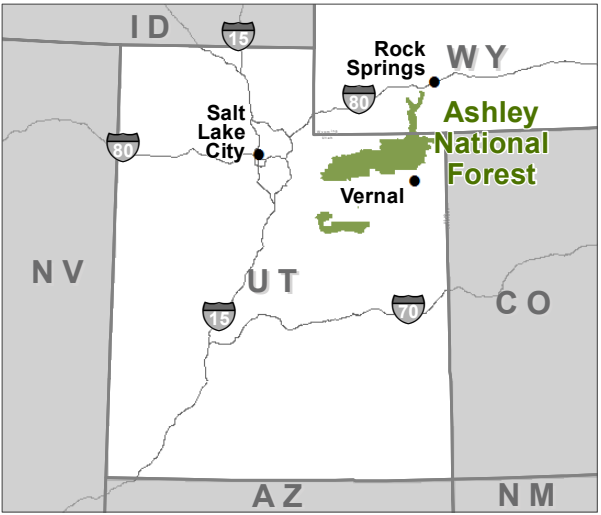




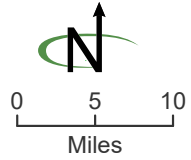


**Figure 3-19**  
**Oil and Gas Leases**

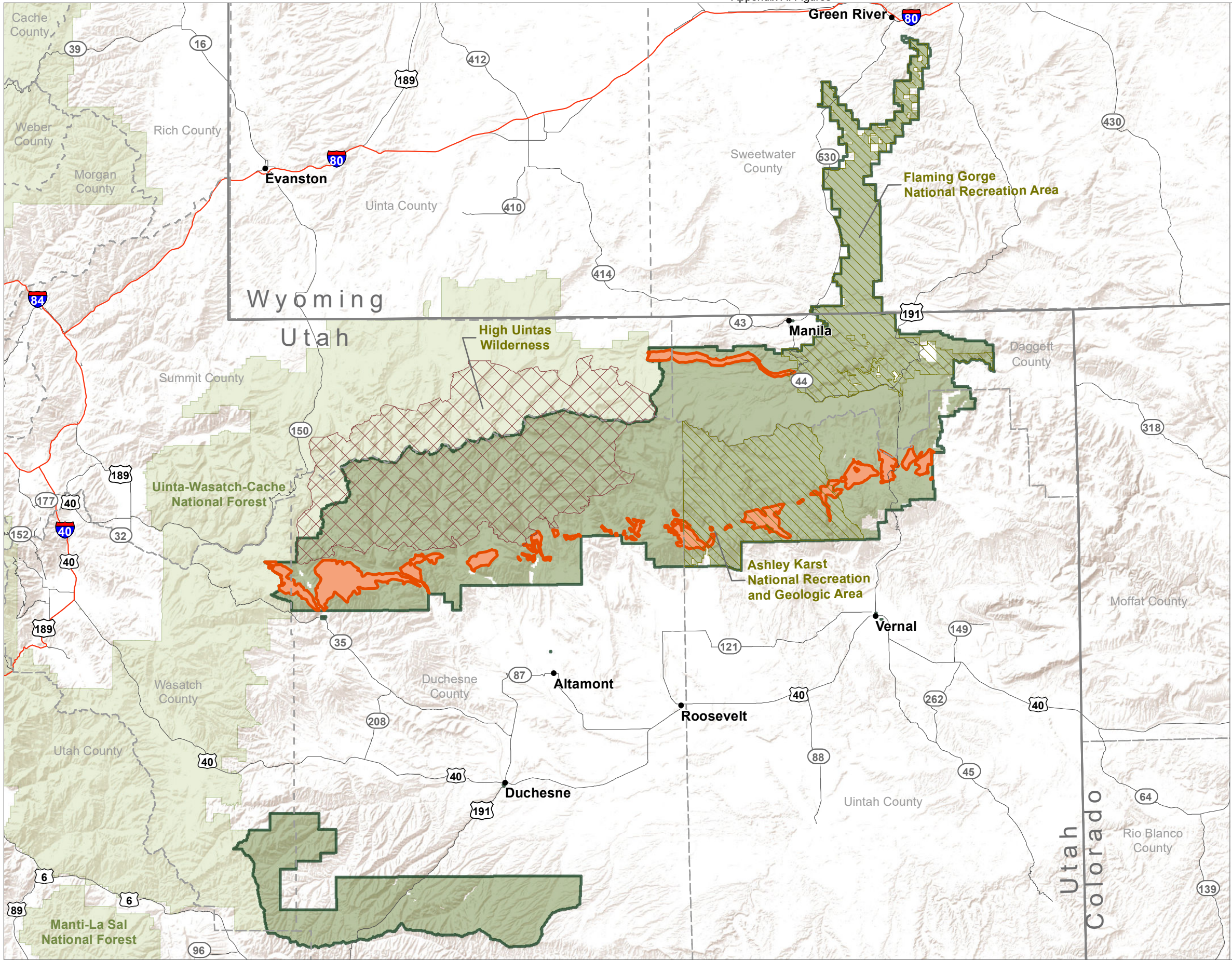
- Oil and gas lease
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
November 02, 2022  
Ashley\_forestplan\_AE\_minerals\_OGLeases.pdf  
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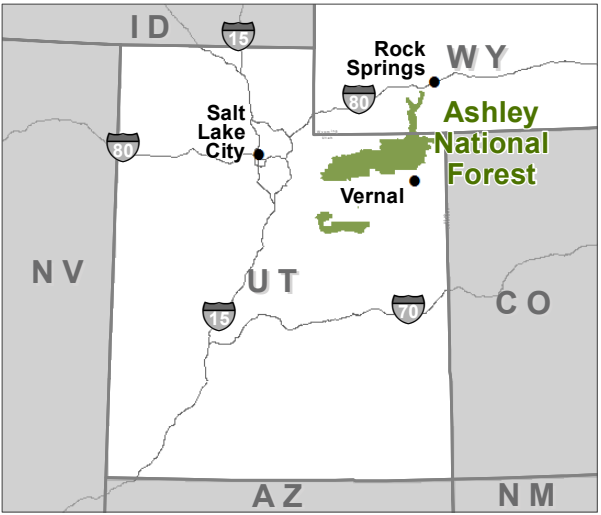




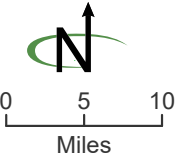


**Figure 3-20  
Karst Areas**

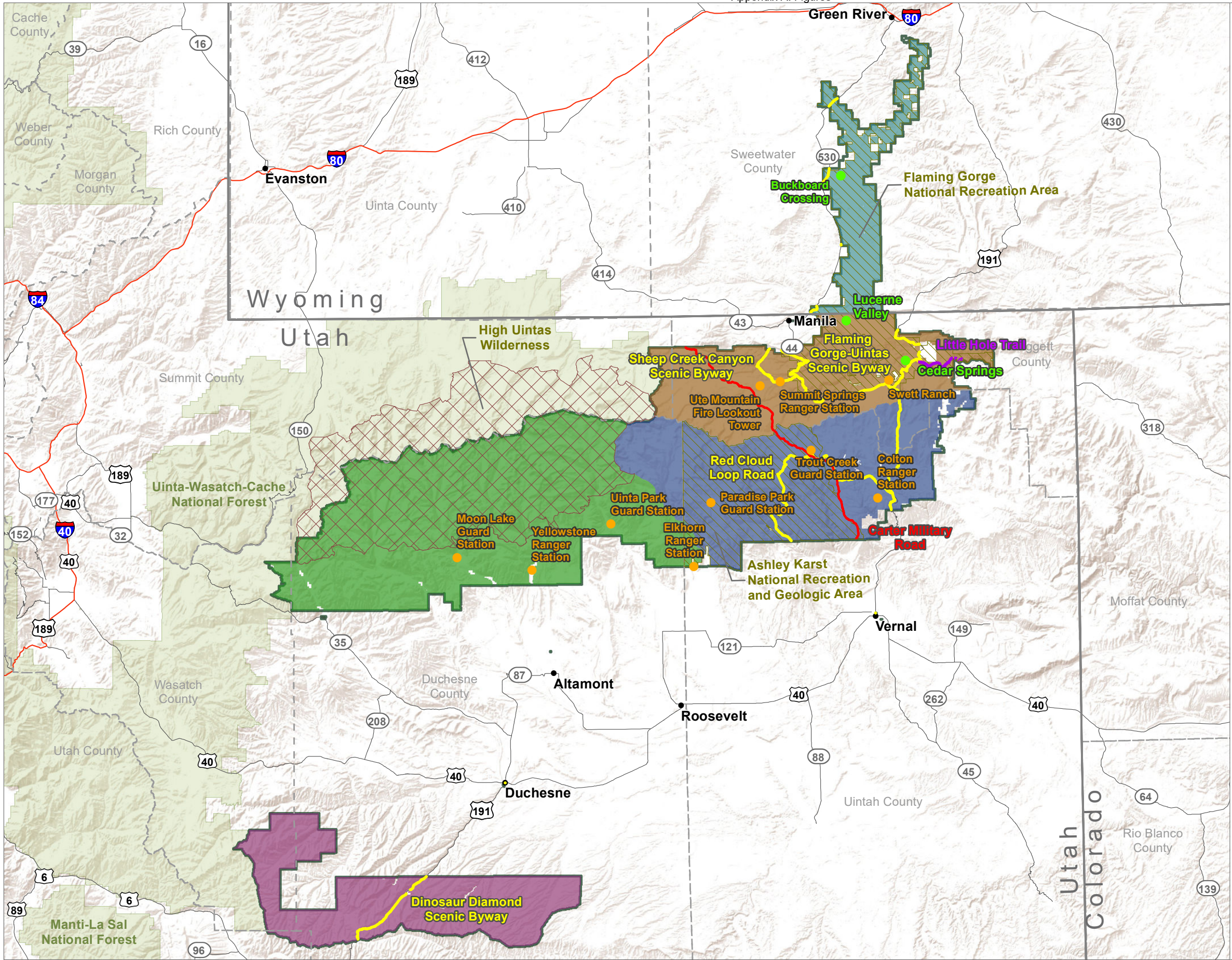
- Karst areas
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
November 02, 2022  
Ashley\_forestplan\_AE\_minerals\_karst.pdf  
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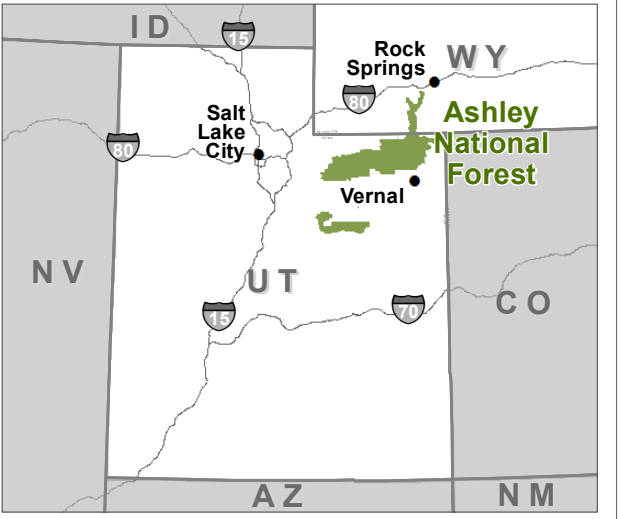




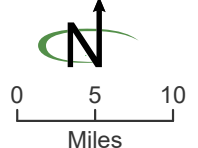


**Figure 3-21**  
**Scenic Byways, Historic Areas, National Recreation Trails, and Scenic Subareas**

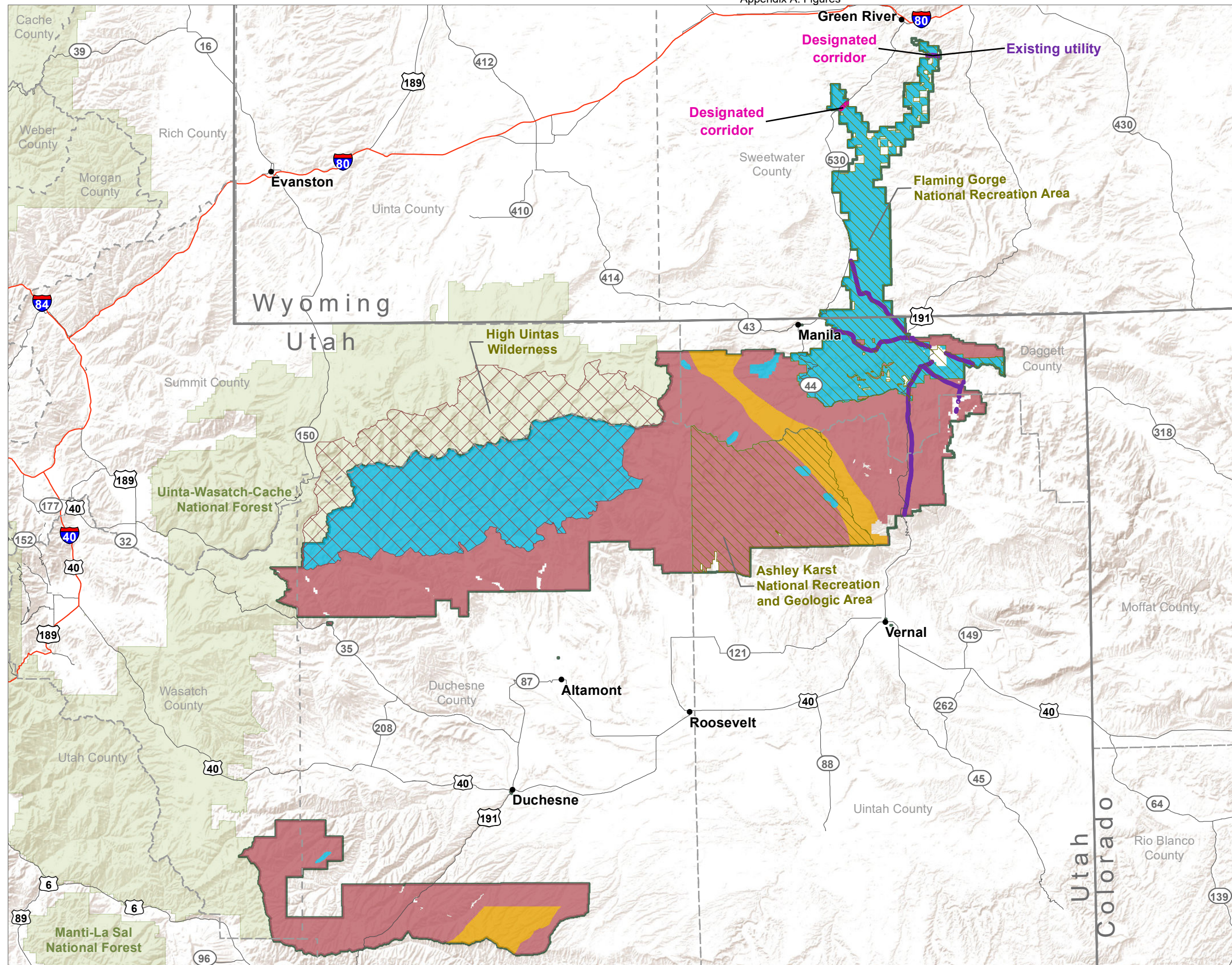
- Scenic byway or scenic backway
- Key water access points
- Historic management areas
- Carter Military Road
- Little Hole National Recreation Trail
- North Duchesne/Roosevelt Ranger District
- South Duchesne/Roosevelt Ranger District
- North Flaming Gorge Ranger District
- South Flaming Gorge Ranger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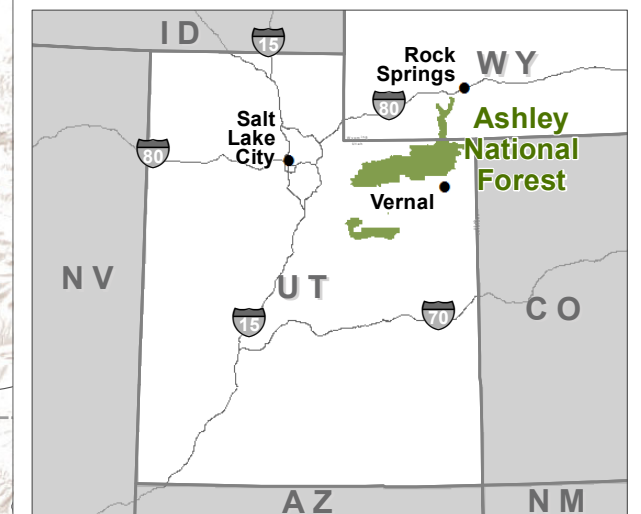




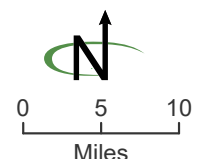


**Figure 3-22**  
**Areas Open and Closed to Energy**  
**Corridor Rights of Way (ROWs) - as**  
**shown in the 1986 Forest Plan**

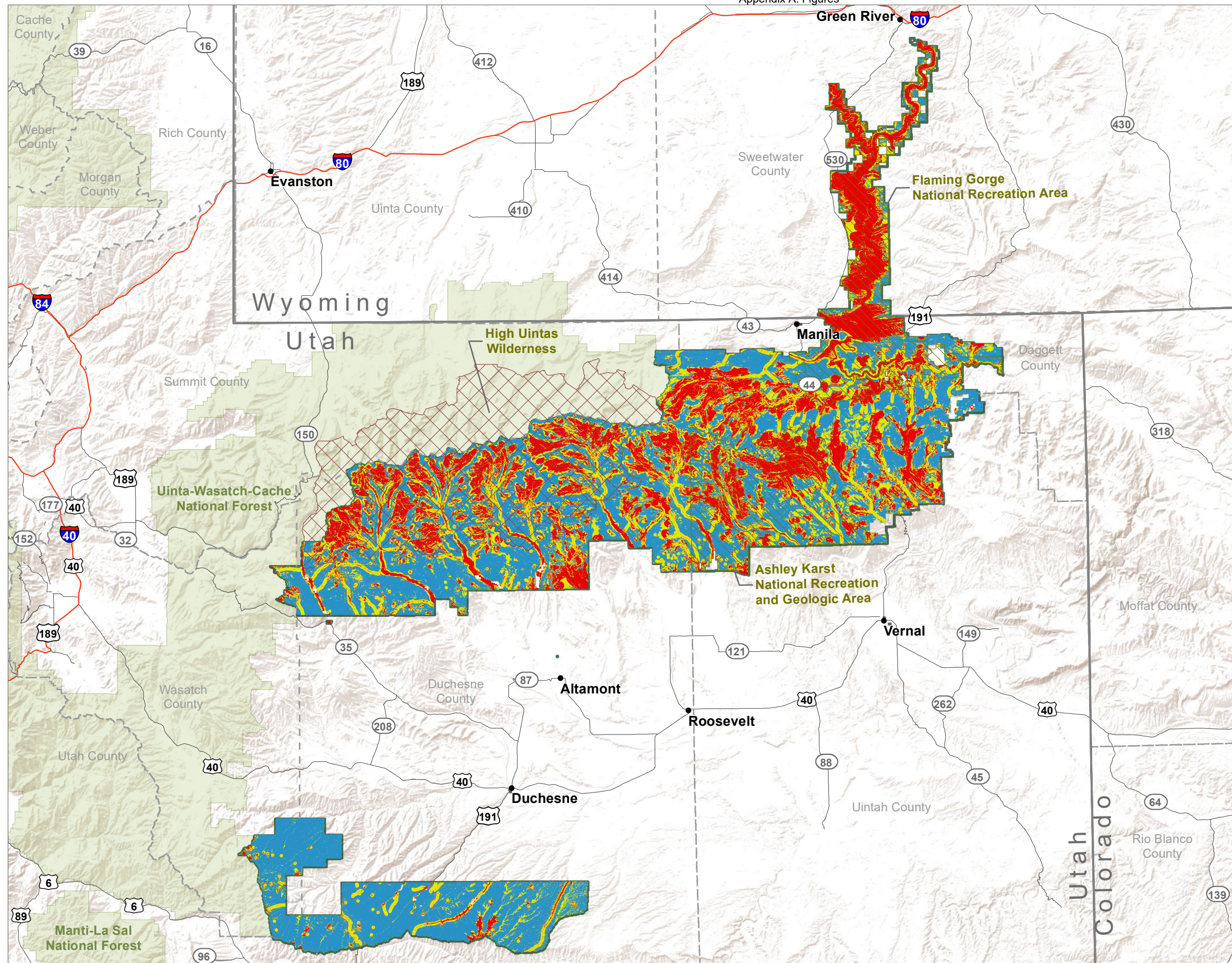
- Avoidance area
- Designated corridor
- Exclusion area
- Existing utility
- Window
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
 November 02, 2022  
 Ashley\_forestplan\_AE\_minerals\_ROWs.pdf  
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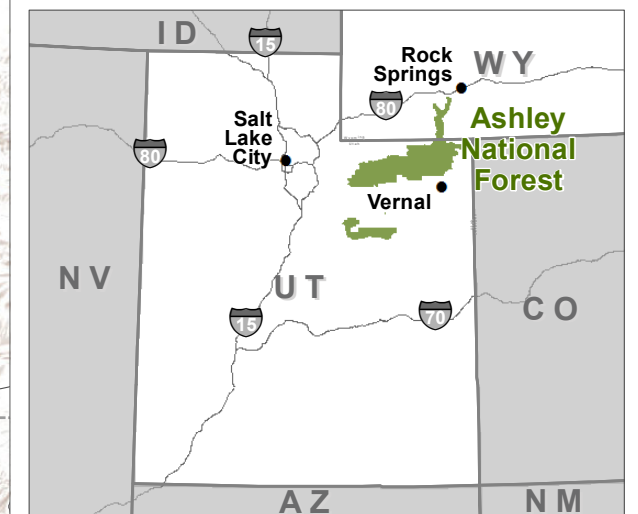




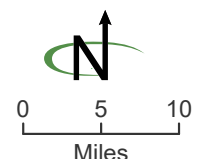


**Figure 3-23**  
**Cultural Resource Sensitivity**

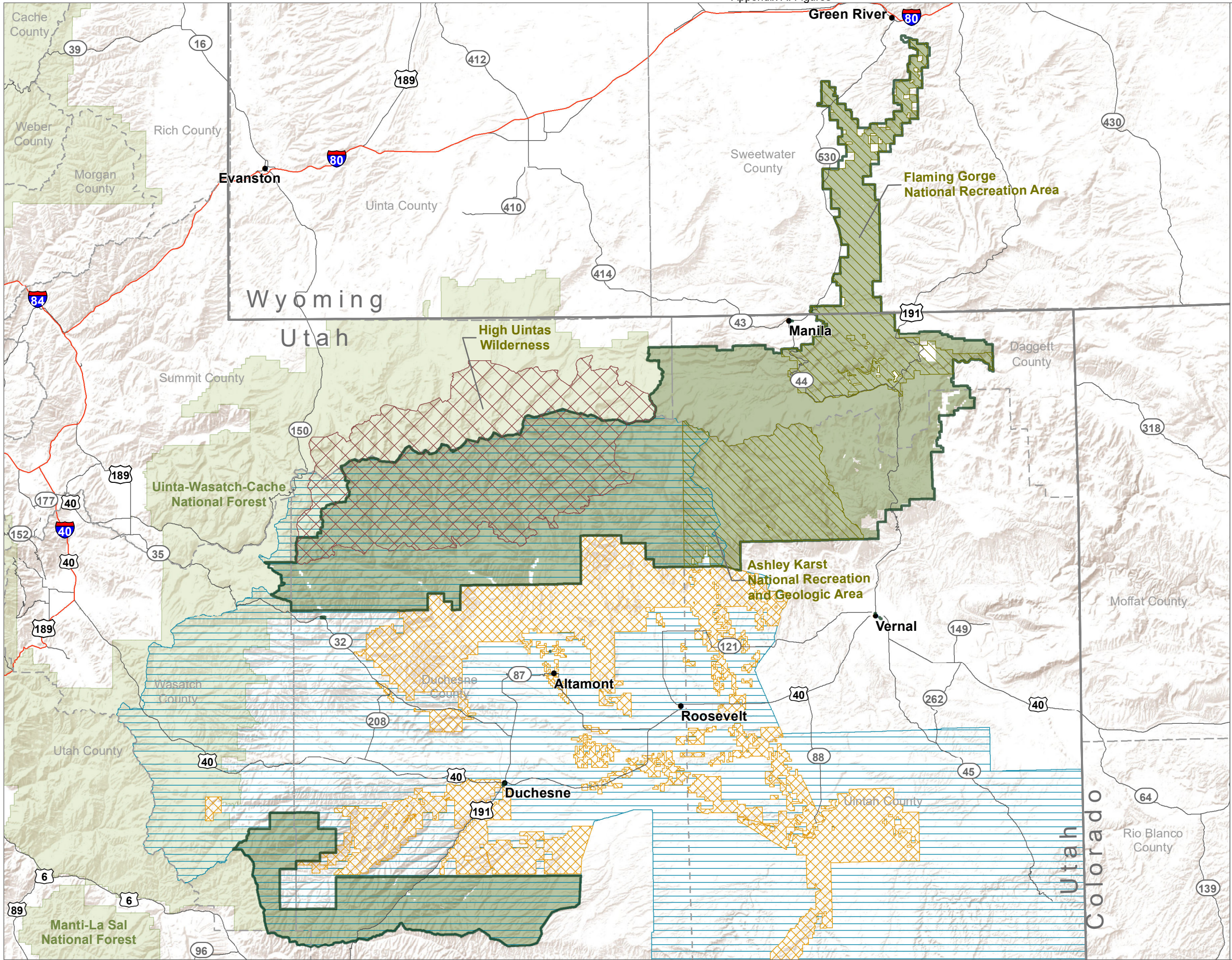
- Low
- Moderate
- High
- National Recreation Area
- Designated wilderness
- Ashley National Forest



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Ashley\_forestplan\_AE\_cultural\_culturalresourcesensitivity.pdf  
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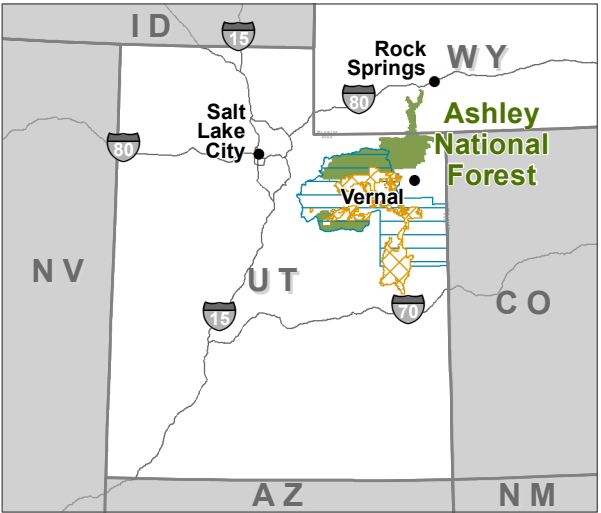




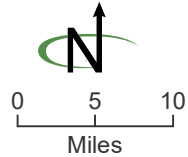


**Figure 3-24**  
**Ute Indian Tribe Lands**

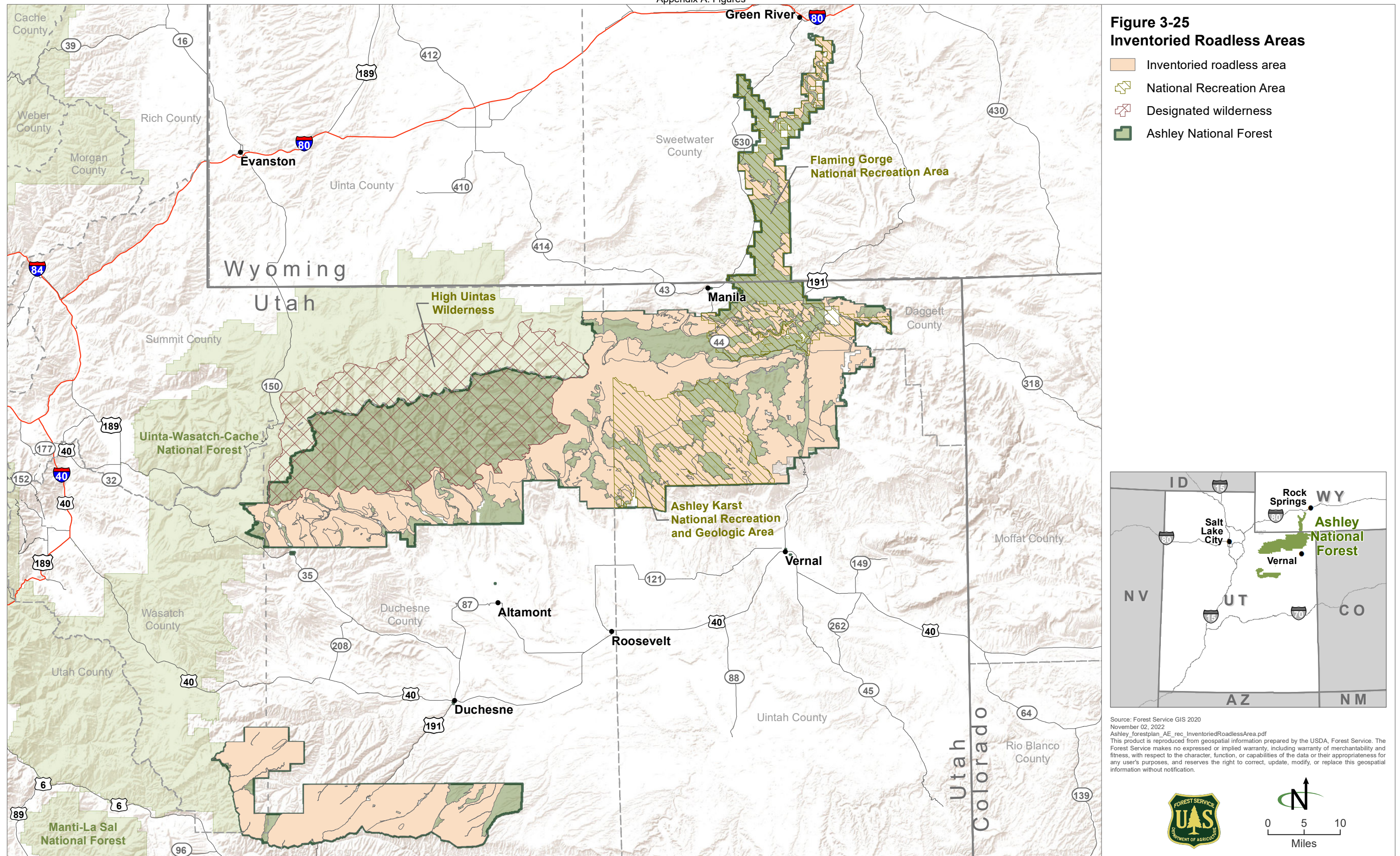
- Ute Tribal Trust Lands of the Uintah and Ouray Reservation
- Historic Boundary of the Uintah and Ouray Reservation
- National Recreation Area
- Designated wilderness
- Ashley National Forest



Source: Forest Service GIS 2020  
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Ashley\_forestplan\_AE\_UteTriballands.pdf  
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