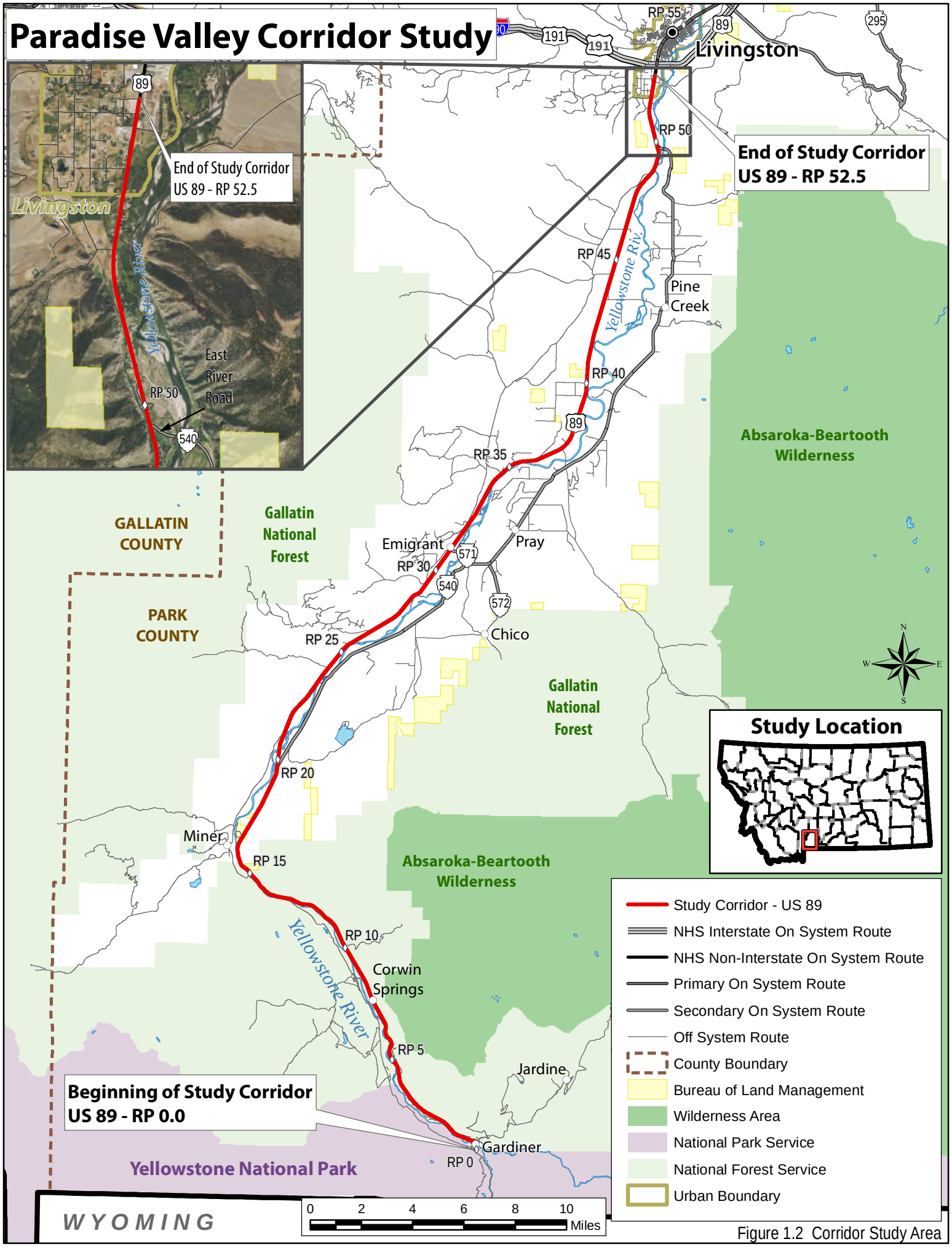
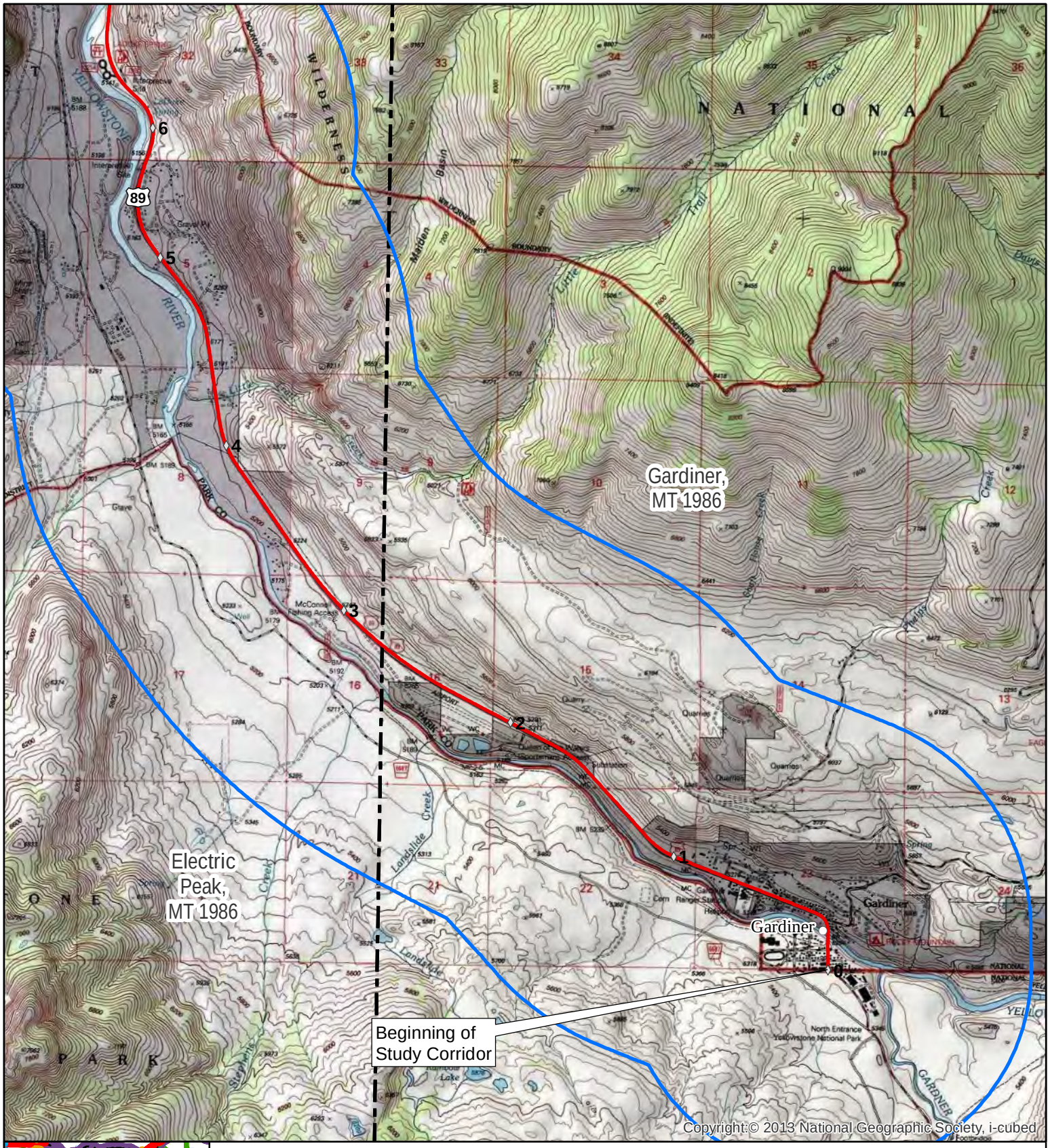
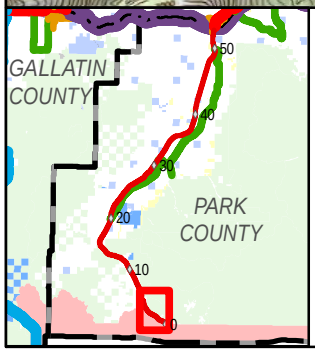


Figure 1.2 Corridor Study Area





Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- 7.5 minute U.S. Geologic Survey quadrangles

0 0.5 1 Miles

N W E S

1:40,590

Figure 1.2.1-1: Topographic Map of Study Area - Reference Markers 0-6

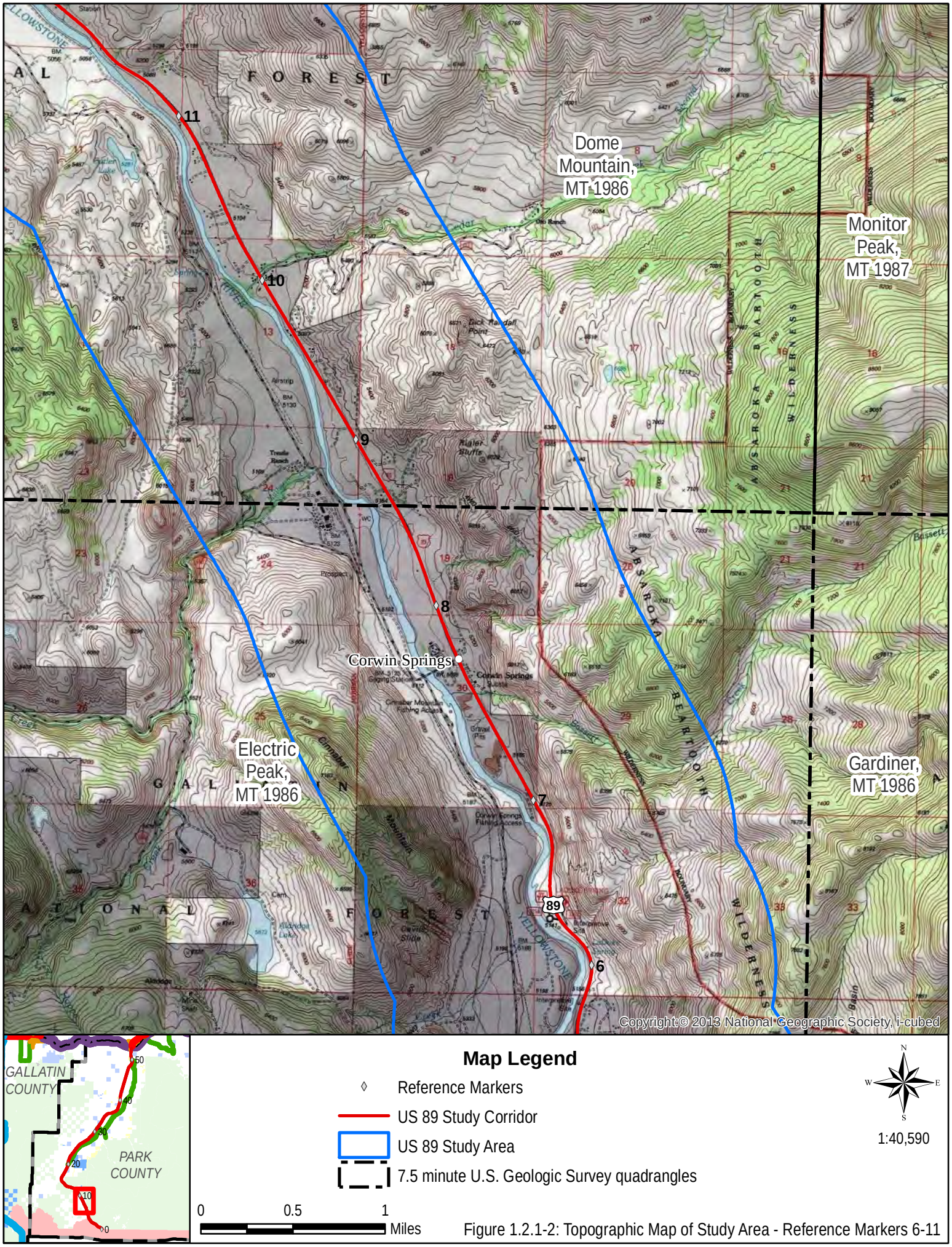


Figure 1.2.1-2: Topographic Map of Study Area - Reference Markers 6-11

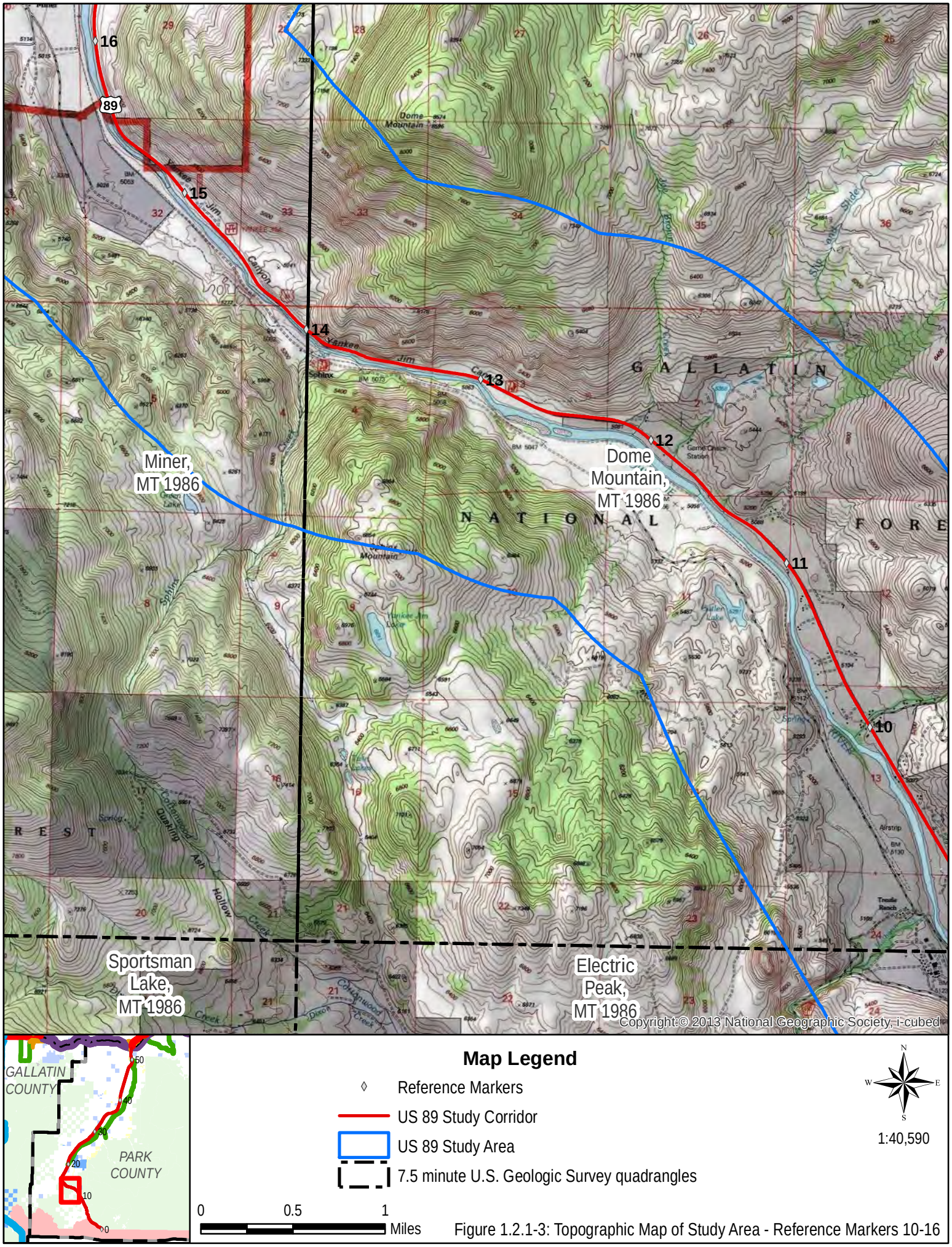
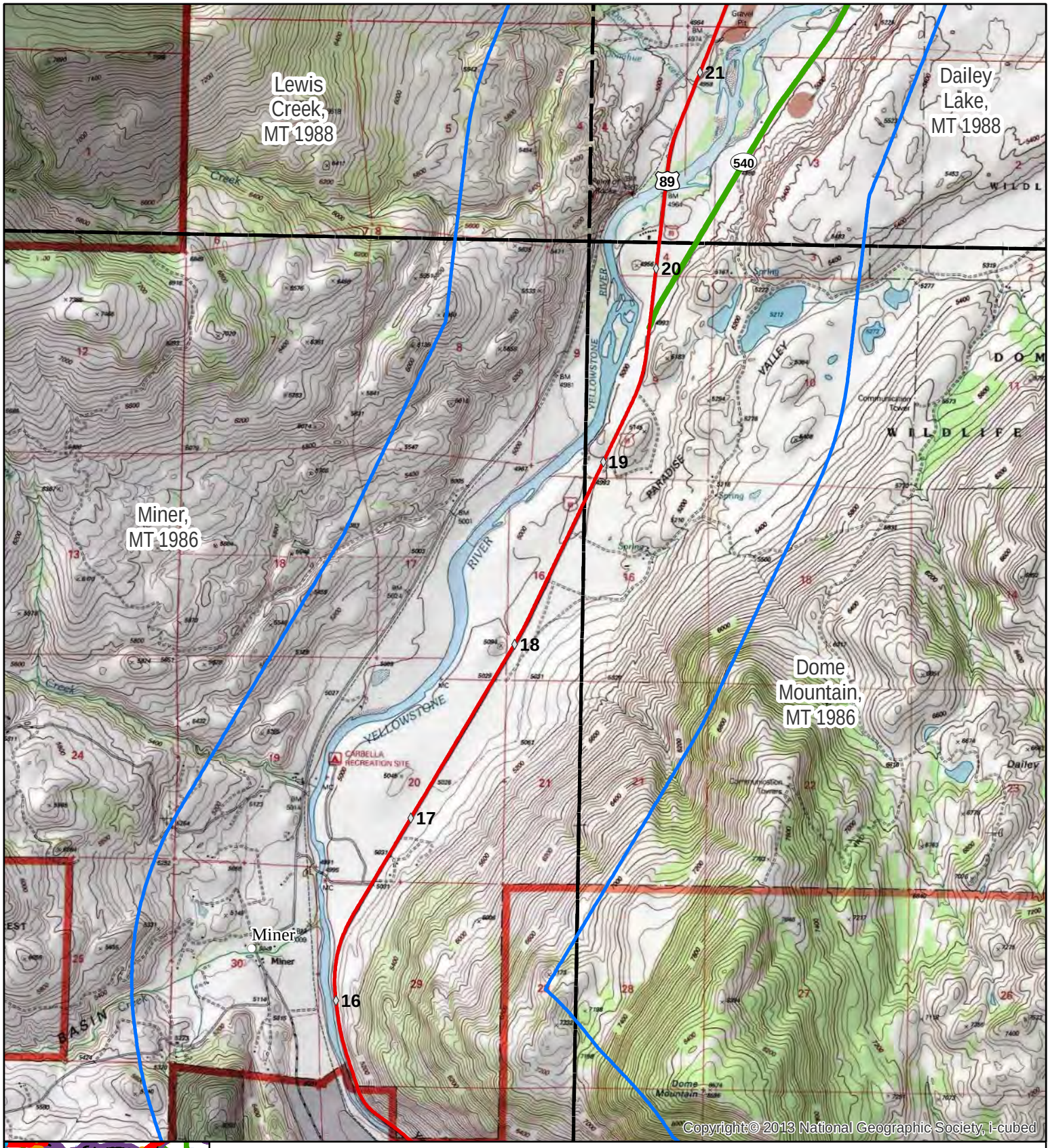
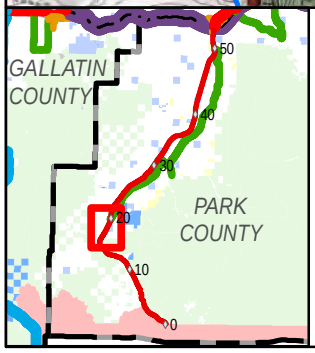


Figure 1.2.1-3: Topographic Map of Study Area - Reference Markers 10-16





Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- 7.5 minute U.S. Geologic Survey quadrangles

0 0.5 1 Miles

1:40,590

Figure 1.2.1-4: Topographic Map of Study Area - Reference Markers 16-21

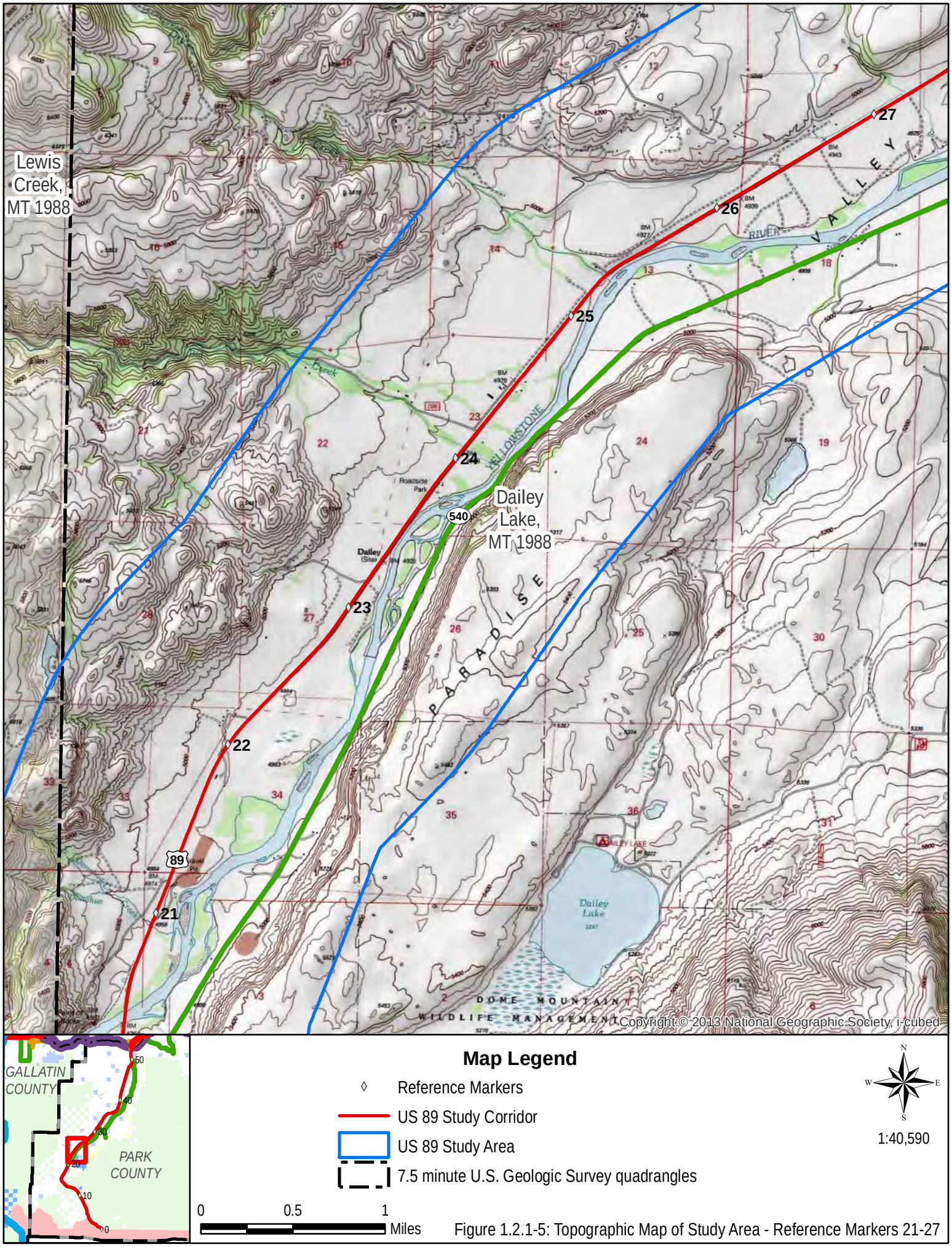


Figure 1.2.1-5: Topographic Map of Study Area - Reference Markers 21-27

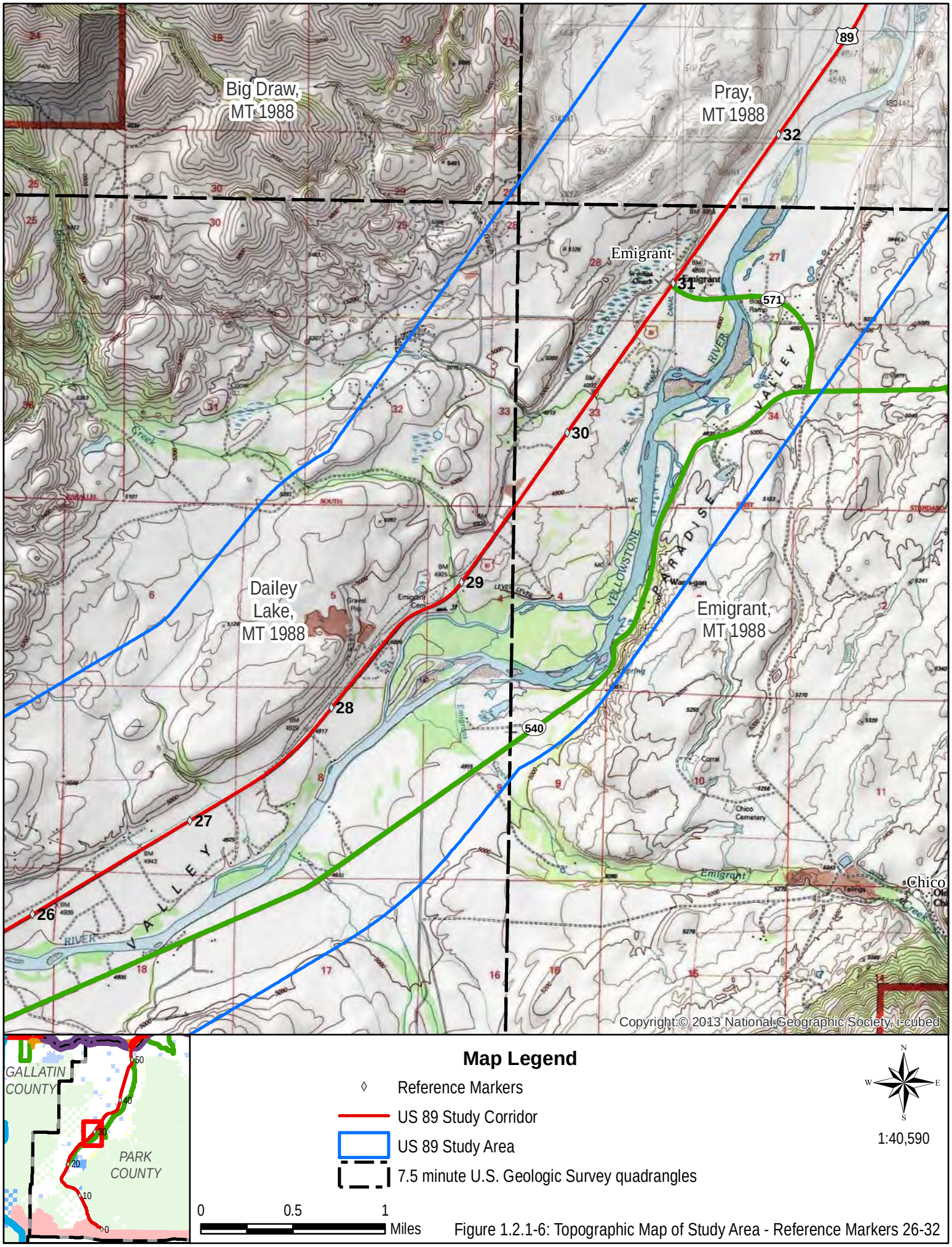


Figure 1.2.1-6: Topographic Map of Study Area - Reference Markers 26-32

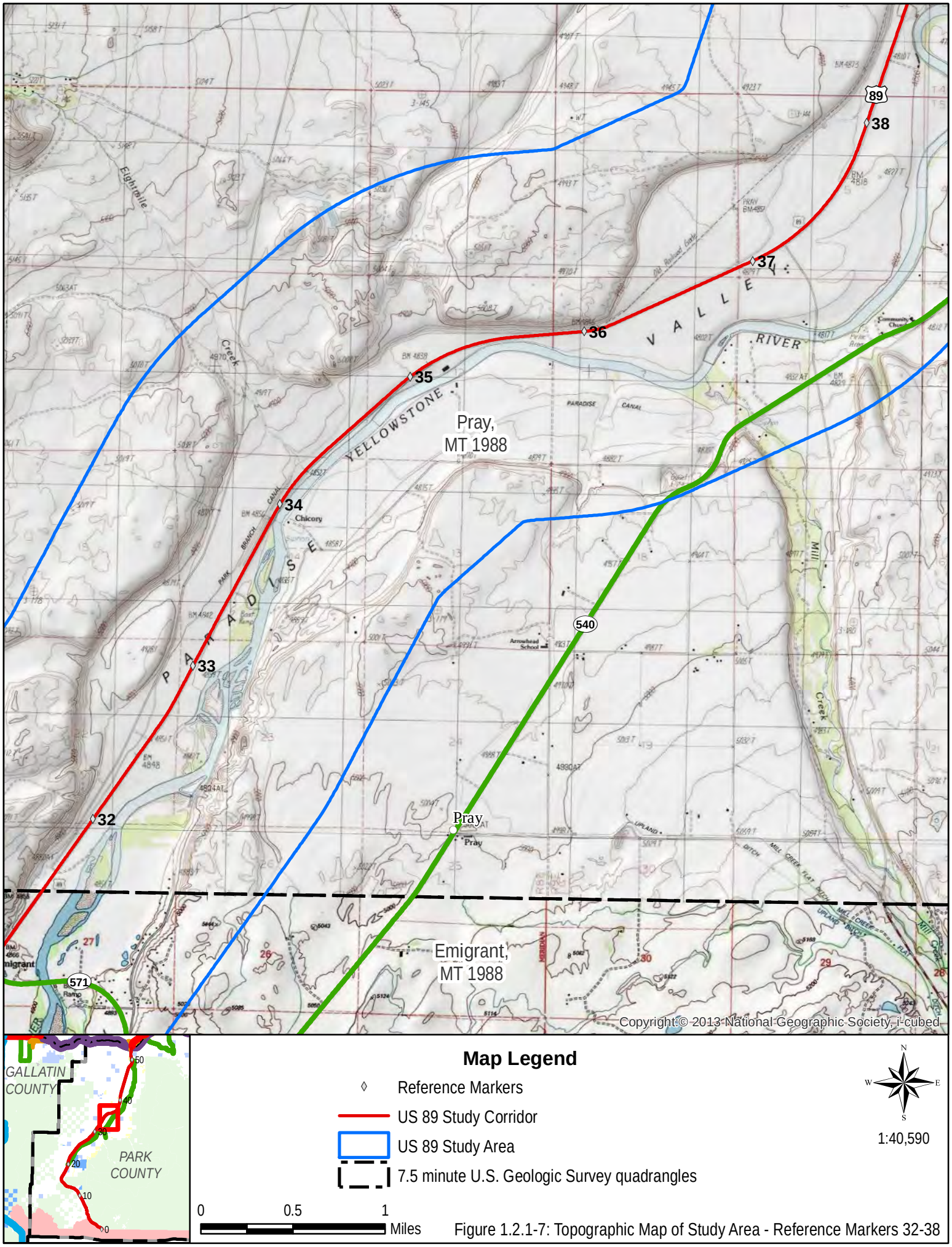
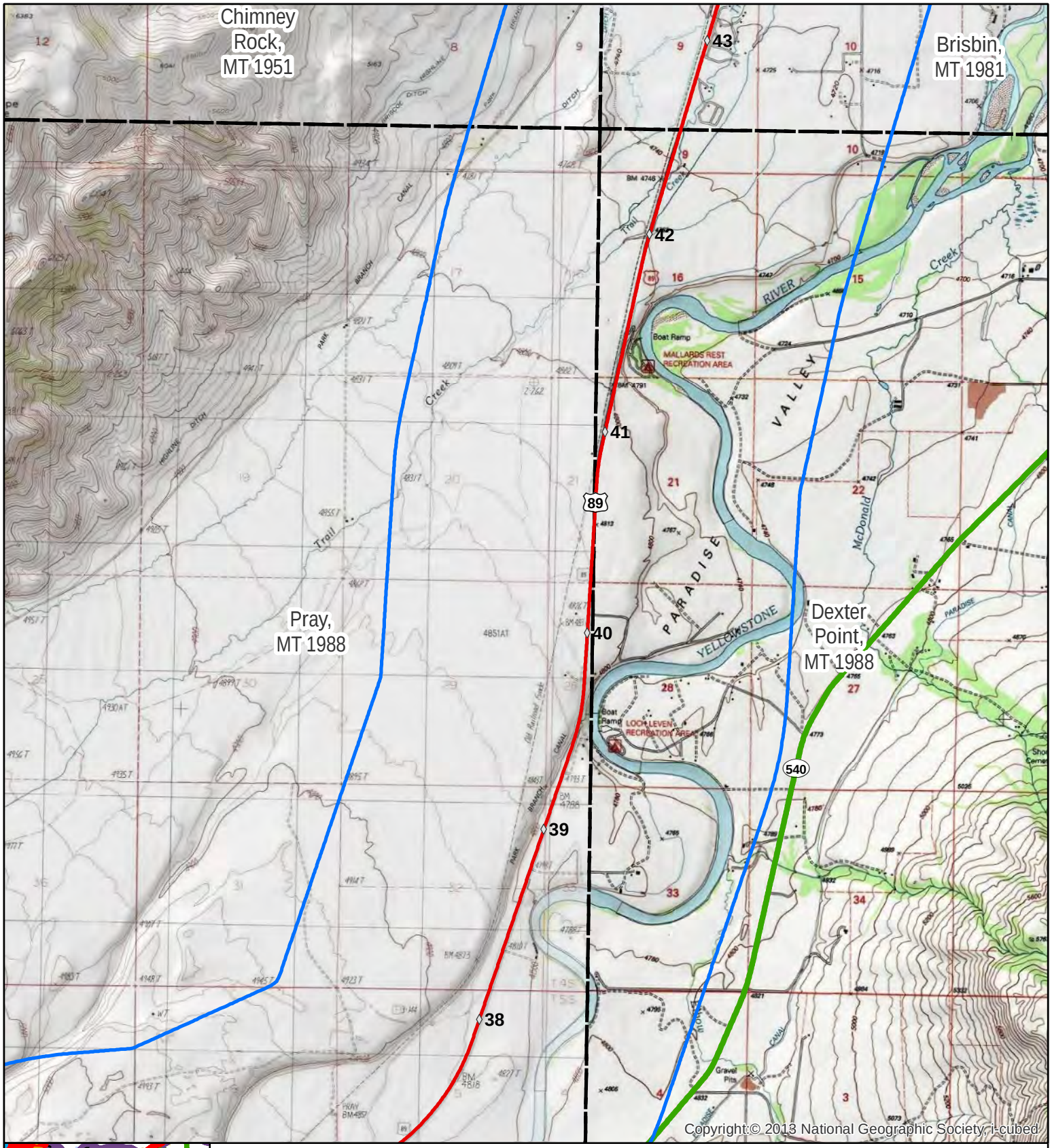
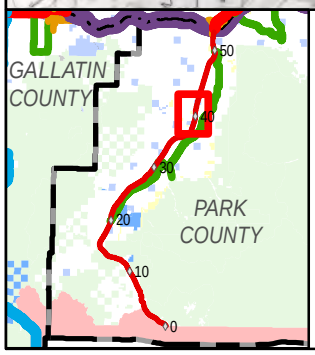


Figure 1.2.1-7: Topographic Map of Study Area - Reference Markers 32-38





Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- 7.5 minute U.S. Geologic Survey quadrangles

0 0.5 1 Miles

N W E S

1:40,590

Figure 1.2.1-8: Topographic Map of Study Area - Reference Markers 38-43

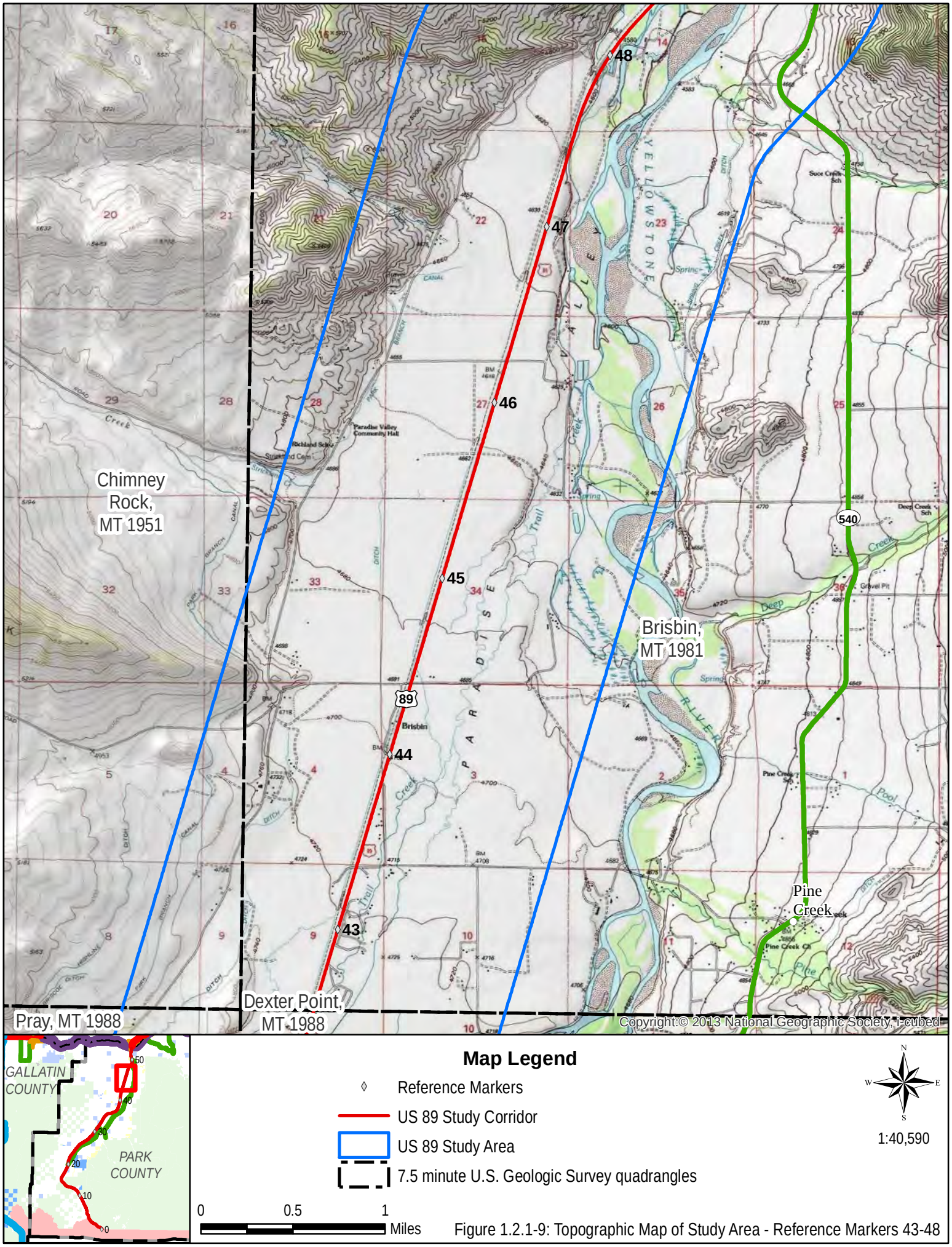


Figure 1.2.1-9: Topographic Map of Study Area - Reference Markers 43-48

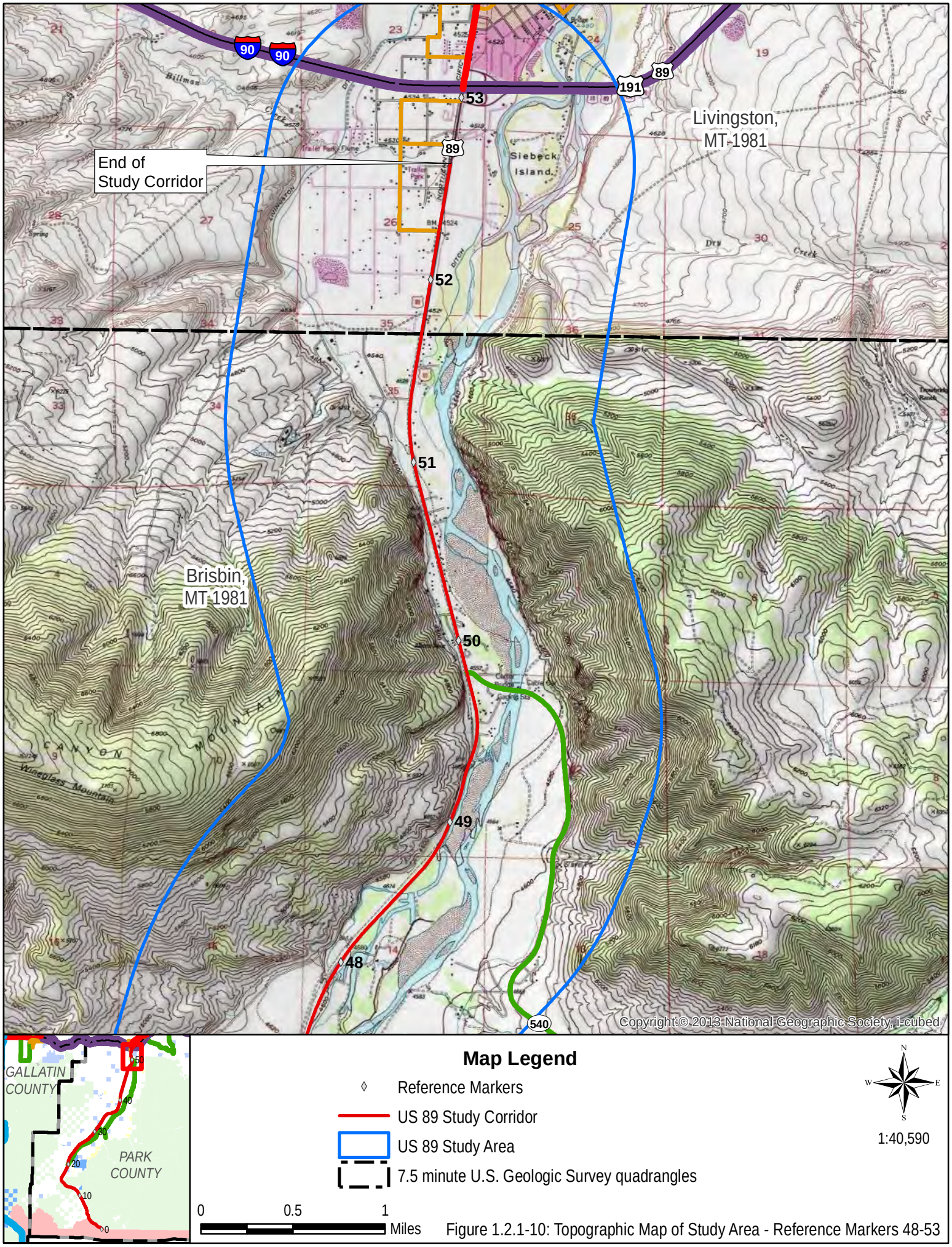


Figure 1.2.1-10: Topographic Map of Study Area - Reference Markers 48-53

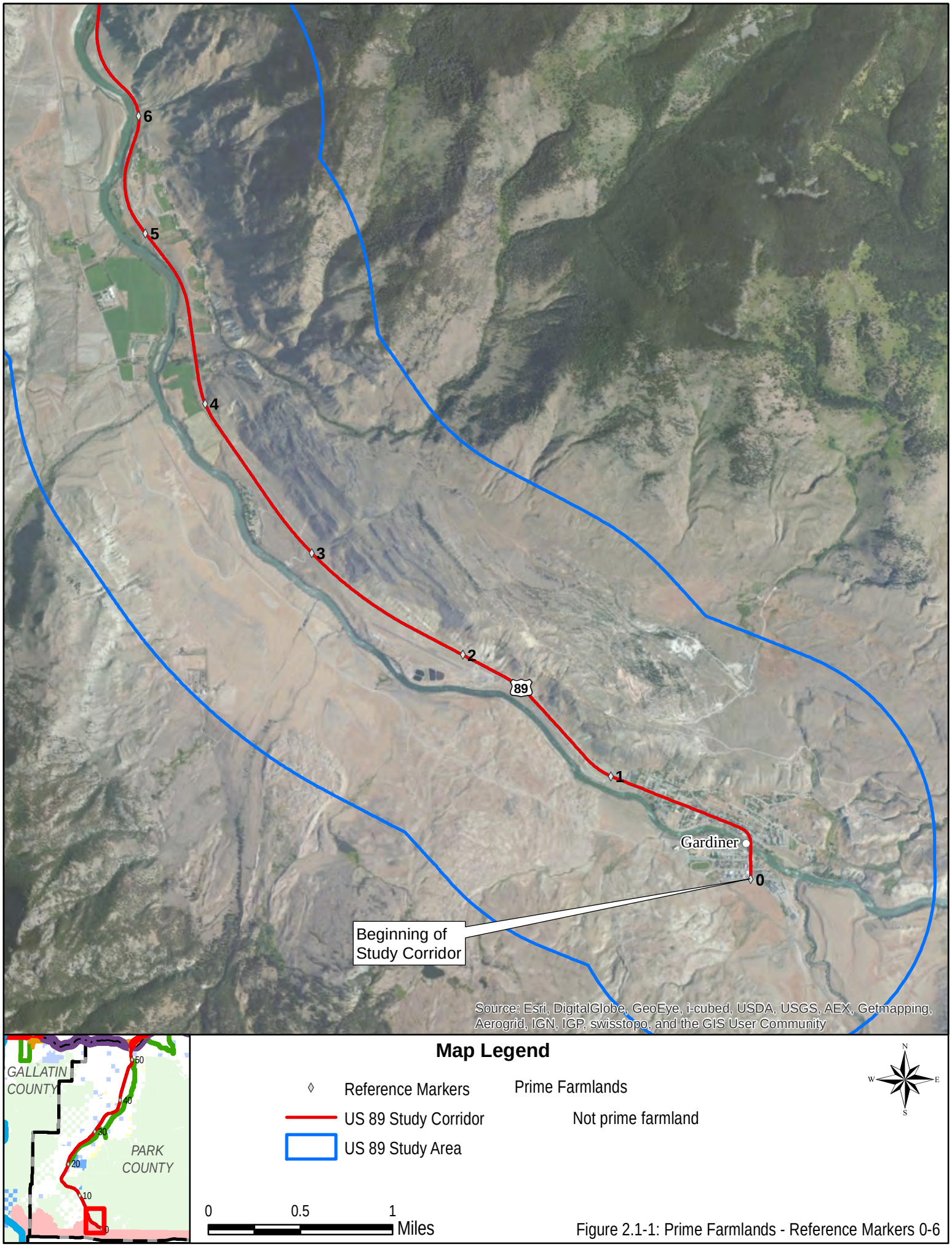


Figure 2.1-1: Prime Farmlands - Reference Markers 0-6

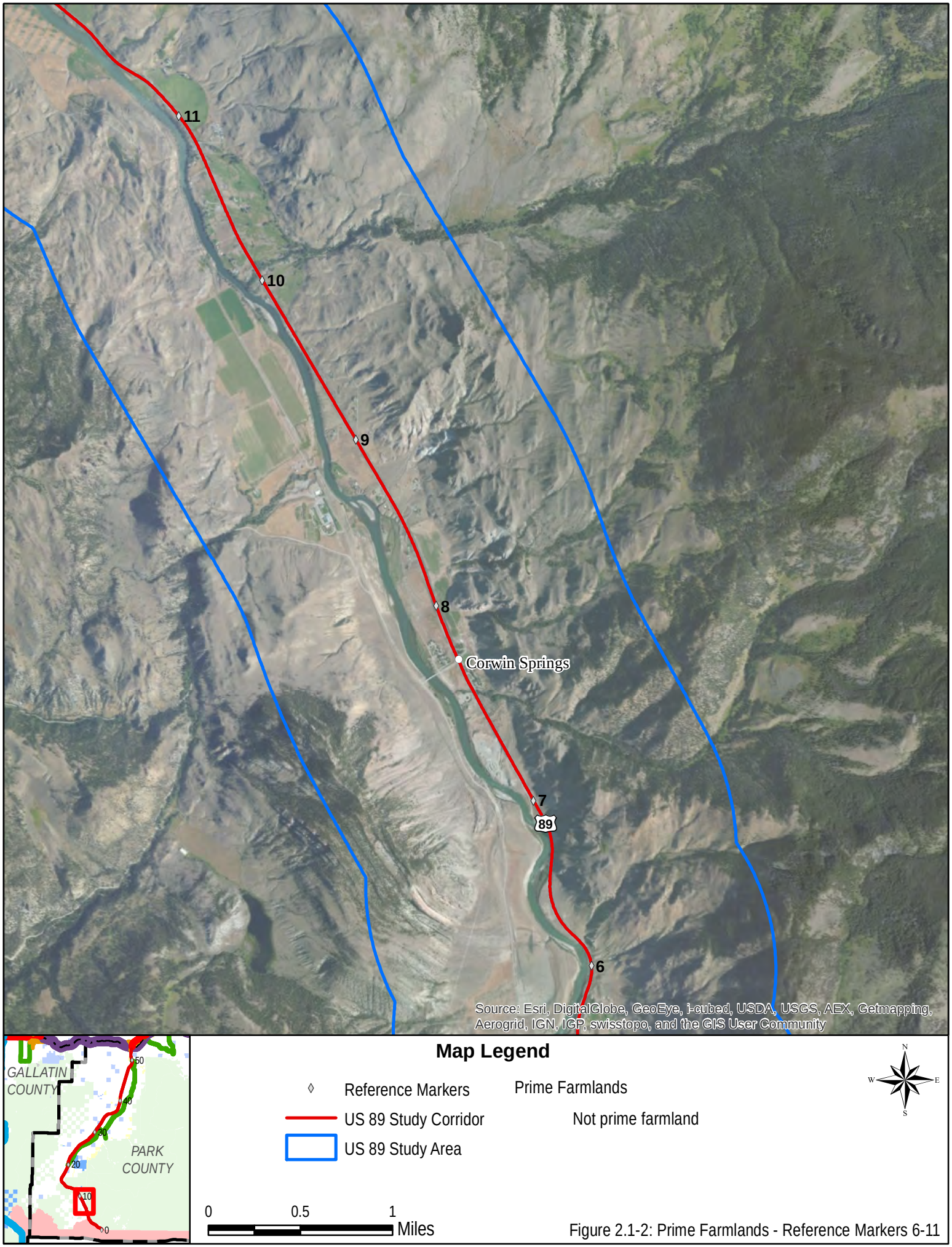
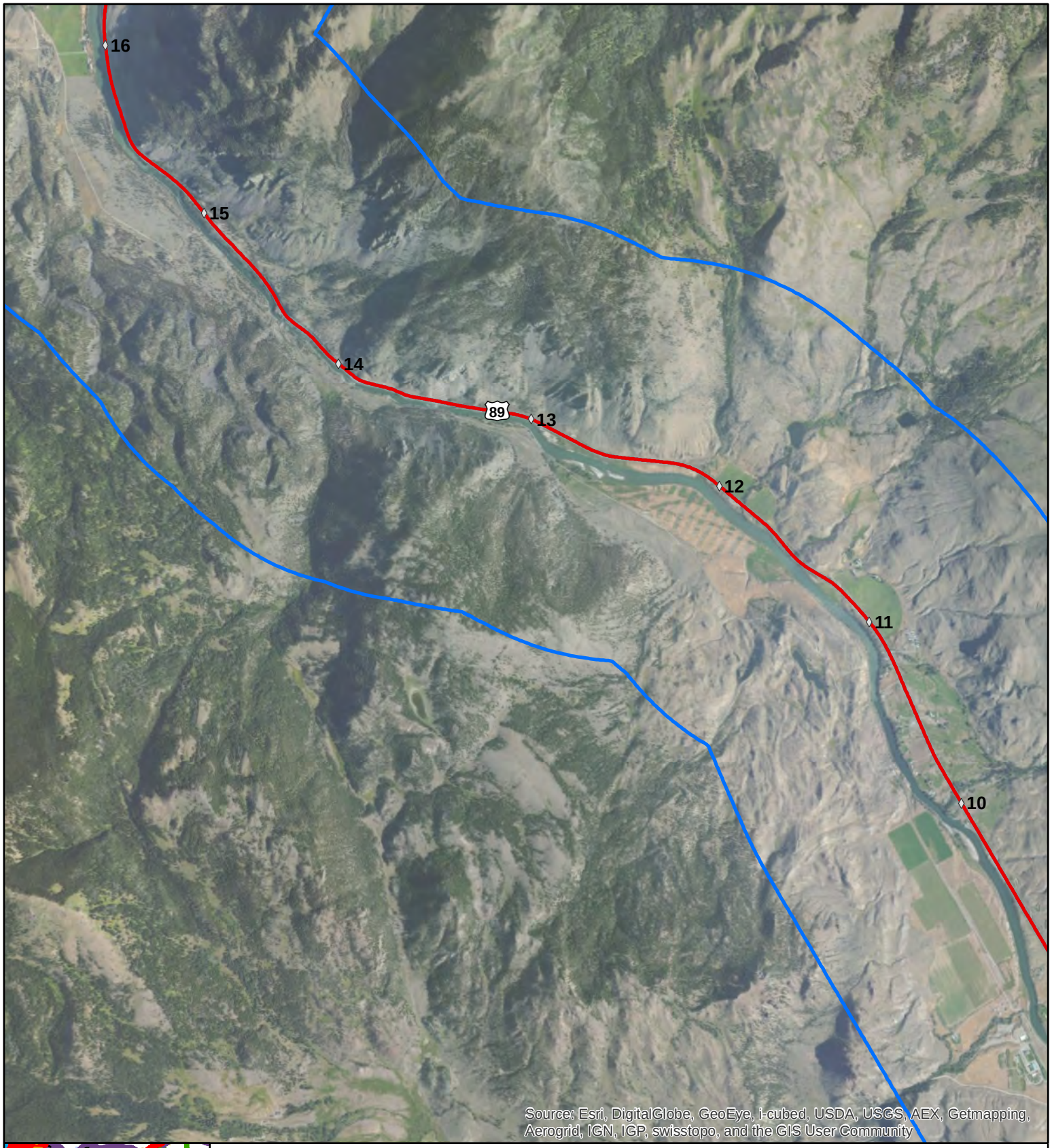
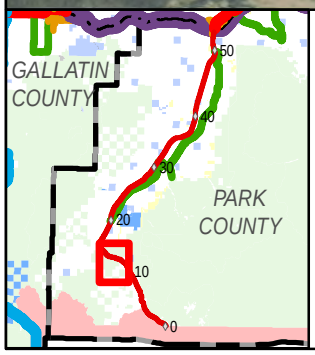


Figure 2.1-2: Prime Farmlands - Reference Markers 6-11





Map Legend

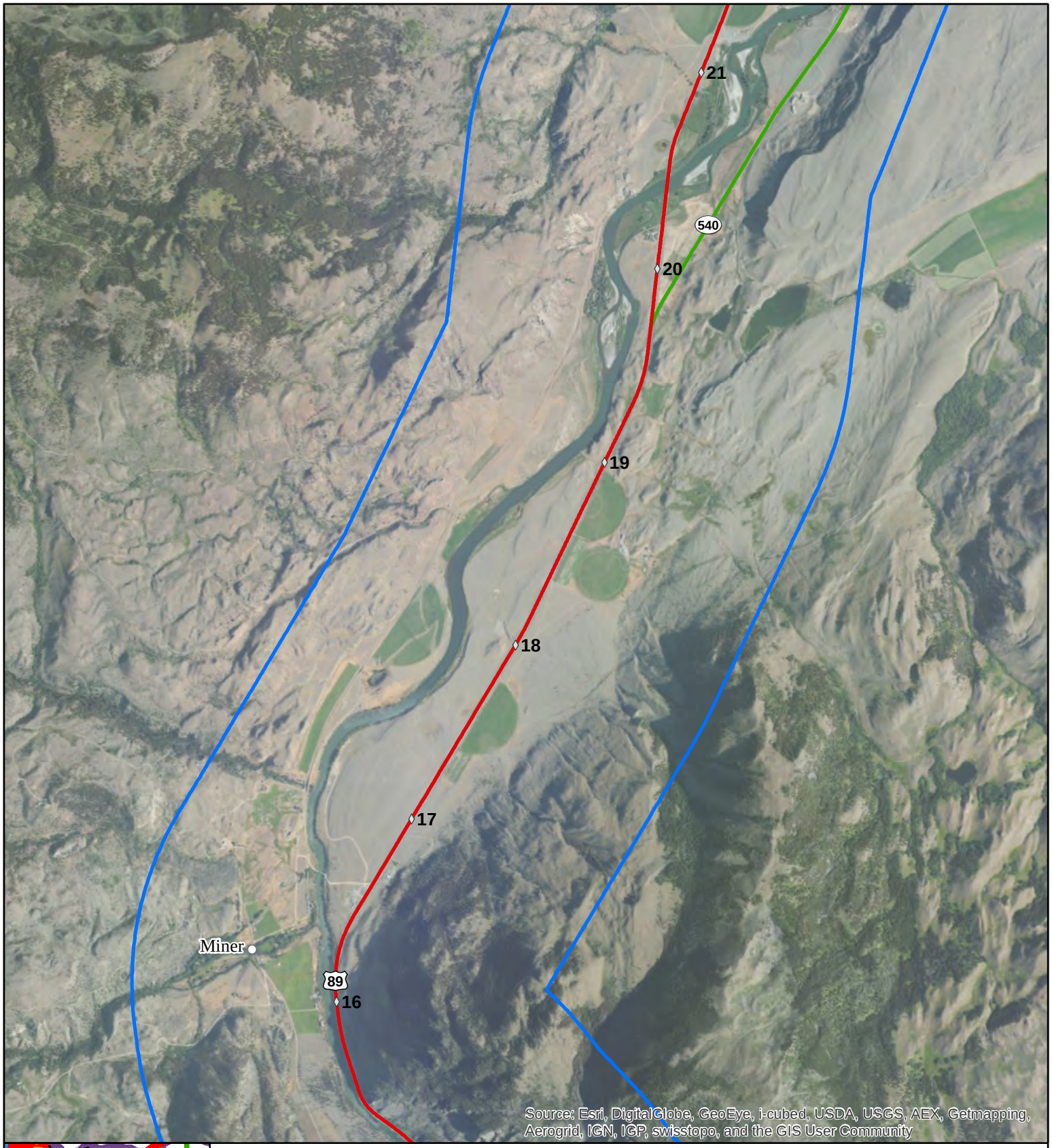
- Reference Markers
- US 89 Study Corridor
- US 89 Study Area

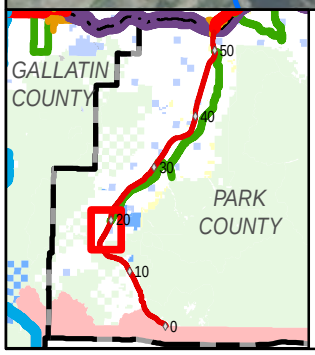
Prime Farmlands

Not prime farmland

0 0.5 1 Miles

Figure 2.1-3: Prime Farmlands - Reference Markers 10-16





Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area

Prime Farmlands

Not prime farmland

0 0.5 1 Miles

Figure 2.1-4: Prime Farmlands - Reference Markers 16-21

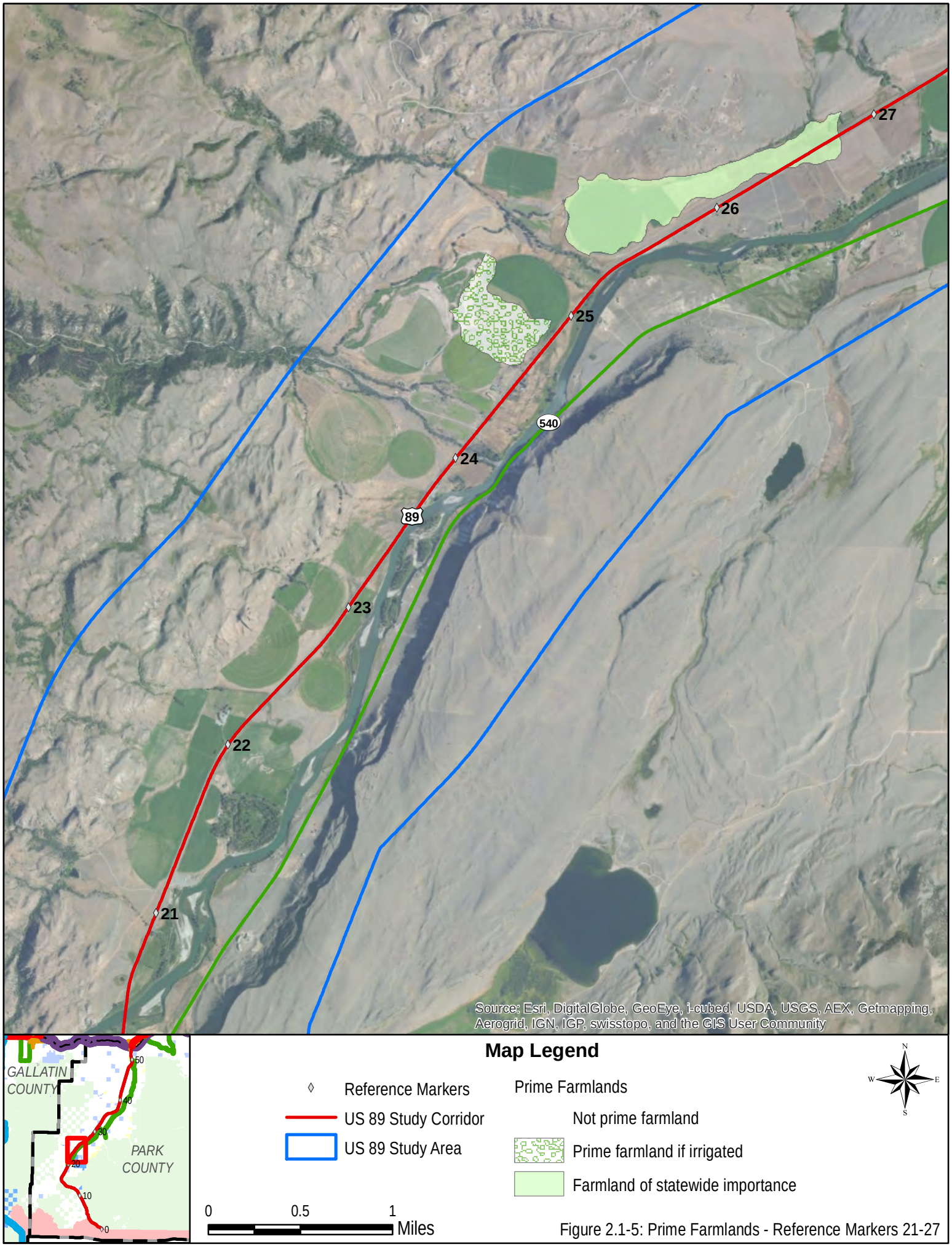


Figure 2.1-5: Prime Farmlands - Reference Markers 21-27

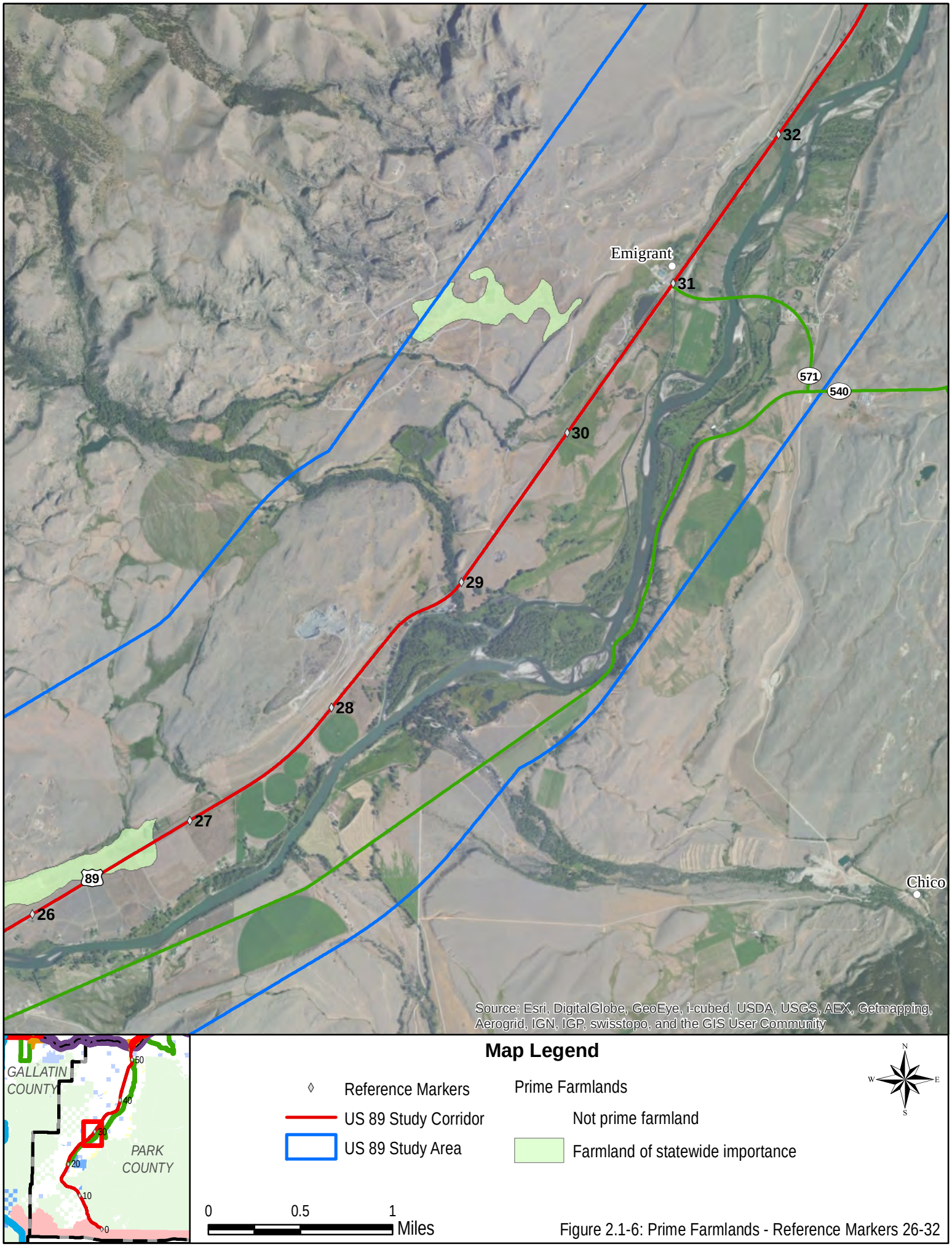
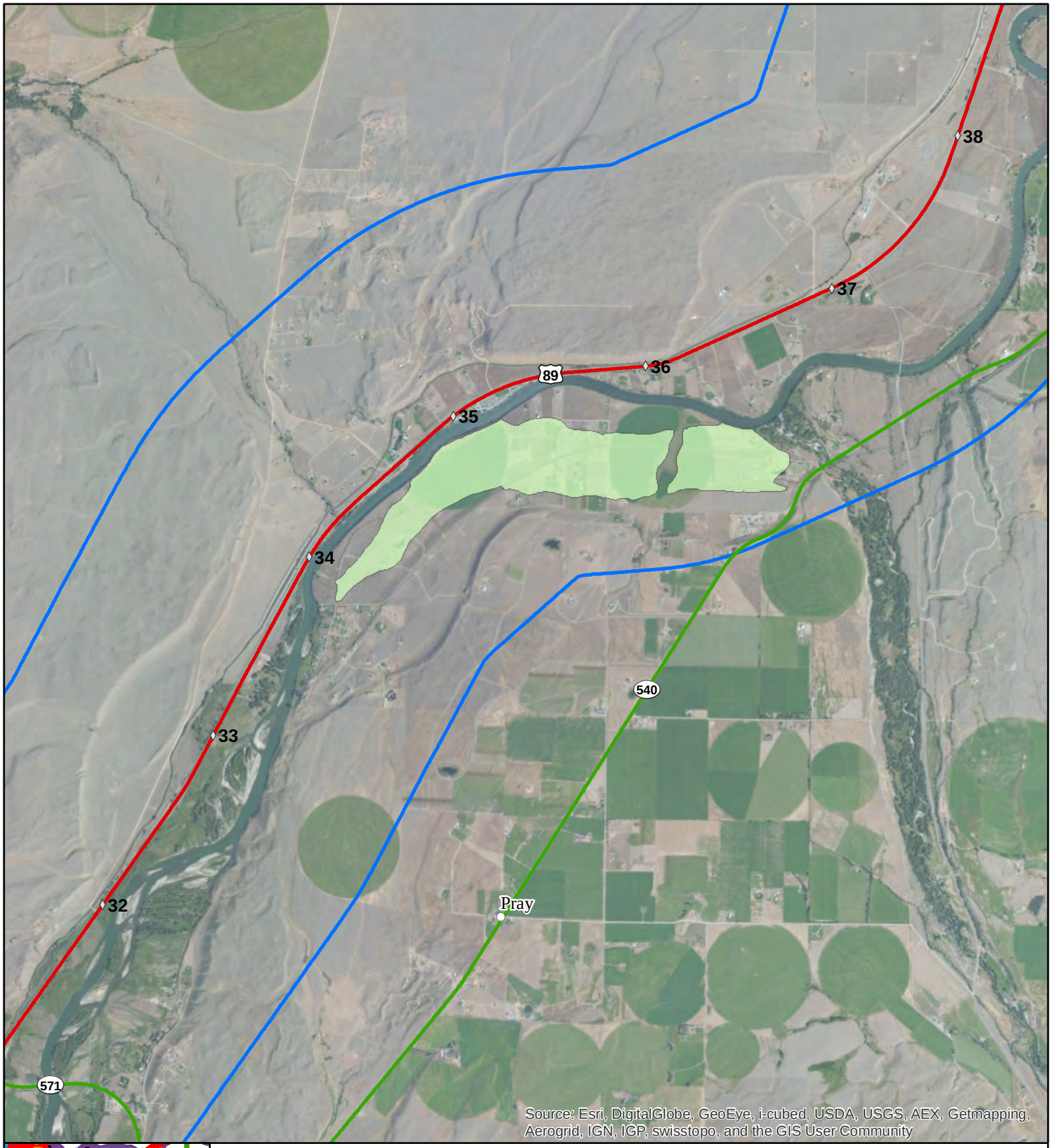
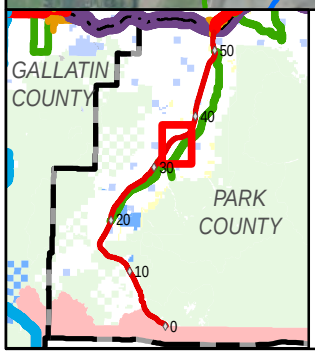


Figure 2.1-6: Prime Farmlands - Reference Markers 26-32





Map Legend

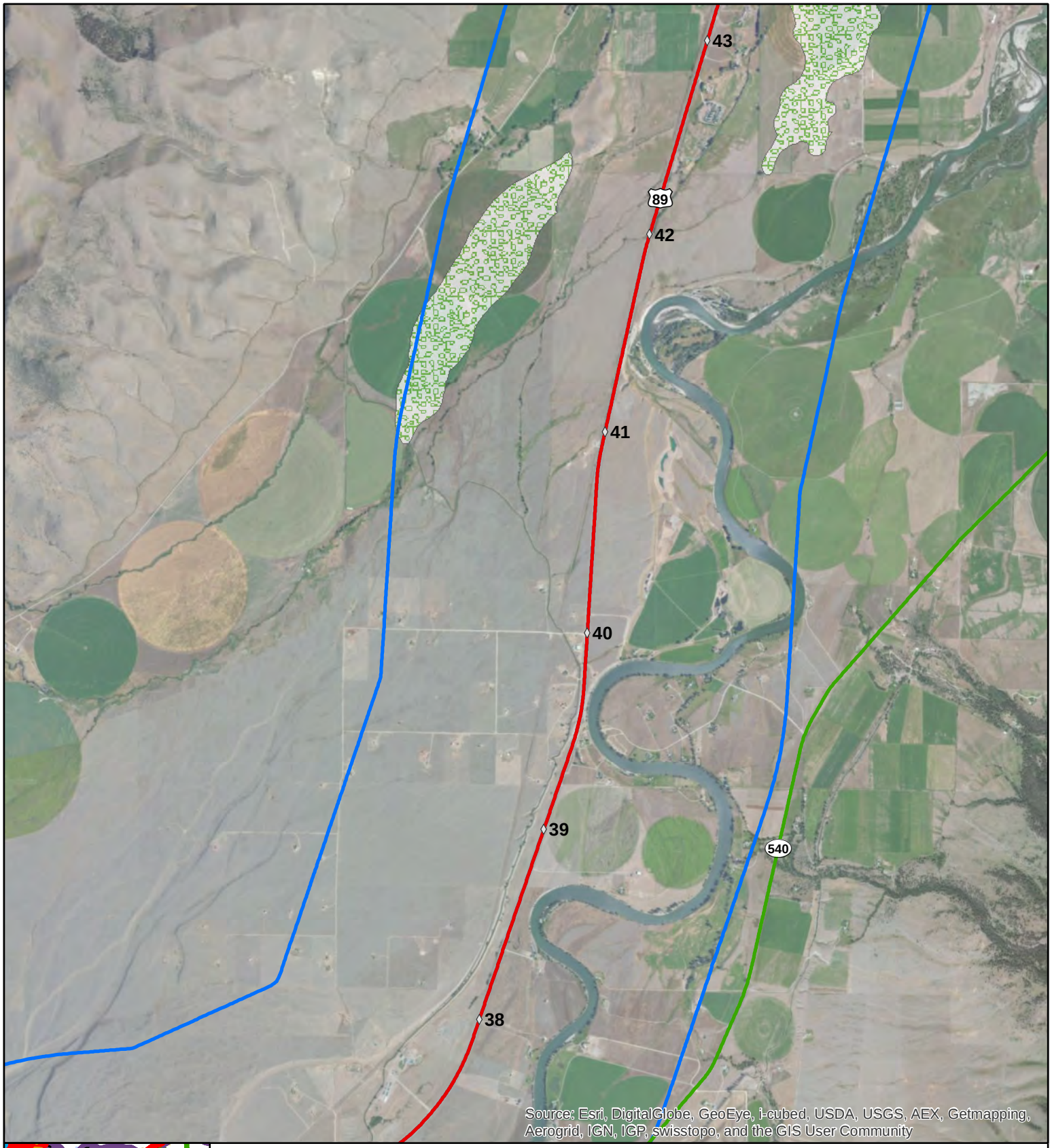
- Reference Markers
- US 89 Study Corridor
- US 89 Study Area

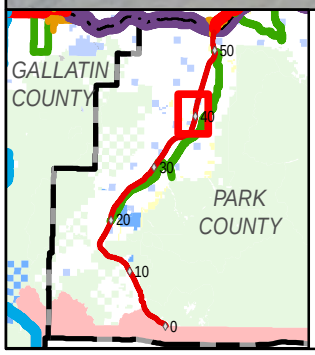
Prime Farmlands

- Not prime farmland
- Farmland of statewide importance

0 0.5 1 Miles

Figure 2.1-7: Prime Farmlands - Reference Markers 32-38





Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area

Prime Farmlands

- Not prime farmland
- Prime farmland if irrigated

0 0.5 1 Miles

Figure 2.1-8: Prime Farmlands - Reference Markers 38-43

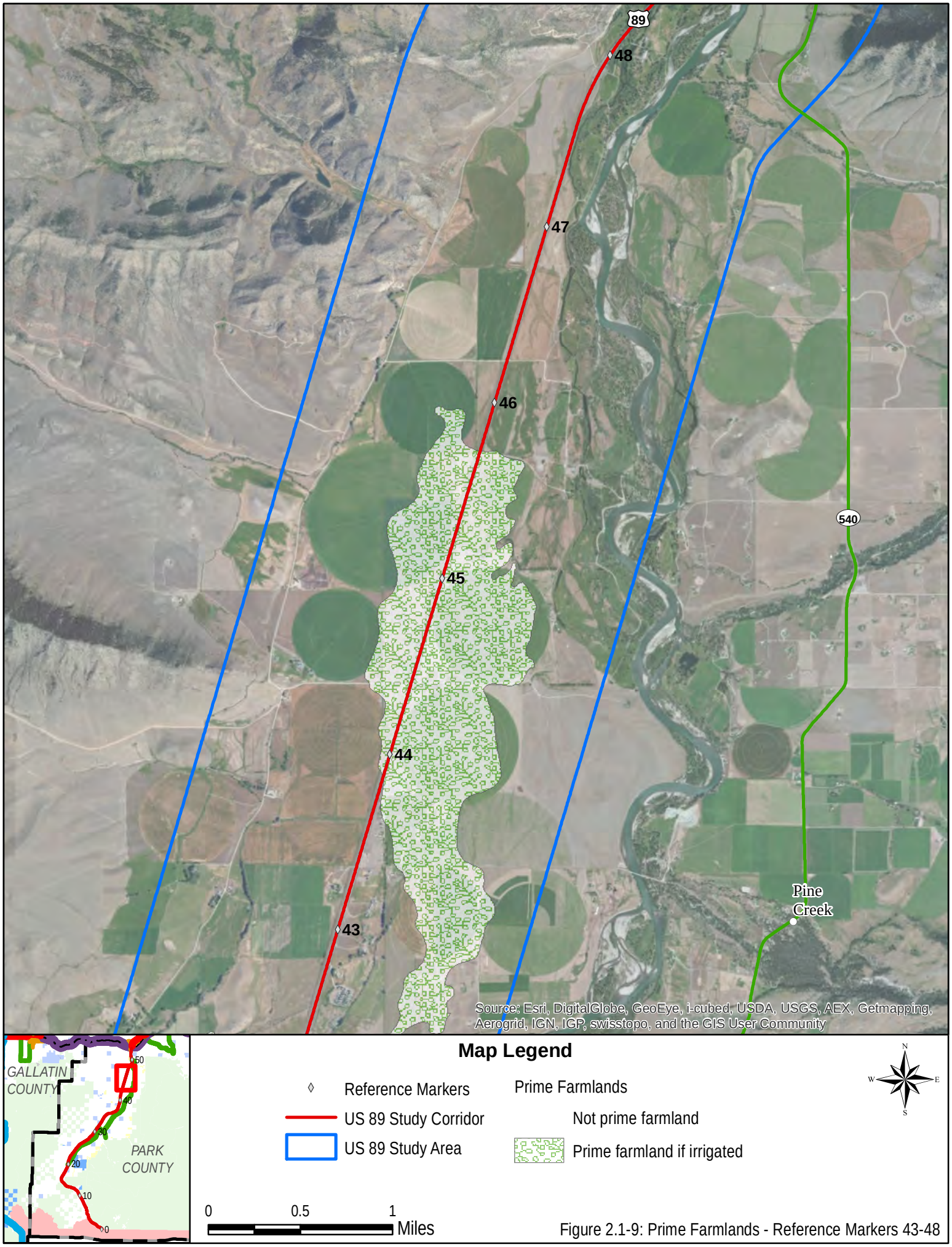


Figure 2.1-9: Prime Farmlands - Reference Markers 43-48

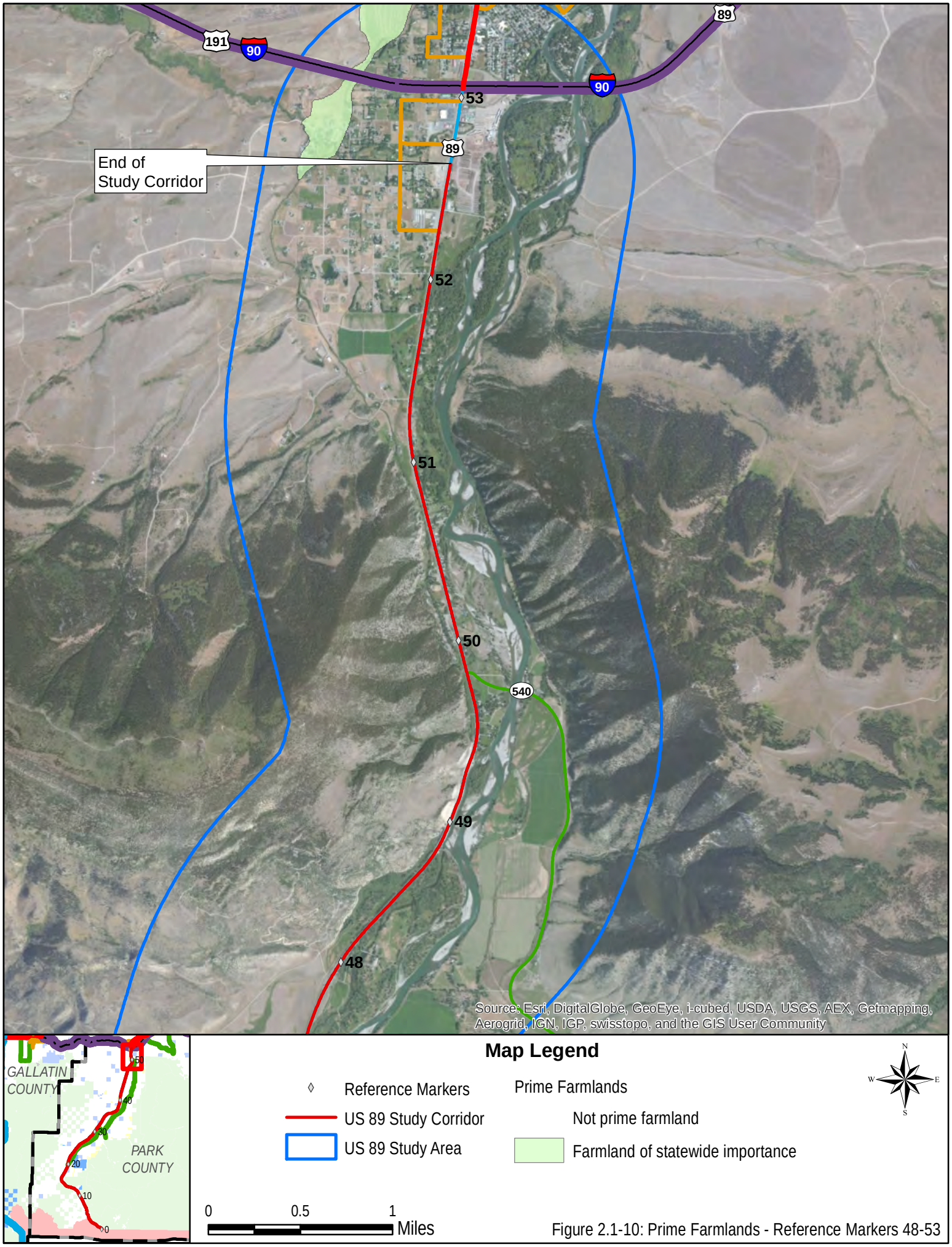


Figure 2.1-10: Prime Farmlands - Reference Markers 48-53

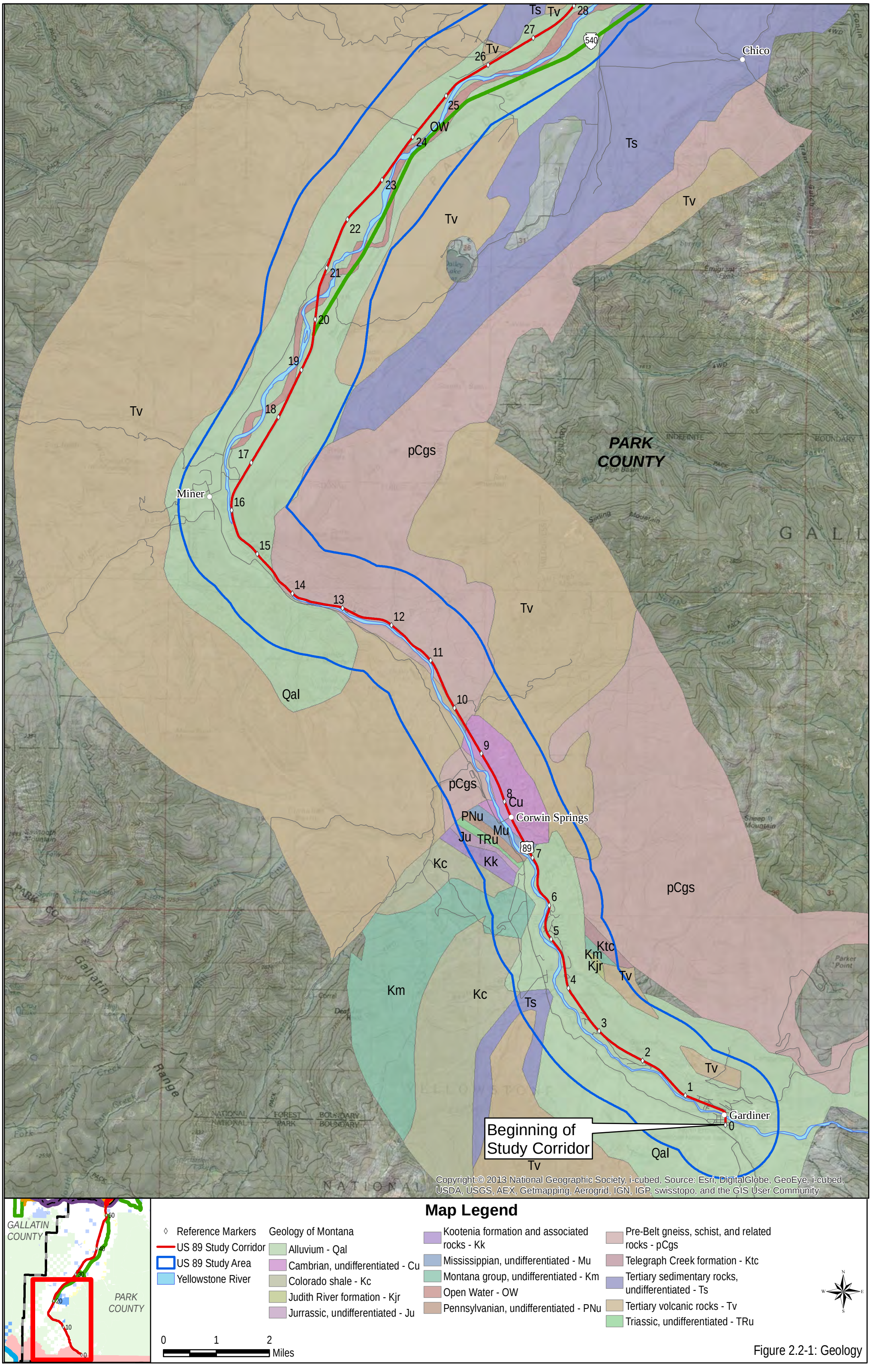


Figure 2.2-1: Geology

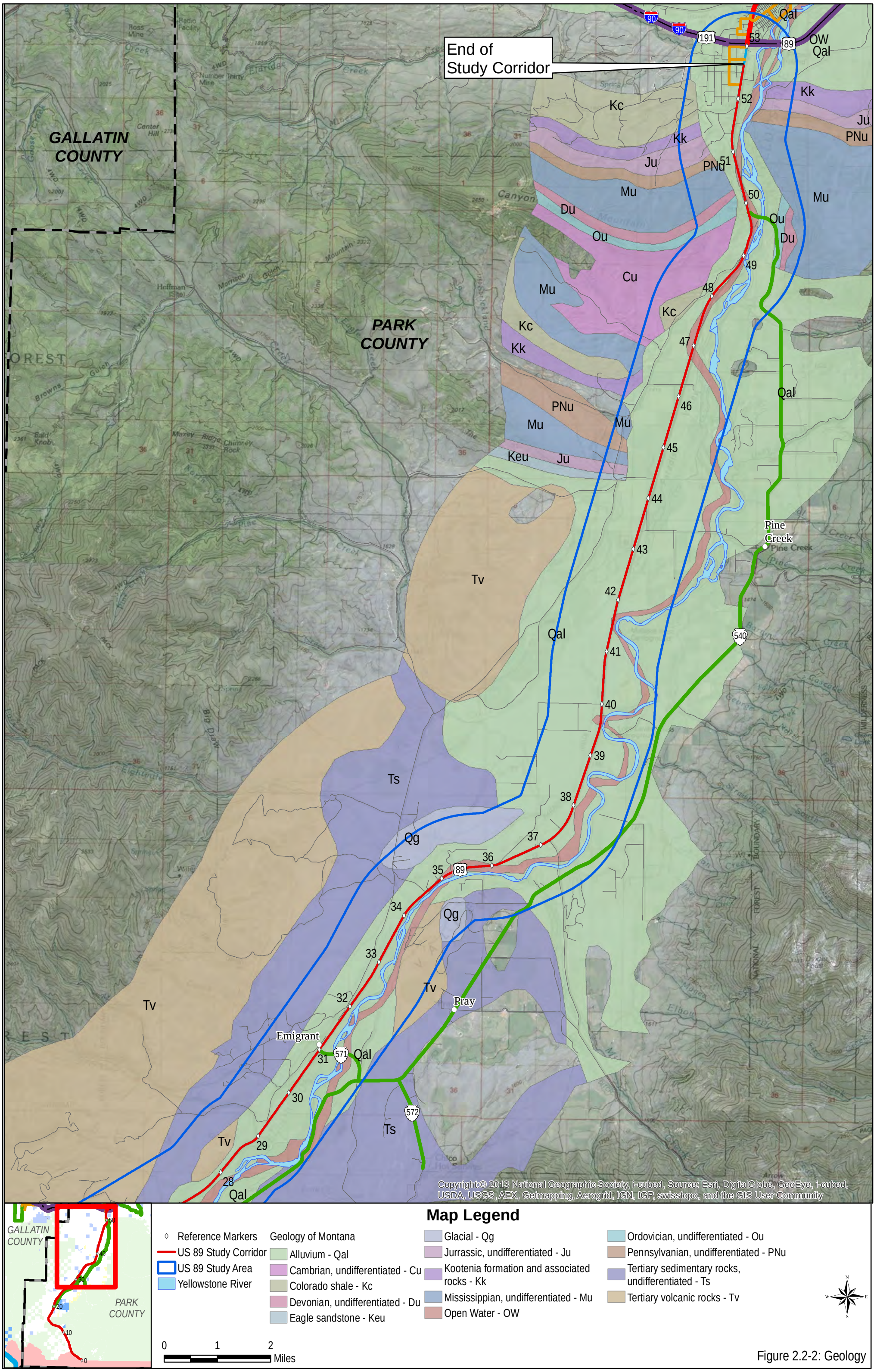


Figure 2.2-2: Geology

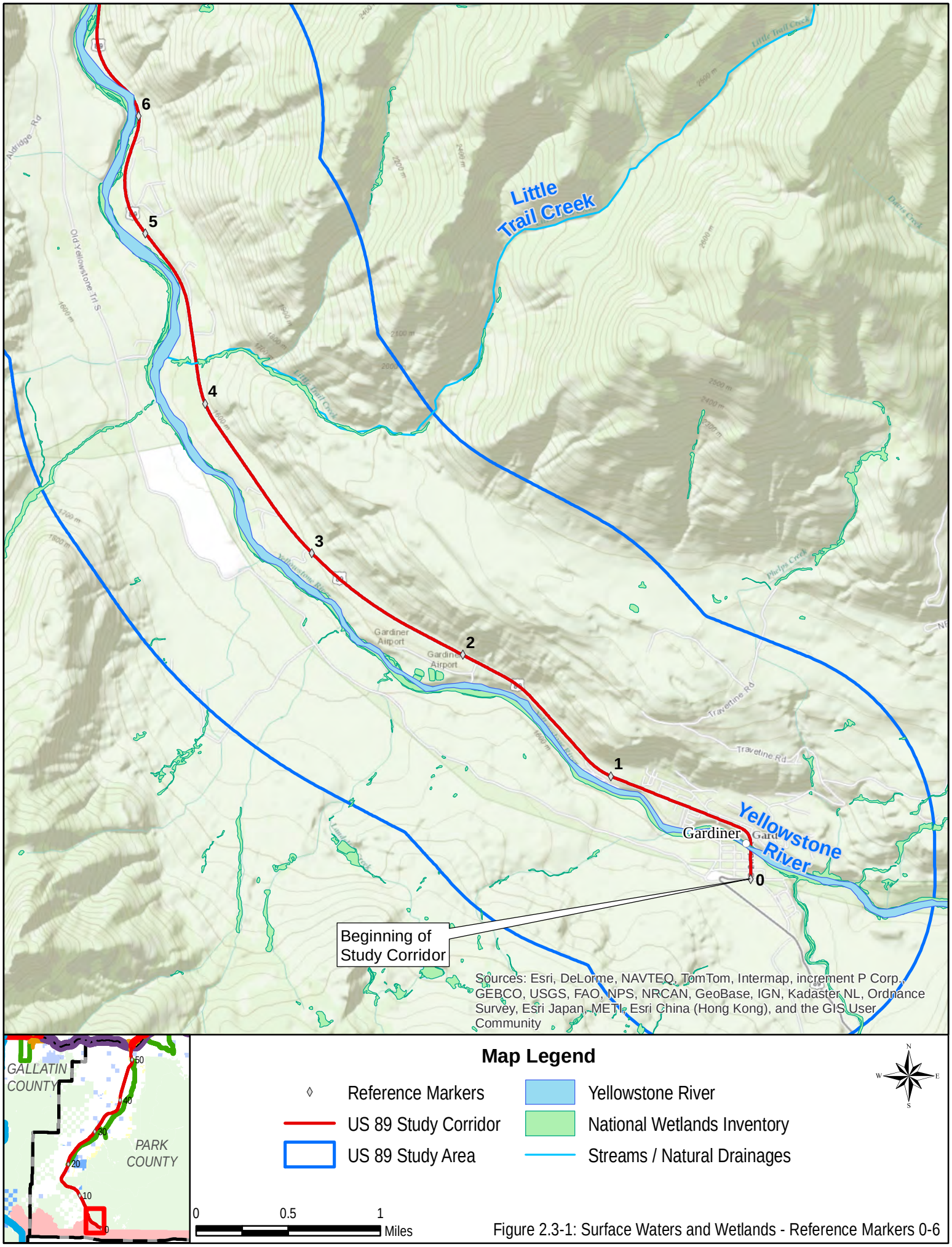


Figure 2.3-1: Surface Waters and Wetlands - Reference Markers 0-6

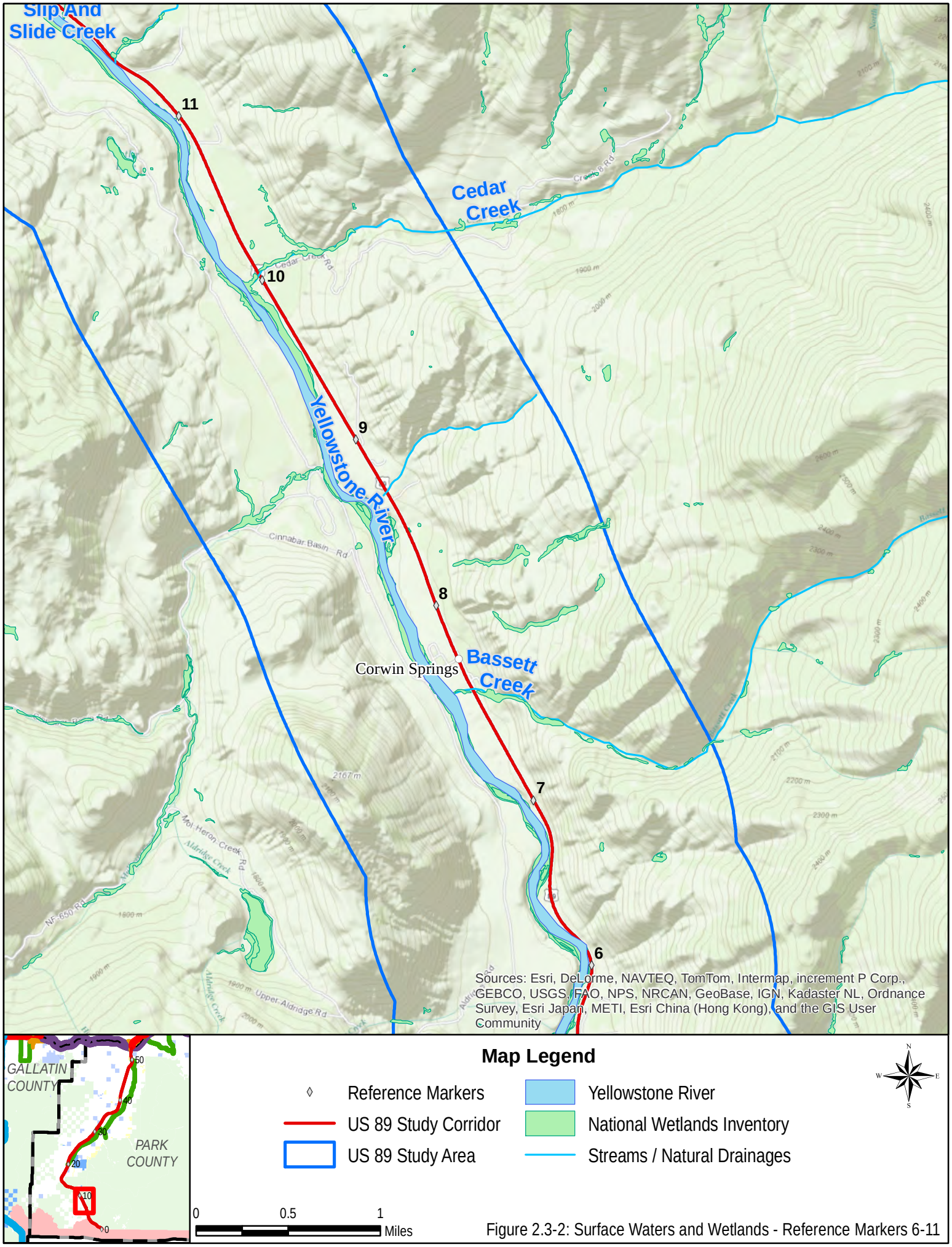


Figure 2.3-2: Surface Waters and Wetlands - Reference Markers 6-11

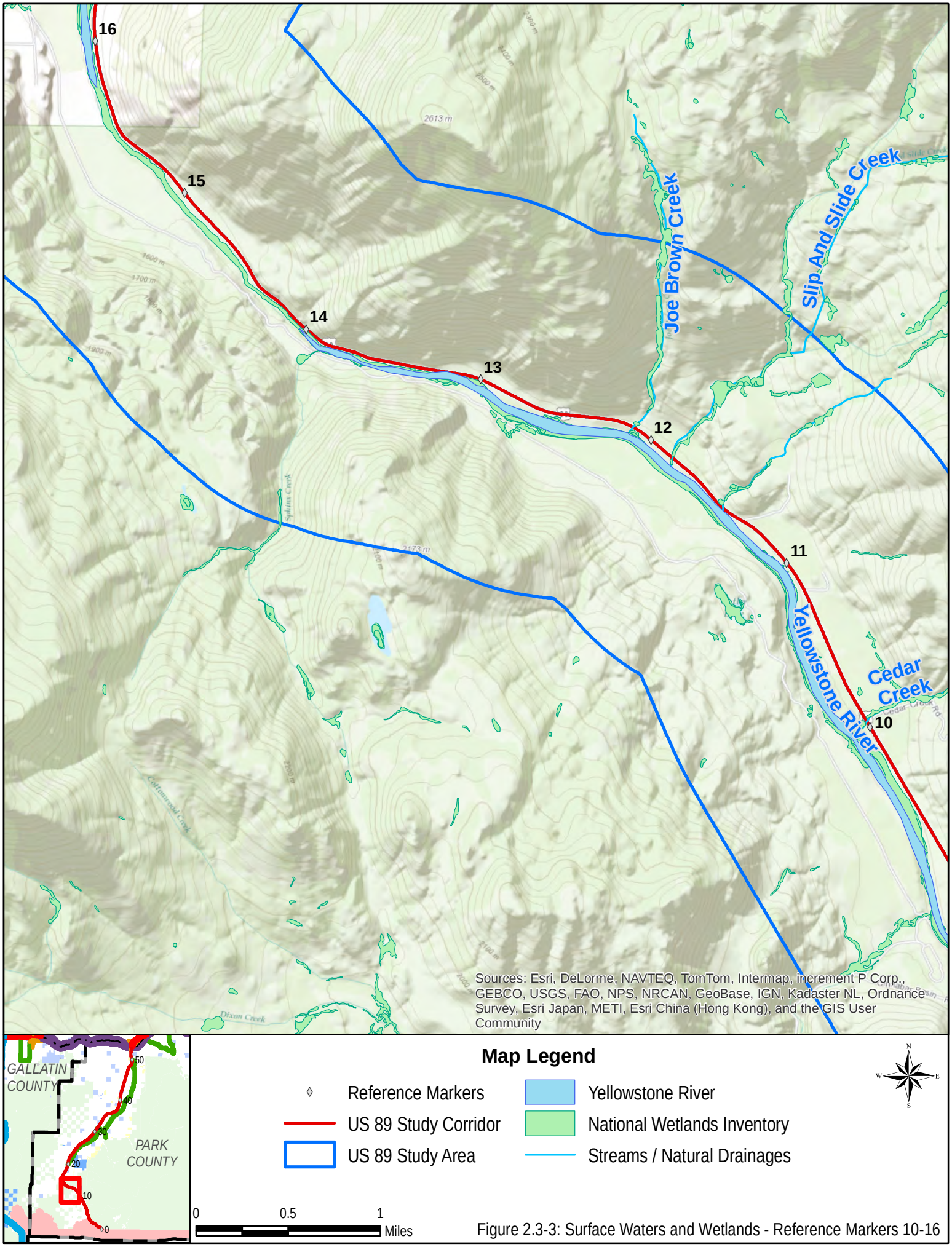


Figure 2.3-3: Surface Waters and Wetlands - Reference Markers 10-16

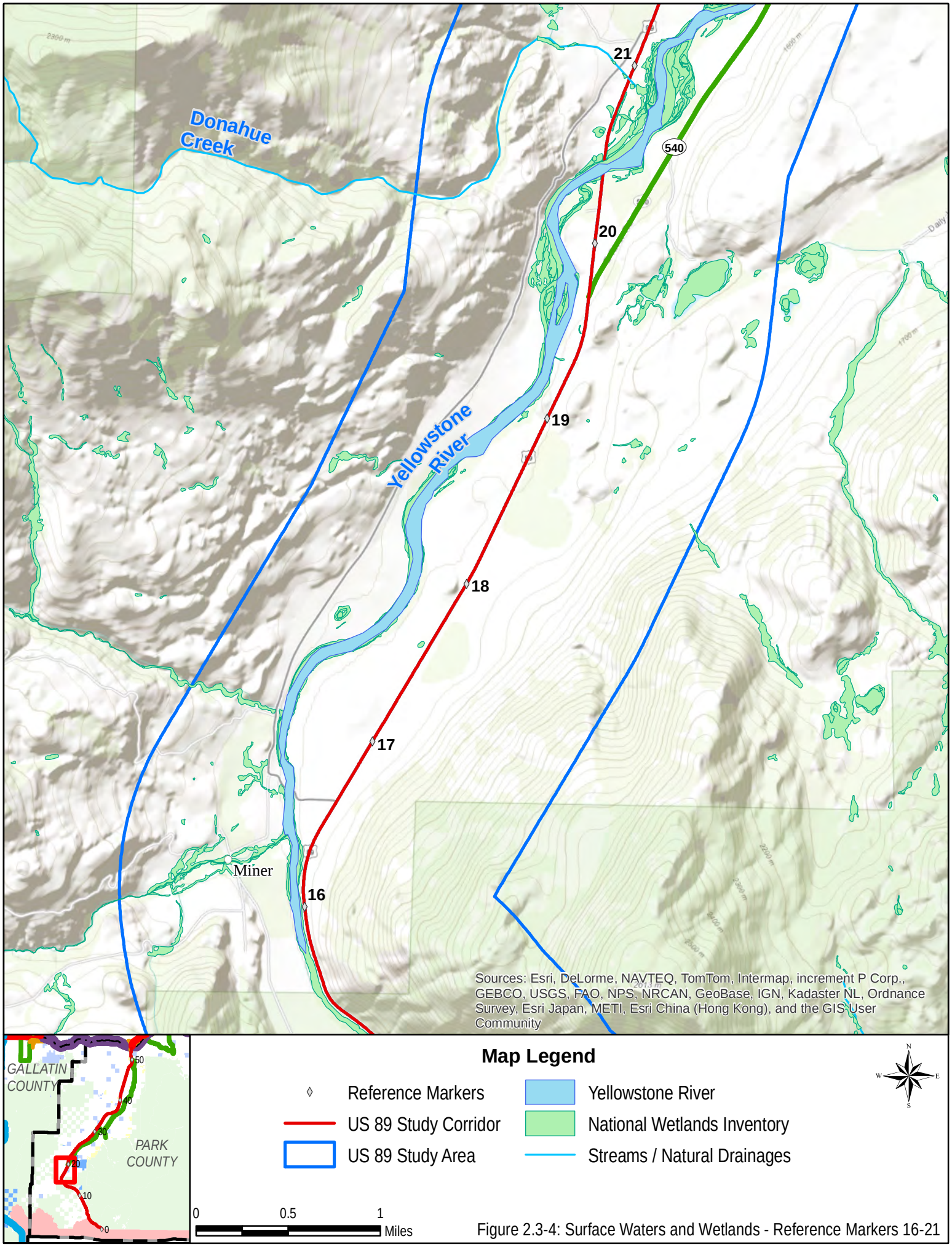


Figure 2.3-4: Surface Waters and Wetlands - Reference Markers 16-21

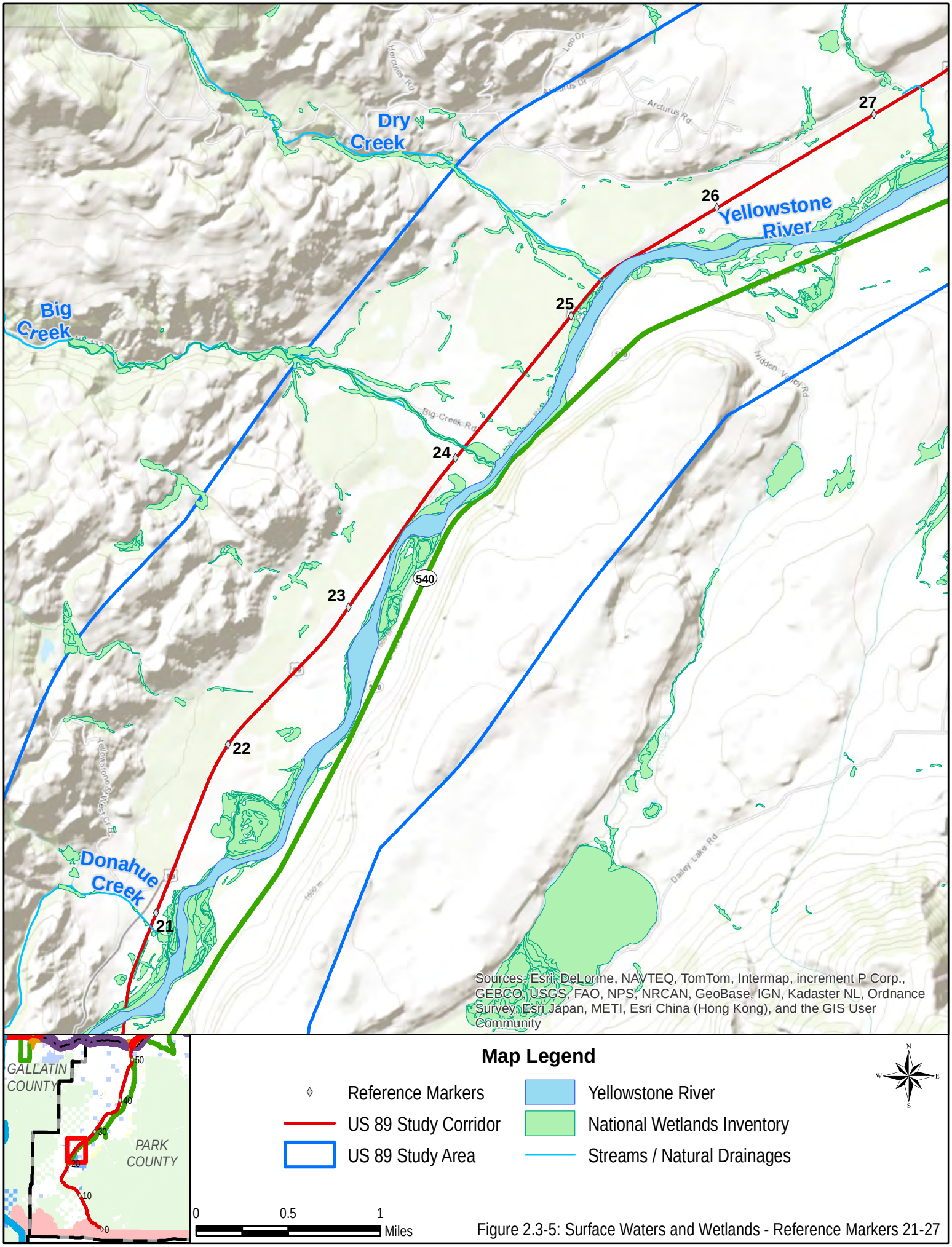


Figure 2.3-5: Surface Waters and Wetlands - Reference Markers 21-27

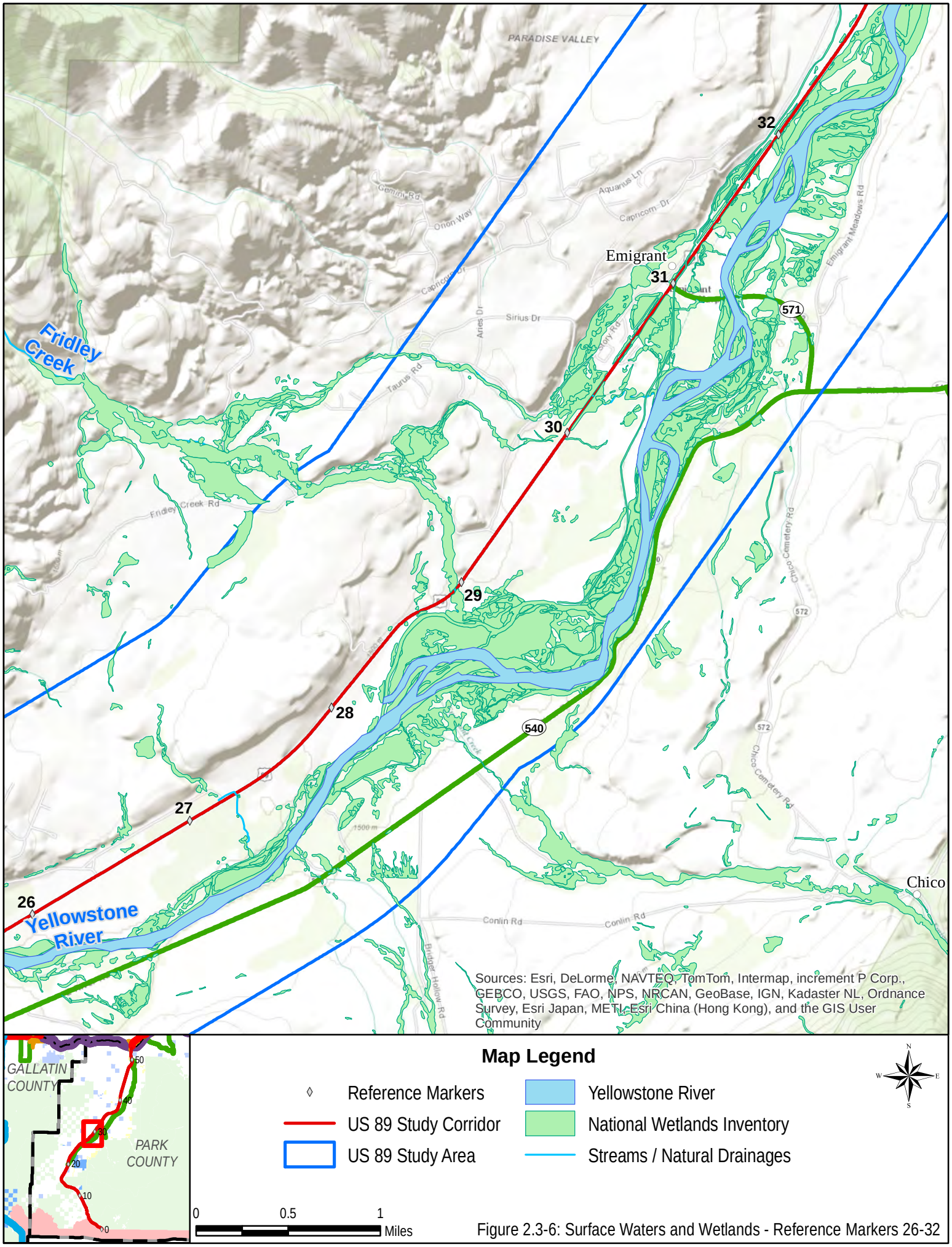


Figure 2.3-6: Surface Waters and Wetlands - Reference Markers 26-32

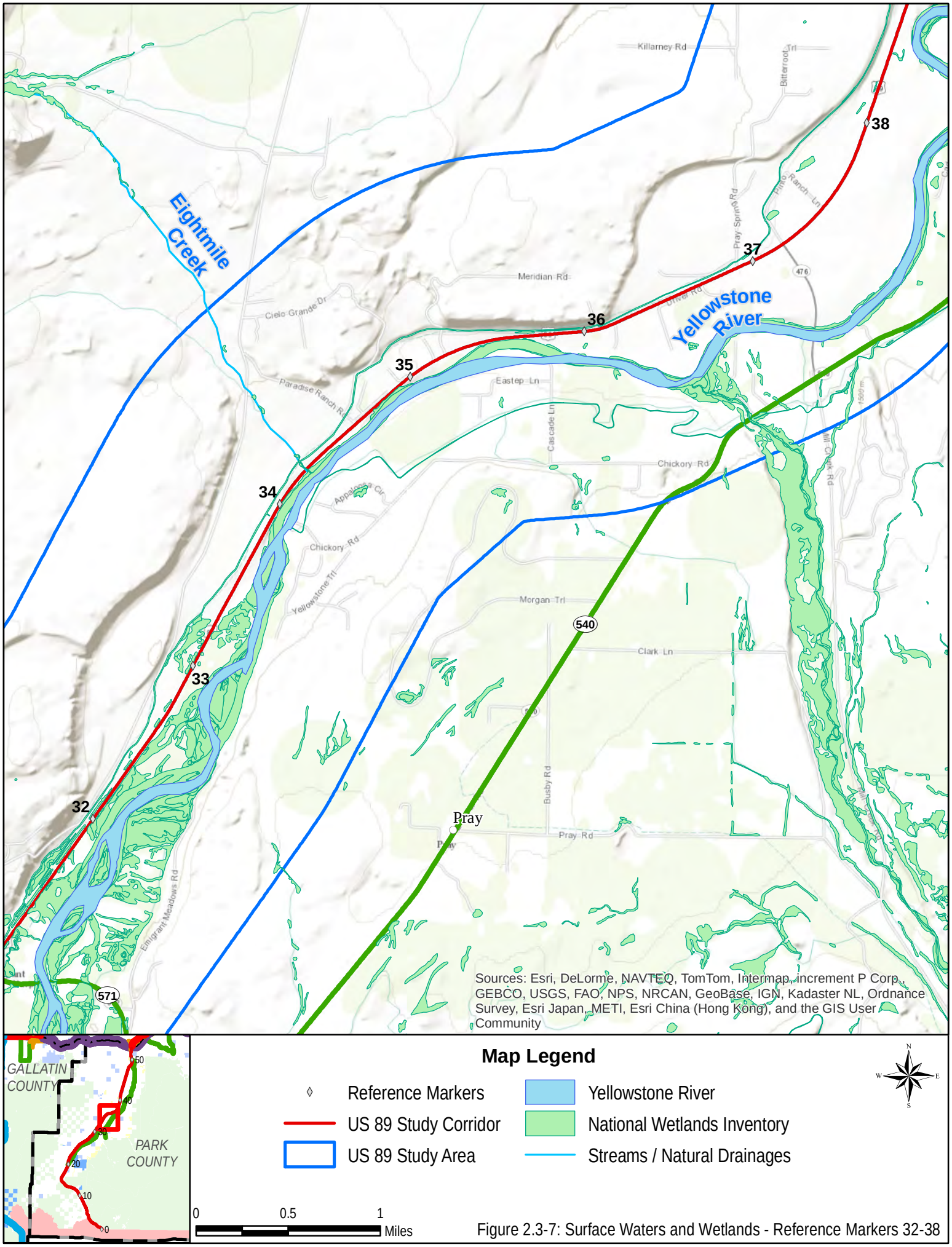


Figure 2.3-7: Surface Waters and Wetlands - Reference Markers 32-38

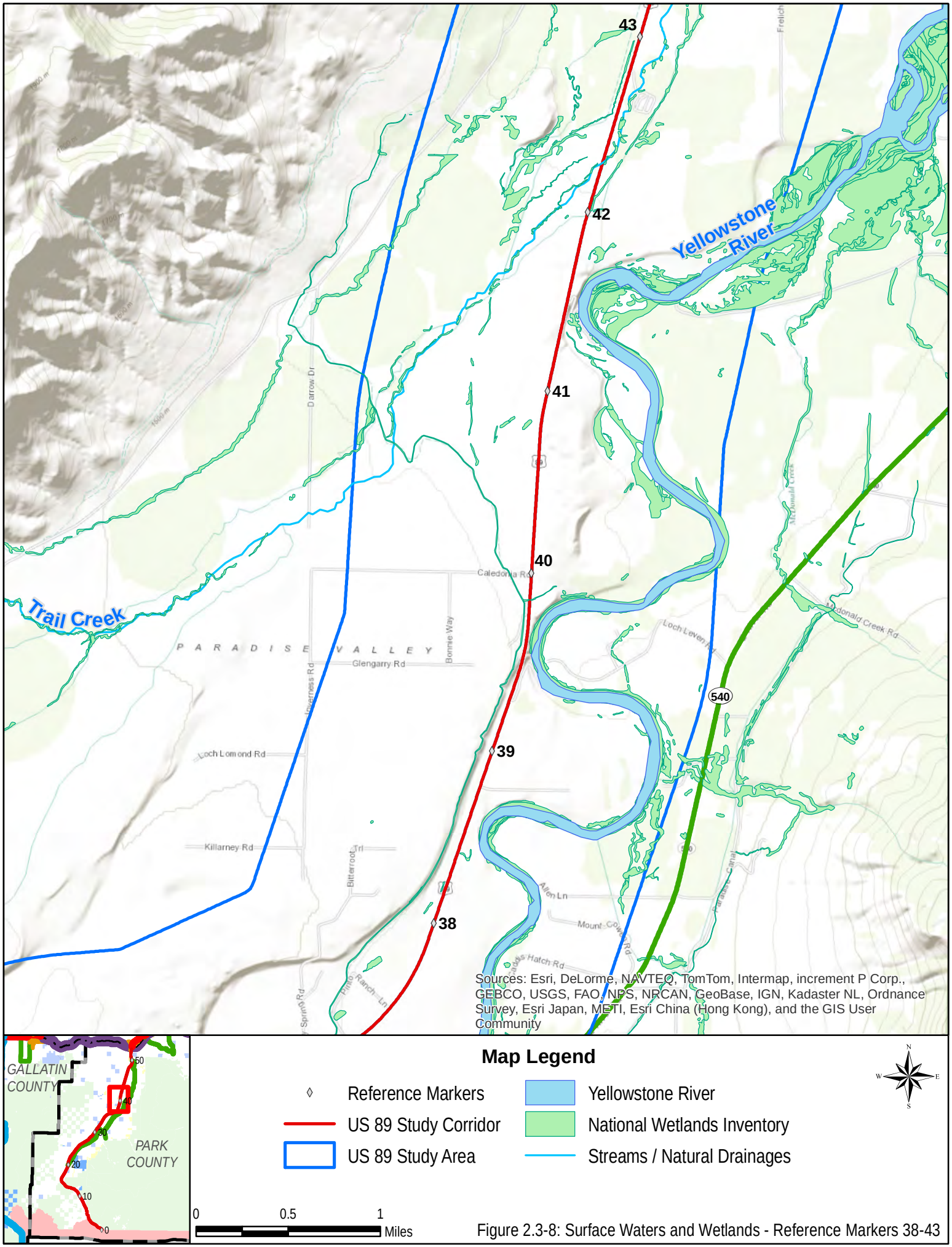


Figure 2.3-8: Surface Waters and Wetlands - Reference Markers 38-43

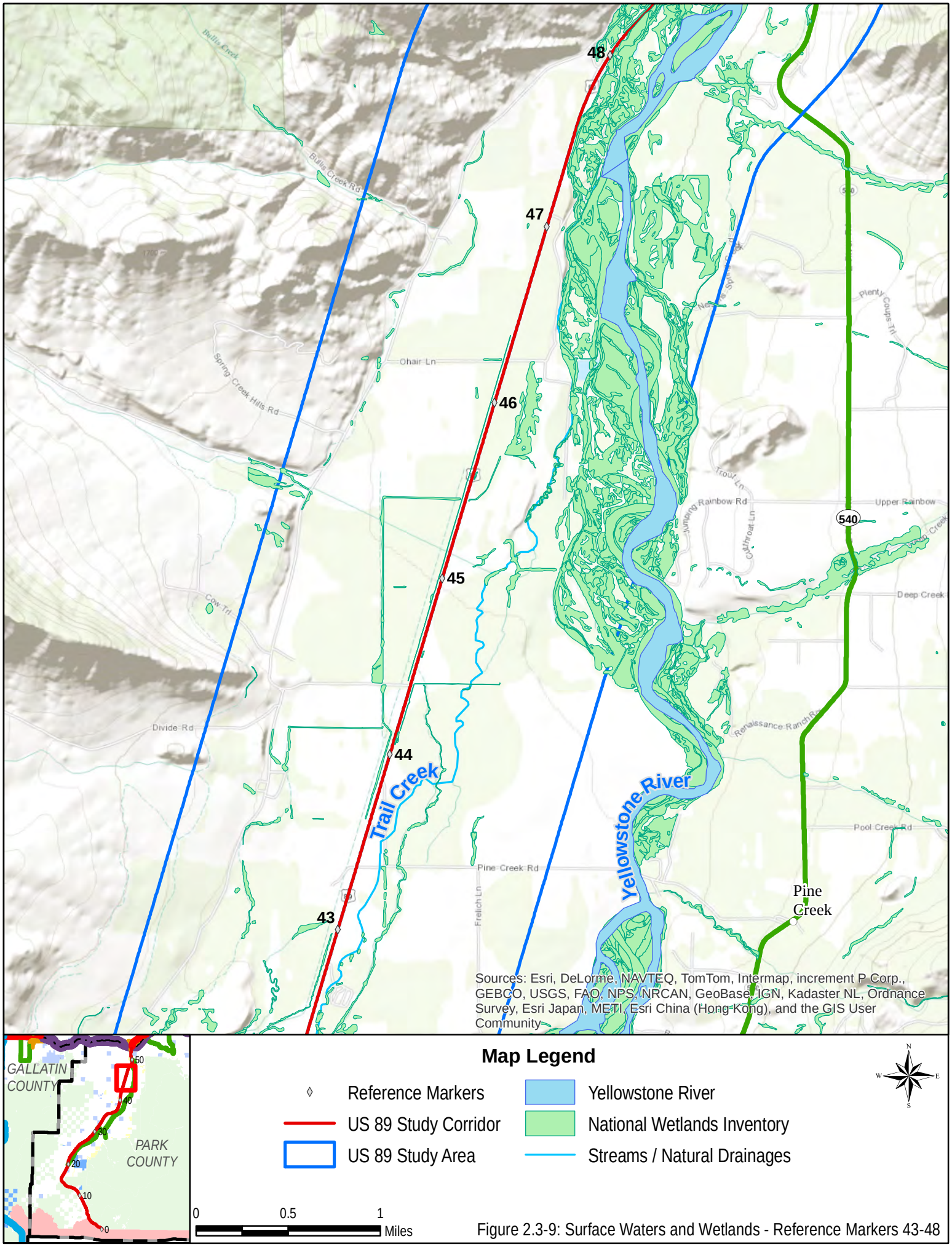


Figure 2.3-9: Surface Waters and Wetlands - Reference Markers 43-48

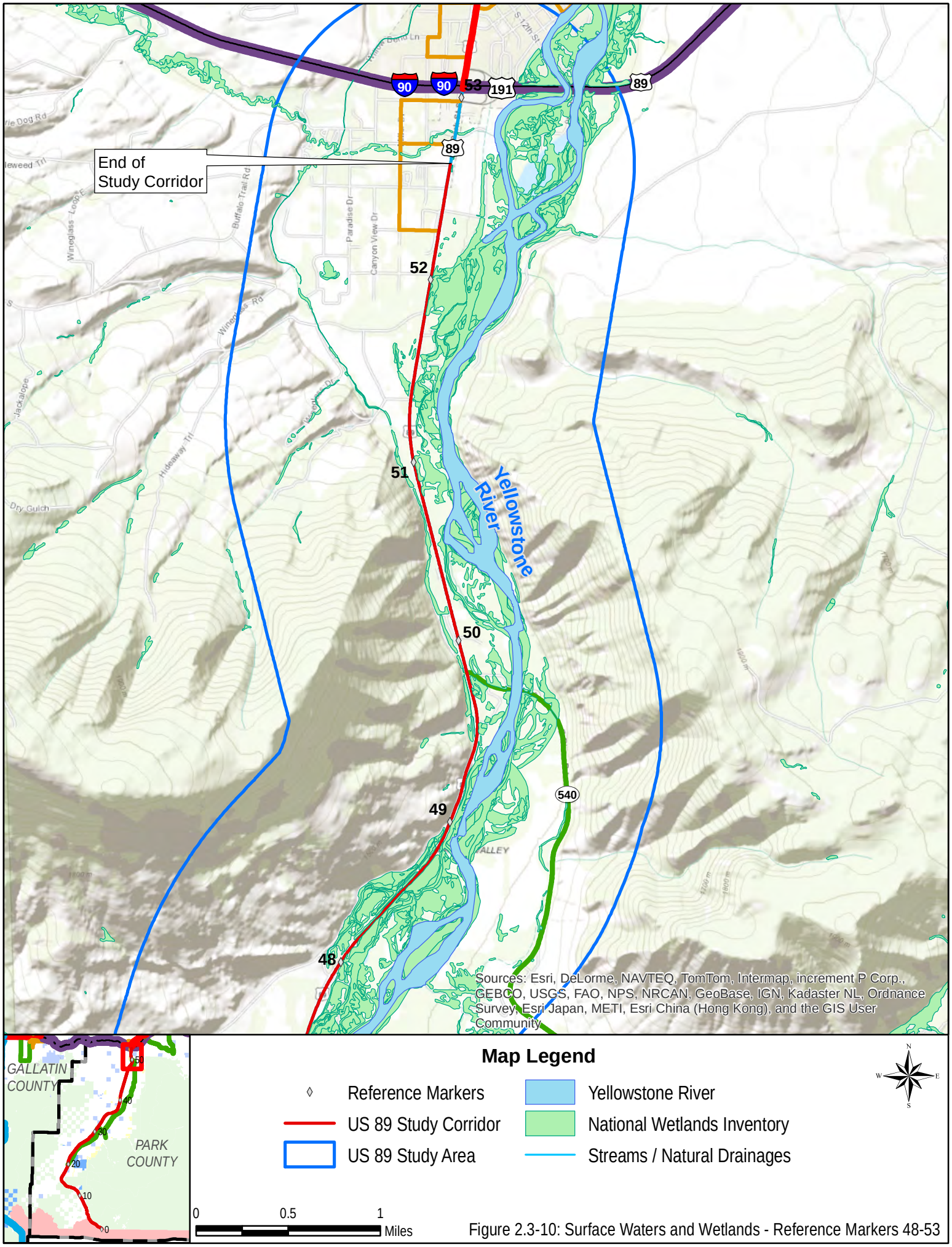


Figure 2.3-10: Surface Waters and Wetlands - Reference Markers 48-53

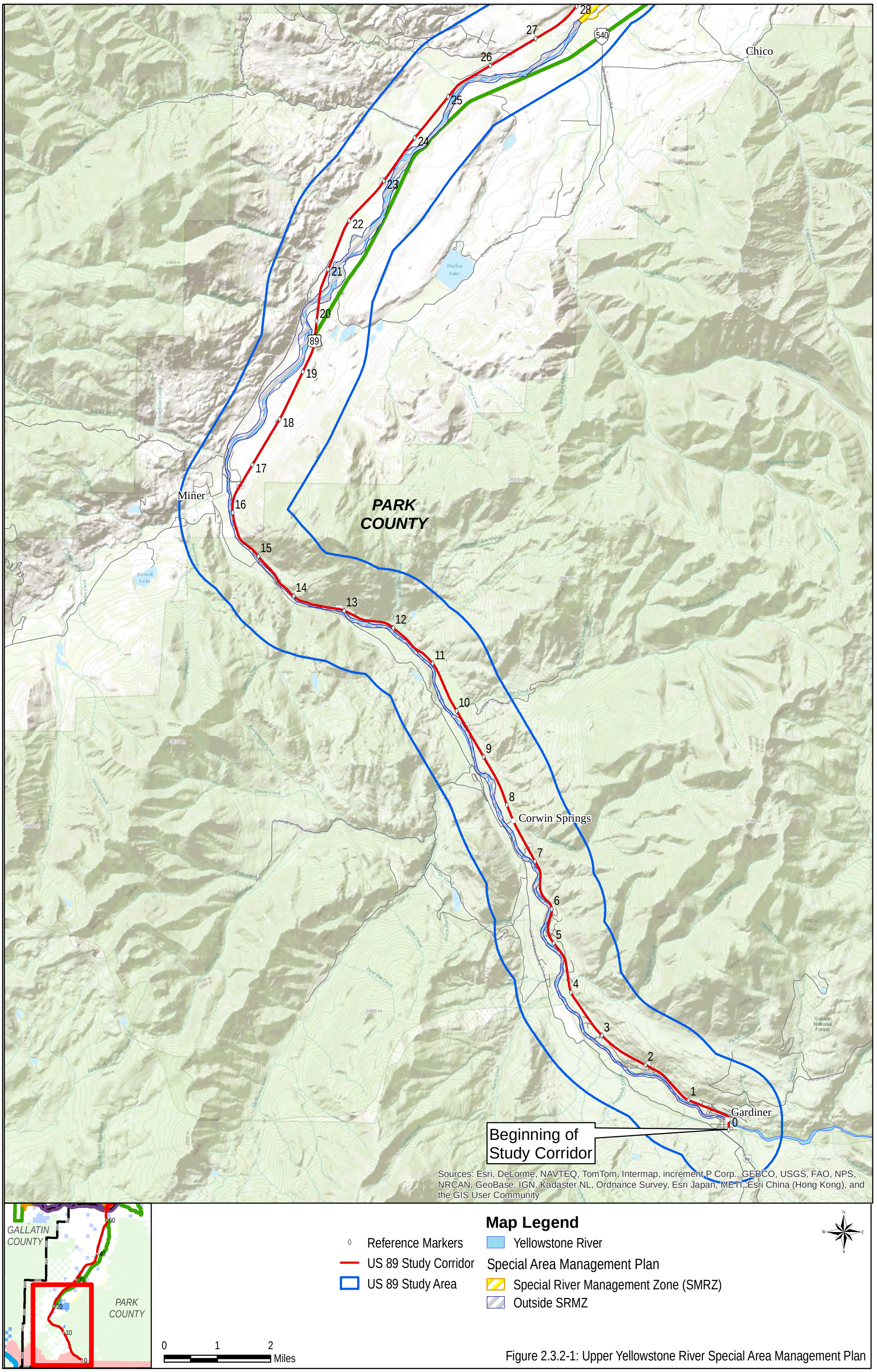


Figure 2.3.2-1: Upper Yellowstone River Special Area Management Plan

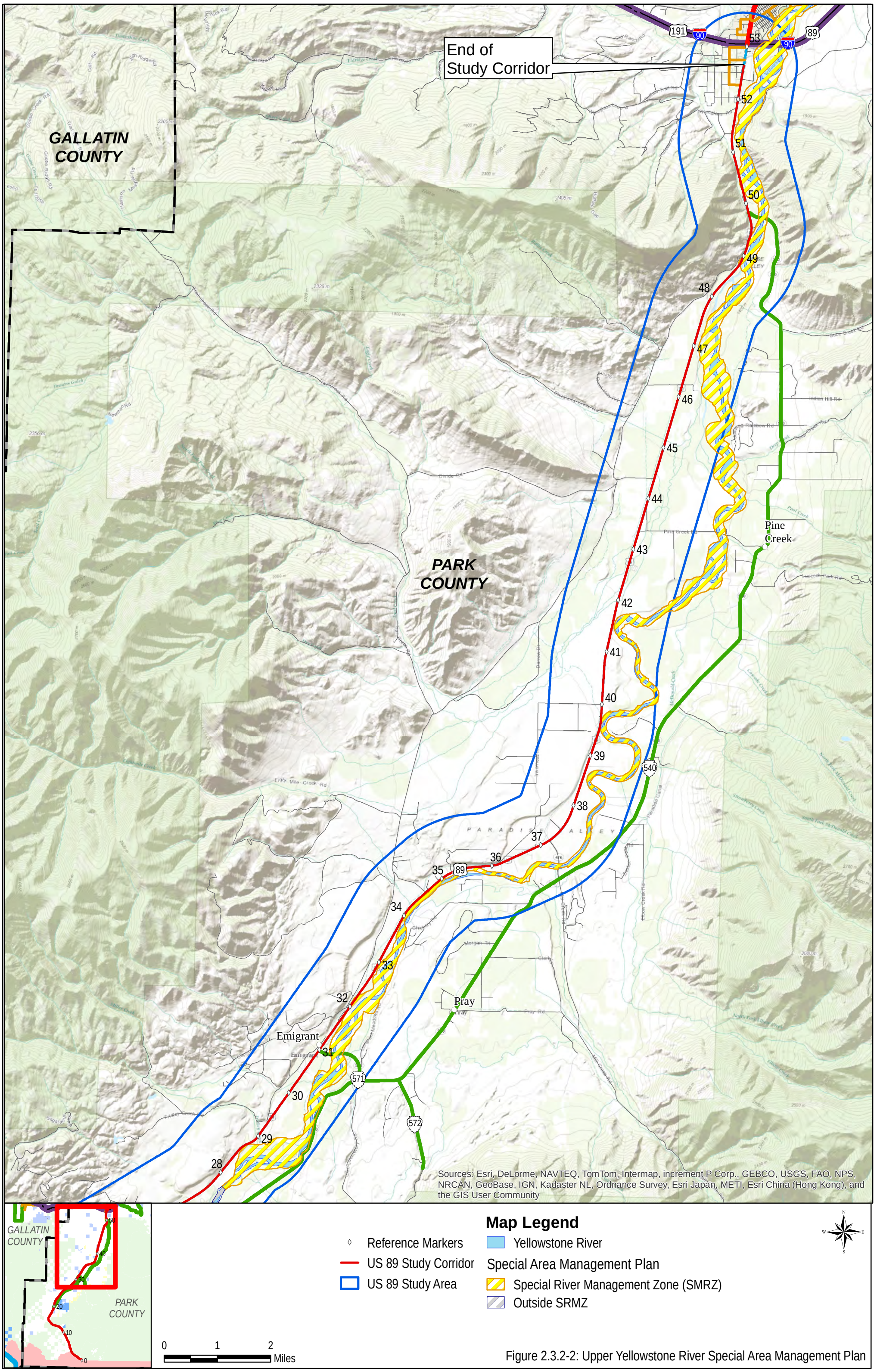


Figure 2.3.2-2: Upper Yellowstone River Special Area Management Plan

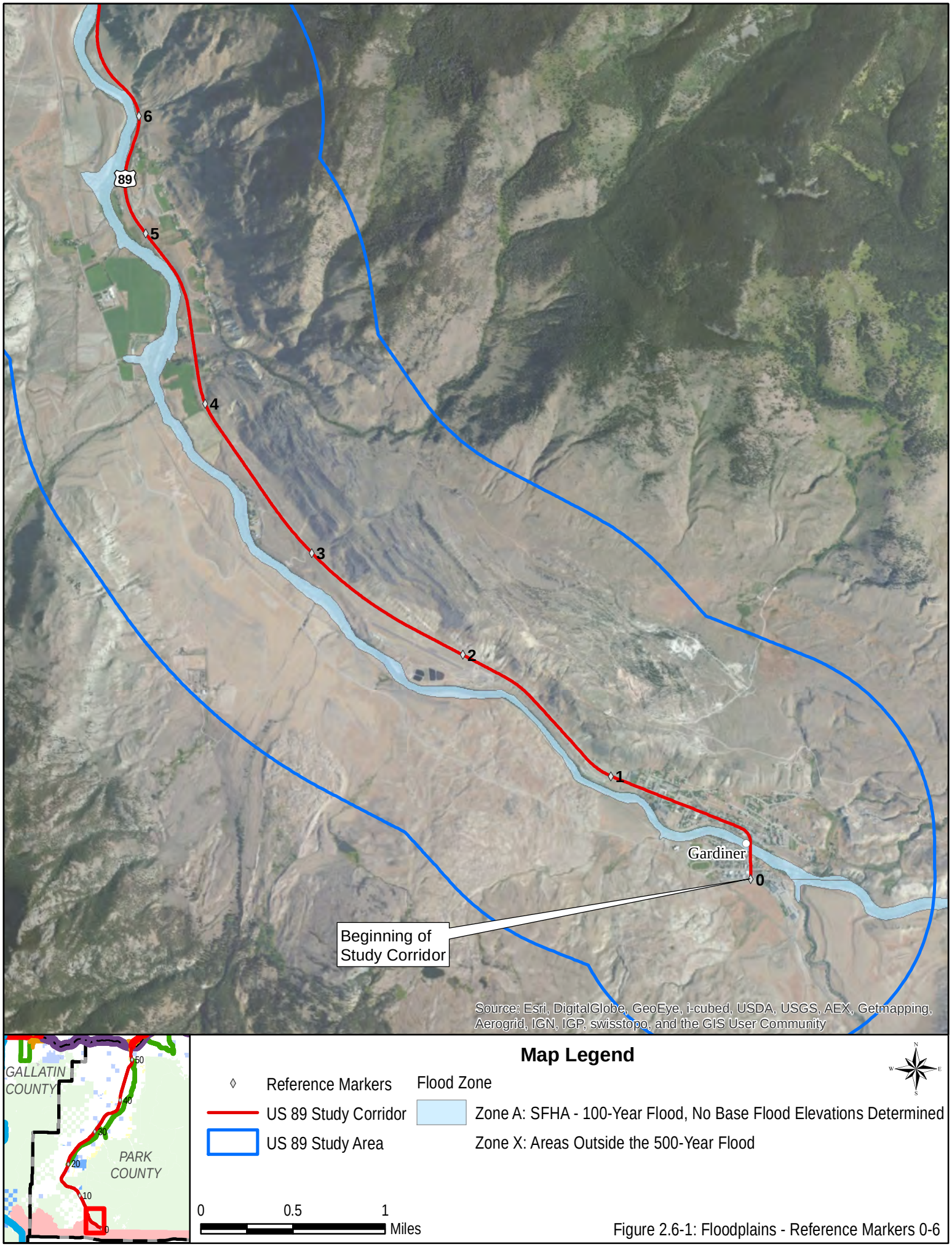


Figure 2.6-1: Floodplains - Reference Markers 0-6

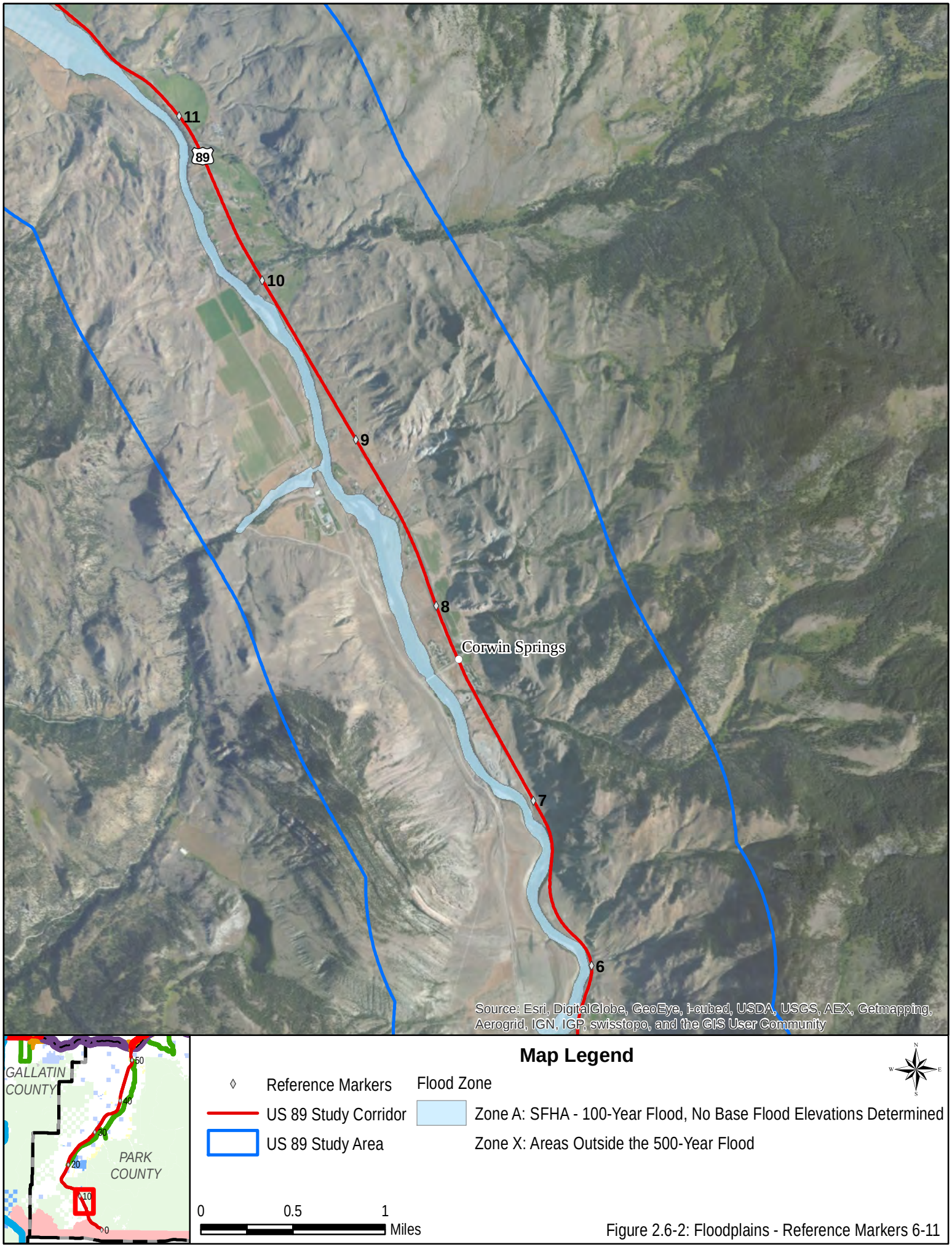


Figure 2.6-2: Floodplains - Reference Markers 6-11

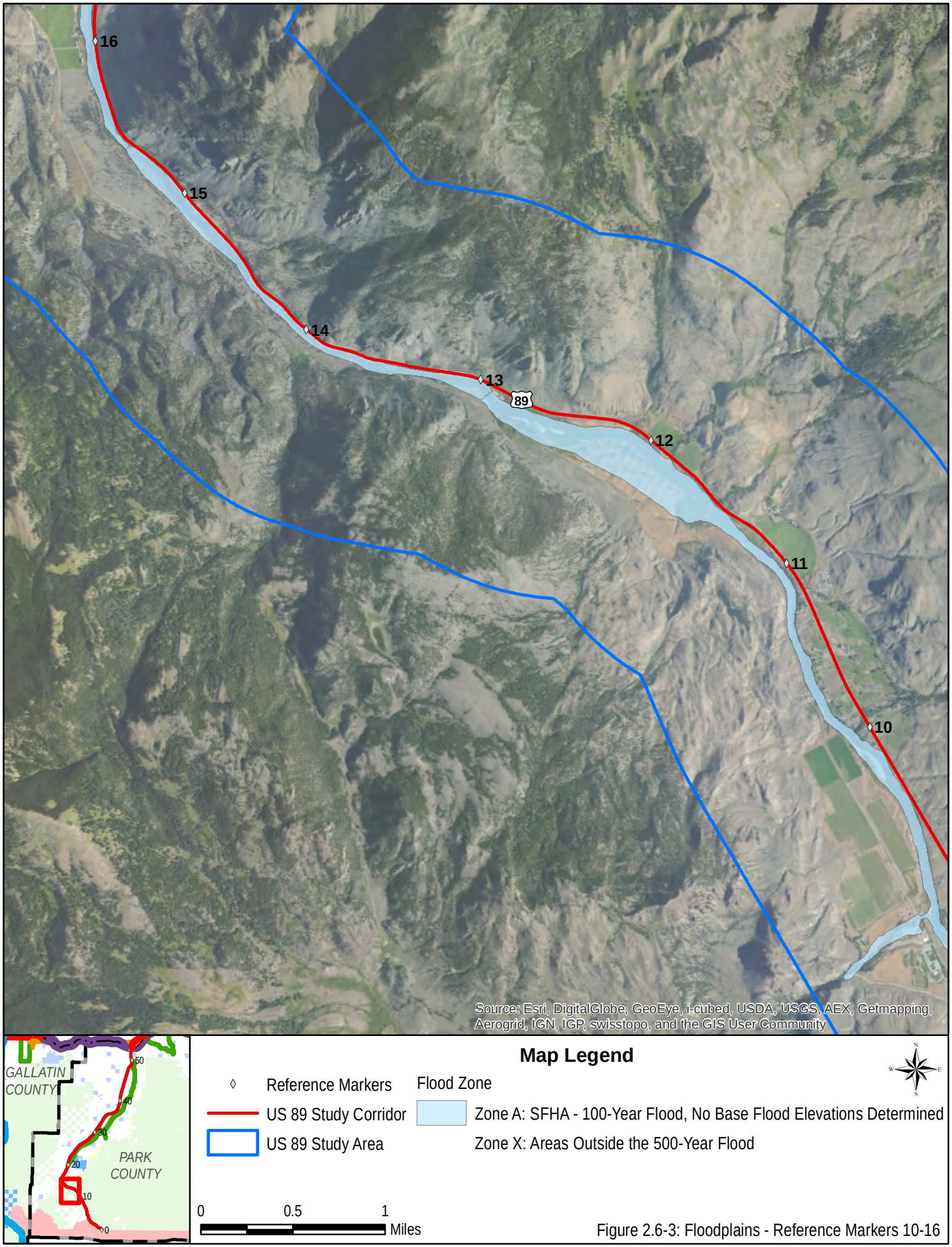


Figure 2.6-3: Floodplains - Reference Markers 10-16

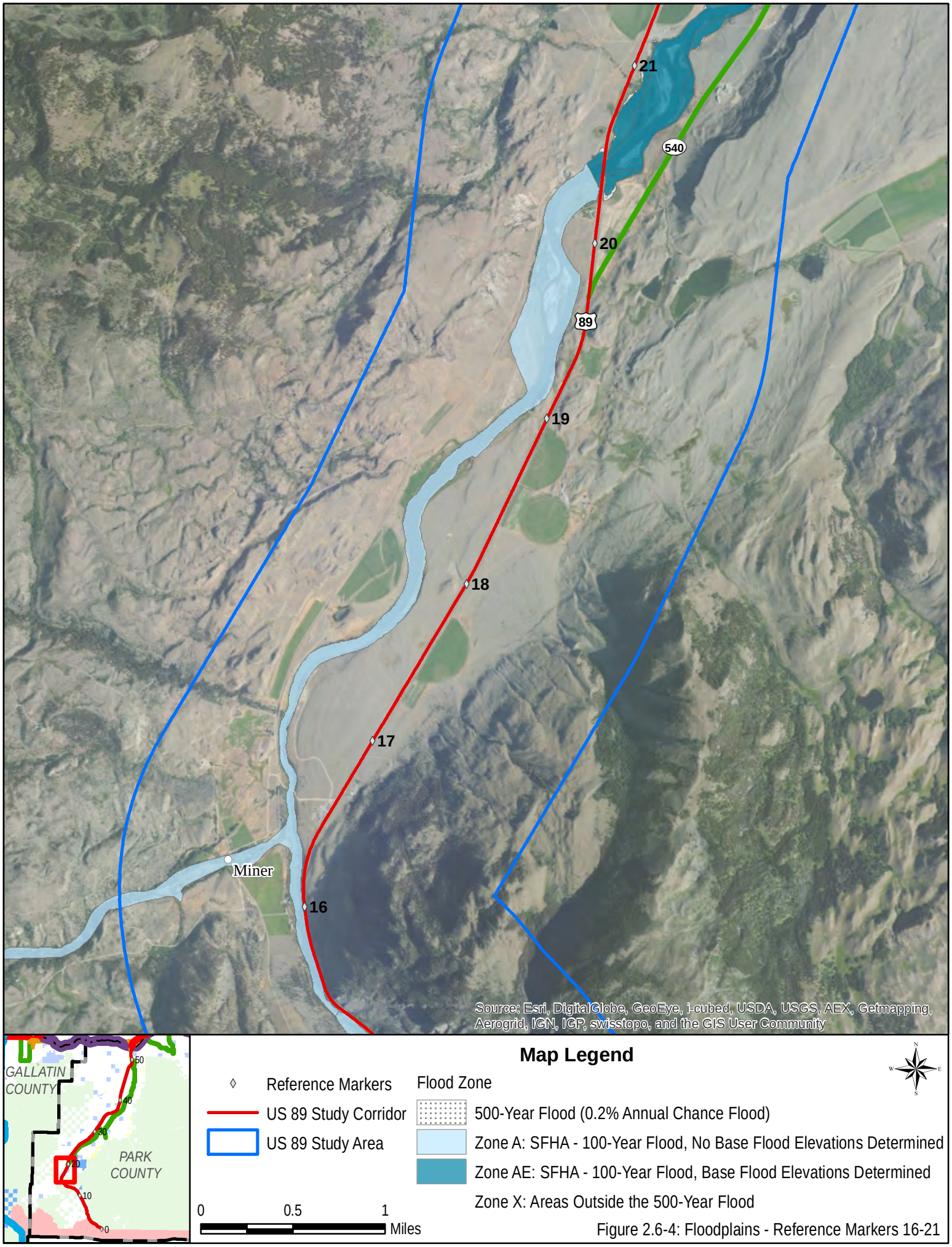
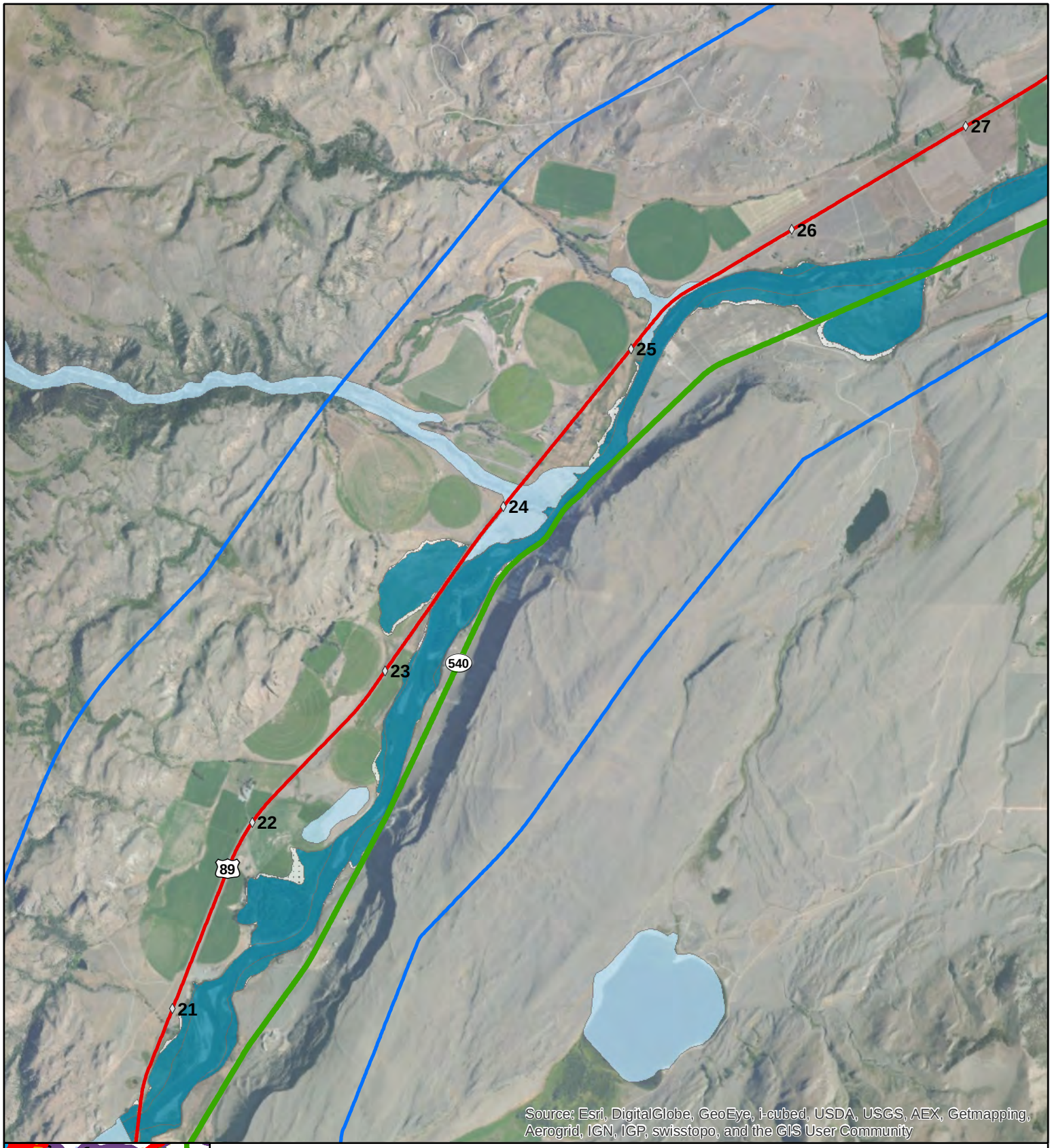
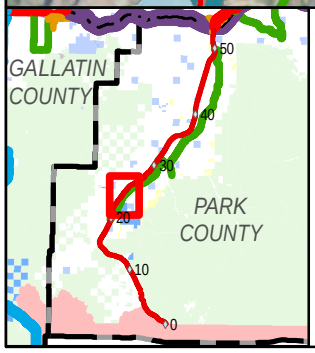


Figure 2.6-4: Floodplains - Reference Markers 16-21





Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area

Flood Zone

- 500-Year Flood (0.2% Annual Chance Flood)
- Zone A: SFHA - 100-Year Flood, No Base Flood Elevations Determined
- Zone AE: SFHA - 100-Year Flood, Base Flood Elevations Determined
- Zone X: Areas Outside the 500-Year Flood

0 0.5 1 Miles

Figure 2.6-5: Floodplains - Reference Markers 21-27

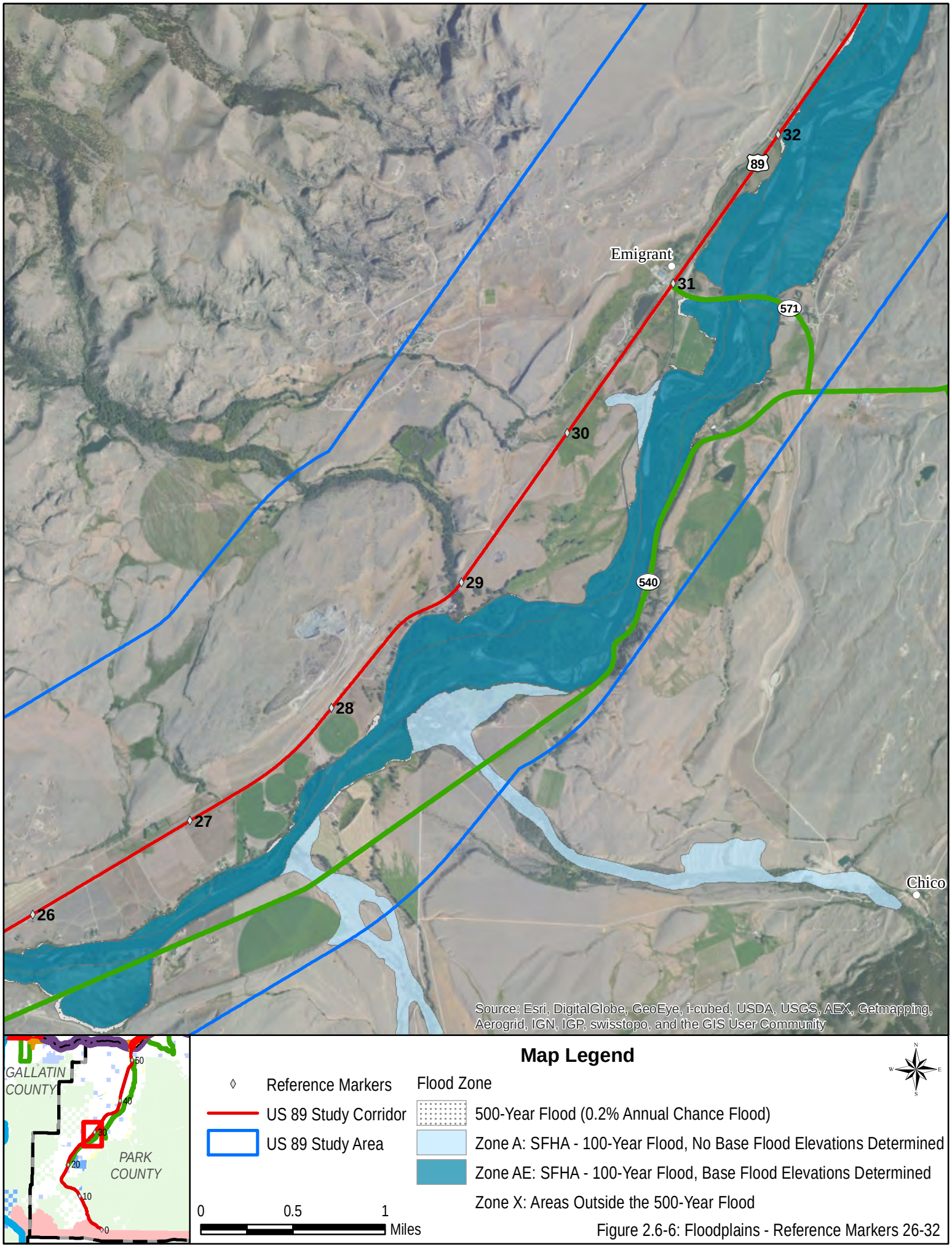


Figure 2.6-6: Floodplains - Reference Markers 26-32

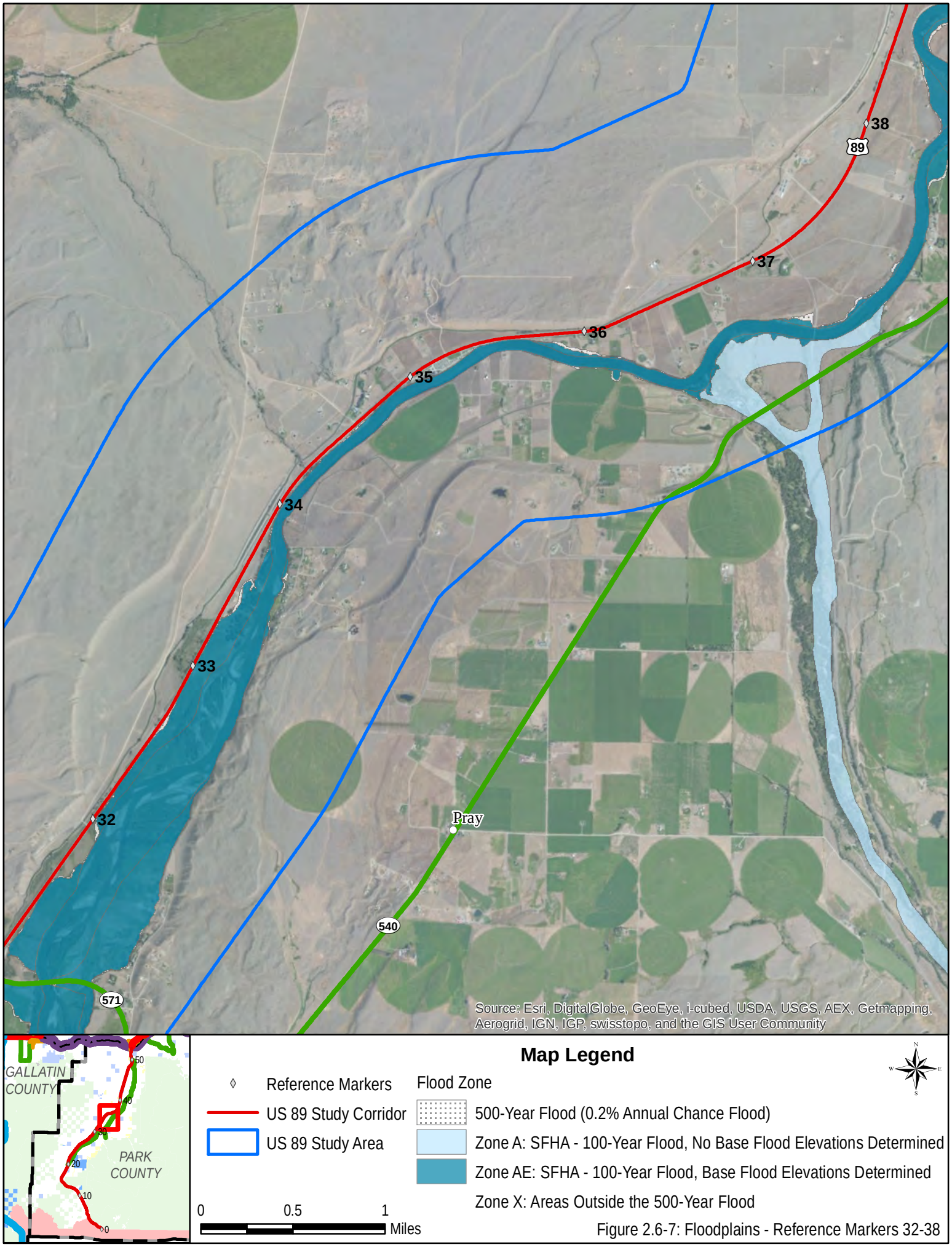
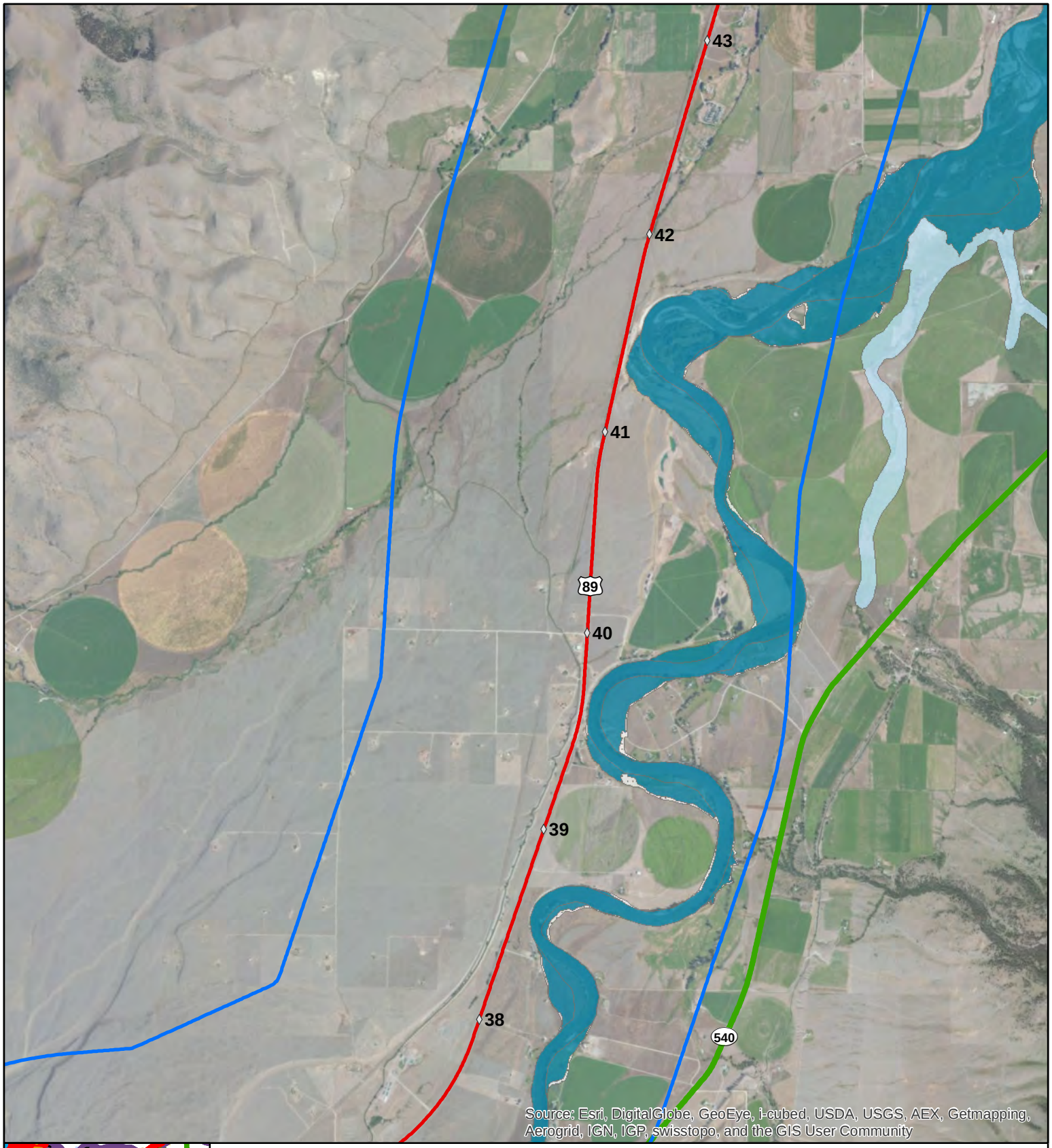
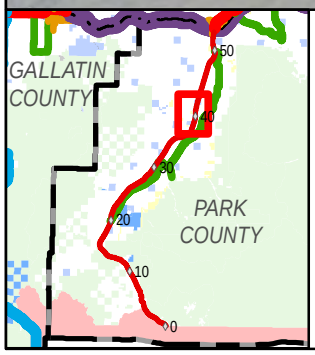


Figure 2.6-7: Floodplains - Reference Markers 32-38





Map Legend

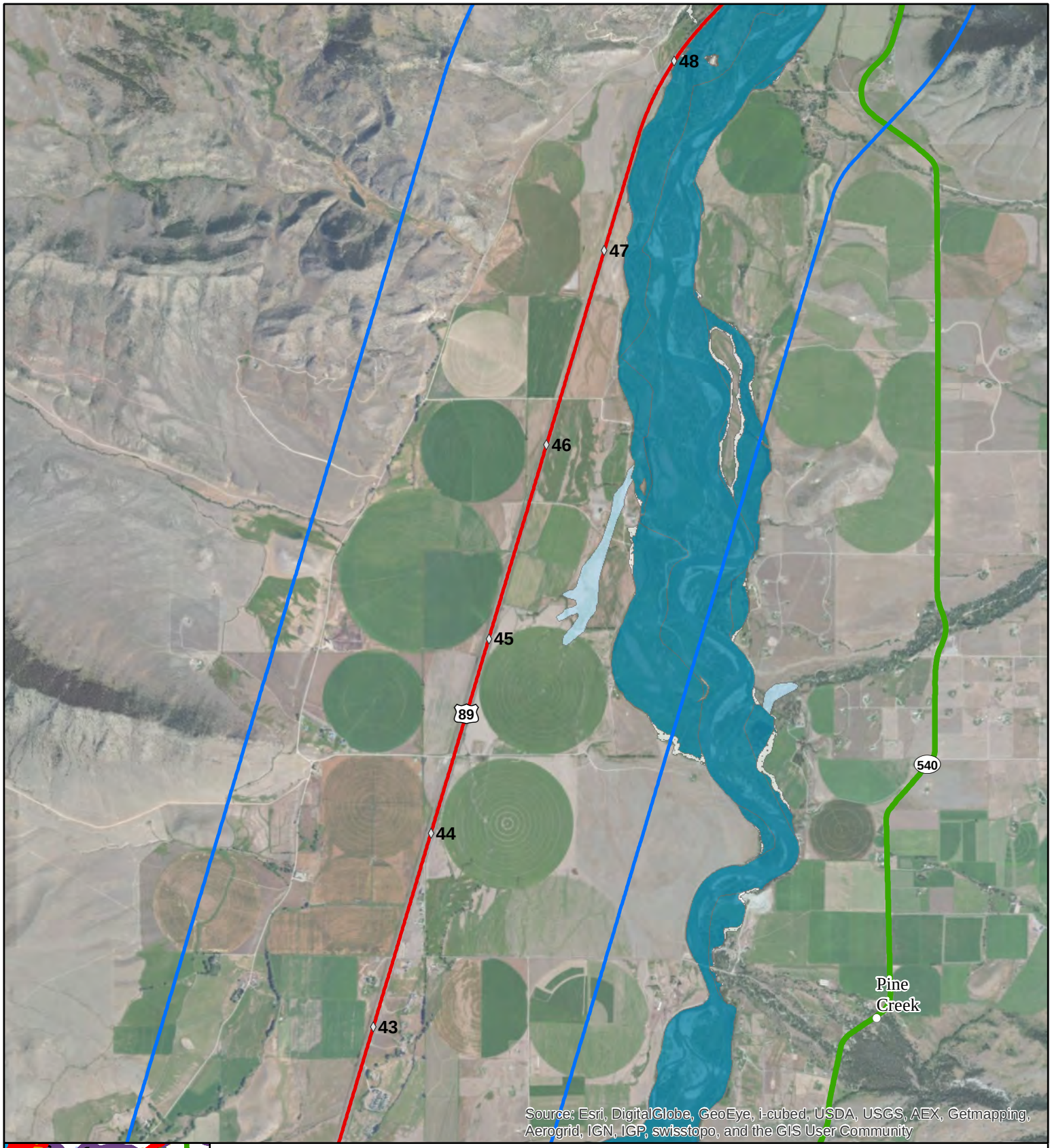
- Reference Markers
- US 89 Study Corridor
- US 89 Study Area

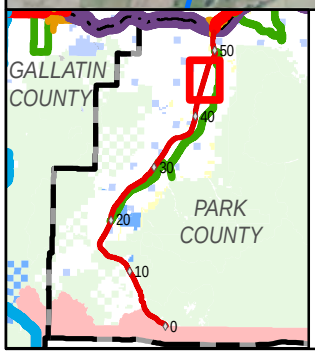
Flood Zone

- 500-Year Flood (0.2% Annual Chance Flood)
- Zone A: SFHA - 100-Year Flood, No Base Flood Elevations Determined
- Zone AE: SFHA - 100-Year Flood, Base Flood Elevations Determined
- Zone X: Areas Outside the 500-Year Flood

0 0.5 1 Miles

Figure 2.6-8: Floodplains - Reference Markers 38-43





Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area

Flood Zone

- 500-Year Flood (0.2% Annual Chance Flood)
- Zone A: SFHA - 100-Year Flood, No Base Flood Elevations Determined
- Zone AE: SFHA - 100-Year Flood, Base Flood Elevations Determined
- Zone X: Areas Outside the 500-Year Flood

0 0.5 1 Miles

Figure 2.6-9: Floodplains - Reference Markers 43-48

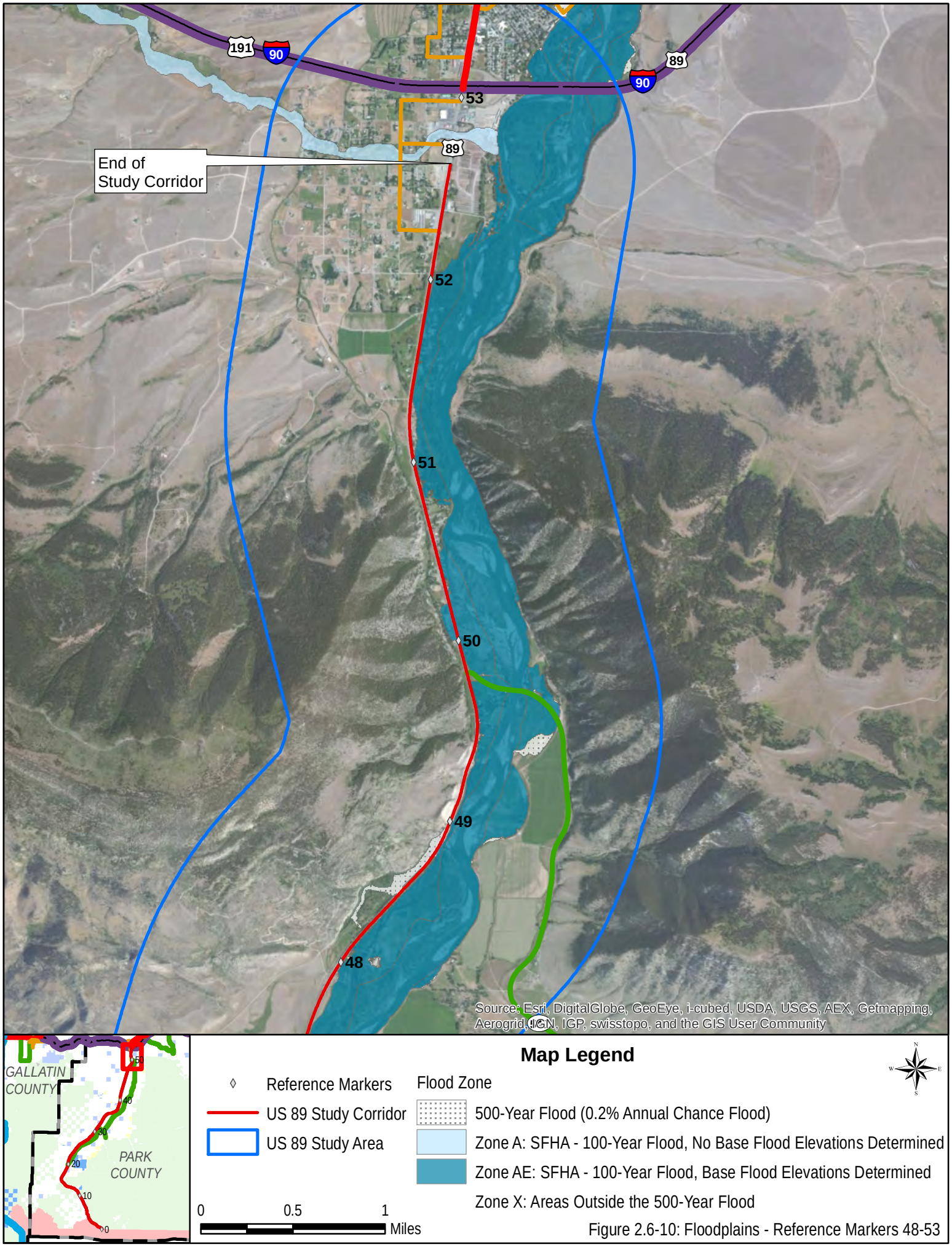
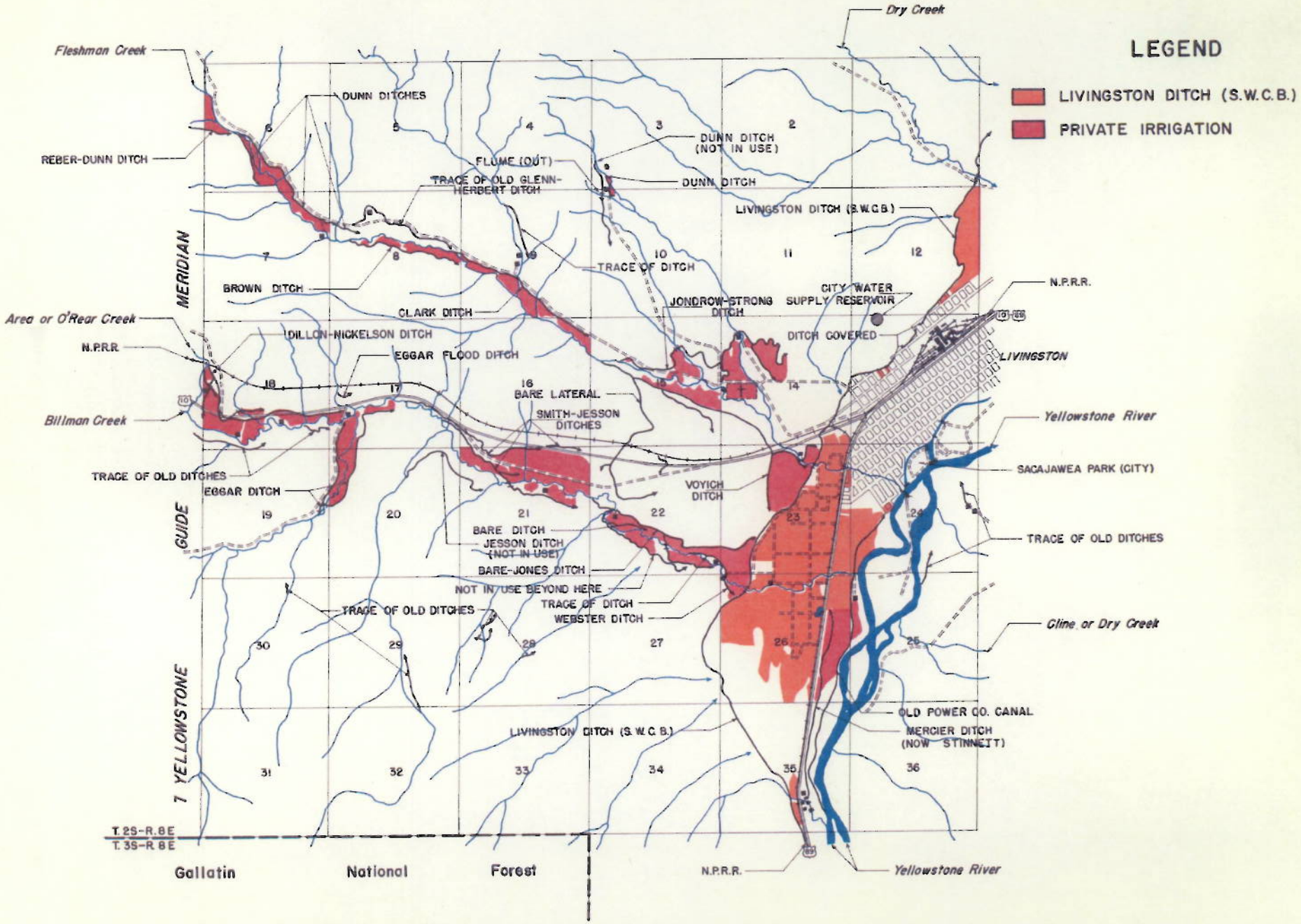


Figure 2.6-10: Floodplains - Reference Markers 48-53

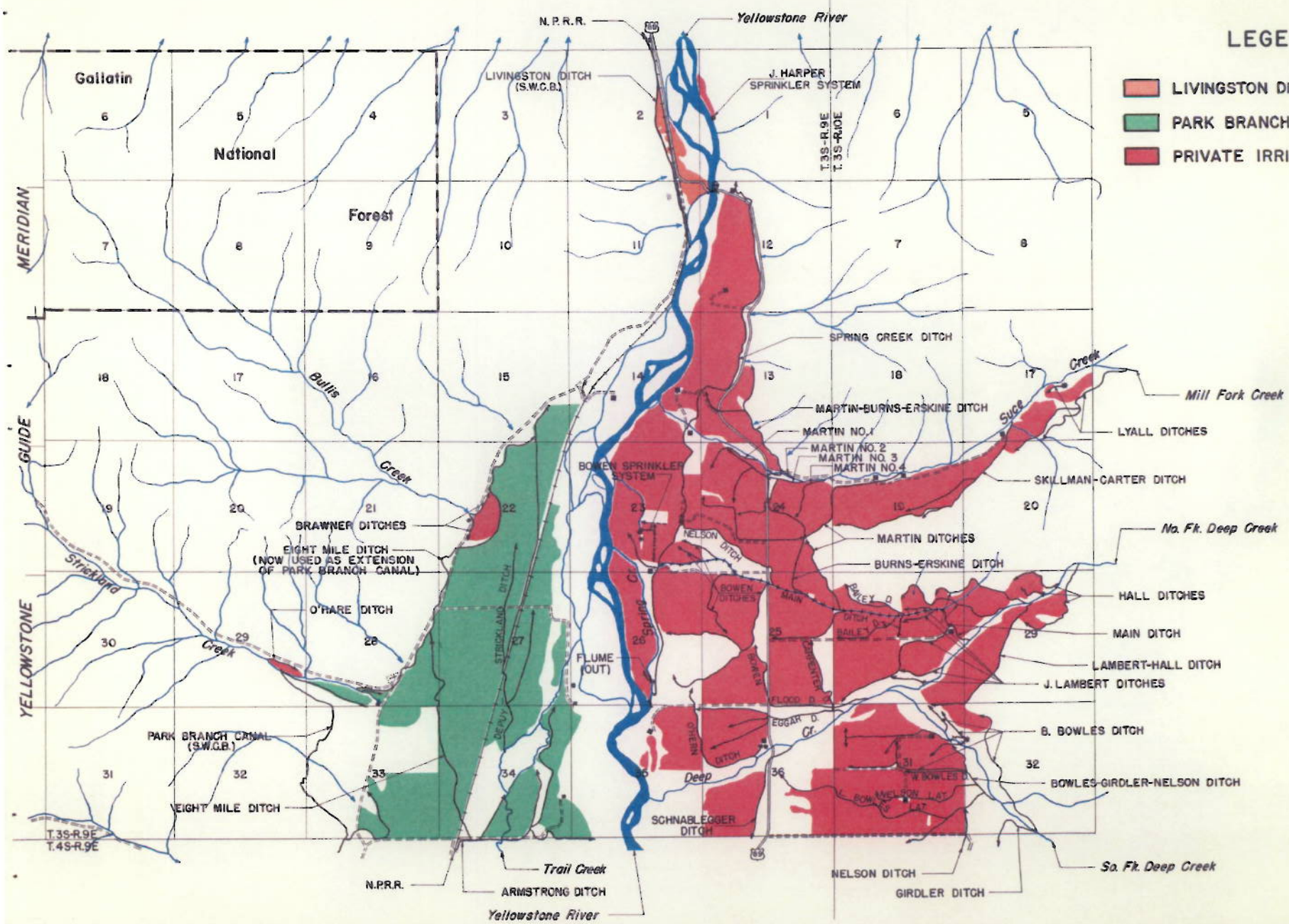
Township No. 2 SOUTH Range No. 9 EAST County PARK

T. 2 SOUTH
R. 9 EAST



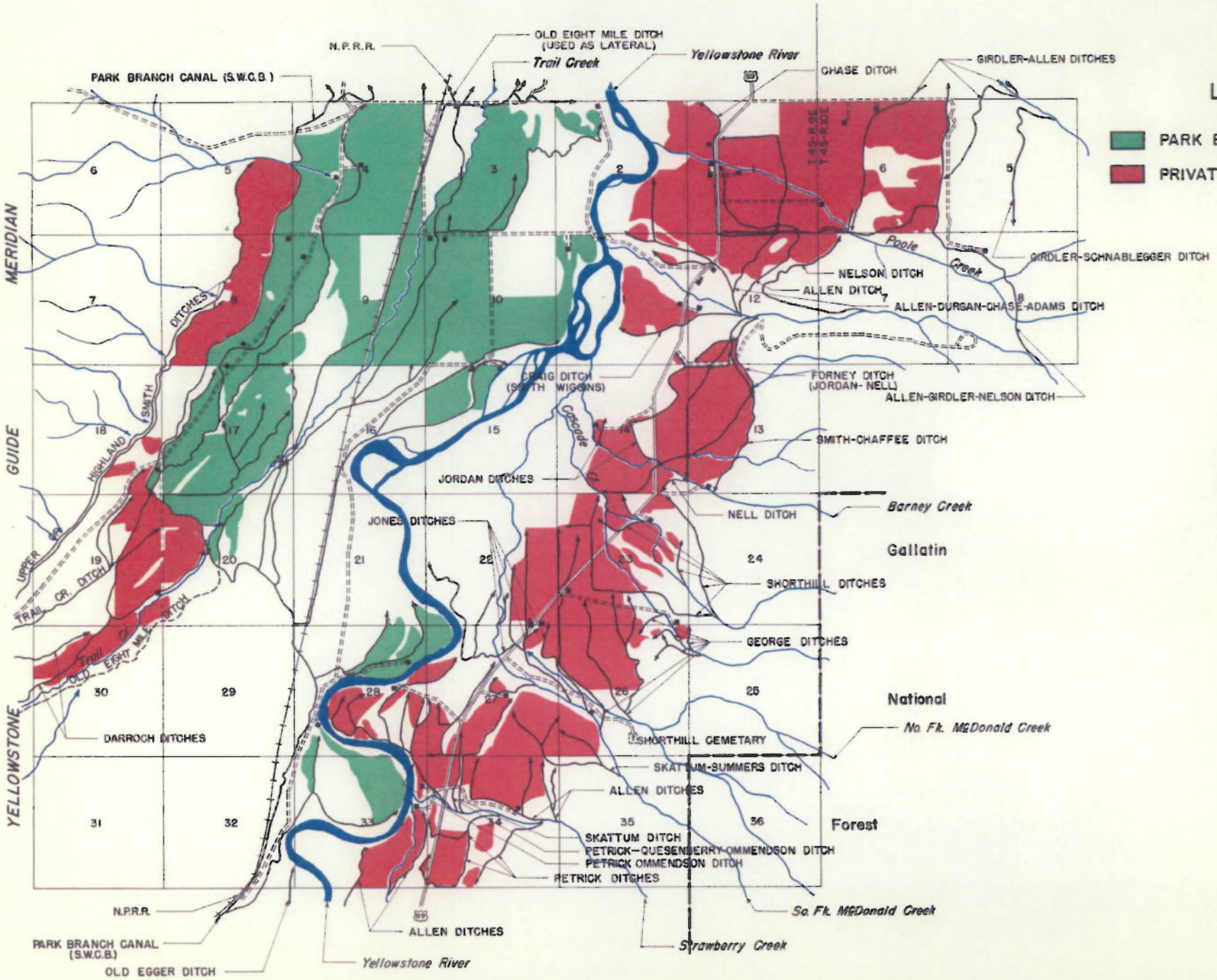
Township No. 3 SOUTH Range No. 9 EAST County PARK

T. 3 SOUTH
R. 9 EAST



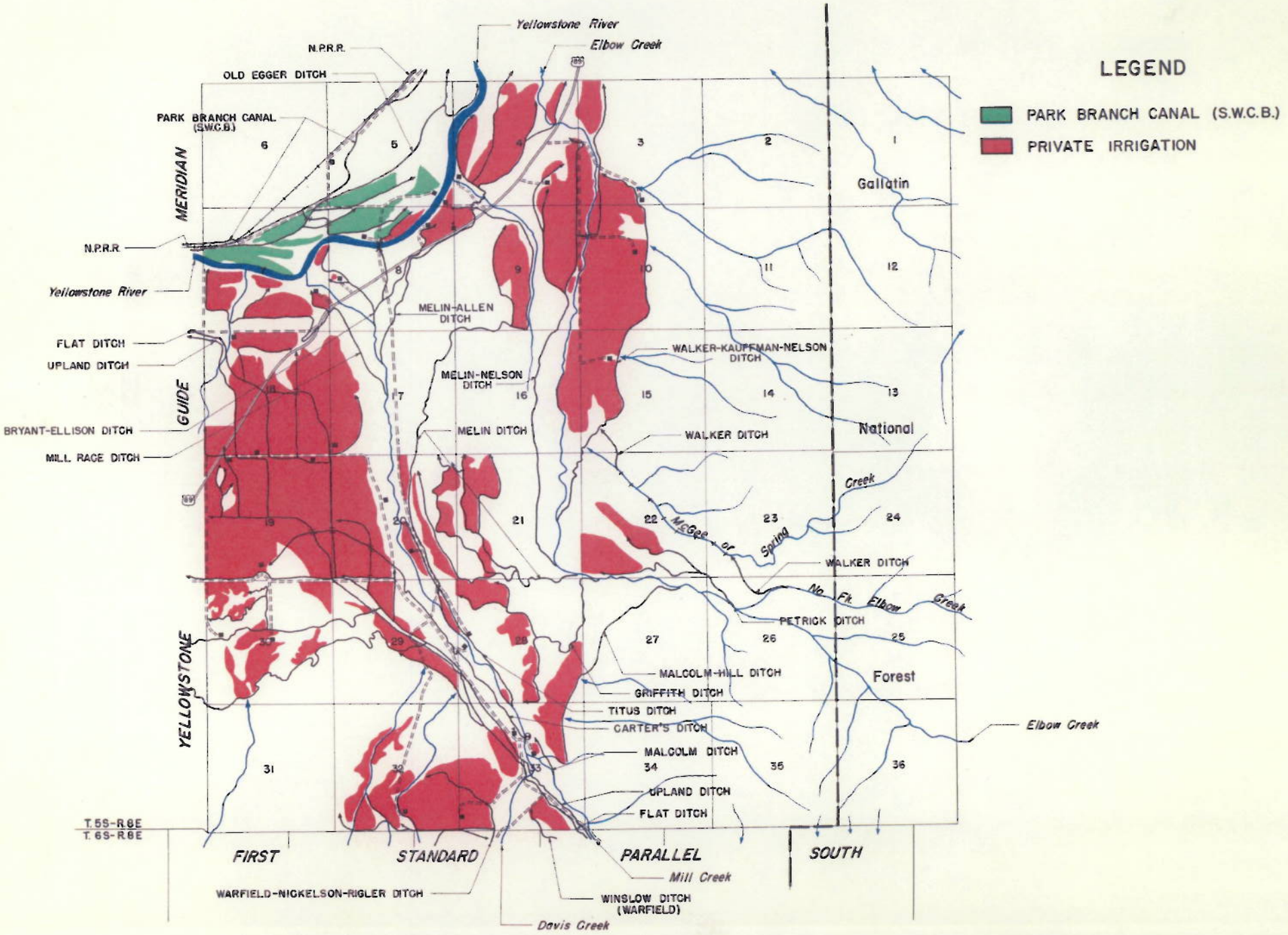
Township No. 4 SOUTH Range No. 9 EAST County PARK

T. 4 SOUTH
R. 9 EAST



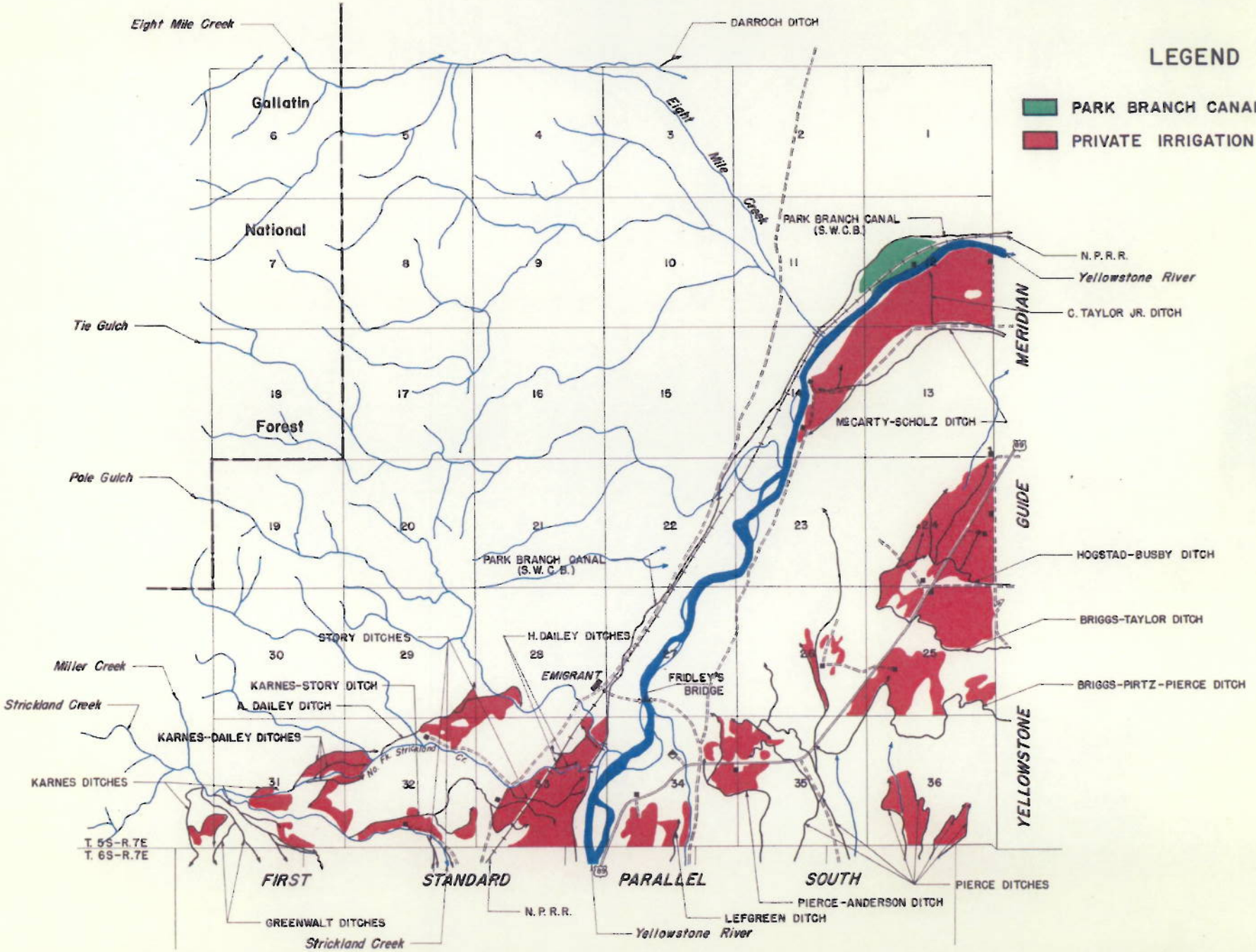
Township No. 5 SOUTH Range No. 9 EAST County PARK

T. 5 SOUTI
R. 9 EAST



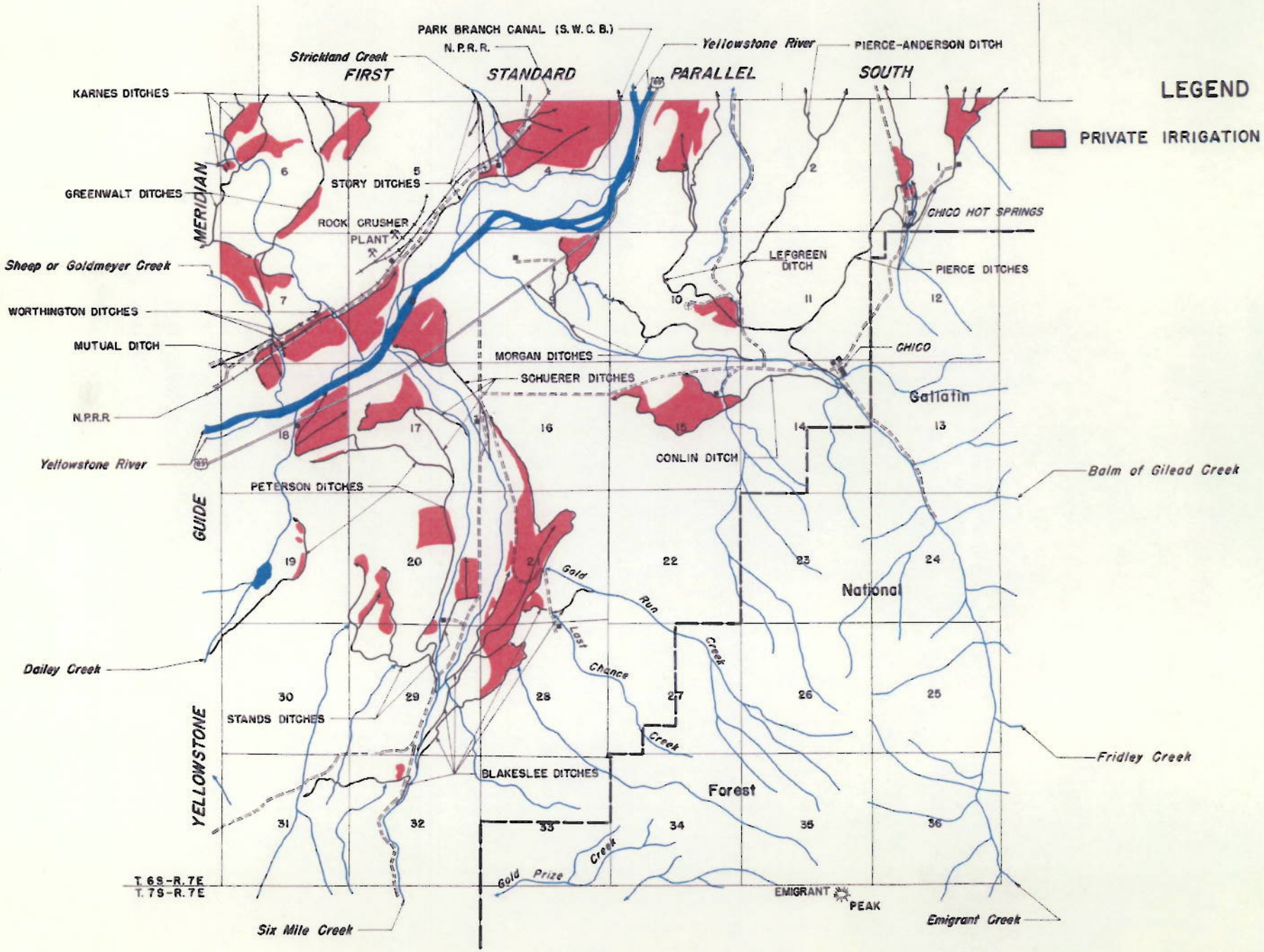
Township No. 5 SOUTH Range No. 8 EAST County PARK

T. 5 SOUTH
R. 8 EAST



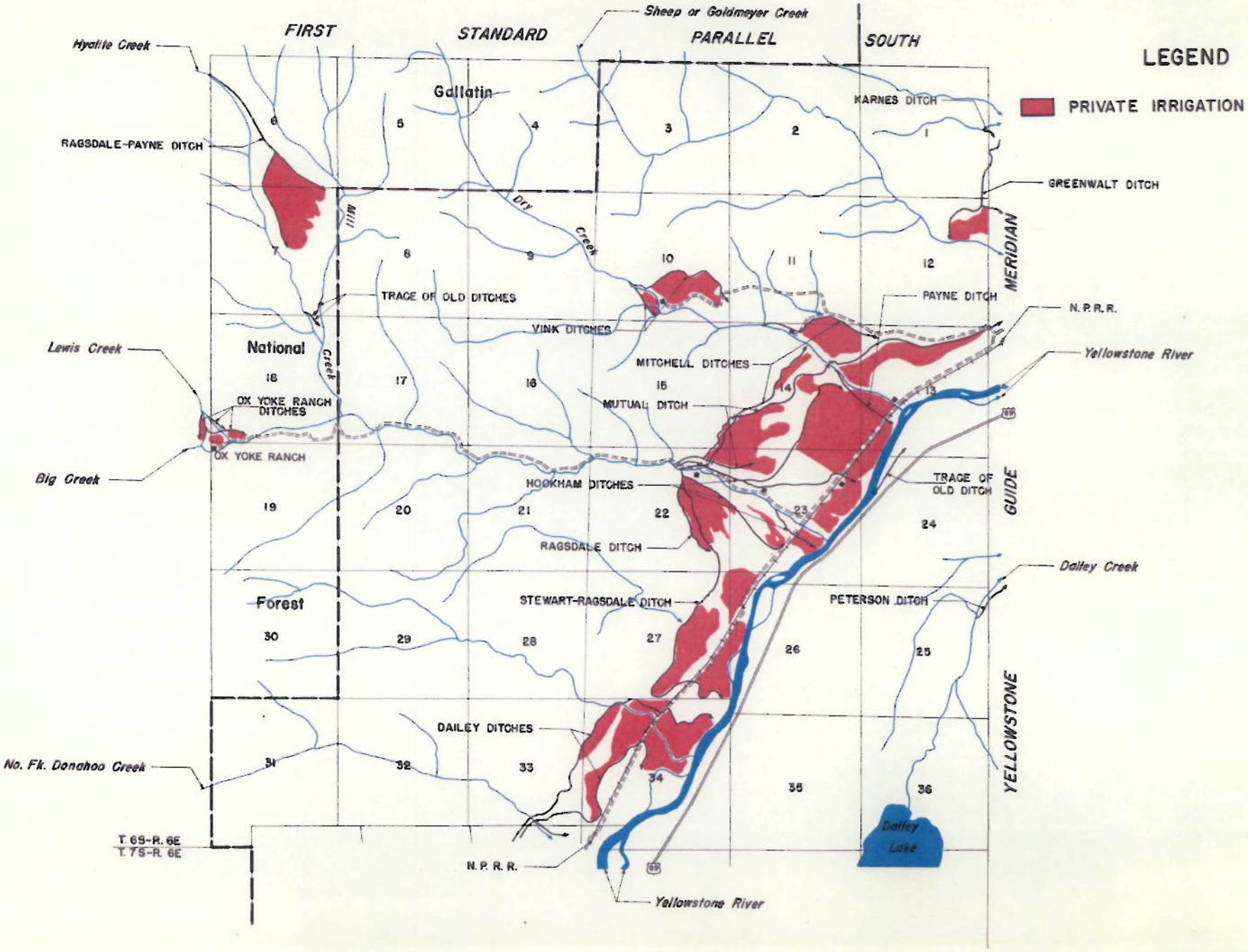
Township No. 6 SOUTH Range No. 8 EAST County PARK

T. 6 SOUTH
R. 8 EAST



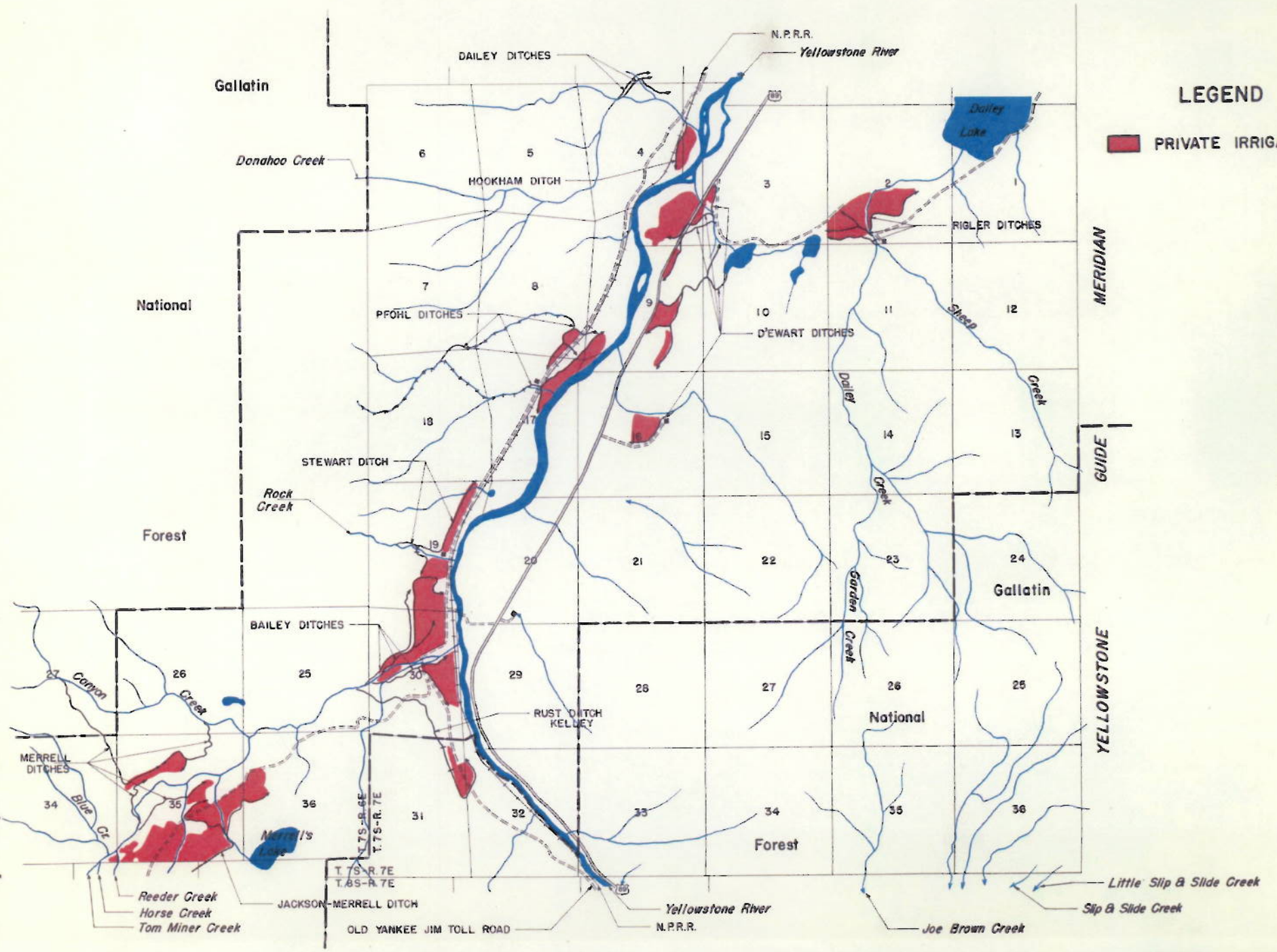
Township No. 6 SOUTH Range No. 7 EAST County PARK

T. 6 SOUTH
R. 7 EAST



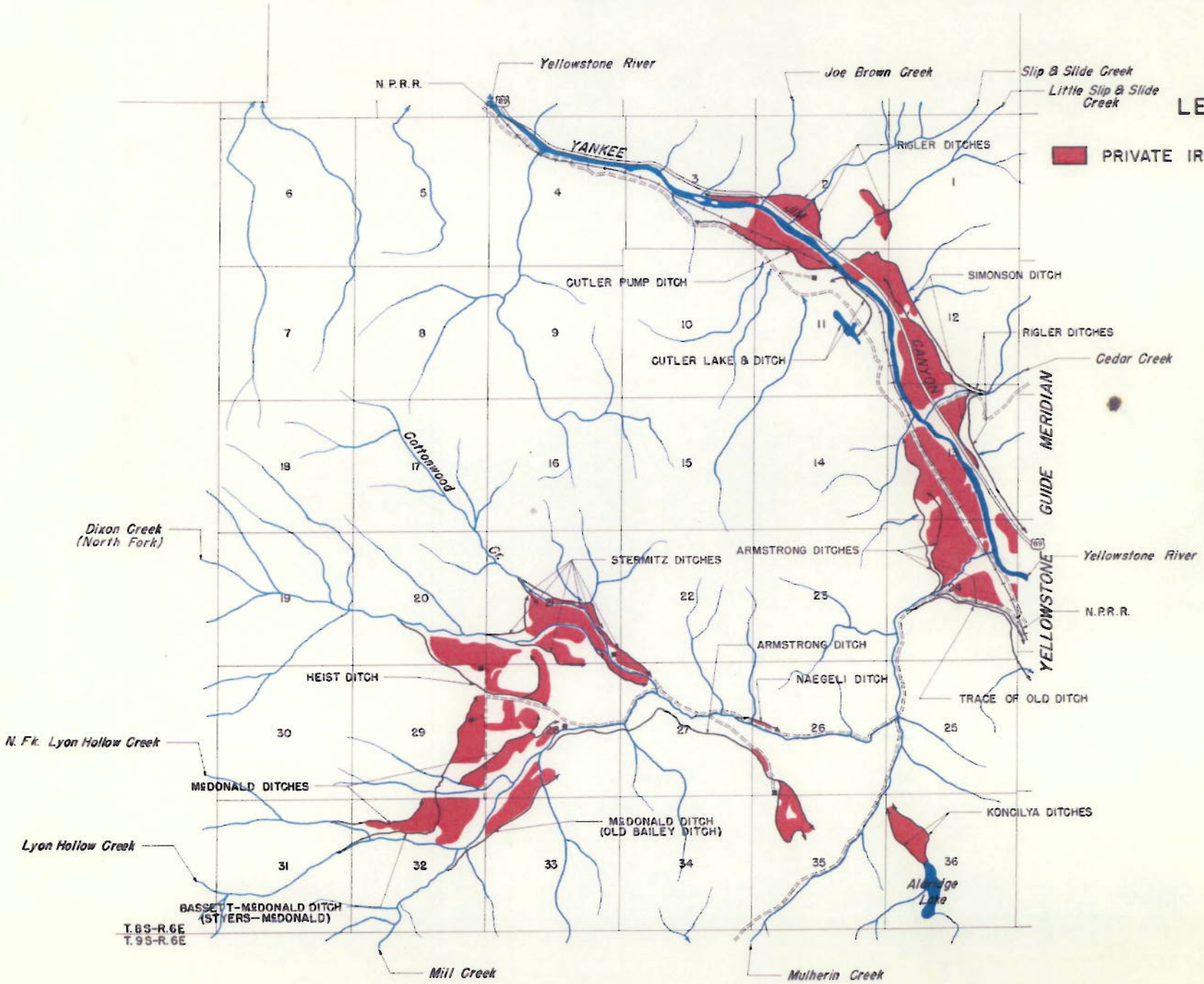
Township No. 7 SOUTH Range No. 7 EAST County PARK

T. 7 SOUTH
R. 7 EAST



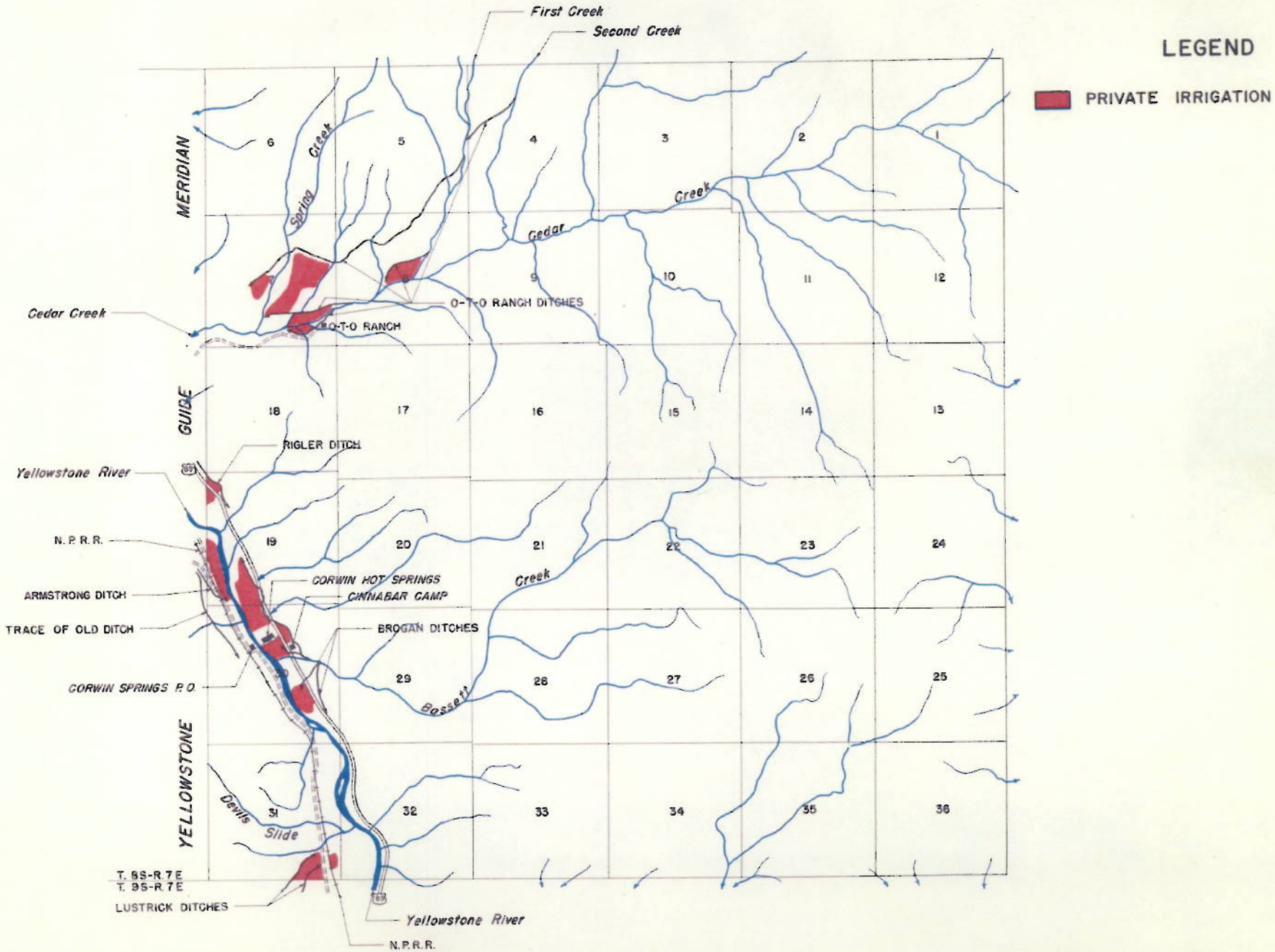
Township No. 8 SOUTH Range No. 7 EAST County PARK

T. 8 SOUTH
R. 7 EAST



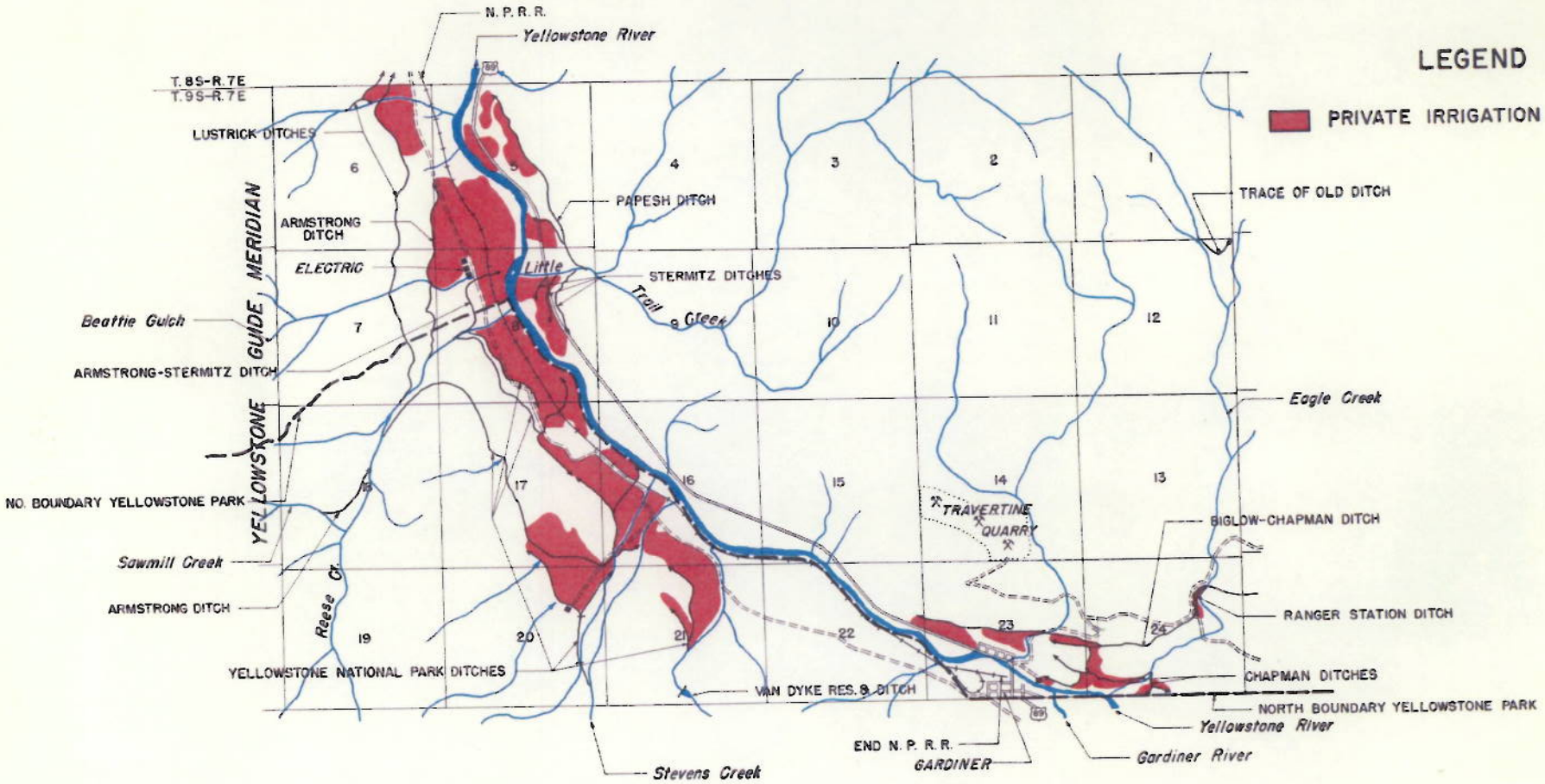
Township No. 8 SOUTH Range No. 8 EAST County PARK

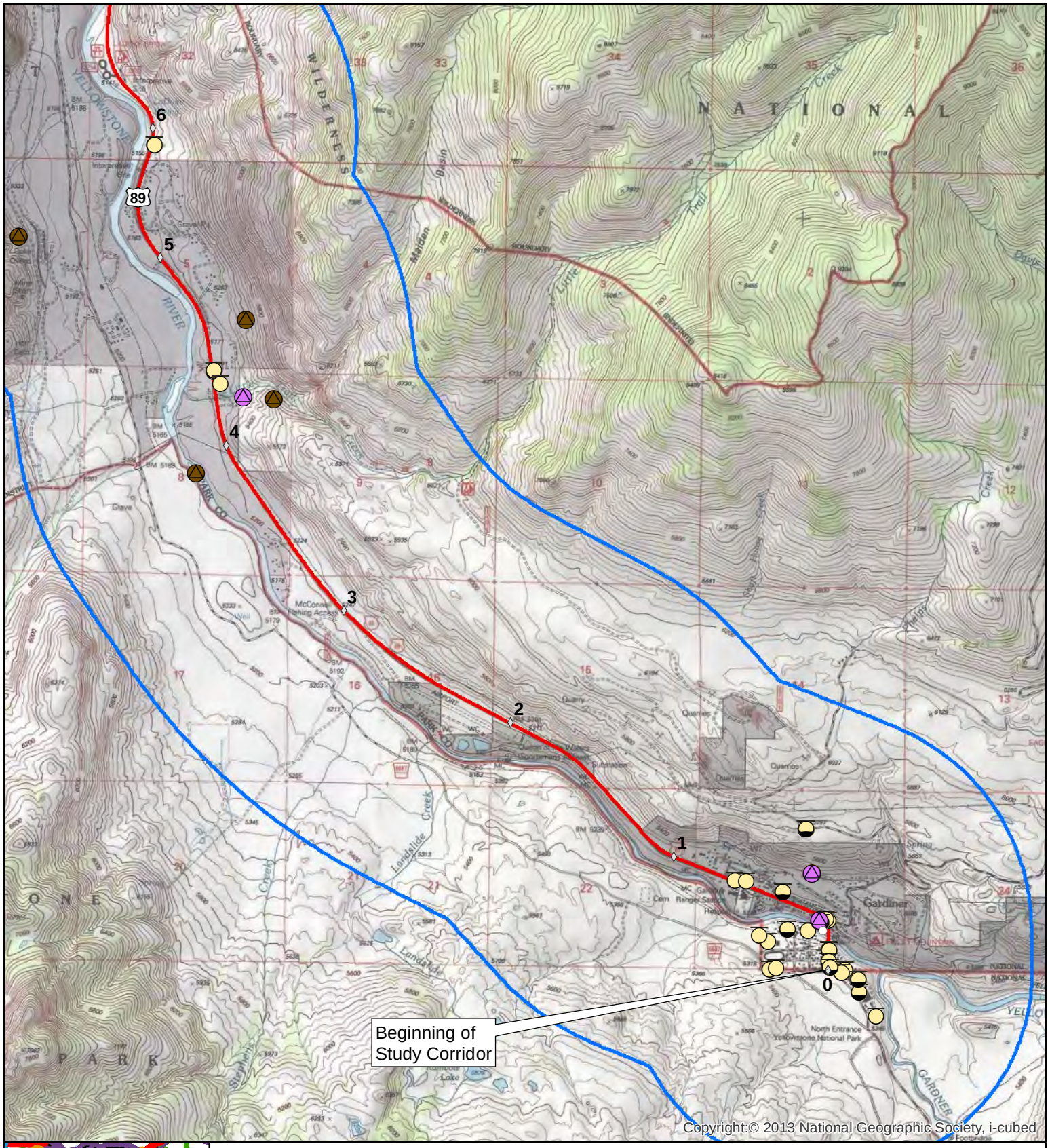
T. 8 SOUTH
R. 8 EAST

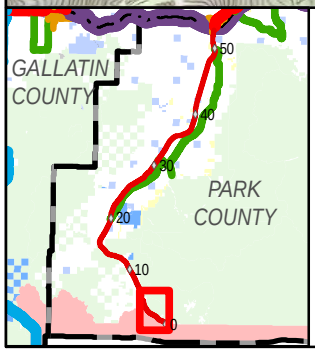


Township No. 9 SOUTH Range No. 8 EAST County PARK

T. 9 SOUTH
R. 8 EAST





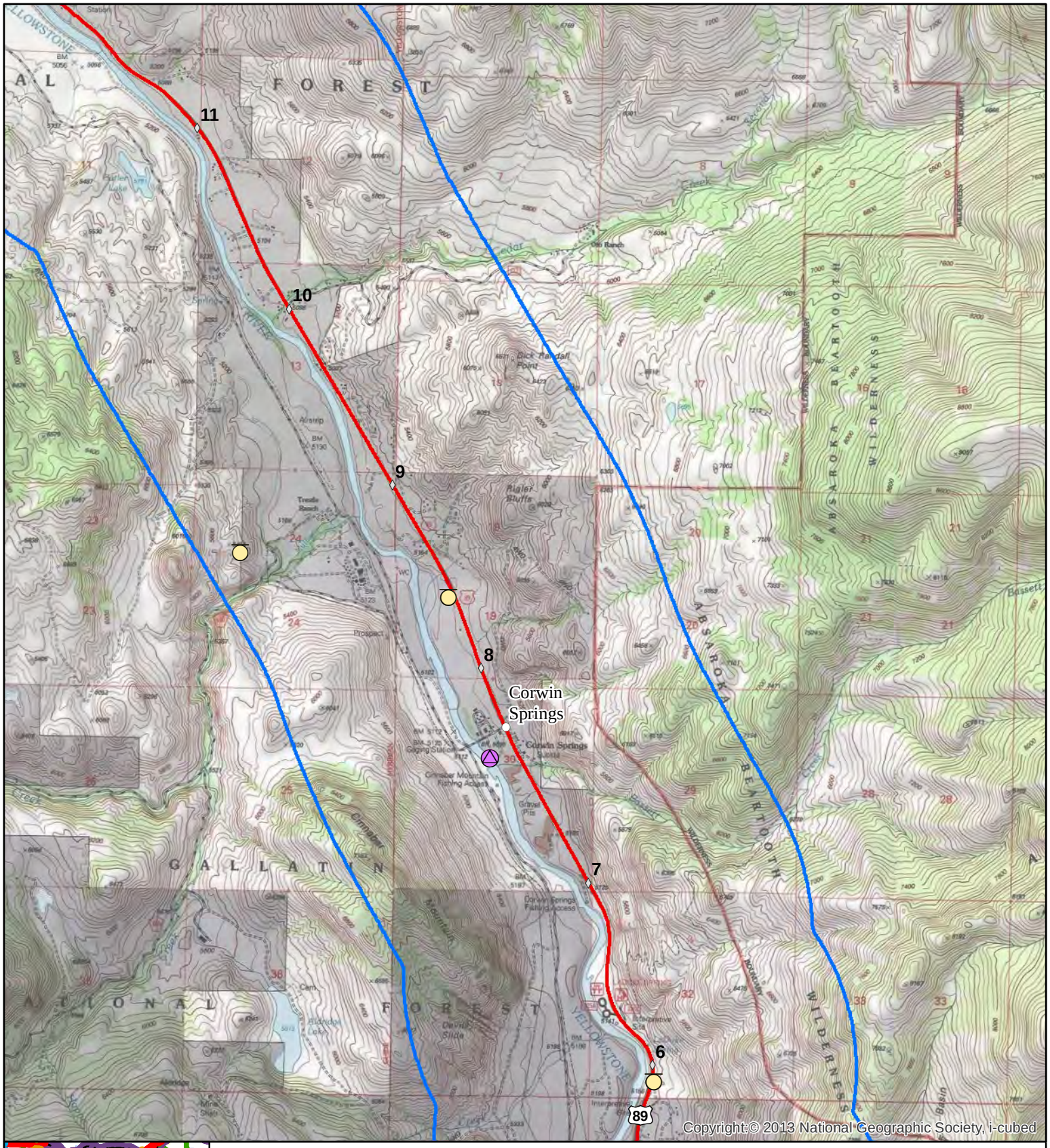


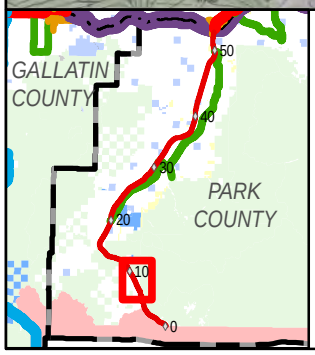
Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- Abandoned and Inactive Mines (MBMG, 2004)
- DEQ Abandoned Mines Inventory
- Mines (US Bureau of Mines, 1992)
- LUST Facilities
- UST Facilities

0 0.25 0.5 0.75 Miles

Figure 2.9-1:UST Facilities, LUST Facilities, and Mines - Reference Markers 0-6



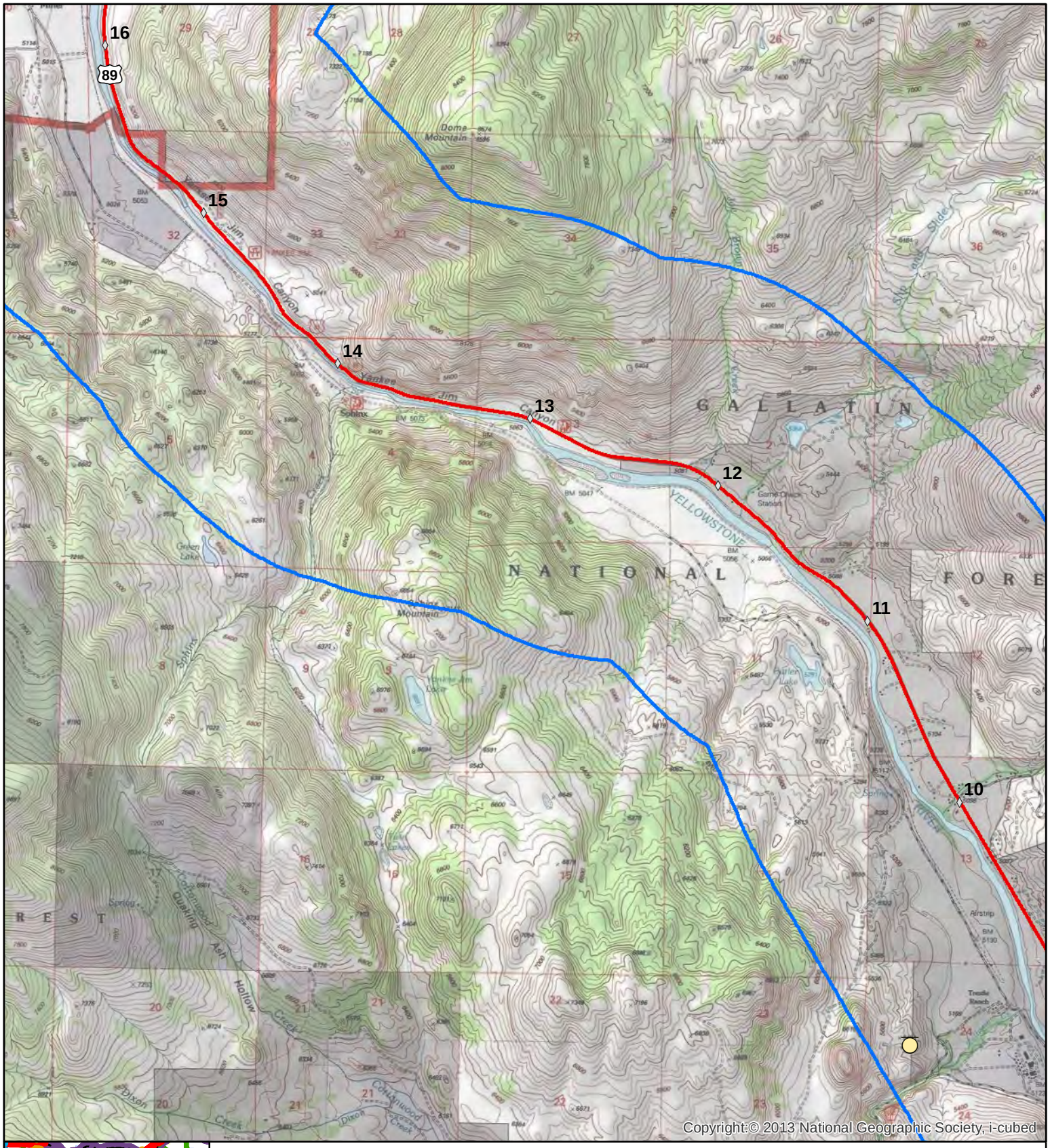


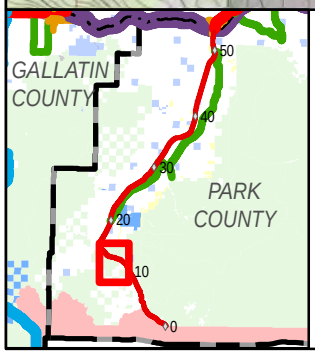
Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- Abandoned and Inactive Mines (MBMG, 2004)
- Mines (US Bureau of Mines, 1992)
- UST Facilities

0 0.25 0.5 0.75 Miles

Figure 2.9-2:UST Facilities, LUST Facilities, and Mines - Reference Markers 6-11



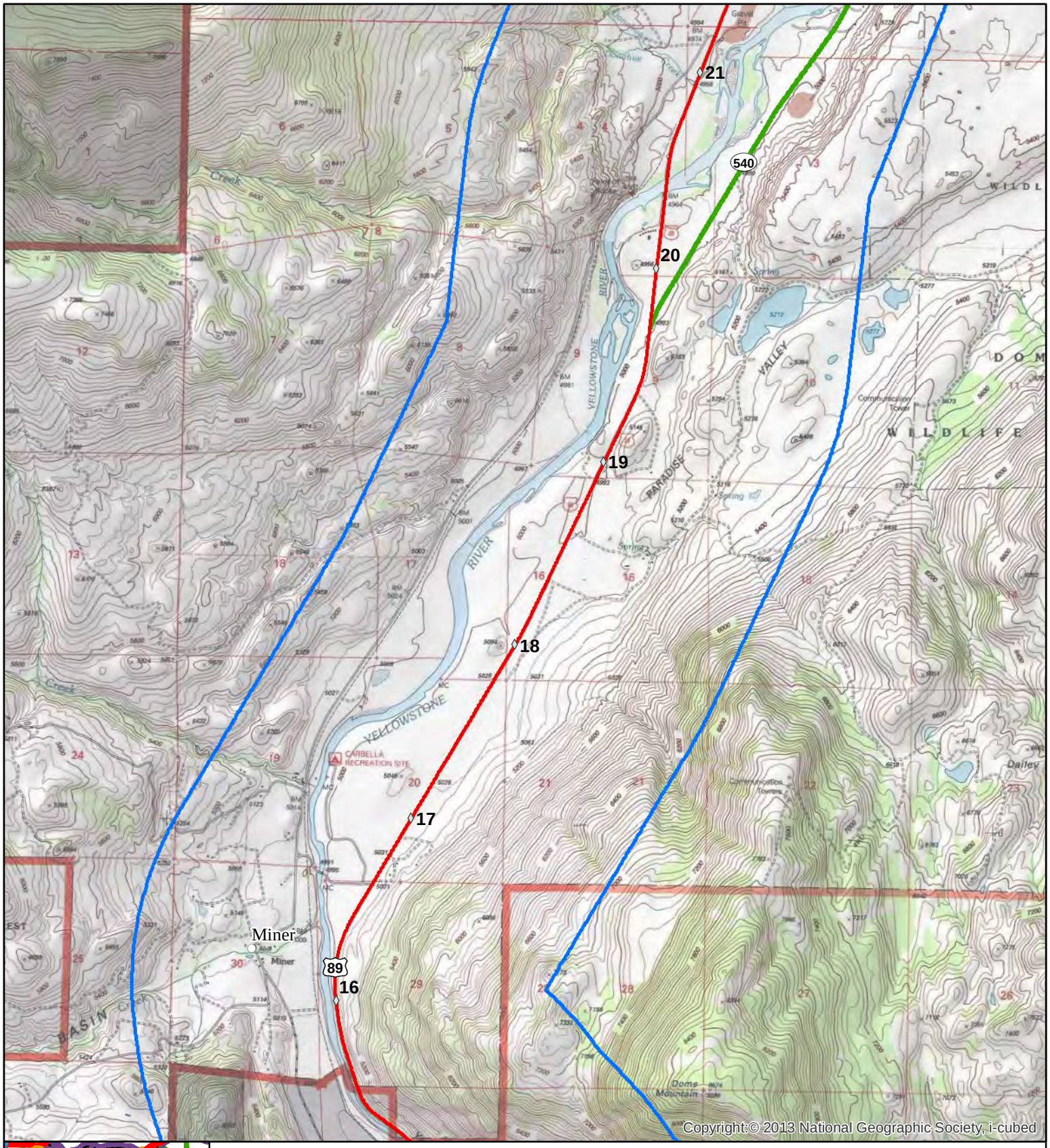


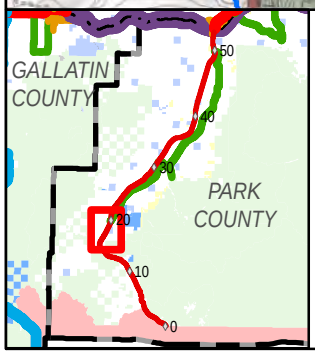
Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- UST Facilities

0 0.25 0.5 0.75 Miles

Figure 2.9-3:UST Facilities, LUST Facilities, and Mines - Reference Markers 10-16





Map Legend

- ◊ Reference Markers
- US 89 Study Corridor
- US 89 Study Area

0 0.25 0.5 0.75 Miles

Figure 2.9-4:UST Facilities, LUST Facilities, and Mines - Reference Markers 16-21

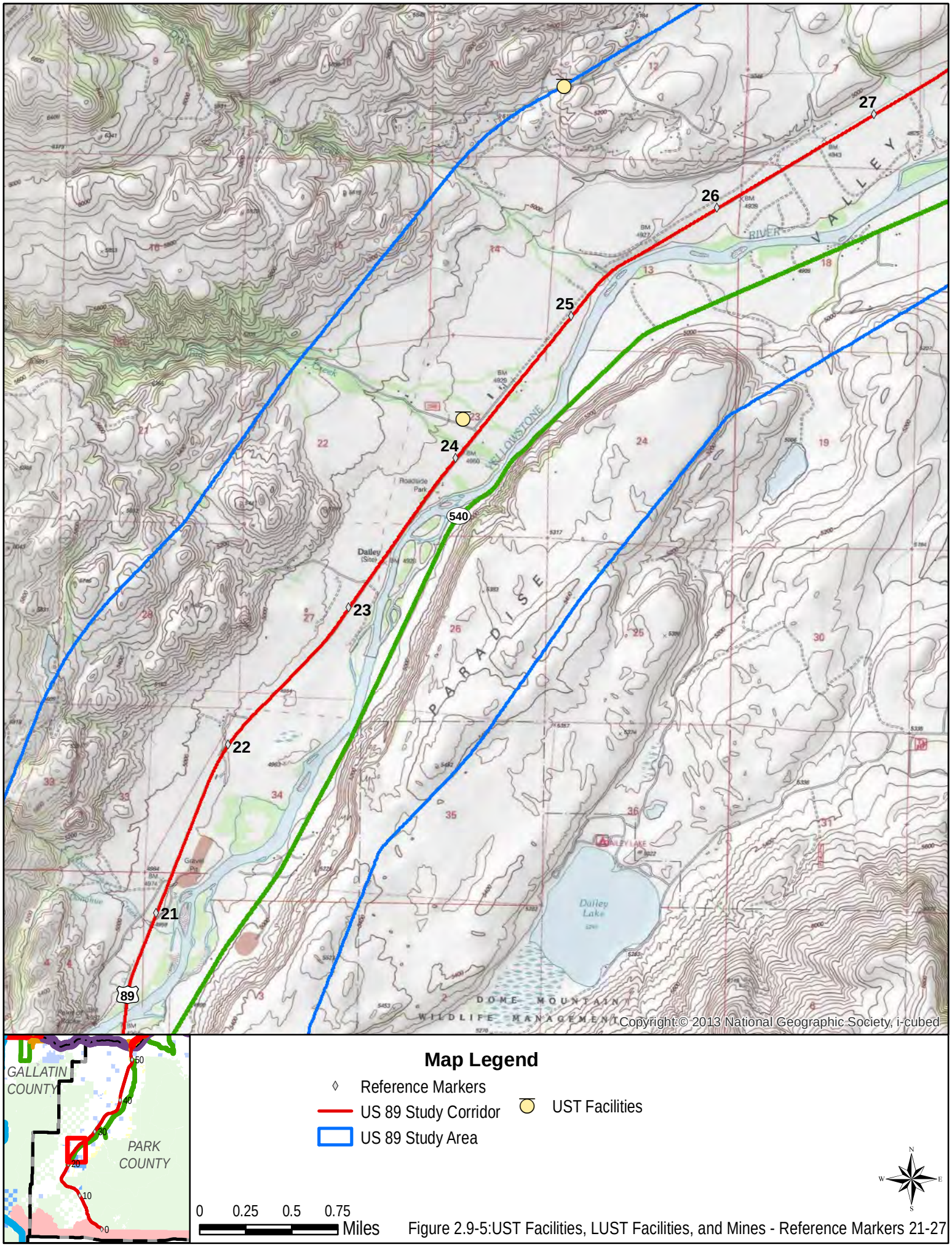
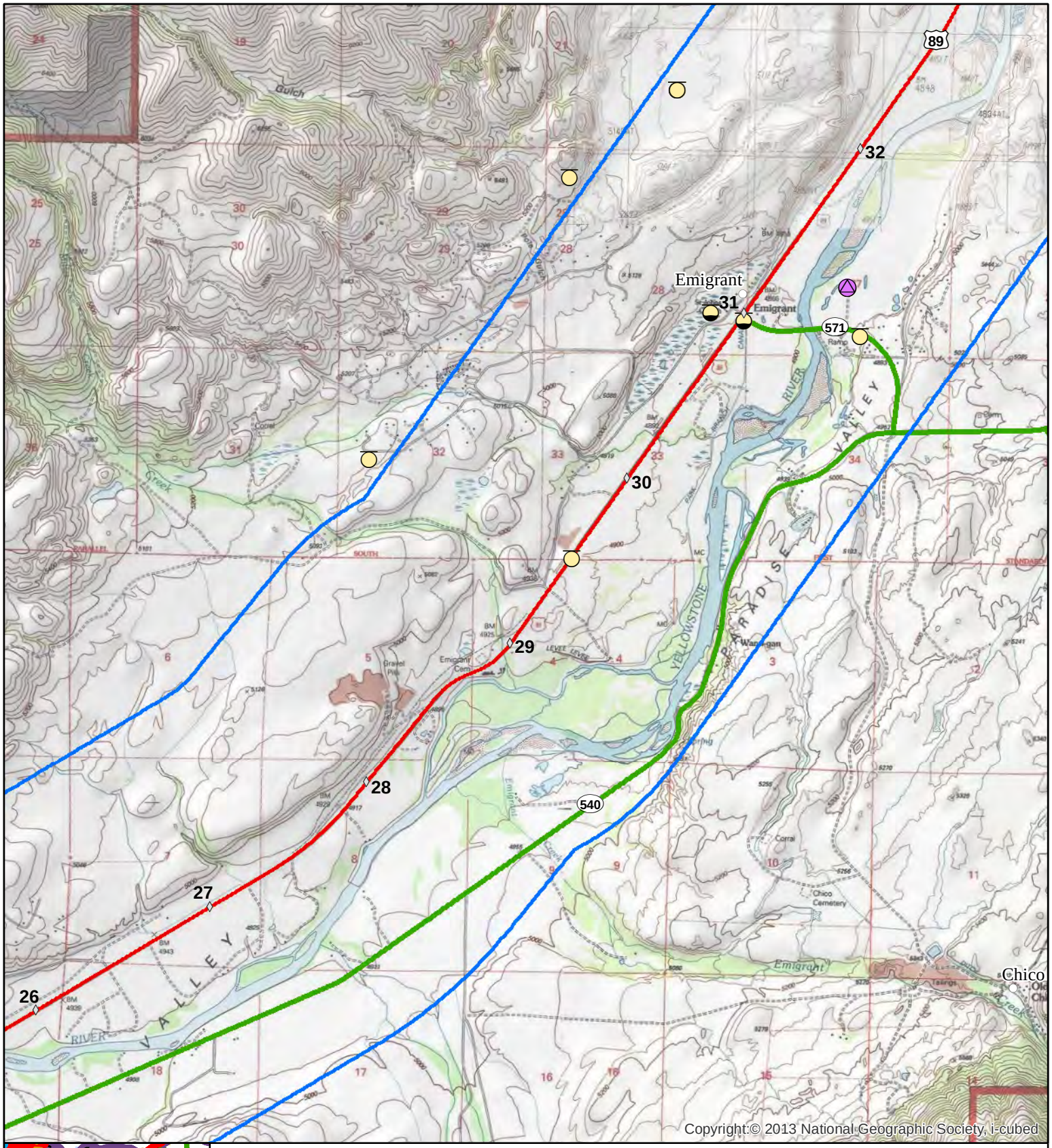
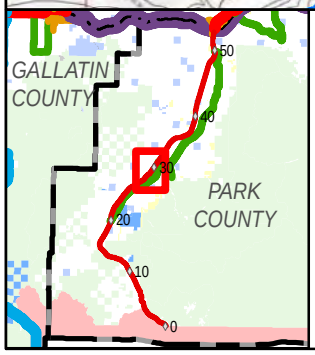


Figure 2.9-5:UST Facilities, LUST Facilities, and Mines - Reference Markers 21-27



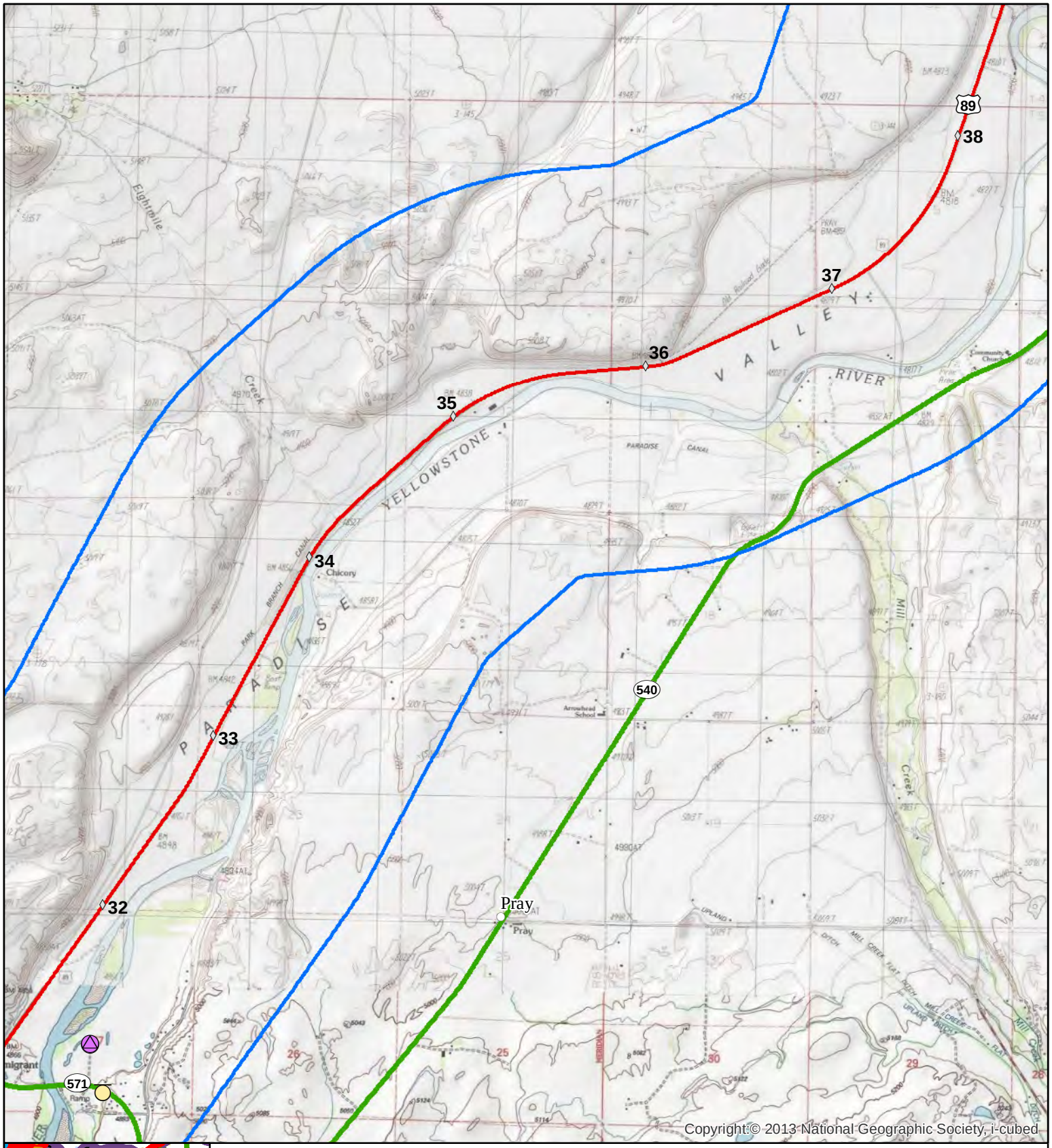


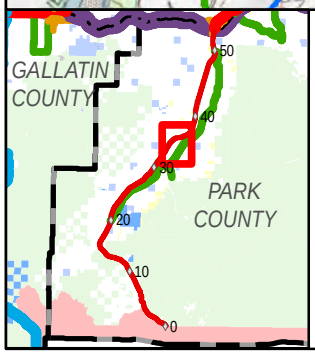
Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- Abandoned and Inactive Mines (MBMG, 2004)
- Mines (US Bureau of Mines, 1992)
- LUST Facilities
- UST Facilities

0 0.25 0.5 0.75 Miles

Figure 2.9-6:UST Facilities, LUST Facilities, and Mines - Reference Markers 26-32



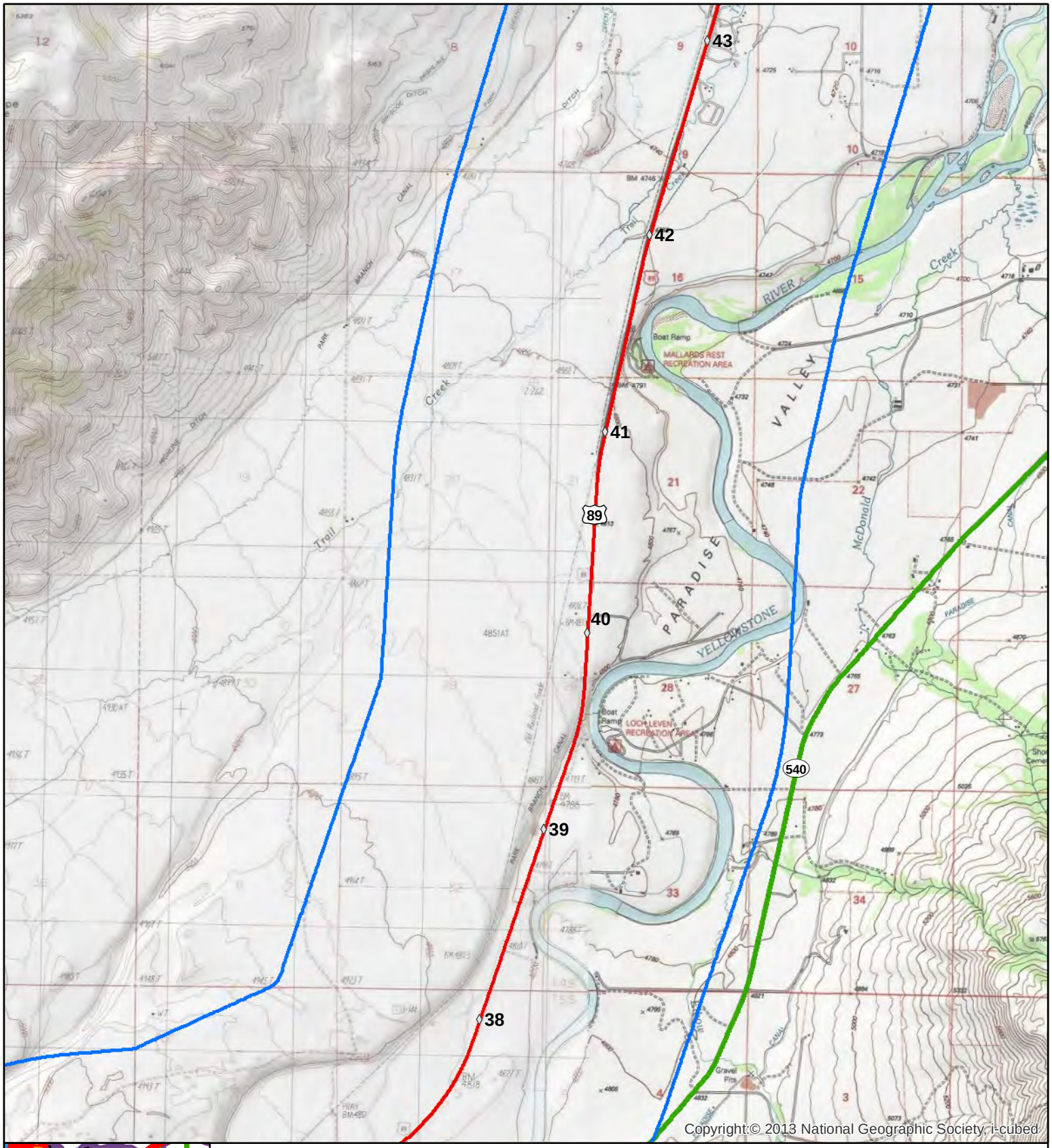


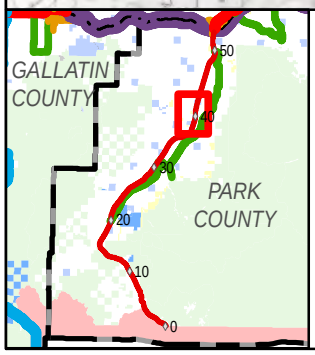
Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- Abandoned and Inactive Mines (MBMG, 2004)
- Mines (US Bureau of Mines, 1992)
- UST Facilities

0 0.25 0.5 0.75 Miles

Figure 2.9-7:UST Facilities, LUST Facilities, and Mines - Reference Markers 32-38



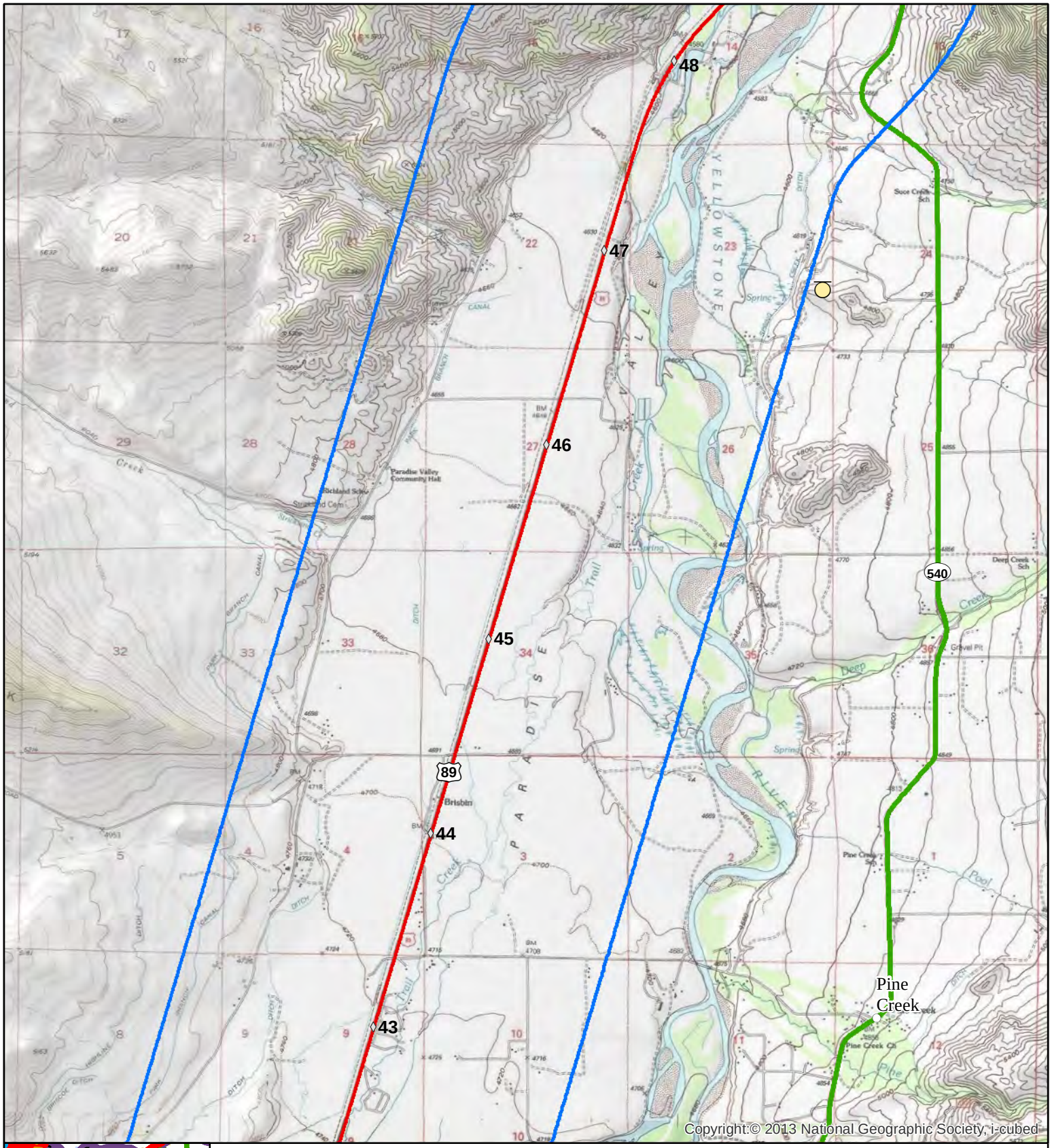


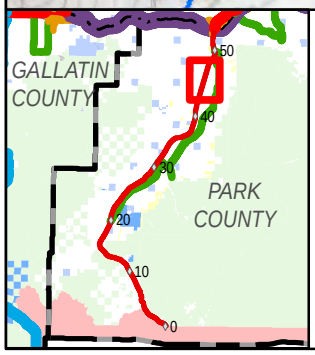
Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area

0 0.25 0.5 0.75 Miles

Figure 2.9-8:UST Facilities, LUST Facilities, and Mines - Reference Markers 38-43





Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- UST Facilities

0 0.25 0.5 0.75 Miles

Figure 2.9-9:UST Facilities, LUST Facilities, and Mines - Reference Markers 43-48

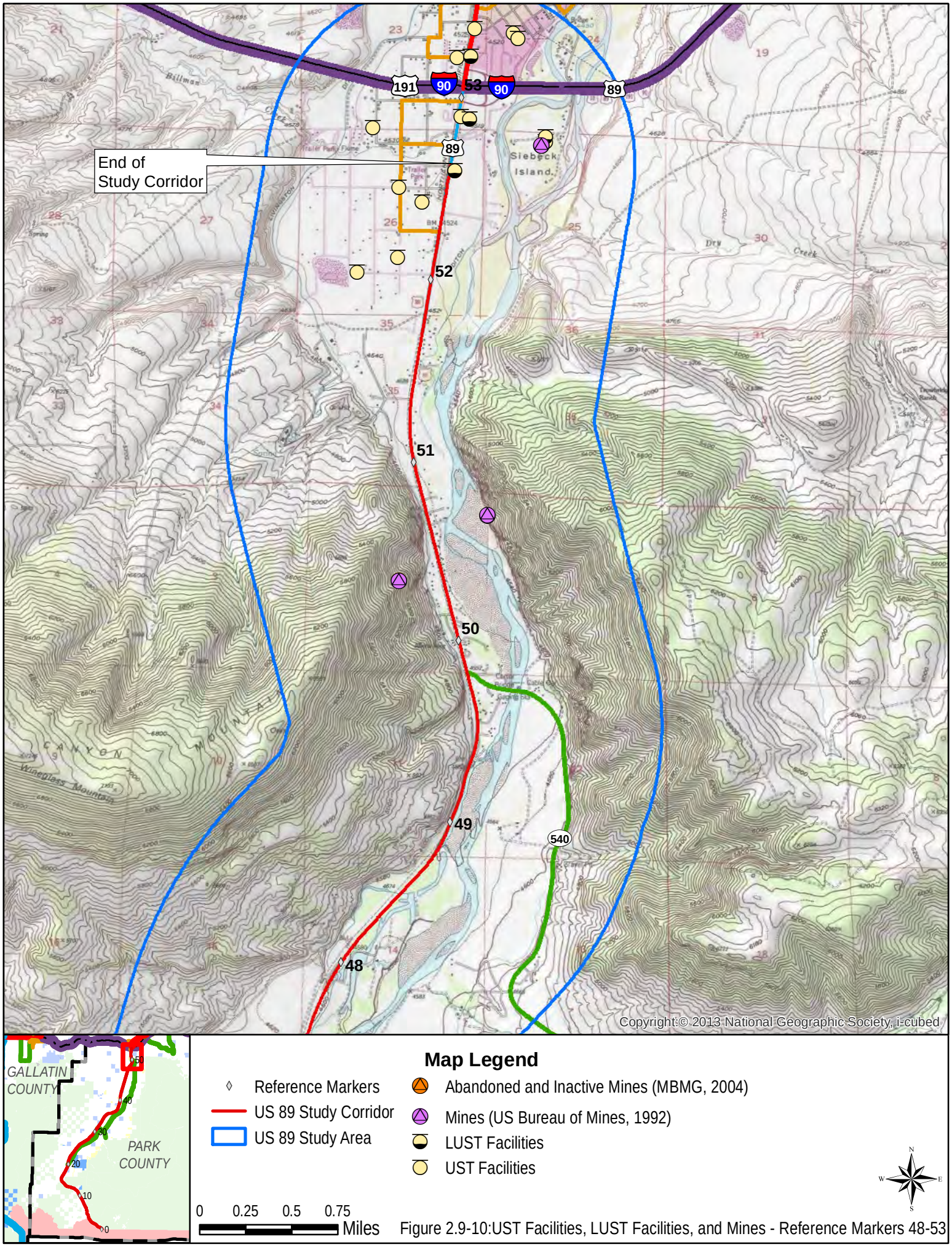
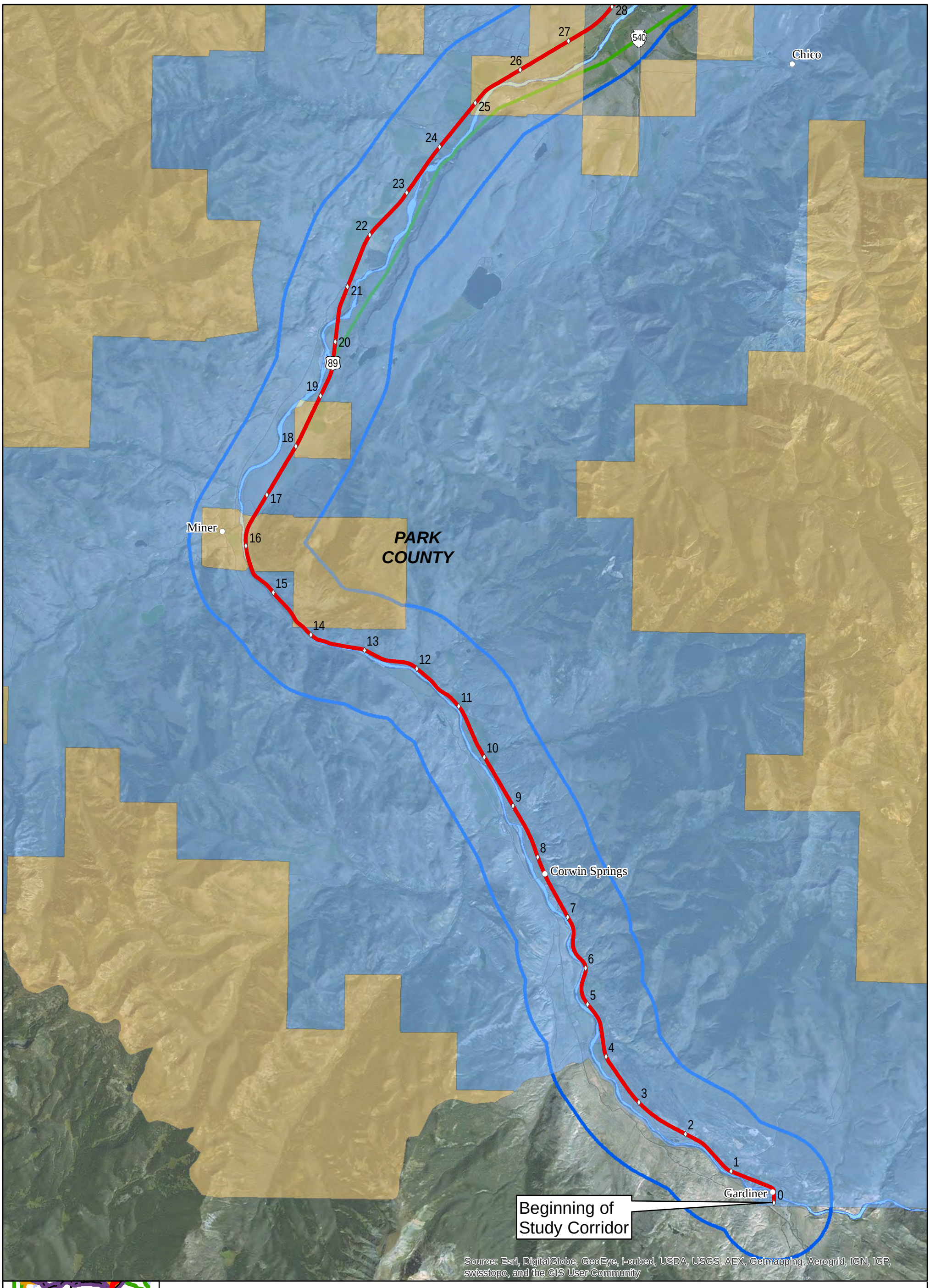
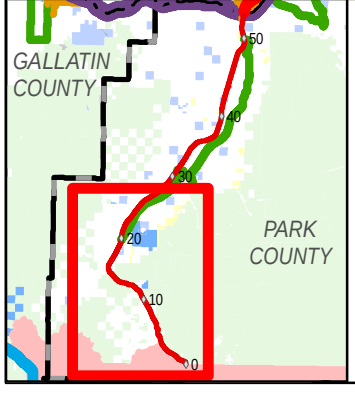


Figure 2.9-10:UST Facilities, LUST Facilities, and Mines - Reference Markers 48-53





Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- Yellowstone River

Elk Distribution

- General
- Winter

0 1 2 3 Miles

N W E S

Figure 3.1-1: Elk Distribution

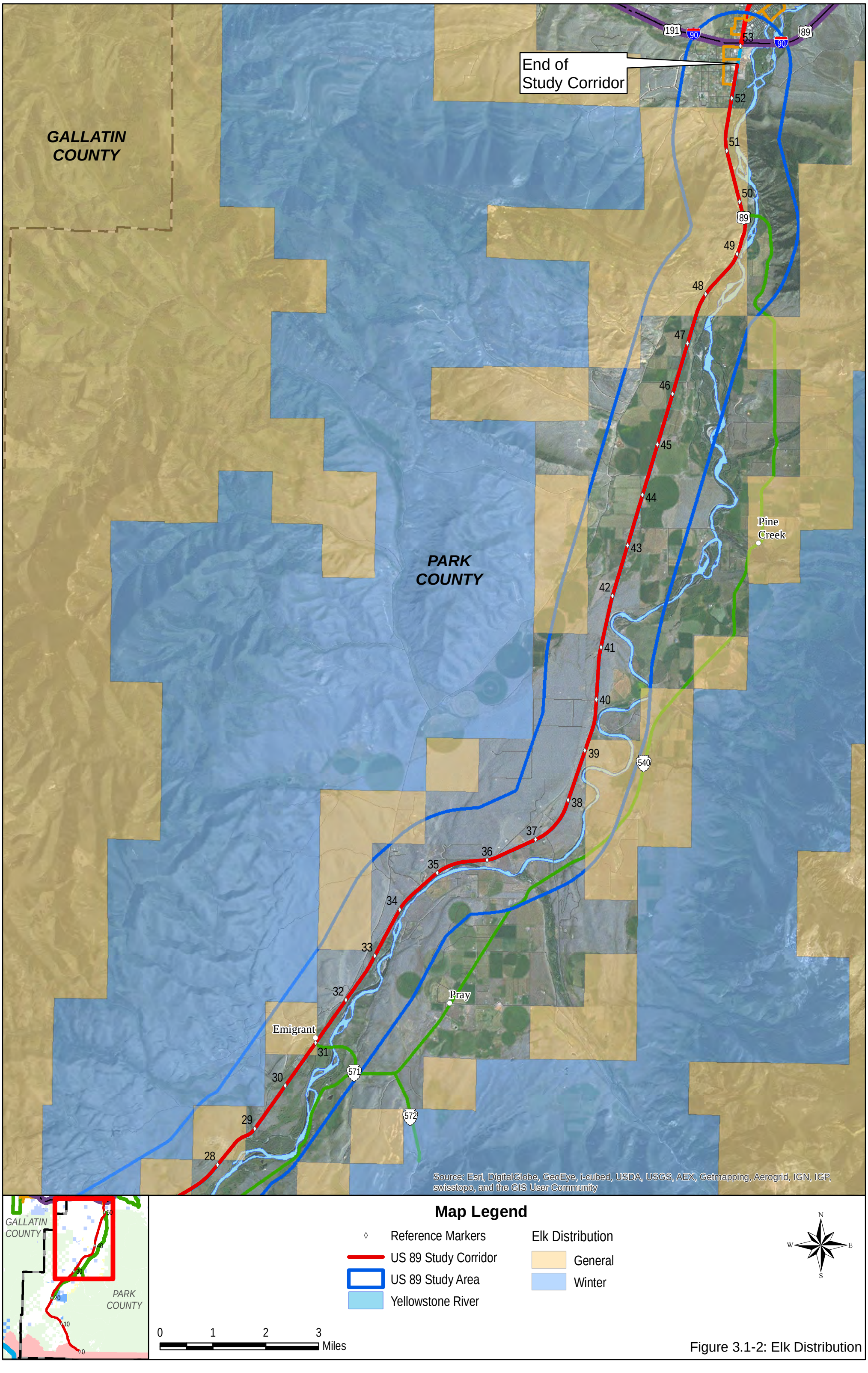


Figure 3.1-2: Elk Distribution

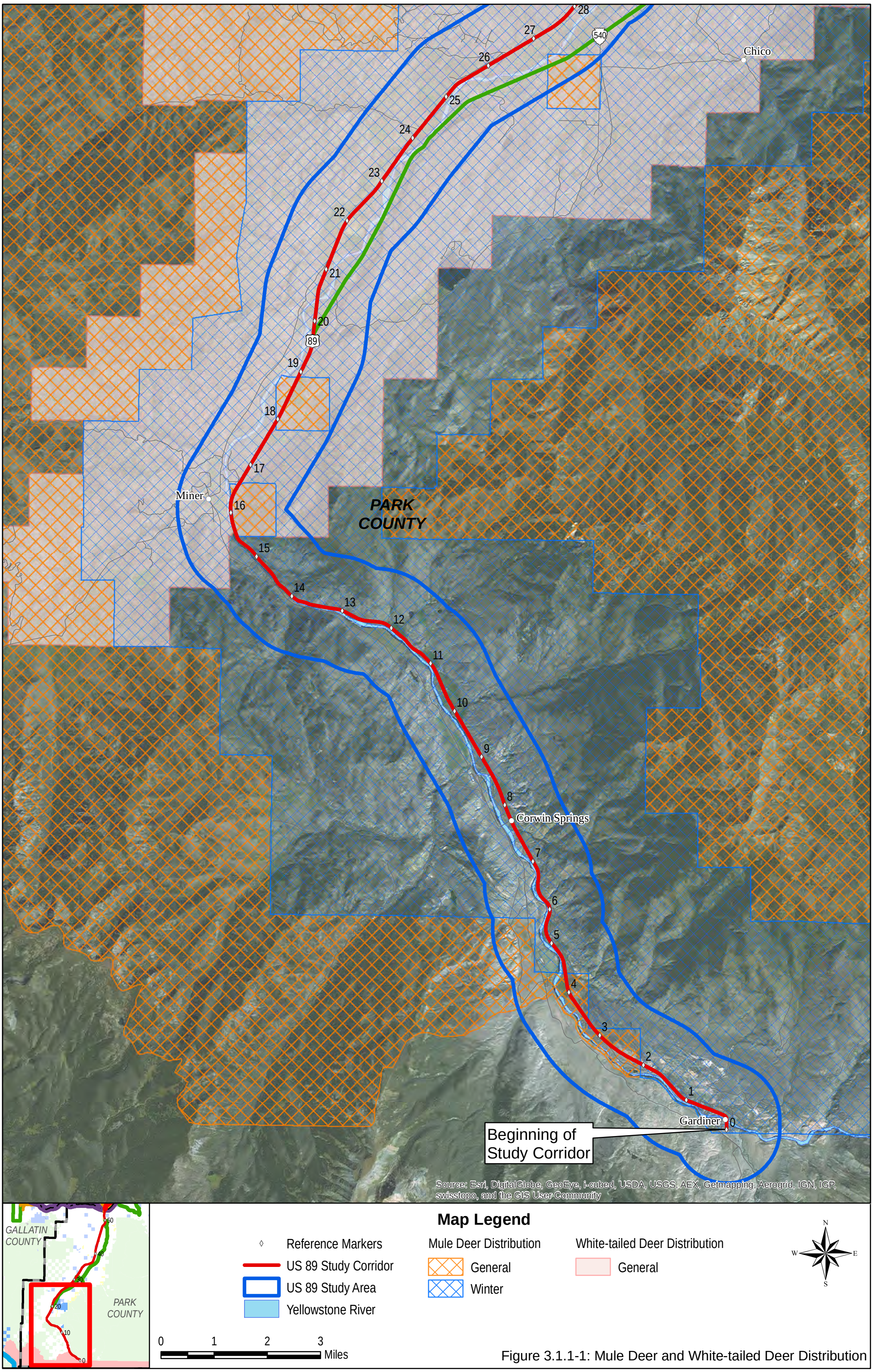


Figure 3.1.1-1: Mule Deer and White-tailed Deer Distribution

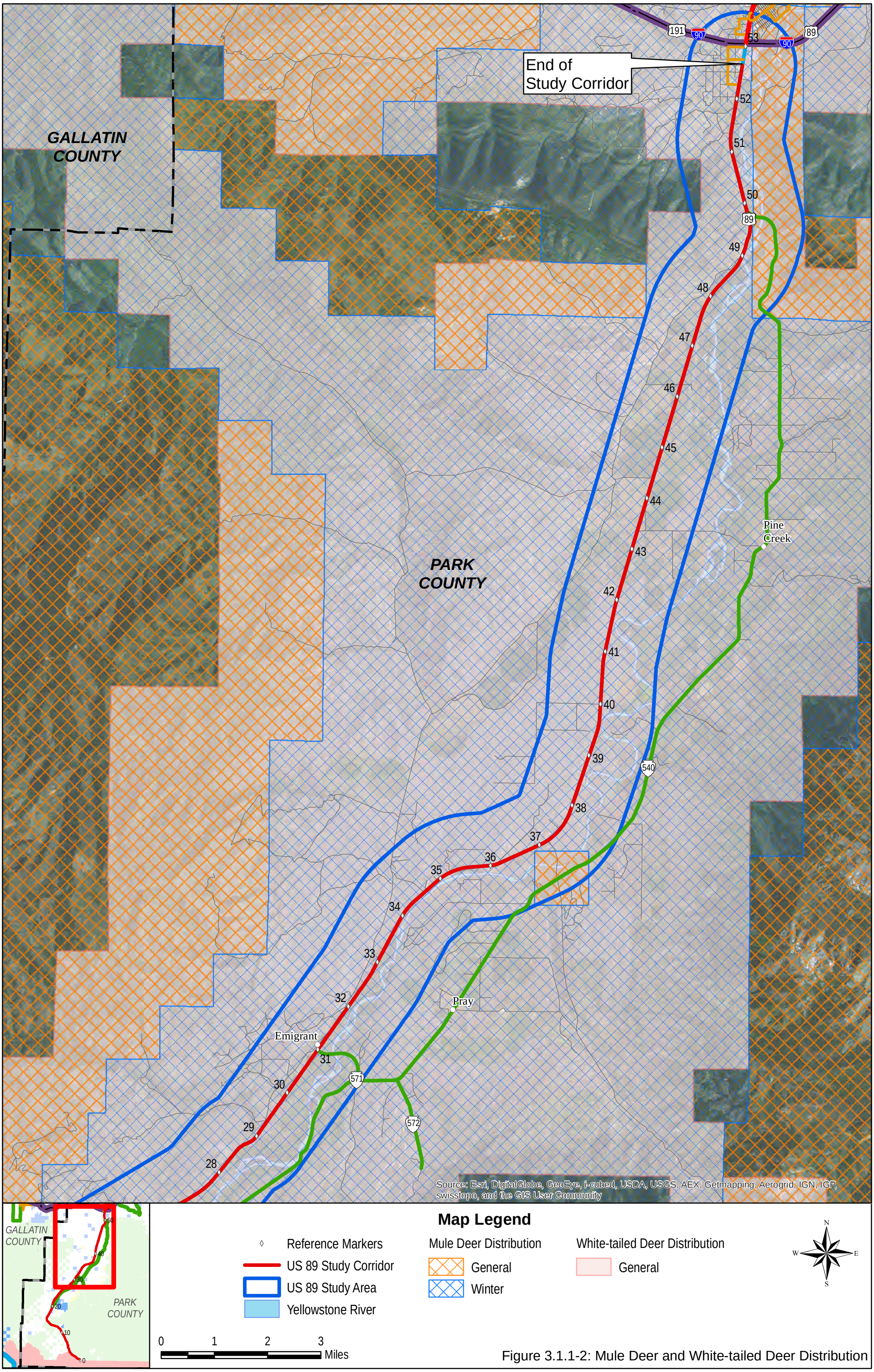


Figure 3.1.1-2: Mule Deer and White-tailed Deer Distribution

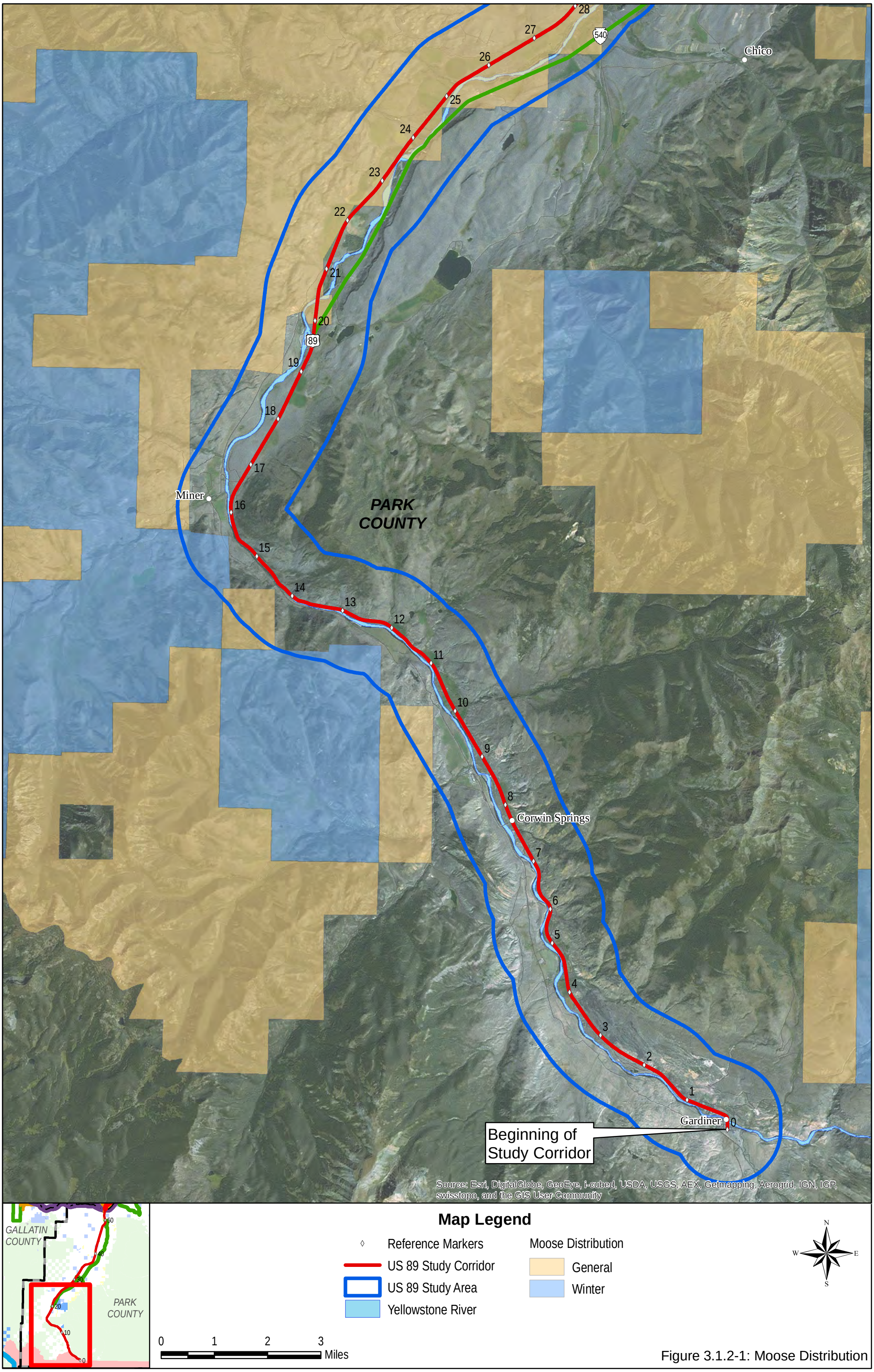


Figure 3.1.2-1: Moose Distribution

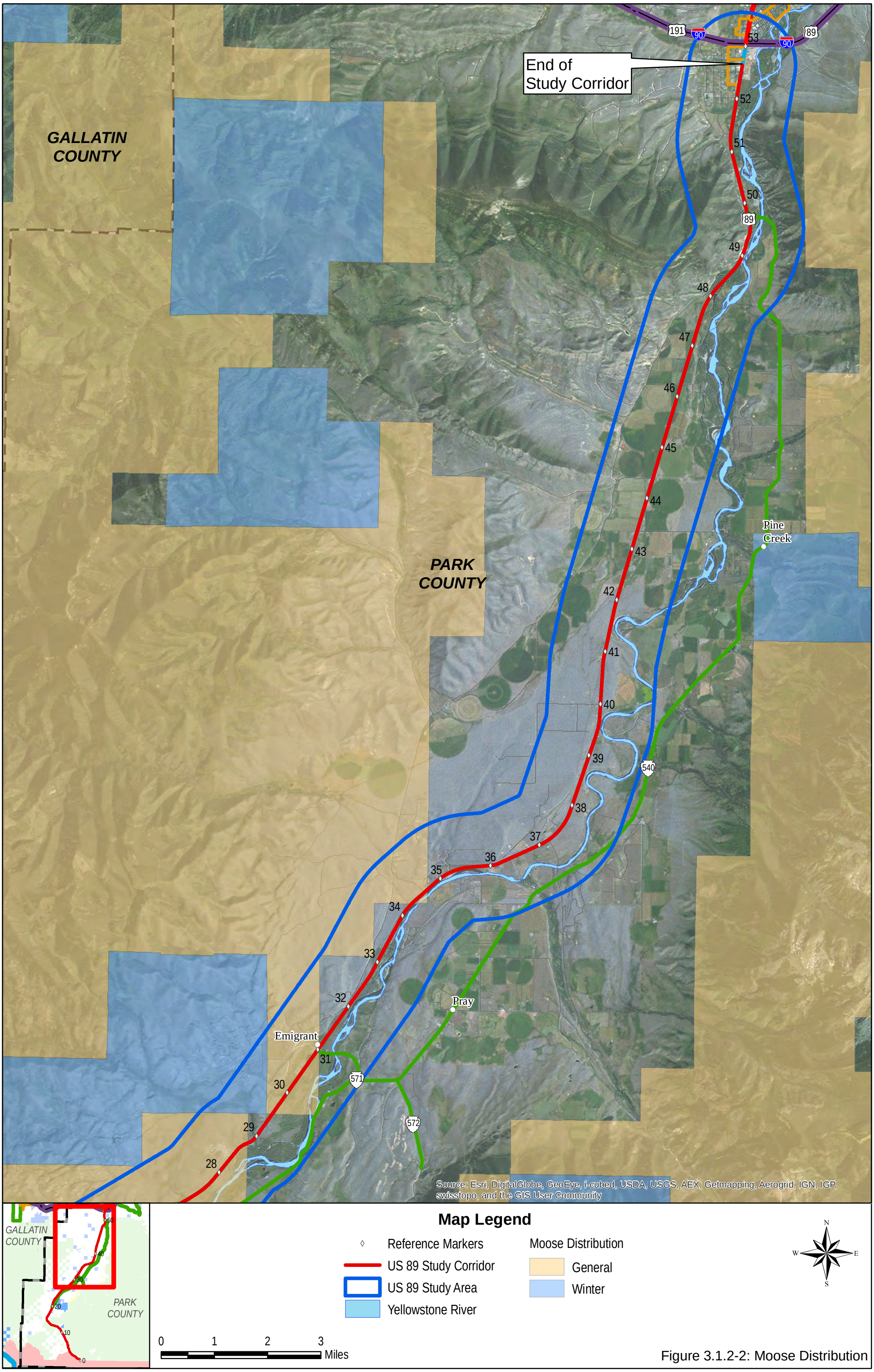


Figure 3.1.2-2: Moose Distribution

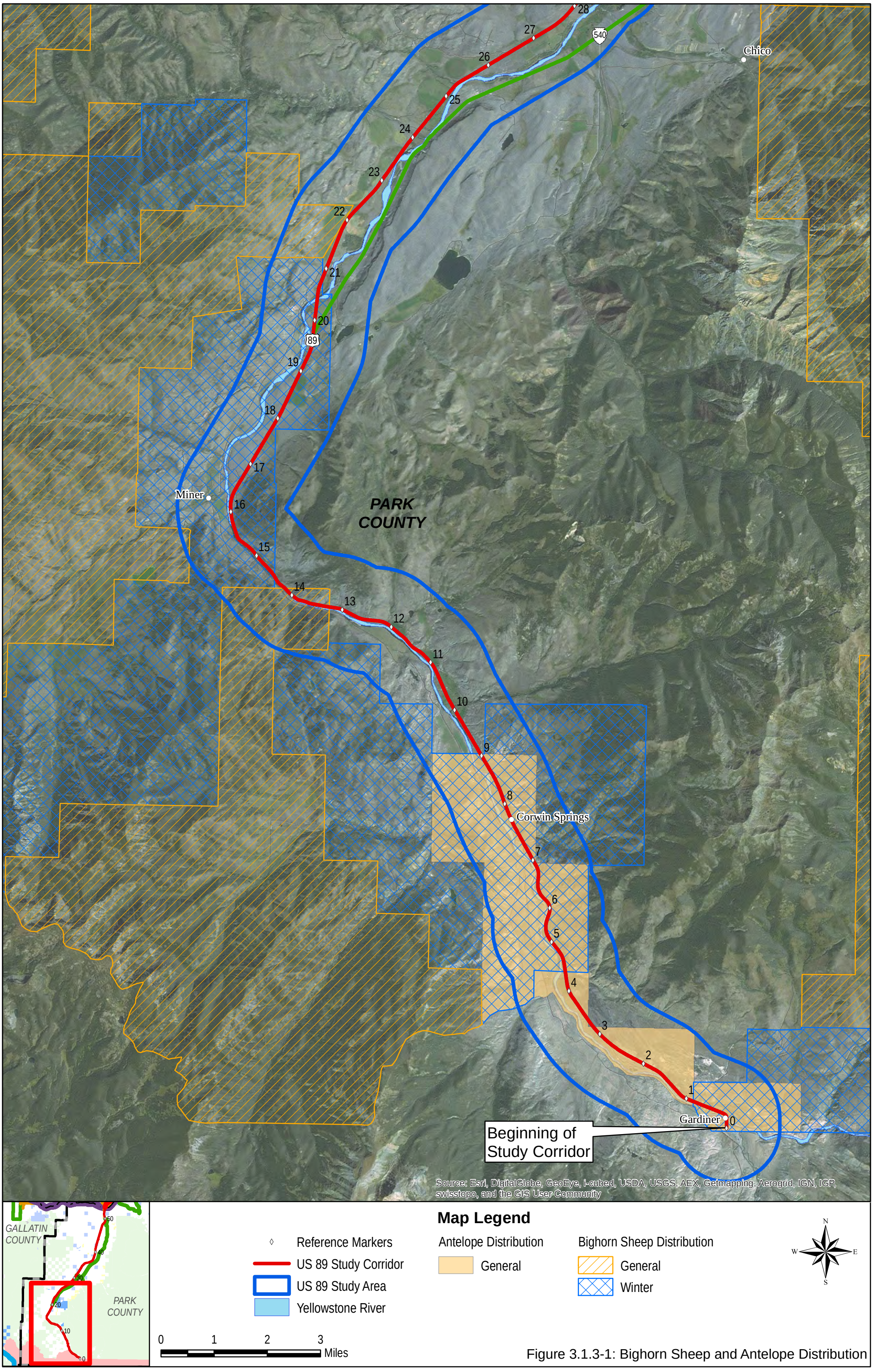


Figure 3.1.3-1: Bighorn Sheep and Antelope Distribution

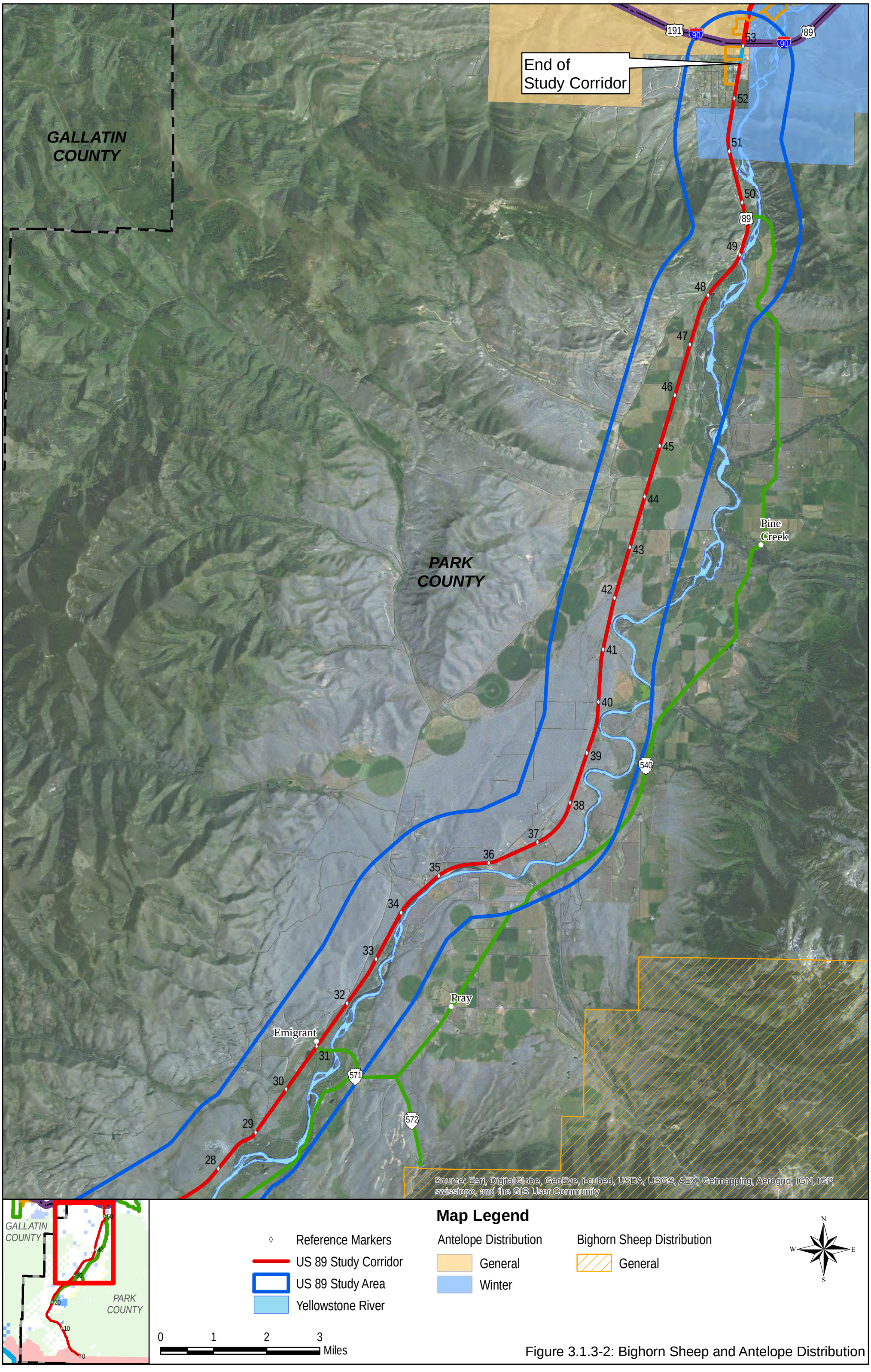
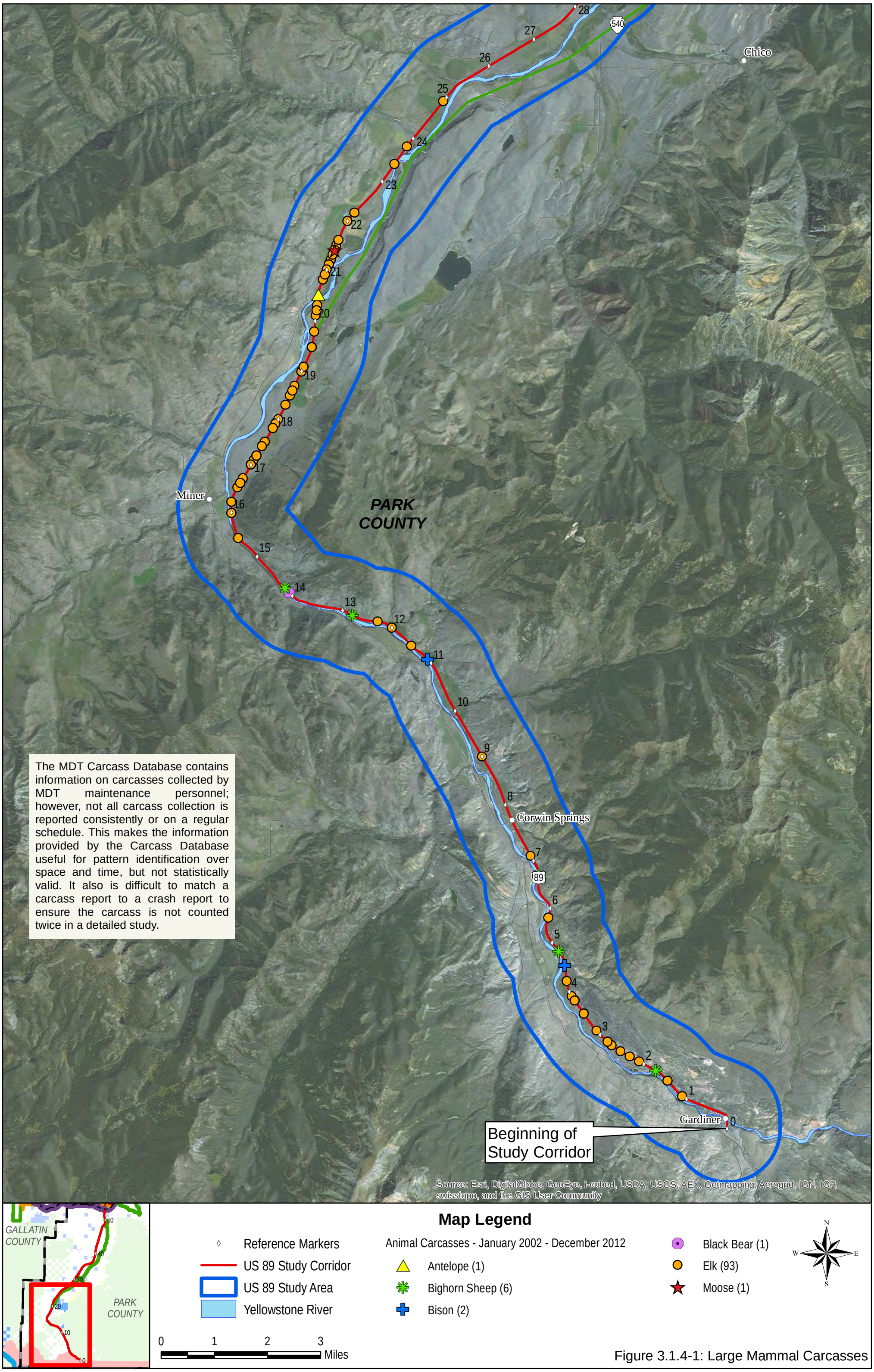
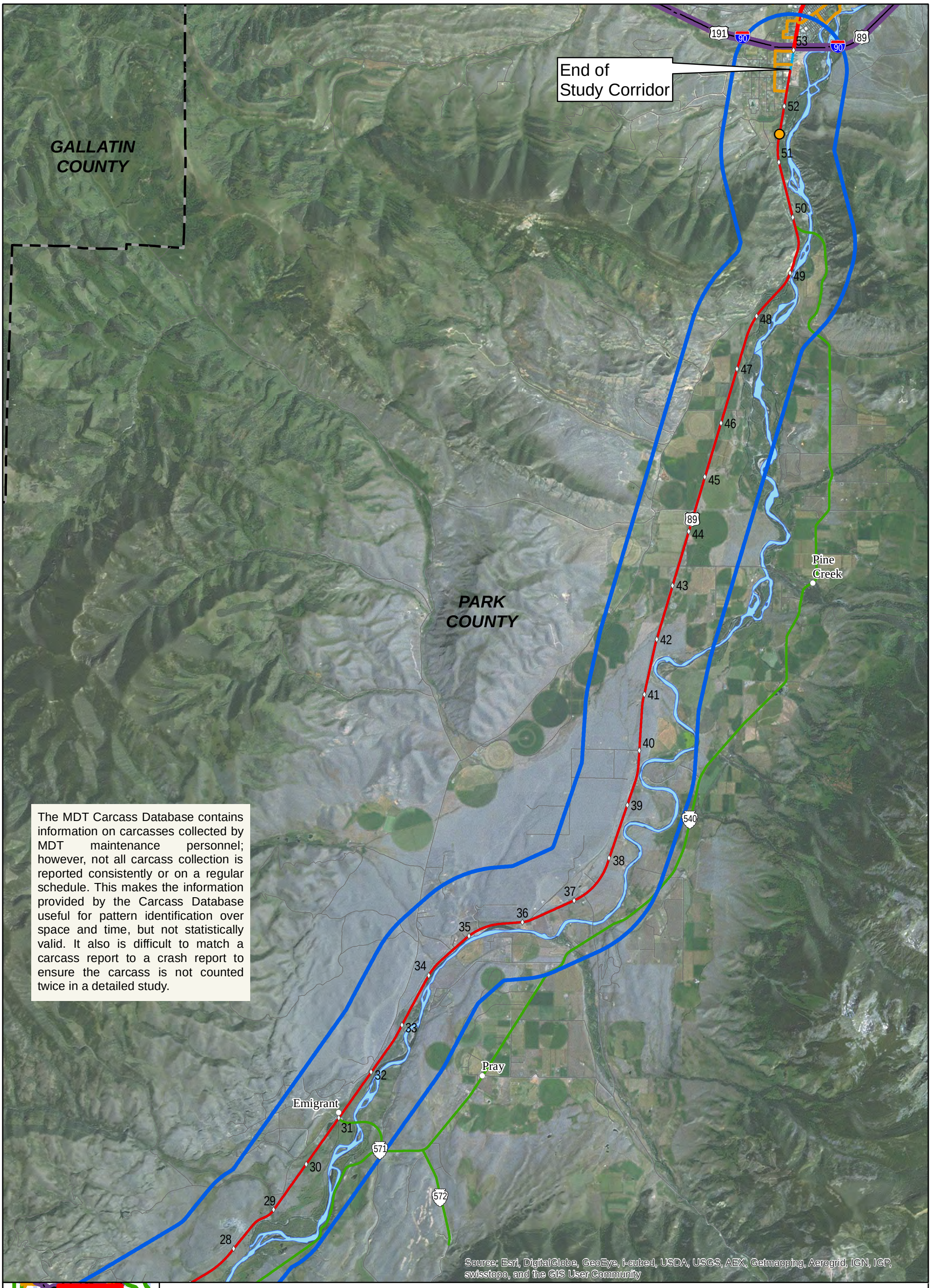


Figure 3.1.3-2: Bighorn Sheep and Antelope Distribution

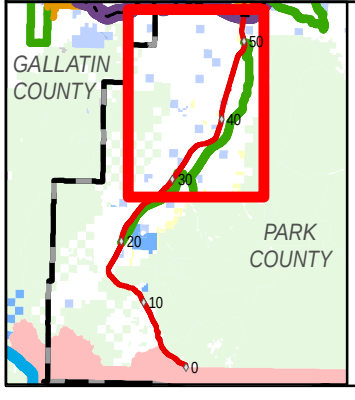


The MDT Carcass Database contains information on carcasses collected by MDT maintenance personnel; however, not all carcass collection is reported consistently or on a regular schedule. This makes the information provided by the Carcass Database useful for pattern identification over space and time, but not statistically valid. It also is difficult to match a carcass report to a crash report to ensure the carcass is not counted twice in a detailed study.

Figure 3.1.4-1: Large Mammal Carcasses



The MDT Carcass Database contains information on carcasses collected by MDT maintenance personnel; however, not all carcass collection is reported consistently or on a regular schedule. This makes the information provided by the Carcass Database useful for pattern identification over space and time, but not statistically valid. It also is difficult to match a carcass report to a crash report to ensure the carcass is not counted twice in a detailed study.



Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- Yellowstone River

Animal Carcasses - January 2002 - December 2012

- Elk (1)

0 1 2 3 Miles

N W E S

Figure 3.1.4-2: Large Mammal Carcasses

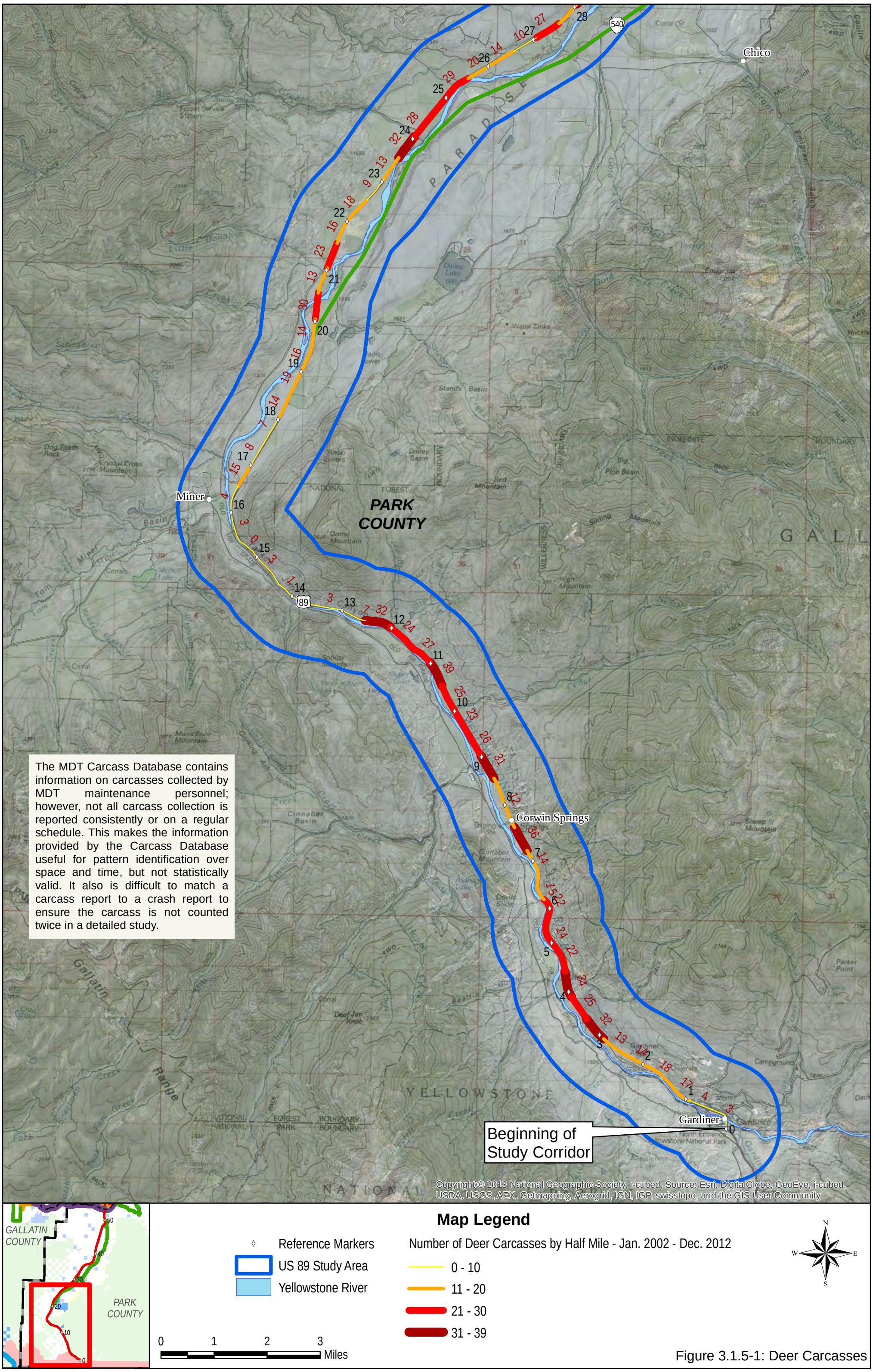


Figure 3.1.5-1: Deer Carcasses

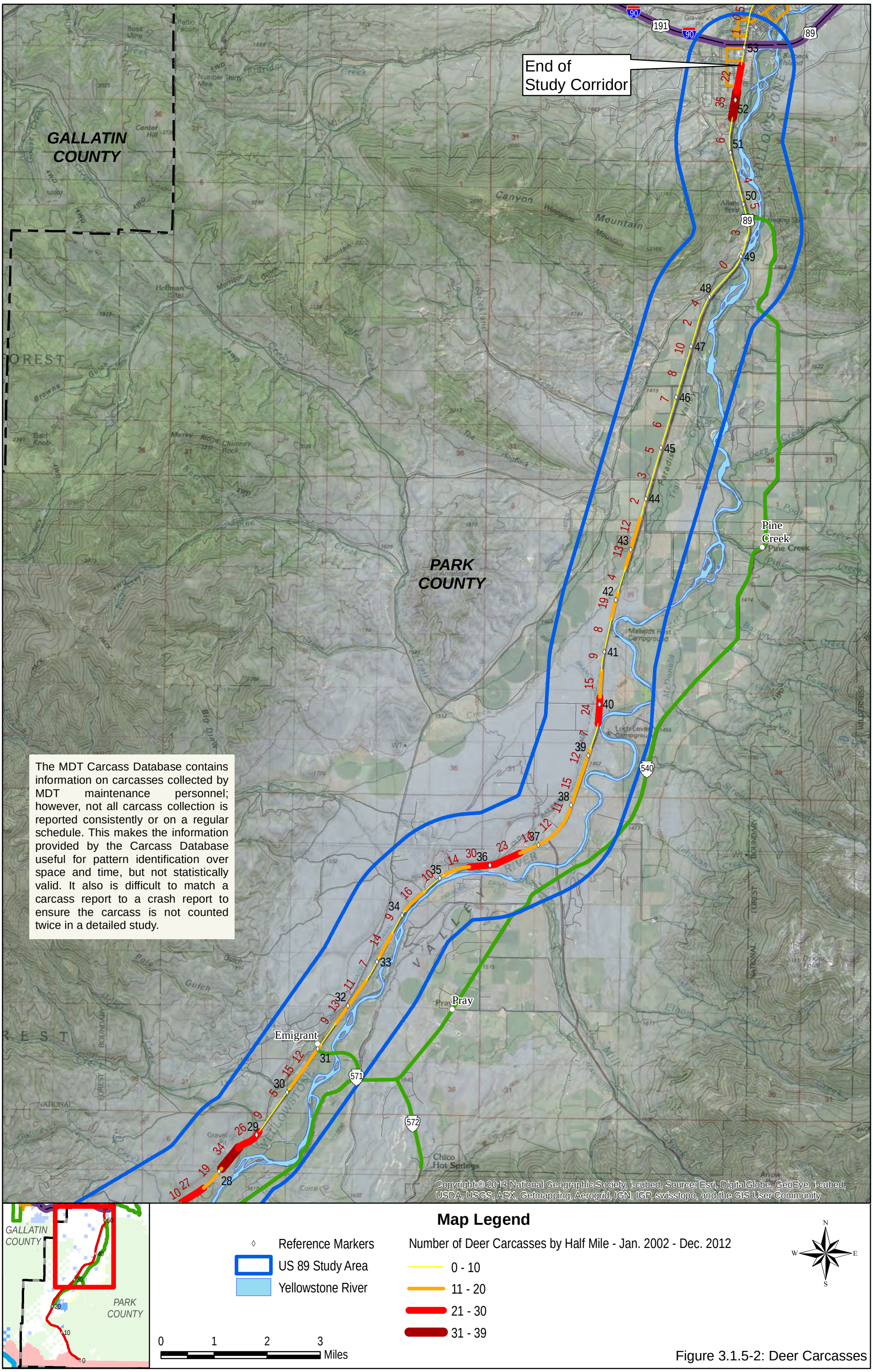
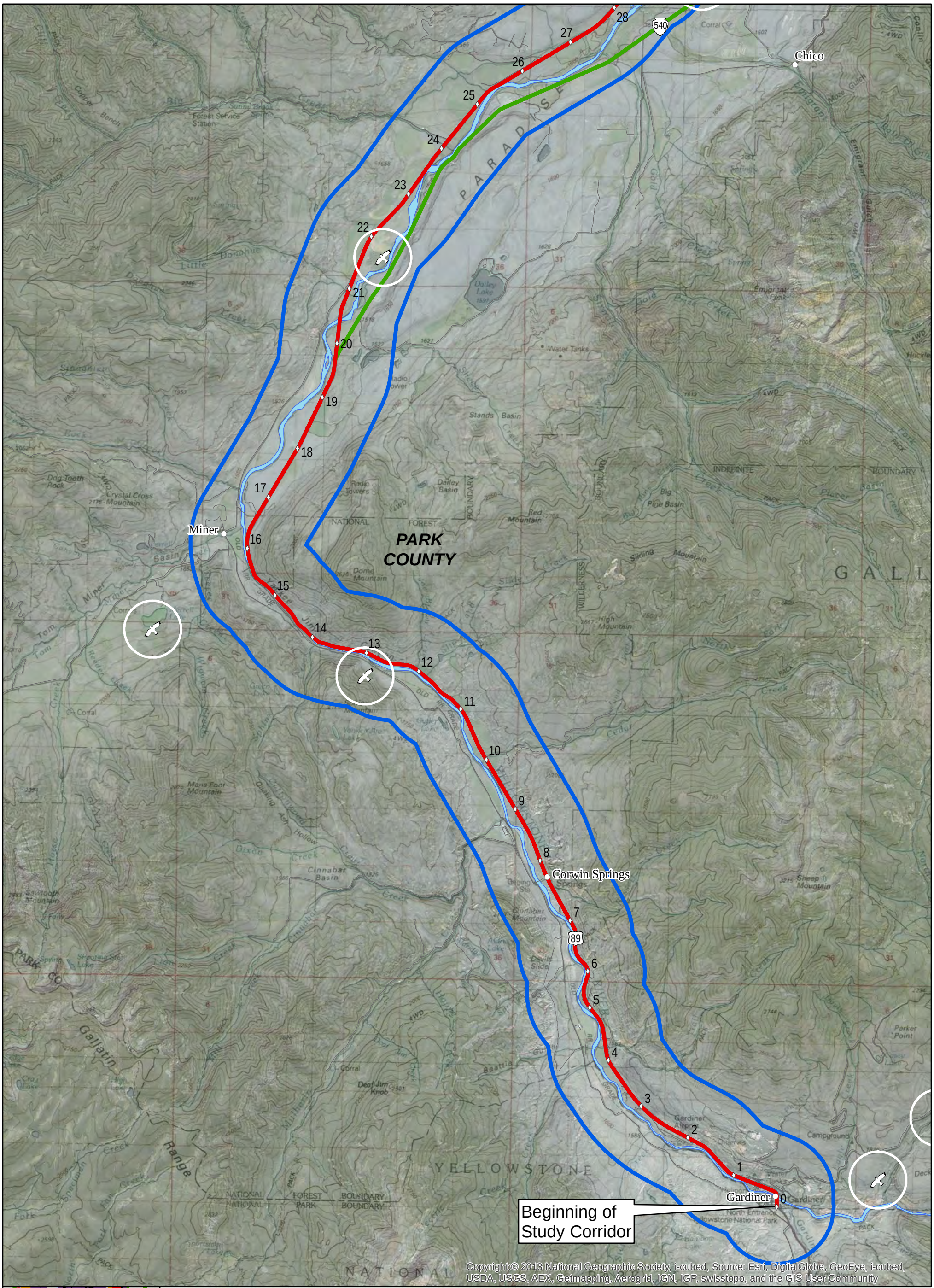
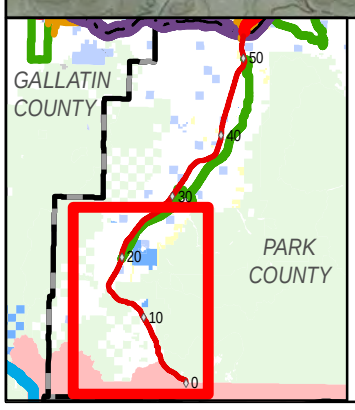


Figure 3.1.5-2: Deer Carcasses





Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- Yellowstone River
- Bald Eagle Nests 2012 (FWP)
- Bald Eagle Nest Half of a Mile Buffer (FWP)

0 1 2 3 Miles

Figure 3.1.6-1: Eagle Nests

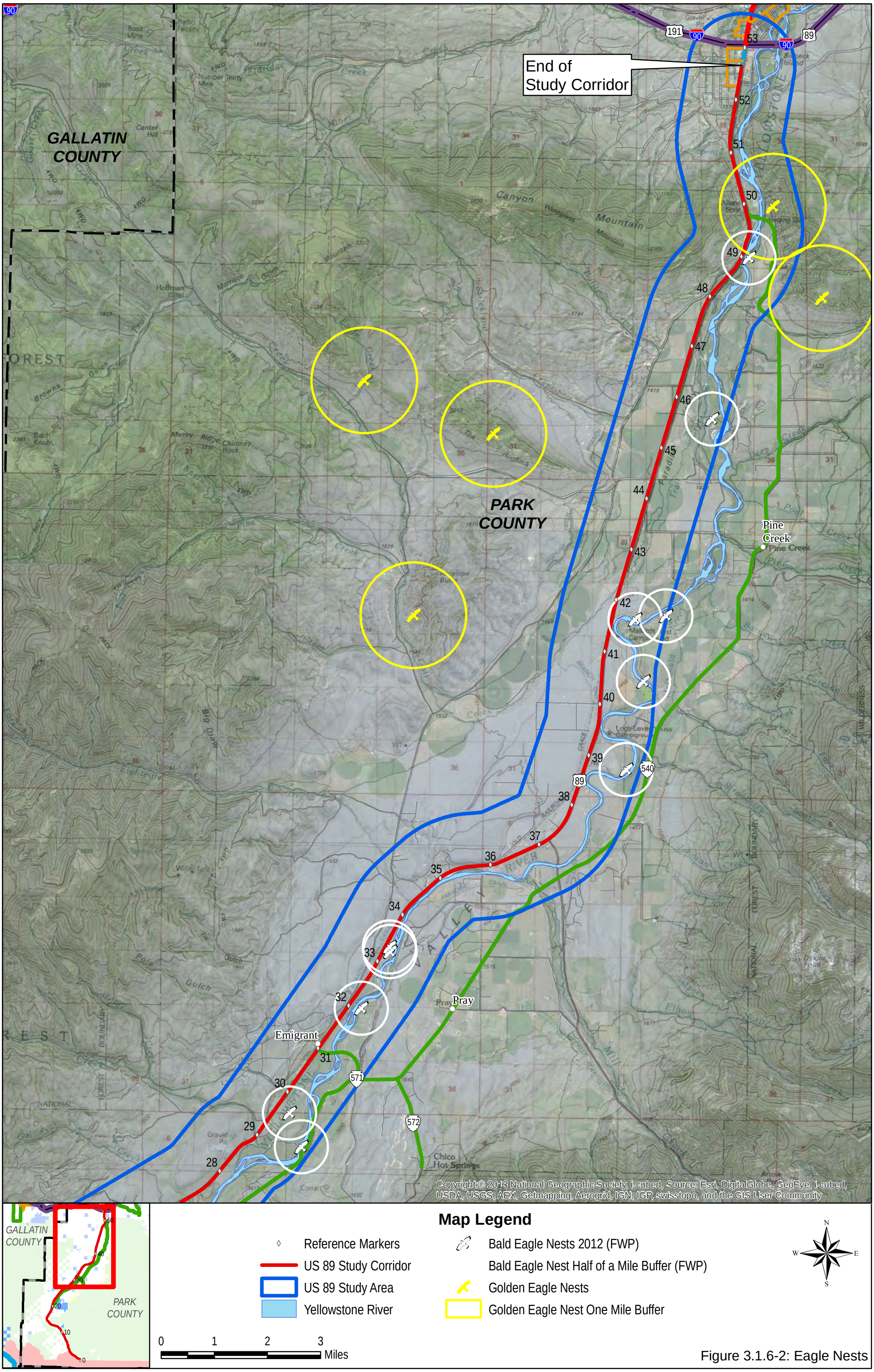


Figure 3.1.6-2: Eagle Nests

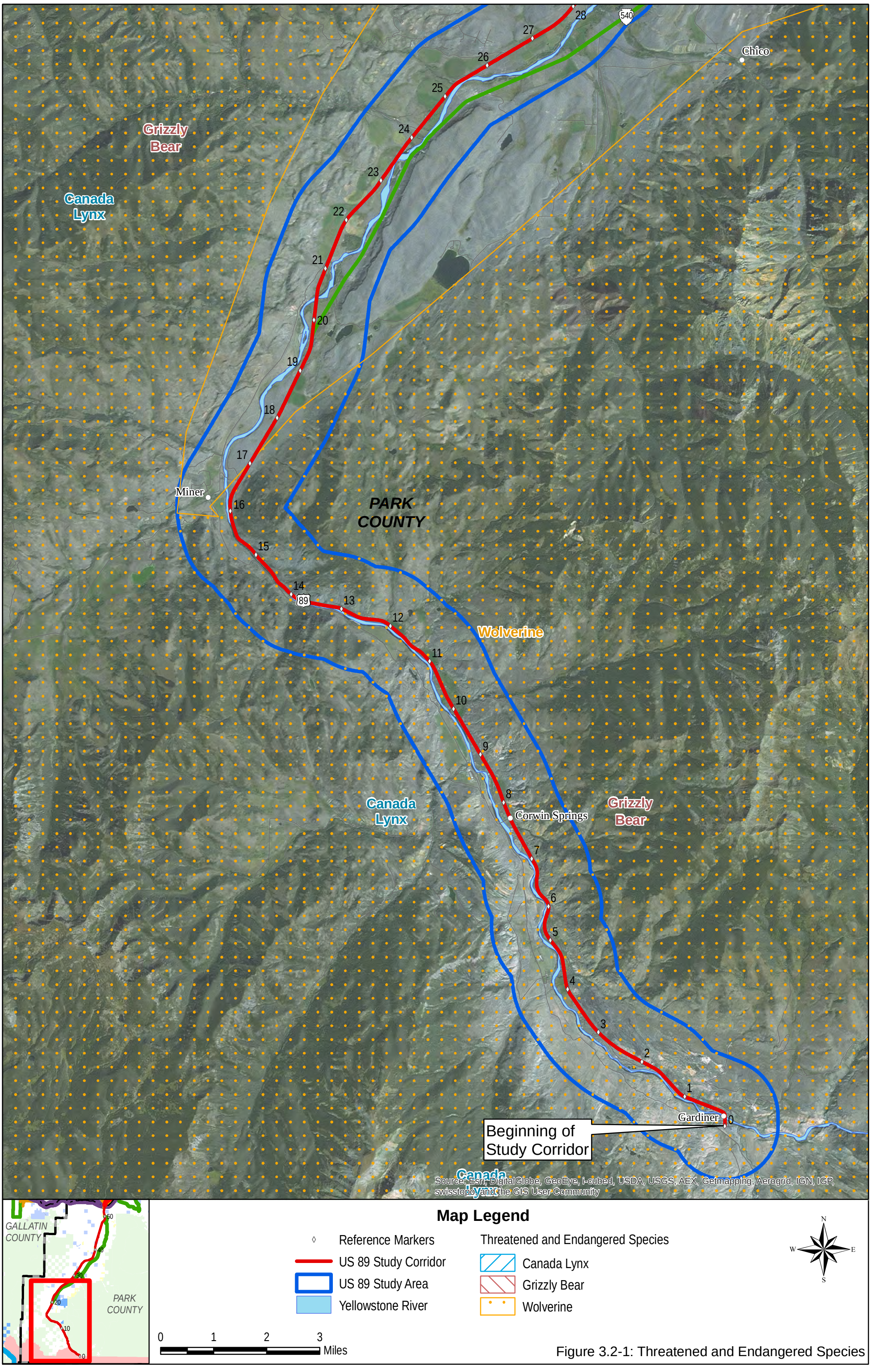
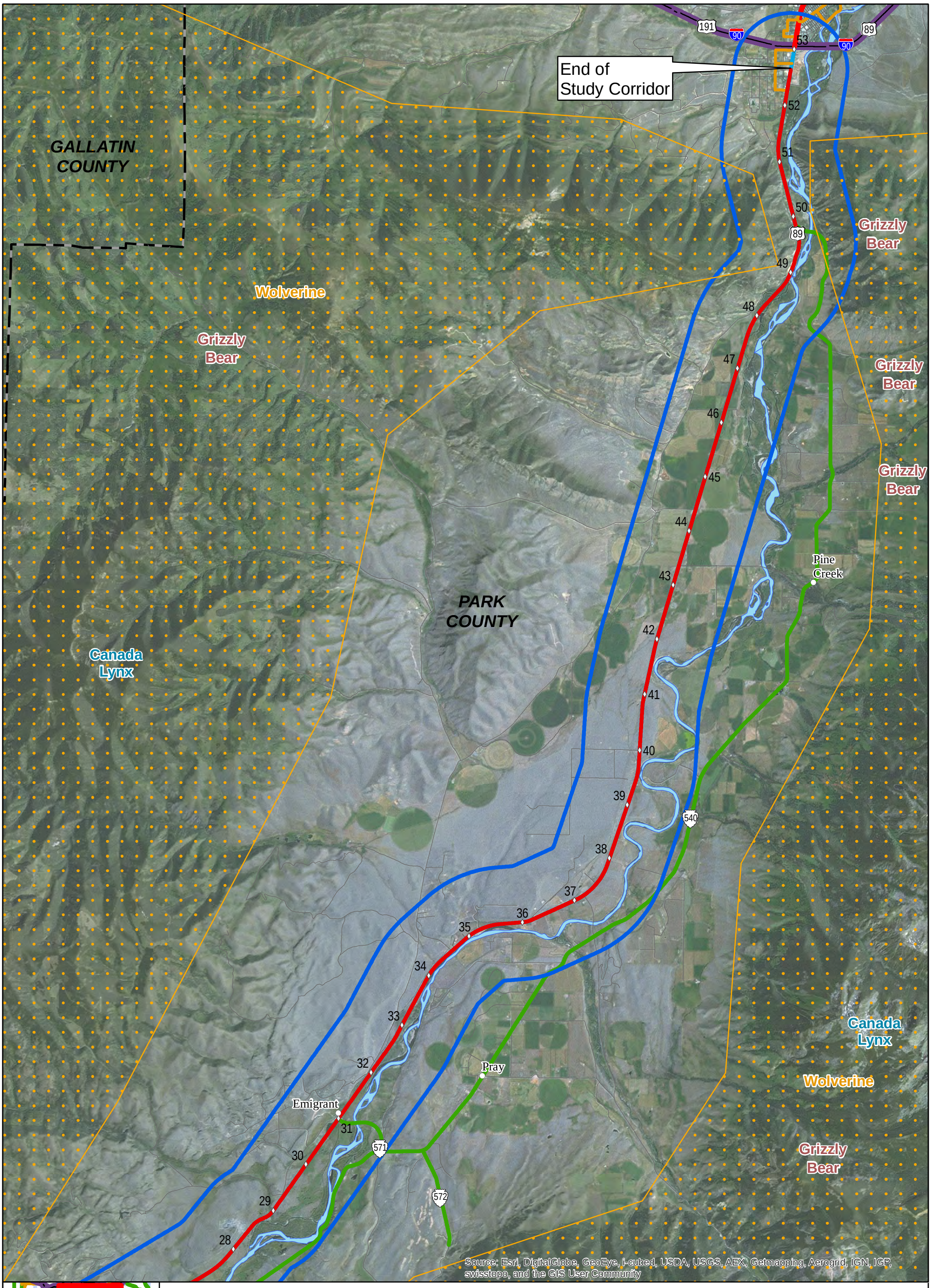
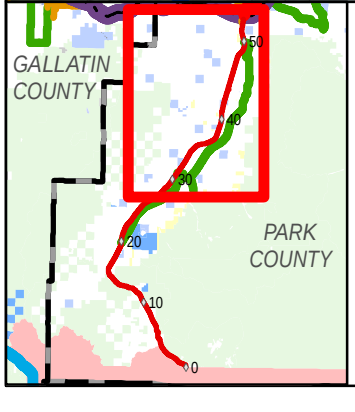


Figure 3.2-1: Threatened and Endangered Species





Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- Yellowstone River

Threatened and Endangered Species

- Canada Lynx
- Grizzly Bear
- Wolverine

N W E S

0 1 2 3 Miles

Figure 3.2-2: Threatened and Endangered Species

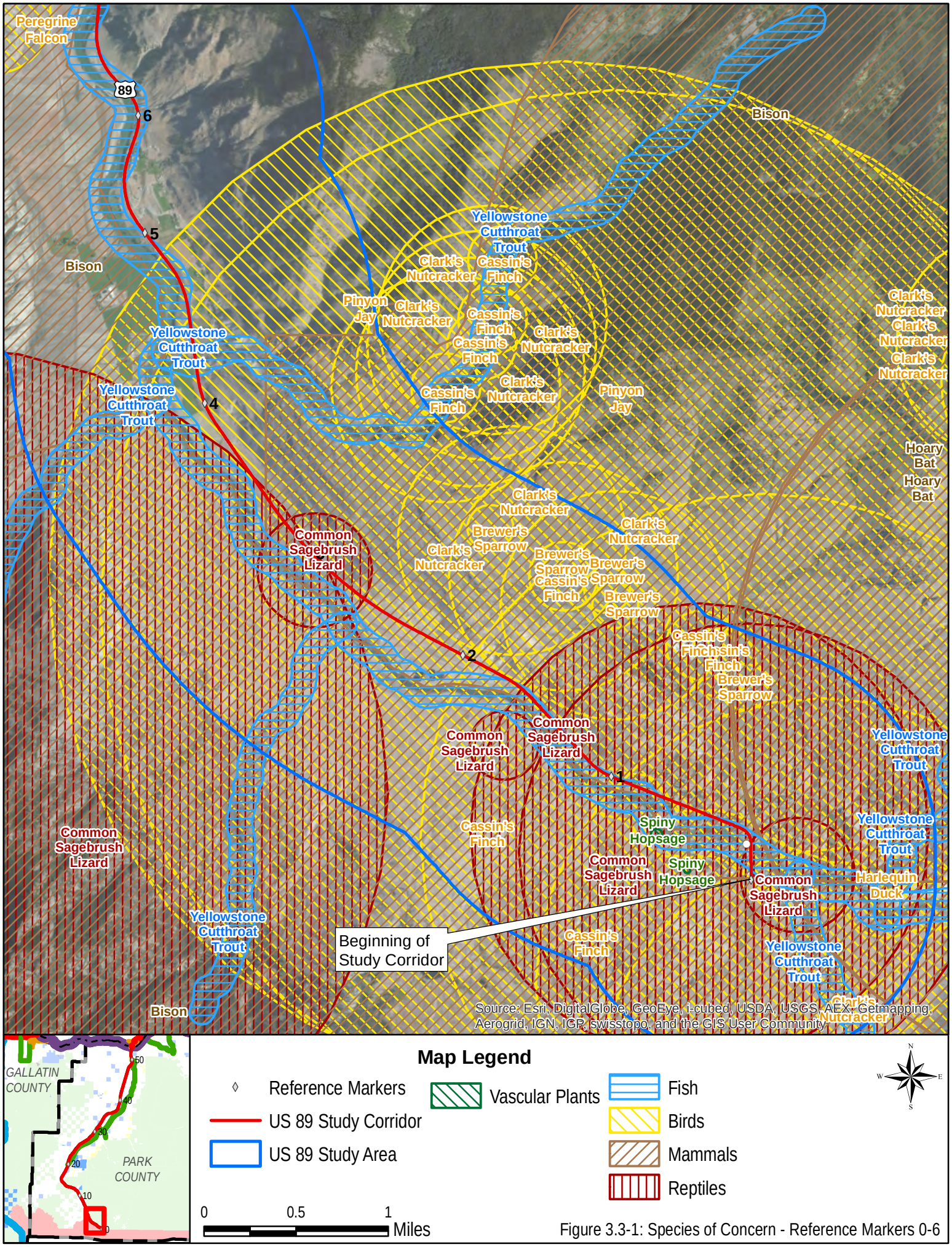


Figure 3.3-1: Species of Concern - Reference Markers 0-6

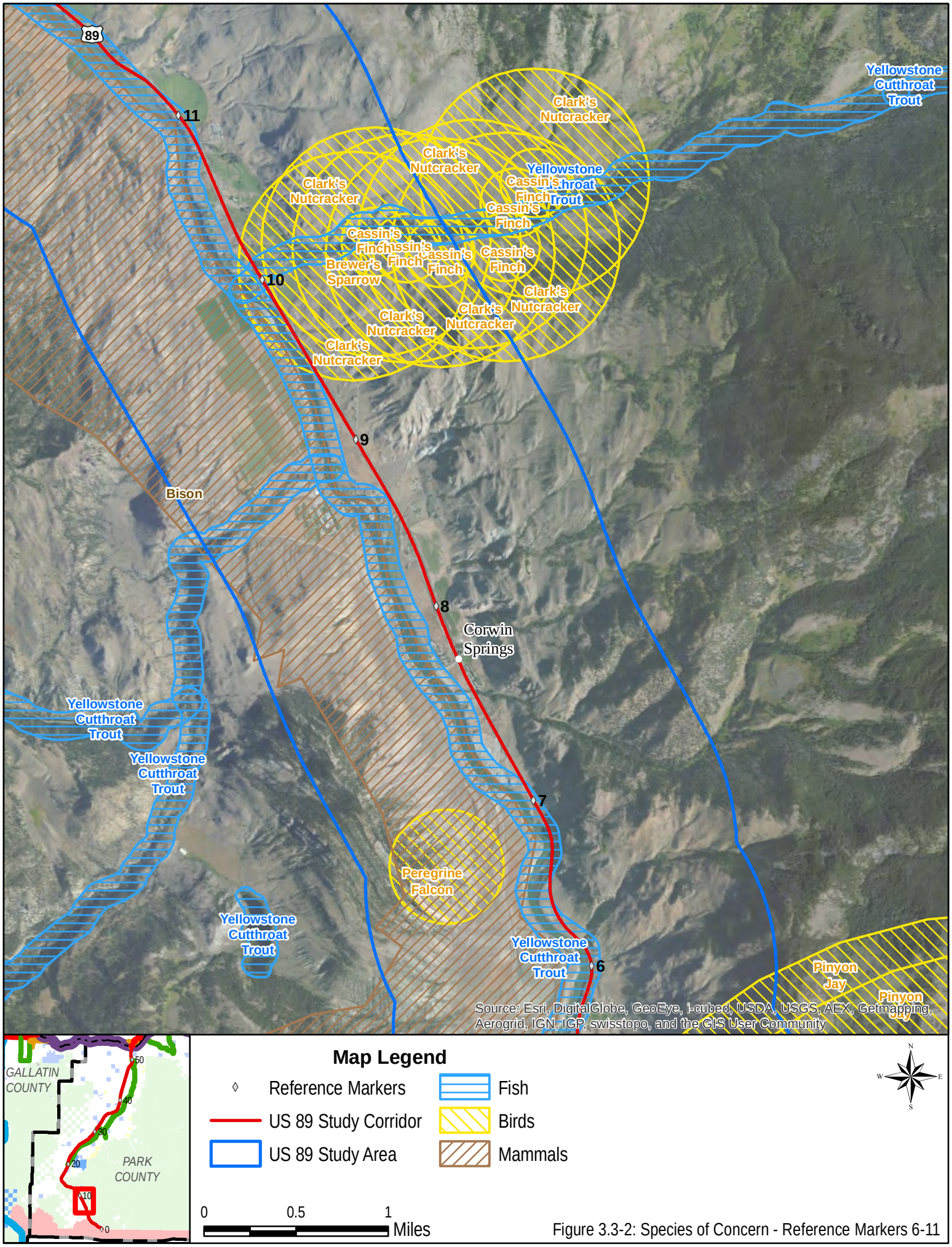


Figure 3.3-2: Species of Concern - Reference Markers 6-11

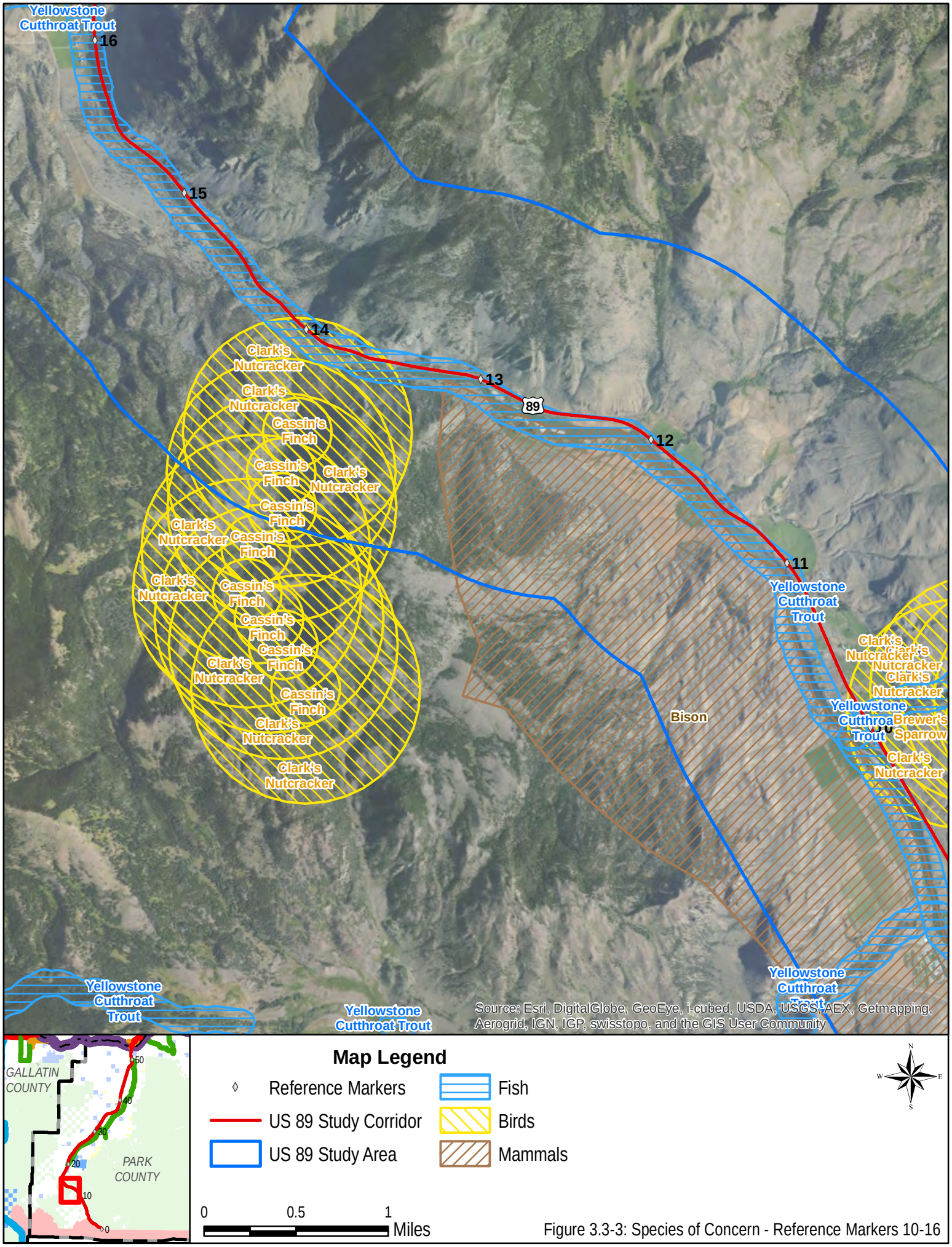


Figure 3.3-3: Species of Concern - Reference Markers 10-16

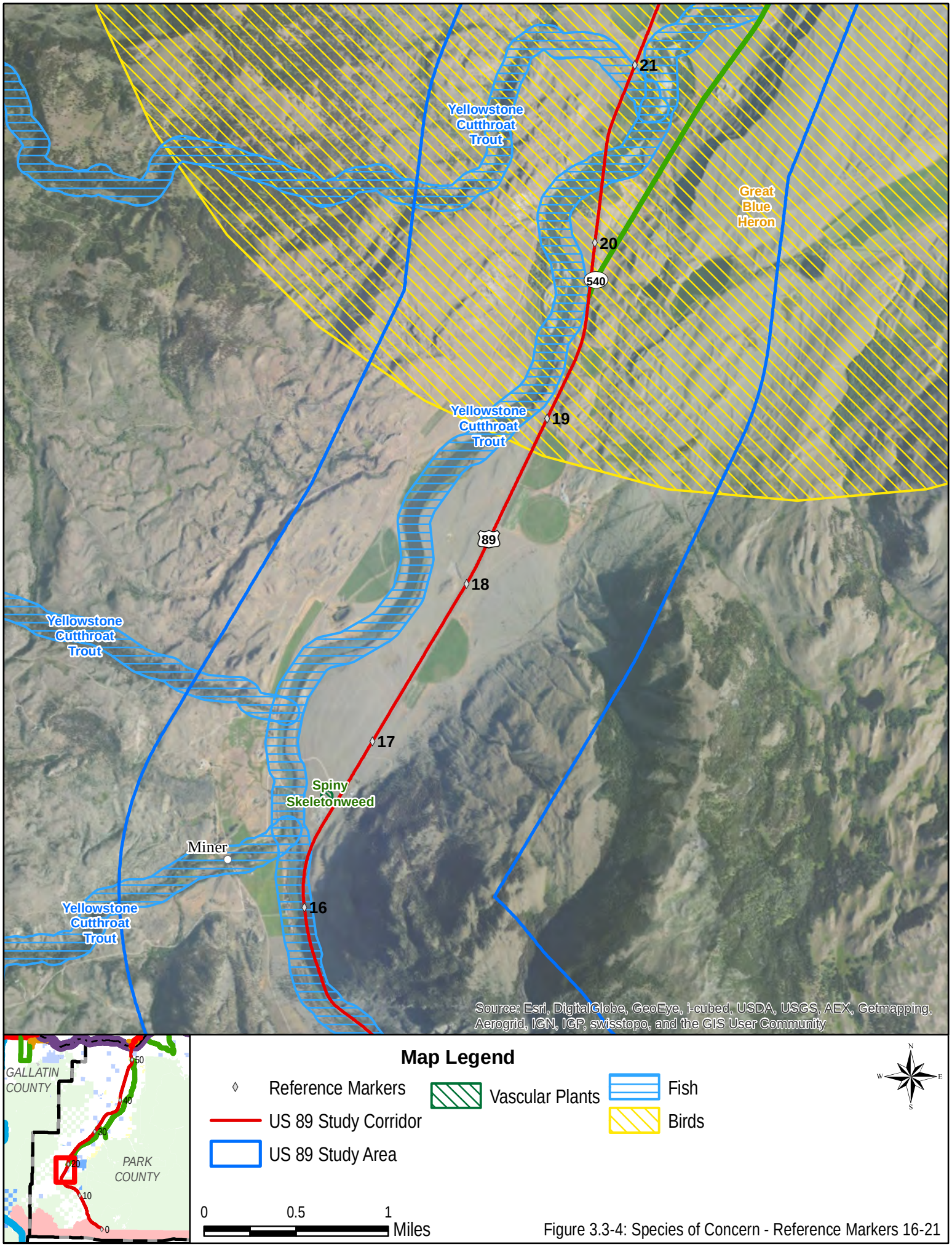


Figure 3.3-4: Species of Concern - Reference Markers 16-21

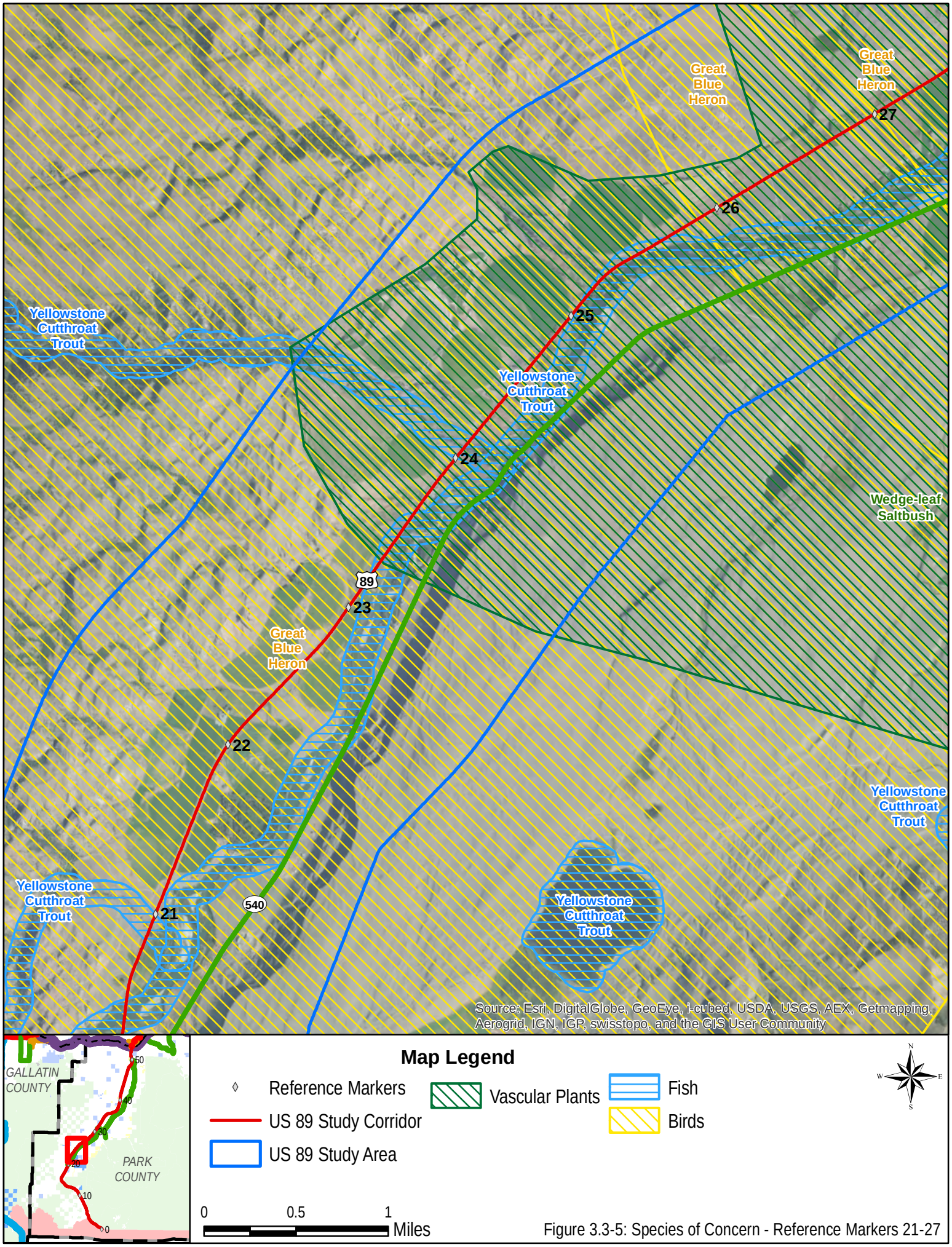


Figure 3.3-5: Species of Concern - Reference Markers 21-27

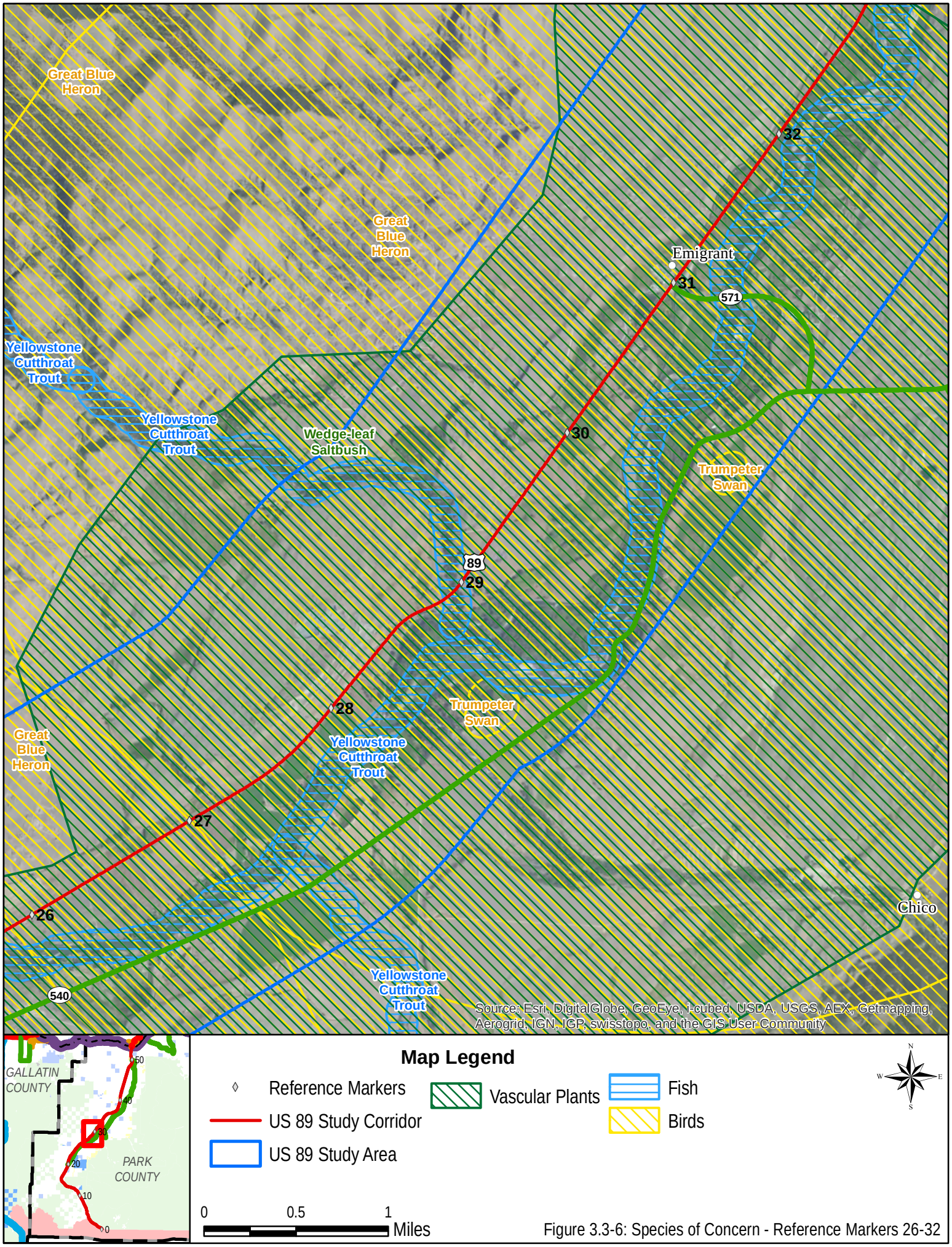


Figure 3.3-6: Species of Concern - Reference Markers 26-32

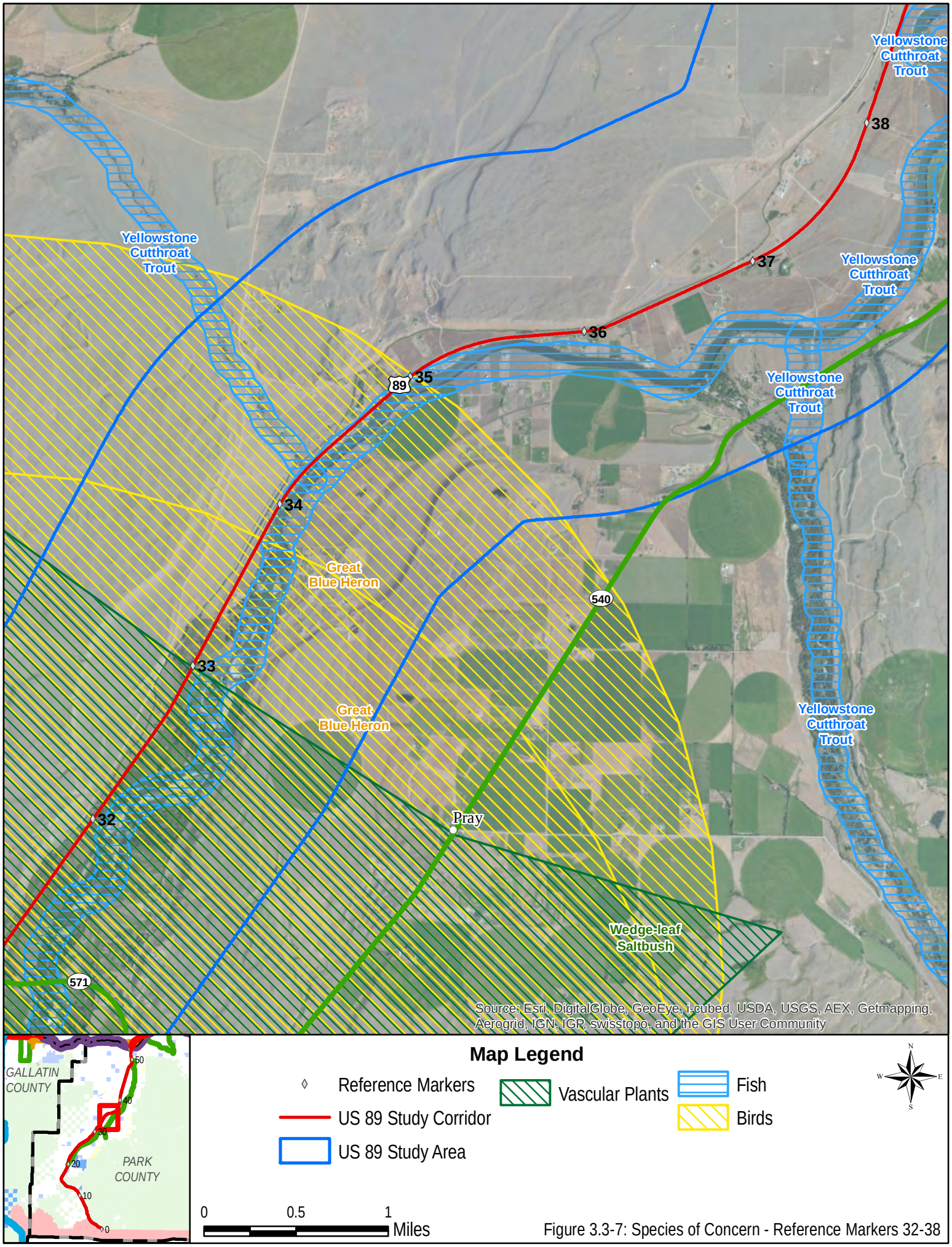


Figure 3.3-7: Species of Concern - Reference Markers 32-38

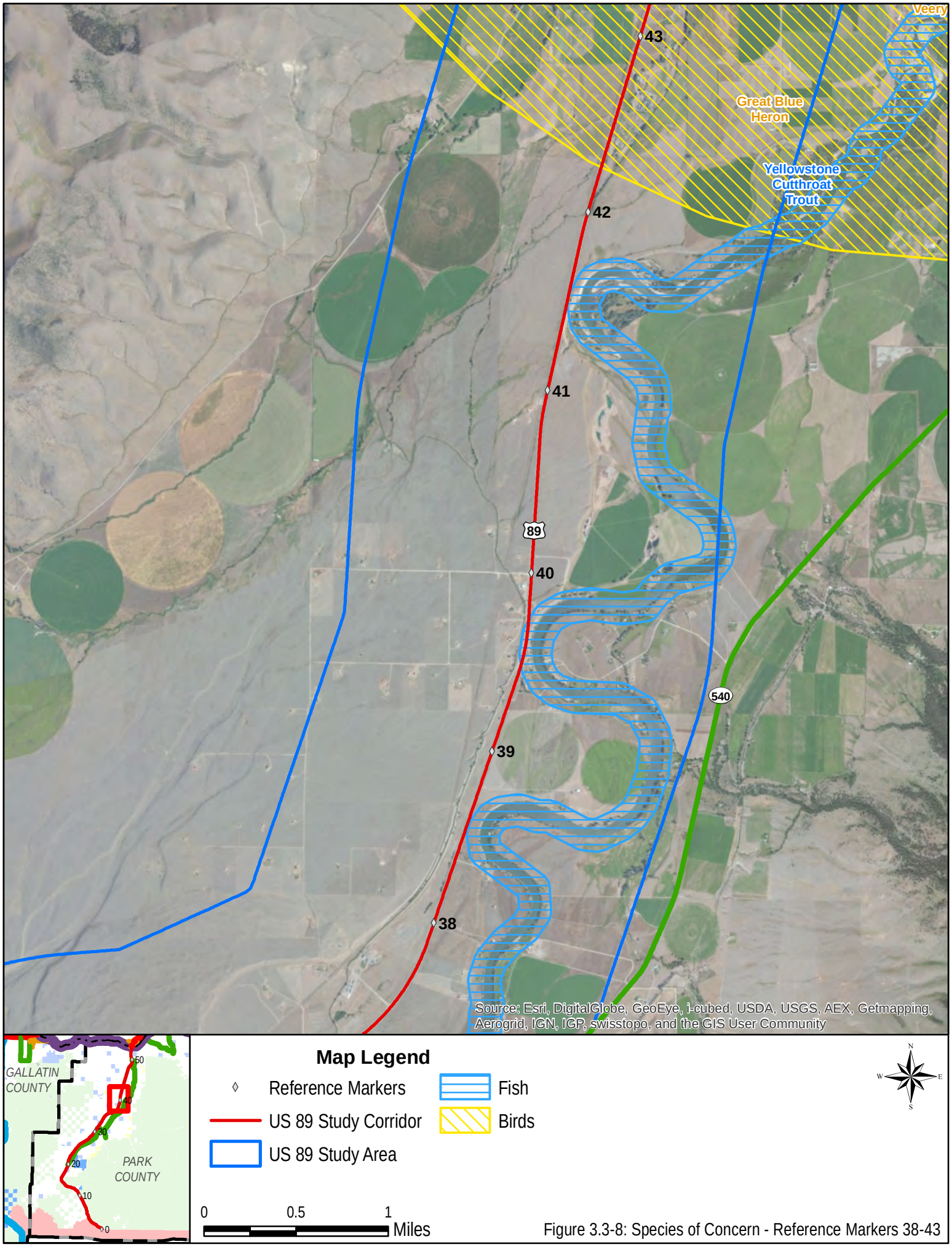


Figure 3.3-8: Species of Concern - Reference Markers 38-43

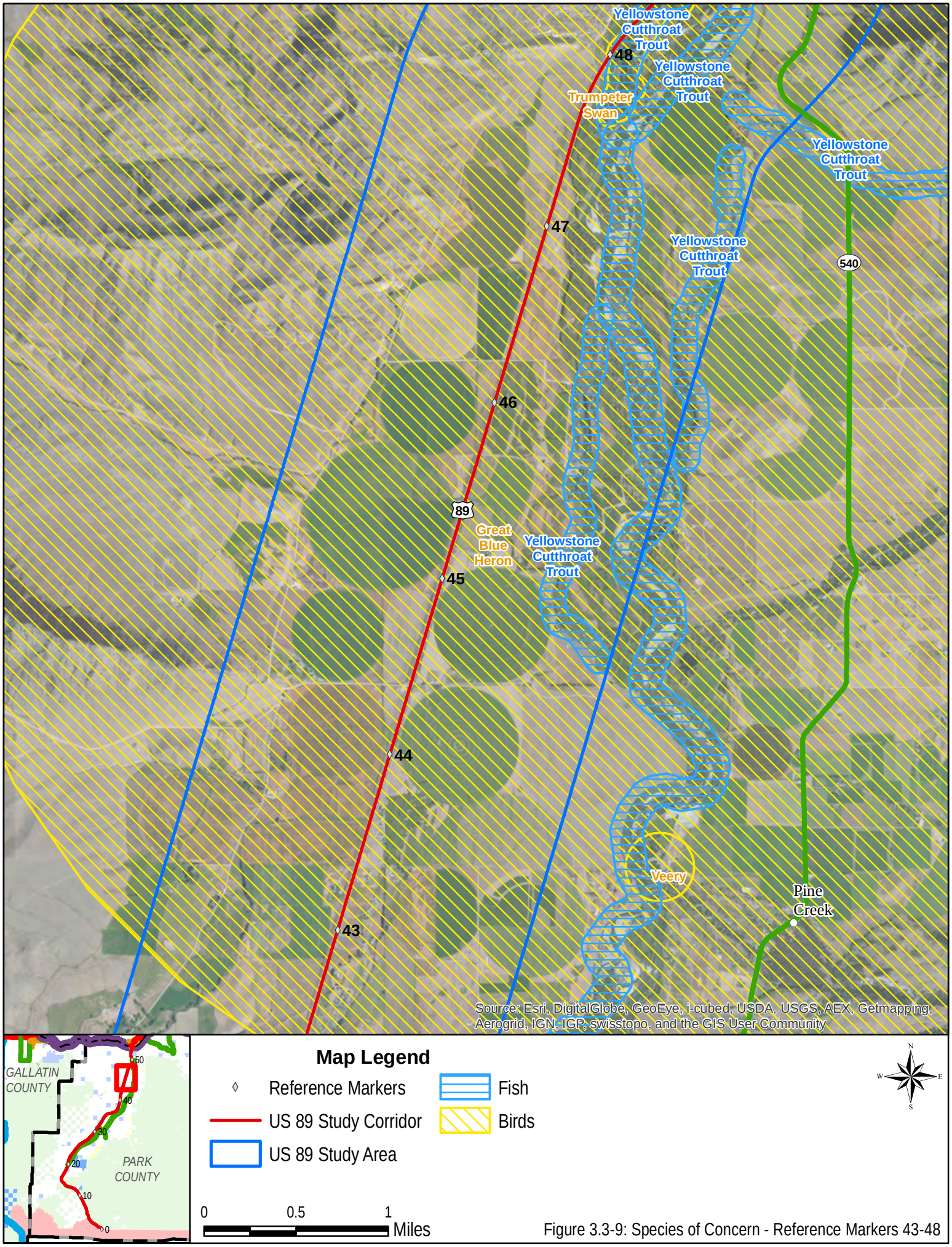


Figure 3.3-9: Species of Concern - Reference Markers 43-48

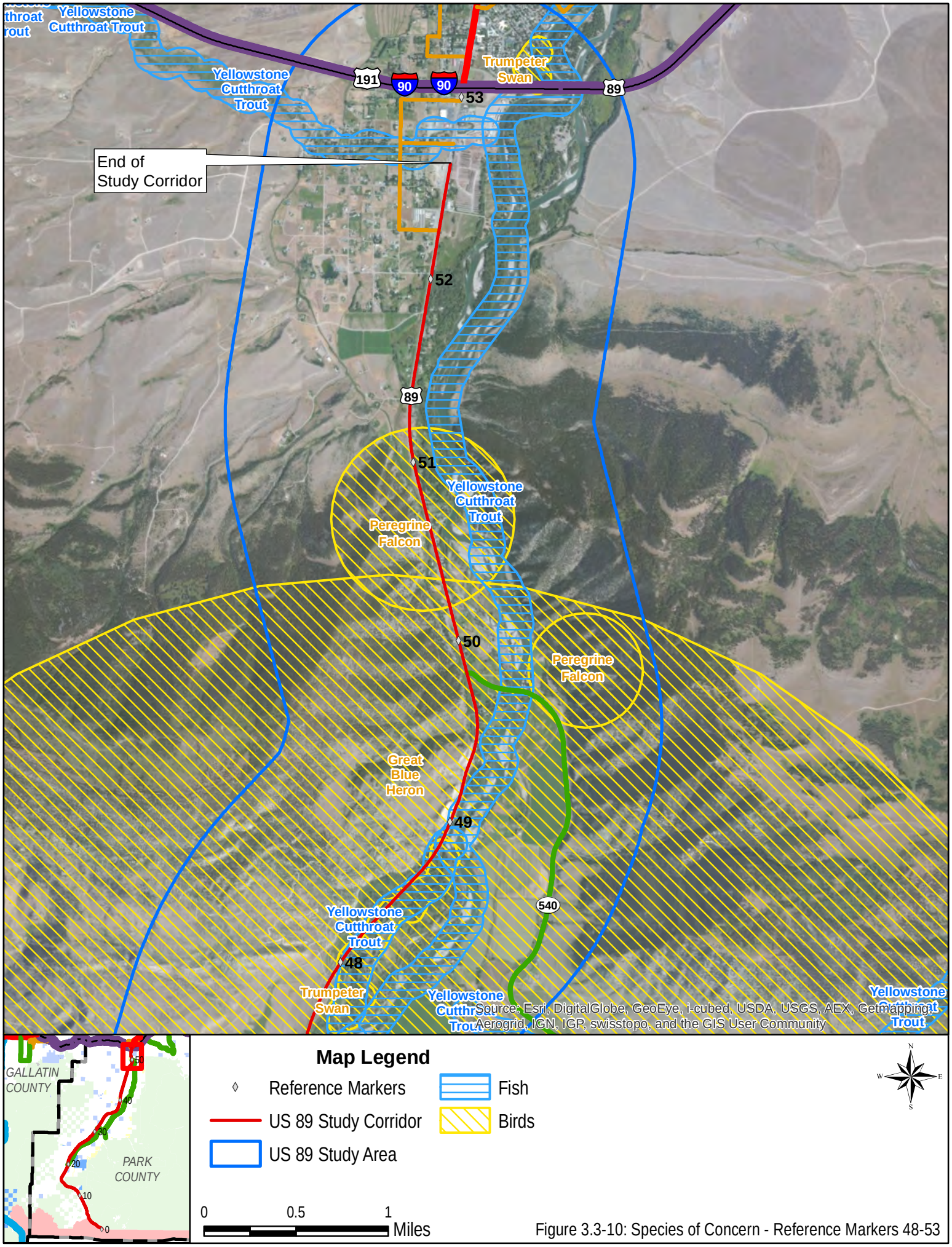


Figure 3.3-10: Species of Concern - Reference Markers 48-53

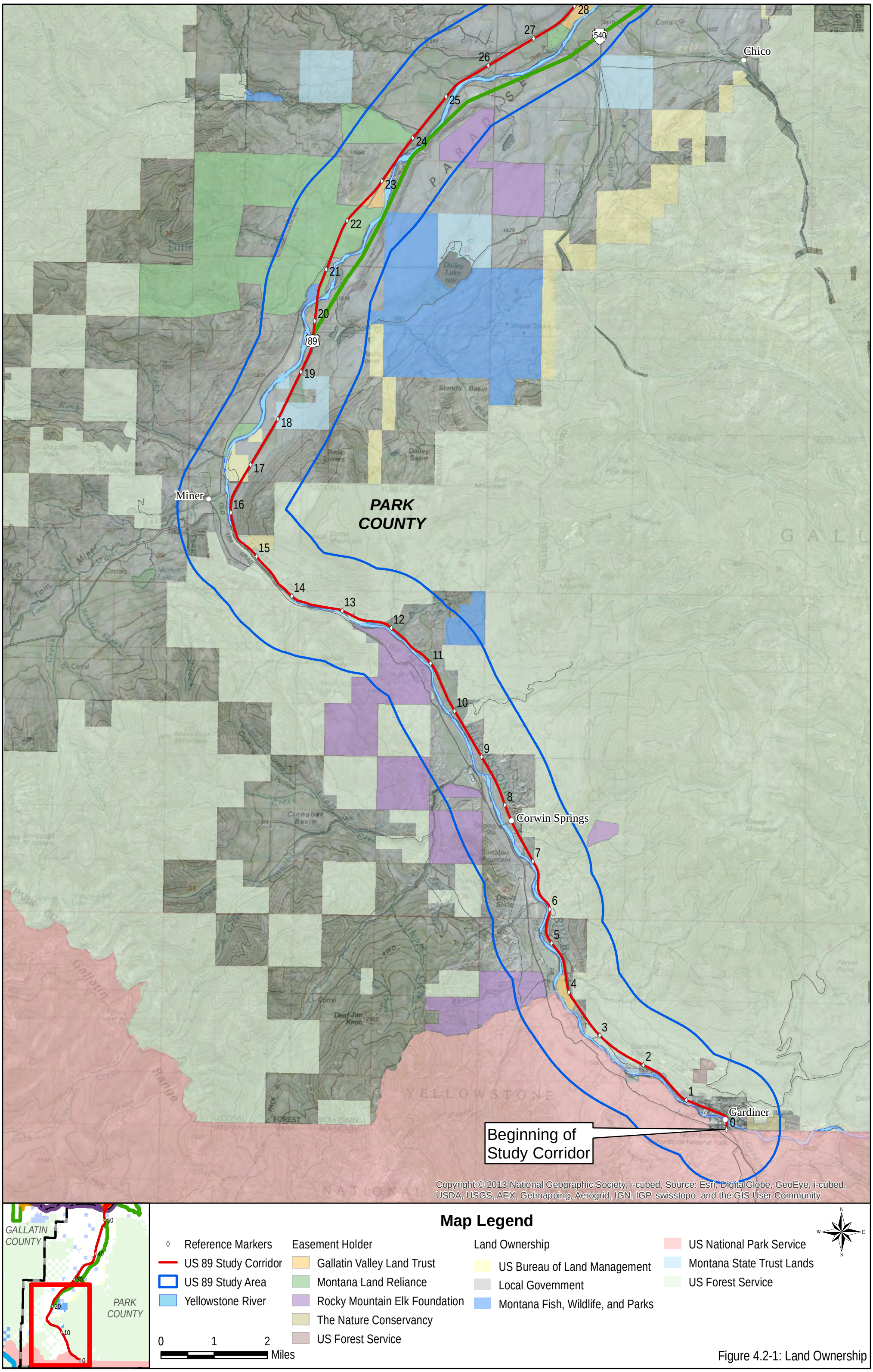


Figure 4.2-1: Land Ownership

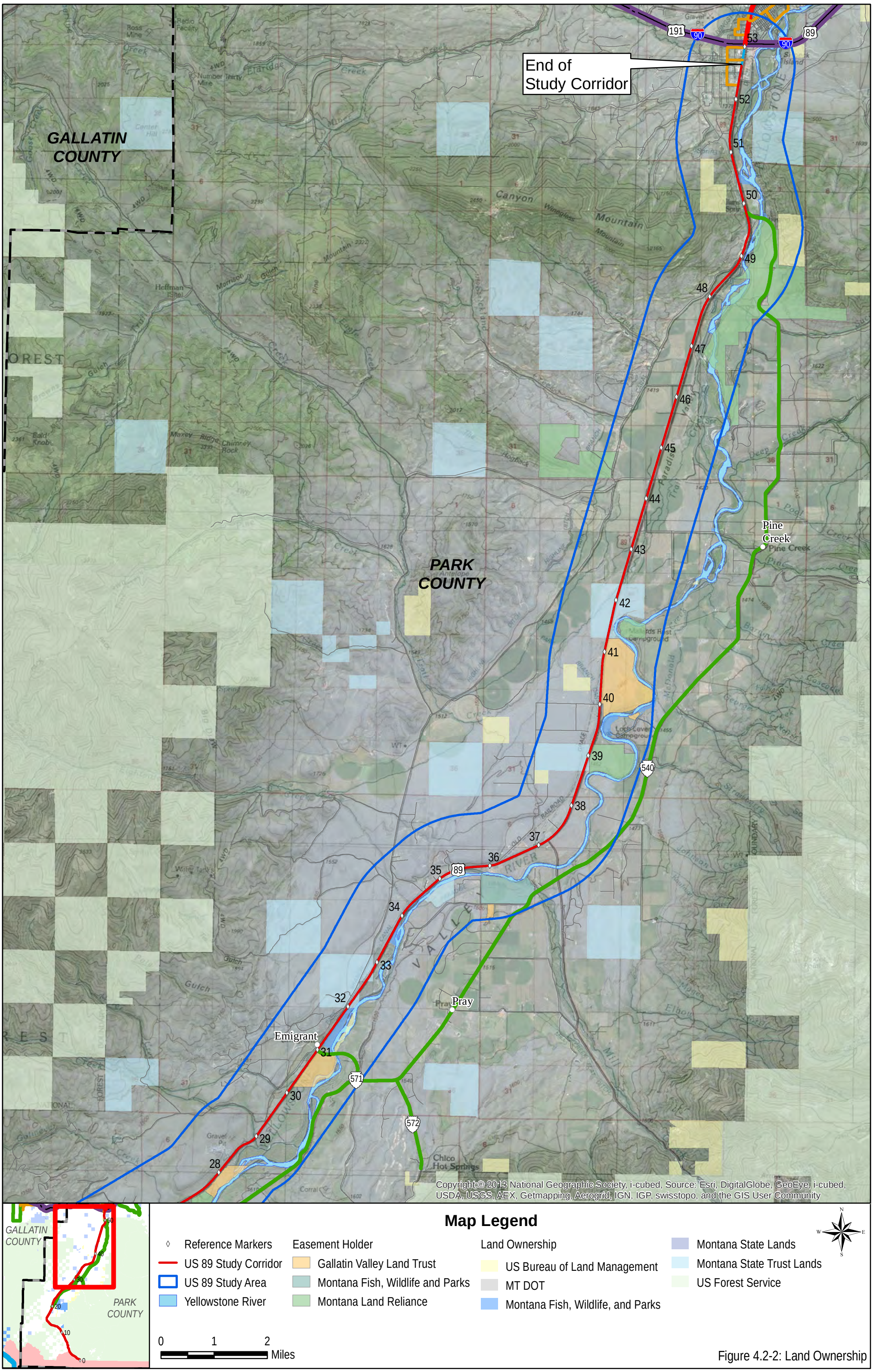


Figure 4.2-2: Land Ownership

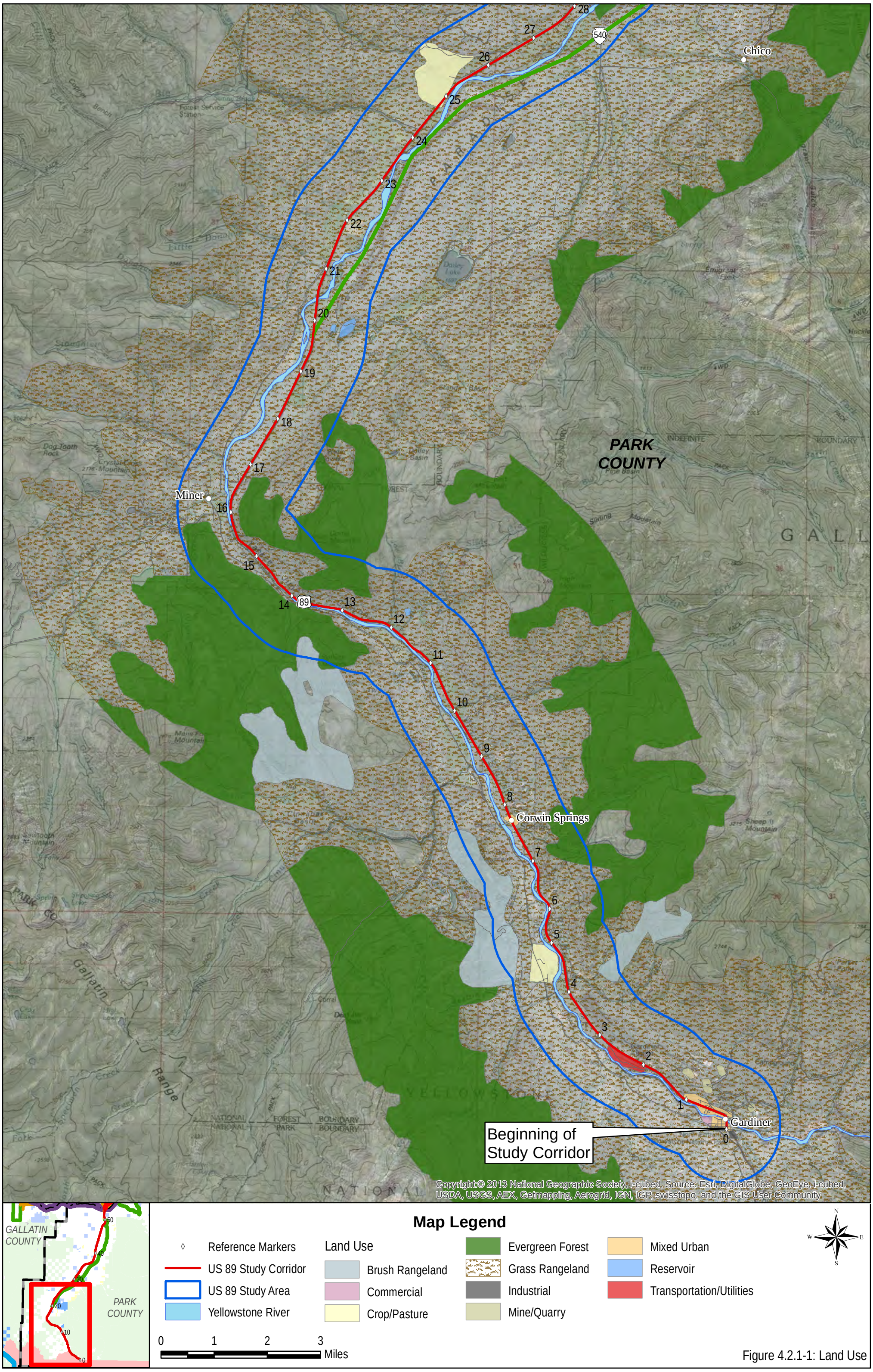


Figure 4.2.1-1: Land Use

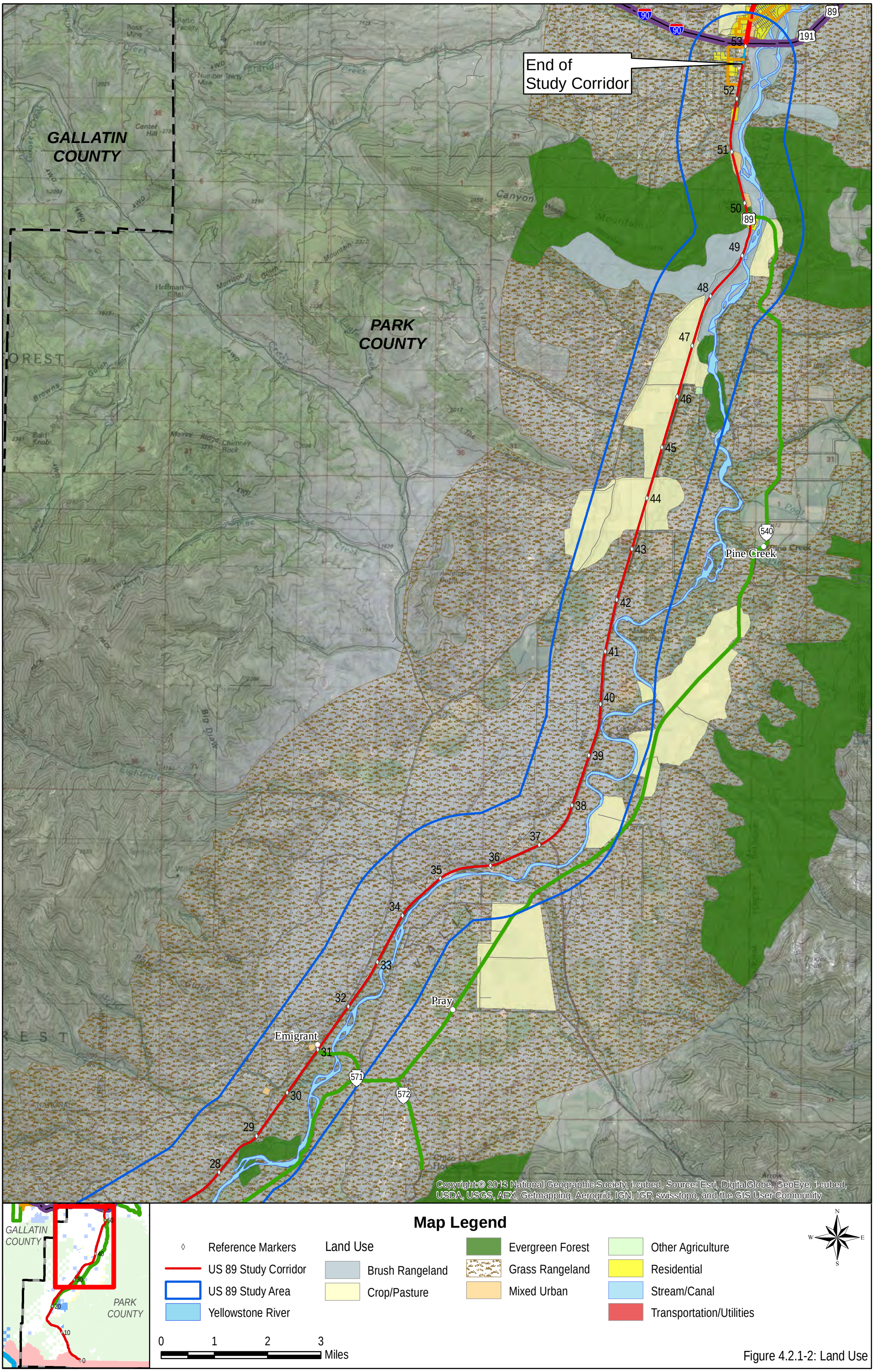


Figure 4.2.1-2: Land Use

Sunny Brook Springs
Dailey Lake
Point of Rocks
Crystal Cross
Slip & Slide
Brogan's Landing
Queen of the Waters
Chico
Miner
Corwin Springs
Gardiner
PARK COUNTY
Beginning of Study Corridor
Copyright:© 2013 National Geographic Society, i-cubed, Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GALLATIN COUNTY
PARK COUNTY

Map Legend

- Reference Markers
- US 89 Study Corridor
- US 89 Study Area
- Yellowstone River
- Fishing Access Sites
- Fishing Access Site Boundary
- Wildlife Management Area (FWP)
- Dome Mountain

0 1 2 Miles

Figure 4.3-1: Section 6(f) Resources

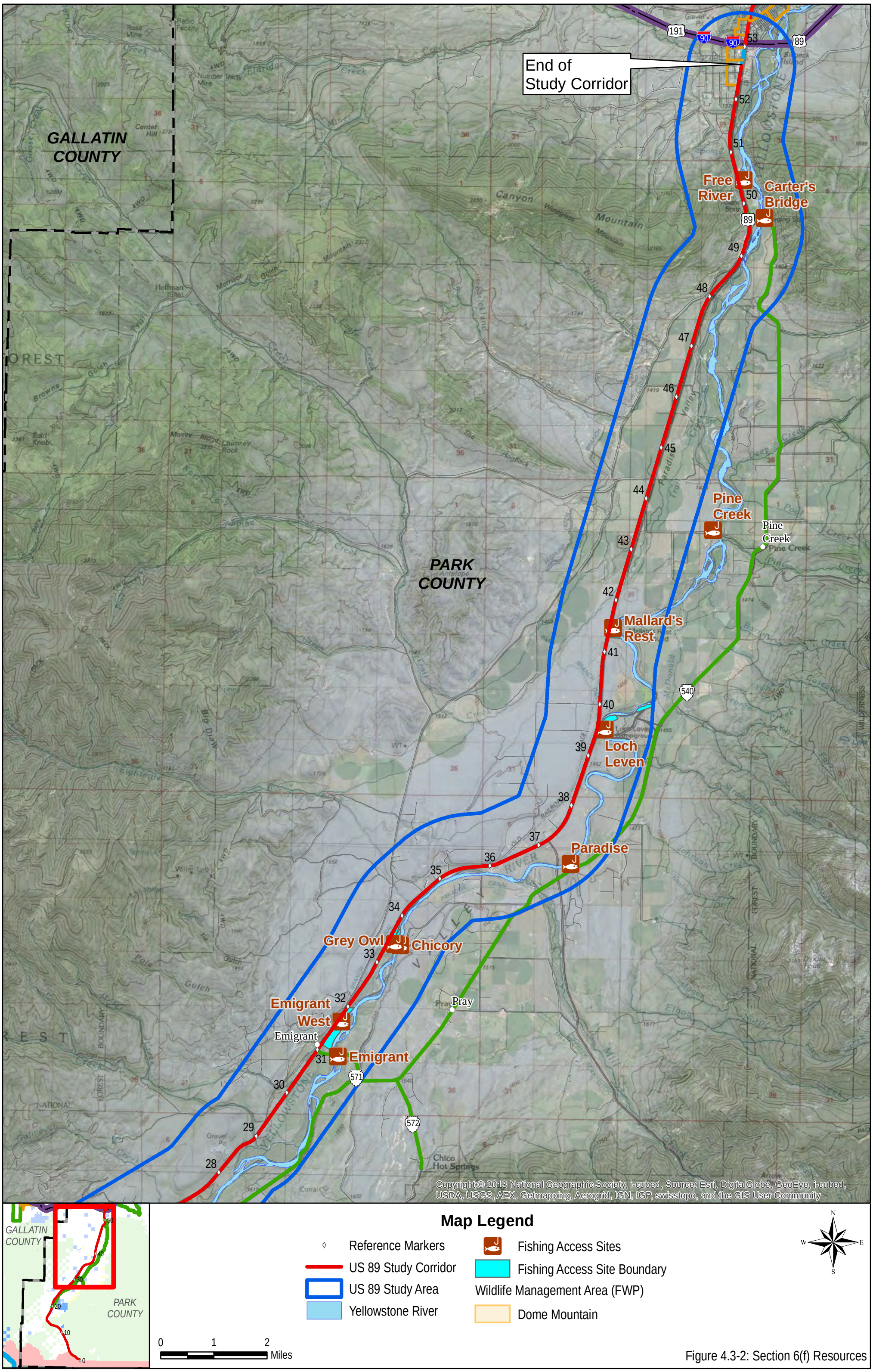


Figure 4.3-2: Section 6(f) Resources

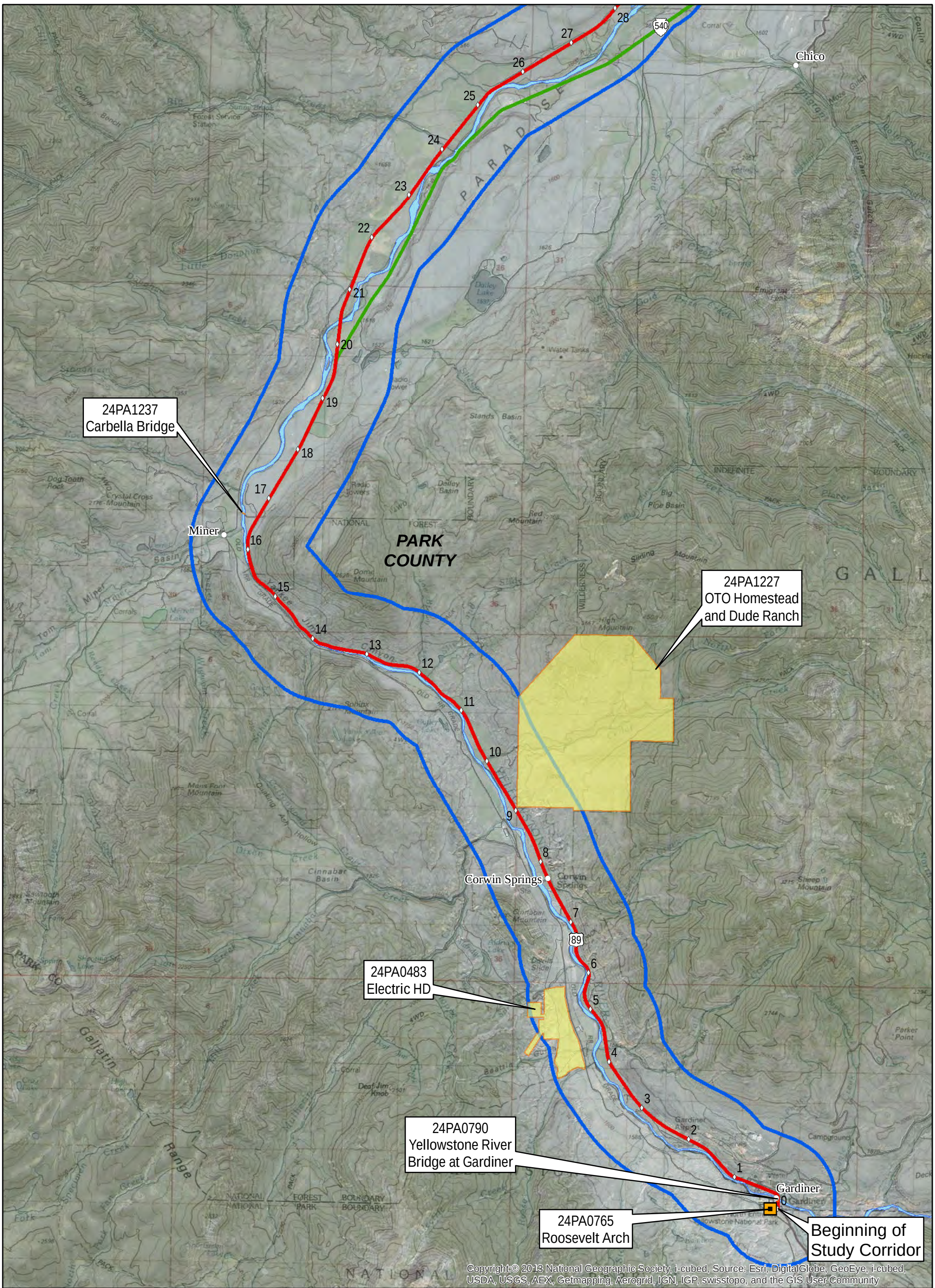


Figure 4.4-1: Cultural Resources

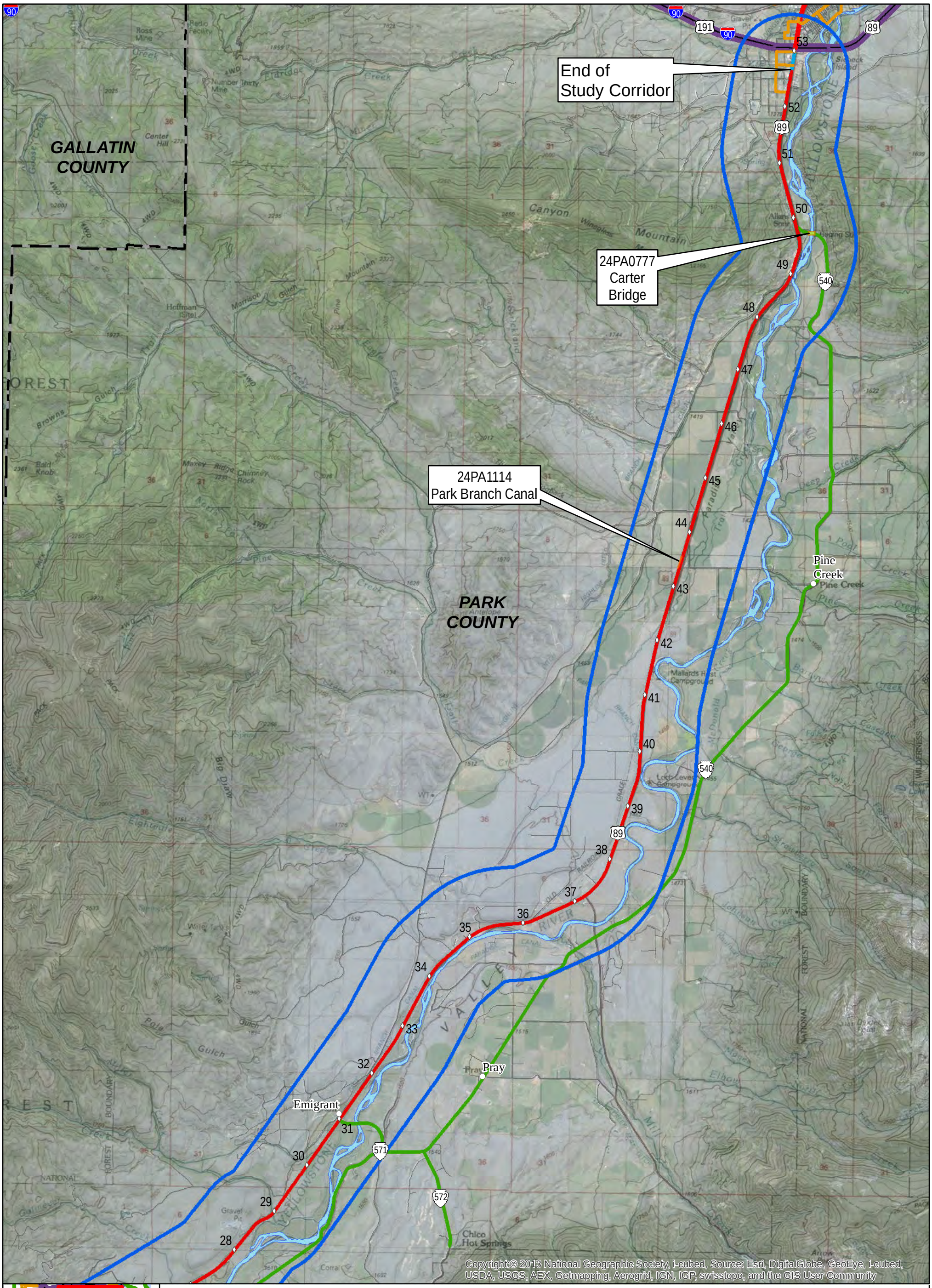


Figure 4.4-2: Cultural Resources