

Bear River WRAP Map Book



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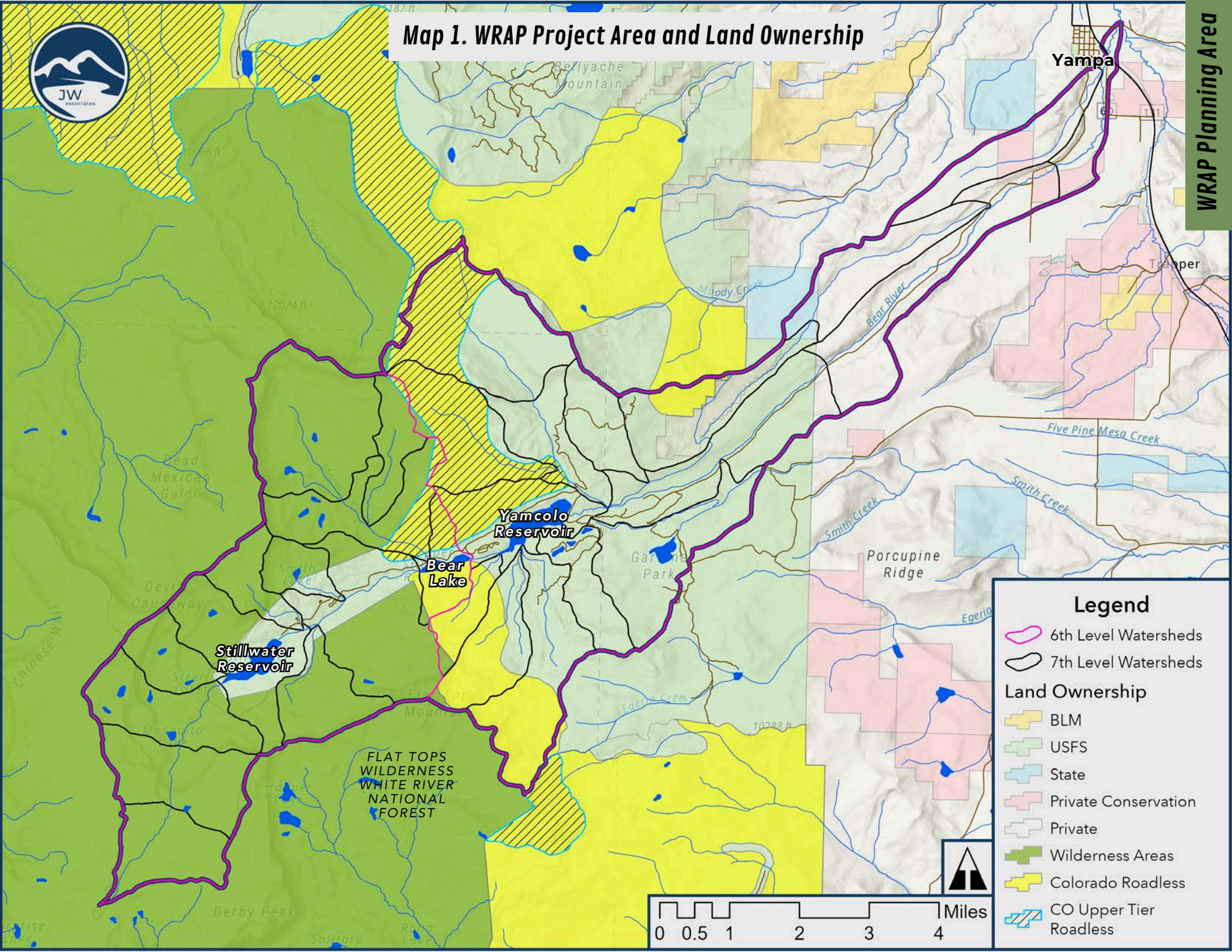
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Map 1. WRAP Project Area and Land Ownership

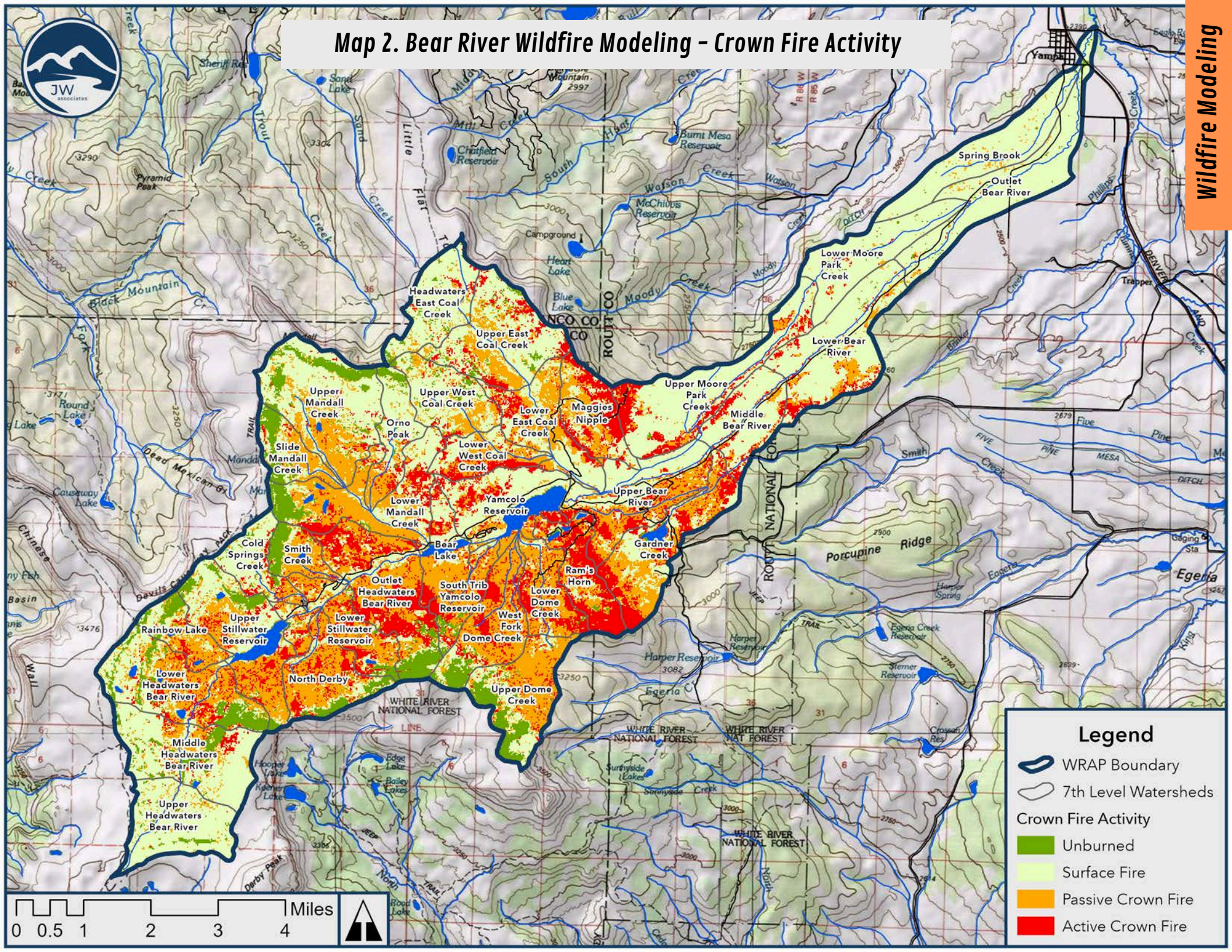
WRAP Planning Area





Map 2. Bear River Wildfire Modeling - Crown Fire Activity

wildfire Modeling



Legend

WRAP Boundary

7th Level Watersheds

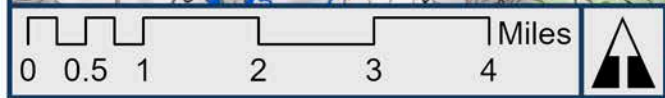
Crown Fire Activity

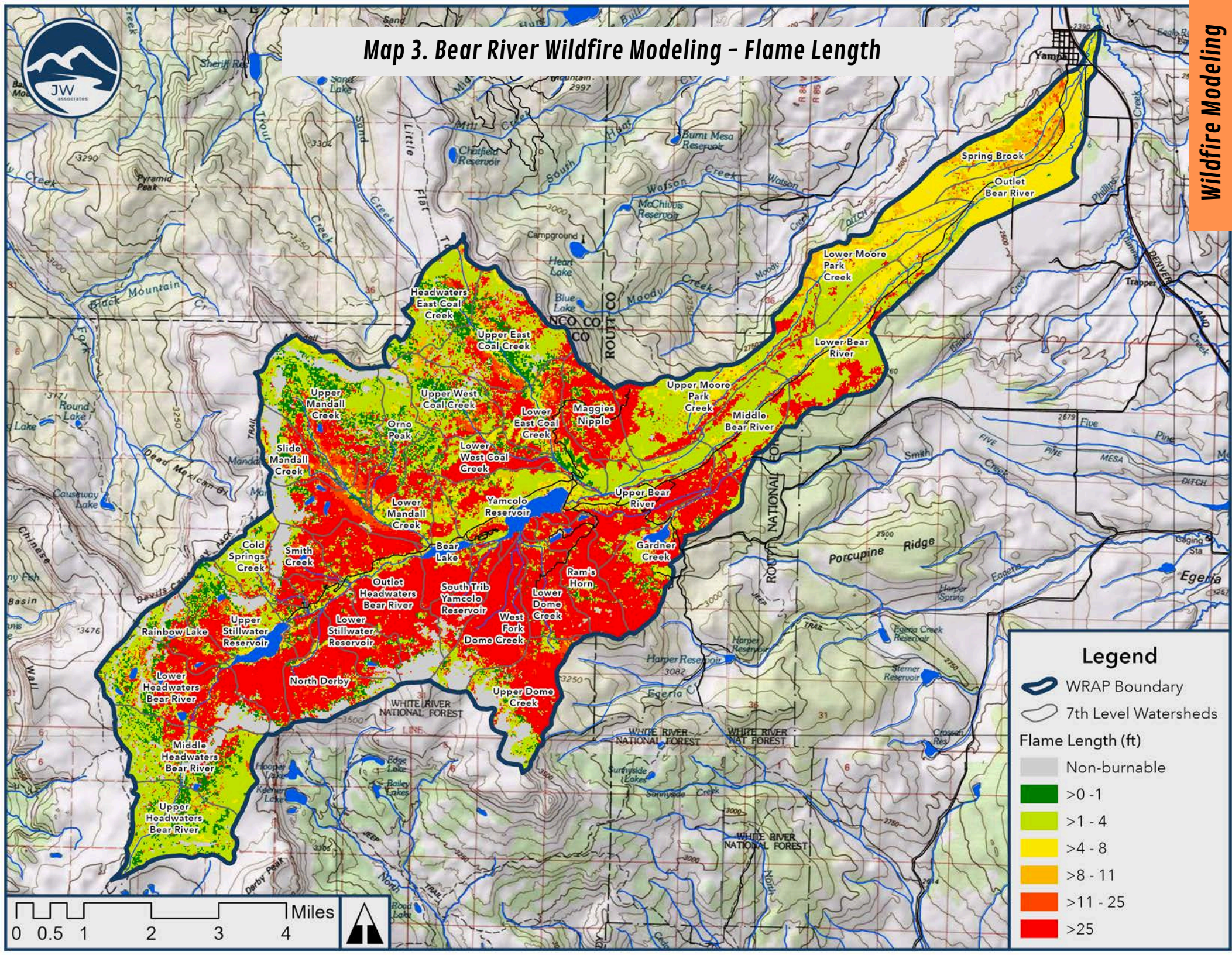
Unburned

Surface Fire

Passive Crown Fire

Active Crown Fire

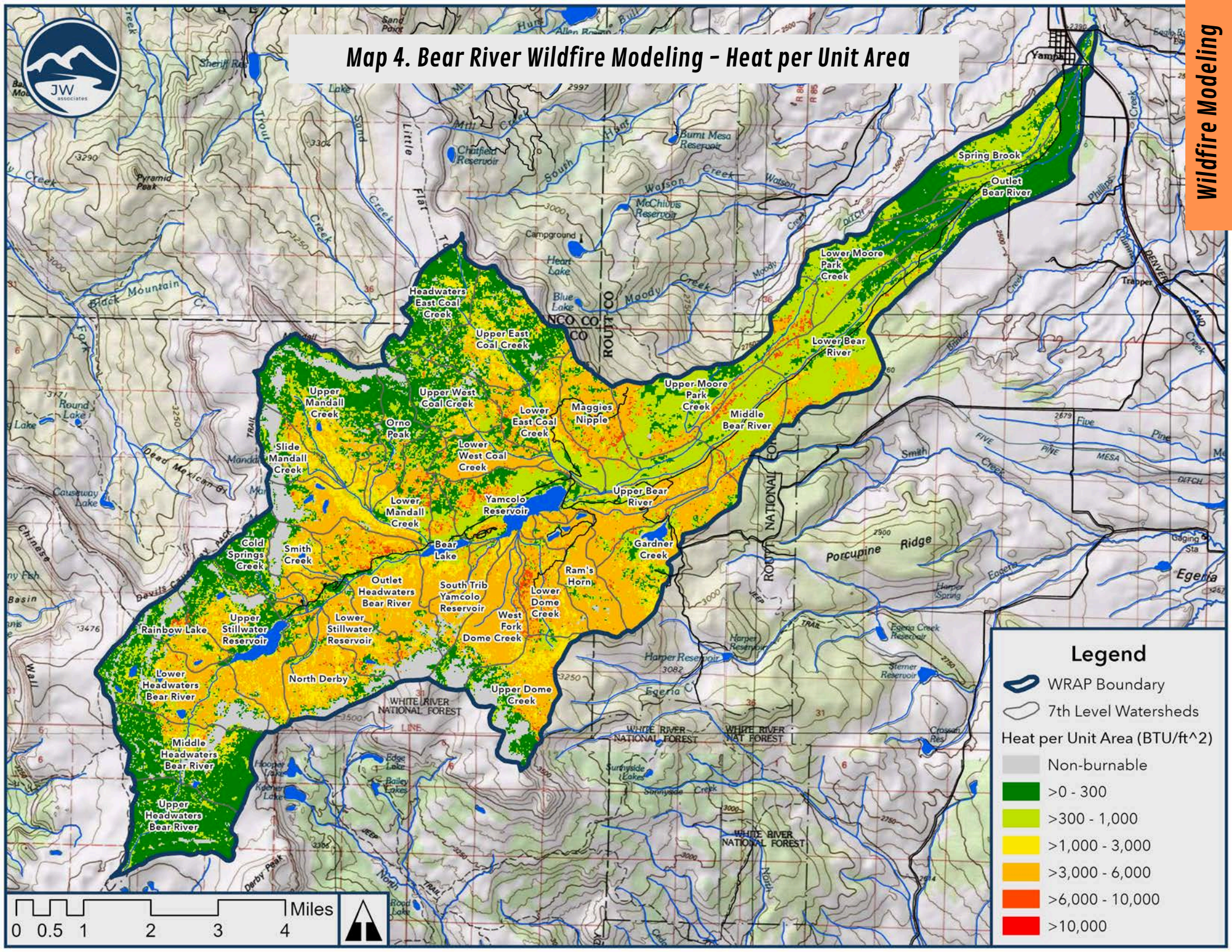






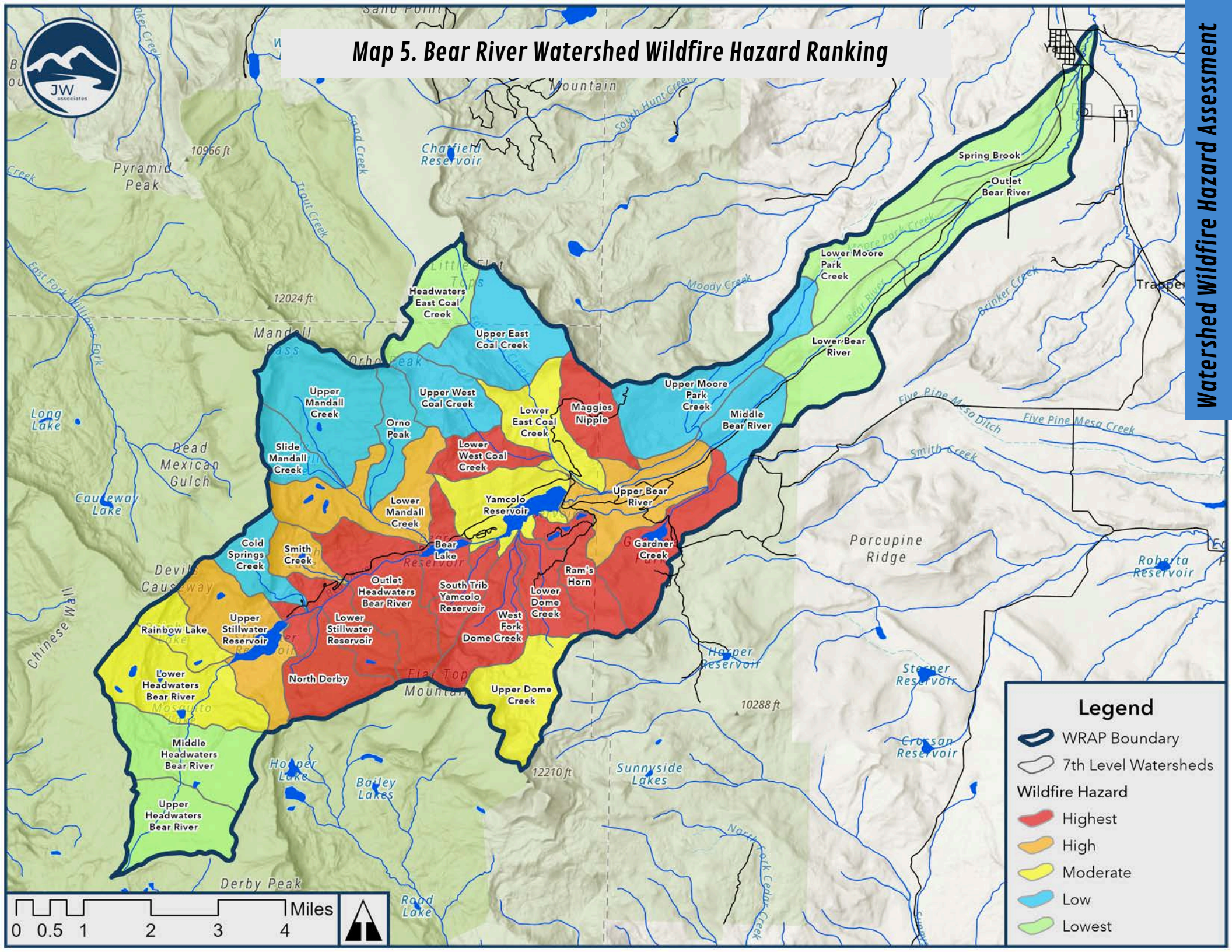
Map 4. Bear River Wildfire Modeling - Heat per Unit Area

Wildfire Modeling





Map 5. Bear River Watershed Wildfire Hazard Ranking



Legend

WRAP Boundary

7th Level Watersheds

Wildfire Hazard

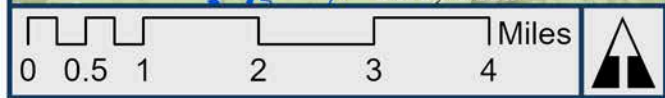
Highest

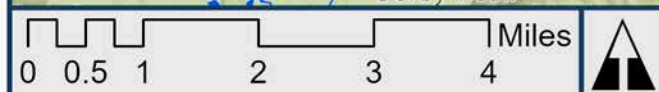
High

Moderate

Low

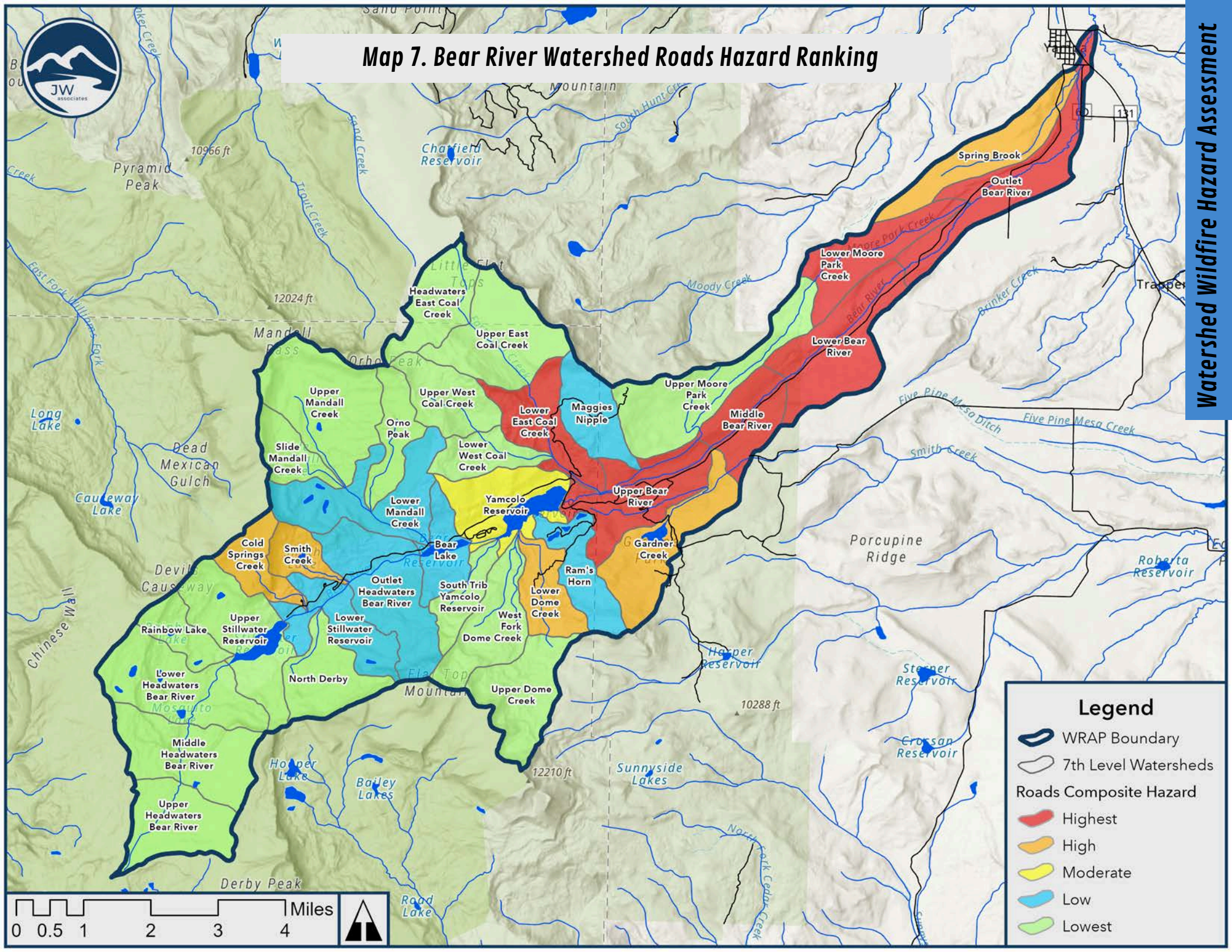
Lowest







Map 7. Bear River Watershed Roads Hazard Ranking



Legend

WRAP Boundary

7th Level Watersheds

Roads Composite Hazard

Highest

High

Moderate

Low

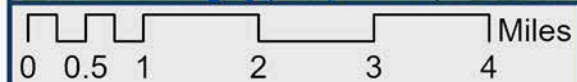
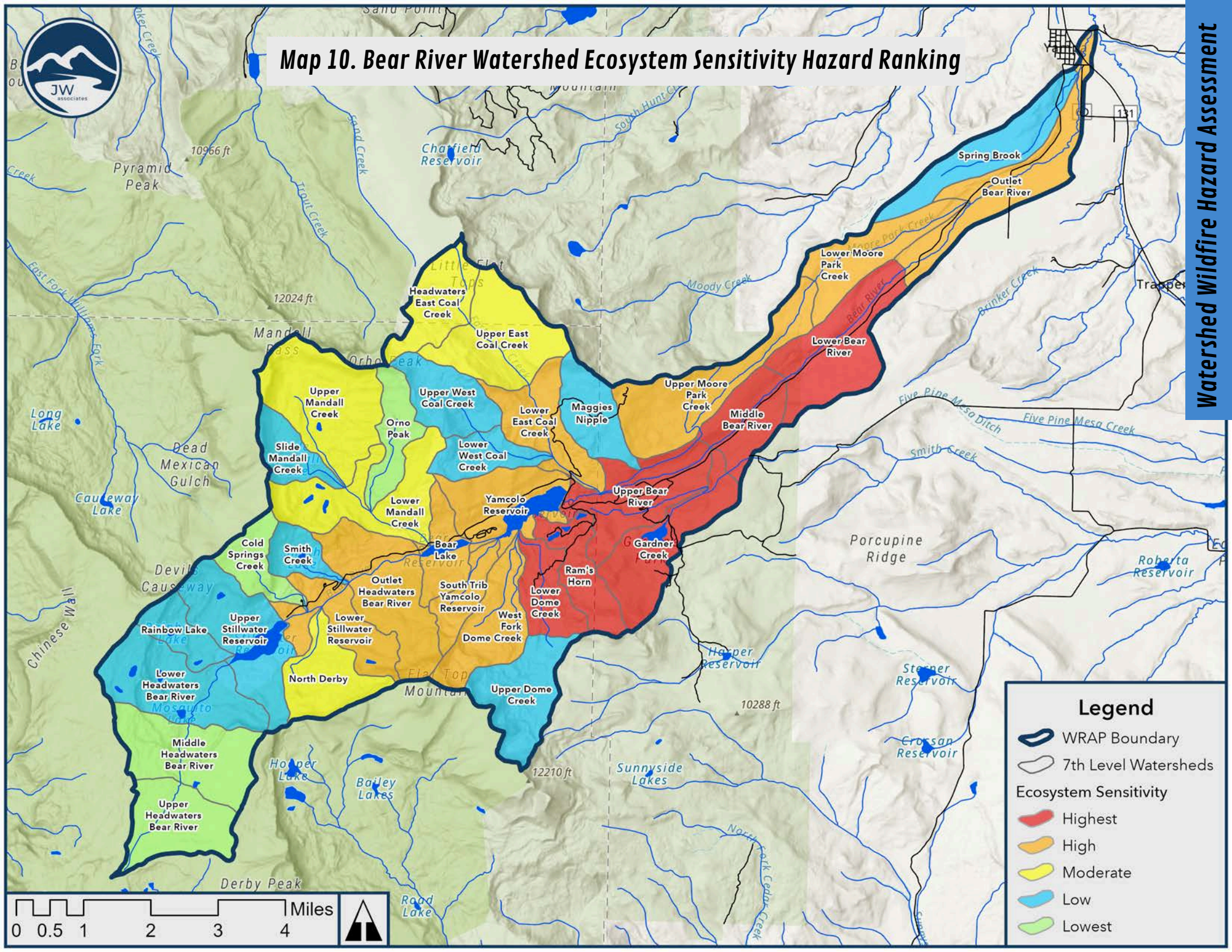
Lowest







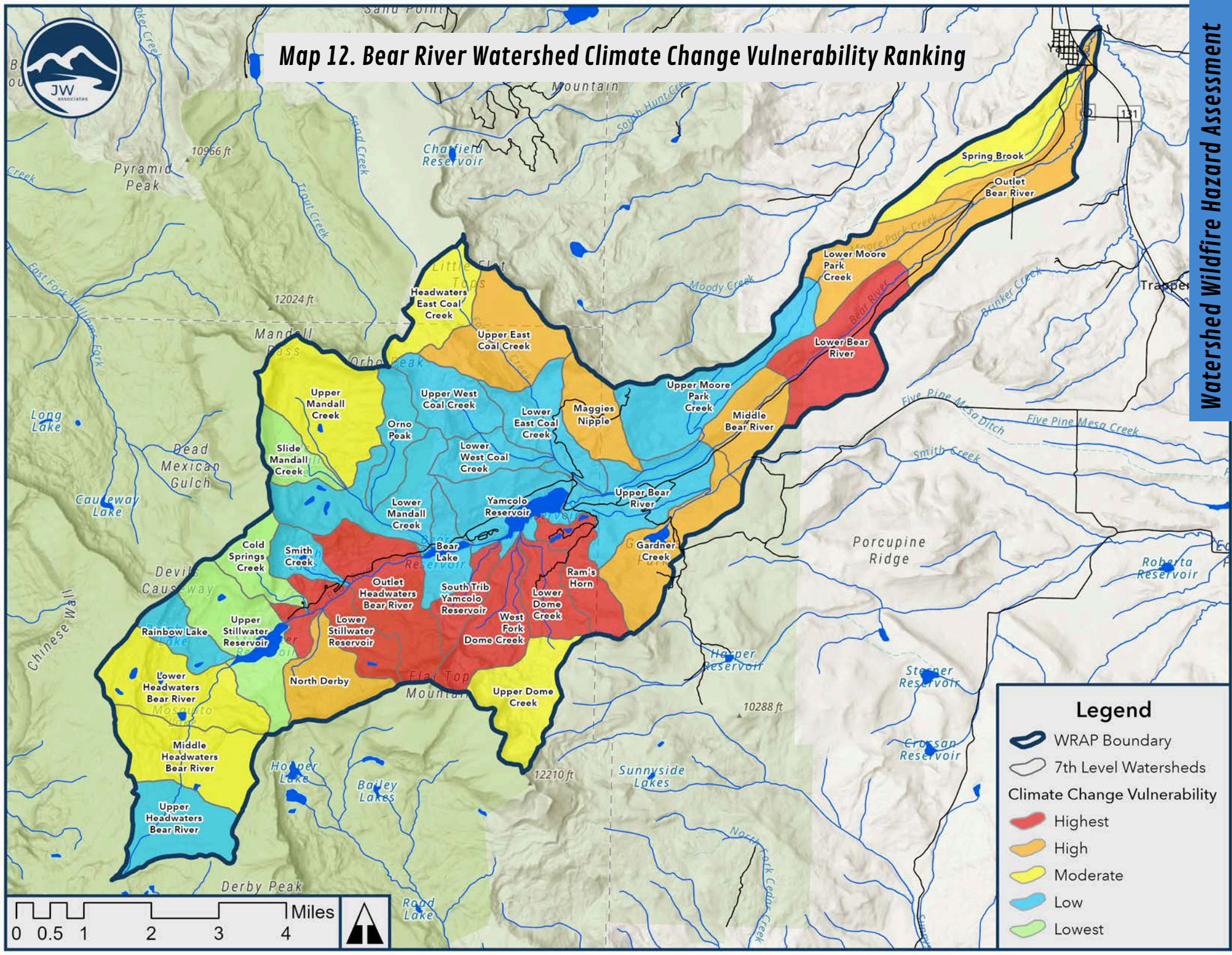
Map 10. Bear River Watershed Ecosystem Sensitivity Hazard Ranking







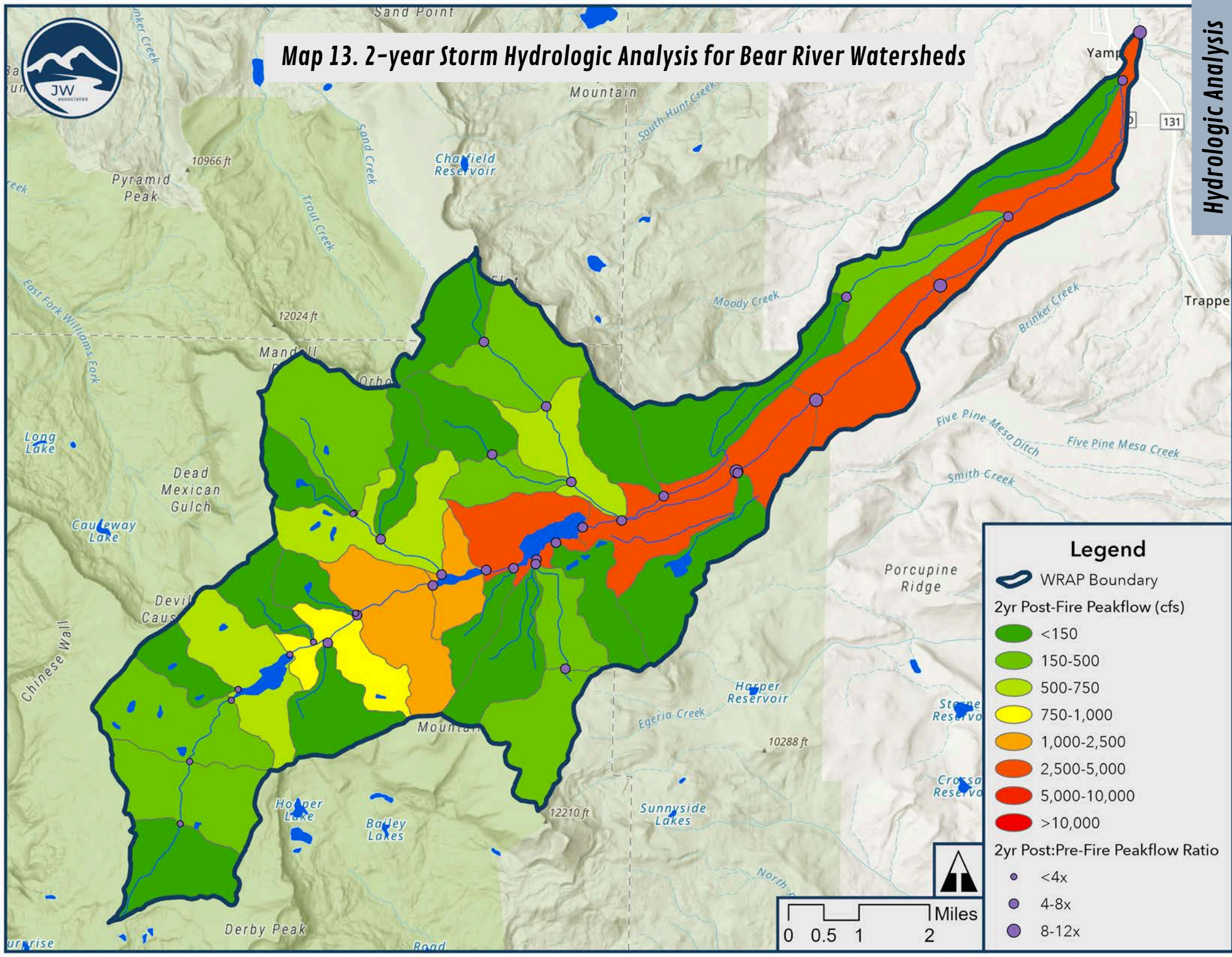
Map 12. Bear River Watershed Climate Change Vulnerability Ranking





Map 13. 2-year Storm Hydrologic Analysis for Bear River Watersheds

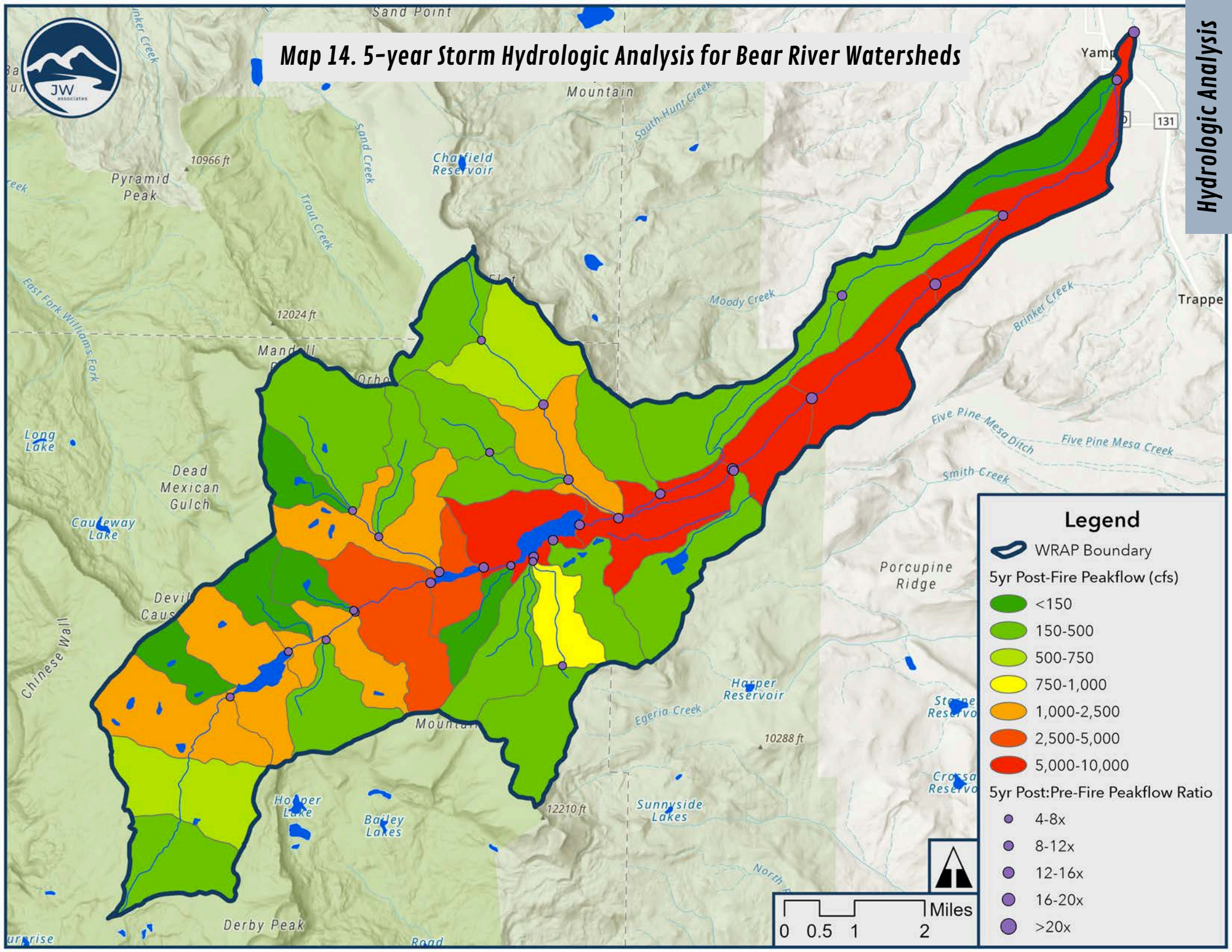
Hydrologic Analysis





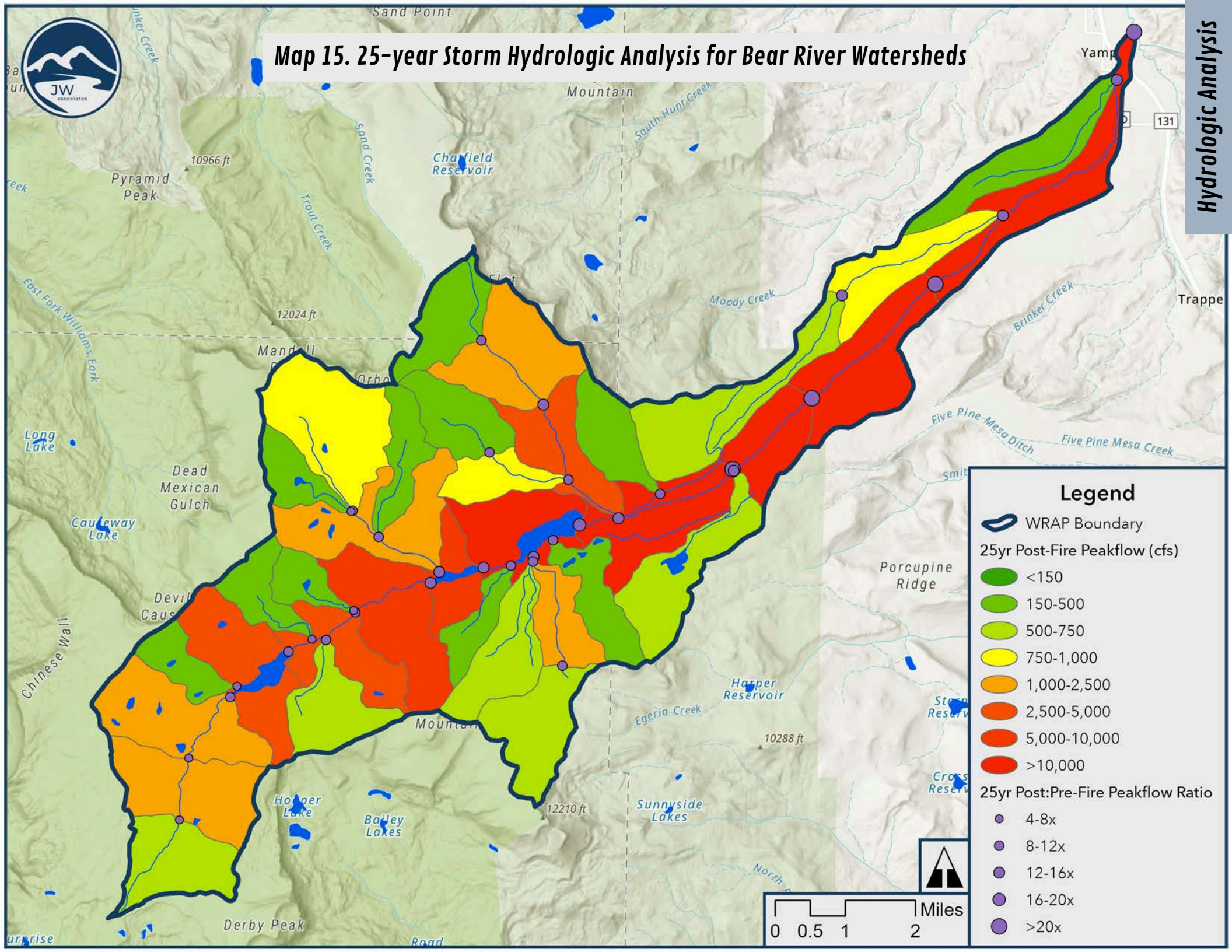
Map 14. 5-year Storm Hydrologic Analysis for Bear River Watersheds

Hydrologic Analysis





Map 15. 25-year Storm Hydrologic Analysis for Bear River Watersheds

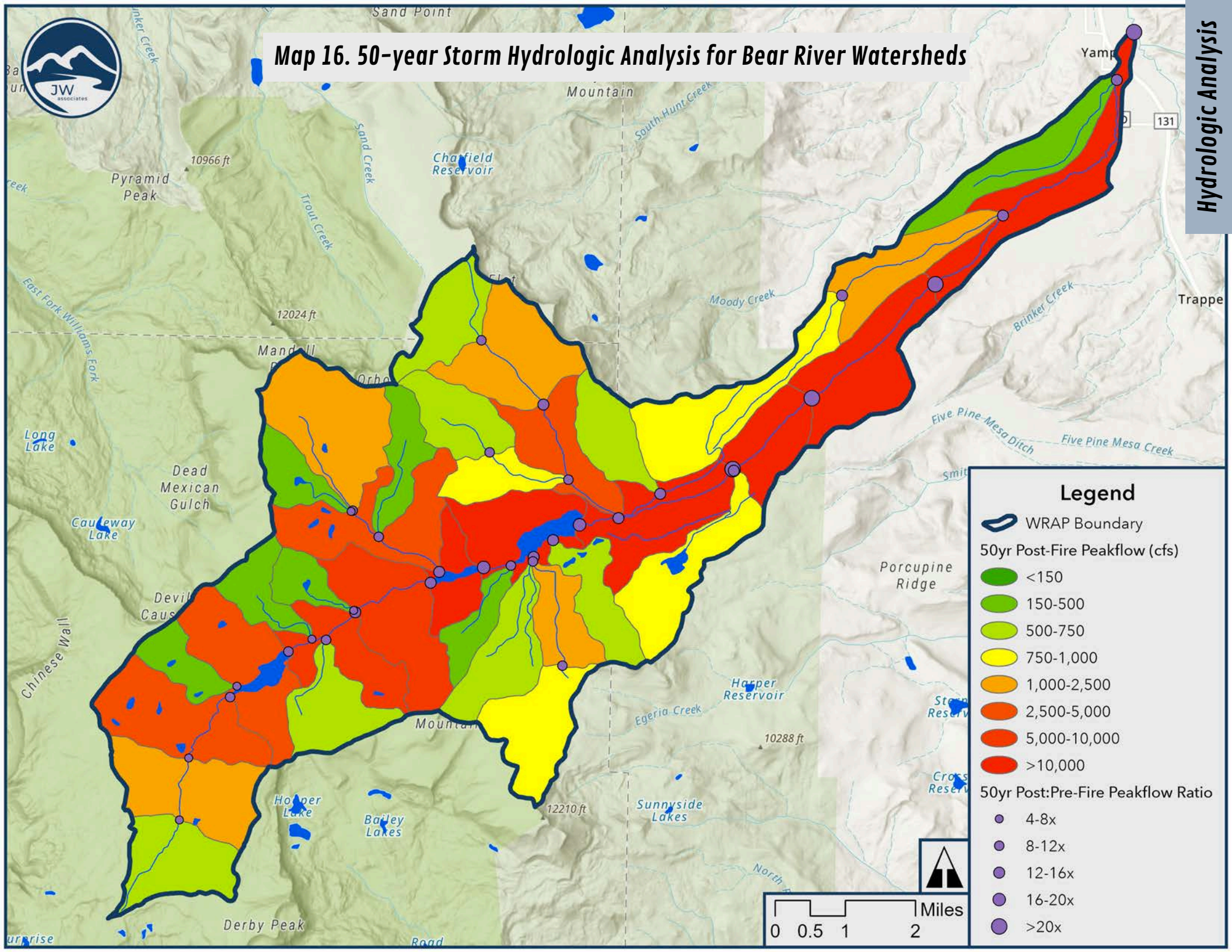


Legend

- WRAP Boundary
- 25yr Post-Fire Peakflow (cfs)
 - <150
 - 150-500
 - 500-750
 - 750-1,000
 - 1,000-2,500
 - 2,500-5,000
 - 5,000-10,000
 - >10,000
- 25yr Post:Pre-Fire Peakflow Ratio
 - 4-8x
 - 8-12x
 - 12-16x
 - 16-20x
 - >20x

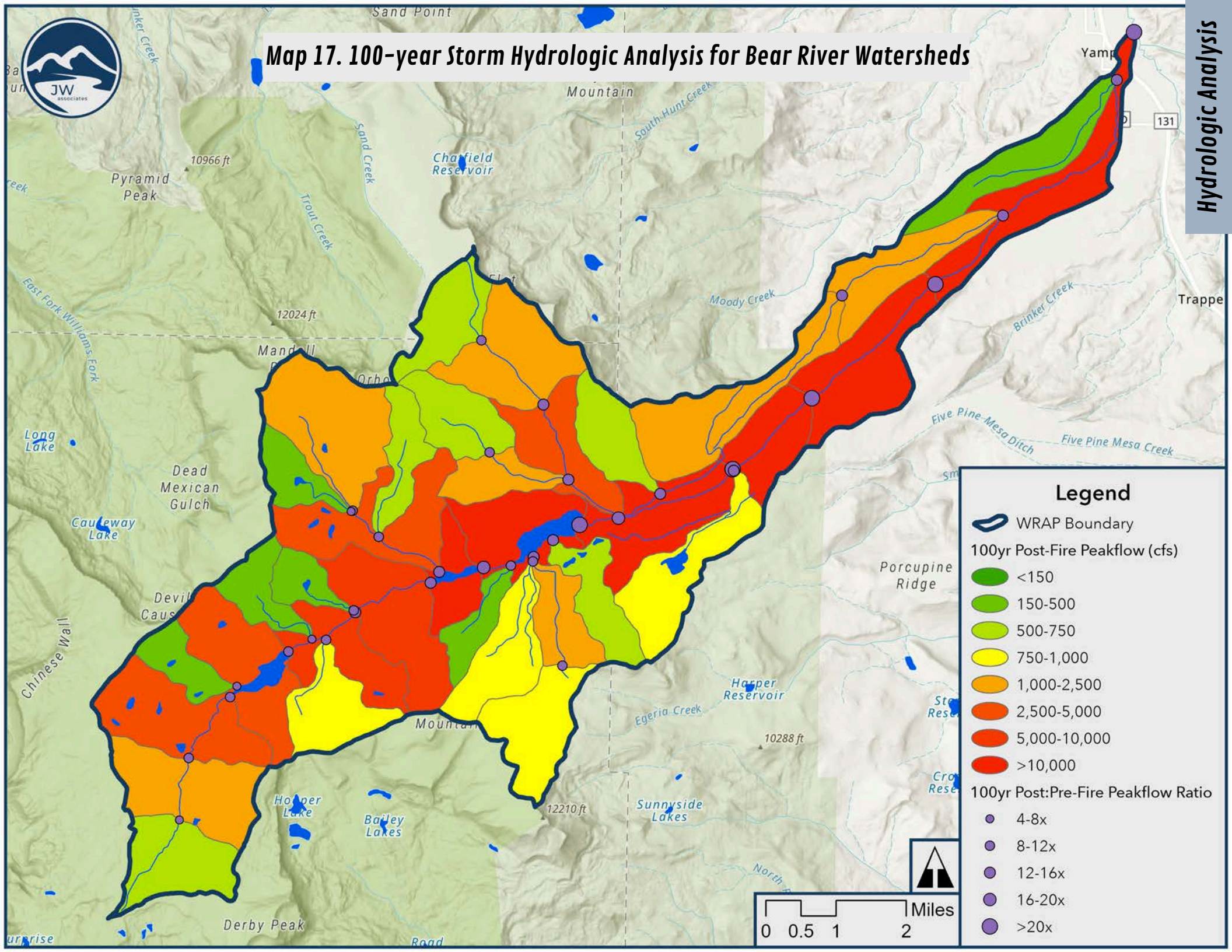


Map 16. 50-year Storm Hydrologic Analysis for Bear River Watersheds

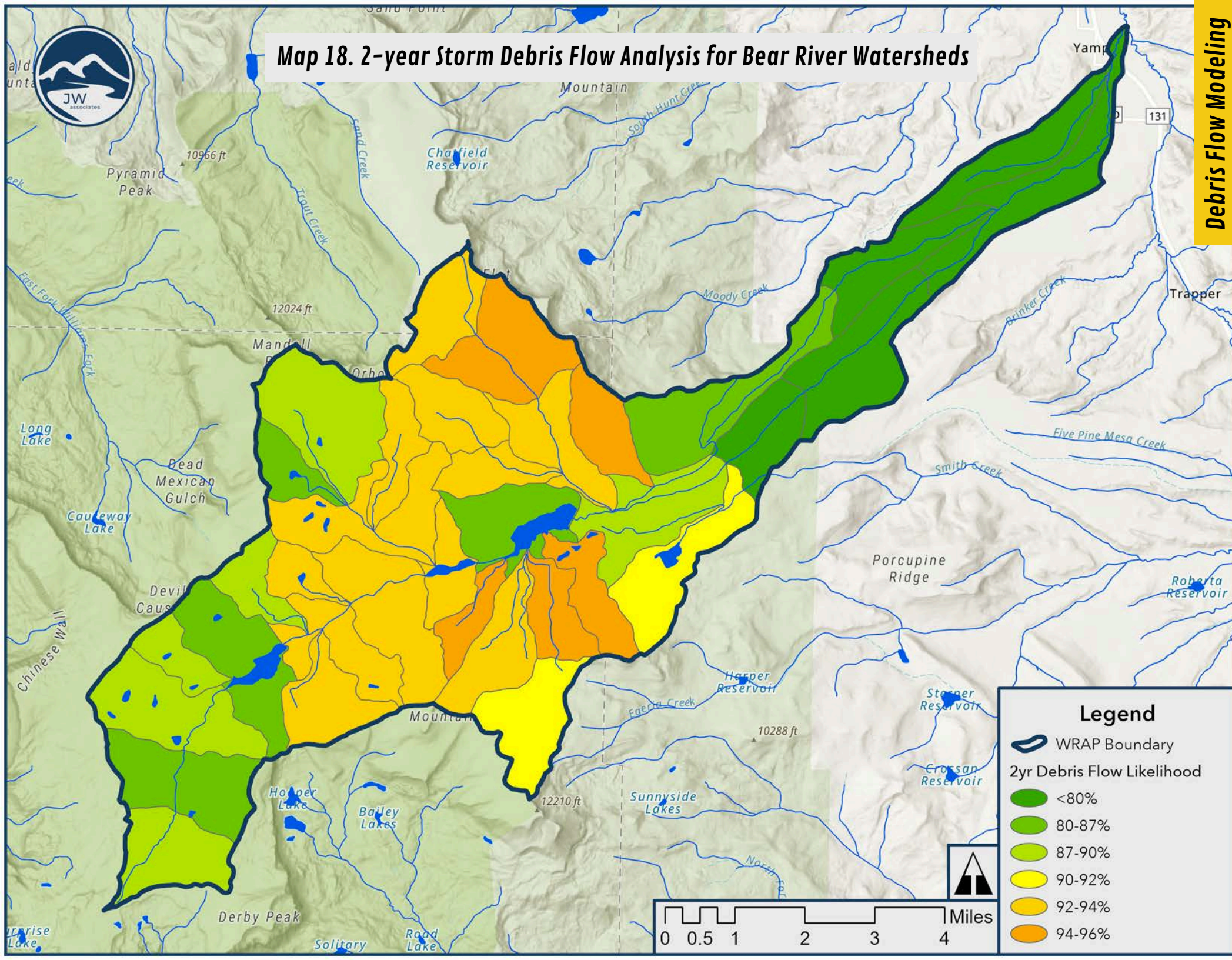




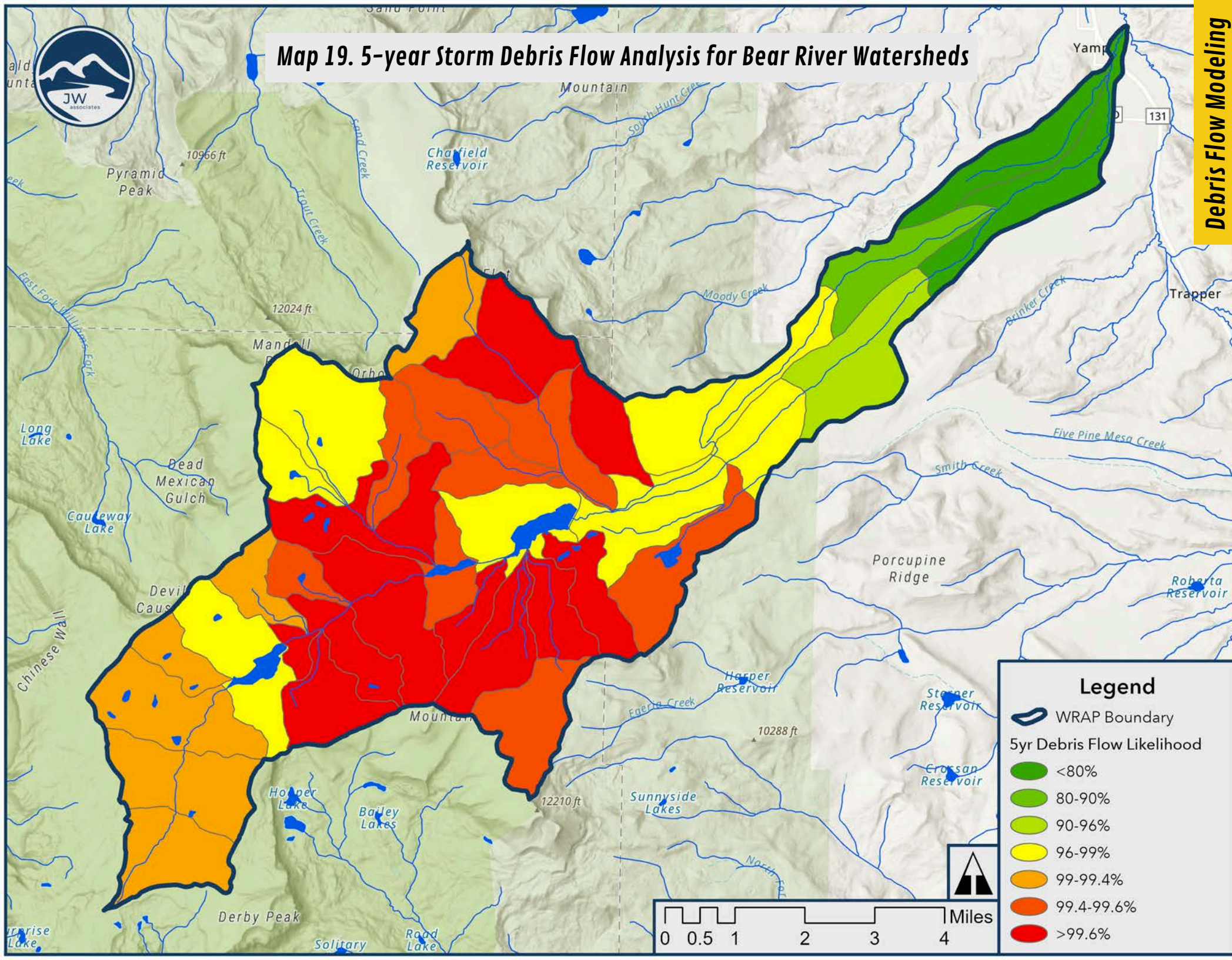
Map 17. 100-year Storm Hydrologic Analysis for Bear River Watersheds



Map 18. 2-year Storm Debris Flow Analysis for Bear River Watersheds



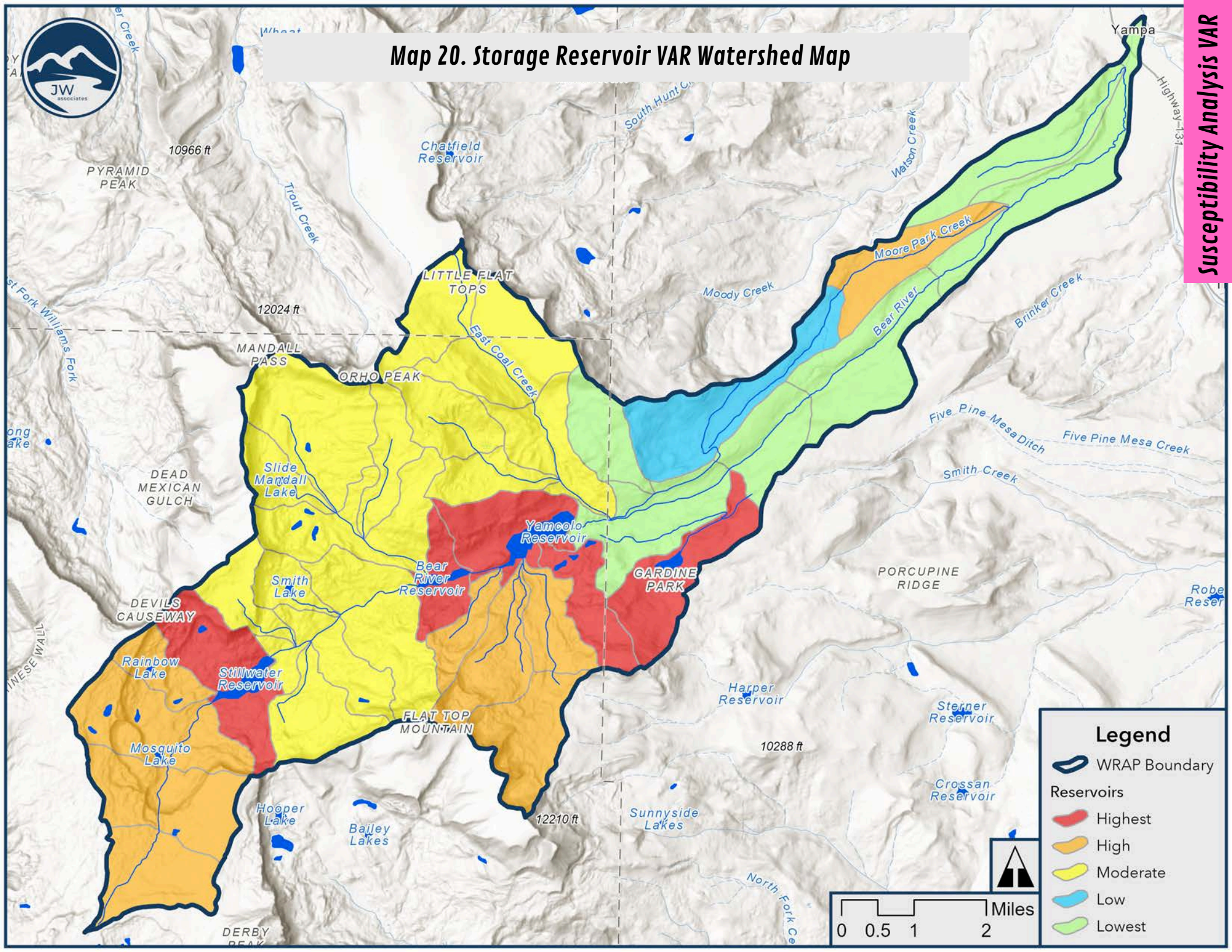
Map 19. 5-year Storm Debris Flow Analysis for Bear River Watersheds





Map 20. Storage Reservoir VAR Watershed Map

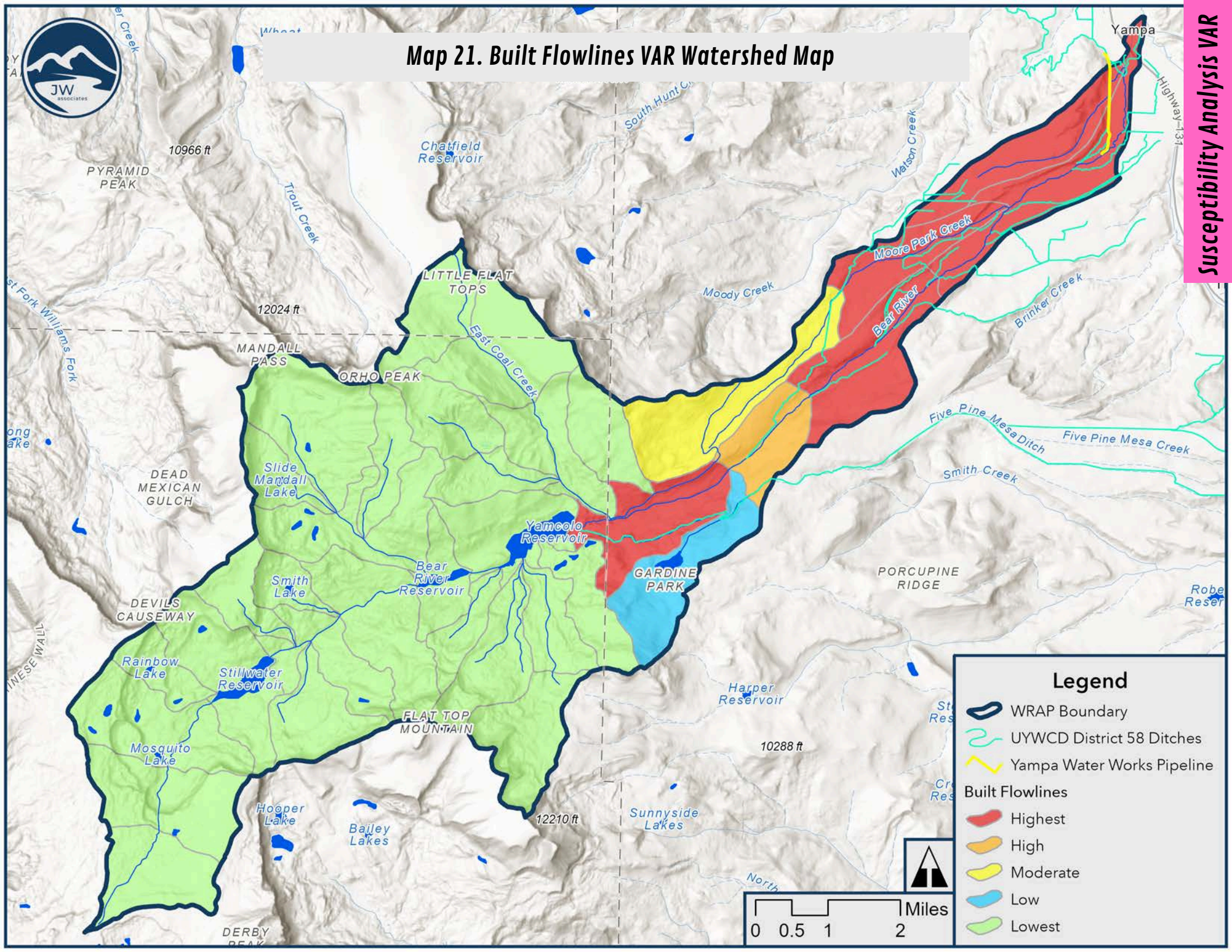
Susceptibility Analysis VAR





Map 21. Built Flowlines VAR Watershed Map

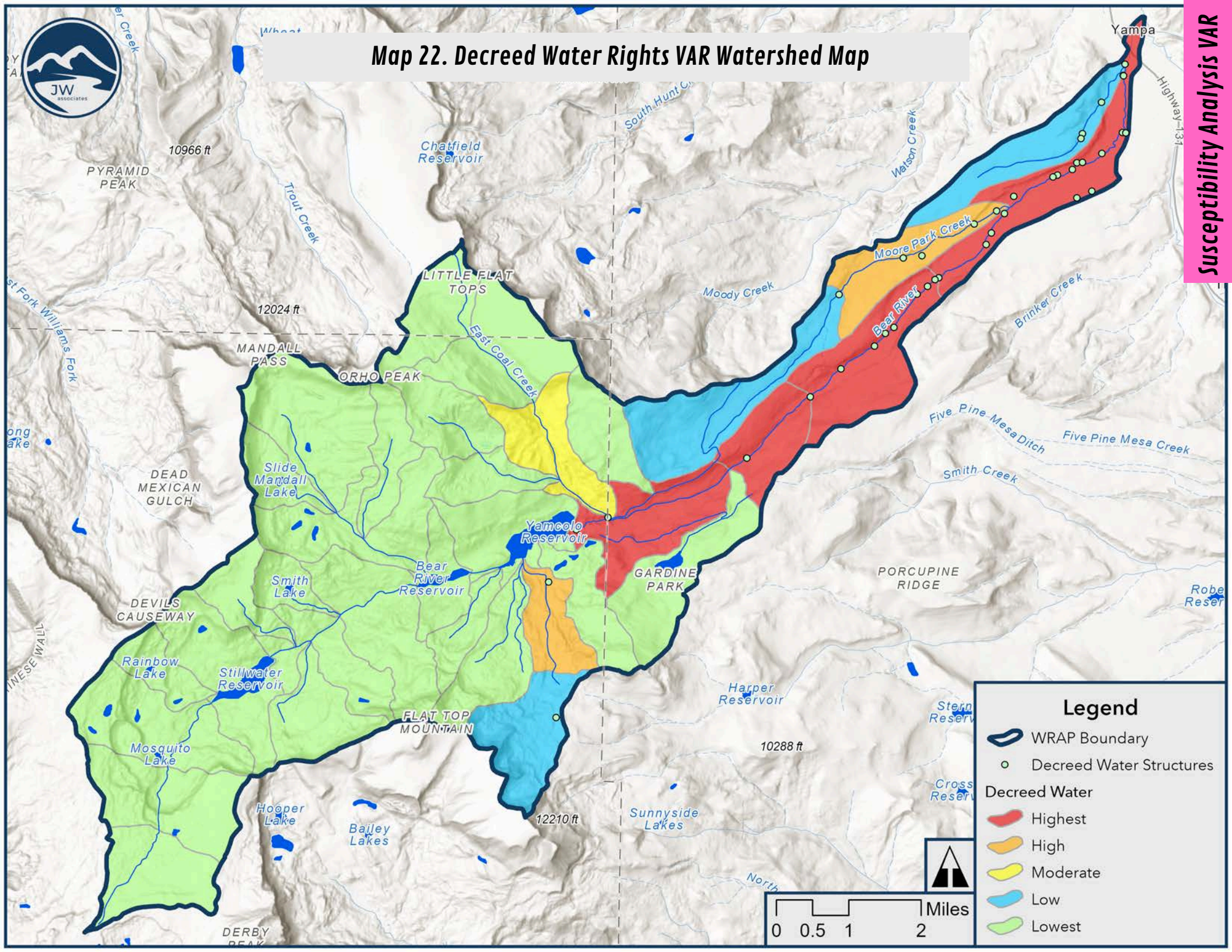
Susceptibility Analysis VAR





Map 22. Decreed Water Rights VAR Watershed Map

Susceptibility Analysis VAR



Legend

WRAP Boundary

Decreed Water Structures

Decreed Water

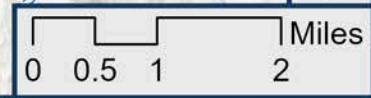
Highest

High

Moderate

Low

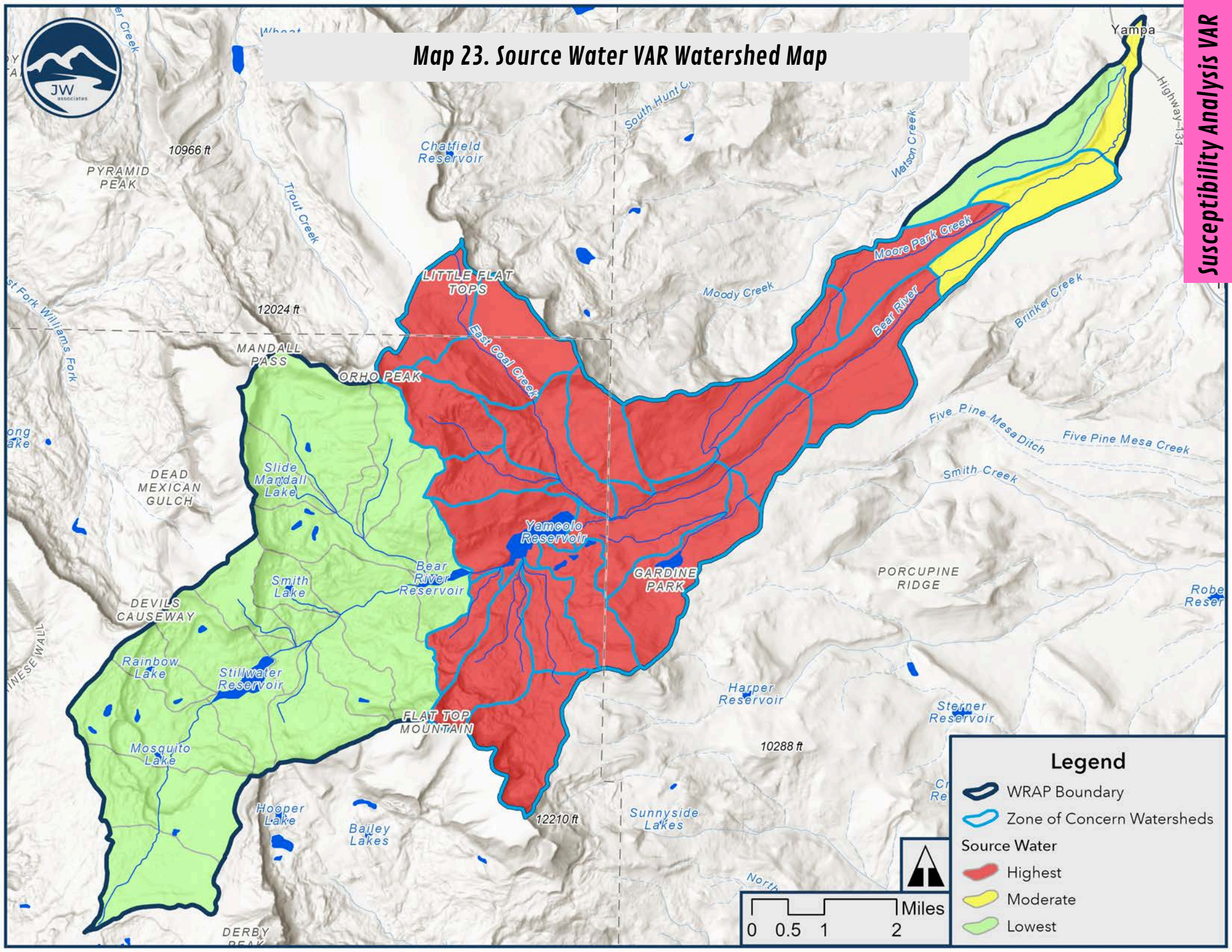
Lowest





Map 23. Source Water VAR Watershed Map

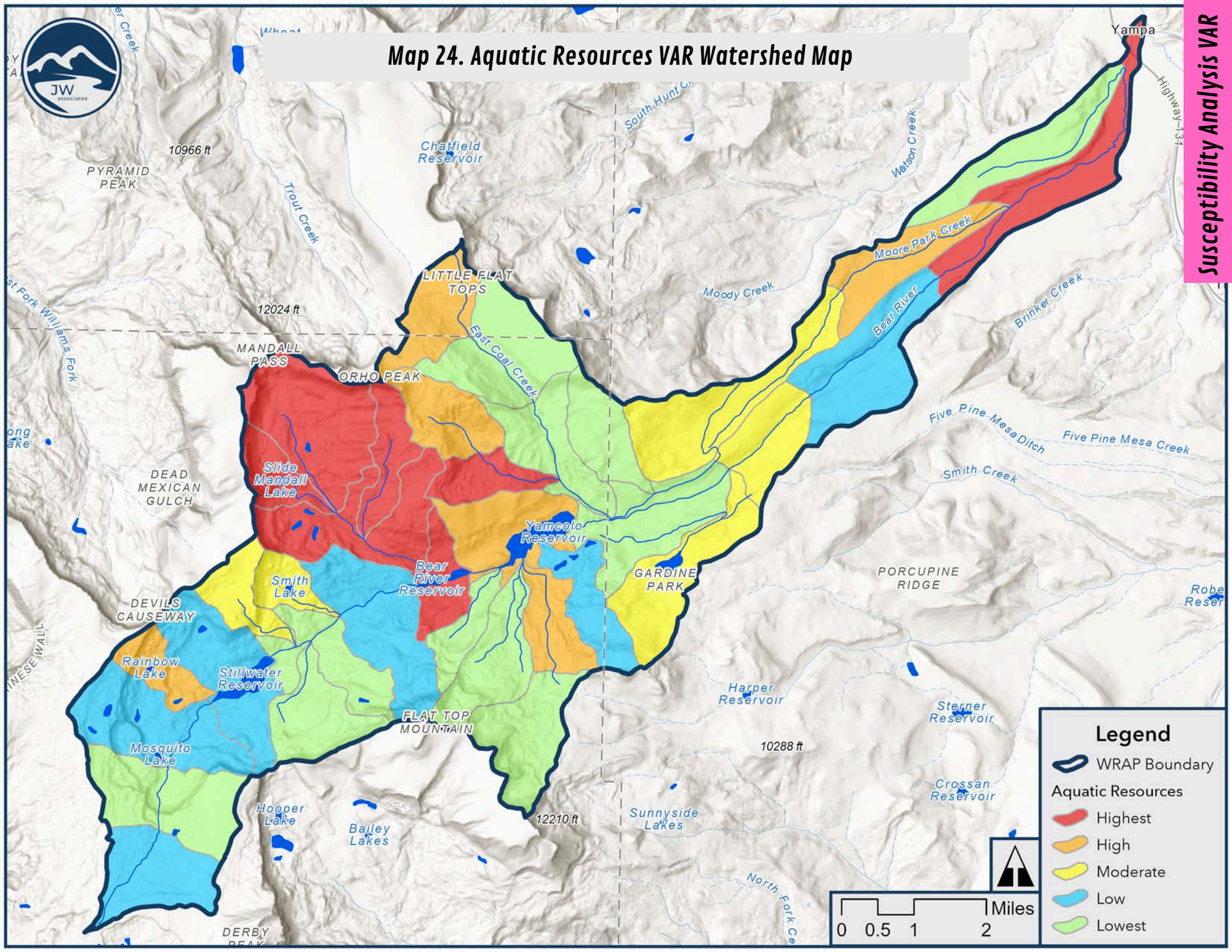
Susceptibility Analysis VAR





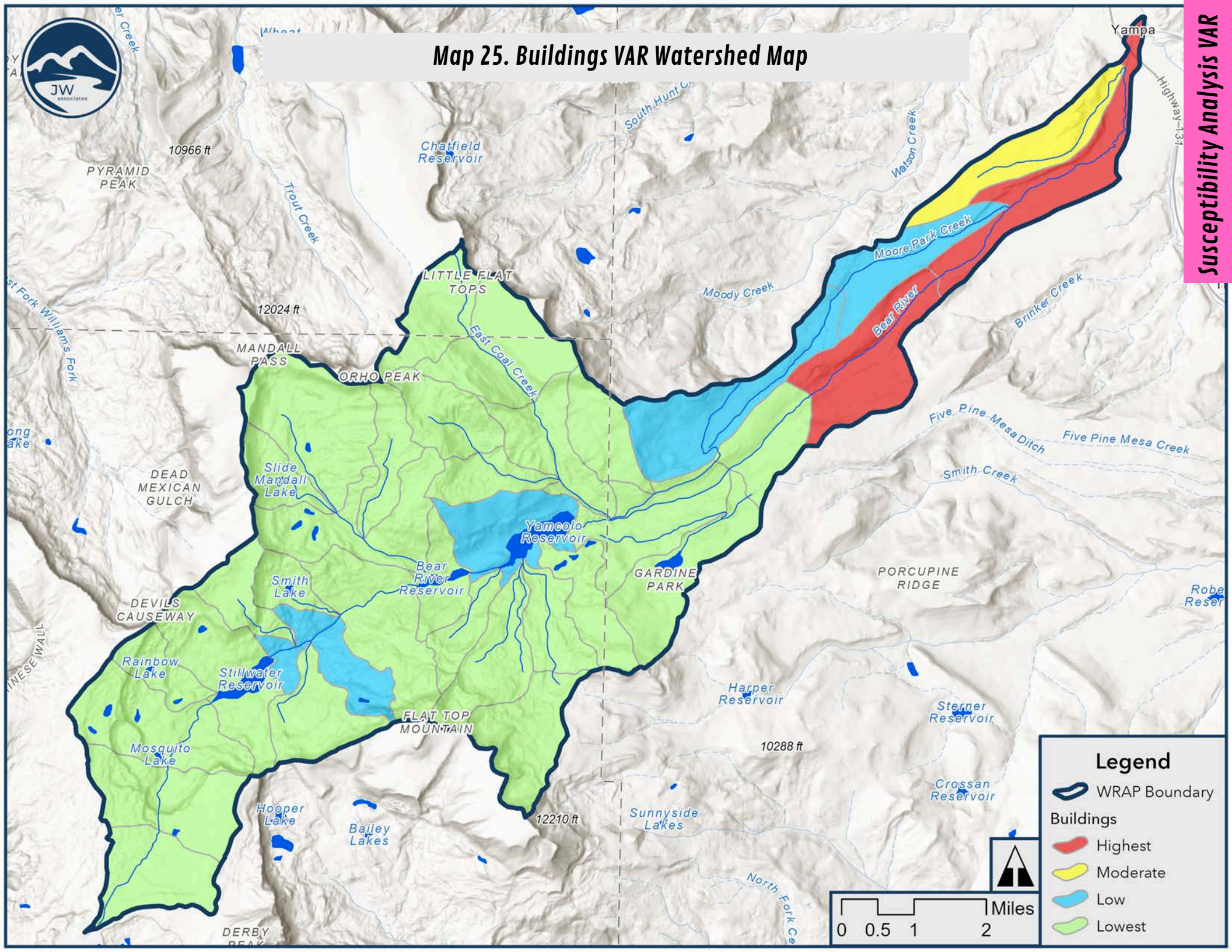
Map 24. Aquatic Resources VAR Watershed Map

Susceptibility Analysis VAR





Map 25. Buildings VAR Watershed Map



Legend

 WRAP Boundary

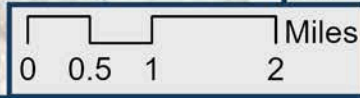
Buildings

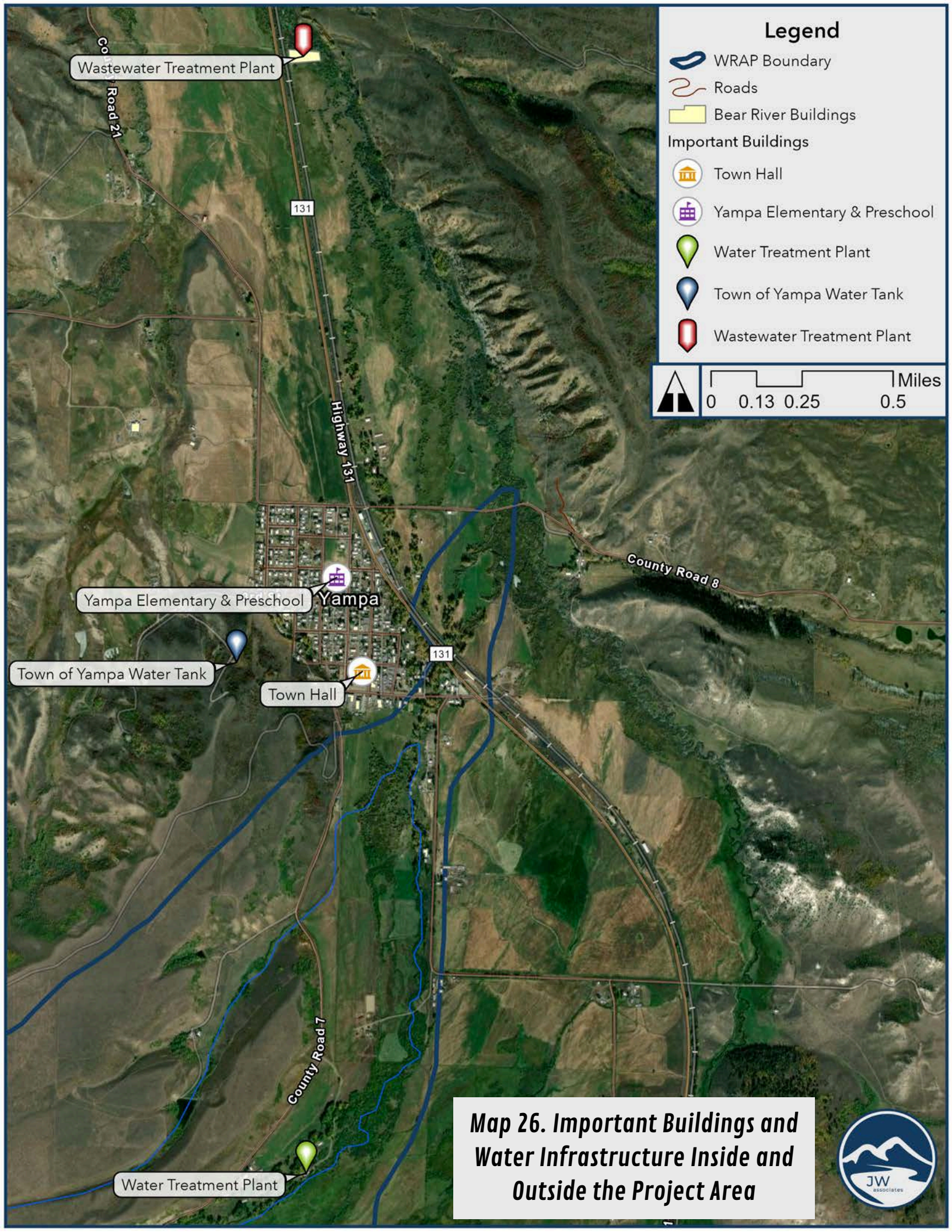
 Highest

 Moderate

 Low

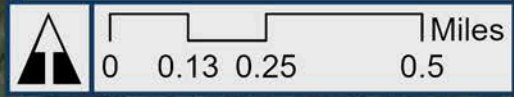
 Lowest





Legend

-  WRAP Boundary
-  Roads
-  Bear River Buildings
- Important Buildings**
 -  Town Hall
 -  Yampa Elementary & Preschool
 -  Water Treatment Plant
 -  Town of Yampa Water Tank
 -  Wastewater Treatment Plant



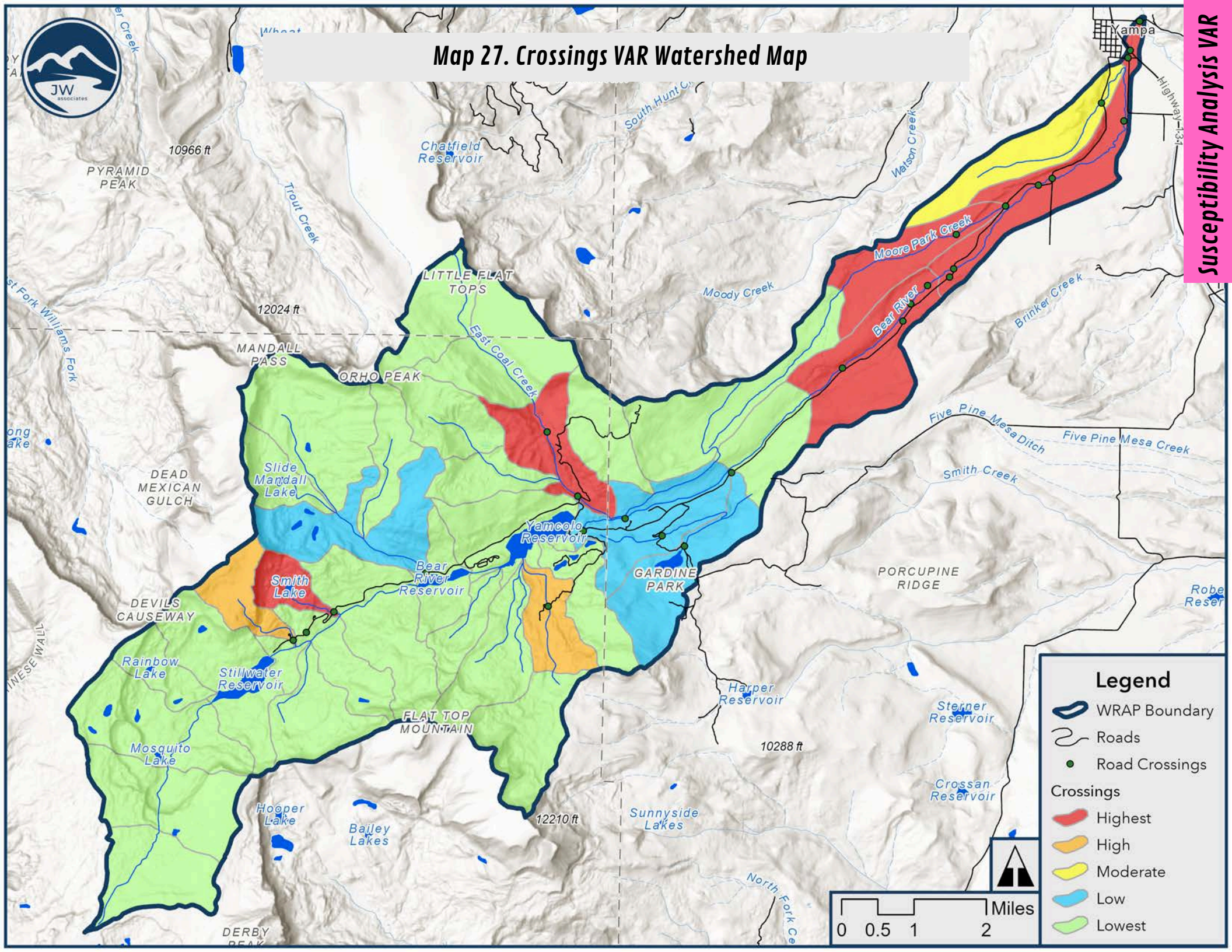
Map 26. Important Buildings and Water Infrastructure Inside and Outside the Project Area





Map 27. Crossings VAR Watershed Map

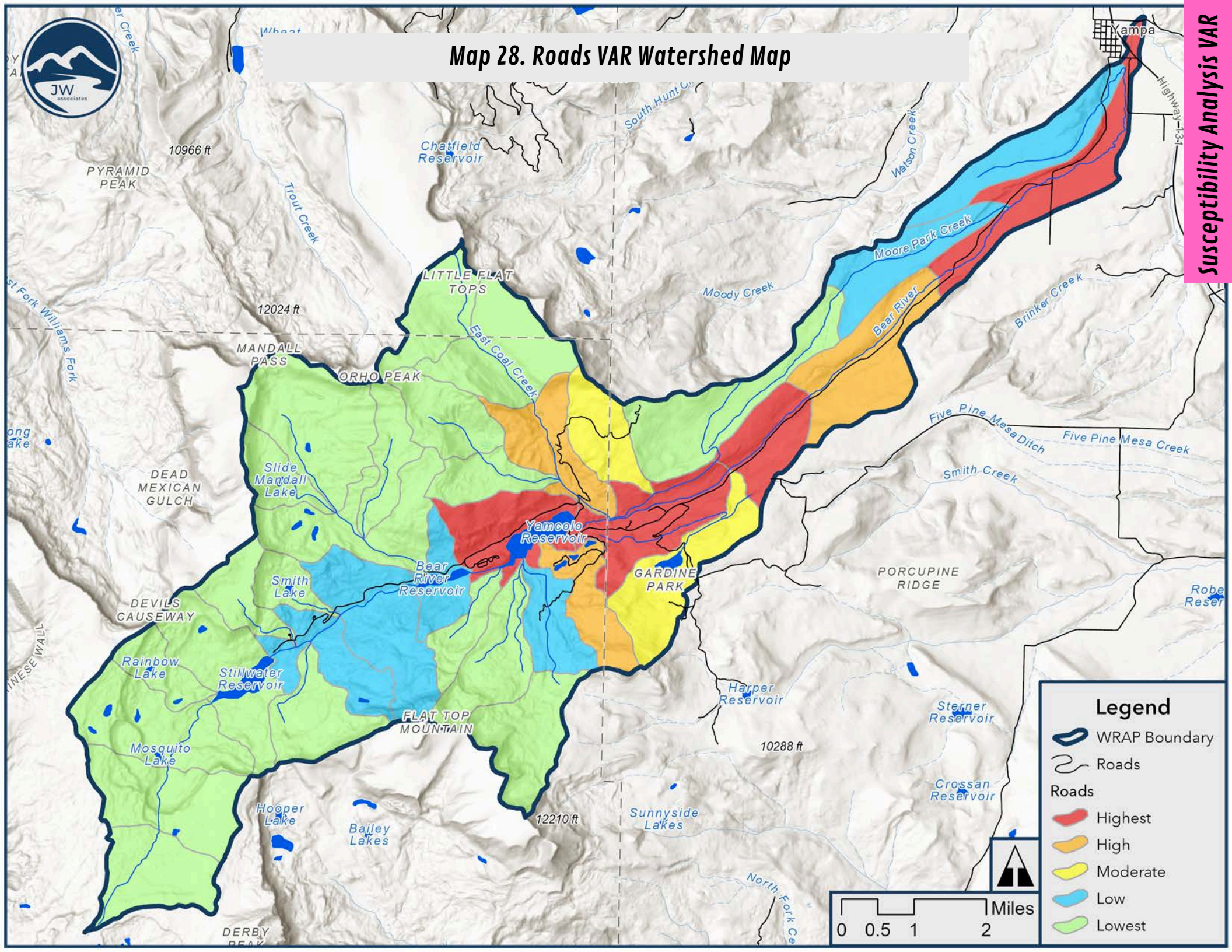
Susceptibility Analysis VAR





Map 28. Roads VAR Watershed Map

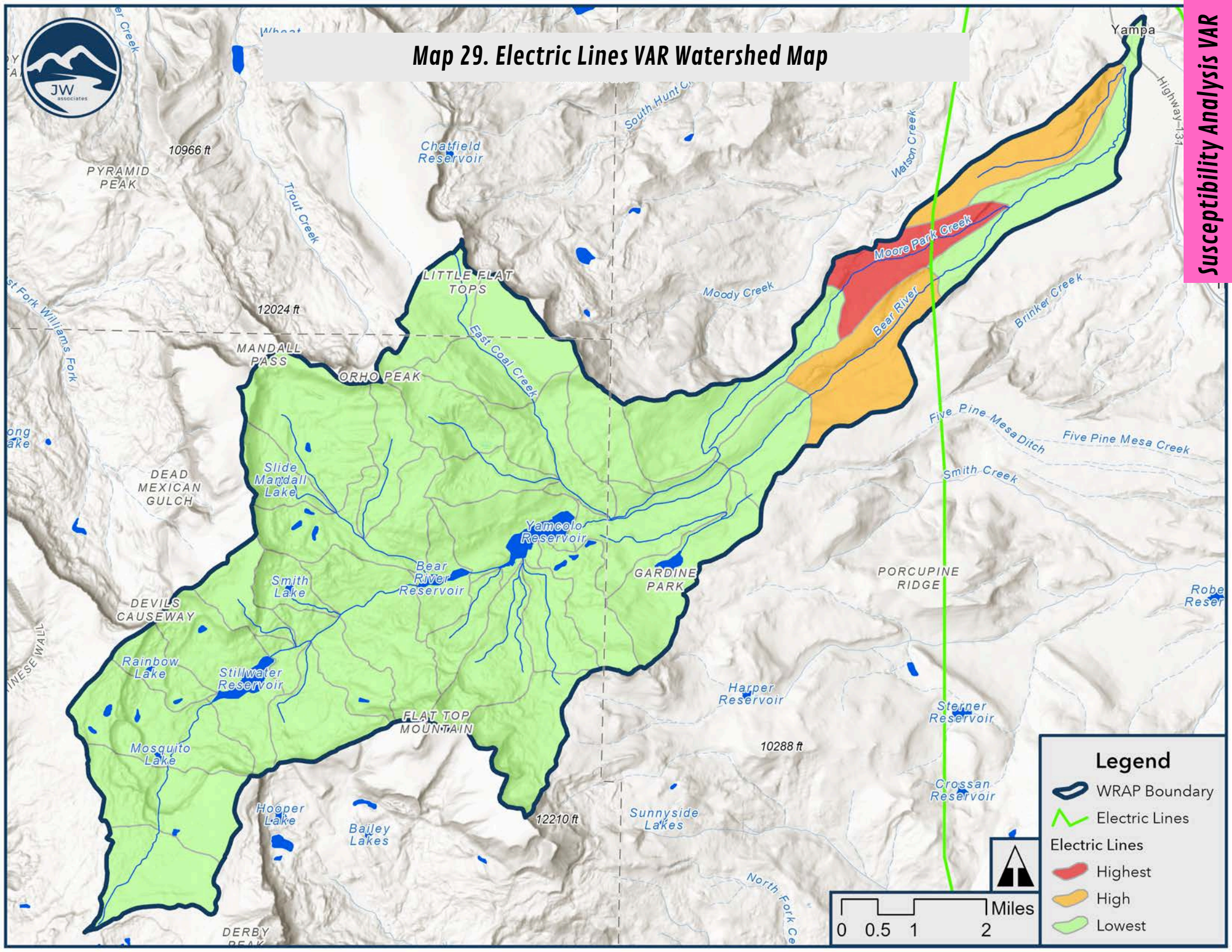
Susceptibility Analysis VAR





Map 29. Electric Lines VAR Watershed Map

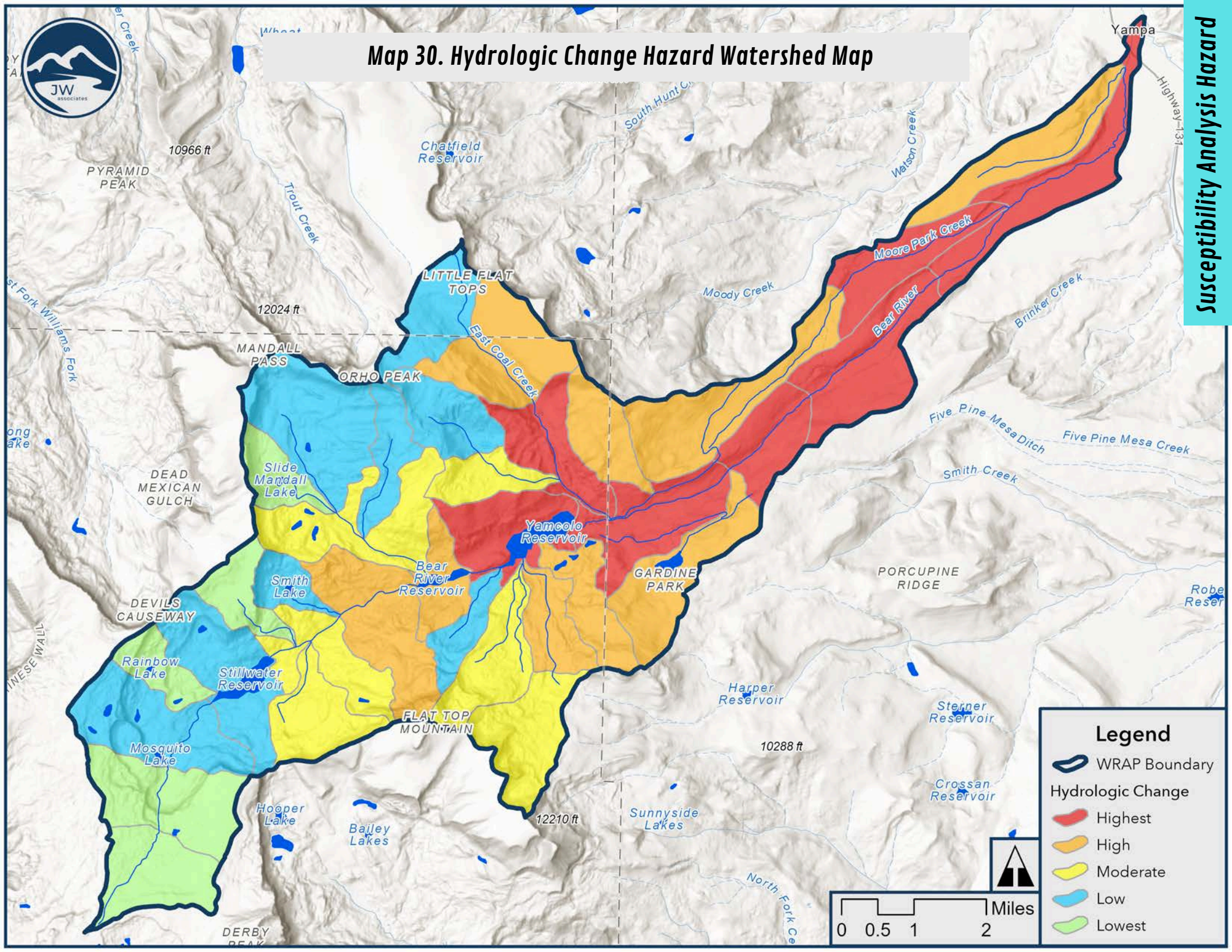
Susceptibility Analysis VAR





Map 30. Hydrologic Change Hazard Watershed Map

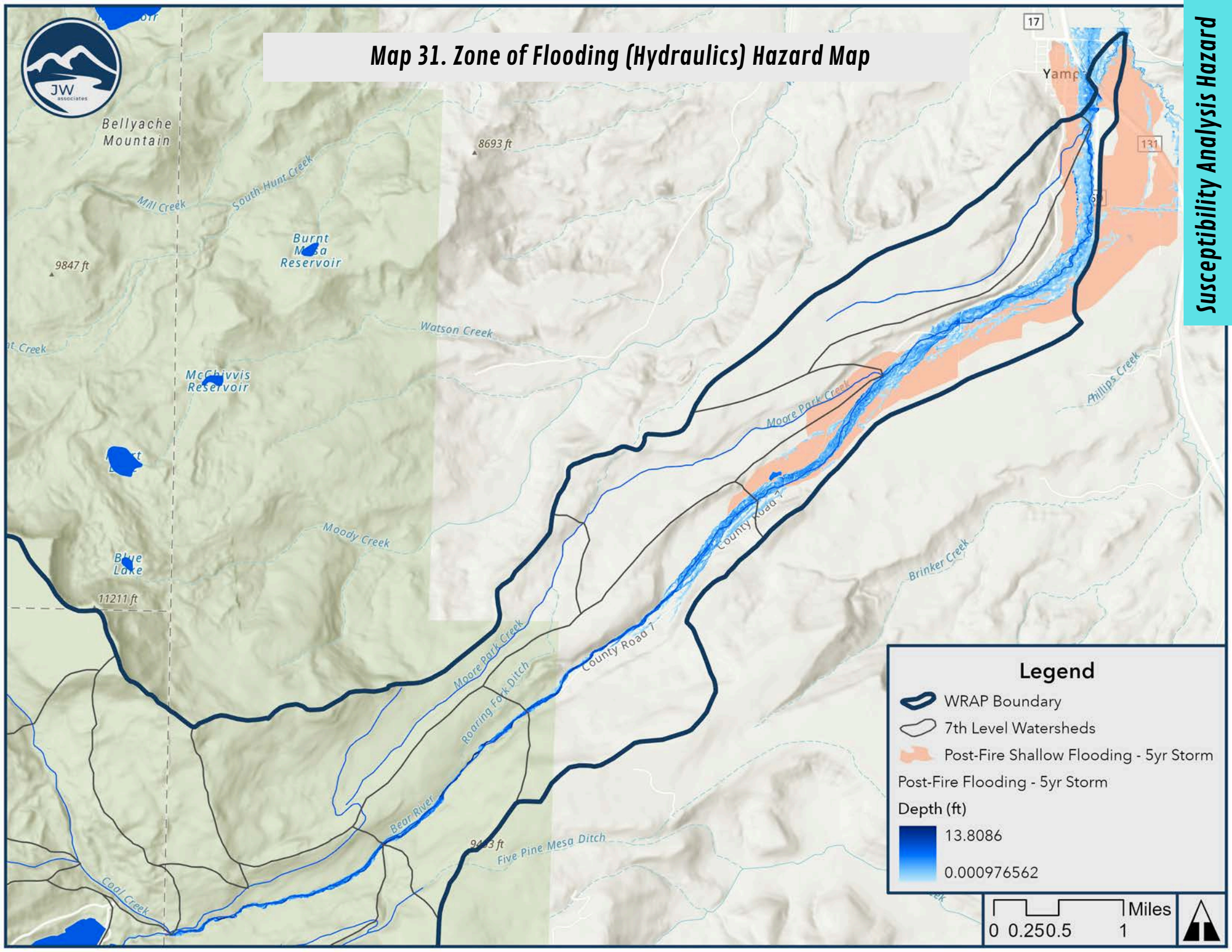
Susceptibility Analysis Hazard





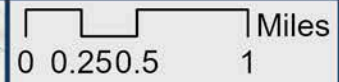
Map 31. Zone of Flooding (Hydraulics) Hazard Map

Susceptibility Analysis Hazard



Legend

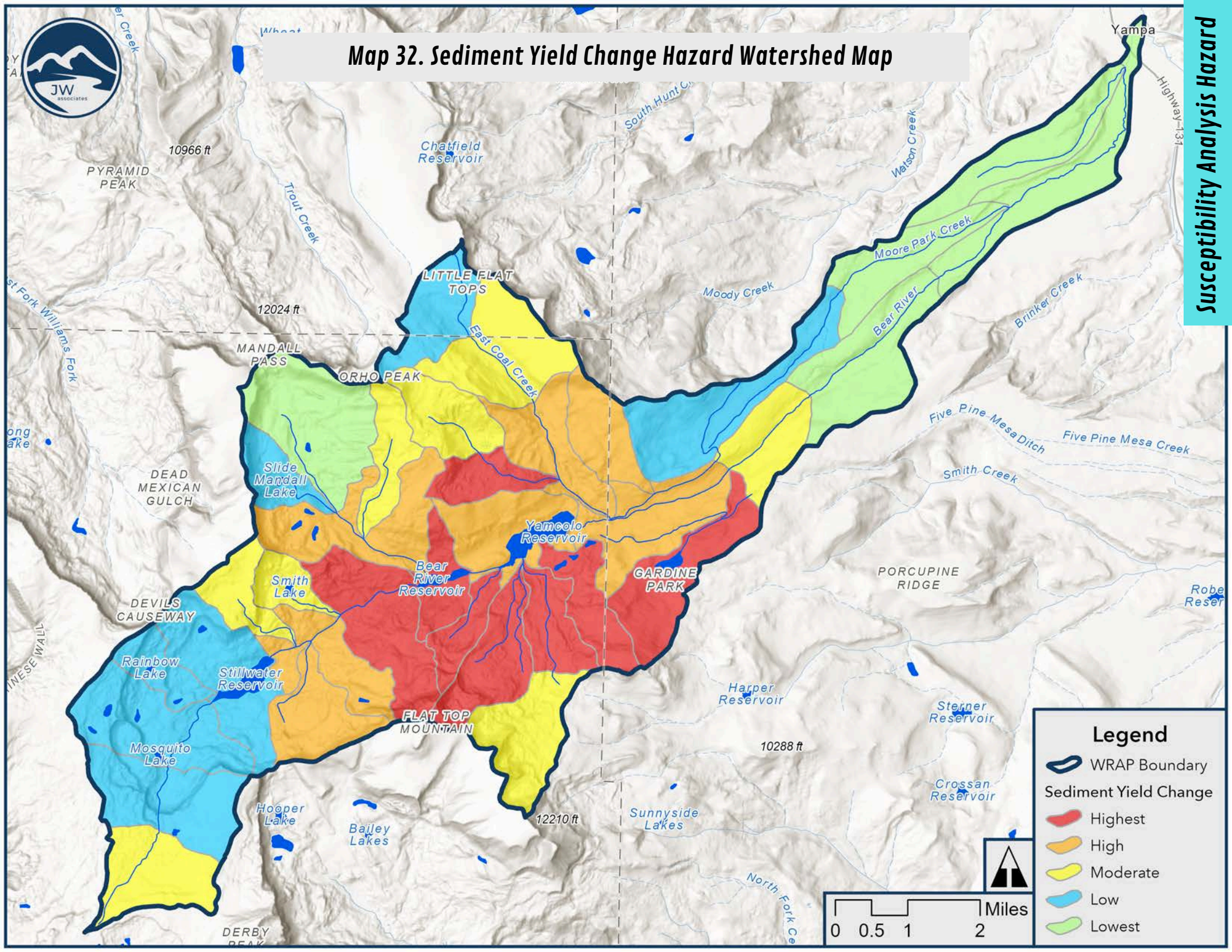
- WRAP Boundary
- 7th Level Watersheds
- Post-Fire Shallow Flooding - 5yr Storm
- Post-Fire Flooding - 5yr Storm
- Depth (ft)
 - 13.8086
 - 0.000976562





Map 32. Sediment Yield Change Hazard Watershed Map

Susceptibility Analysis Hazard



Legend

 WRAP Boundary

Sediment Yield Change

 Highest

 High

 Moderate

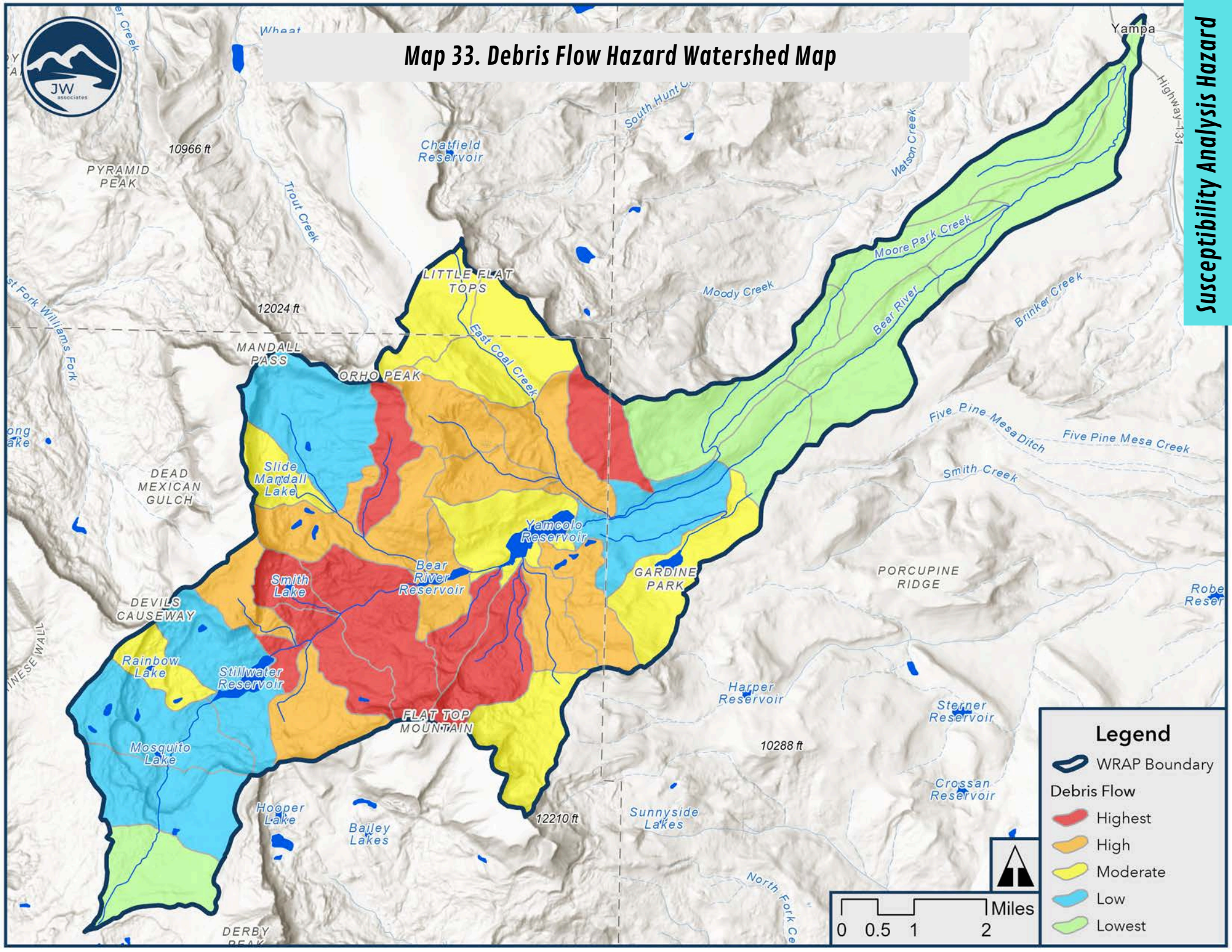
 Low

 Lowest



Map 33. Debris Flow Hazard Watershed Map

Susceptibility Analysis Hazard

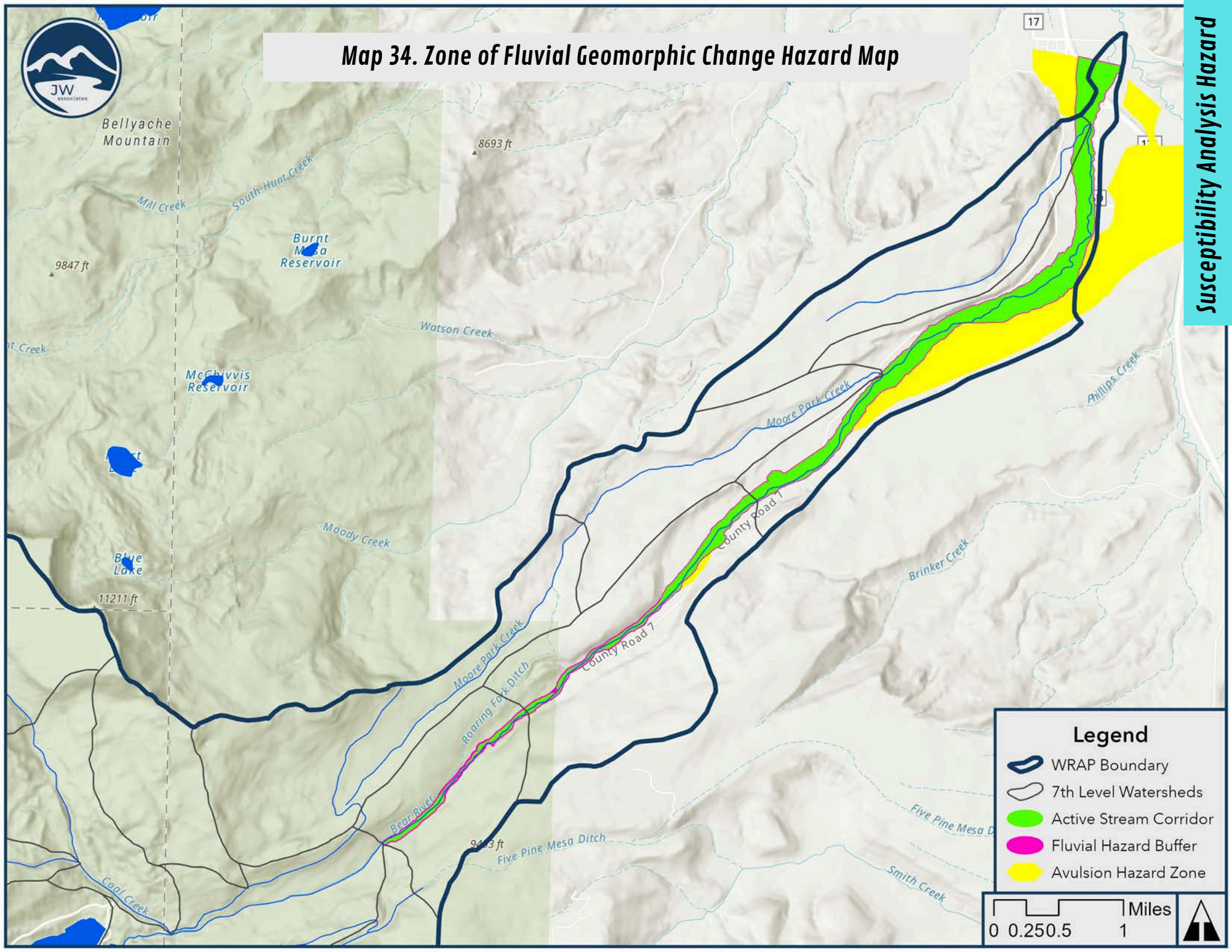


Legend

- WRAP Boundary
- Debris Flow**
 - Highest
 - High
 - Moderate
 - Low
 - Lowest



Map 34. Zone of Fluvial Geomorphic Change Hazard Map



Susceptibility Analysis Hazard

Legend

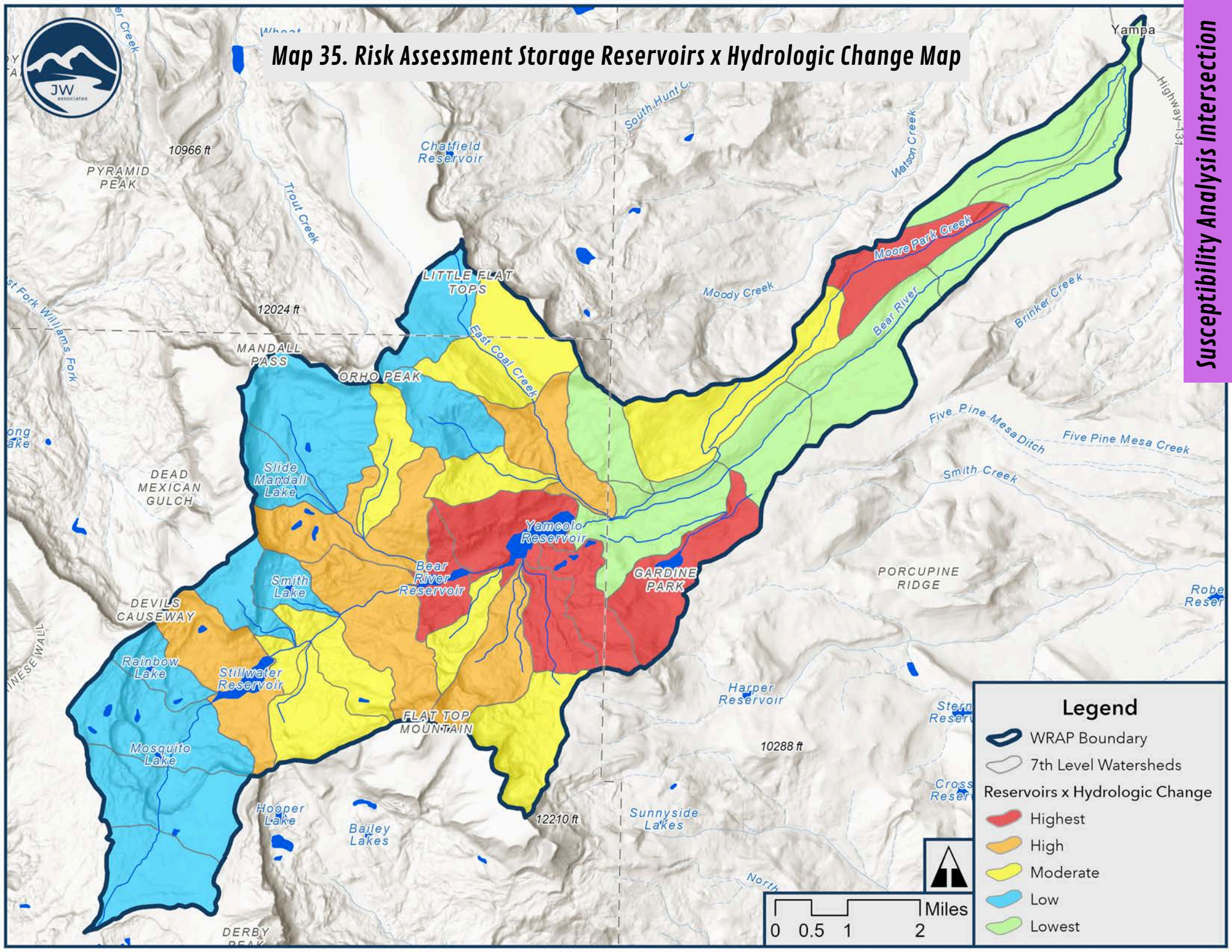
- WRAP Boundary
- 7th Level Watersheds
- Active Stream Corridor
- Fluvial Hazard Buffer
- Avulsion Hazard Zone





Map 35. Risk Assessment Storage Reservoirs x Hydrologic Change Map

Susceptibility Analysis Intersection



Legend

WRAP Boundary

7th Level Watersheds

Reservoirs x Hydrologic Change

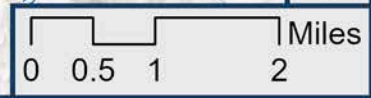
Highest

High

Moderate

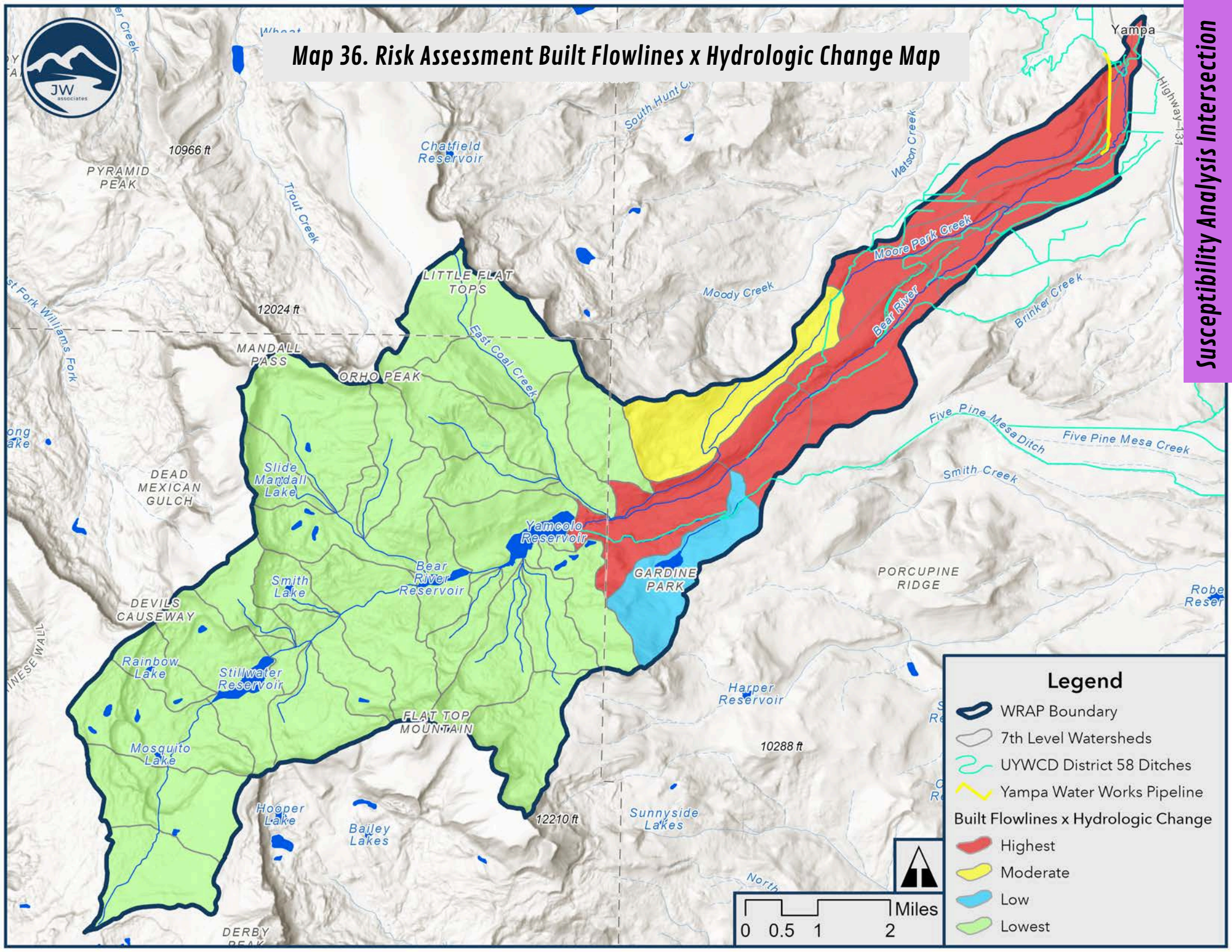
Low

Lowest





Map 36. Risk Assessment Built Flowlines x Hydrologic Change Map

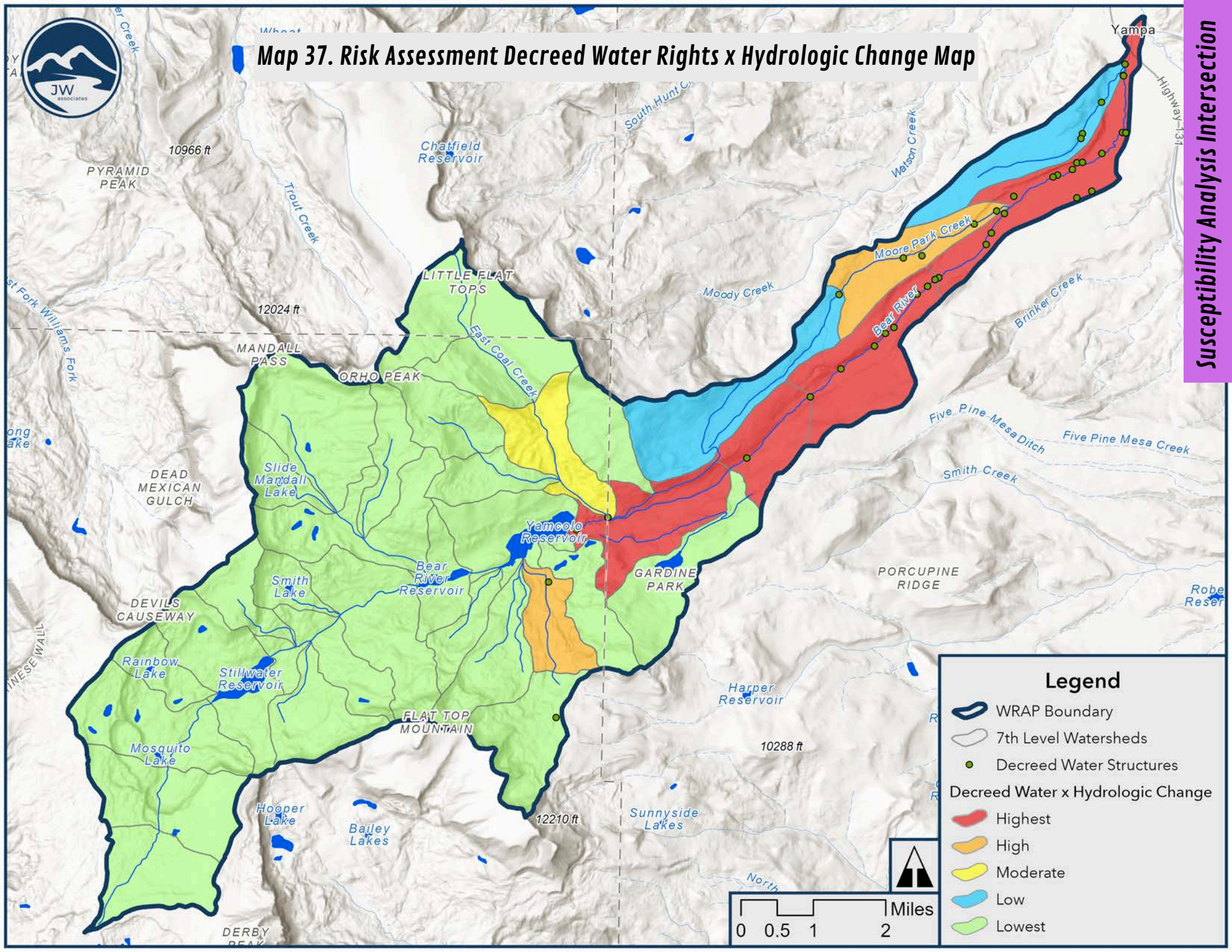


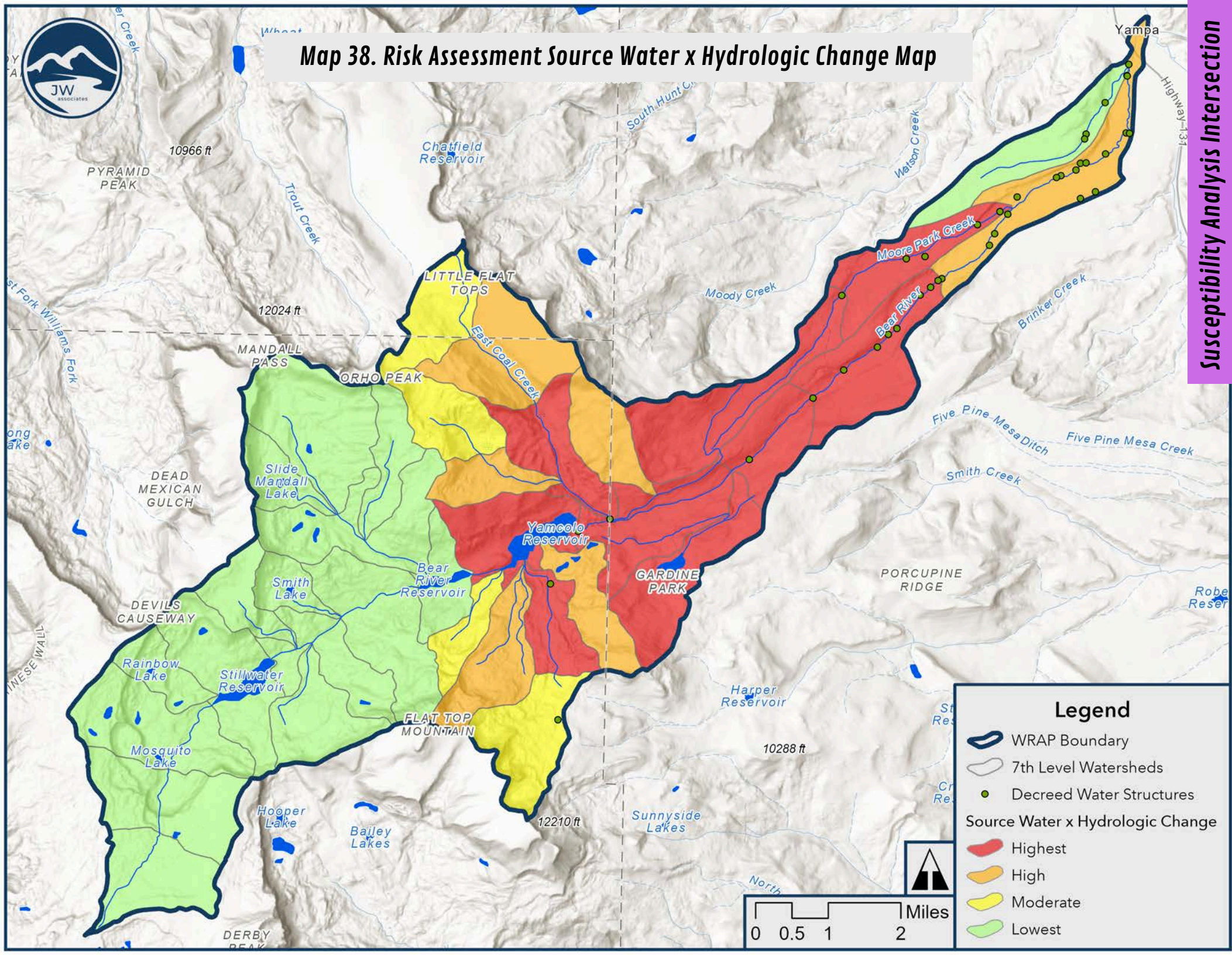
Susceptibility Analysis Intersection



Map 37. Risk Assessment Decreed Water Rights x Hydrologic Change Map

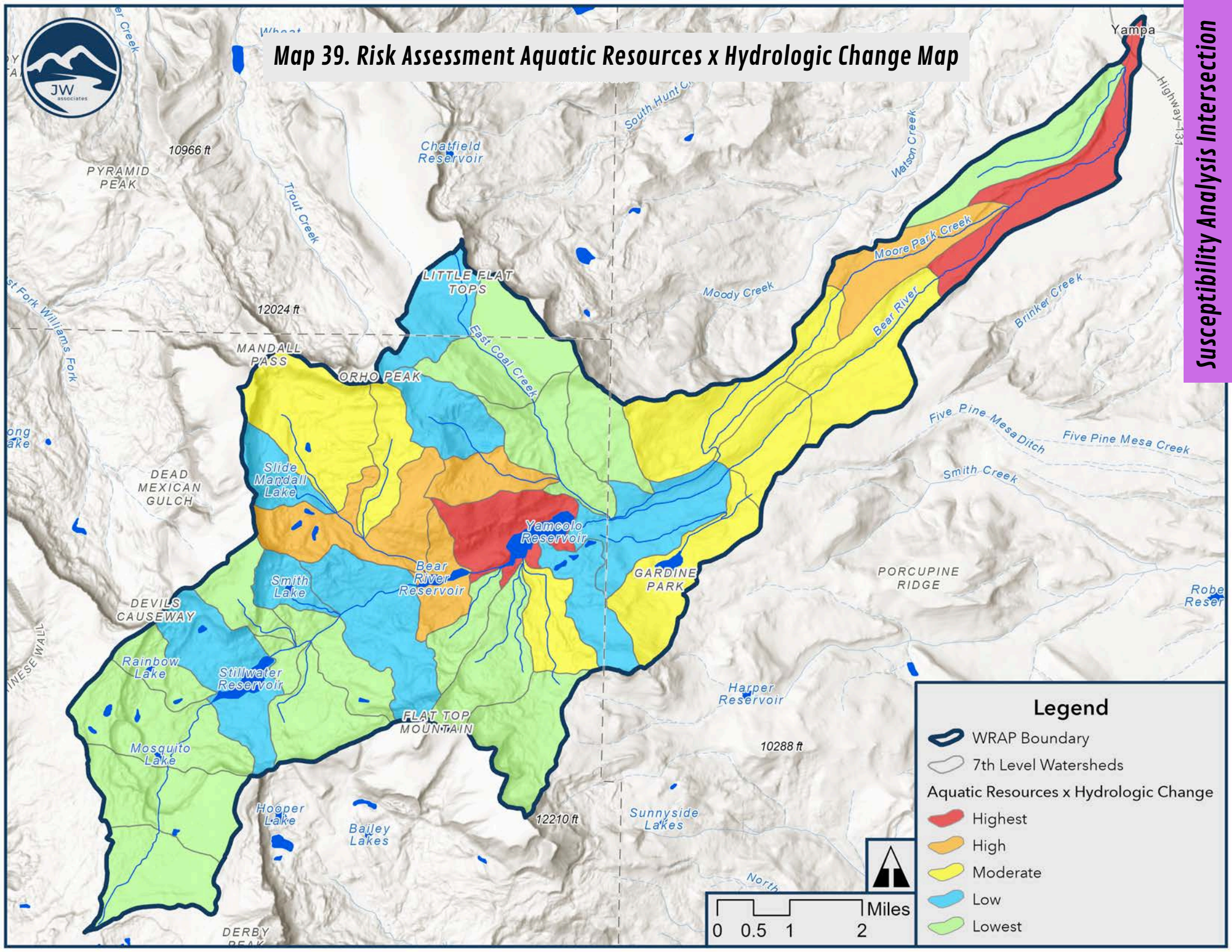
Susceptibility Analysis Intersection







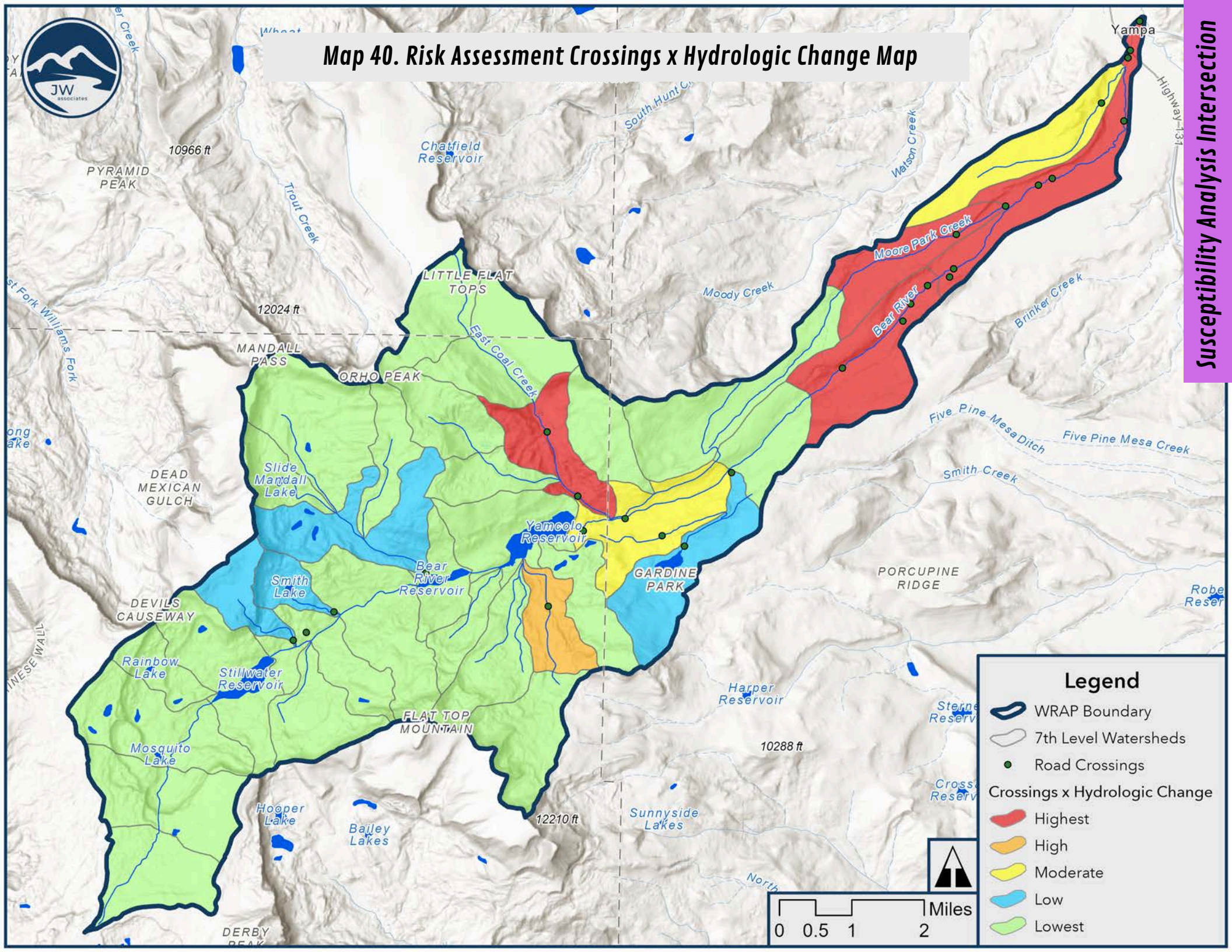
Map 39. Risk Assessment Aquatic Resources x Hydrologic Change Map





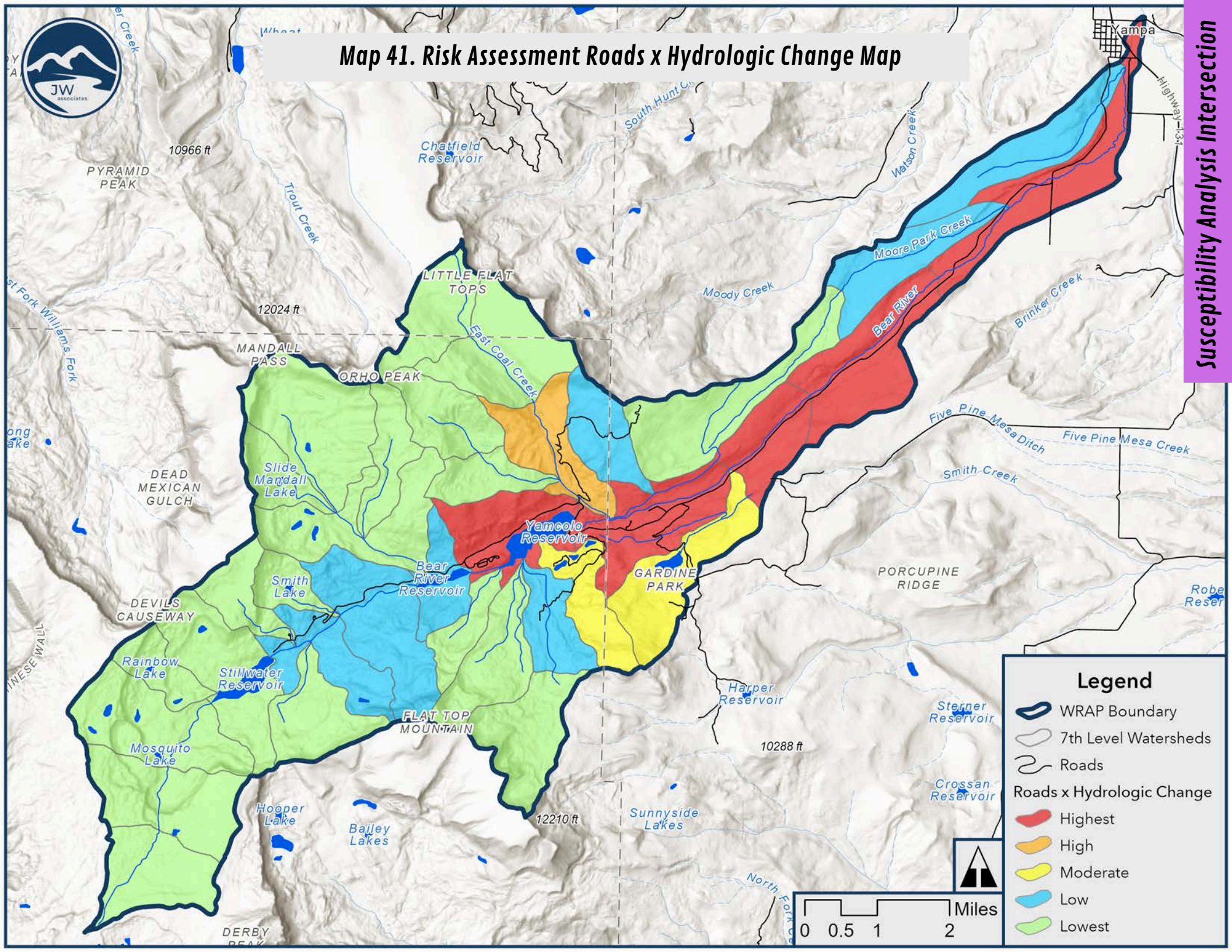
Map 40. Risk Assessment Crossings x Hydrologic Change Map

Susceptibility Analysis Intersection





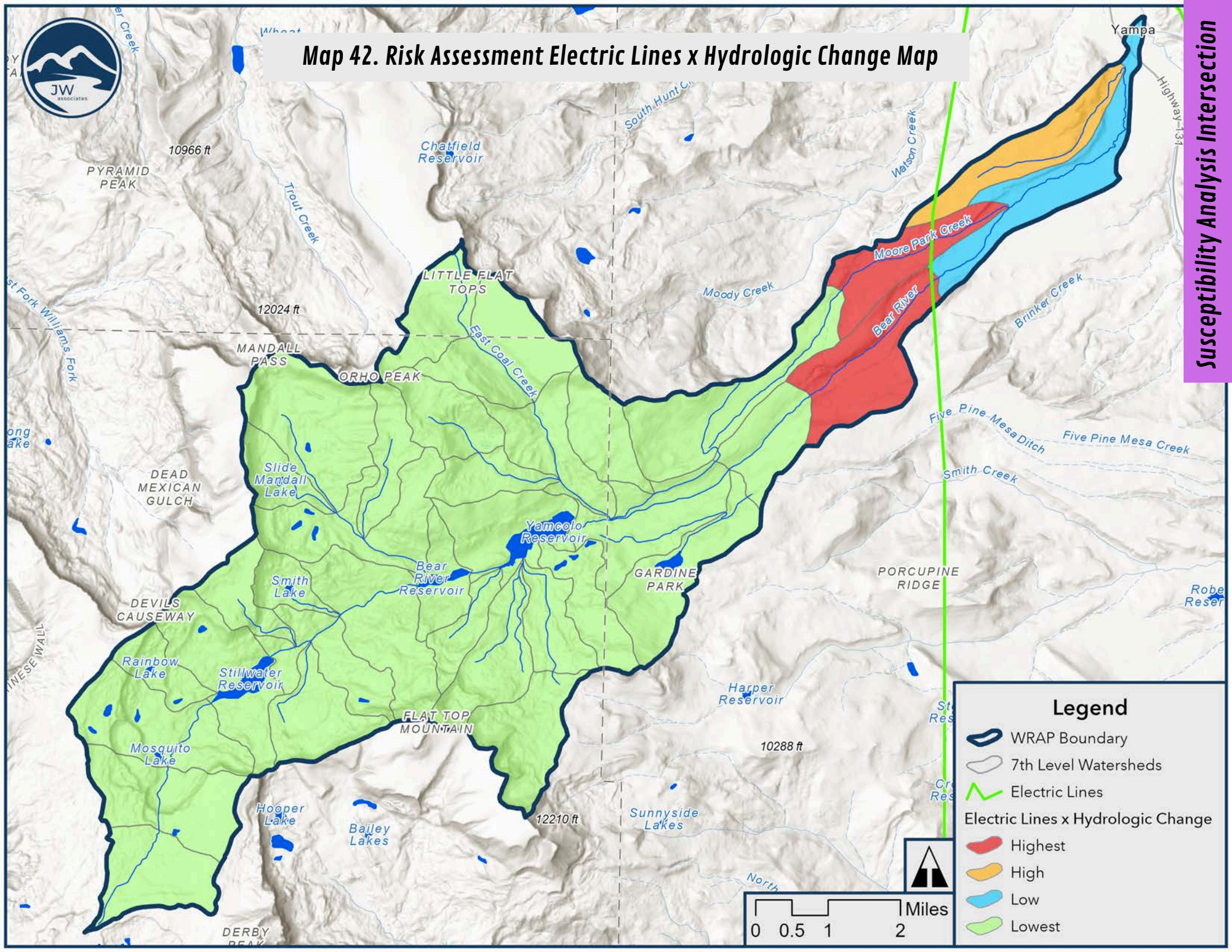
Map 41. Risk Assessment Roads x Hydrologic Change Map



Susceptibility Analysis Intersection



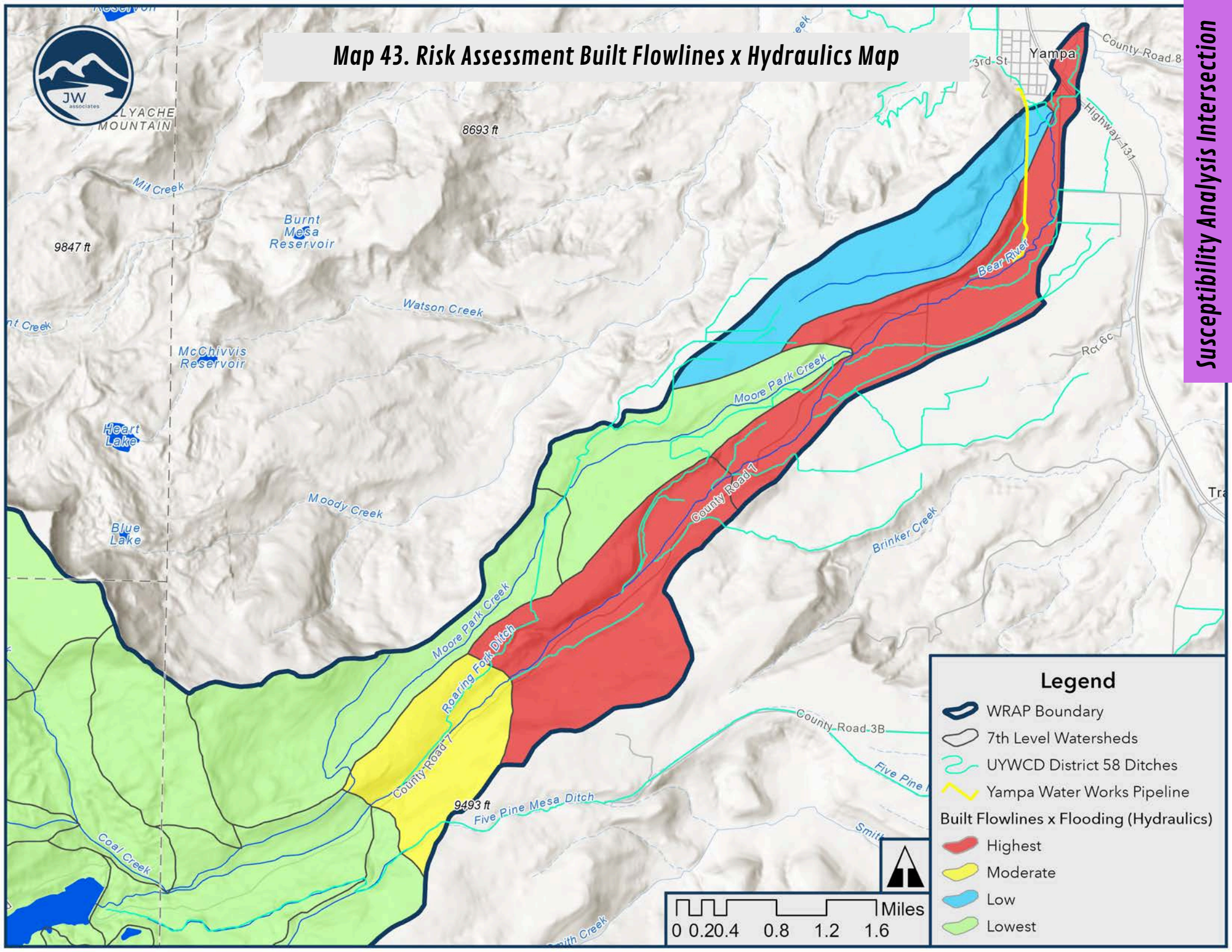
Map 42. Risk Assessment Electric Lines x Hydrologic Change Map



Susceptibility Analysis Intersection



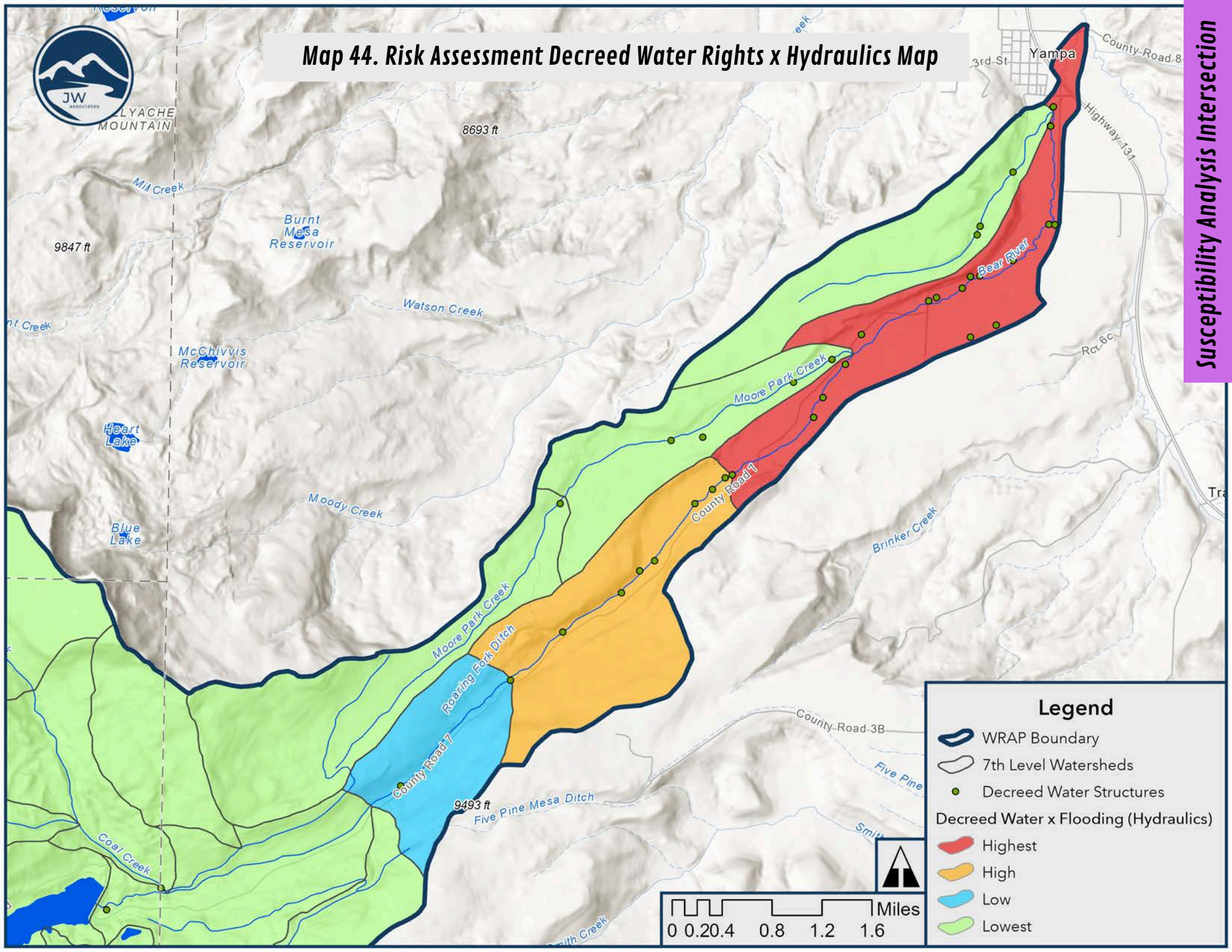
Map 43. Risk Assessment Built Flowlines x Hydraulics Map



Susceptibility Analysis Intersection



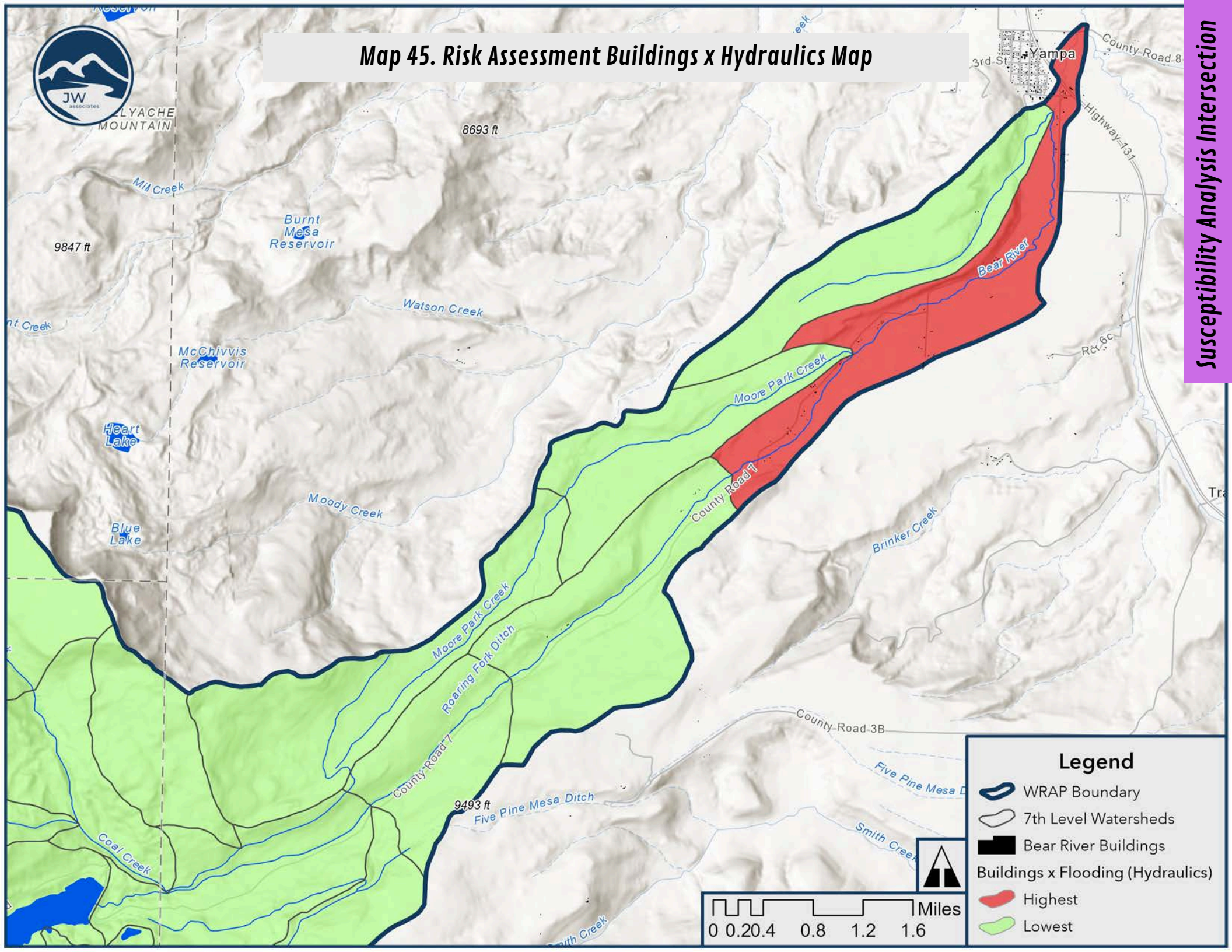
Map 44. Risk Assessment Decreed Water Rights x Hydraulics Map



Susceptibility Analysis Intersection



Map 45. Risk Assessment Buildings x Hydraulics Map



Legend

WRAP Boundary

7th Level Watersheds

Bear River Buildings

Buildings x Flooding (Hydraulics)

Highest

Lowest

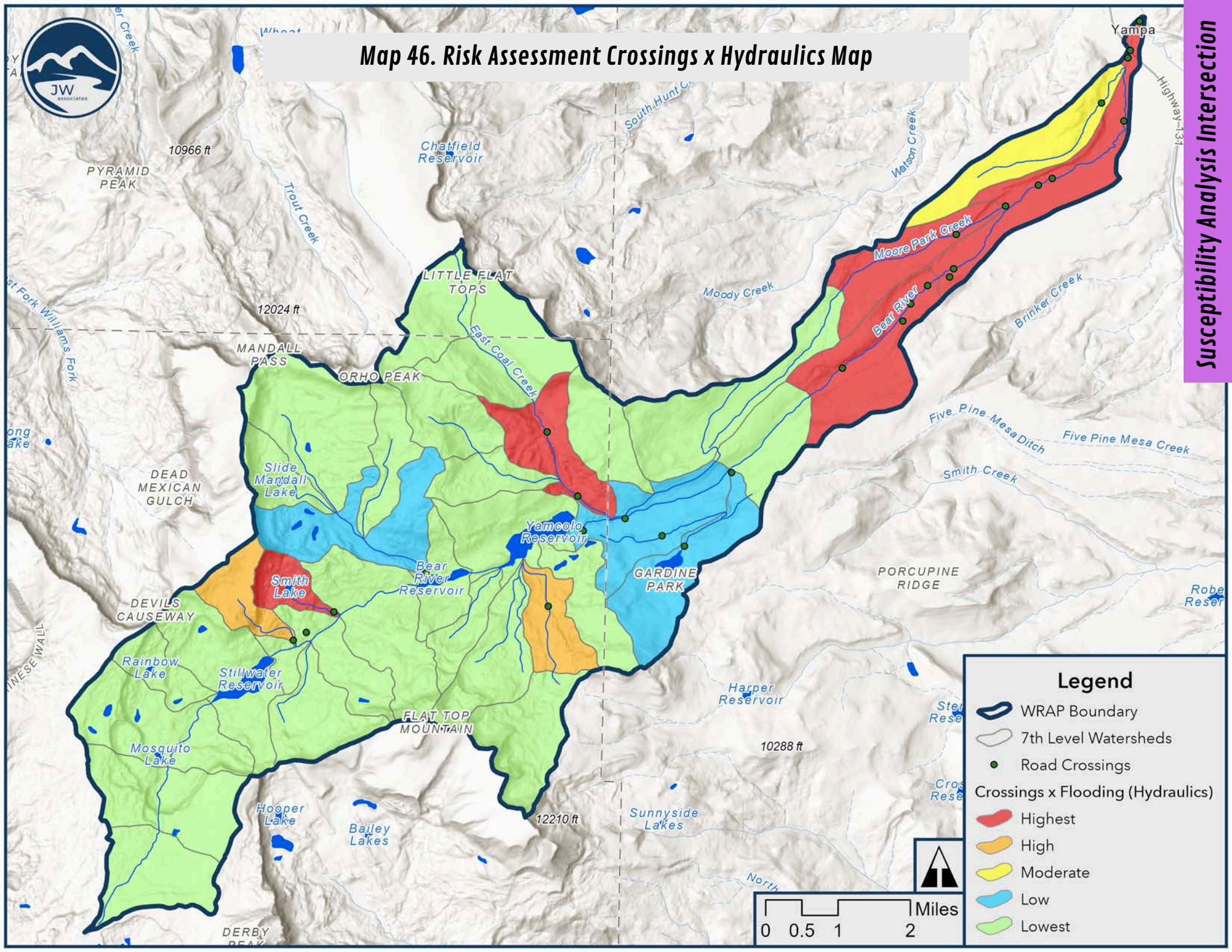


Susceptibility Analysis Intersection



Map 46. Risk Assessment Crossings x Hydraulics Map

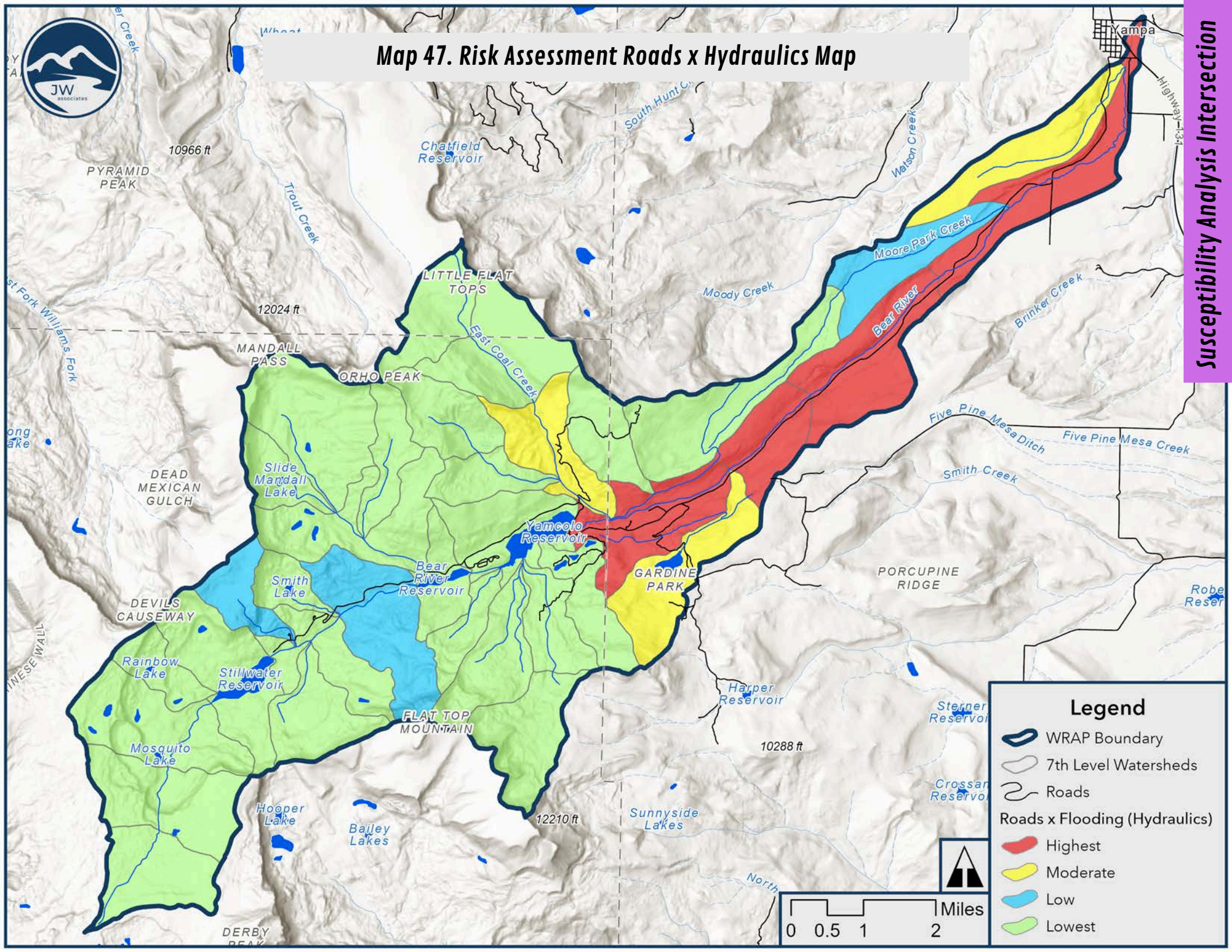
Susceptibility Analysis Intersection





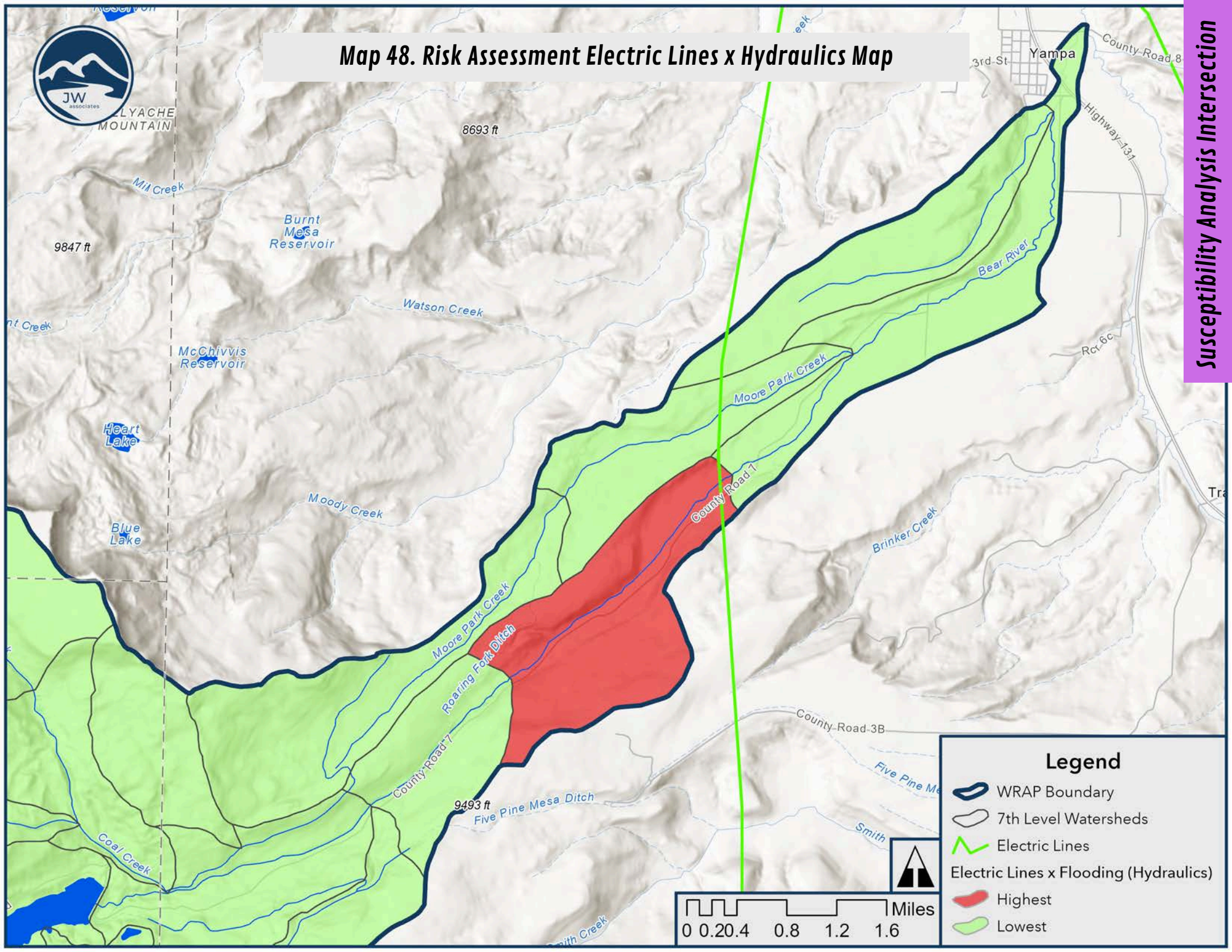
Map 47. Risk Assessment Roads x Hydraulics Map

Susceptibility Analysis Intersection





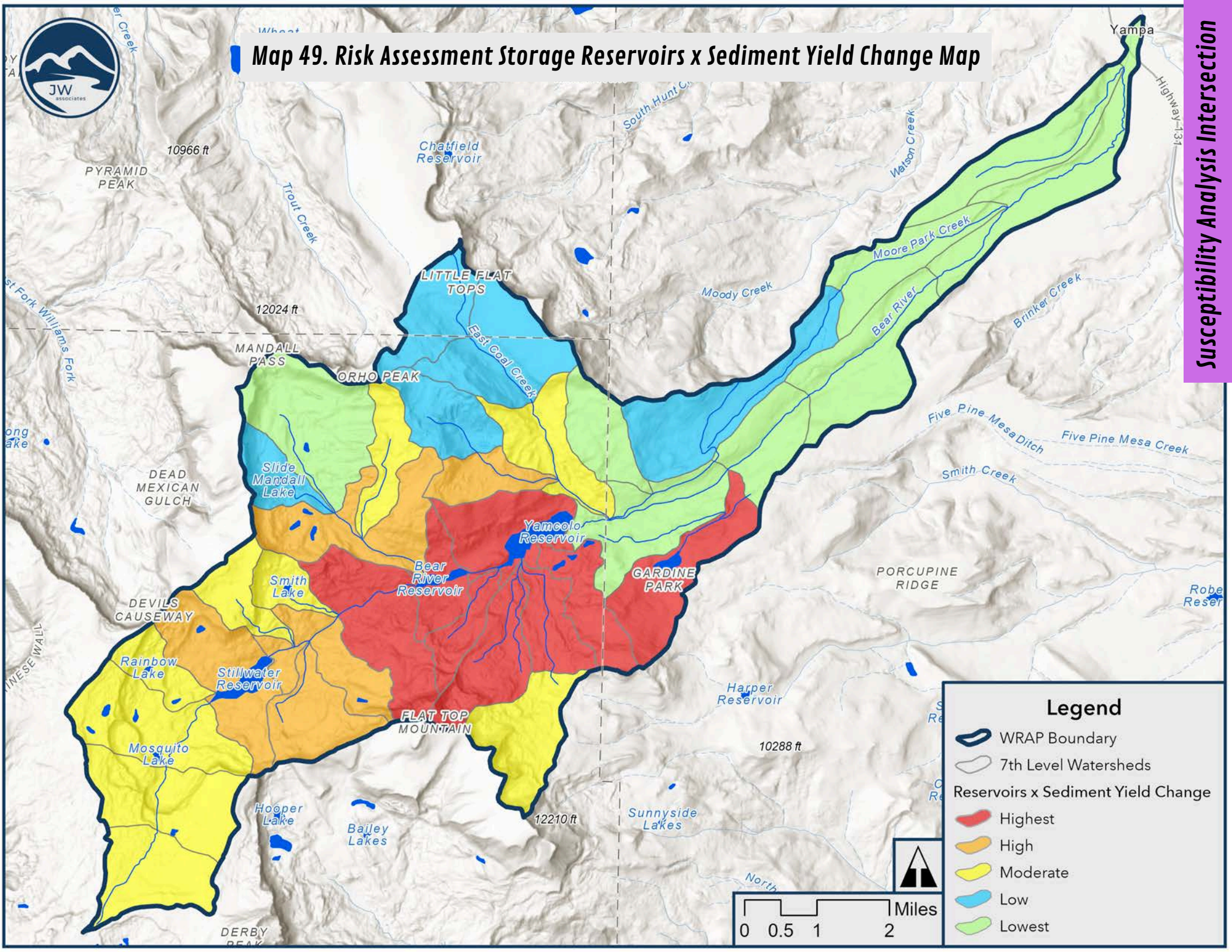
Map 48. Risk Assessment Electric Lines x Hydraulics Map



Susceptibility Analysis Intersection



Map 49. Risk Assessment Storage Reservoirs x Sediment Yield Change Map



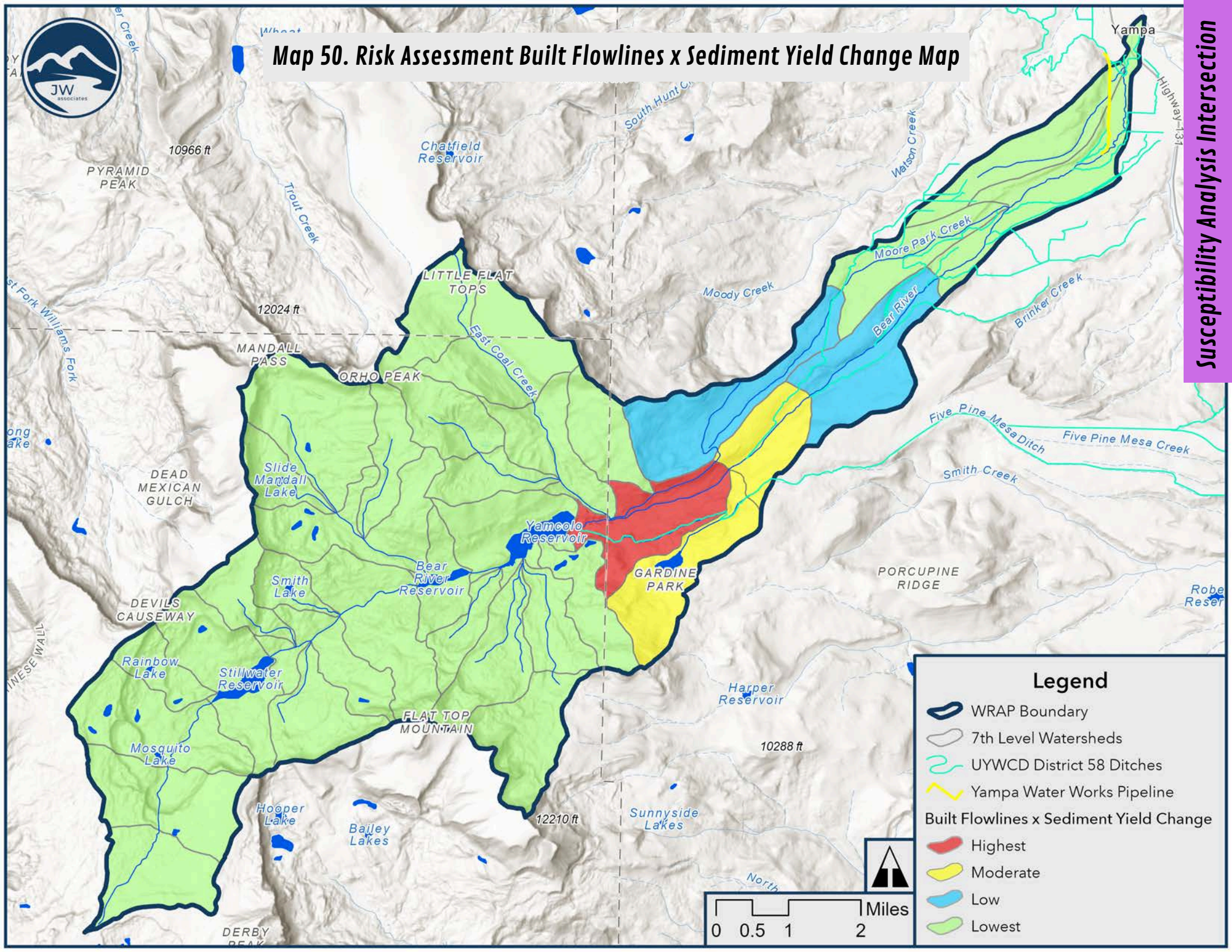
Susceptibility Analysis Intersection

Legend

- WRAP Boundary
- 7th Level Watersheds
- Reservoirs x Sediment Yield Change**
 - Highest
 - High
 - Moderate
 - Low
 - Lowest

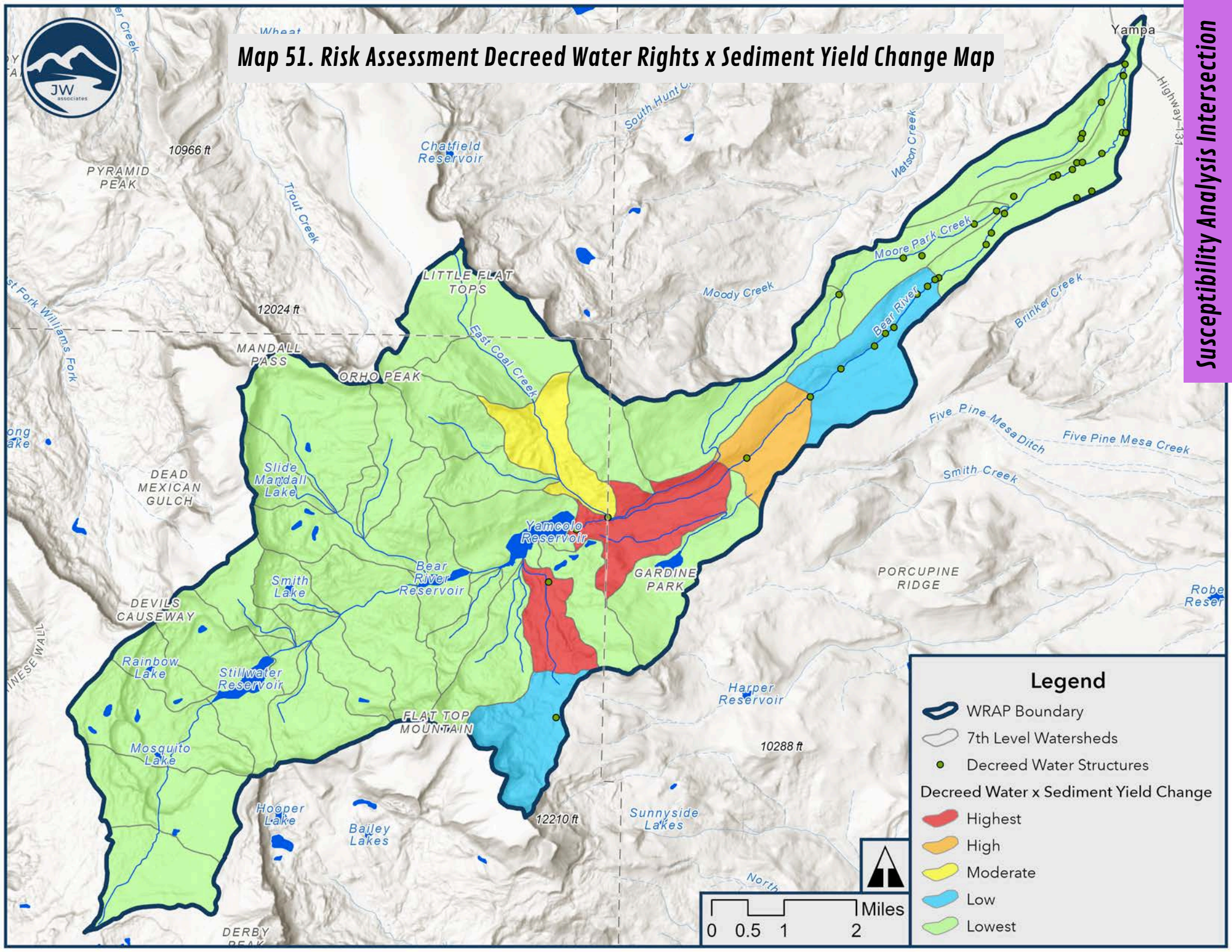


Map 50. Risk Assessment Built Flowlines x Sediment Yield Change Map



Susceptibility Analysis Intersection

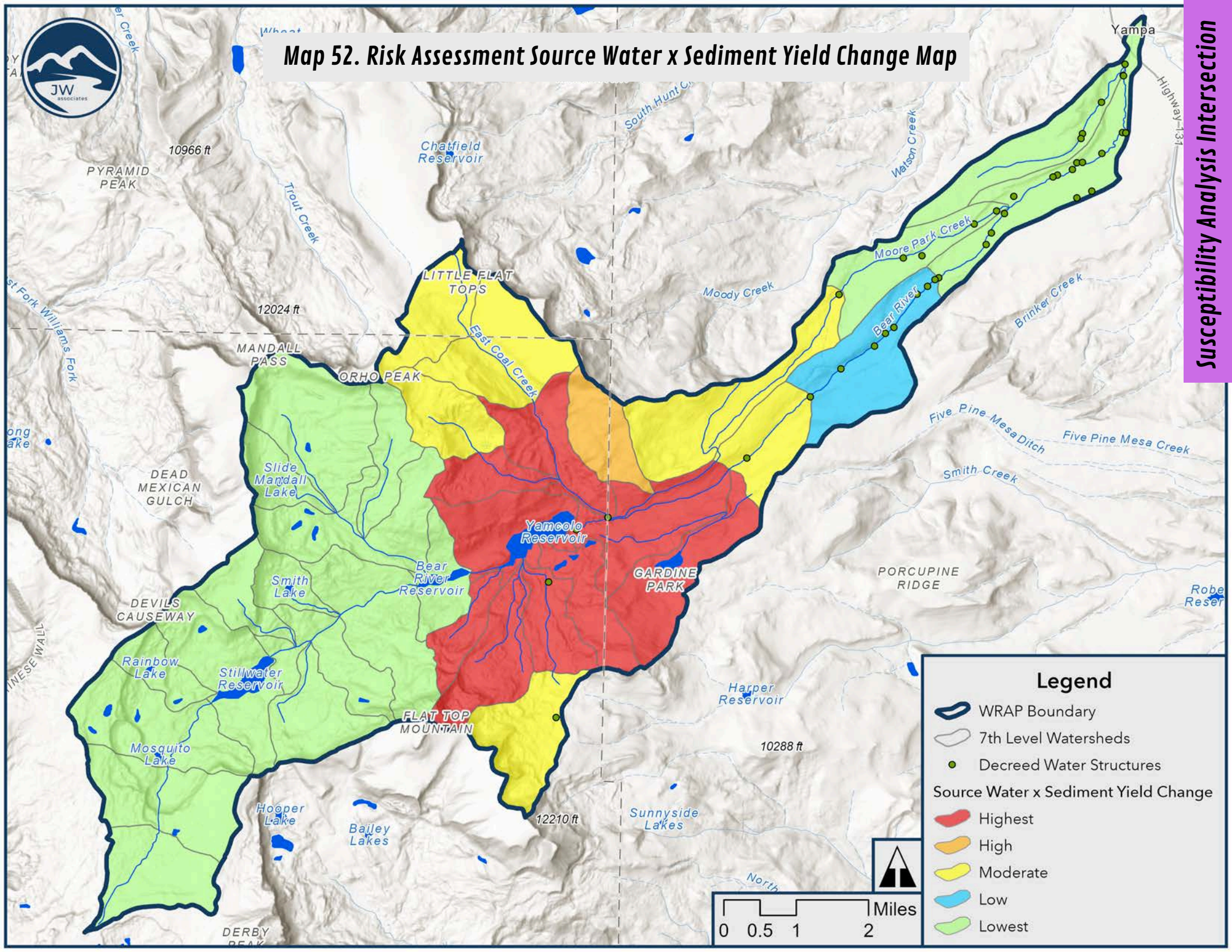
Map 51. Risk Assessment Decreed Water Rights x Sediment Yield Change Map



Susceptibility Analysis Intersection



Map 52. Risk Assessment Source Water x Sediment Yield Change Map

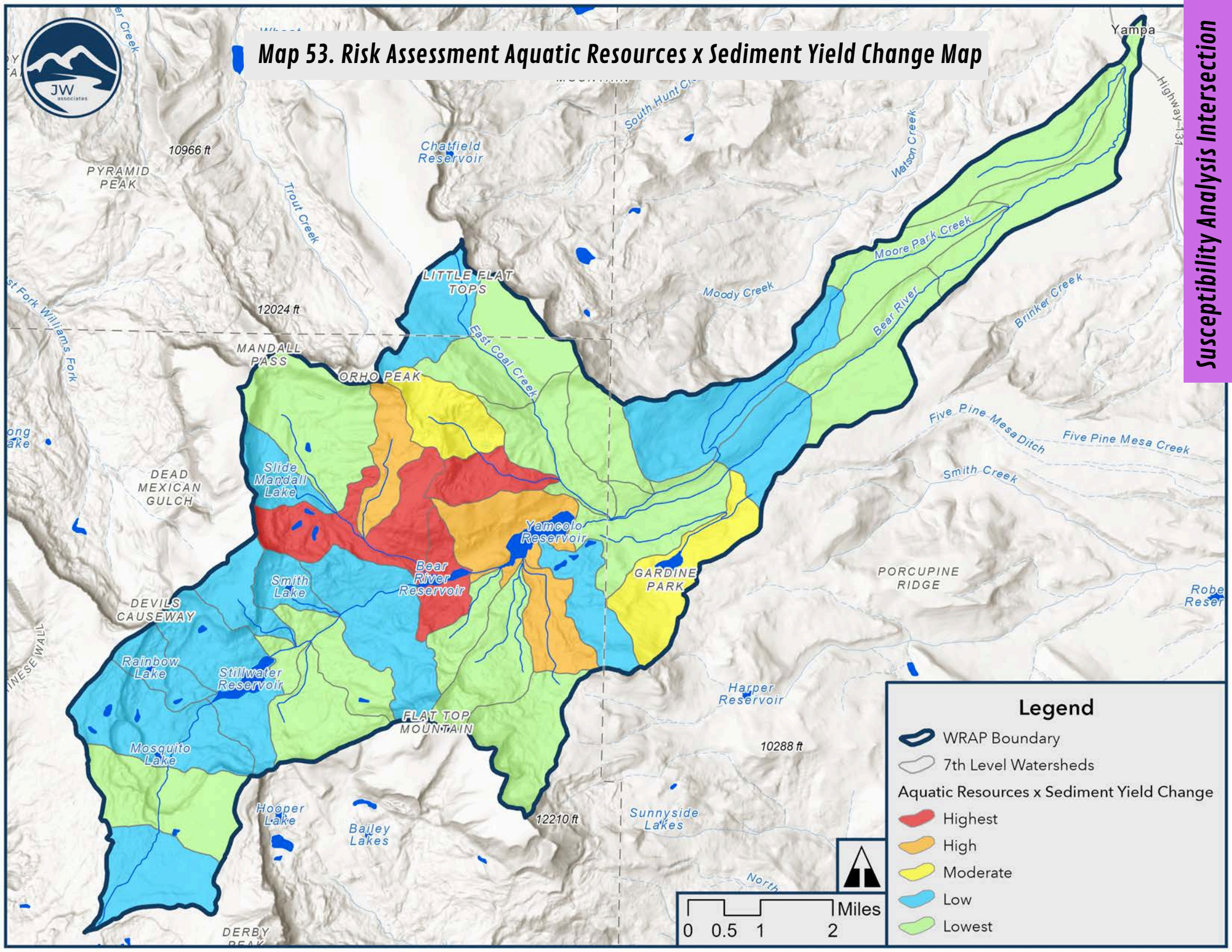


Susceptibility Analysis Intersection



Map 53. Risk Assessment Aquatic Resources x Sediment Yield Change Map

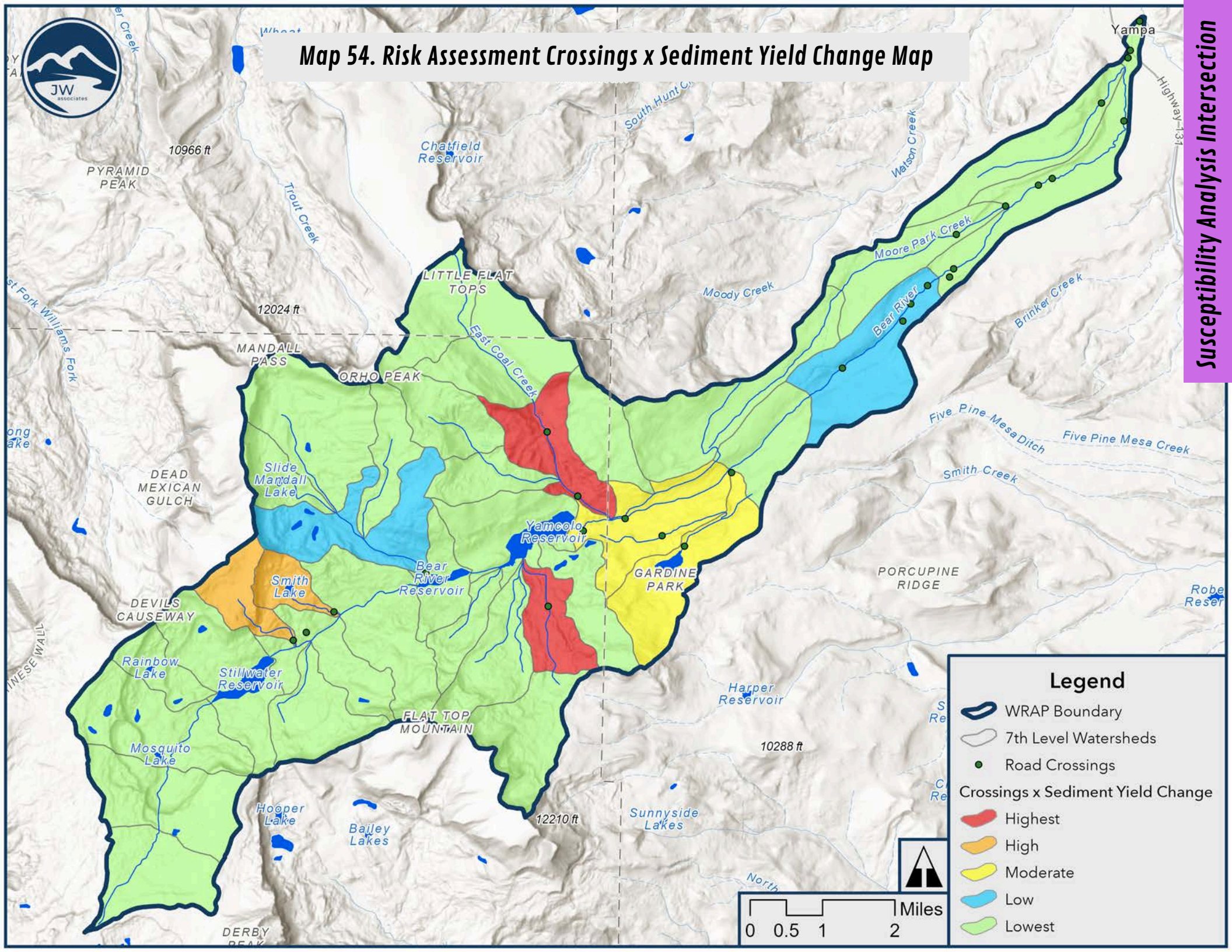
Susceptibility Analysis Intersection





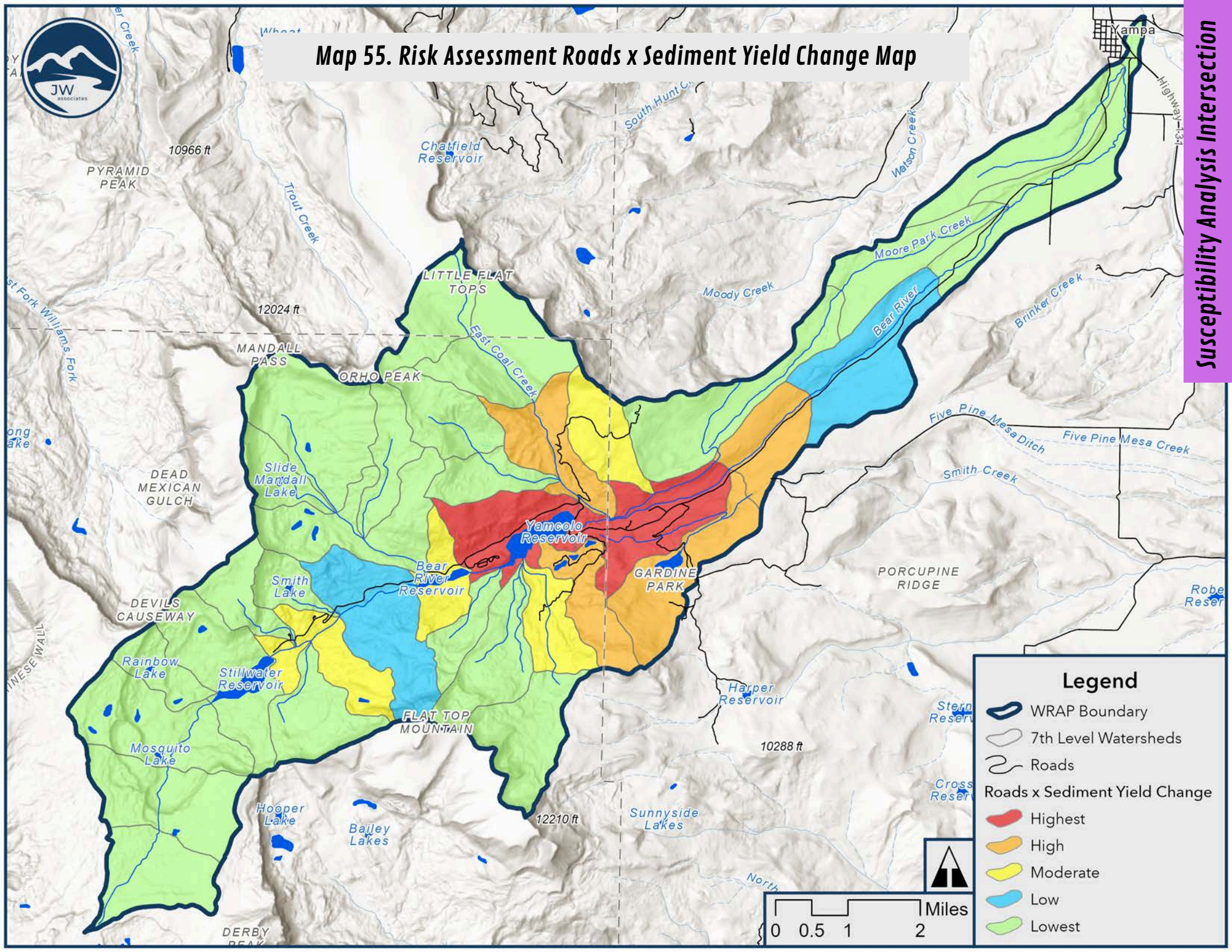
Map 54. Risk Assessment Crossings x Sediment Yield Change Map

Susceptibility Analysis Intersection





Map 55. Risk Assessment Roads x Sediment Yield Change Map



Susceptibility Analysis Intersection

Legend

WRAP Boundary

7th Level Watersheds

Roads

Roads x Sediment Yield Change

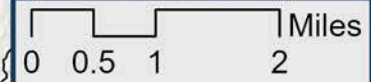
Highest

High

Moderate

Low

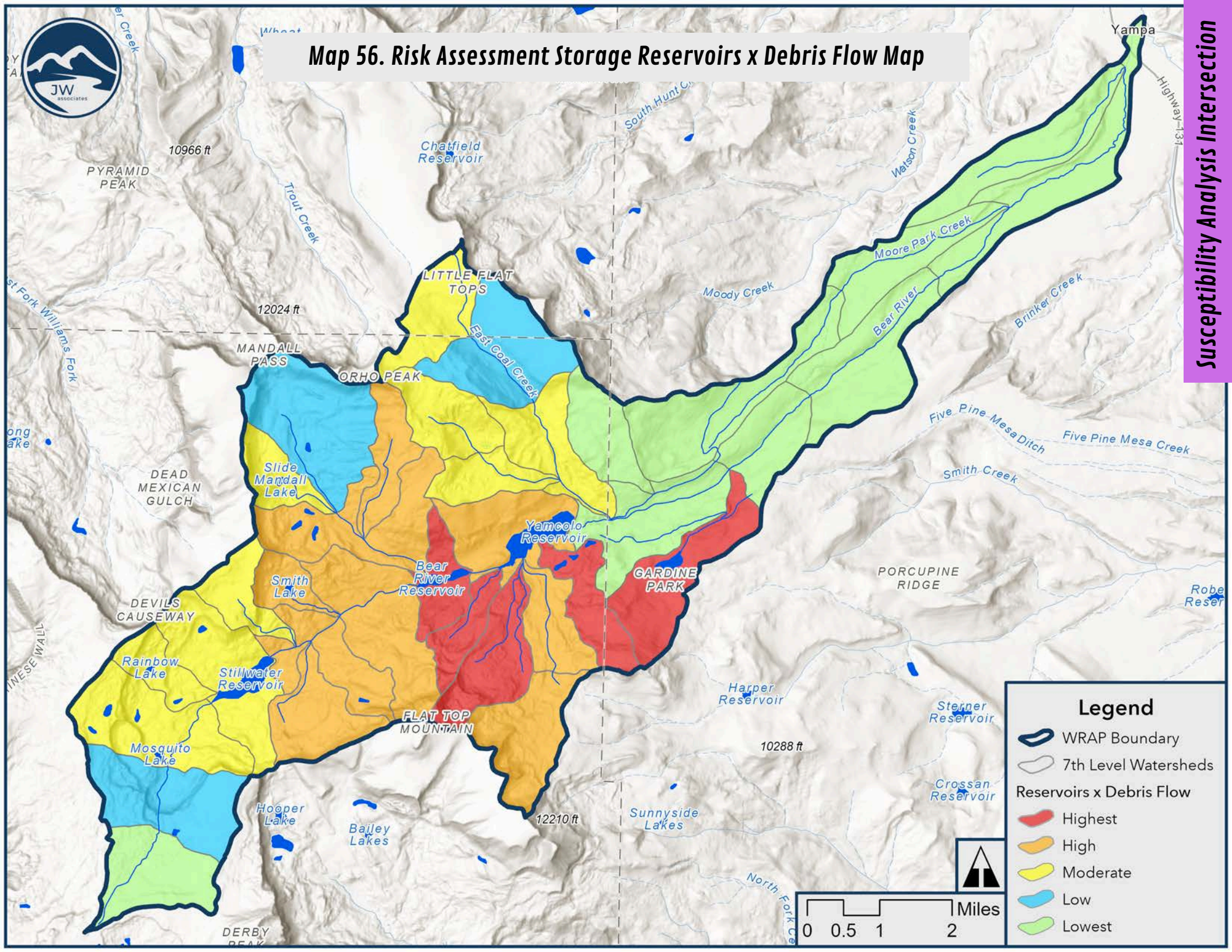
Lowest





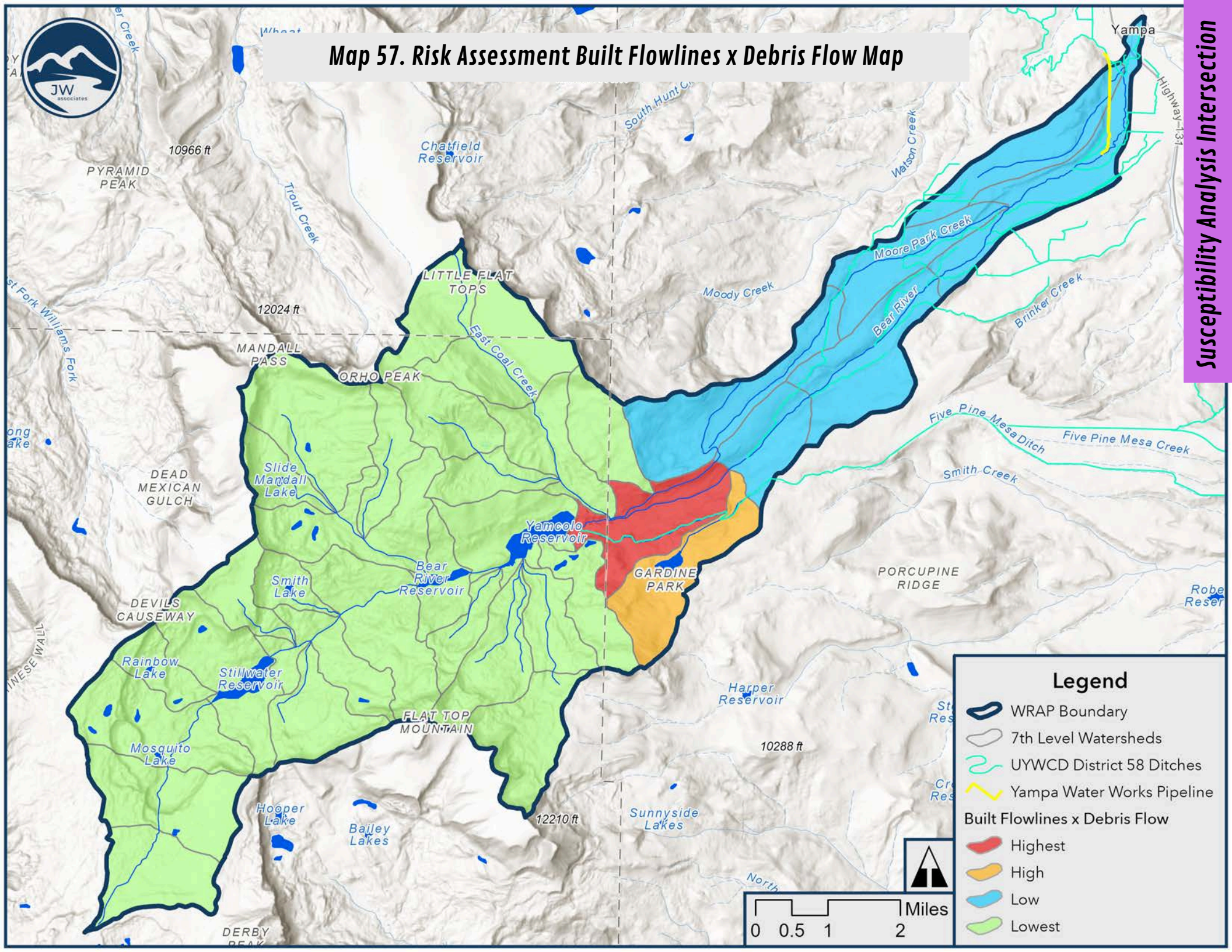
Map 56. Risk Assessment Storage Reservoirs x Debris Flow Map

Susceptibility Analysis Intersection





Map 57. Risk Assessment Built Flowlines x Debris Flow Map

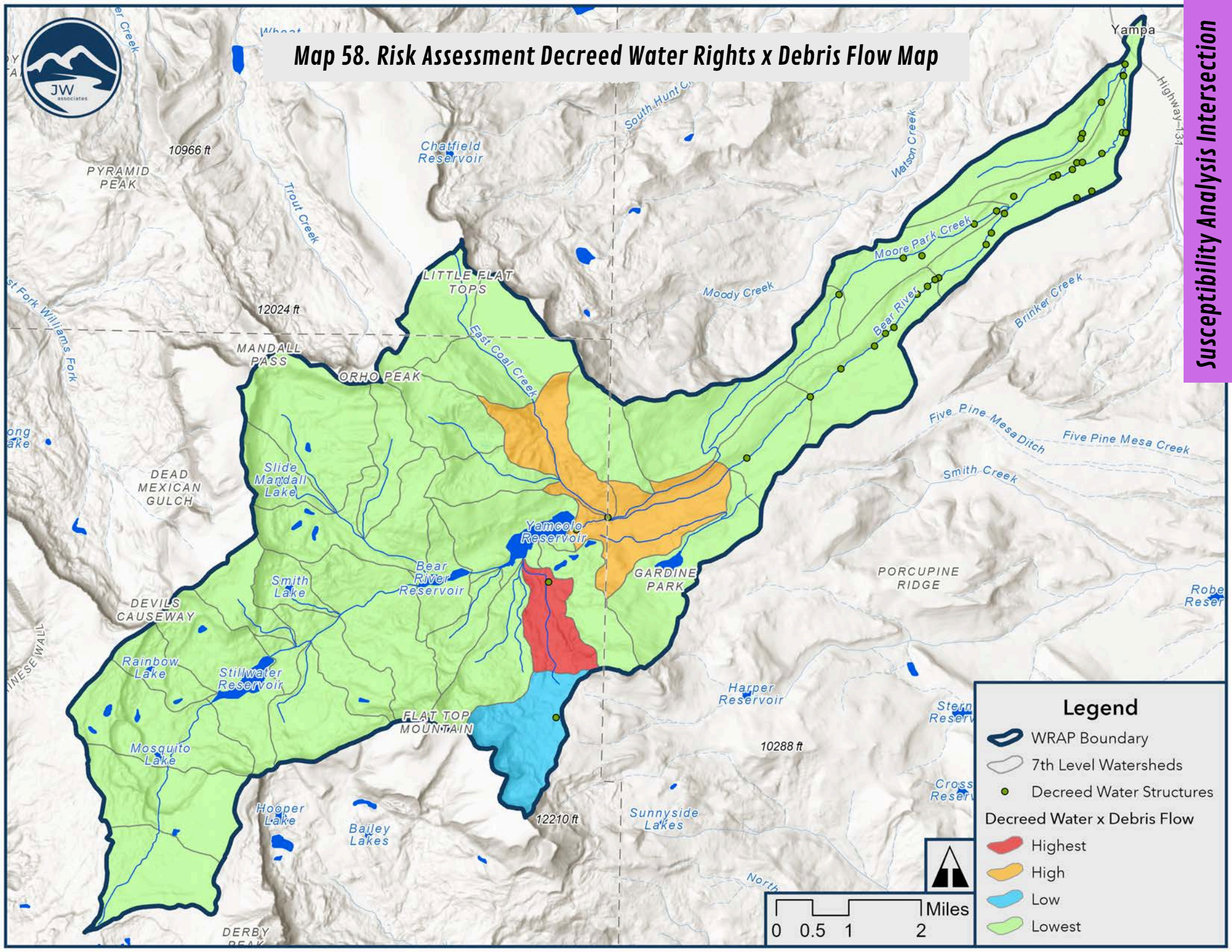


Susceptibility Analysis Intersection



Map 58. Risk Assessment Decreed Water Rights x Debris Flow Map

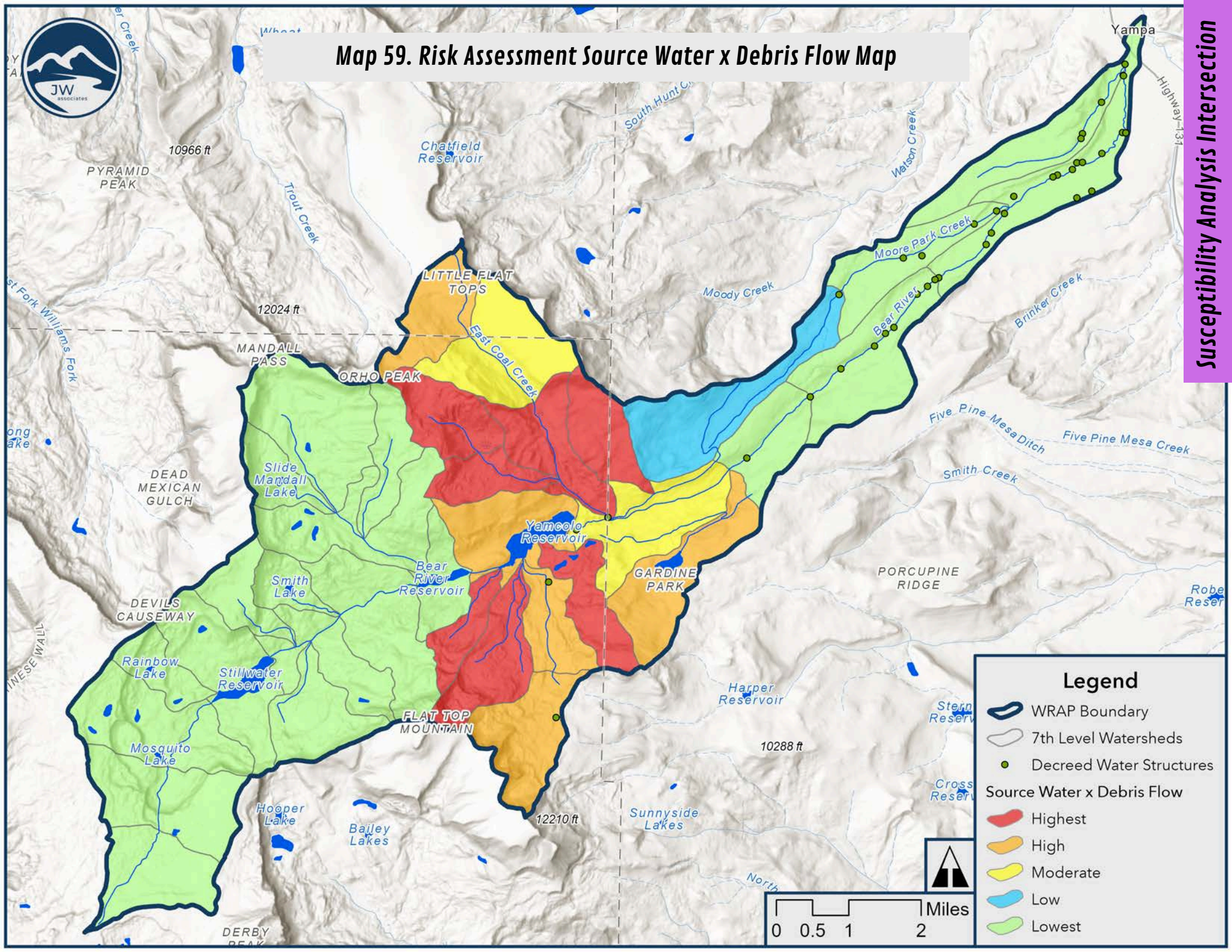
Susceptibility Analysis Intersection





Map 59. Risk Assessment Source Water x Debris Flow Map

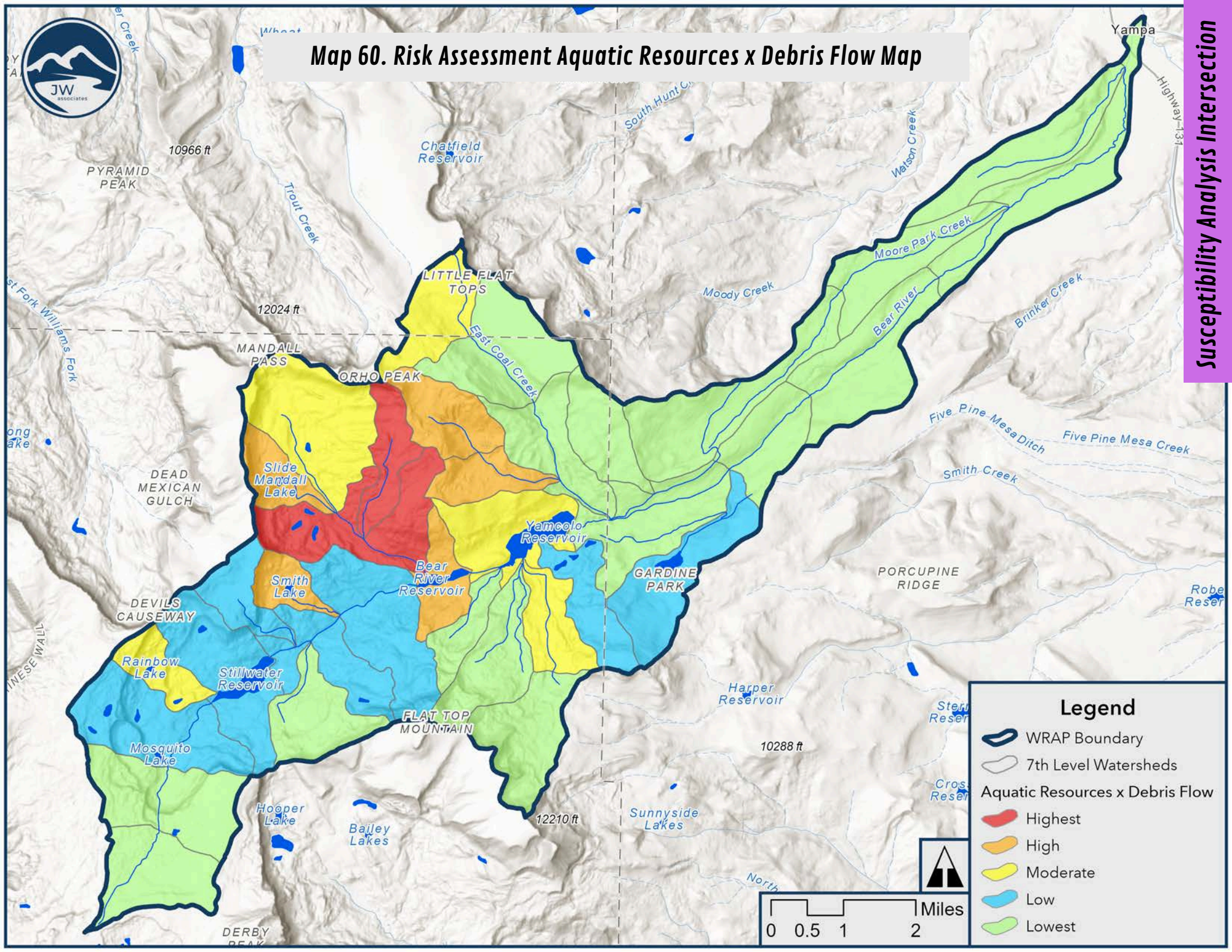
Susceptibility Analysis Intersection





Map 60. Risk Assessment Aquatic Resources x Debris Flow Map

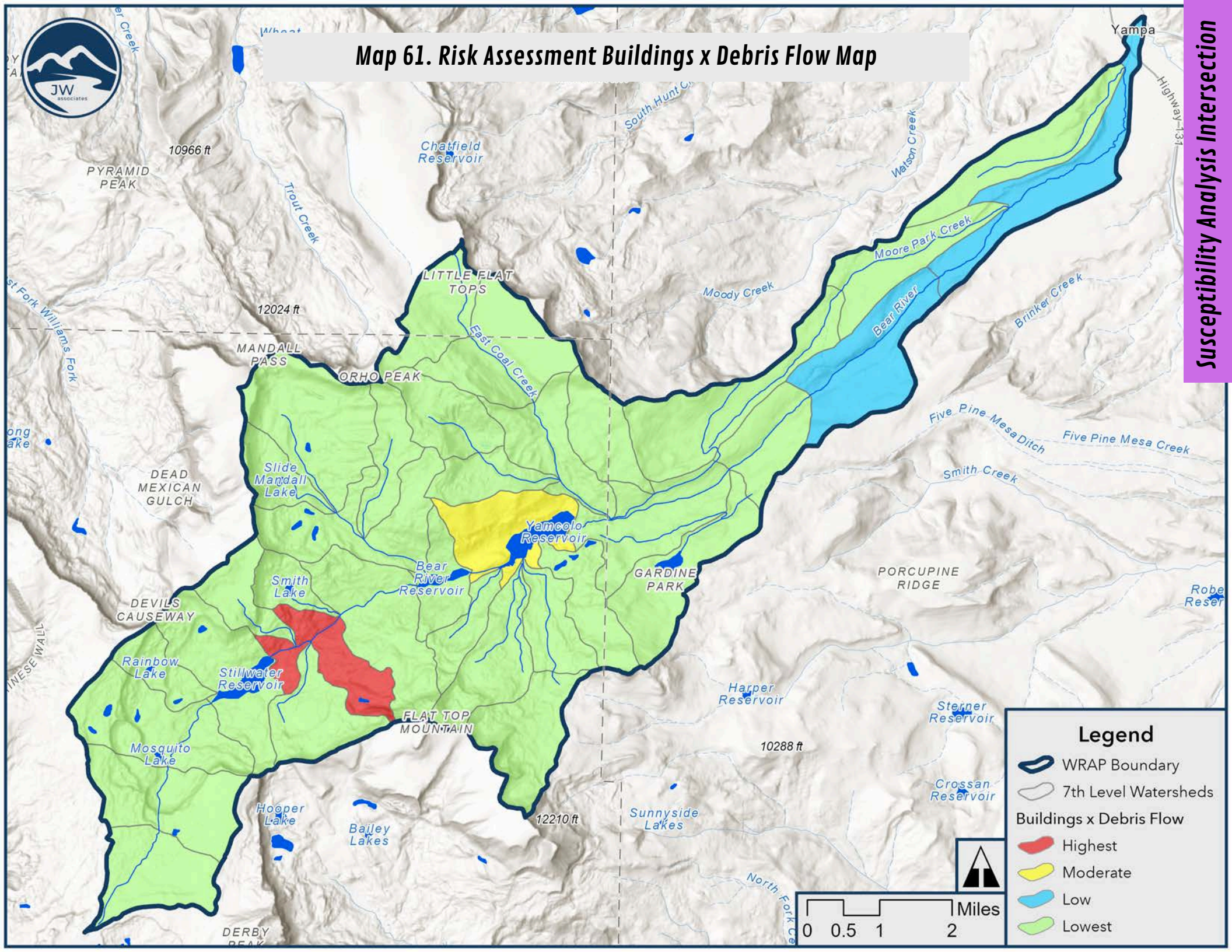
Susceptibility Analysis Intersection





Map 61. Risk Assessment Buildings x Debris Flow Map

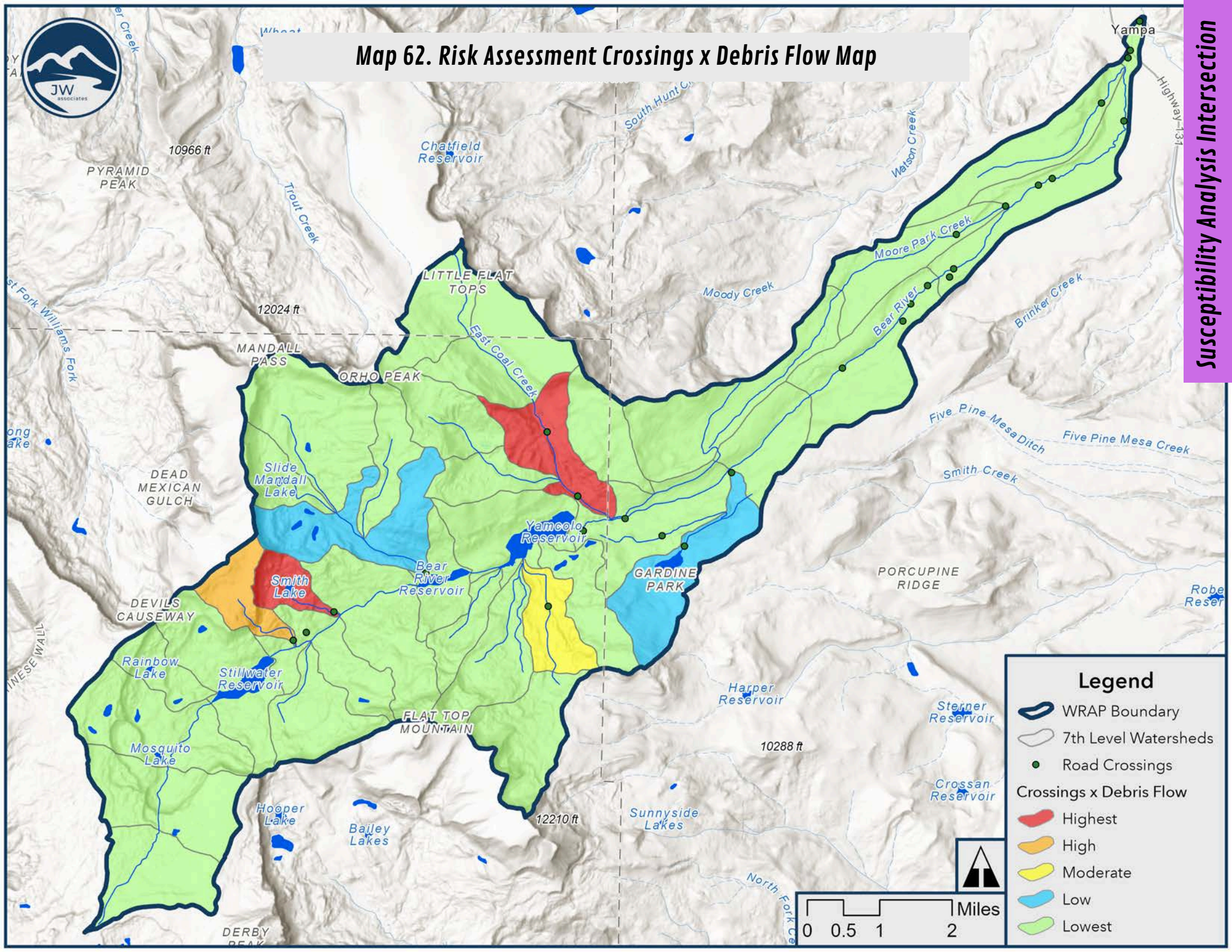
Susceptibility Analysis Intersection





Map 62. Risk Assessment Crossings x Debris Flow Map

Susceptibility Analysis Intersection



Legend

WRAP Boundary

7th Level Watersheds

Road Crossings

Crossings x Debris Flow

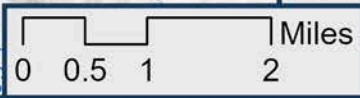
Highest

High

Moderate

Low

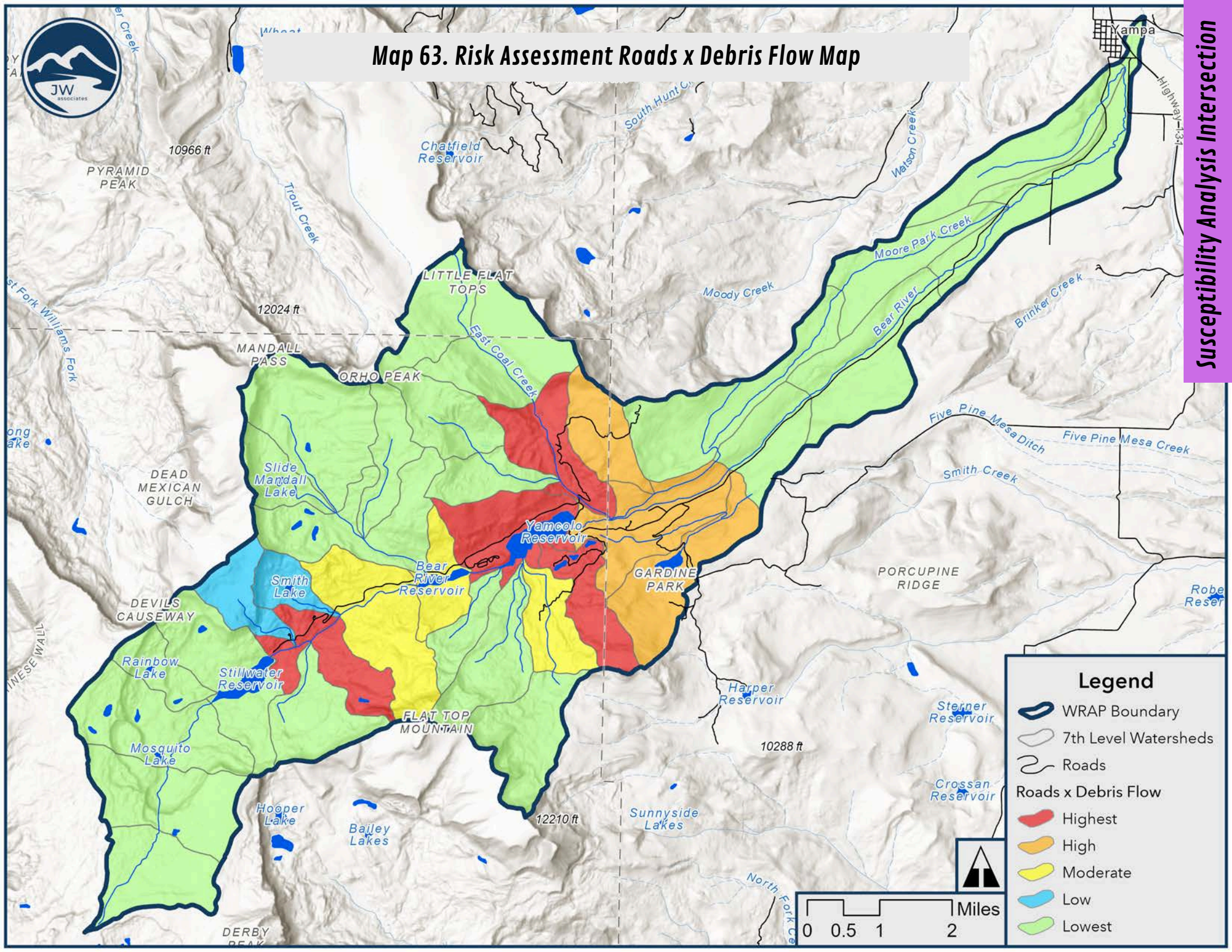
Lowest





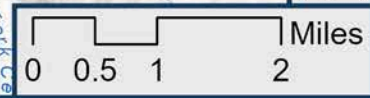
Map 63. Risk Assessment Roads x Debris Flow Map

Susceptibility Analysis Intersection



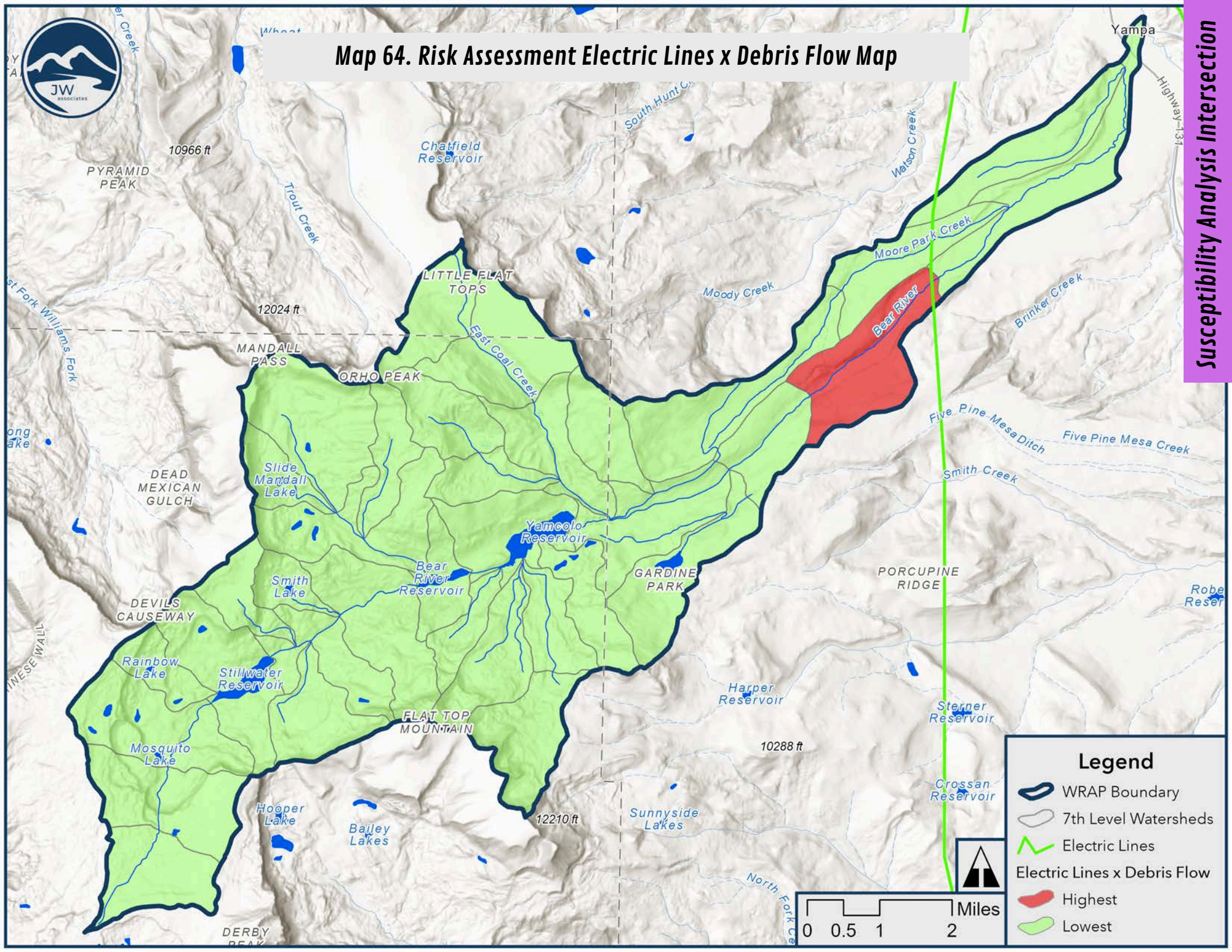
Legend

- WRAP Boundary
- 7th Level Watersheds
- Roads
- Roads x Debris Flow**
 - Highest
 - High
 - Moderate
 - Low
 - Lowest





Map 64. Risk Assessment Electric Lines x Debris Flow Map



Susceptibility Analysis Intersection

Legend

WRAP Boundary

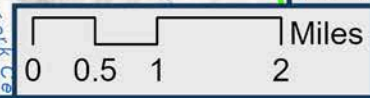
7th Level Watersheds

Electric Lines

Electric Lines x Debris Flow

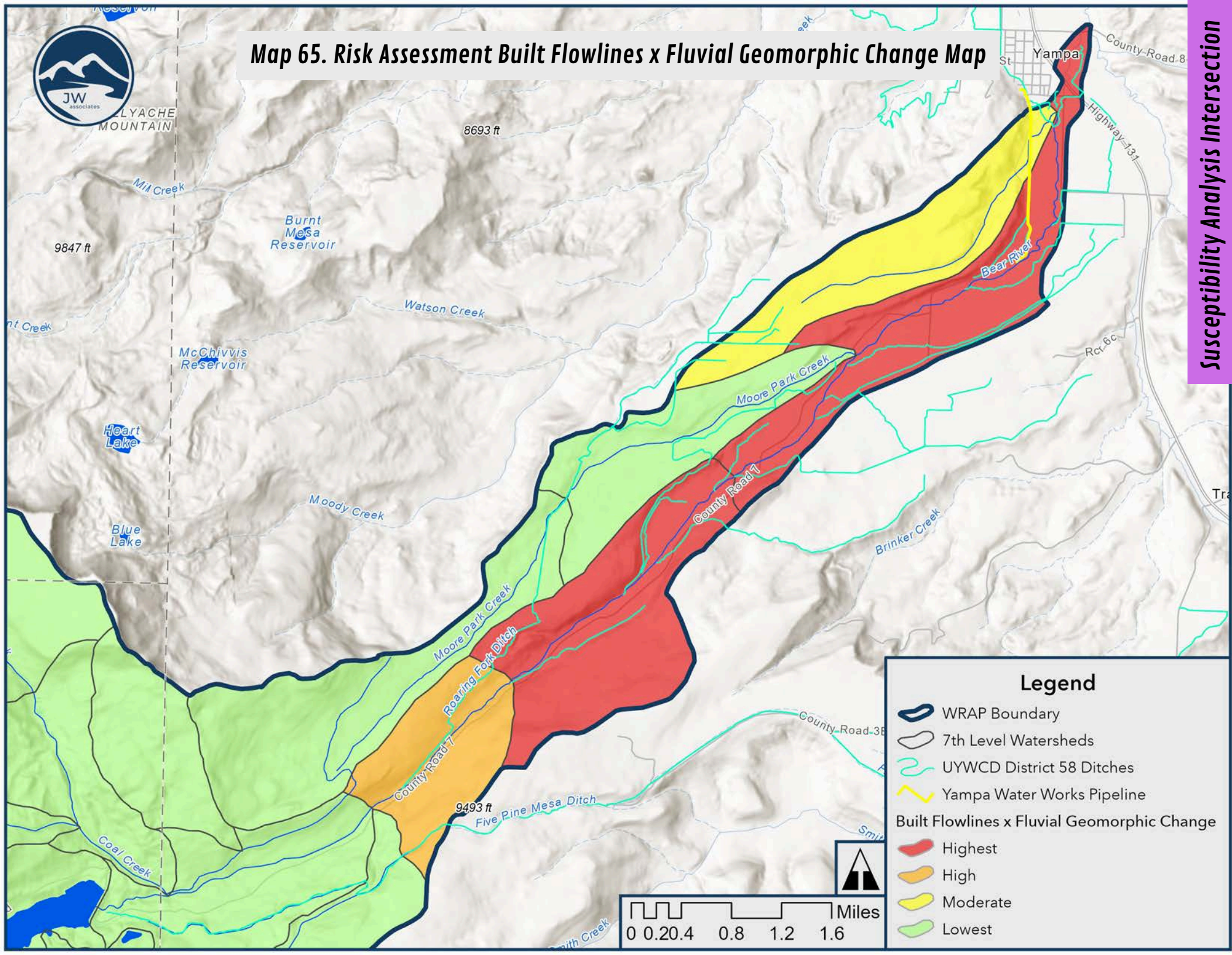
Highest

Lowest



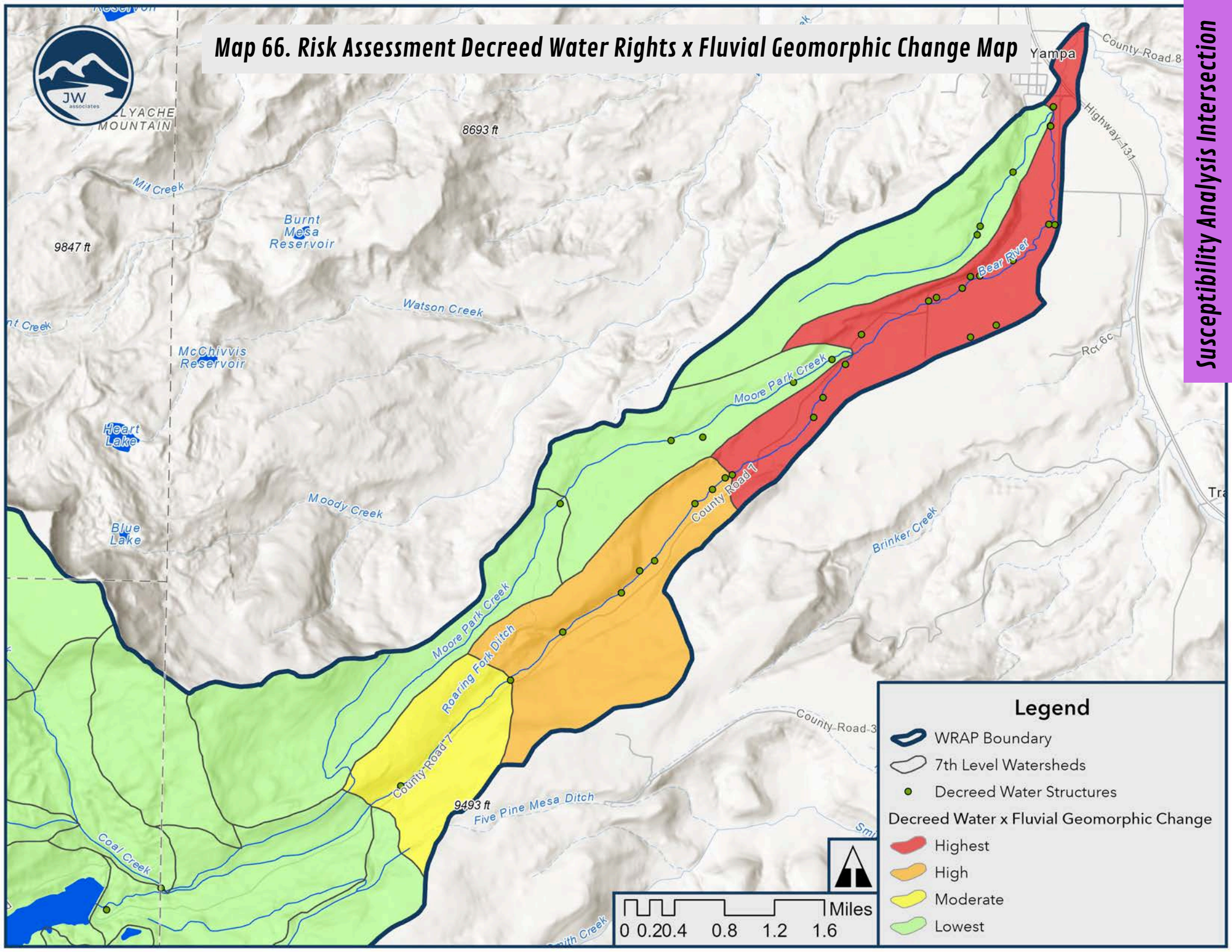


Map 65. Risk Assessment Built Flowlines x Fluvial Geomorphic Change Map





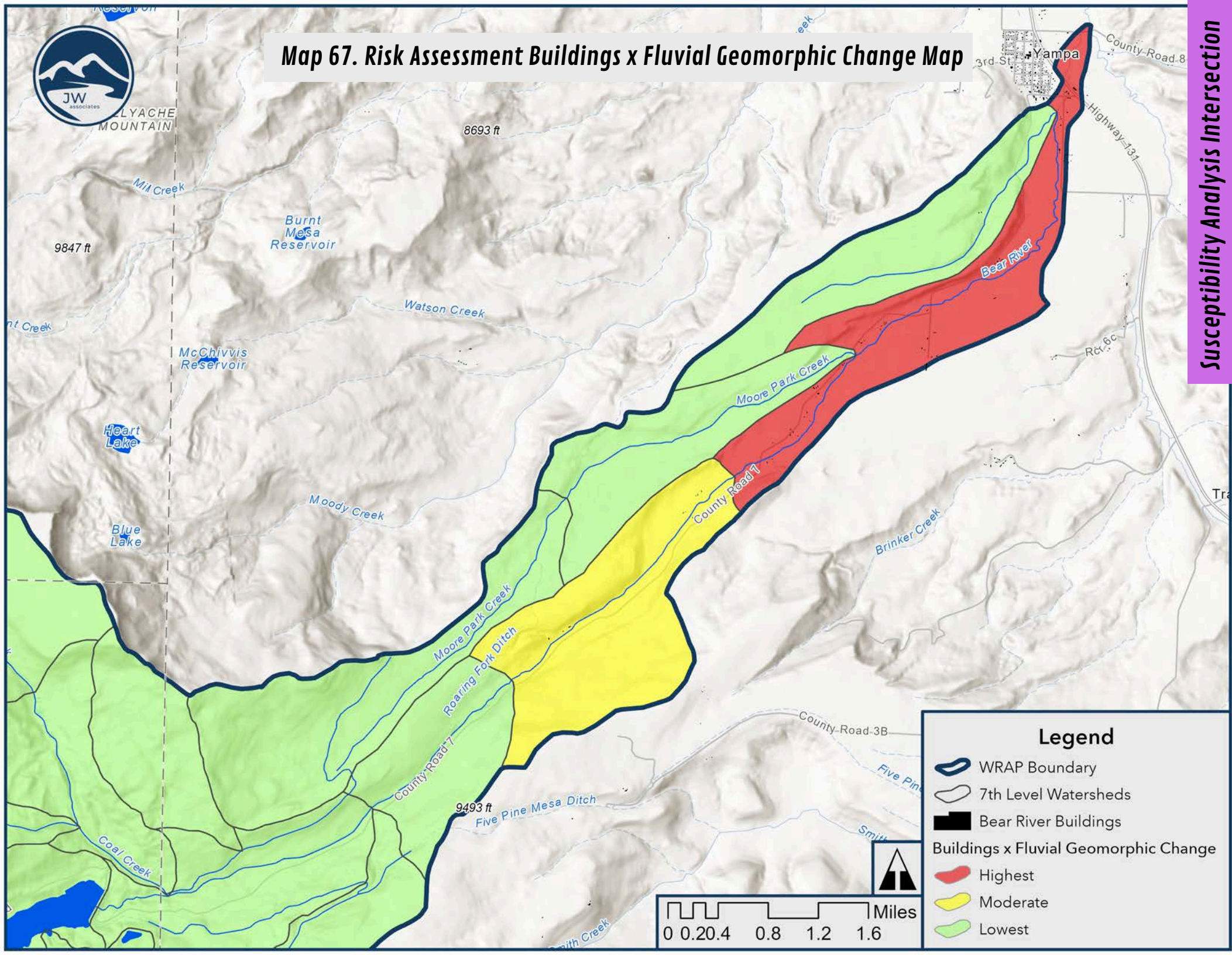
Map 66. Risk Assessment Decreed Water Rights x Fluvial Geomorphic Change Map



Susceptibility Analysis Intersection

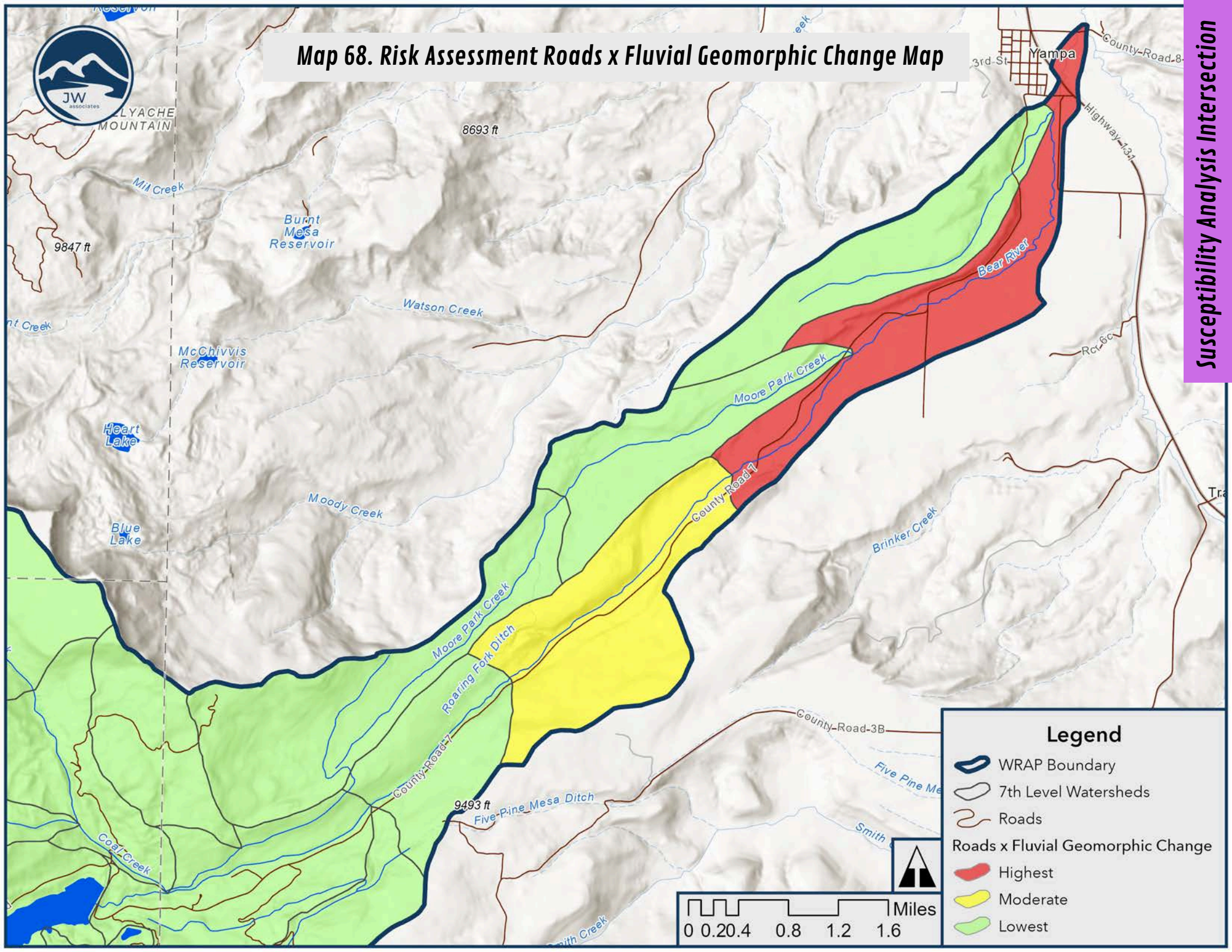


Map 67. Risk Assessment Buildings x Fluvial Geomorphic Change Map

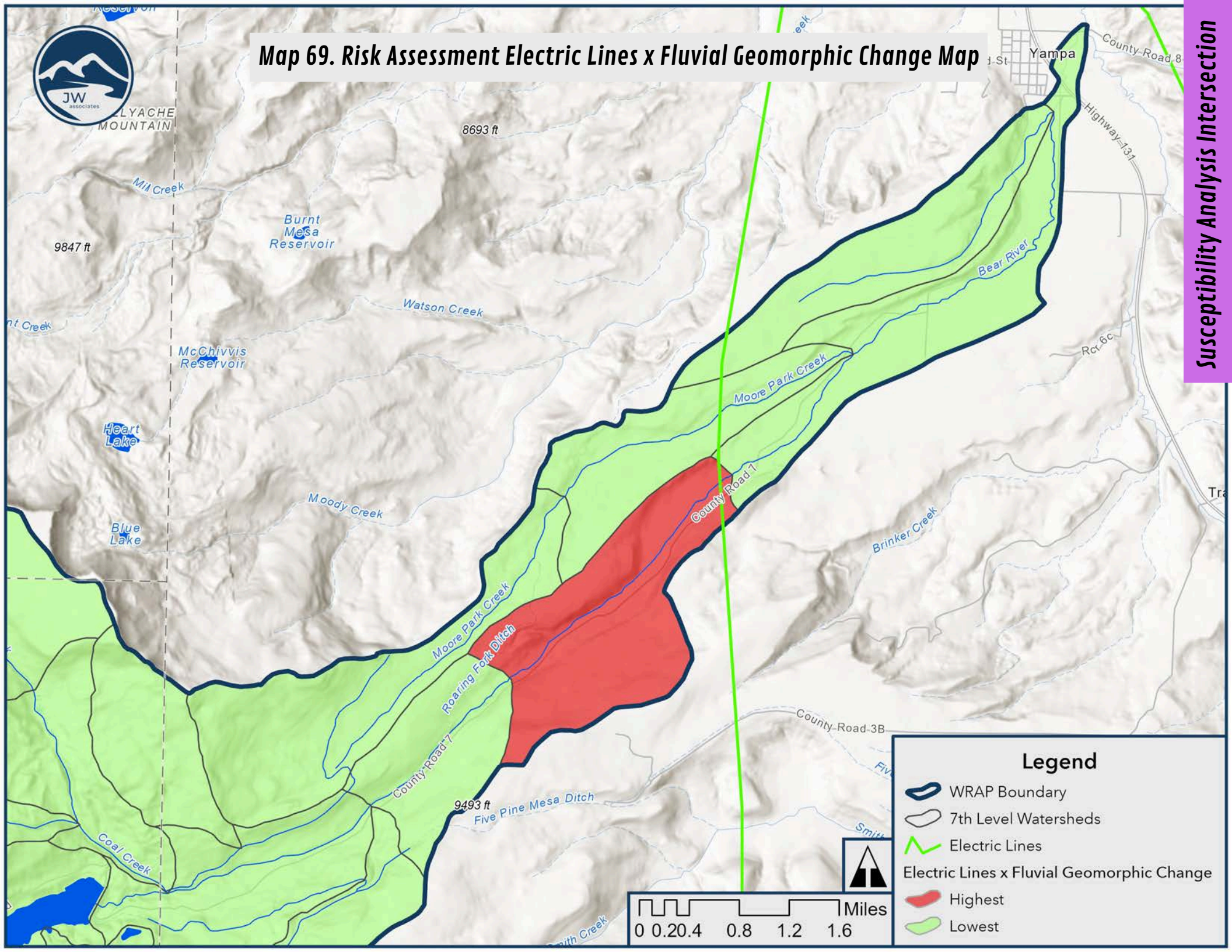




Map 68. Risk Assessment Roads x Fluvial Geomorphic Change Map



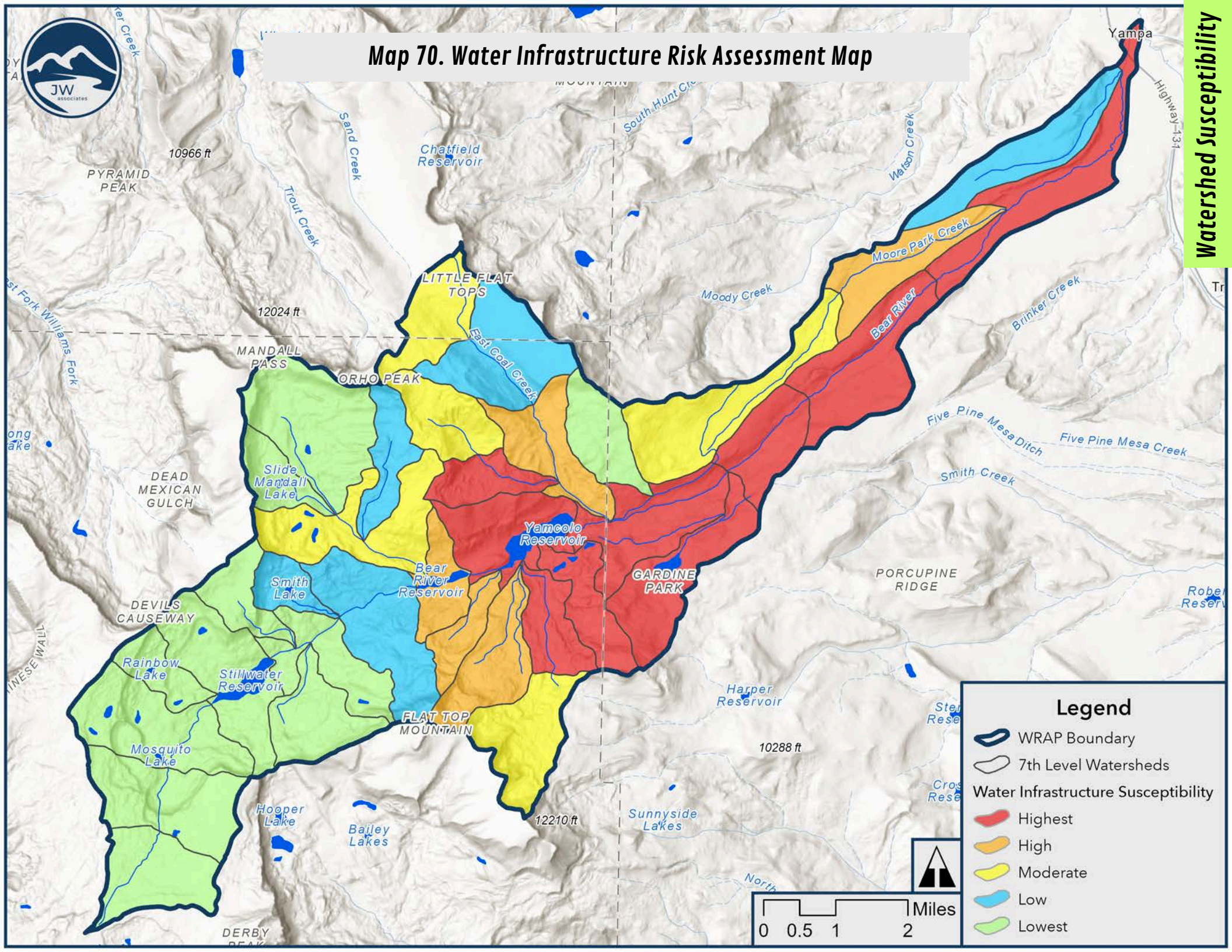
Map 69. Risk Assessment Electric Lines x Fluvial Geomorphic Change Map





Map 70. Water Infrastructure Risk Assessment Map

Watershed Susceptibility



Legend

WRAP Boundary

7th Level Watersheds

Water Infrastructure Susceptibility

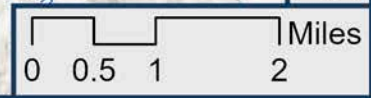
Highest

High

Moderate

Low

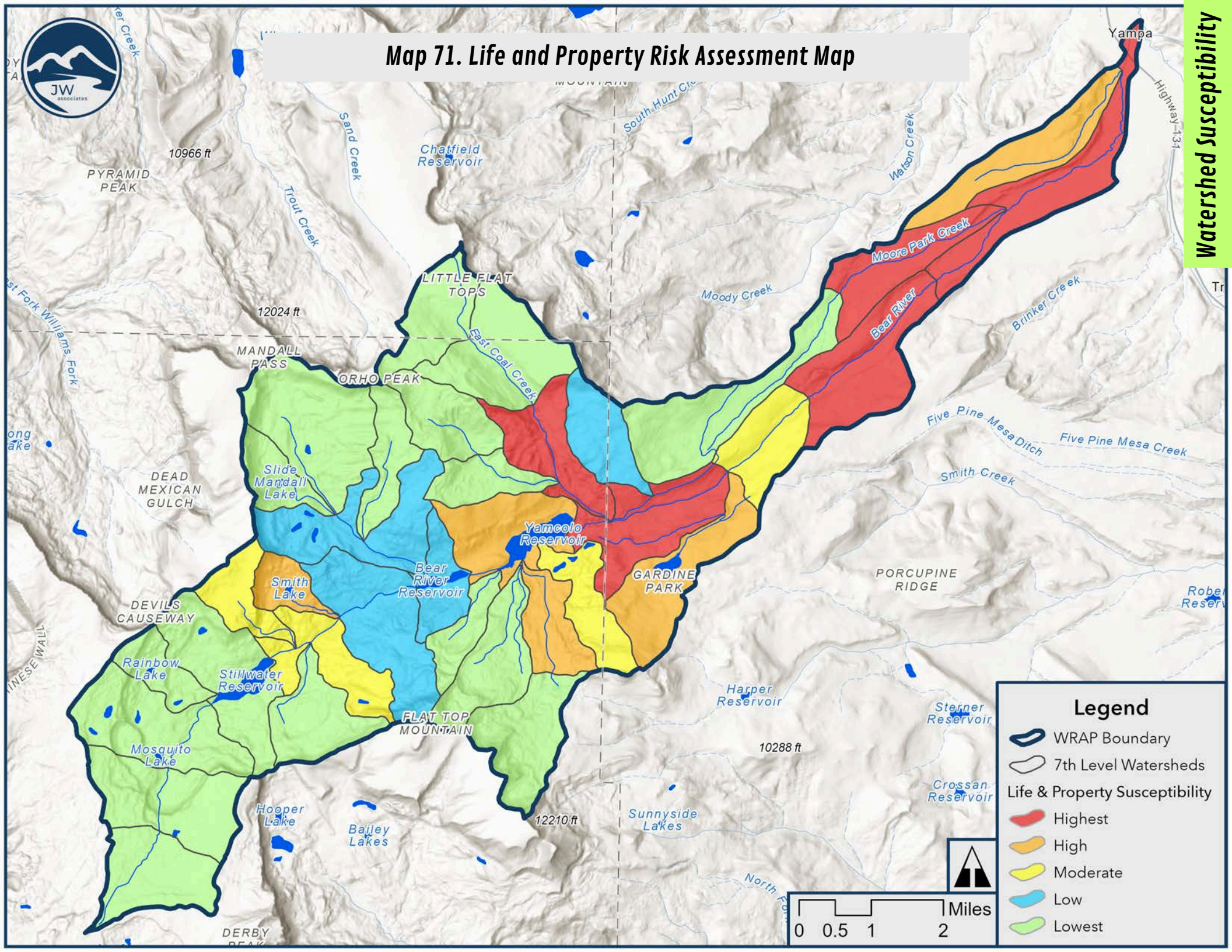
Lowest





Map 71. Life and Property Risk Assessment Map

Watershed Susceptibility



Legend

WRAP Boundary

7th Level Watersheds

Life & Property Susceptibility

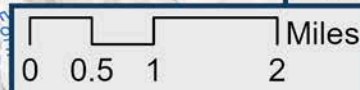
Highest

High

Moderate

Low

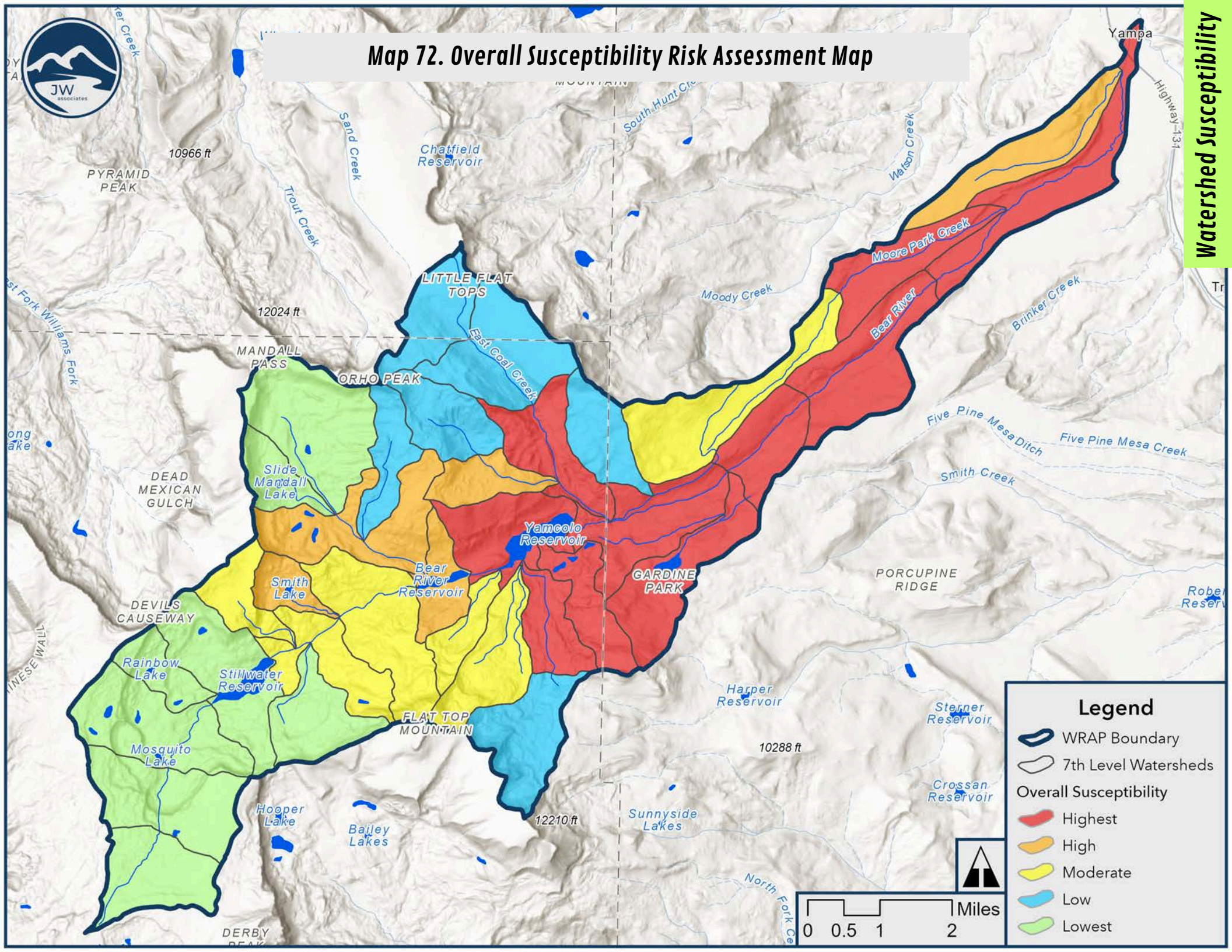
Lowest





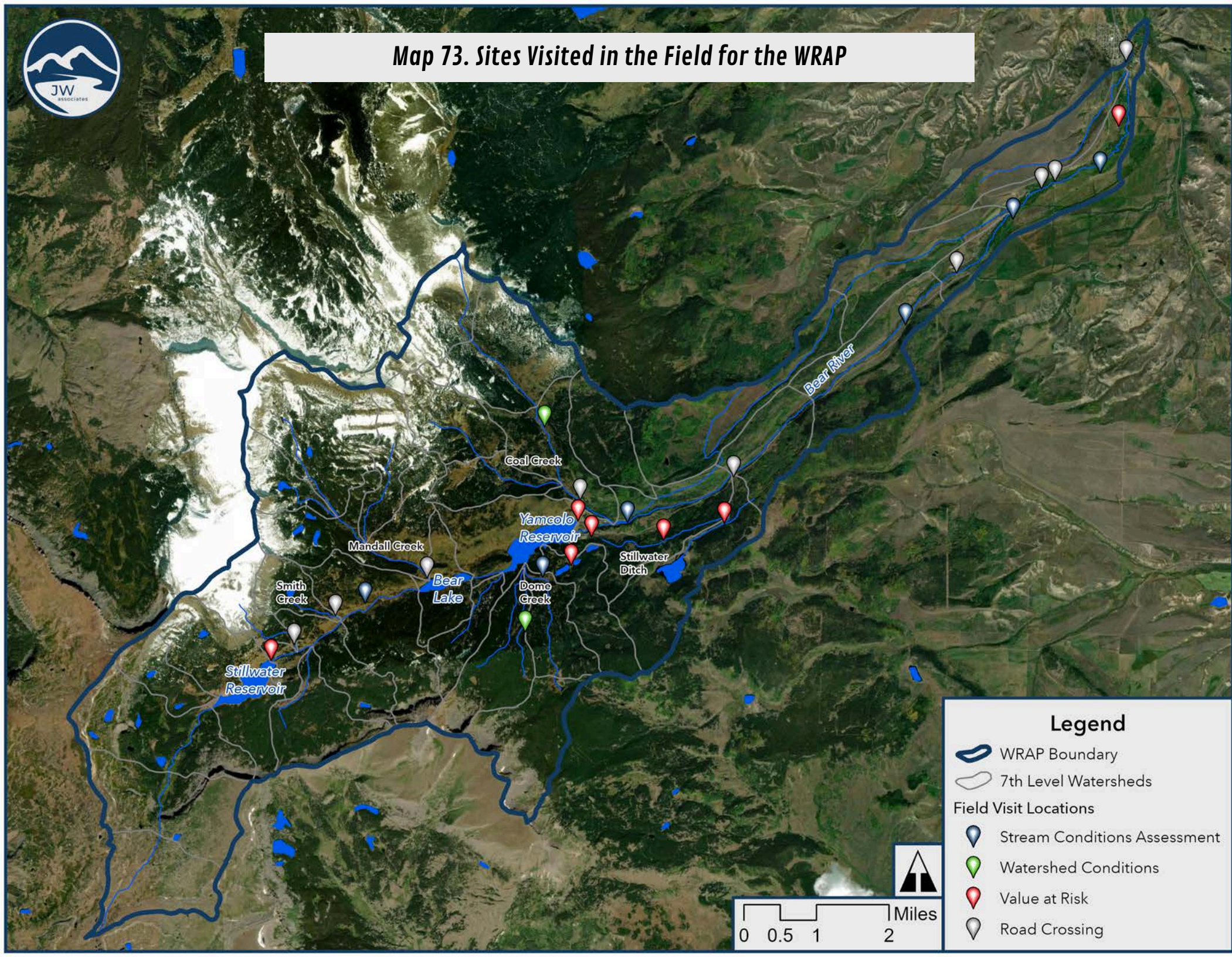
Map 72. Overall Susceptibility Risk Assessment Map

Watershed Susceptibility





Map 73. Sites Visited in the Field for the WRAP



Legend

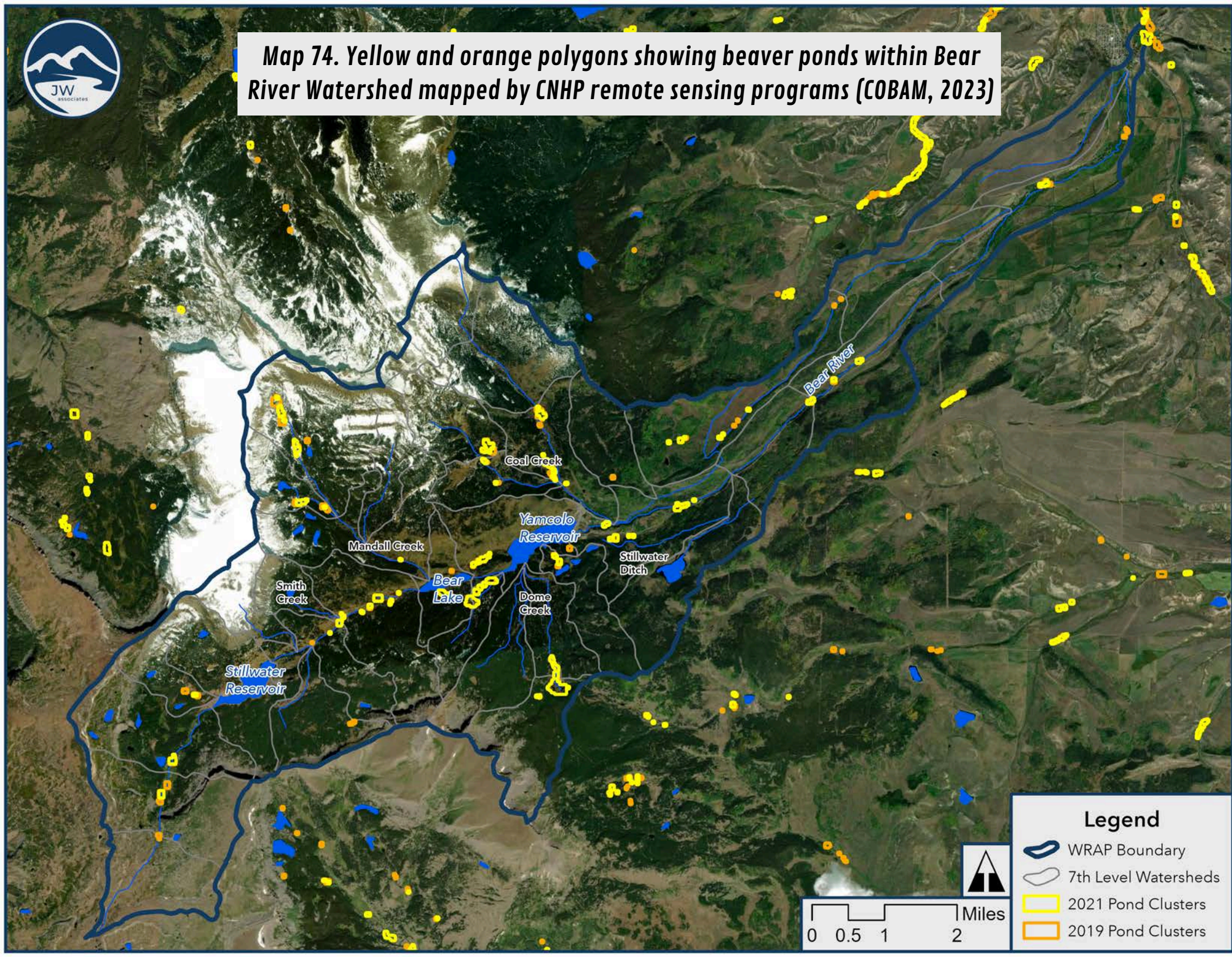
- WRAP Boundary
- 7th Level Watersheds

Field Visit Locations

- Stream Conditions Assessment
- Watershed Conditions
- Value at Risk
- Road Crossing



Map 74. Yellow and orange polygons showing beaver ponds within Bear River Watershed mapped by CNHP remote sensing programs (COBAM, 2023)



Legend

- WRAP Boundary
- 7th Level Watersheds
- 2021 Pond Clusters
- 2019 Pond Clusters

0 0.5 1 2 Miles

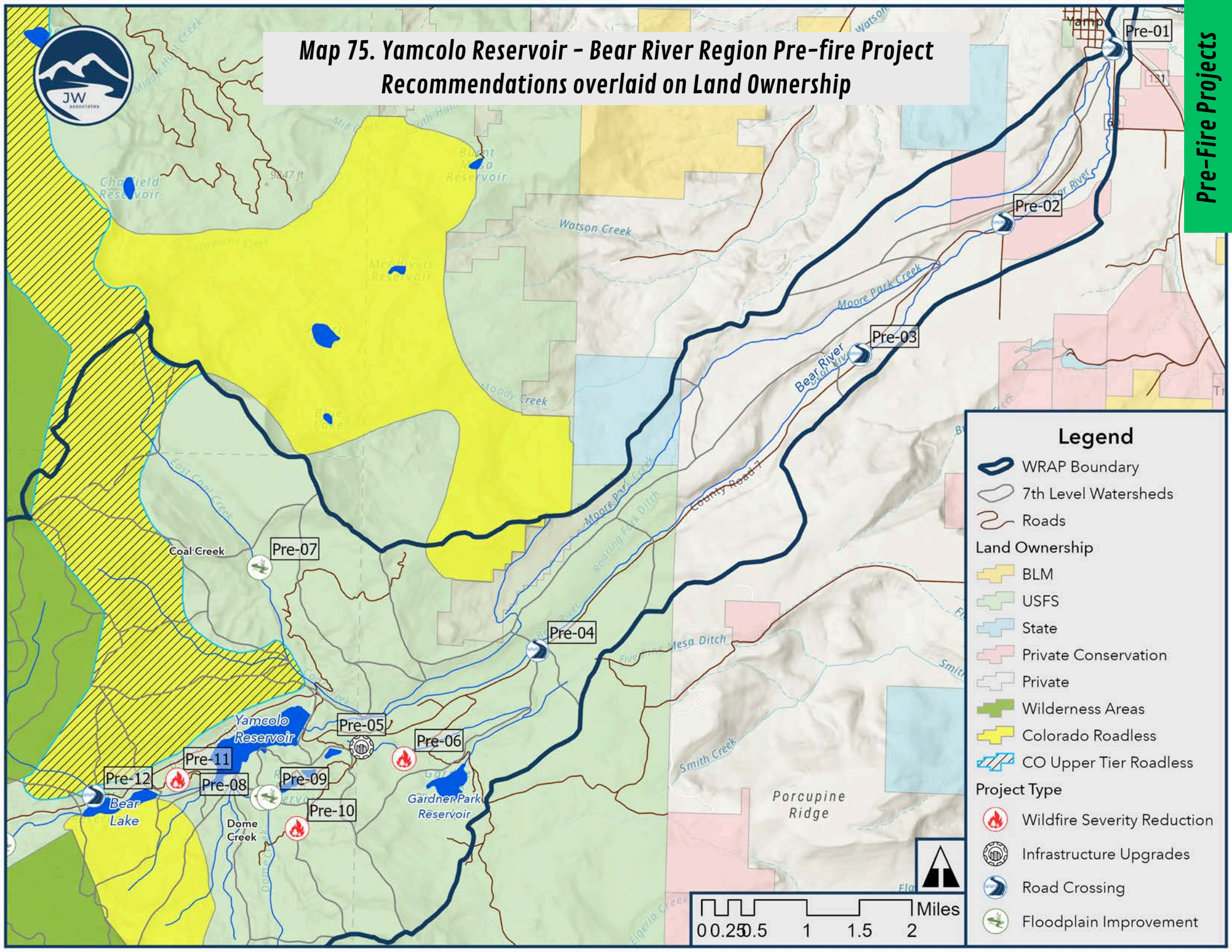
Map 75. Yamcolo Reservoir - Bear River Region Pre-fire Project Recommendations overlaid on Land Ownership



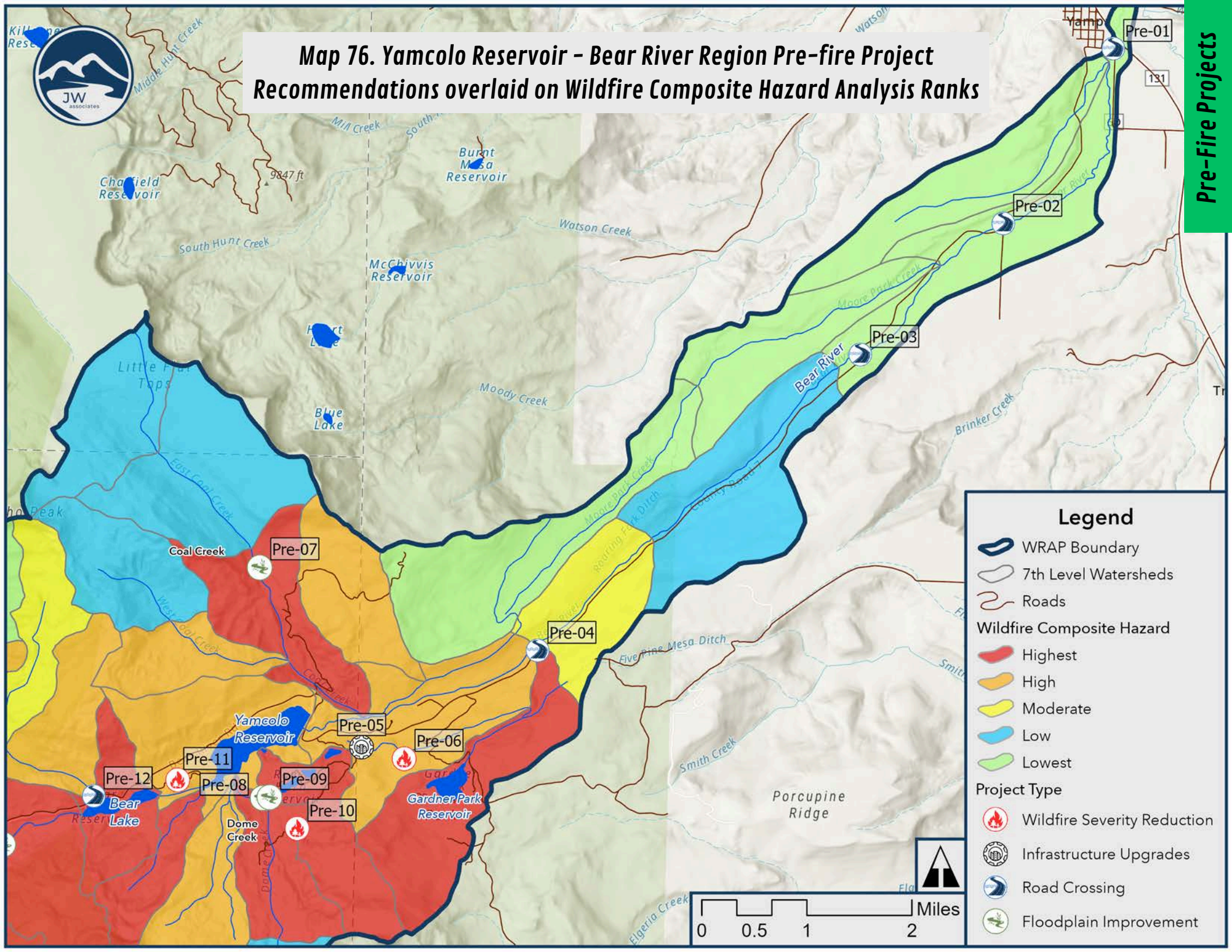
Pre-Fire Projects

Legend

- WRAP Boundary
- 7th Level Watersheds
- Roads
- Land Ownership**
 - BLM
 - USFS
 - State
 - Private Conservation
 - Private
 - Wilderness Areas
 - Colorado Roadless
 - CO Upper Tier Roadless
- Project Type**
 - Wildfire Severity Reduction
 - Infrastructure Upgrades
 - Road Crossing
 - Floodplain Improvement



Map 76. Yamcolo Reservoir - Bear River Region Pre-fire Project Recommendations overlaid on Wildfire Composite Hazard Analysis Ranks

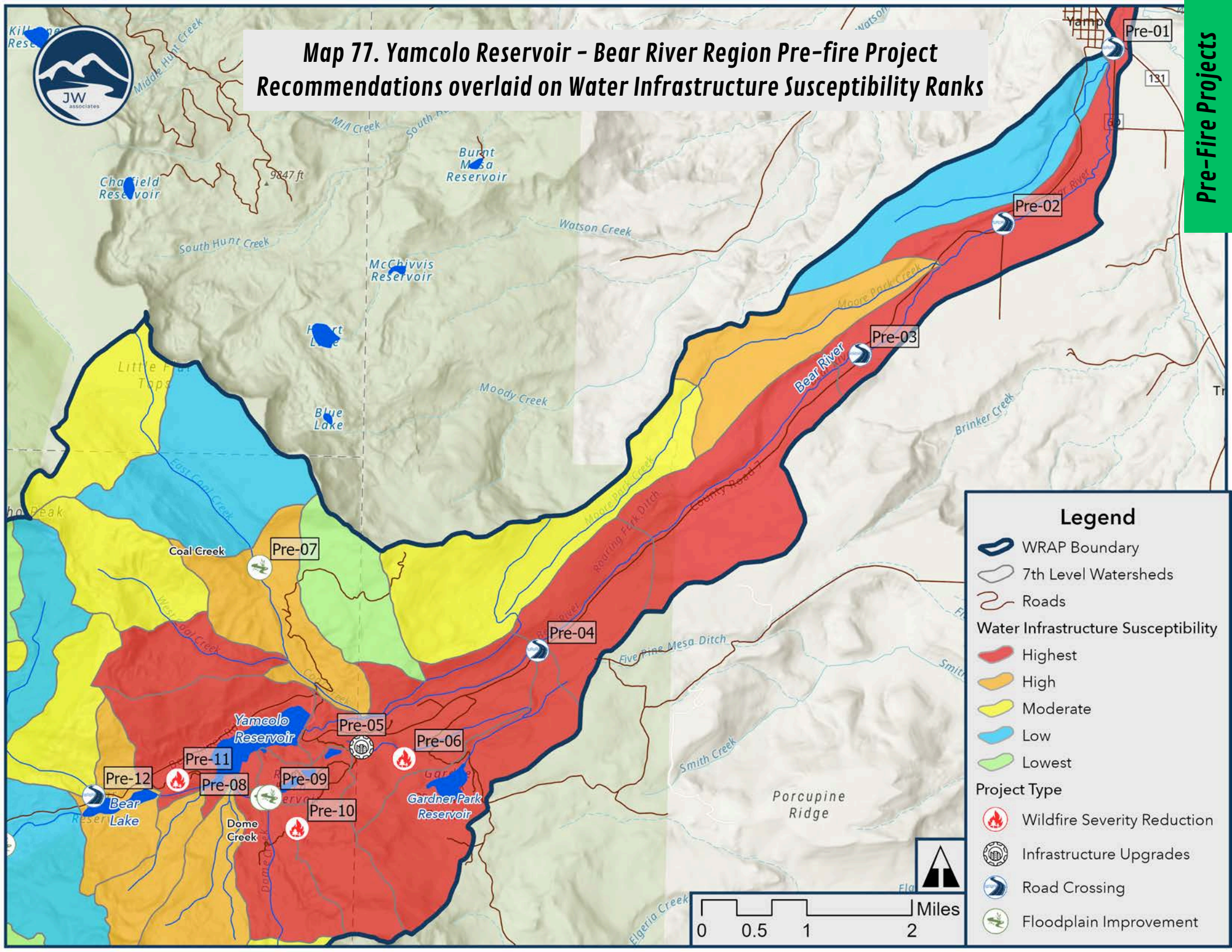


Pre-Fire Projects

Legend

- WRAP Boundary
- 7th Level Watersheds
- Roads
- Wildfire Composite Hazard
 - Highest
 - High
 - Moderate
 - Low
 - Lowest
- Project Type
 - Wildfire Severity Reduction
 - Infrastructure Upgrades
 - Road Crossing
 - Floodplain Improvement

Map 77. Yamcolo Reservoir - Bear River Region Pre-fire Project Recommendations overlaid on Water Infrastructure Susceptibility Ranks



Pre-Fire Projects

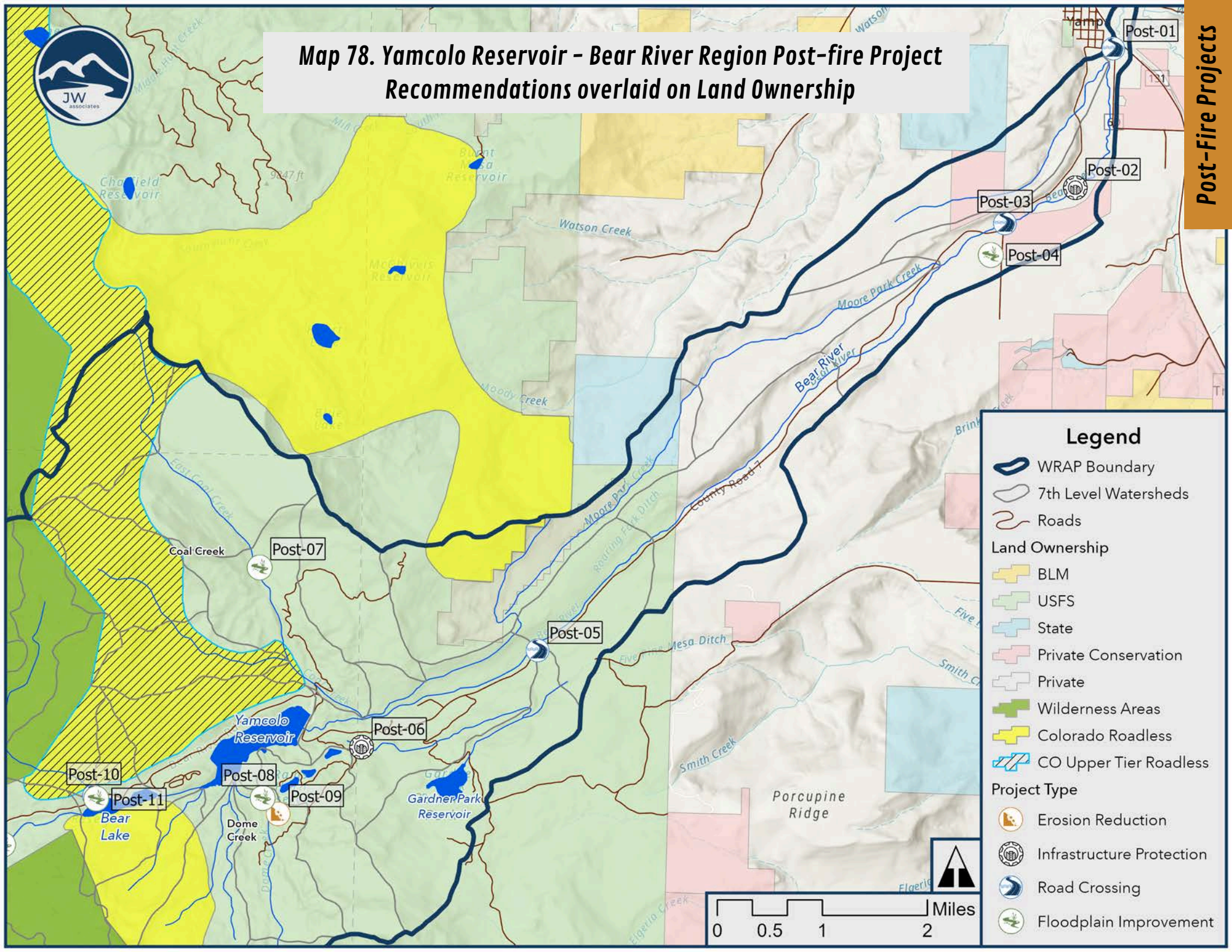
Legend

- WRAP Boundary
- 7th Level Watersheds
- Roads
- Water Infrastructure Susceptibility
 - Highest
 - High
 - Moderate
 - Low
 - Lowest
- Project Type
 - Wildfire Severity Reduction
 - Infrastructure Upgrades
 - Road Crossing
 - Floodplain Improvement

Map 78. Yamcolo Reservoir - Bear River Region Post-fire Project Recommendations overlaid on Land Ownership



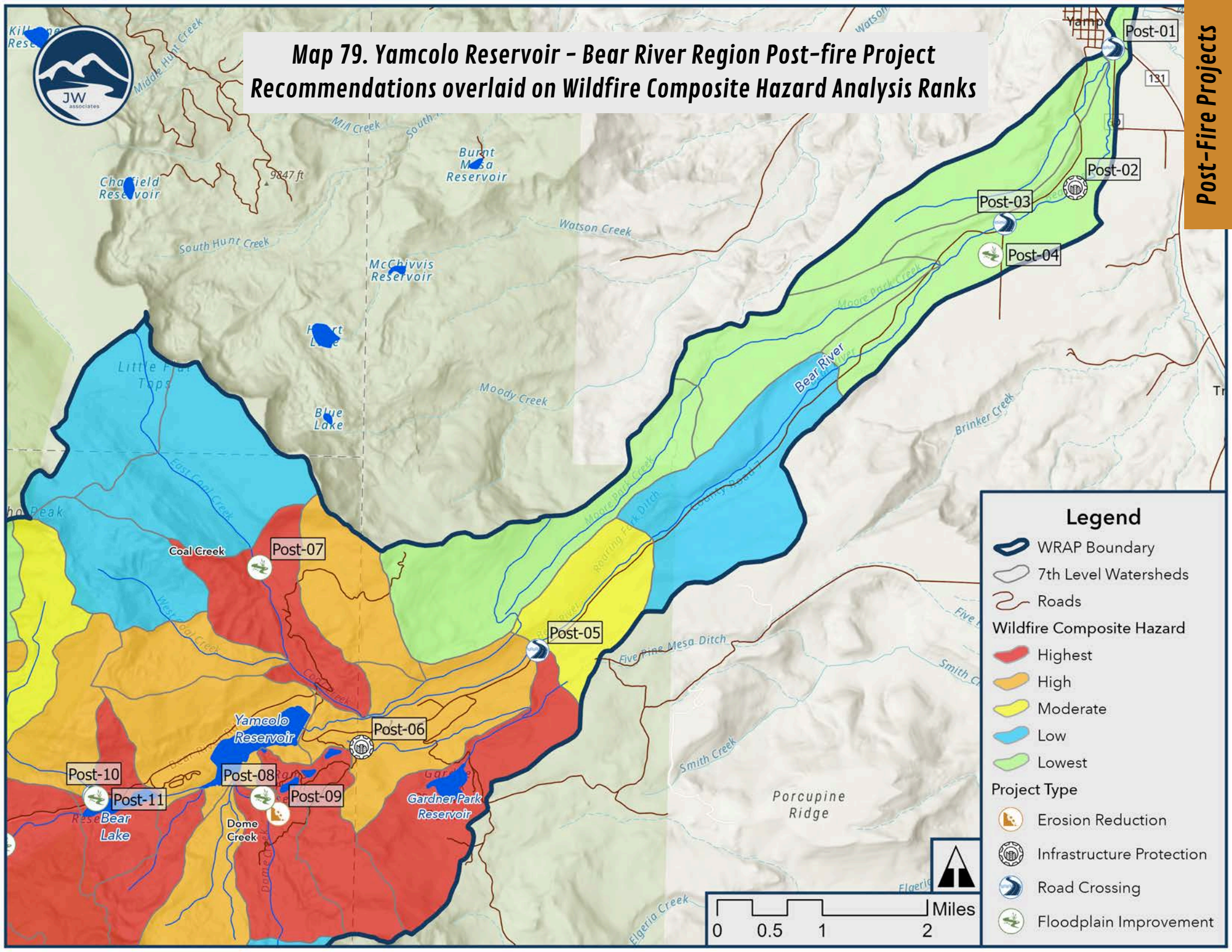
Post-Fire Projects



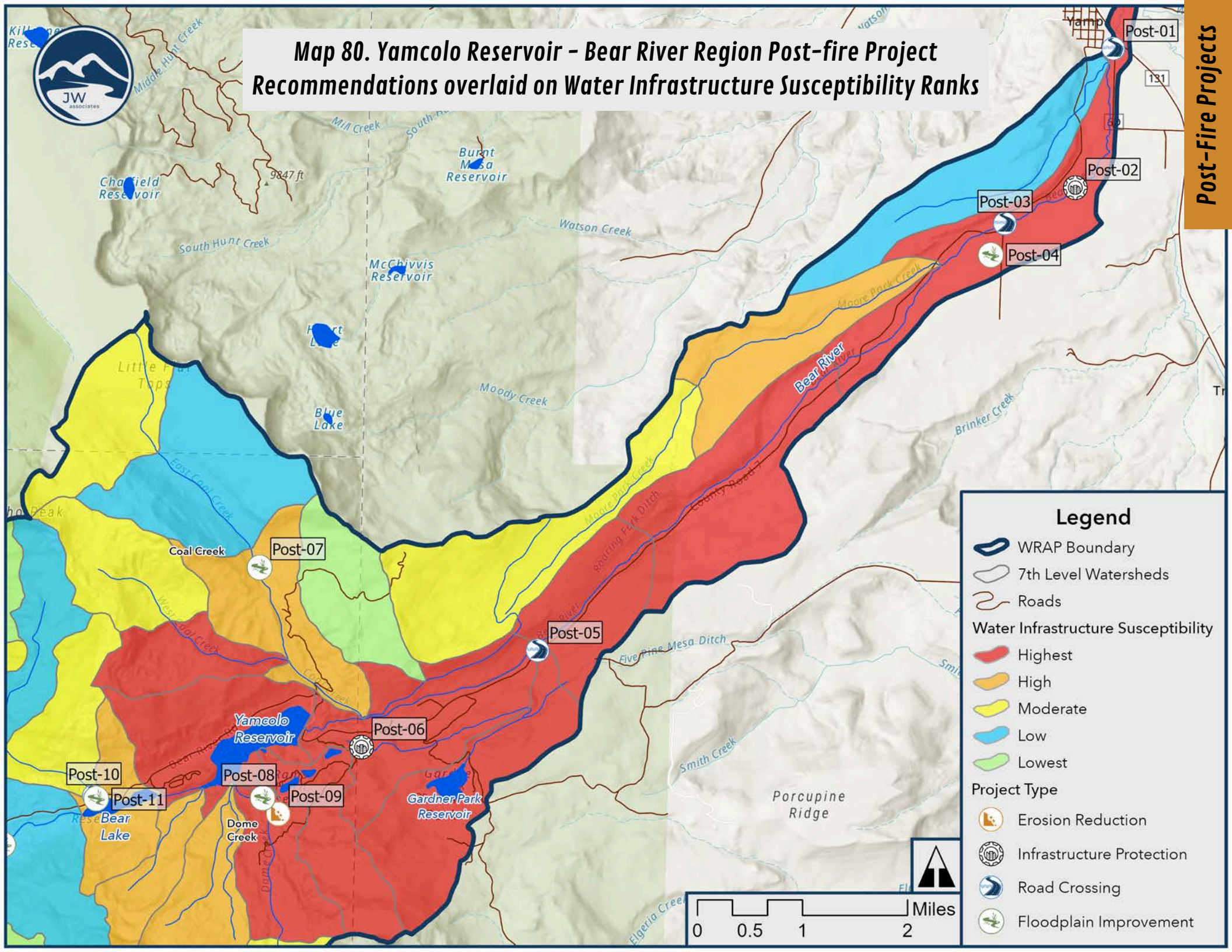
Legend

- WRAP Boundary
- 7th Level Watersheds
- Roads
- Land Ownership**
 - BLM
 - USFS
 - State
 - Private Conservation
 - Private
 - Wilderness Areas
 - Colorado Roadless
 - CO Upper Tier Roadless
- Project Type**
 - Erosion Reduction
 - Infrastructure Protection
 - Road Crossing
 - Floodplain Improvement

Map 79. Yamcolo Reservoir - Bear River Region Post-fire Project Recommendations overlaid on Wildfire Composite Hazard Analysis Ranks



Map 80. Yamcolo Reservoir - Bear River Region Post-fire Project Recommendations overlaid on Water Infrastructure Susceptibility Ranks



Post-Fire Projects

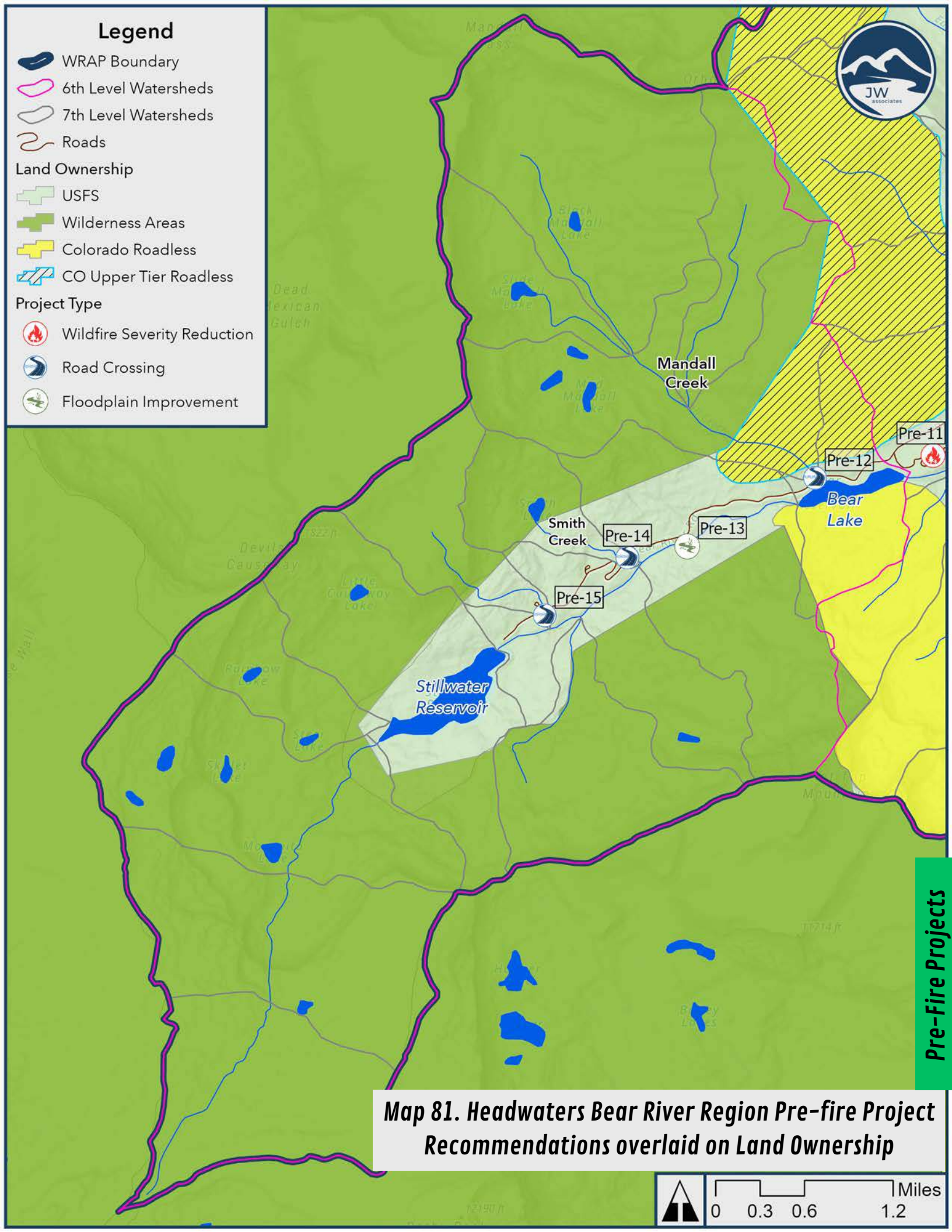
Legend

- WRAP Boundary
- 7th Level Watersheds
- Roads
- Water Infrastructure Susceptibility
 - Highest
 - High
 - Moderate
 - Low
 - Lowest
- Project Type
 - Erosion Reduction
 - Infrastructure Protection
 - Road Crossing
 - Floodplain Improvement



Legend

- WRAP Boundary
- 6th Level Watersheds
- 7th Level Watersheds
- Roads
- Land Ownership
 - USFS
 - Wilderness Areas
 - Colorado Roadless
 - CO Upper Tier Roadless
- Project Type
 - Wildfire Severity Reduction
 - Road Crossing
 - Floodplain Improvement



Map 81. Headwaters Bear River Region Pre-fire Project Recommendations overlaid on Land Ownership



0 0.3 0.6 1.2 Miles

Legend

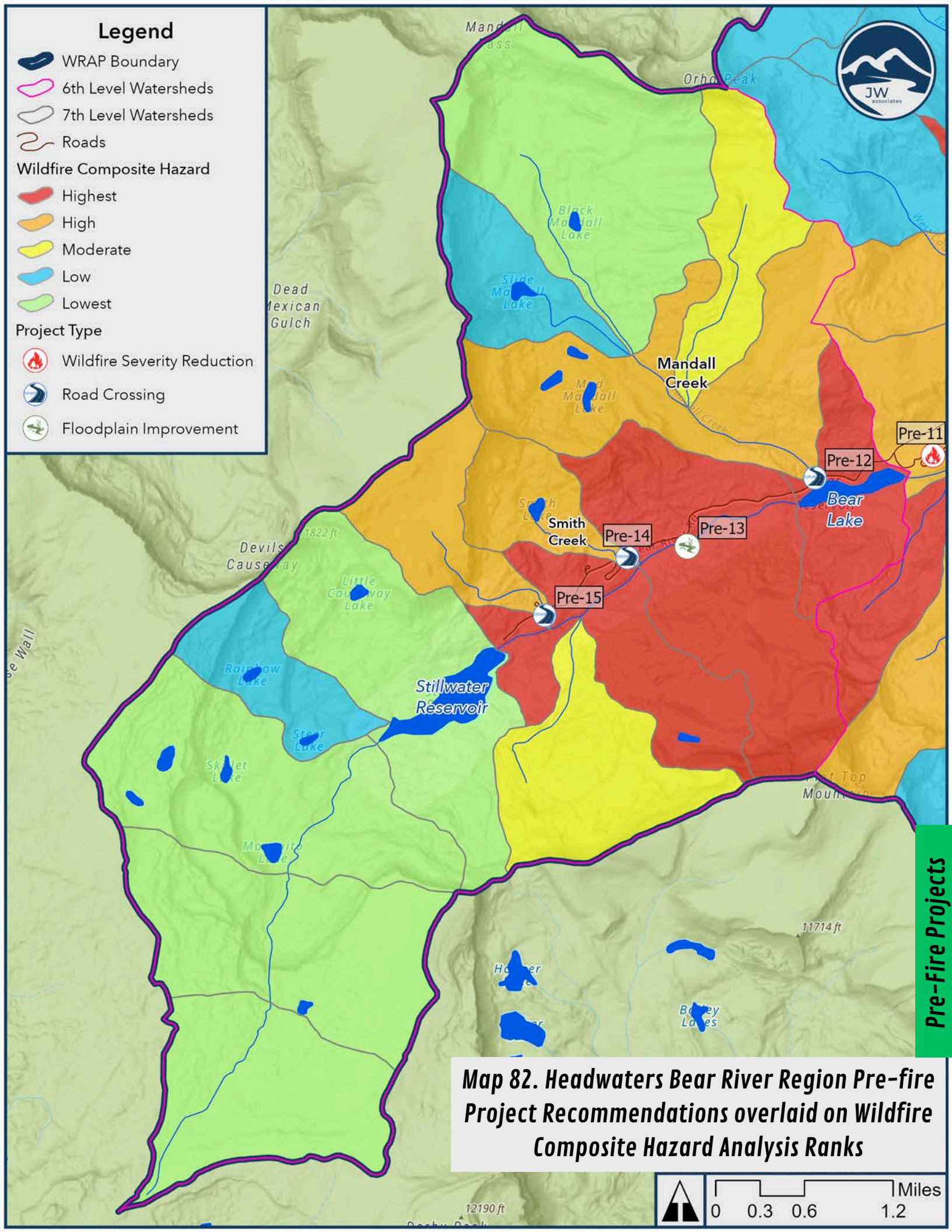
- WRAP Boundary
- 6th Level Watersheds
- 7th Level Watersheds
- Roads

Wildfire Composite Hazard

- Highest
- High
- Moderate
- Low
- Lowest

Project Type

- Wildfire Severity Reduction
- Road Crossing
- Floodplain Improvement



Map 82. Headwaters Bear River Region Pre-fire Project Recommendations overlaid on Wildfire Composite Hazard Analysis Ranks

Pre-Fire Projects



0 0.3 0.6 1.2 Miles

Legend

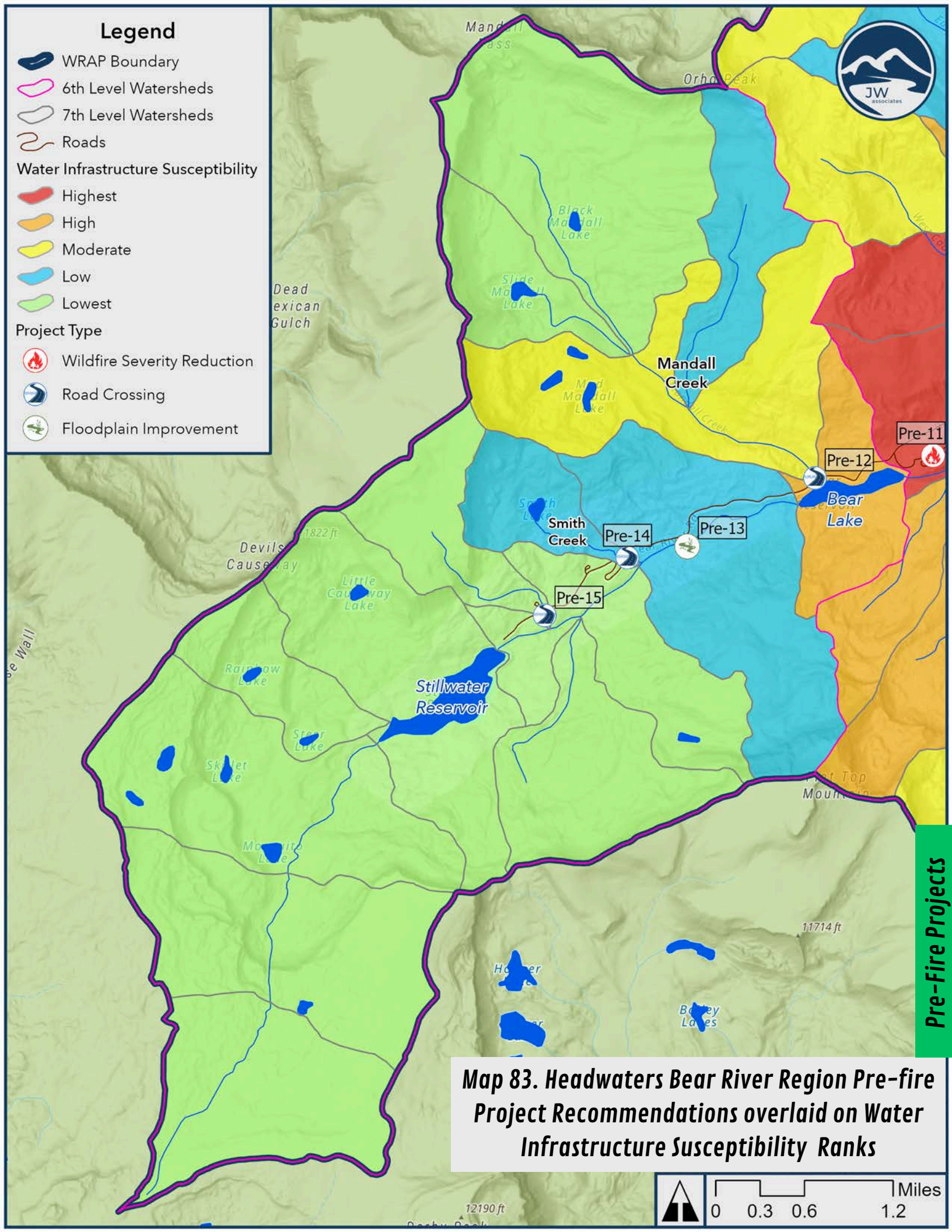
- WRAP Boundary
- 6th Level Watersheds
- 7th Level Watersheds
- Roads

Water Infrastructure Susceptibility

- Highest
- High
- Moderate
- Low
- Lowest

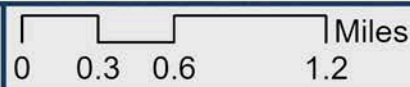
Project Type

- Wildfire Severity Reduction
- Road Crossing
- Floodplain Improvement



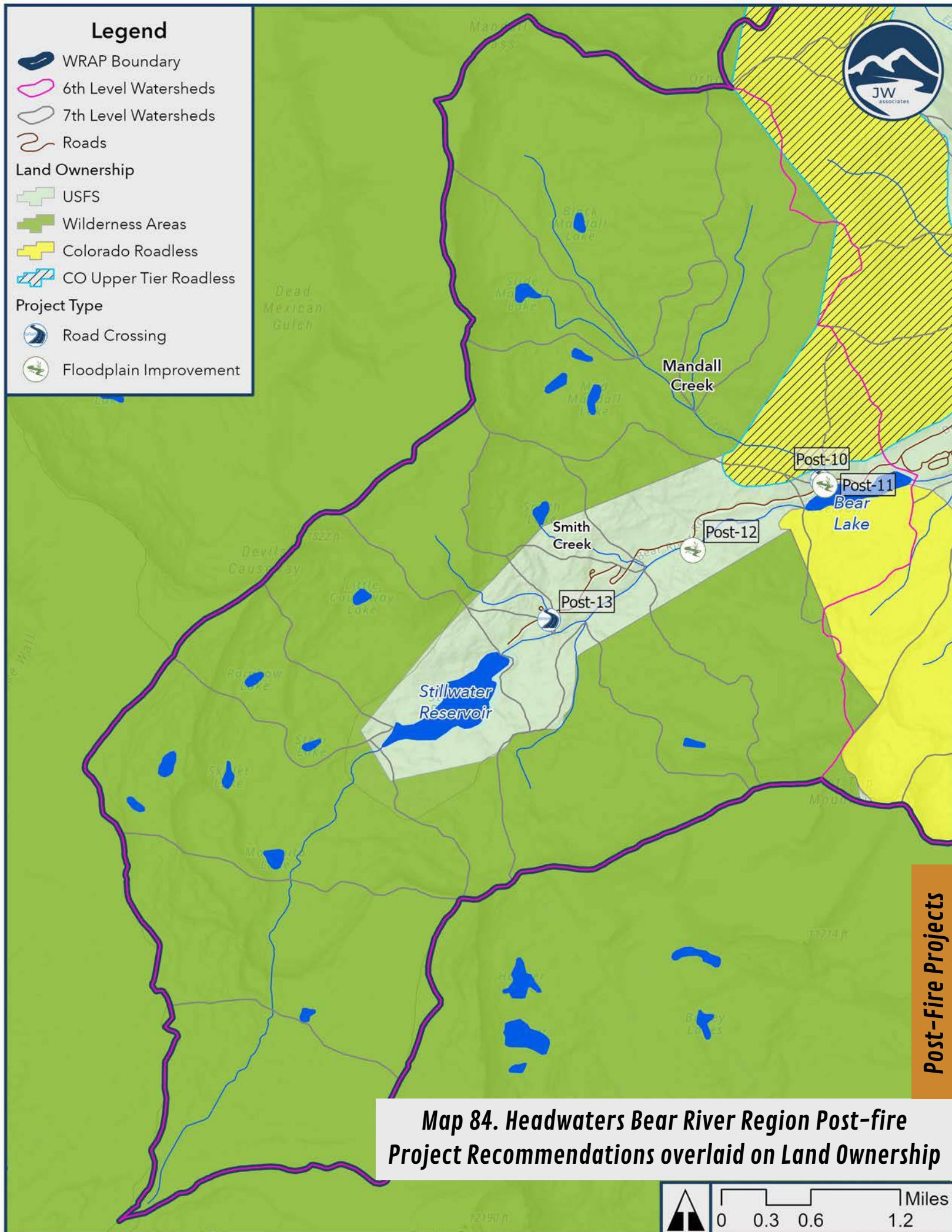
Map 83. Headwaters Bear River Region Pre-fire Project Recommendations overlaid on Water Infrastructure Susceptibility Ranks

Pre-Fire Projects



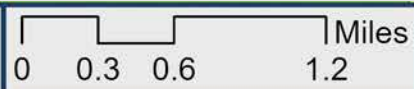
Legend

- WRAP Boundary
- 6th Level Watersheds
- 7th Level Watersheds
- Roads
- Land Ownership
 - USFS
 - Wilderness Areas
 - Colorado Roadless
 - CO Upper Tier Roadless
- Project Type
 - Road Crossing
 - Floodplain Improvement



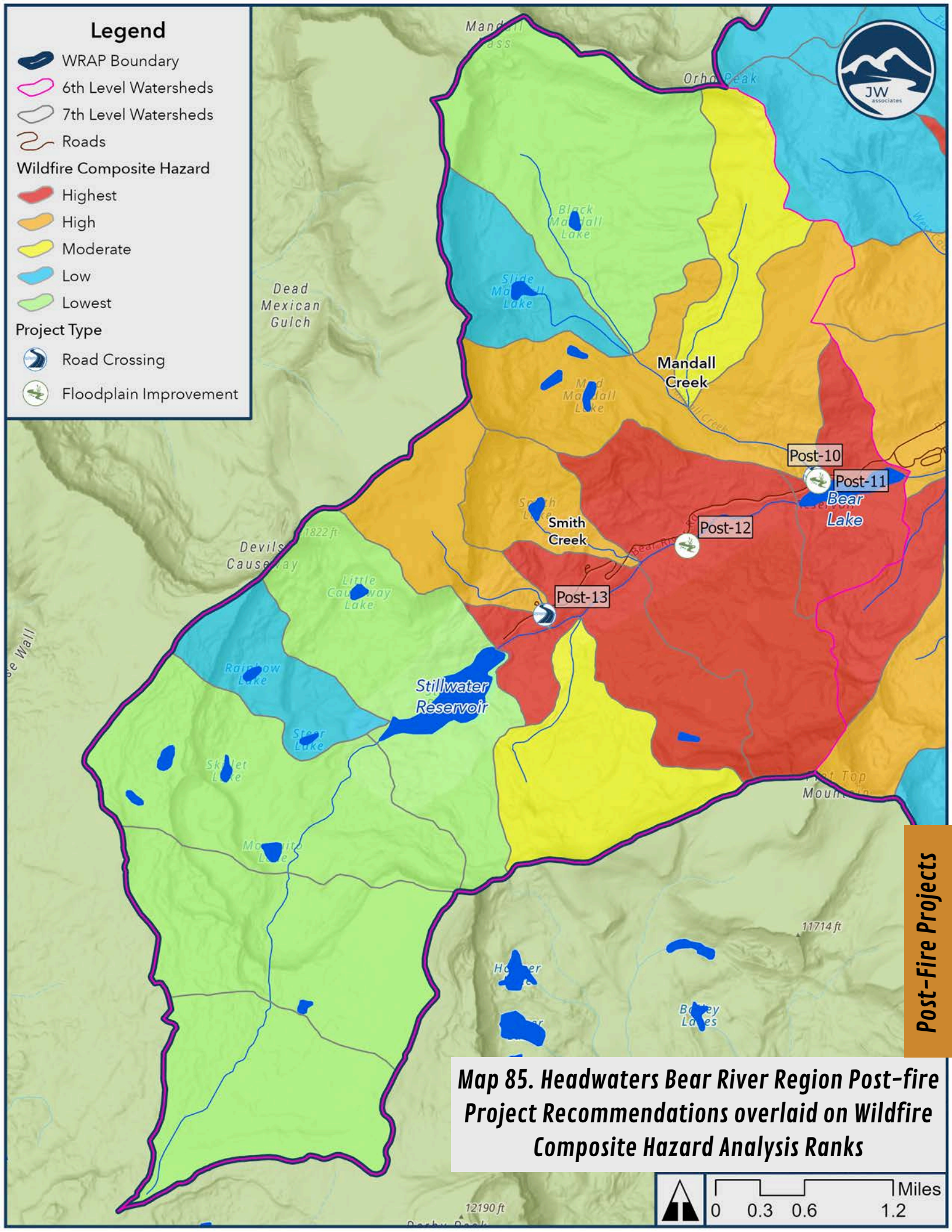
Post-Fire Projects

Map 84. Headwaters Bear River Region Post-fire Project Recommendations overlaid on Land Ownership



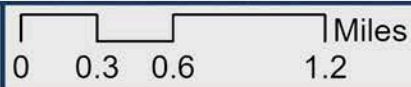
Legend

- WRAP Boundary
- 6th Level Watersheds
- 7th Level Watersheds
- Roads
- Wildfire Composite Hazard
 - Highest
 - High
 - Moderate
 - Low
 - Lowest
- Project Type
 - Road Crossing
 - Floodplain Improvement



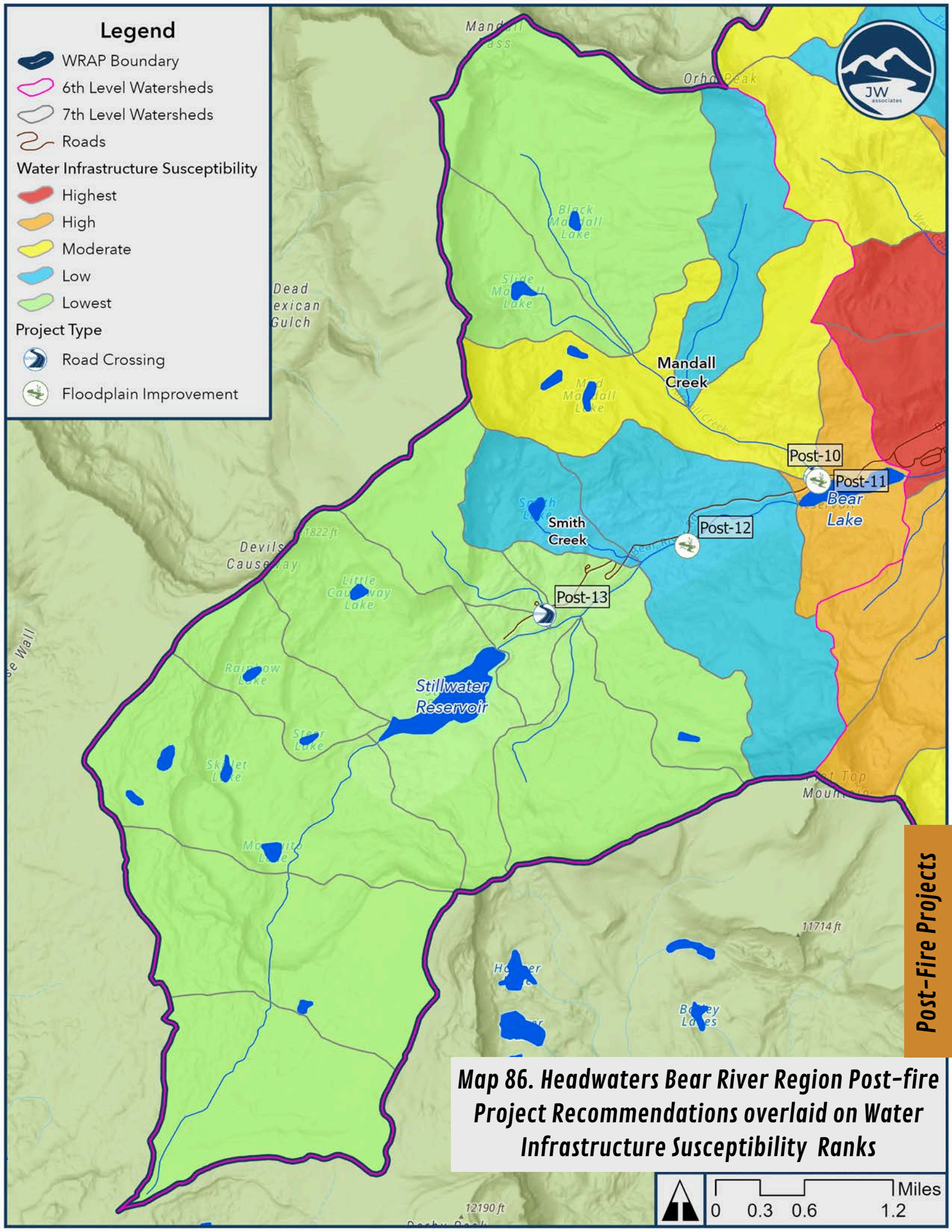
Post-Fire Projects

Map 85. Headwaters Bear River Region Post-fire Project Recommendations overlaid on Wildfire Composite Hazard Analysis Ranks



Legend

-  WRAP Boundary
-  6th Level Watersheds
-  7th Level Watersheds
-  Roads
- Water Infrastructure Susceptibility**
 -  Highest
 -  High
 -  Moderate
 -  Low
 -  Lowest
- Project Type**
 -  Road Crossing
 -  Floodplain Improvement



Post-Fire Projects

Map 86. Headwaters Bear River Region Post-fire Project Recommendations overlaid on Water Infrastructure Susceptibility Ranks

