

Appendix 1: Maps

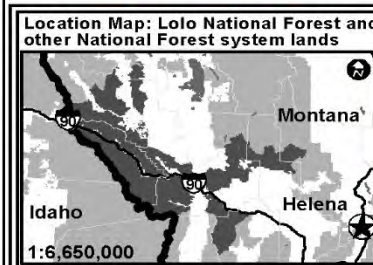
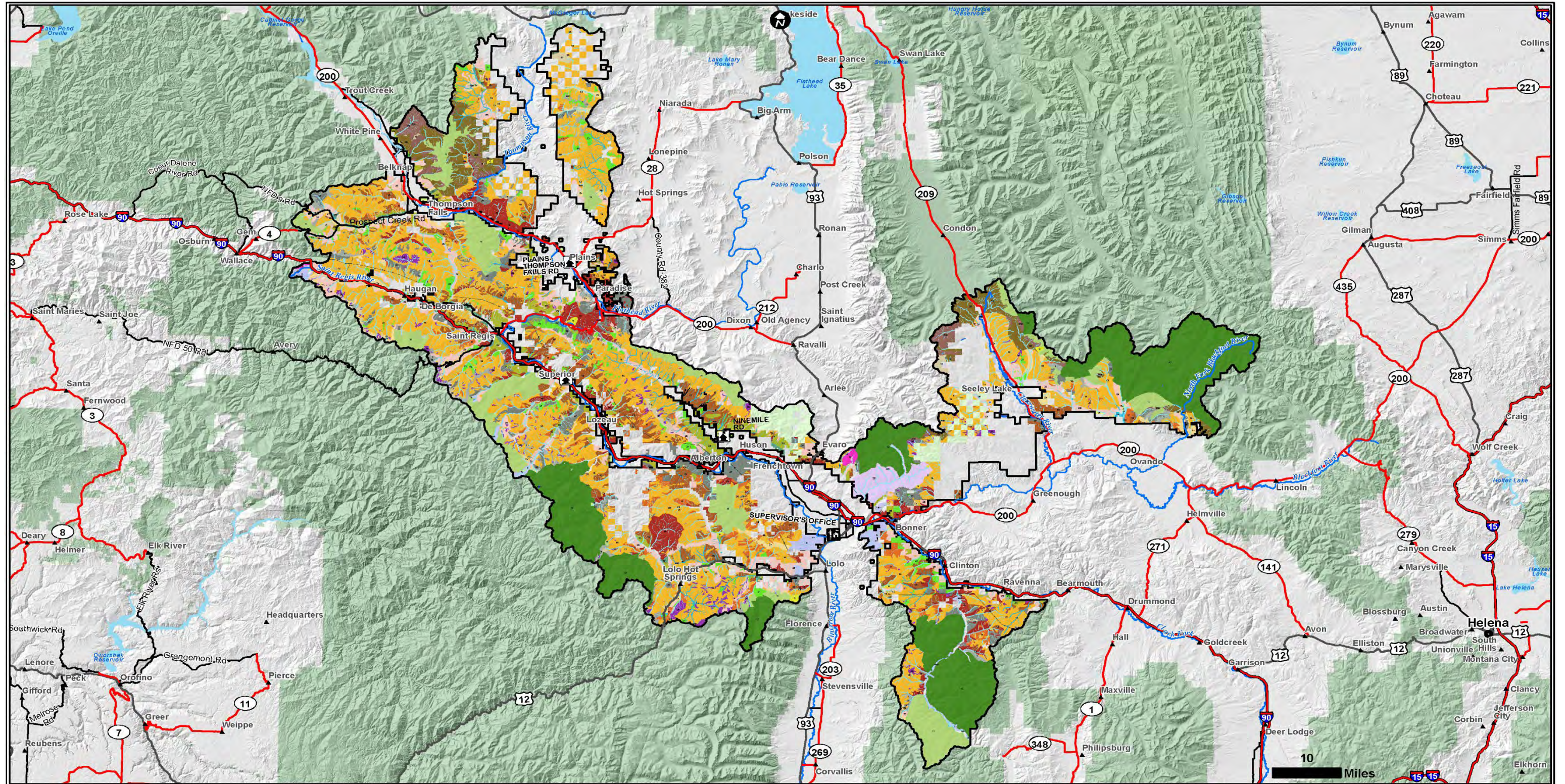
List of Figures

Figure Number	Description
A1-01	Management areas
A1-02	Geographic Areas
A1-03	Watersheds
A1-04	Watershed Condition Category
A1-05	Municipal Water Supply
A1-06	Montana DEQ Impaired streams
A1-07	Map of precipitation
A1-08	Strategic Fire Management Zones
A1-09	Fire Frequency Classes derived from LANDFIRE Regime Groups
A1-10	Social and Economic Analysis Area
A1-11	Grizzly Bear management and recovery zones
A1-12	Lynx analysis units and lynx habitat
A1-13	Developed recreation sites
A1-14	Wilderness and Previously Recommended Wilderness
A1-15	Existing Designated Areas
A1-16	Inventoried Roadless Areas
A1-17	Existing Timber Suitability
A1-18	Eligible and Suitable Wild and Scenic Rivers
A1-19	Existing Summer Recreation Opportunity Spectrum Classes
A1-20	Draft Scenic Classes
A1-21	Existing Scenic Attractiveness
A1-22	Existing Scenic Integrity
A1-23	Existing Concern Level Travelways and Concern Level Points
A1-24	Draft Landscape Visibility
A1-25	Range Management Units
A1-26	Region 1 Broad-level Potential Vegetation Groupings
A1-27	Cover Type across the Forest
A1-28	Size Class across the Forest
A1-29	Density Class across the Forest
A1-30	Monarch butterfly habitat
A1-31	Basins closed to new water rights
A1-32	Existing Winter Recreation Opportunity Spectrum Classes

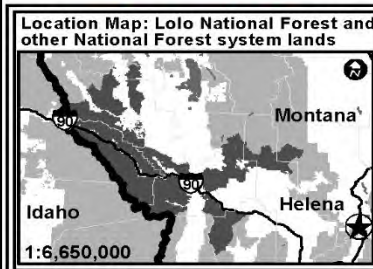
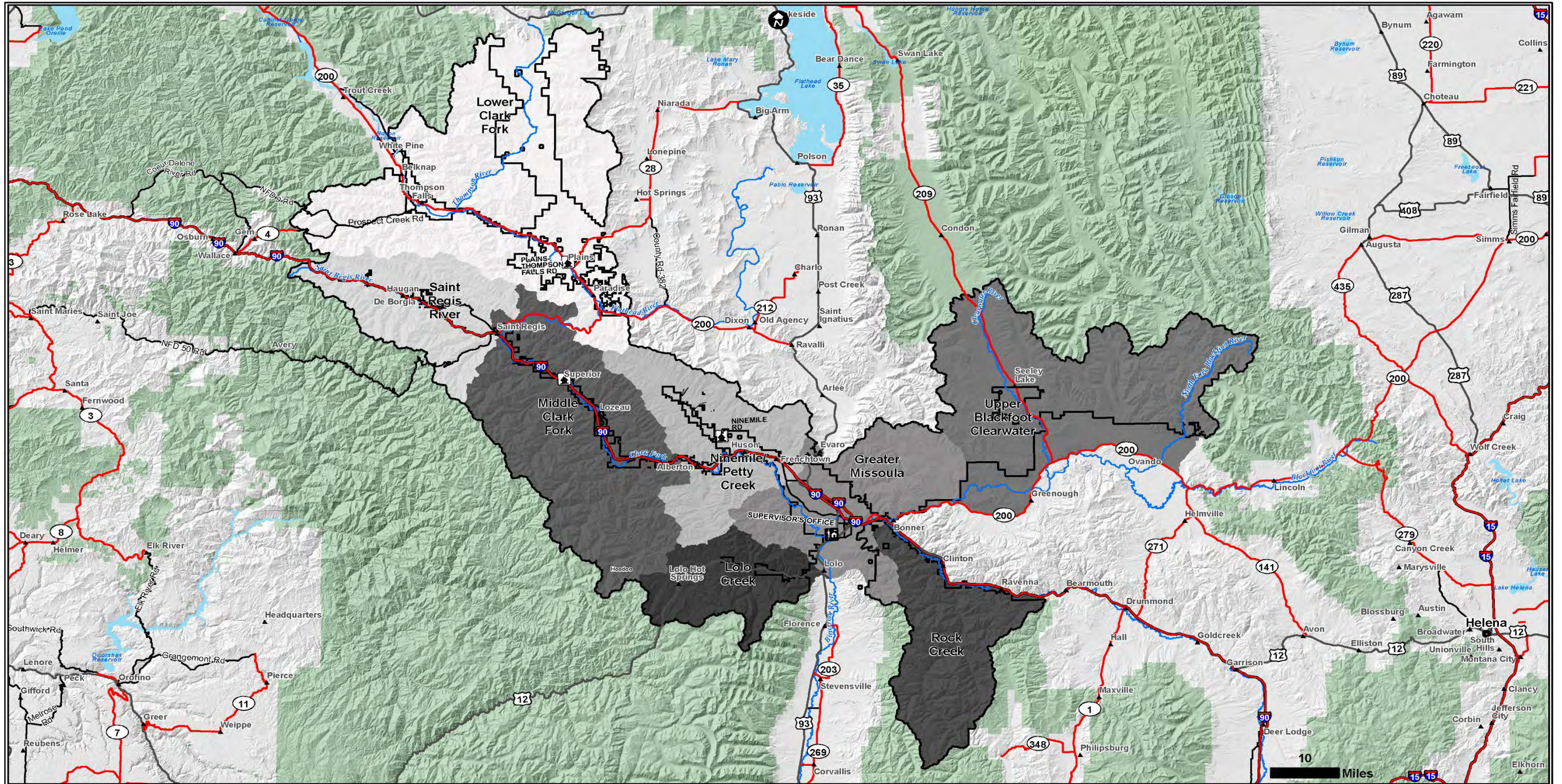
Data Disclaimer: The USDA Forest Service makes no warranty, expressed or implied, including the warranties of merchantability and fitness for a particular purpose, nor assumes any legal liability or responsibility for the accuracy, reliability, completeness, or utility of these geospatial data, or for the improper or incorrect use of these geospatial data. These geospatial data and related maps or graphics are not legal documents and are not intended to be used as such. The data and maps may not be used to determine title, ownership, legal descriptions or boundaries, legal jurisdiction, or restrictions that may be in place on either public or private land. Natural hazards may or may not be depicted on the data and maps, and land users should exercise due caution. The data are dynamic and may change over time. The user is responsible to verify the limitations of the geospatial data and to use the data accordingly.

Map Disclaimer: These maps are intended to depict physical features as they generally appear on the ground and may not be used to determine title, ownership, legal boundaries, legal jurisdiction, including jurisdiction over roads or trails, or access restrictions that may be in place on either public or private land. Obtain permission before entering private lands and check with appropriate government offices for restrictions that may apply to public lands. Lands, roads, and trails within the boundaries of the National Forest may be subject to restrictions on motor vehicle use. Obtain a Motor Vehicle Use Map or inquire at the local Forest Service office for motor vehicle access information. Natural hazards may or may not be depicted on the map, and land users should exercise due caution. This map may not be suitable for navigation.

Maps released: May 18, 2023



Lolo National Forest Land Management Plan Assessment-Management Areas						Other map features	
1-Non Forest - Non Commercial Forest	6-Research Natural Area & Botanical Areas	12-Wilderness or Proposed Wilderness	18-Big Game Winter Range and Timber	22-Timber, Big Game Winter Range, and Retention VQO	26-Critical Elk Summer Range	Major Cities	State Highway
2-Administrative Site	7-Campground and Picnic	13-Riparian	19-Big Game Winter Range No Road Construction	23-Timber, Big Game Winter Range, and Partial Retention VQO	27-Uneconomical	Towns	US Highway
3-Historic and Cultural Site	8-Ski Area	14-Riparian with Grazing	20-Grizzly Bear Habitat and Timber	24-Timber and Retention VQO	28-Rattlesnake National Recreation Area	Interstate Highway	Lolo National Forest Admin Boundary
4-Mineral Extraction and Processing	9-Concentrated Public Use	15-Livestock Grazing	20a-Grizzly Bear Habitat	25-Timber and Partial Retention VQO	AFD-Aerial Fire Depot	Lolo National Forest Admin Boundary	Other National Forest Administrative Areas
5-Transportation and Utility Corridor	10-Small Unroaded Lands	16-Timber Management	21-Old Growth	Water	Forest Service	Forest Service	Non-Forest Service
	11-Large Roadless Blocks	17-Timber Management on Steep Slopes			Stream/River	Stream/River	Lake/Pond

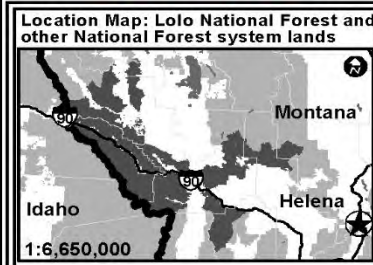
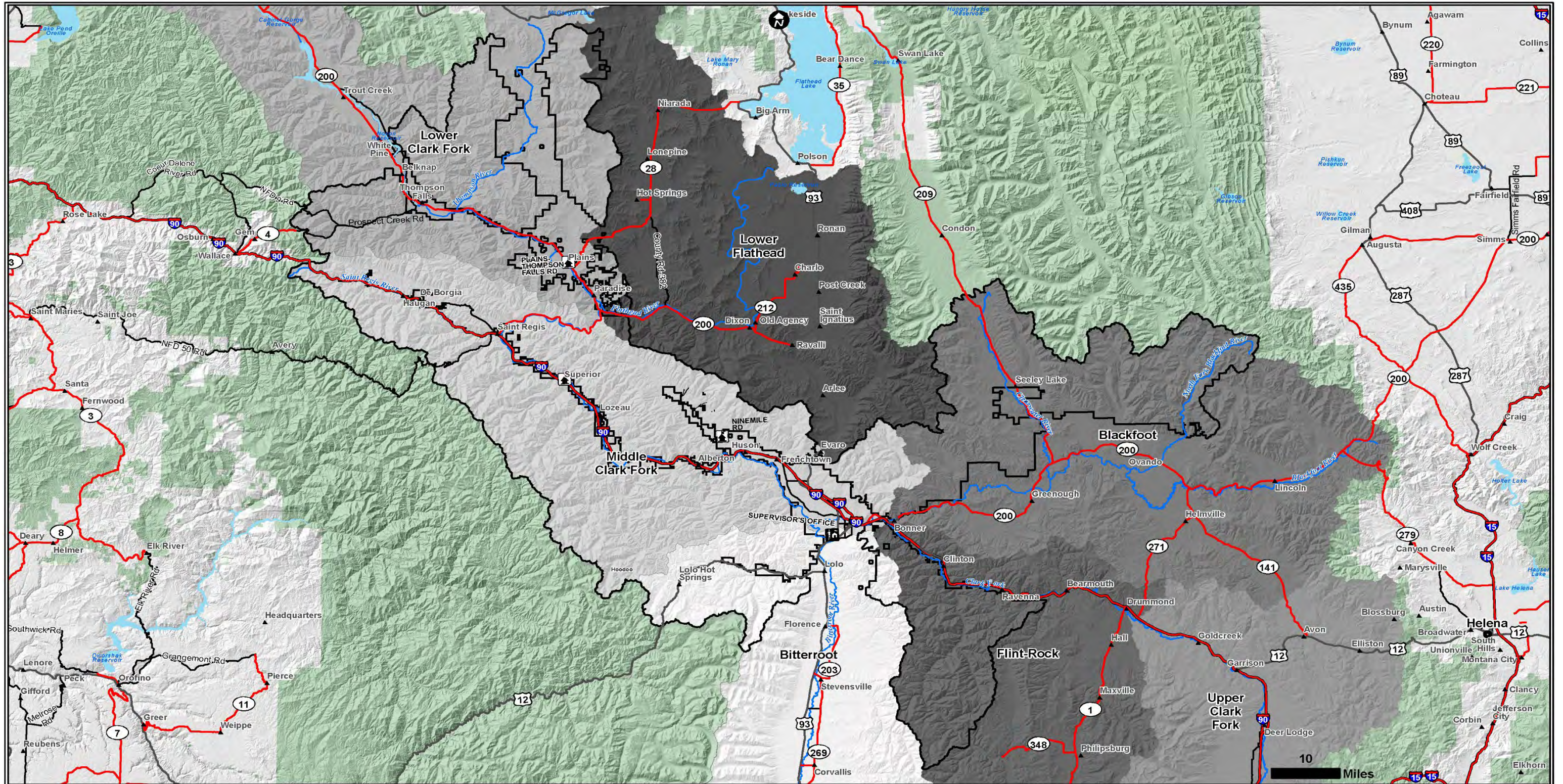


Lolo National Forest Land Management Plan Assessment-Geographic Area

Greater Missoula	Lolo Creek	Lower Clark Fork	Middle Clark Fork	Ninemile/ Petty Creek	Rock Creek	Saint Regis River	Upper Blackfoot Clearwater
------------------	------------	------------------	-------------------	-----------------------	------------	-------------------	----------------------------

Other map features

Major Cities	Towns	Interstate Highway	State Highway	US Highway
Lolo National Forest Admin Boundary	Other National Forest Administrative Areas	Stream/River	Lake/Pond	

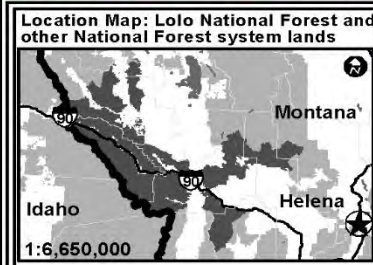
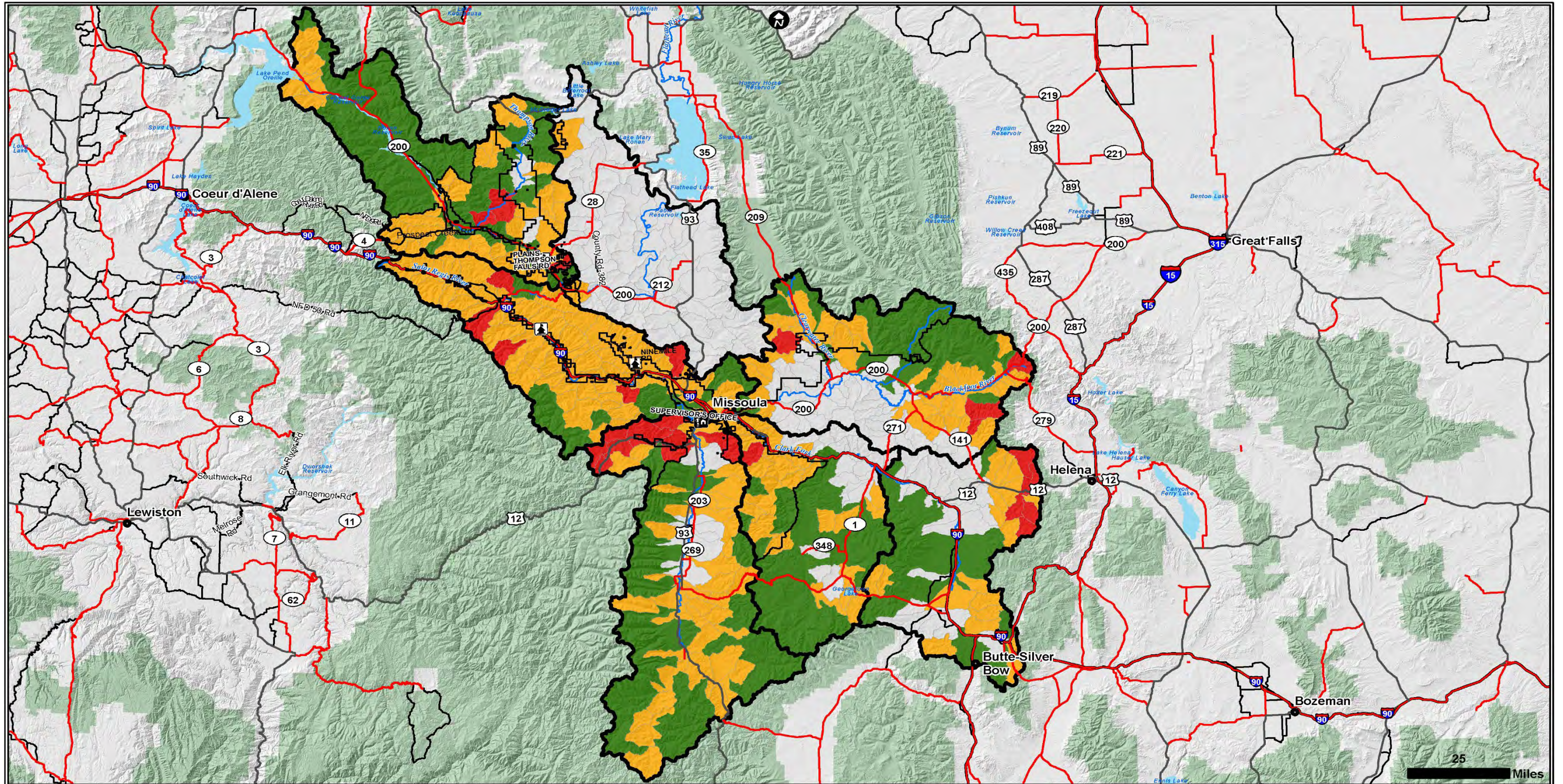


Lolo National Forest Land Management Plan Assessment-Hydrologic Unit Codes (HUC 8) subbasin level

--	--	--	--	--	--	--

Other map features

Figure 1-04: Watershed Condition Class [\(back to list of figures\)](#)



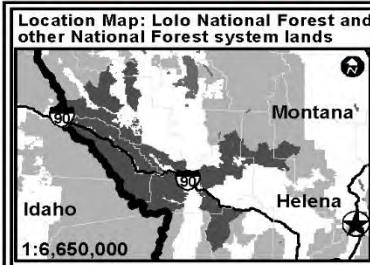
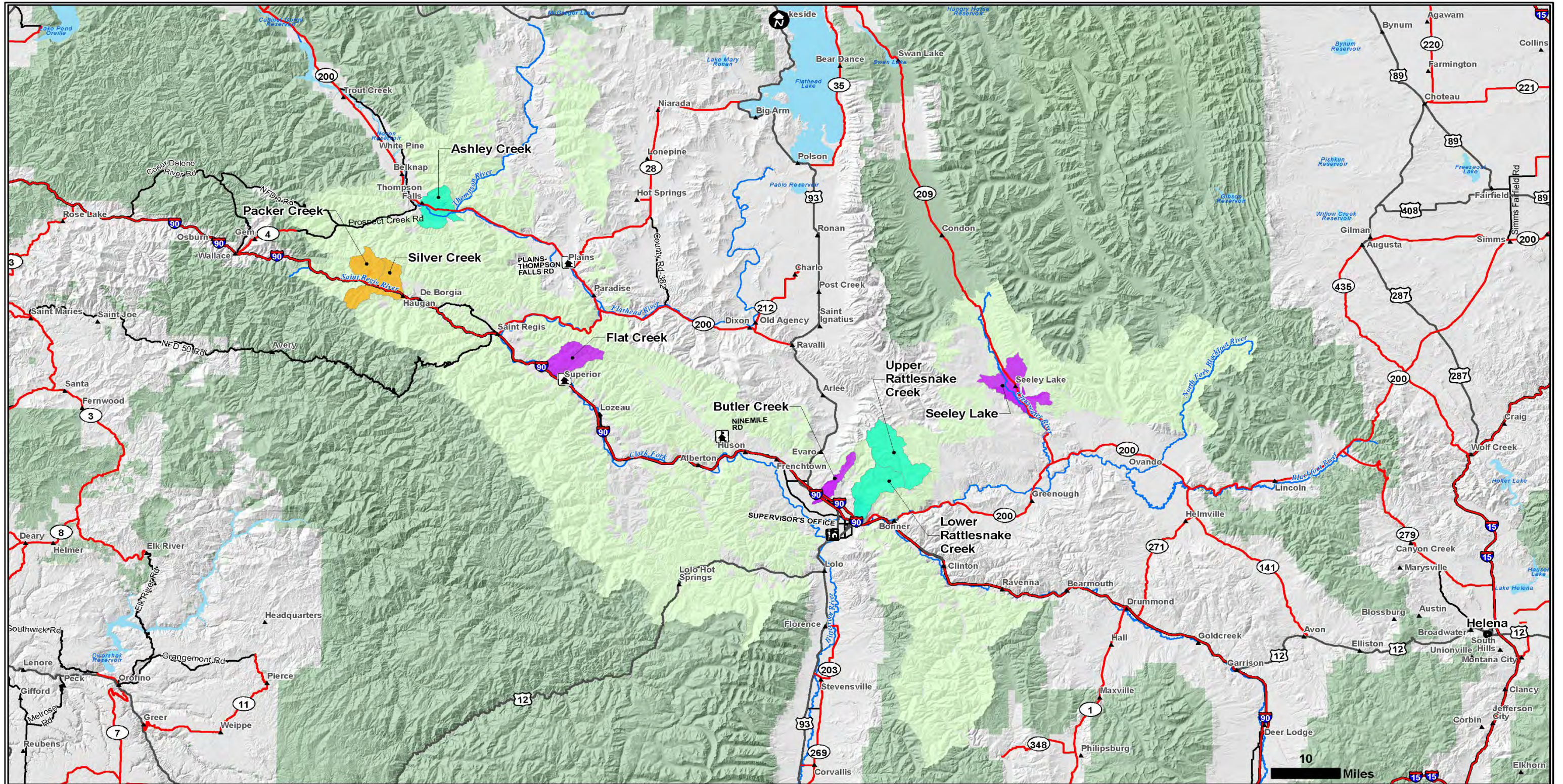
Lolo National Forest Land Management Plan Assessment-Watershed Condition Category

■ Functioning Properly	■ Functioning at Risk	■ Impaired Function
---	---	--

Other map features

 Subbasins (HUC8) used in the Assessment	 Not evaluated (less than 5% National Forest System lands)				
● Major Cities	▲ Towns	— Interstate Highway	— State Highway	— US Highway	
 Lolo National Forest Admin Boundary	 Other National Forest Administrative Areas	 Forest Service	 Non-Forest Service	~ Stream/River	 Lake/Pond

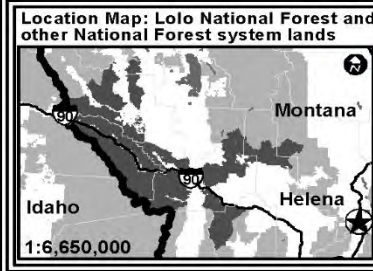
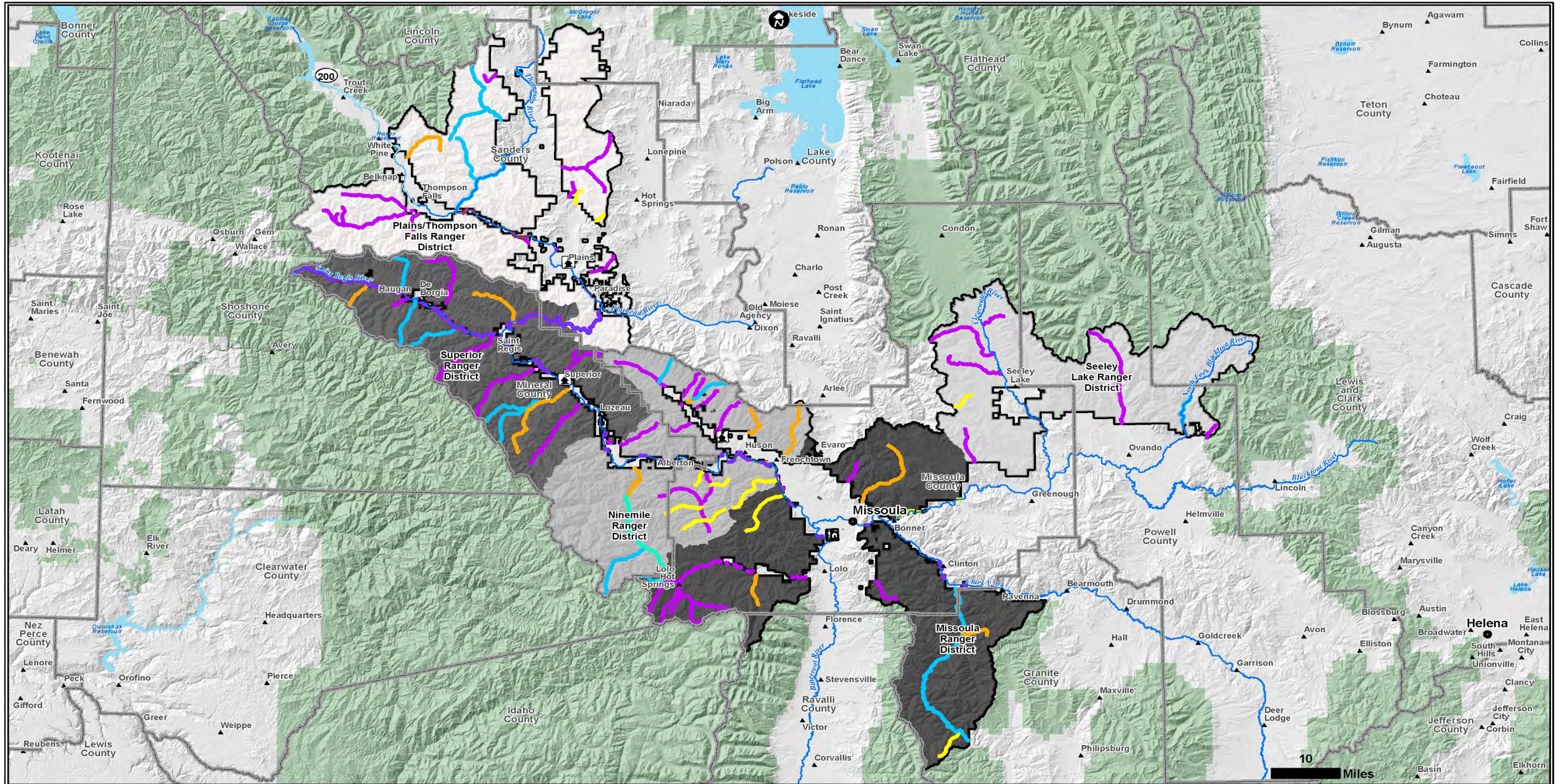
Figure 1-05: Municipal Water Supply [\(back to list of figures\)](#)



Lolo National Forest Land Management Plan Assessment-Lolo Municipal Water Supply

- | | | |
|--|--|---|
| A-1 | Active Public Water Supply | Municipal |
| Other map features | | |
| Major Cities | Towns | Interstate Highway |
| State Highway | US Highway | Forest Service |
| Lolo National Forest Admin Boundary | Other National Forest Administrative Areas | Non-Forest Service |
| Stream/River | Lake/Pond | |

Figure 1-06: Montana DEQ Impaired streams [\(back to list of figures\)](#)



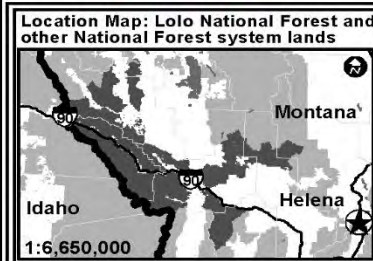
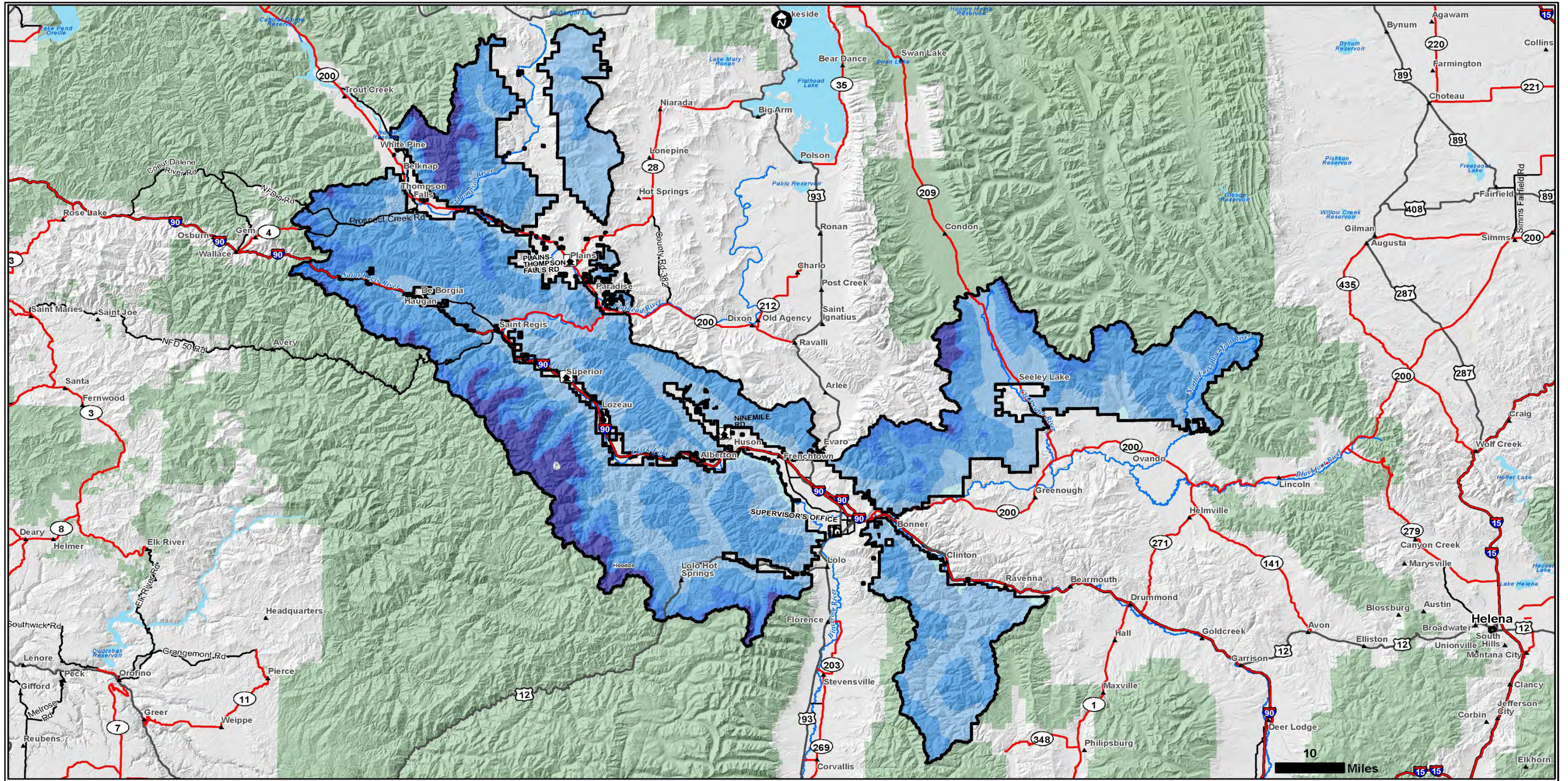
Lolo National Forest Land Management Plan Assessment-MT DEQ Impaired Streams Water Quality Category

1	2	3	4A	4C	5
---	---	---	----	----	---

Other map features

Major Cities	Towns	Montana Counties	Lolo National Forest Admin Boundary	Other National Forest Administrative Areas
Missoula Ranger District	Ninemile Ranger District	Plains/Thompson Falls Ranger District	Seeley Lake Ranger District	Superior Ranger District
Stream/River	Lake/Pond			

Figure 1-07: Isohyet map of precipitation ([back to list of figures](#))



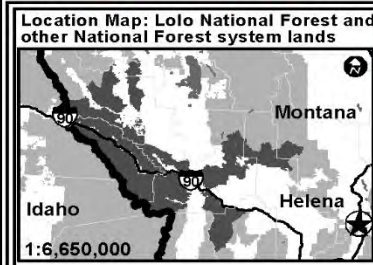
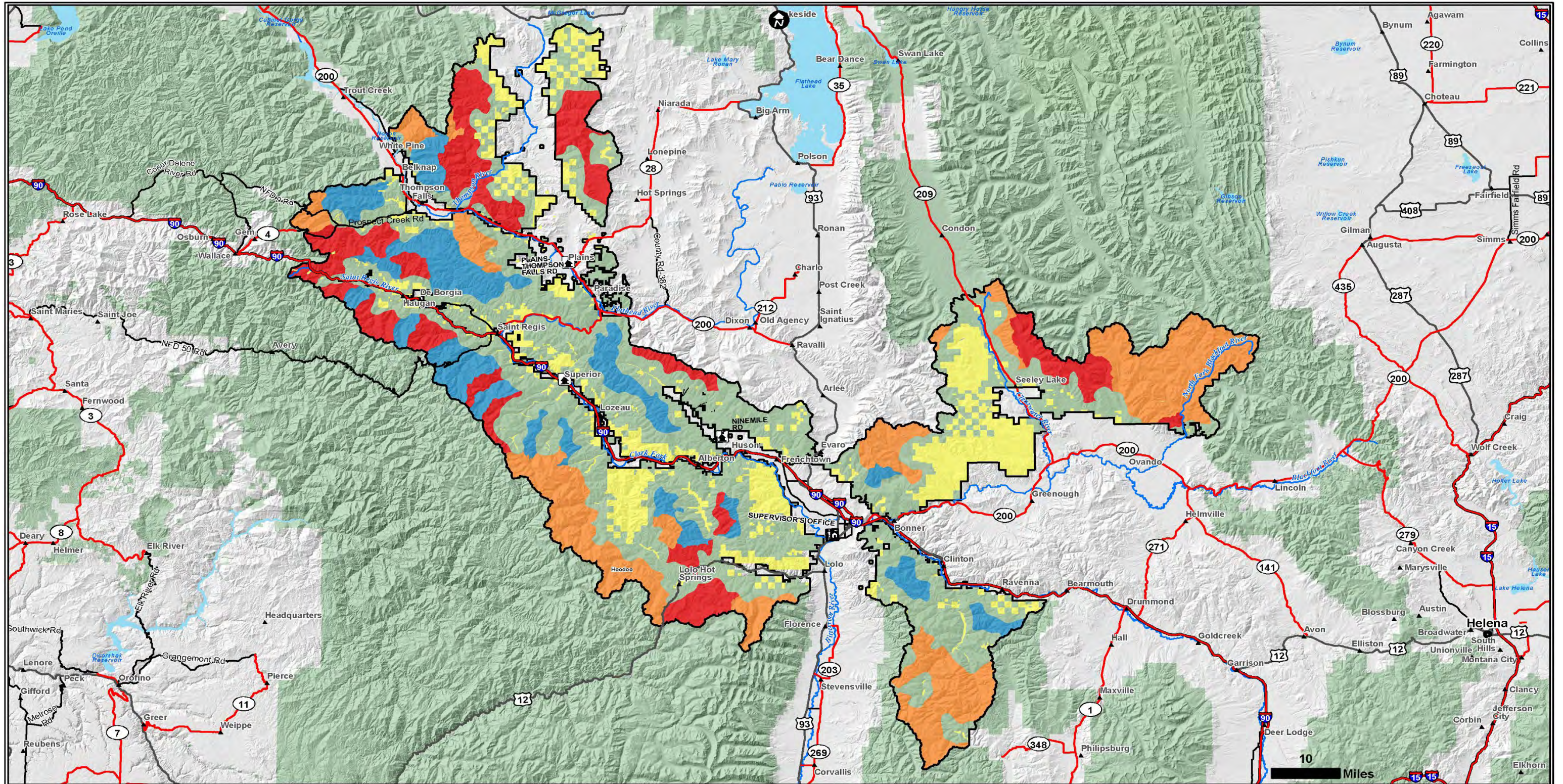
Lolo National Forest Land Management Plan Assessment-Montana PRISM Average Annual Precipitation (inches)

10.000000 - 18.000000	18.000001 - 30.000000	30.000001 - 50.000000	50.000001 - 60.000000	60.000001 - 90.000000
-----------------------	-----------------------	-----------------------	-----------------------	-----------------------

Other map features

- Major Cities (circle with dot)
- Towns (triangle)
- Interstate Highway (thick red line)
- State Highway (red line)
- US Highway (black line)
- Lolo National Forest Admin Boundary (thick black line)
- Other National Forest Administrative Areas (green)
- Forest Service (light green)
- Non-Forest Service (grey)
- Stream/River (blue line)
- Lake/Pond (light blue)

Figure 1-08: Strategic Fire Management Zones [\(back to list of figures\)](#)



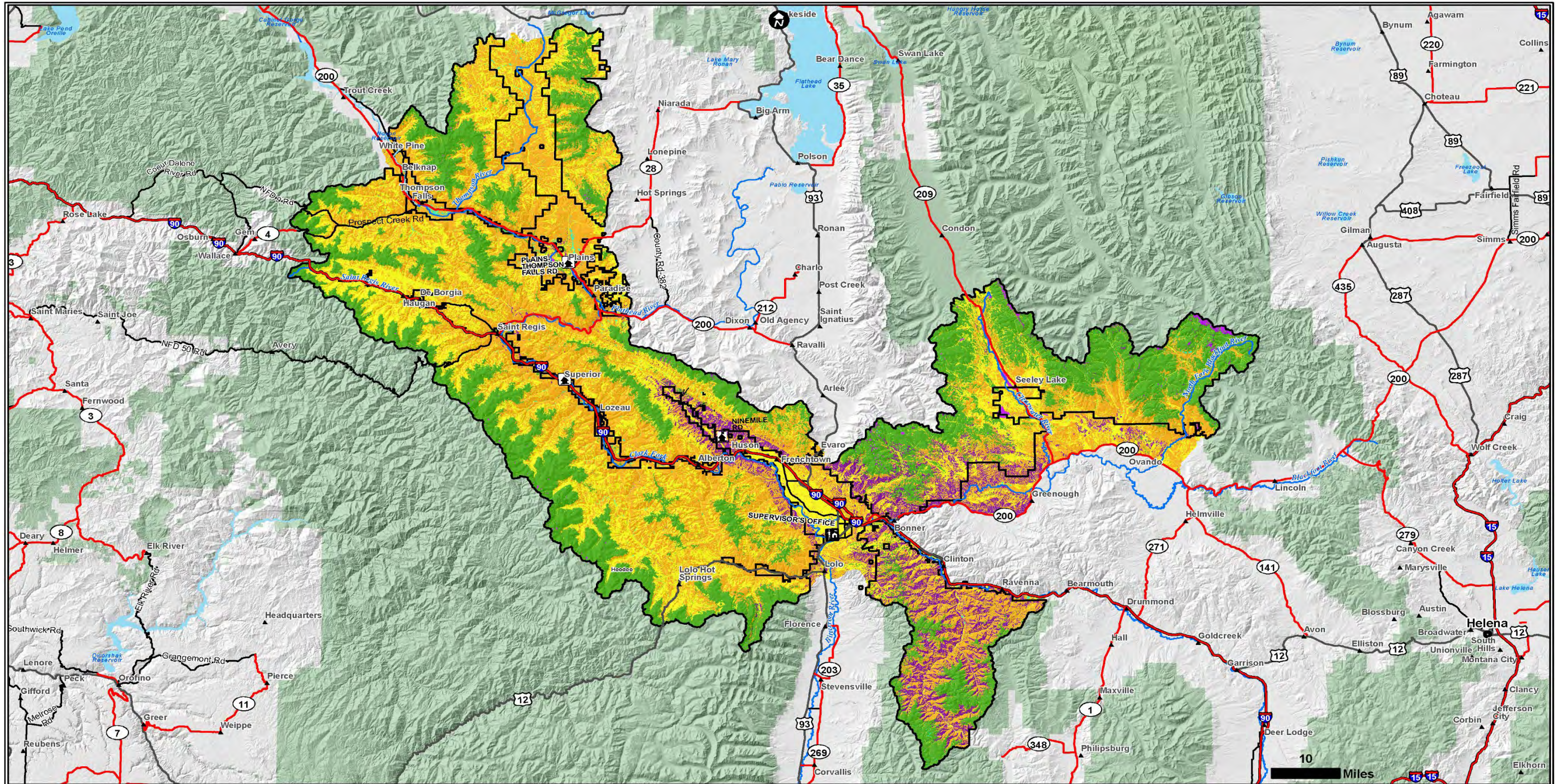
Lolo National Forest Land Management Plan Assessment-Strategic Fire Management Zones

■ General Protection	■ Community Protection	■ Non-FS	■ Maintenance	■ Restoration
--	---	--	---	--

Other map features

● Major Cities	▲ Towns	— Interstate Highway	— State Highway	— US Highway
□ Lolo National Forest Admin Boundary	■ Other National Forest Administrative Areas	■ Forest Service	■ Non-Forest Service	— Stream/River
				■ Lake/Pond

Figure 1-09: Fire Frequency Classes derived from LANDFIRE Regime Groups [\(back to list of figures\)](#)



Location Map: Lolo National Forest and other National Forest system lands

1:6,650,000

Lolo National Forest Land Management Plan Assessment-Fire Frequency Classes derived from LANDFIRE Fire Regime Groups

■ A: Very frequent (6-15 yrs)	■ B: Frequent (16-35 yrs)	■ C: Moderately frequent (36-100 yrs)	■ D: Infrequent (101-200 yrs)	■ E: Very Infrequent (201-500 yrs)	■ NA
---	---	---	--	--	---

Other map features

● Major Cities	▲ Towns	— Interstate Highway	— State Highway	— US Highway	
□ Lolo National Forest Admin Boundary	■ Other National Forest Administrative Areas	■ Forest Service	■ Non-Forest Service	— Stream/River	■ Lake/Pond

Figure 1-10: Social and Economic Analysis Area [\(back to list of figures\)](#)

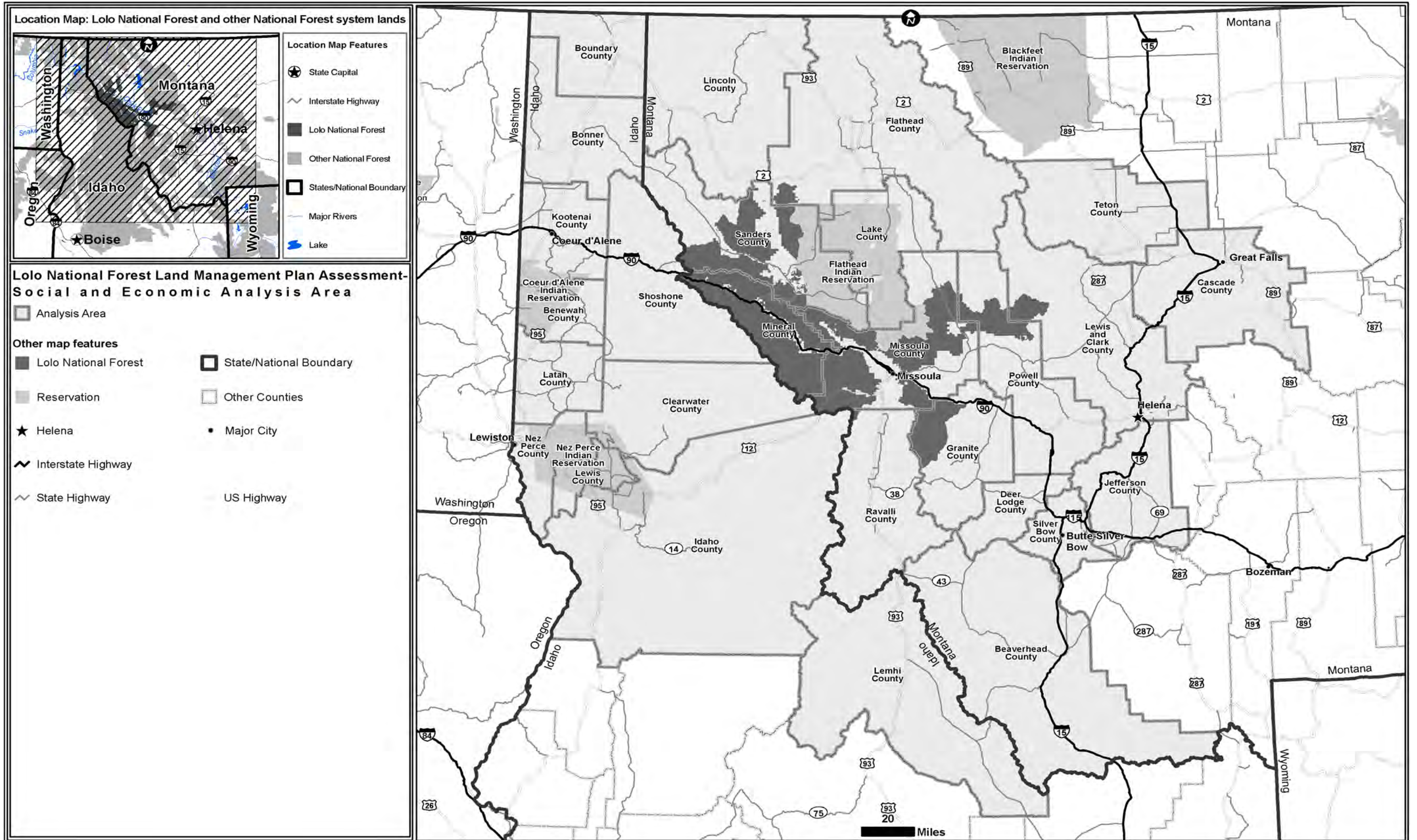
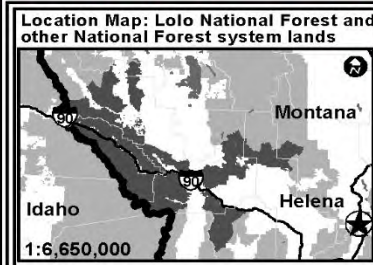
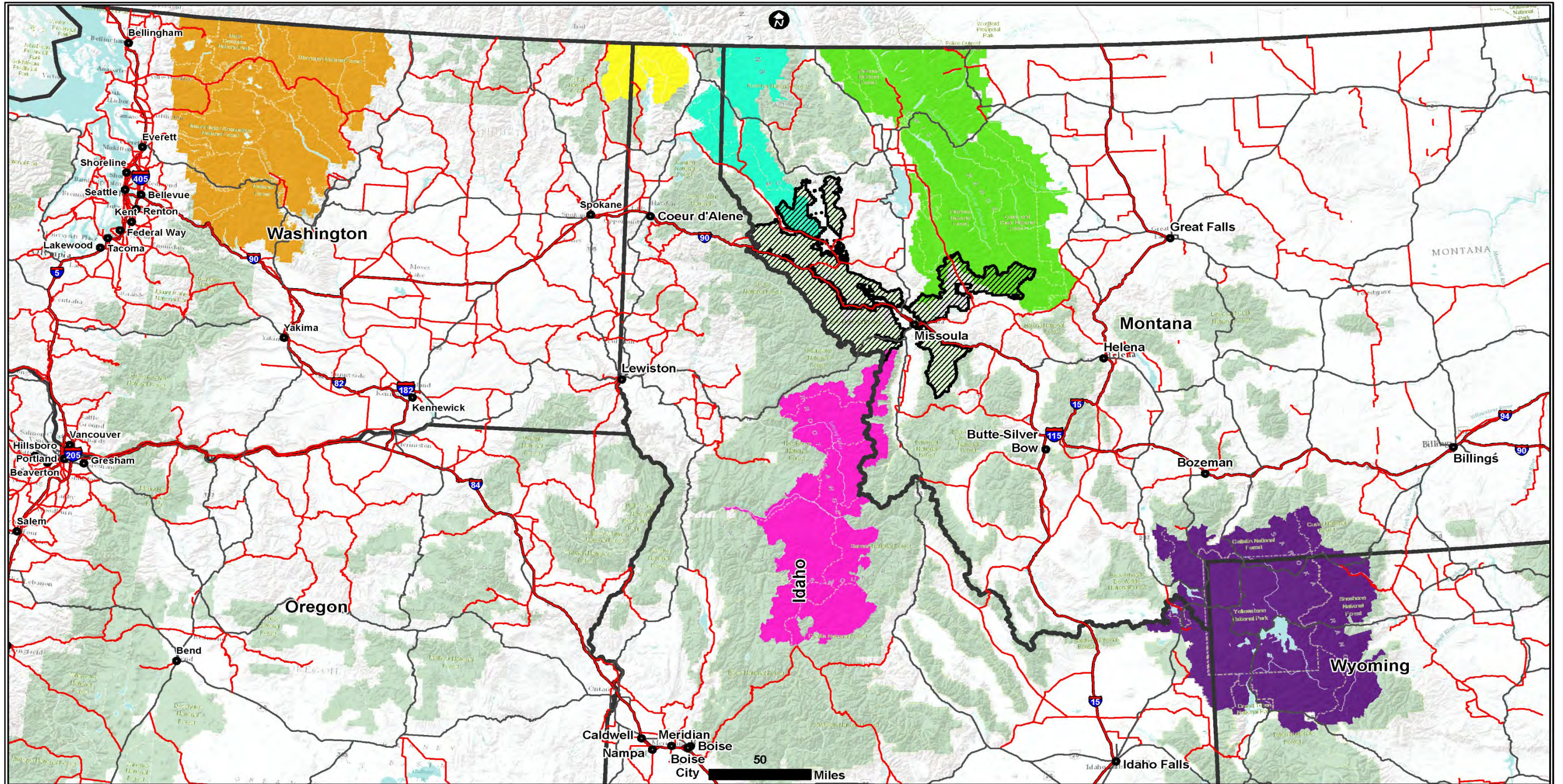


Figure 1-11: Northern Continental Divide Ecosystem Grizzly Distribution Area [\(back to list of figures\)](#)



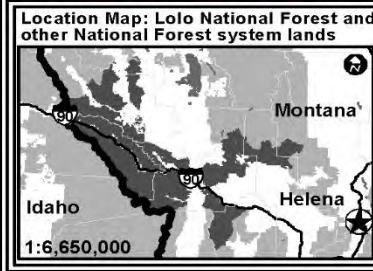
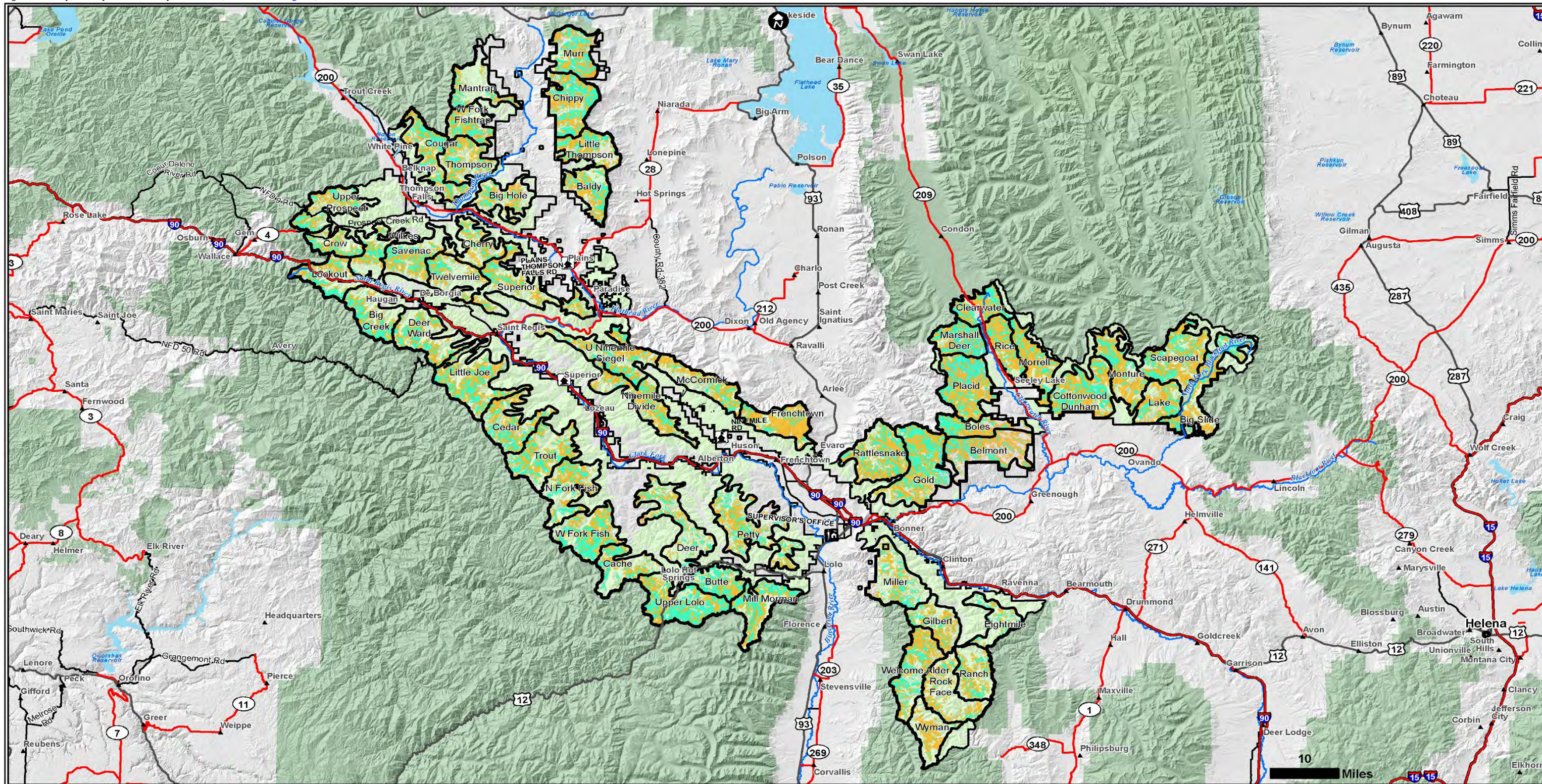
Lolo National Forest Land Management Plan Assessment-Grizzly Bear management and recovery zones

Cabinet-Yaak Ecosystem	Greater Yellowstone Ecosystem	North Cascades Ecosystem	Northern Continental Divide Ecosystem	Selkirk Ecosystem	Selway-Bitterroot Ecosystem
------------------------	-------------------------------	--------------------------	---------------------------------------	-------------------	-----------------------------

Other map features

Major Cities	Interstate Highway	State Highway	US Highway	State/National Boundary	
Lolo National Forest Admin Boundary	Other National Forest Administrative Areas	Forest Service	Non-Forest Service	Stream/River	Lake/Pond

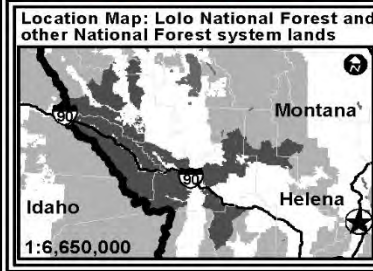
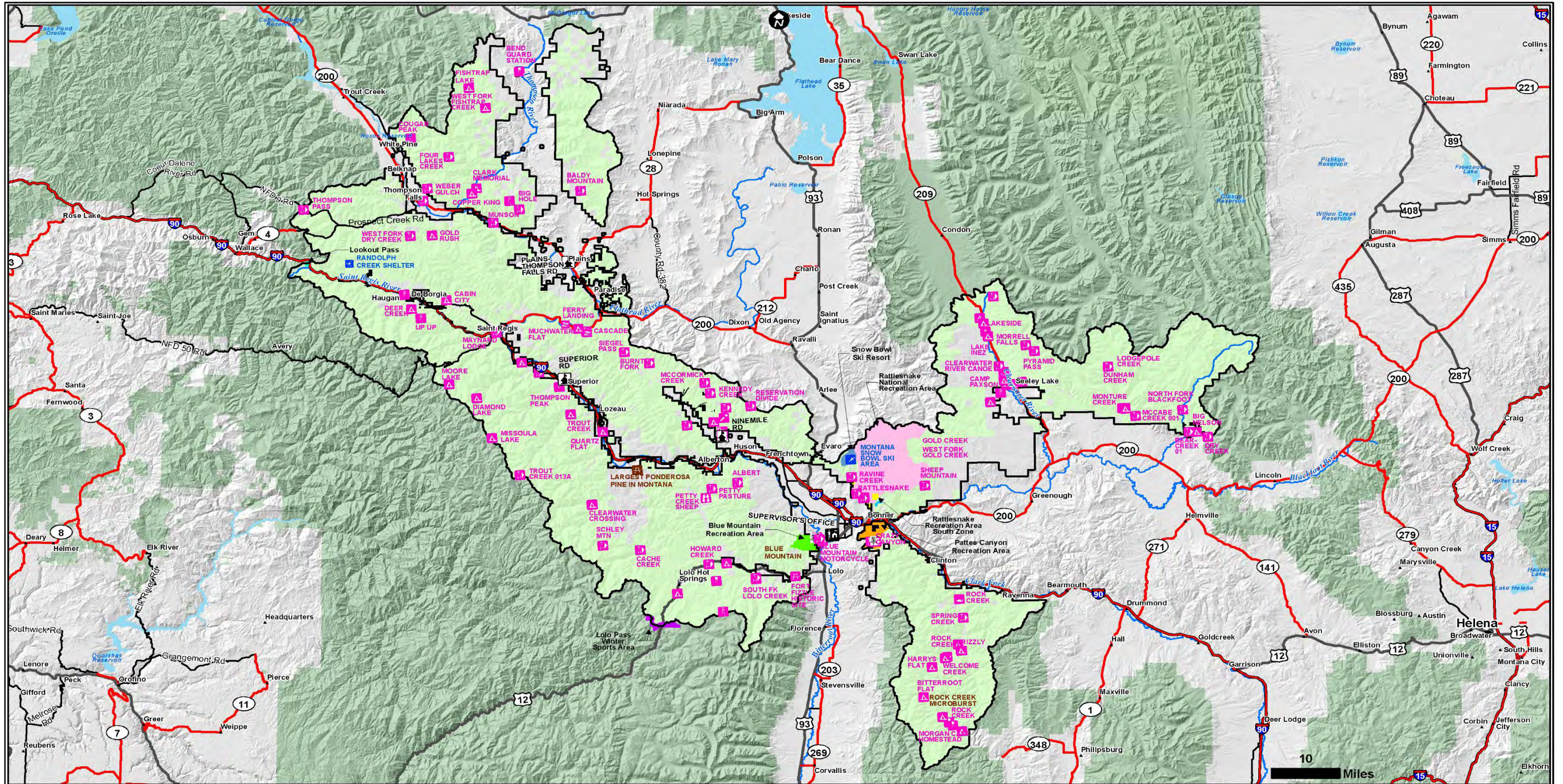
Figure 1-12: Lynx analysis units and lynx habitat (back to list of figures)



Lolo National Forest Land Management Plan Assessment-Lynx analysis units and Lynx habitat category

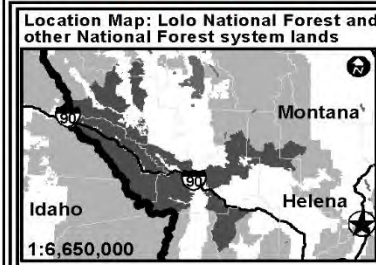
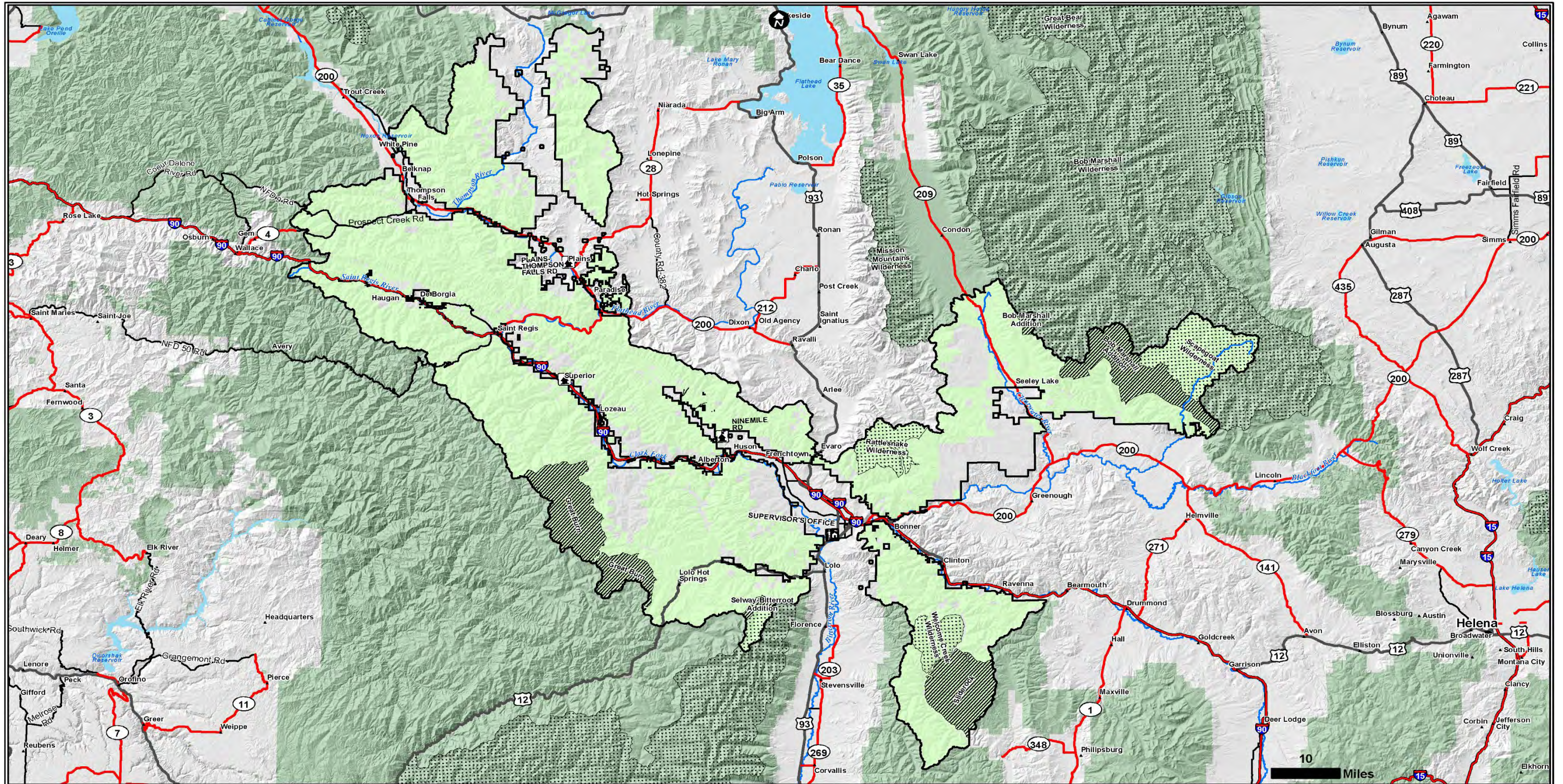
- | | | |
|-------------------------------------|--|--------------------|
| Lynx Analysis Units | Primary | Secondary |
| Other map features | | |
| Major Cities | Towns | Interstate Highway |
| Lolo National Forest Admin Boundary | Other National Forest Administrative Areas | State Highway |
| Forest Service | Non-Forest Service | US Highway |
| Stream/River | Lake/Pond | |

Figure 1-13: Developed recreation sites ([back to list of figures](#))



Lolo National Forest Land Management Plan Assessment-Developed recreation sites											
Forest Service Office		Recreation Site									
	R1-Northern Region Office, BLDG 26		Boating site		Fishing site		Interpretive site		Organization site		Snow play area
	Forest Supervisor's Office/Missoula RD		Campground		Group picnic site		Interpretive site (admin)		Picnic site		Specialized sport site
	Ranger District		Day use area		Hotel, Lodge, Resort		Lookout/cabin		Alpine ski area		Trailhead
Other map features		Recreation Areas									
	Major Cities		Towns		Interstate Highway		State Highway		US Highway		Lolo National Forest Admin Boundary
	Other National Forest Administrative Areas		Forest Service		Non-Forest Service		Stream/River		Lake/Pond		Blue Mountain Recreation Area
	Pattee Canyon Recreation Area		Rattlesnake National Recreation Area		Rattlesnake Recreation Area South Zone		Snow Bowl Ski Resort		Lolo Pass Winter Sports Area		Lookout Pass
	Marshall Ski Area		Snow Bowl Ski Resort								

Figure 1-14: Wilderness and Previously Recommended Wilderness [\(back to list of figures\)](#)



Lolo National Forest Land Management Plan Assessment-Wilderness areas

Wilderness
 Recommended Wilderness

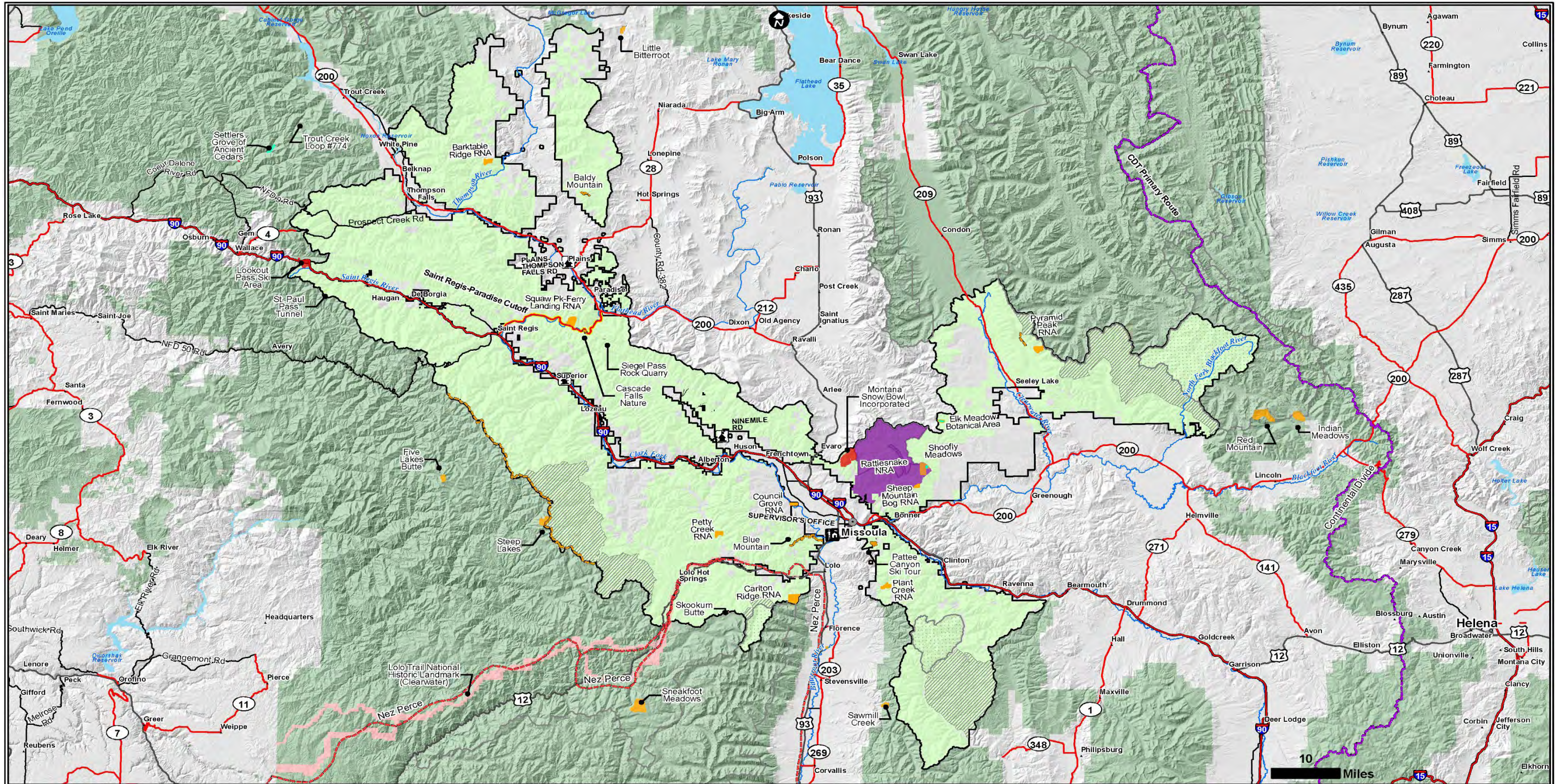
Forest Service Office

R1-Northern Region Office, BLDG 26
 Forest Supervisor's Office/Missoula RD
 Ranger District

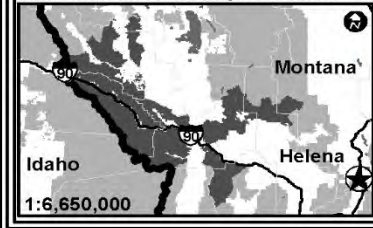
Other map features

Major Cities
 Towns
 Interstate Highway
 State Highway
 US Highway
 Lolo National Forest Admin Boundary
 Other National Forest Administrative Areas
 Forest Service
 Non-Forest Service
 Stream/River
 Lake/Pond

Figure 1-15: Existing Designated Areas [\(back to list of figures\)](#)



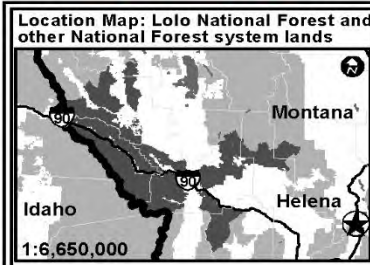
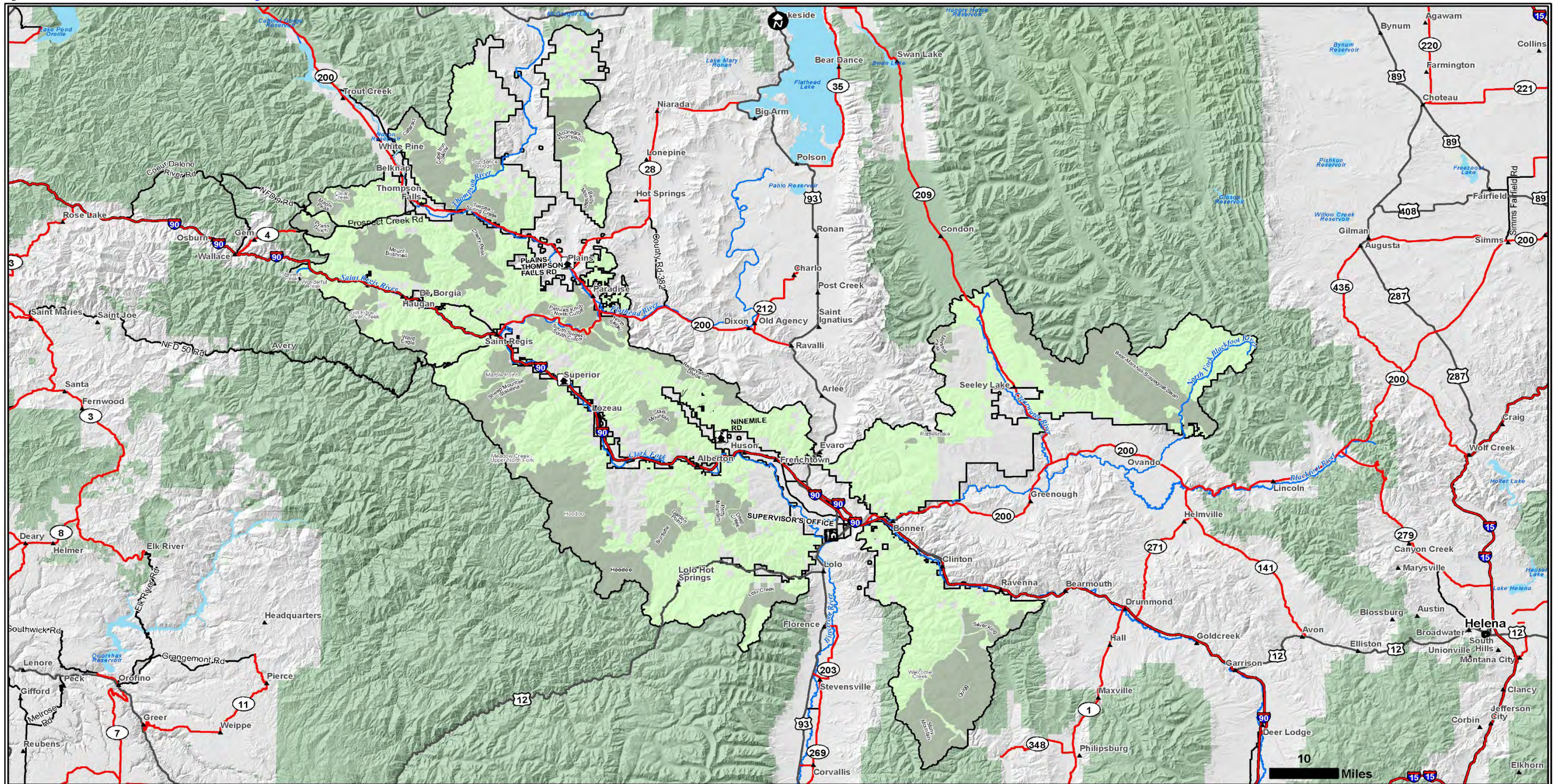
Location Map: Lolo National Forest and other National Forest system lands



Lolo National Forest Land Management Plan Assessment-Existing Designated Areas

National Historic Trail	National Recreation Trail	National Scenic Trail	Botanical Area	Historical Area	Mineral Reserve Area	National Historic Landmark	National Recreation Trail	Recreation Area	Research Natural Area	
Scenic byway: St. Regis - Paradise cutoff	Wilderness	Recommended Wilderness								
Forest Service Office										
R1-Northern Region Office, BLDG 26	Forest Supervisor's Office/Missoula RD	Ranger District								
Other map features										
Major Cities	Towns	Interstate Highway	State Highway	US Highway	Lolo National Forest Admin Boundary	Other National Forest Administrative Areas	Forest Service	Non-Forest Service	Stream/River	Lake/Pond

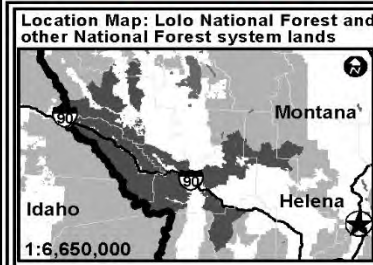
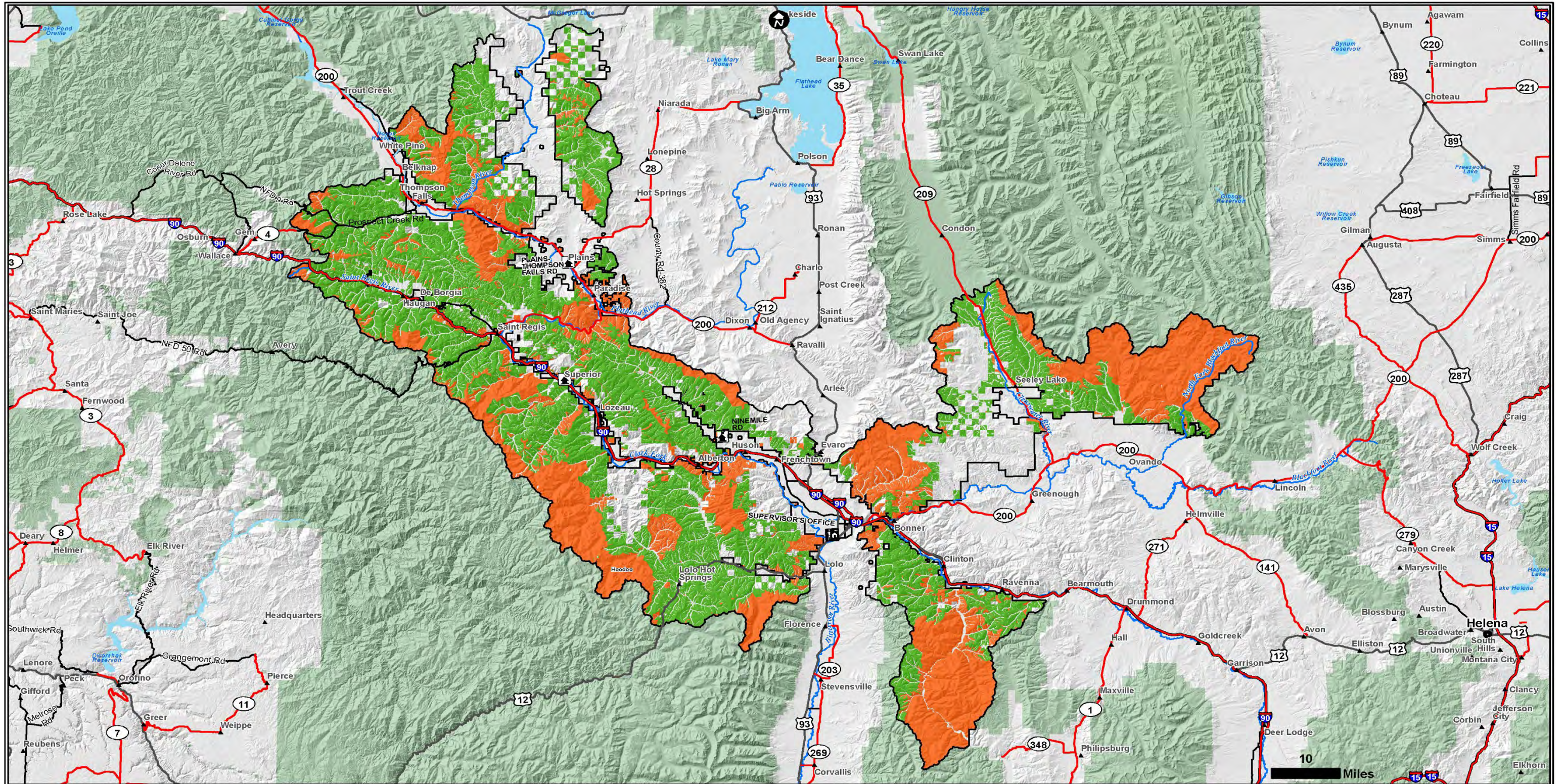
Figure 1-16: Inventoried Roadless Areas (back to list of figures)



Lolo National Forest Land Management Plan Assessment-Inventoried Roadless Area

Inventoried Roadless Areas	Other National Forest Administrative Areas	Forest Service	Non-Forest Service	Stream/River	Lake/Pond
Major Cities	Towns	Interstate Highway	State Highway	US Highway	
Lolo National Forest Admin Boundary					

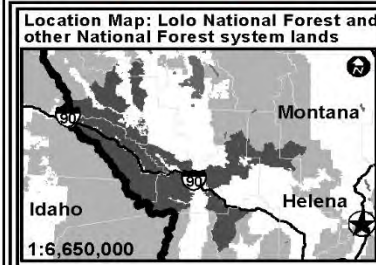
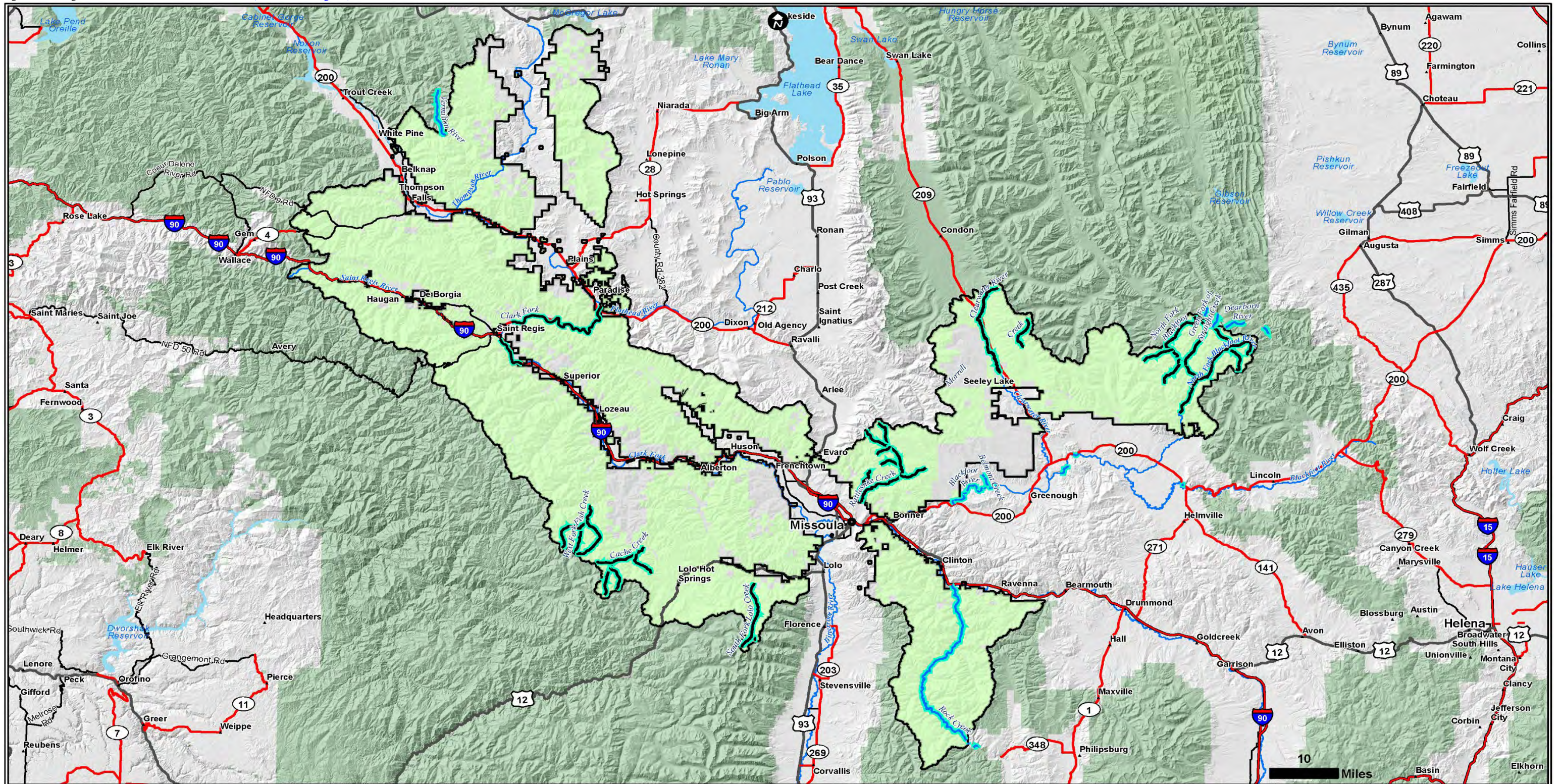
Figure 1-17: Existing Timber Suitability [\(back to list of figures\)](#)



Lolo National Forest Land Management Plan Assessment-Existing Timber Suitability

Suitable	Unsuitable
Other map features	
Major Cities	Towns
Interstate Highway	State Highway
US Highway	Lolo National Forest Admin Boundary
Other National Forest Administrative Areas	Forest Service
Non-Forest Service	Stream/River
Lake/Pond	

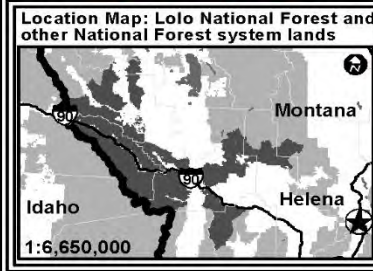
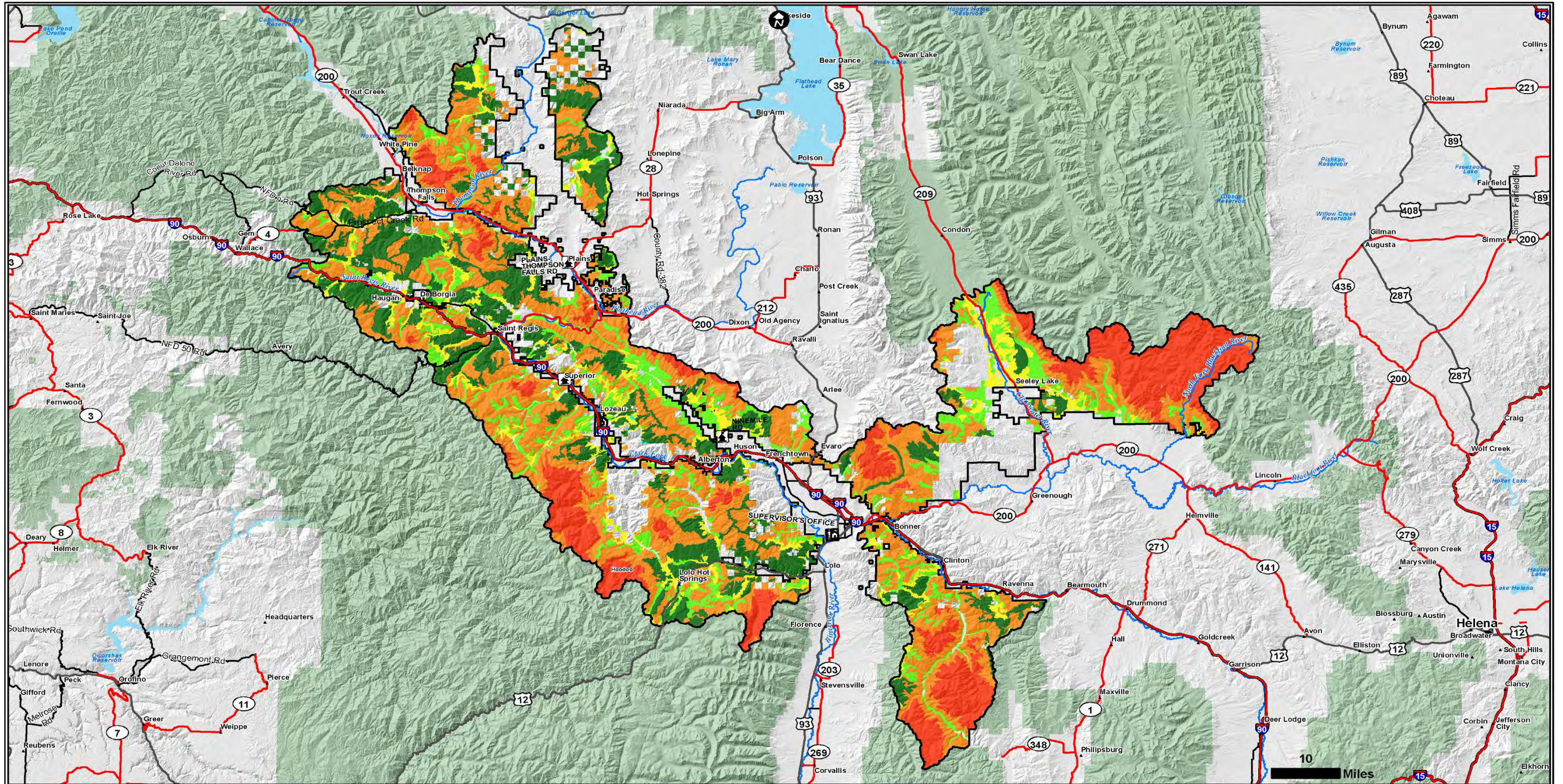
Figure 1-18: Eligible and suitable wild and scenic rivers [\(back to list of figures\)](#)



Lolo National Forest Land Management Plan Assessment-Eligible and Suitable Wild and Scenic Rivers

Eligible	Suitable		
Other map features			
Major Cities	Towns	Interstate Highway	State Highway
Lolo National Forest Administrative Boundary	Other National Forest Administrative Areas	Forest Service	Non-Forest Service
	Stream/River	Lake/Pond	US Highway
			Local Connecting Road

Figure 1-19: Existing Summer Recreation Opportunity Spectrum Classes [\(back to list of figures\)](#)

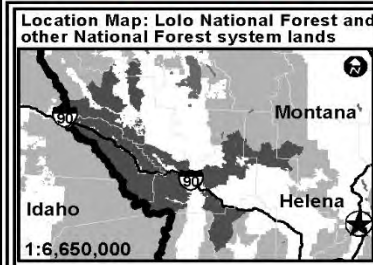
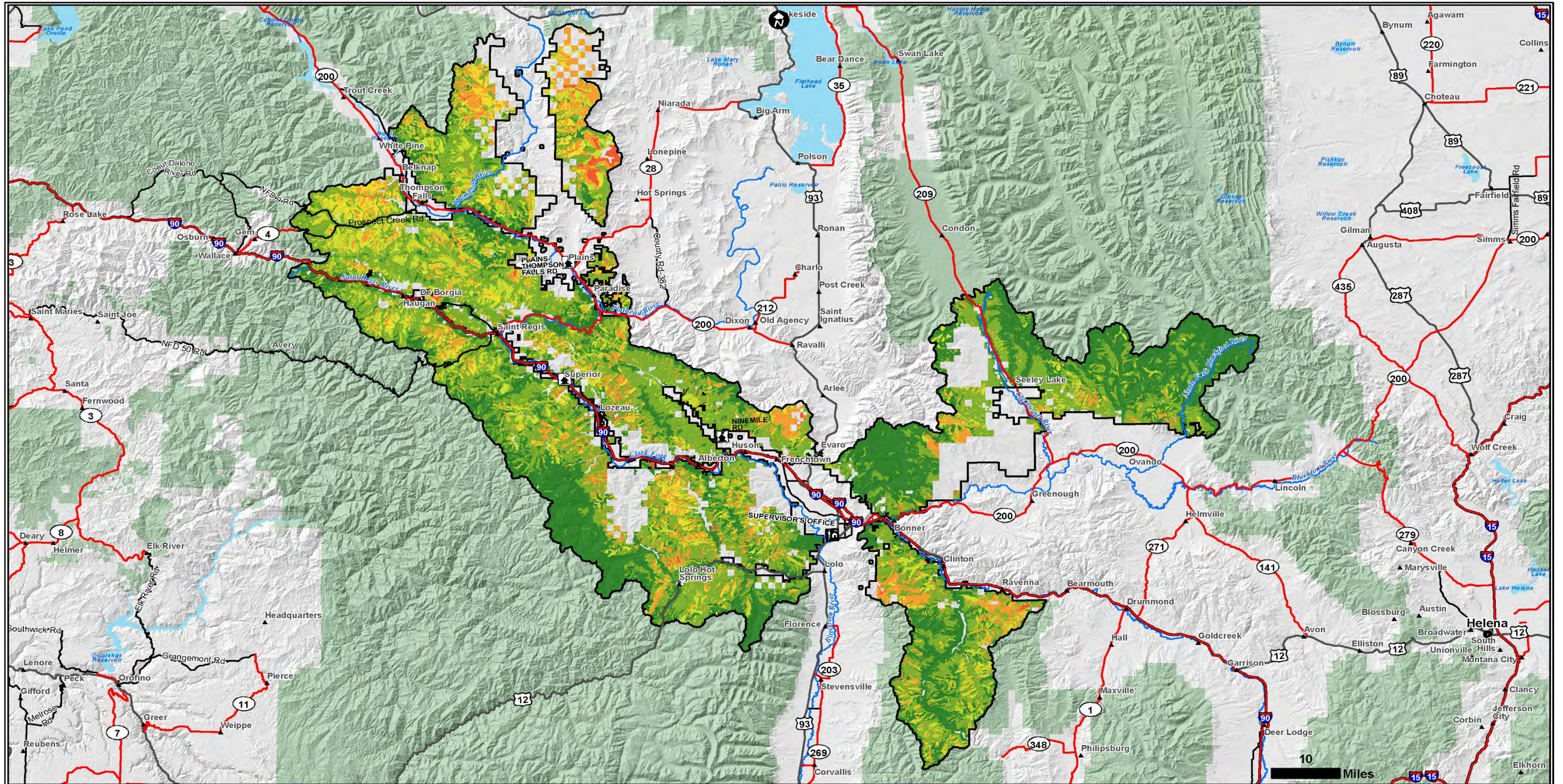


Lolo National Forest Land Management Plan Assessment-Summer Recreation Opportunity Spectrum Classes

■ P-Primitive	■ R-Rural	■ RN-Roaded Natural	■ SPM-Semi-Primitive Motorized	■ SPNM-Semi-Primitive Non-Motorized	■ U-Urban
--	---	---	---	---	---

Other map features

● Major Cities	▲ Towns	⚡ Interstate Highway	⚡ State Highway	⚡ US Highway	
□ Lolo National Forest Admin Boundary	■ Other National Forest Administrative Areas	■ Forest Service	■ Non-Forest Service	⚡ Stream/River	■ Lake/Pond



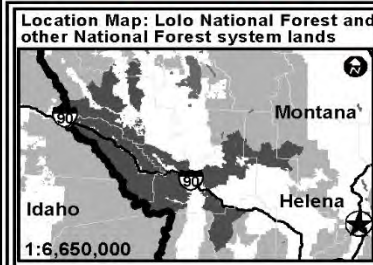
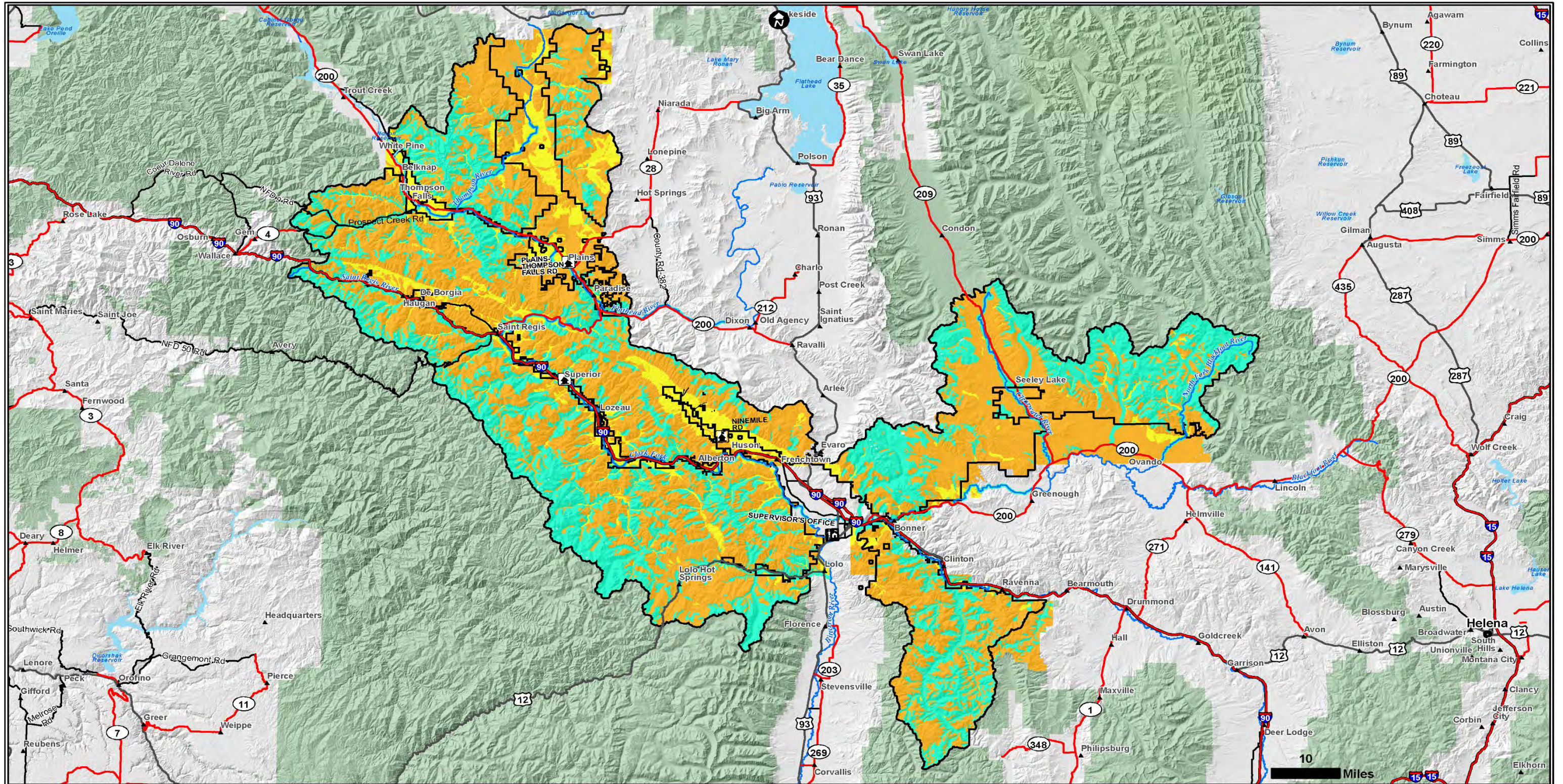
Lolo National Forest Land Management Plan Assessment-Scenic Classes

1-Highest public value for scenery	2-High public value for scenery	3-Moderate public value for scenery	4-Moderate public value for scenery	5-Moderate public value for scenery	7-Lowest public value for scenery
------------------------------------	---------------------------------	-------------------------------------	-------------------------------------	-------------------------------------	-----------------------------------

Other map features

Major Cities	Towns	Interstate Highway	State Highway	US Highway	
Lolo National Forest Admin Boundary	Other National Forest Administrative Areas	Forest Service	Non-Forest Service	Stream/River	Lake/Pond

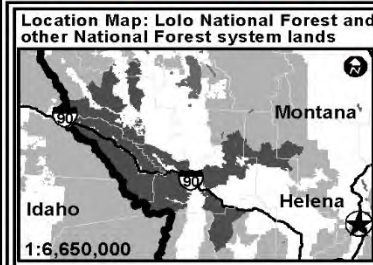
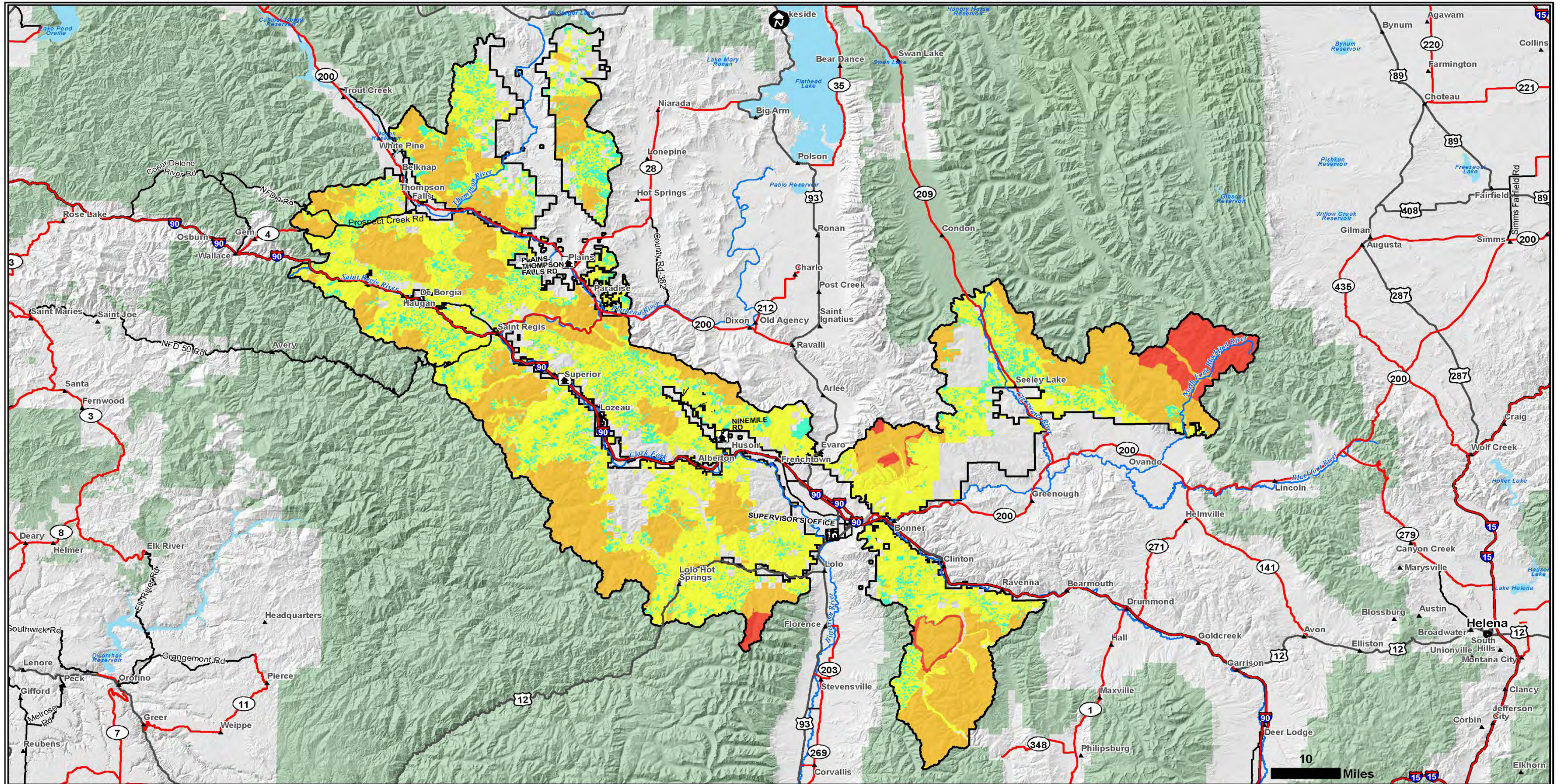
Figure 1-21: Existing Scenic Attractiveness [\(back to list of figures\)](#)



Lolo National Forest Land Management Plan Assessment-Scenic Attractiveness

- | | | |
|---|---|---|
| ■ A-Distinctive | ■ B-Typical | ■ C-Indistinctive |
|---|---|---|
- Other map features**
- | | | | | | |
|---|---|--|---|--|--|
| ● Major Cities | ▲ Towns | — Interstate Highway | — State Highway | — US Highway | |
| □ Lolo National Forest Admin Boundary | ■ Other National Forest Administrative Areas | ■ Forest Service | ■ Non-Forest Service | — Stream/River | ■ Lake/Pond |

Figure 1-22: Existing Scenic Integrity [\(back to list of figures\)](#)



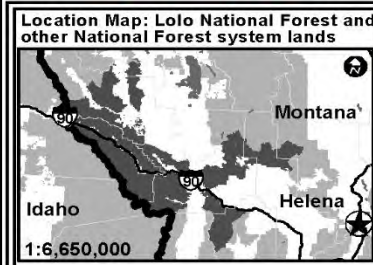
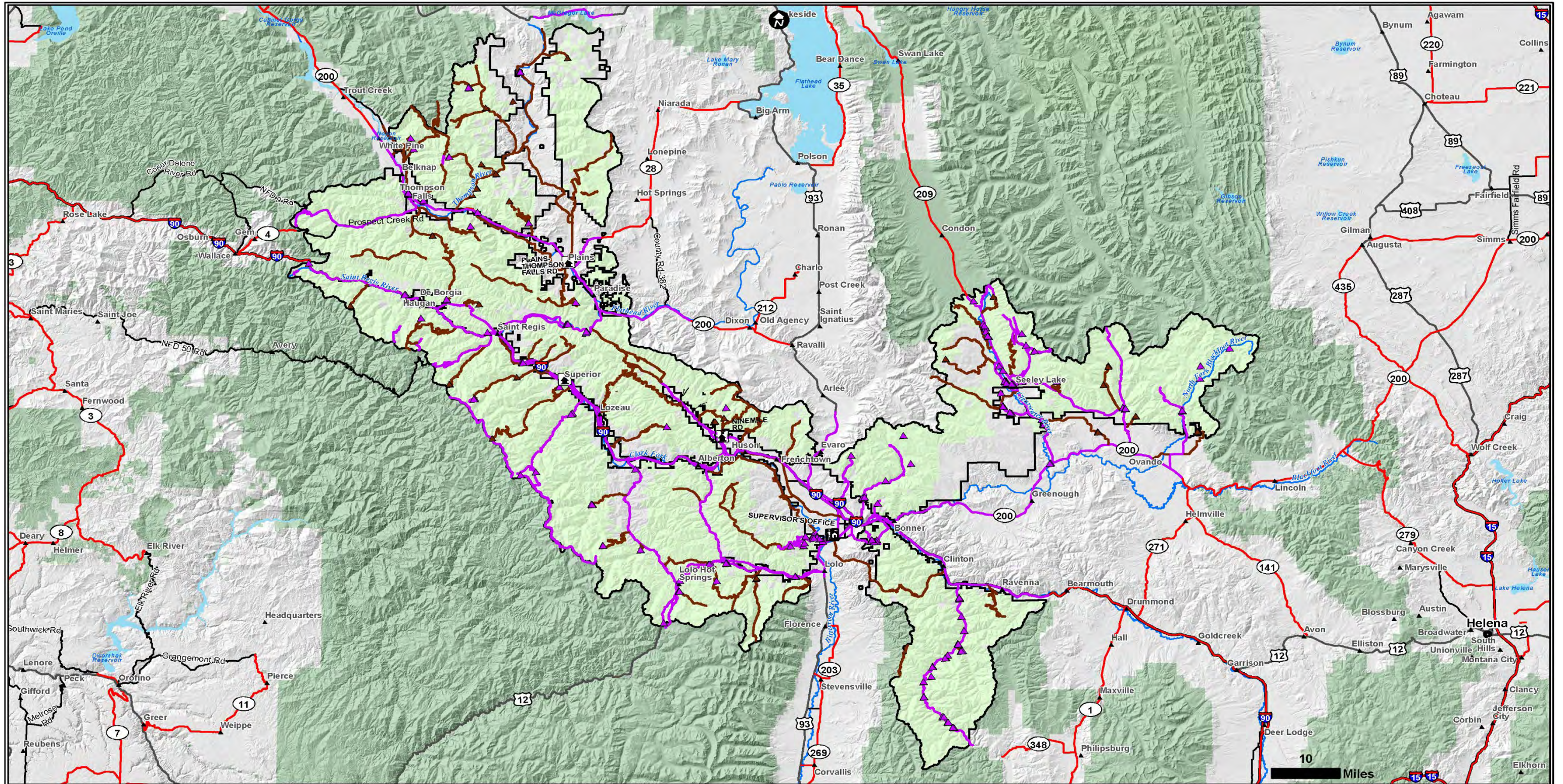
Lolo National Forest Land Management Plan Assessment-Existing Scenic Integrity

- Low
- Moderate
- High
- Very High

Other map features

- Major Cities
- ▲ Towns
- Interstate Highway
- State Highway
- US Highway
- Lolo National Forest Admin Boundary
- Other National Forest Administrative Areas
- Forest Service
- Non-Forest Service
- Stream/River
- Lake/Pond

Figure 1-23: Existing Concern level Travelways and concern level points [\(back to list of figures\)](#)



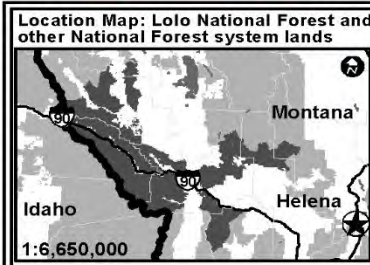
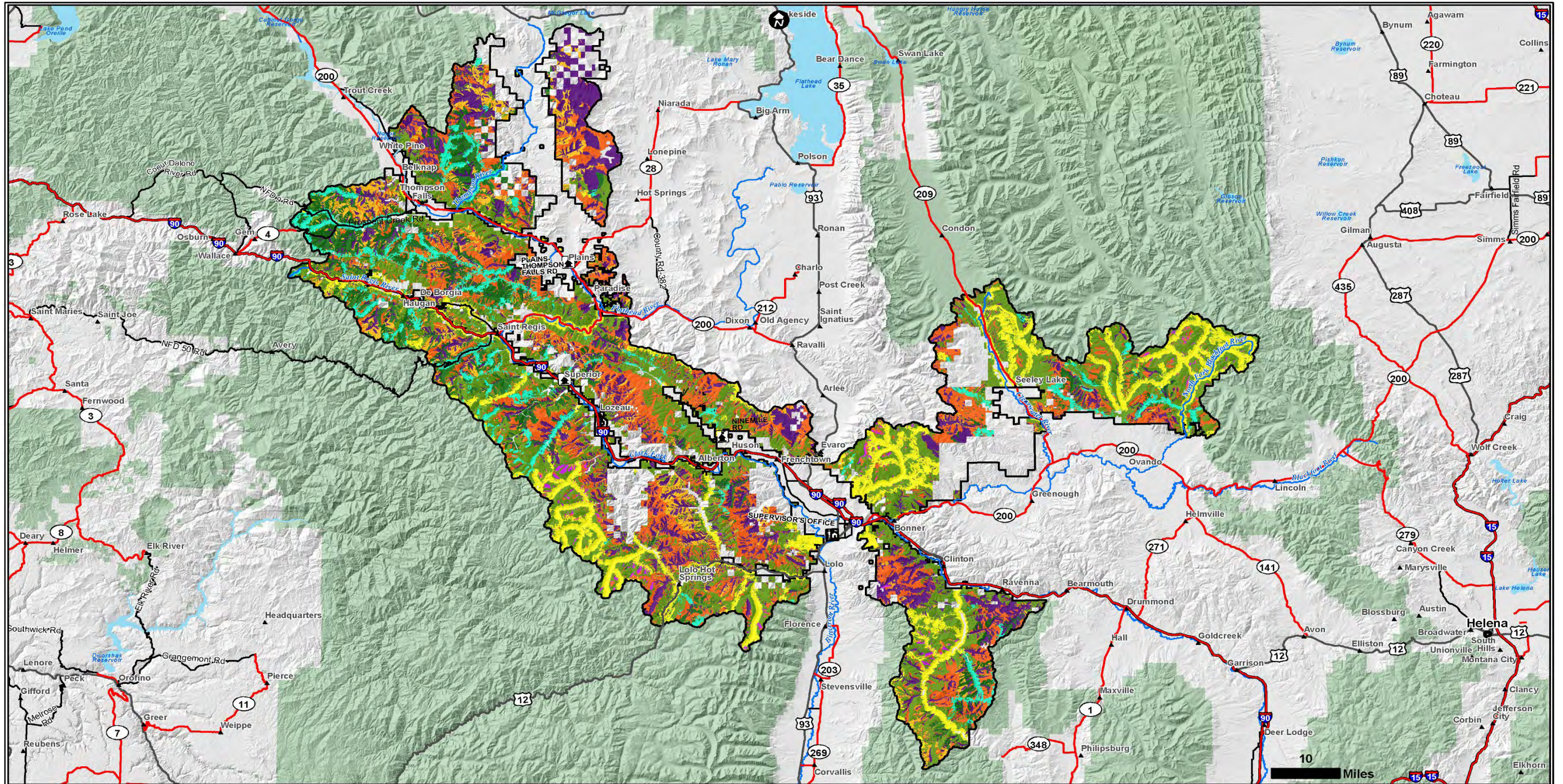
Lolo National Forest Land Management Plan Assessment-Concern level travelway and concern level points

▲ 1-High interest in scenery	▲ 2-Moderate interest in scenery	▲ 1-High interest in scenery	▲ 2-Moderate interest in scenery
------------------------------	----------------------------------	------------------------------	----------------------------------

Other map features

● Major Cities	▲ Towns	↔ Interstate Highway	↔ State Highway	↔ US Highway	
□ Lolo National Forest Admin Boundary	■ Other National Forest Administrative Areas	■ Forest Service	■ Non-Forest Service	~ Stream/River	■ Lake/Pond

Figure 1-24: Landscape Visibility [\(back to list of figures\)](#)



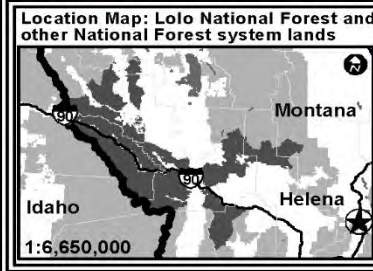
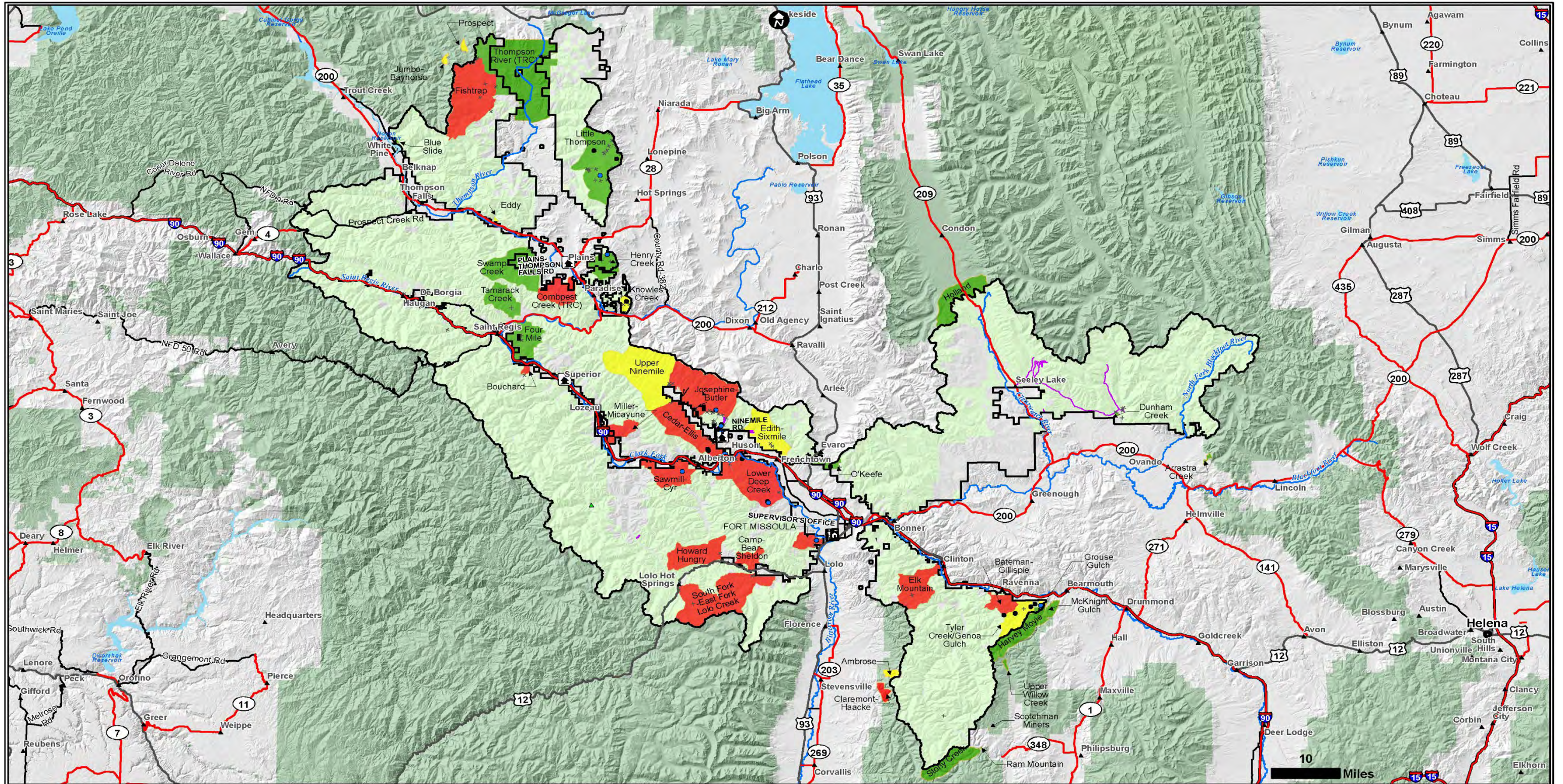
Lolo National Forest Land Management Plan Assessment-Landscape Visibility

- Bg1-Background Concern Level 1
- Fg1-Foreground Concern Level 1
- Mg1-Middleground Concern Level 1
- ss1-Seldom Seen Concern Level 1
- Bg2-Background Concern Level 2
- Fg2-Foreground Concern Level 2
- Mg2-Middleground Concern Level 2
- ss3-Seldom Seen Concern Level 3

Other map features

- Lolo National Forest Admin Boundary
- Forest Service
- Non-Forest Service
- Lake/Pond
- Major Cities
- Towns
- Interstate Highway
- State Highway
- US Highway
- Stream/River

Figure 1-25: Range Management Units ([back to list of figures](#))



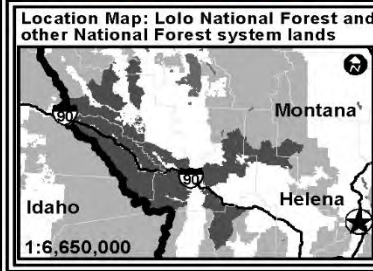
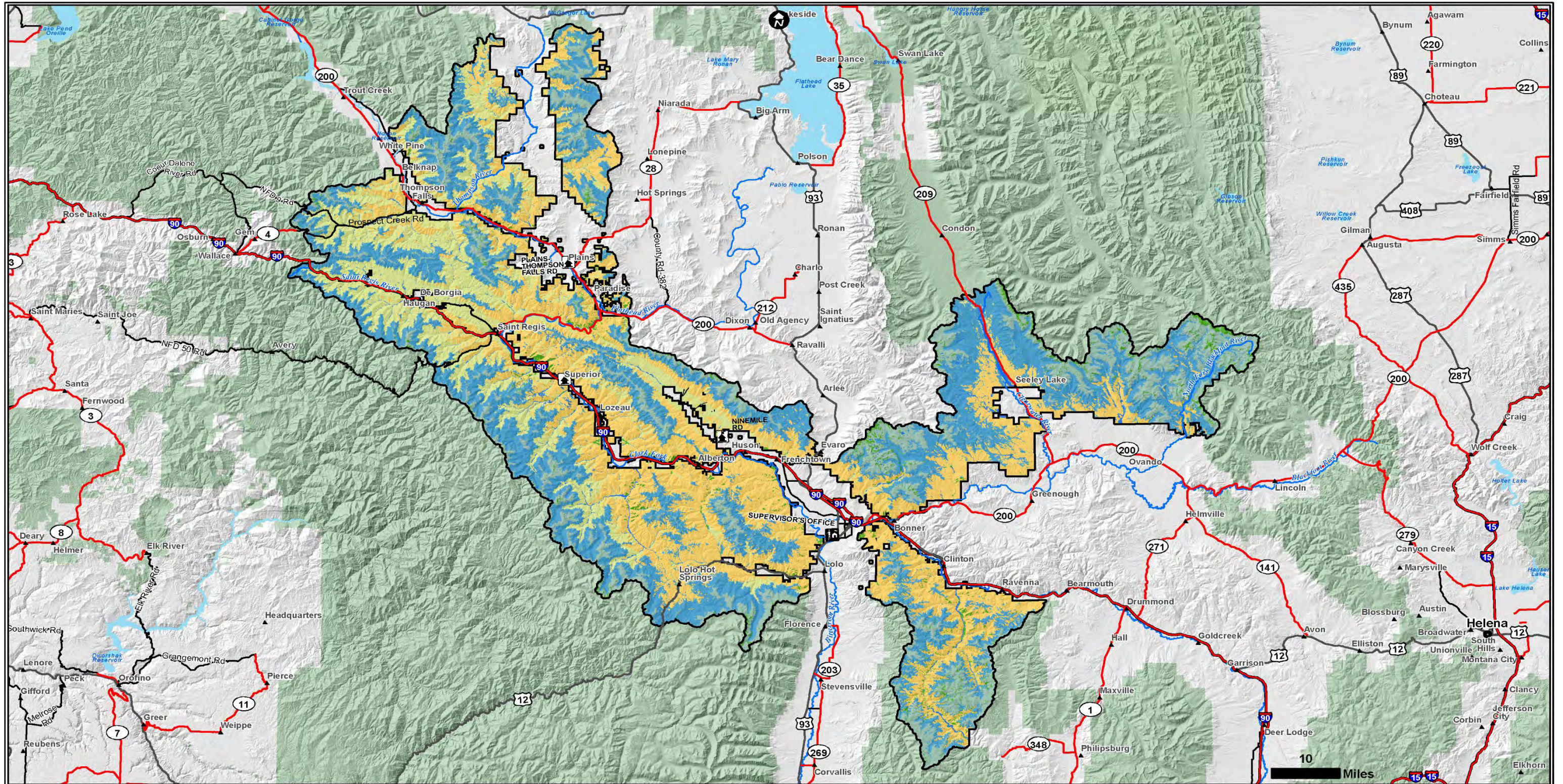
Lolo National Forest Land Management Plan Assessment-Range improvements, range vegetation treatment, and range allotment status

■ CORRAL	▲ HANDLING FACILITY	● WATER SYSTEM	+++ FENCE	⚡ HANDLING FACILITY	~ WATER SYSTEM	■ Grazing	■ Active	■ Closed	■ Vacant
----------	---------------------	----------------	-----------	---------------------	----------------	-----------	----------	----------	----------

Other map features

● Major Cities	▲ Towns	⚡ Interstate Highway	⚡ State Highway	⚡ US Highway	
□ Lolo National Forest Admin Boundary	■ Other National Forest Administrative Areas	■ Forest Service	■ Non-Forest Service	~ Stream/River	■ Lake/Pond

Figure 1-26: Region 1 Broad-level Potential Vegetation Groupings ([back to list of figures](#))



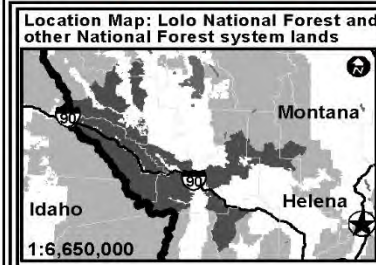
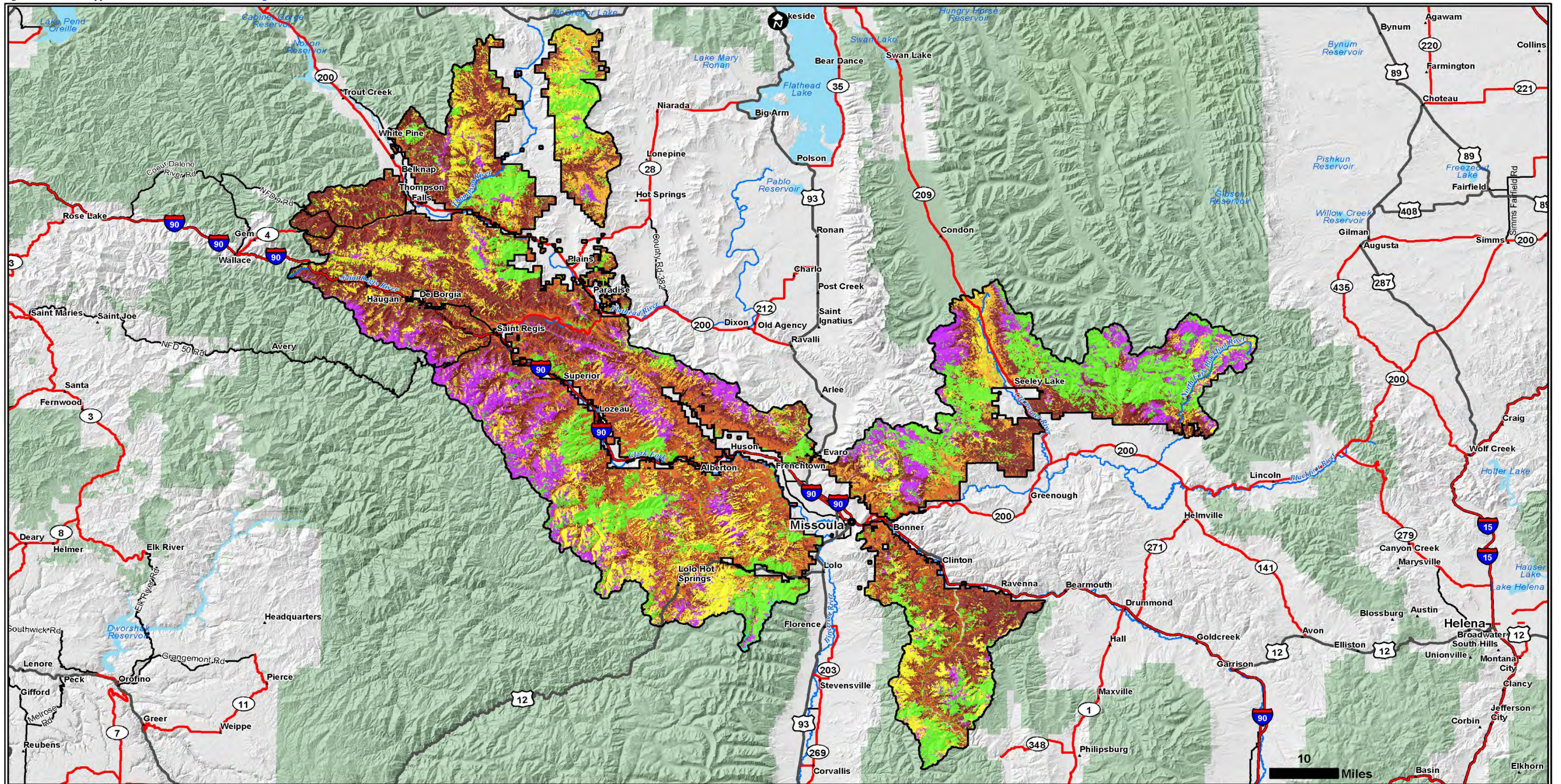
Lolo National Forest Land Management Plan Assessment-Region 1 Broad-level Potential Vegetation Groupings

 Cool Moist	 Cold	 Warm Moist	 Warm Dry	 Wetland/Riparian/Water	 Non-forest
--	--	---	--	--	---

Other map features

 Major Cities	 Towns	 Interstate Highway	 State Highway	 US Highway	
 Lolo National Forest Admin Boundary	 Other National Forest Administrative Areas	 Forest Service	 Non-Forest Service	 Stream/River	 Lake/Pond

Figure 1-27: Cover Type across the Forest ([back to list of figures](#))



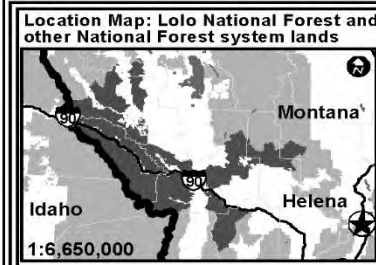
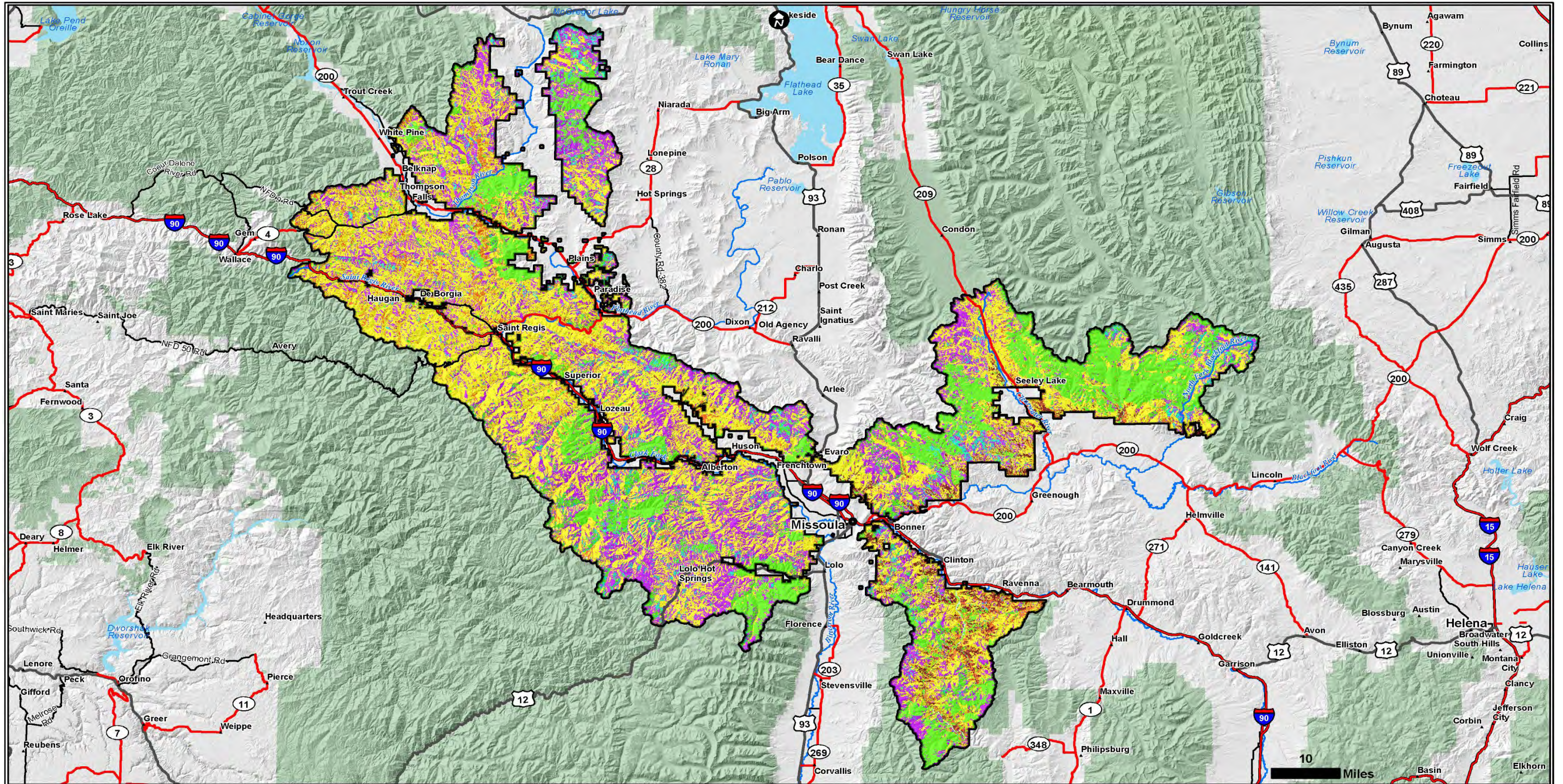
Lolo National Forest Land Management Plan Assessment-Cover type

 Dry Douglas Fir	 Grass/ Forb/ Shrub	 Lodgepole Pine	 Mixed Mesiccon	 Ponderosa Pine	 Spruce Fir	 Whitebark/Subalpine/Larch	 Western Larch/Mixed Conifer
---	--	--	--	--	--	---	---

Other map features

 Major Cities	 Towns	 Interstate Highway	 State Highway	 US Highway	 Local Connecting Road
 Lolo National Forest Administrative Boundary	 Other National Forest Administrative Areas	 Forest Service	 Non-Forest Service	 Stream/River	 Lake/Pond

Figure 1-28: Size Class across the Forest ([back to list of figures](#))



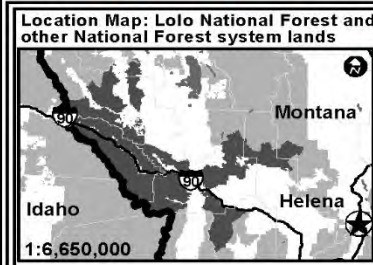
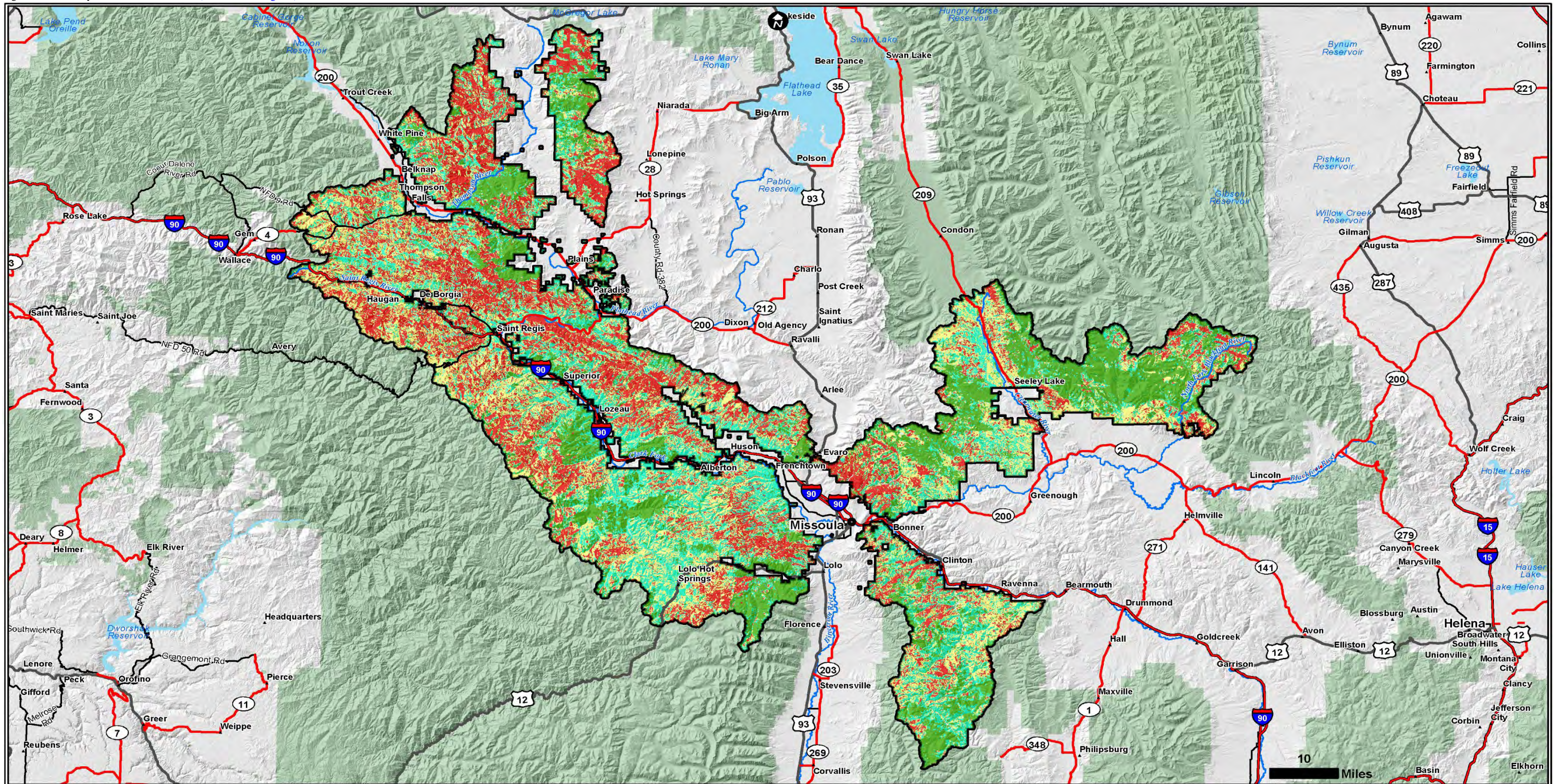
Lolo National Forest Land Management Plan Assessment-Tree Size Description

 DBH 0-4.9" (small)	 DBH 5-9.9" (pole)	 DBH 10-14.9" (medium)	 DBH 15-19.9" (large)	 DBH >= 20" (very large)	 Grass/Forb/Shrub
--	---	---	--	--	--

Other map features

 Major Cities	 Towns	 Interstate Highway	 State Highway	 US Highway	 Local Connecting Road
 Lolo National Forest Administrative Boundary	 Other National Forest Administrative Areas	 Forest Service	 Non-Forest Service	 Stream/River	 Lake/Pond

Figure 1-29: Density Class across the Forest ([back to list of figures](#))



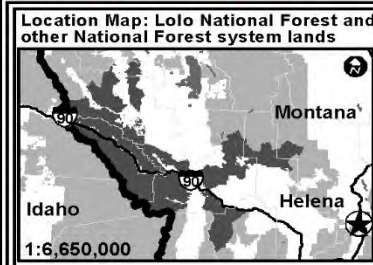
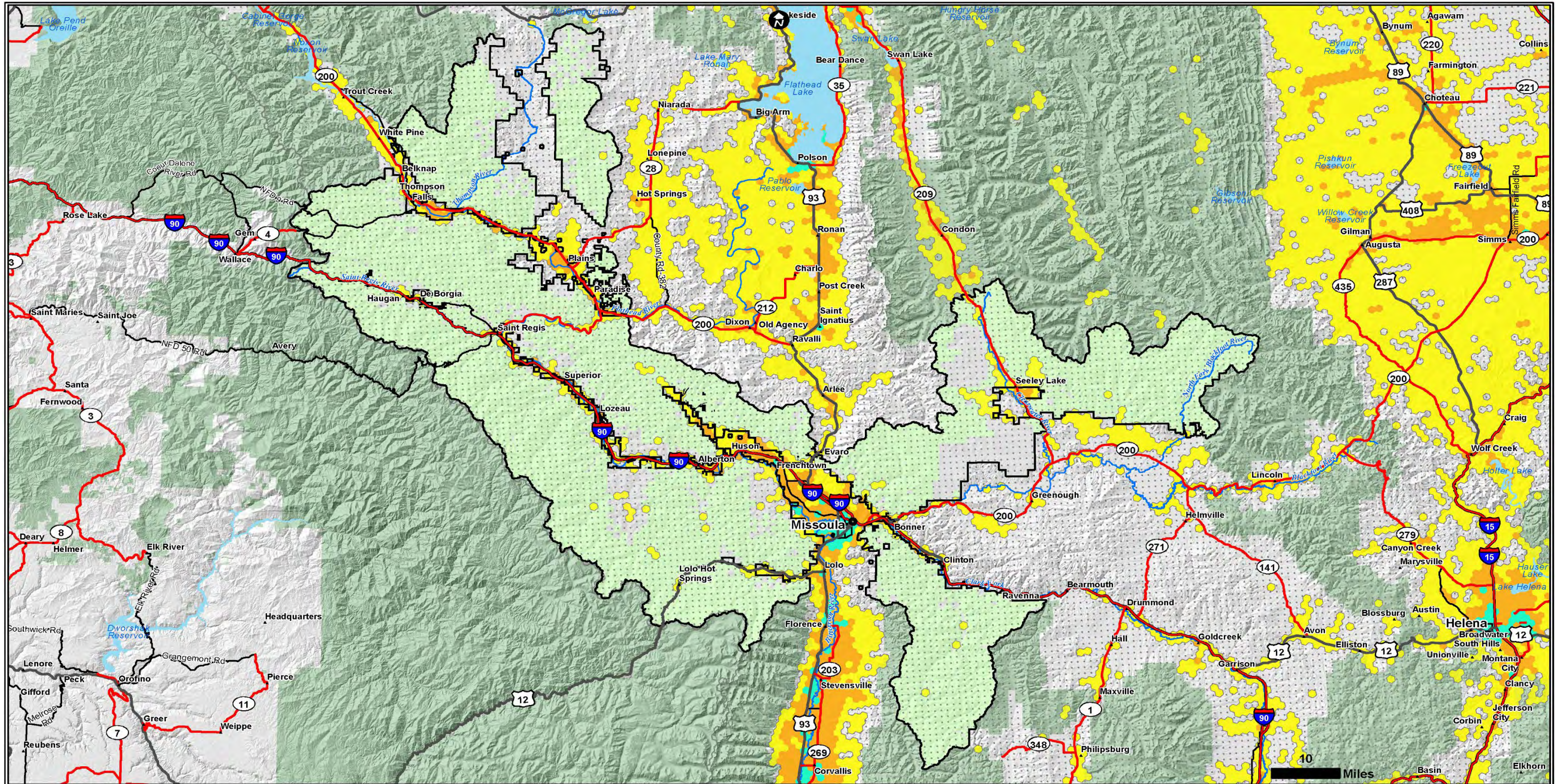
Lolo National Forest Land Management Plan Assessment-Tree Density class

- CTR 10-39.9%, open
- CTR 40-59.9%, medium
- CTR >= 60%, closed
- non-forest

Other map features

- Major Cities
- Towns
- Interstate Highway
- State Highway
- US Highway
- Local Connecting Road
- Lolo National Forest Administrative Boundary
- Other National Forest Administrative Areas
- Forest Service
- Non-Forest Service
- Stream/River
- Lake/Pond

Figure 1-30: Monarch butterfly habitat (back to list of figures)



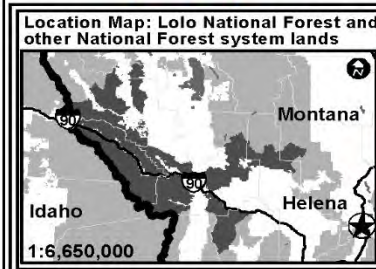
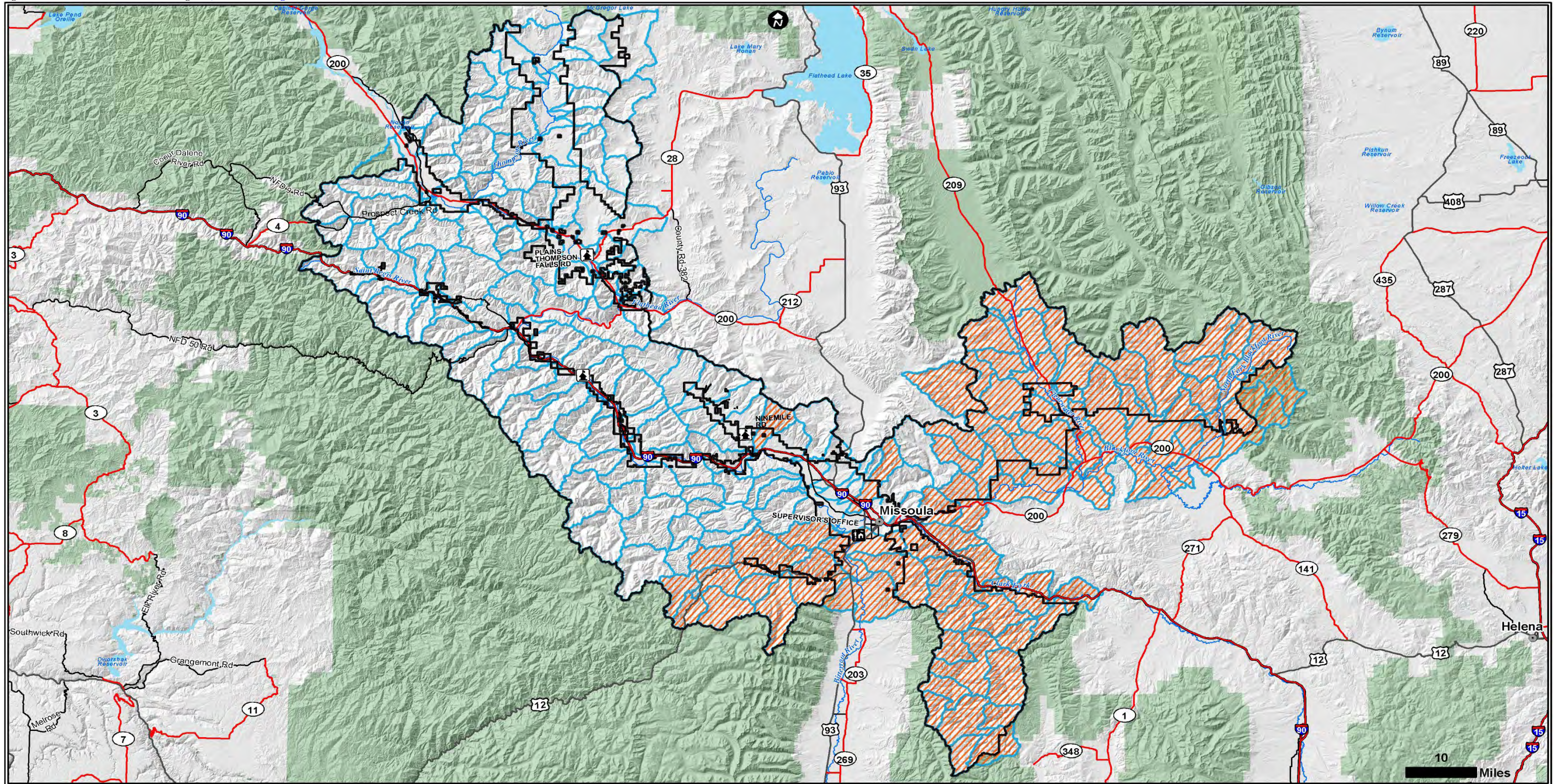
Lolo National Forest Land Management Plan Assessment-Monarch Categorical Model

Generally Unsuitable	Low Suitability	Moderate Suitability	Optimal Suitability
----------------------	-----------------	----------------------	---------------------

Other map features

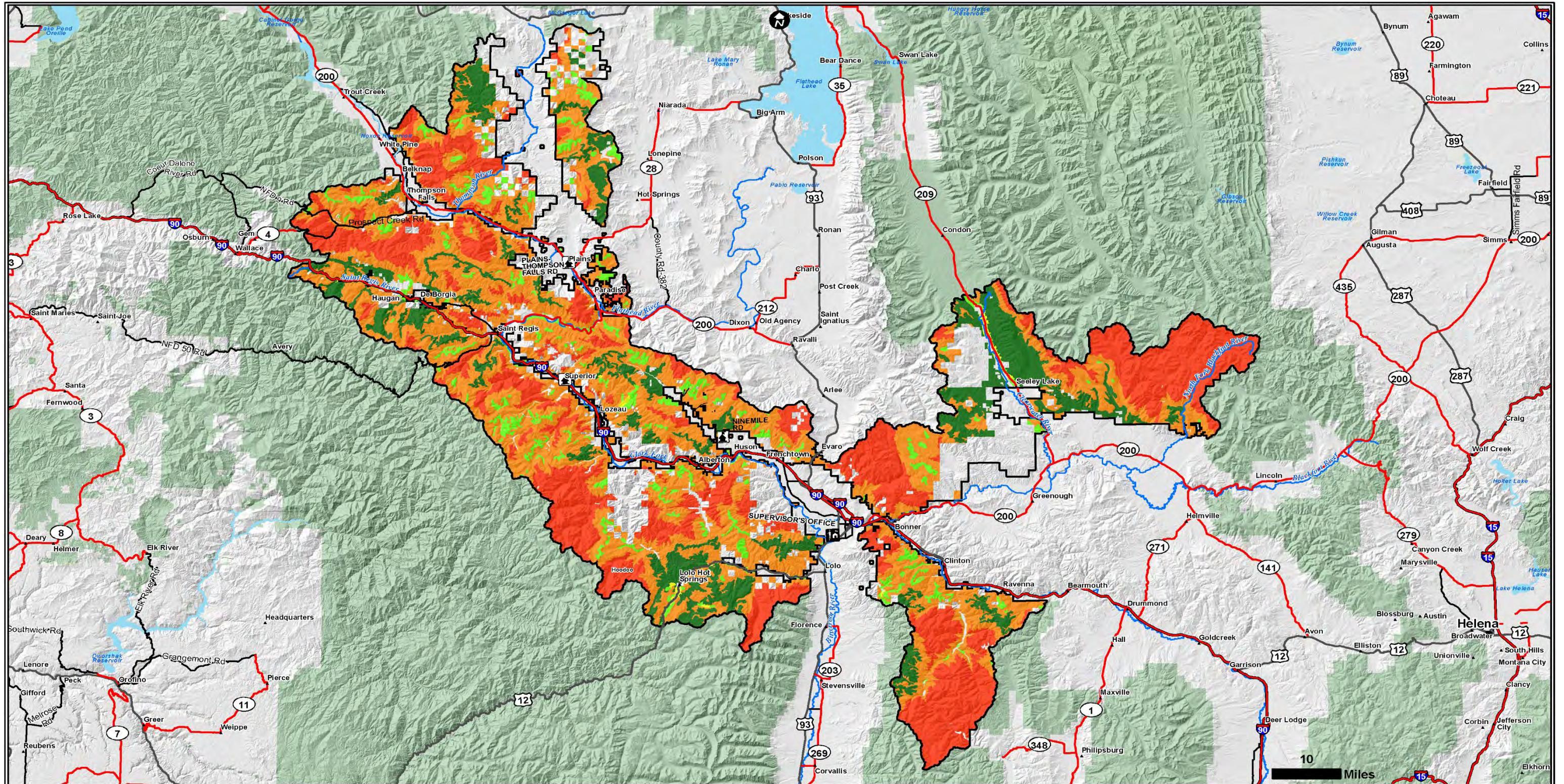
Major Cities	Towns	Interstate Highway	State Highway	US Highway	Local Connecting Road
Lolo National Forest Administrative Boundary	Other National Forest Administrative Areas	Forest Service	Non-Forest Service	Stream/River	Lake/Pond

Figure 1-31: Basins closed to new water rights ([back to list of figures](#))



Lolo National Forest Land Management Plan Assessment-Closed Basins

Closed Basin	6th Code HUC	Major Cities	Towns	Interstate Highway	State Highway	US Highway
Lolo National Forest Admin Boundary	Other National Forest Administrative Areas	Forest Service	Non-Forest Service	Stream/River	Lake/Pond	



Location Map: Lolo National Forest and other National Forest system lands

Lolo National Forest Land Management Plan Assessment-Winter Recreation Opportunity Spectrum Classes

- P-Primitive
- R-Rural
- RN-Roaded Natural
- SPM-Semi-Primitive Motorized
- SPNM-Semi-Primitive Non-Motorized

Other map features

- Major Cities
- Towns
- Interstate Highway
- State Highway
- US Highway
- Lolo National Forest Admin Boundary
- Other National Forest Administrative Areas
- Forest Service
- Non-Forest Service
- Stream/River
- Lake/Pond

End of Map Appendix 1 ([back to list of figures](#))