

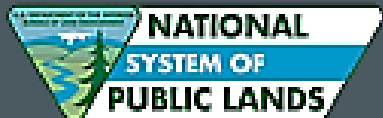
Westslope Cutthroat Trout (WCT) and Yellowstone Cutthroat Trout (YST)

1

These slides show two kinds of mapped data that were sourced from the Middle Rockies REA:

- Distributions = streams where WCT or YST have been observed or measured
 - Fish data sources: StreamNet, Mfish, and Yellowstone Trout for WY
 - Density analysis: length of streams with trout (m)/ area (km²)
- Current habitat ratings by HUC12 are aggregated values from rated indicators – see the key ecological attributes (KEA) tables on next slides
 - Analysis: percent of rated area in each rating (Good, Fair, Poor)

http://www.blm.gov/wo/st/en/prog/more/Landscape_Approach/reas/midrockies.html

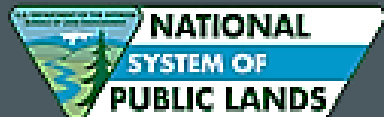


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Cold Water Fish Assemblage Key Ecological Attributes (KEA), Indicators, and Metrics for Current Status Assessment (1 of 2)

2

Category	Key Ecological Attribute	Indicator / Unit of Measure	Metric			Data Source	Citation
			Poor = 3	Fair = 2	Good = 1		
Size	Habitat Size	Number of Dams in HUC	>=10	6 – 9	<=5	NID	Stagliano 2007
Condition	Habitat Quality	Percent of HUC in Gap Analysis Program (GAP) Status 1 or 2	<25%	25–60%	>60 %	PAD Version 1.2 April 2011	Stagliano 2007
	Water Quality	Percent of Riparian Corridor with Natural landcover	<25%	25-80 %	>80%	National Land Cover Dataset (NLCD) - 2006	U.S. Department of Agriculture (USDA) 2011
		Number of oil/gas wells	>20	10-20	0 – 9	BLM Oil and Gas Wells	Stagliano 2007
		Percent of streams that are 303(d)- listed	>=10%	1-9%	0%	NHD Plus Streams U.S. Environmental Protection Agency (USEPA) 303(d) list	USDA 2011
		Number of Mines	>3	1 - 3	0	U.S. Geological Survey (USGS) Mineral Resources Data System (MRDS)	Data Quantiles
		Number of TRI sites	>1	1	0	USEPA Envirofacts Data- TRI class	Data Quantiles

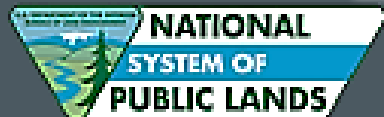


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Cold Water Fish Assemblage Key Ecological Attributes (KEA), Indicators, and Metrics for Current Status Assessment (2 of 2)

3

Category	Key Ecological Attribute	Indicator / Unit of Measure	Metric			Data Source	Citation
			Poor = 3	Fair = 2	Good = 1		
Context	Landscape Structure	Percent of streams/ shorelines within 40-m of road	>2.5%	1 - 2.5%	<1%	NHD Plus Streams, Water bodies, Area Topographically Integrated Geographic Encoding and Referencing (TIGER) Roads 2010 - All Roads	Stagliano 2007
		Percent of HUC in agricultural use (cropland)	>60%	30 - 60%	<30%	NLCD - 2006	Allan 2004
		Percent of riparian corridor in agricultural use (cropland)	>6%	3 - 6%	<3%	NLCD - 2006	Stagliano 2007
		Percent of HUC impervious	>10%	6 - 10%	<6%	NLCD - 2006	Allan 2004 Table 1 from Appendix E page 142 of Annis et al. 2010. Wang et al. 2008
		Percent of riparian corridor in impervious	>10%	5 - 10 %	<5%	NLCD - 2006	Wang et al. 2008 Joubert and Loomis 2005
		Population in HUC 12 per square kilometer (km ²)	>300	100-300	<100	Landscan 2000 Global Population Database	Wang et al. 2008



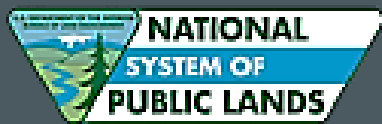
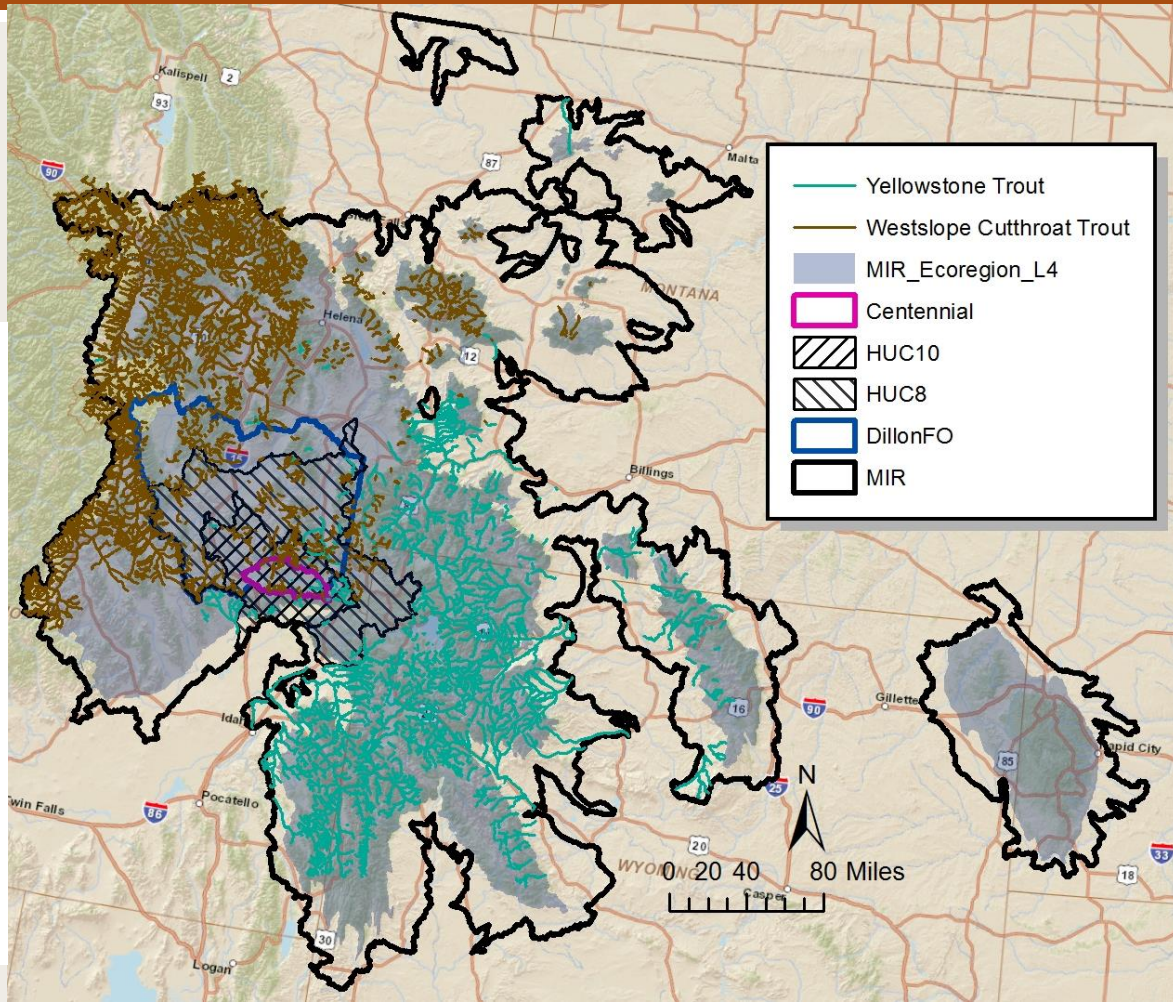
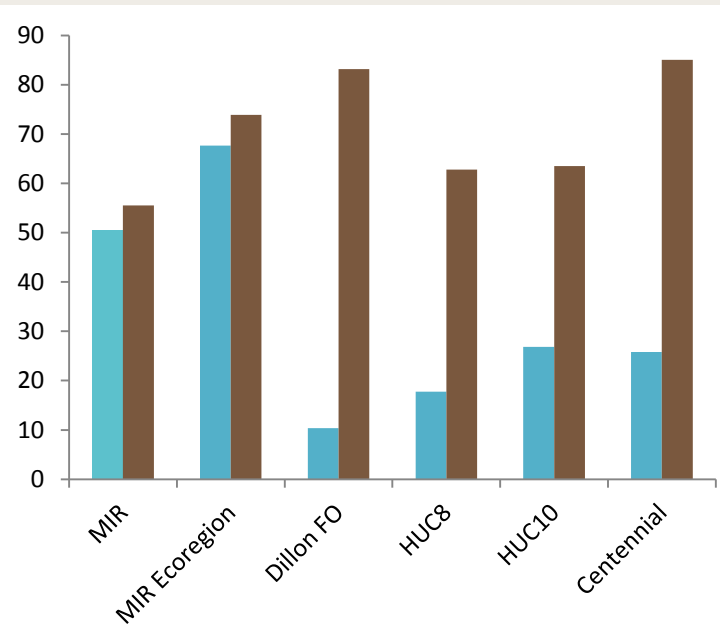
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Westslope Cutthroat and Yellowstone Cutthroat Trout Distributions

Middle Rockies REA and Ecoregion

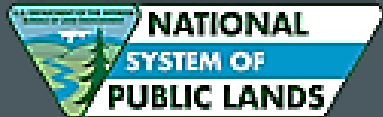
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Trout stream distribution density
(length (m)/area (km²))



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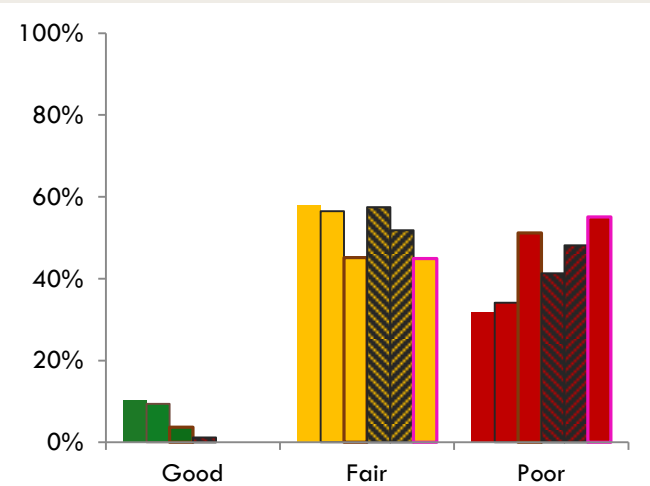
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Current Rating by HUC 12

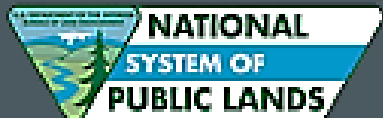
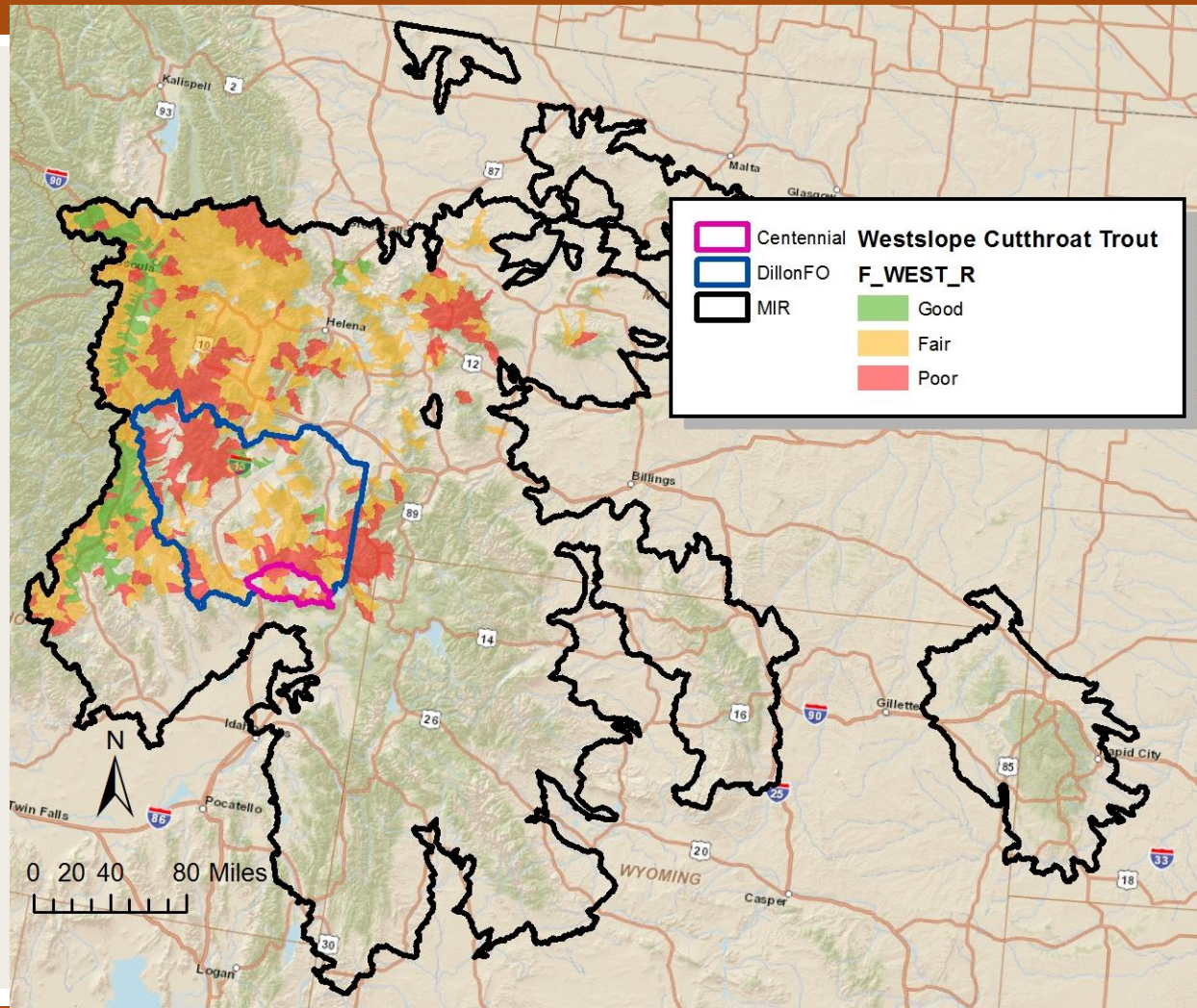
Westslope Cutthroat Trout

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Percent of rated area



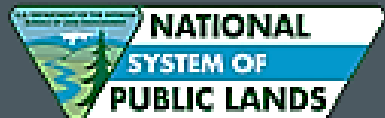
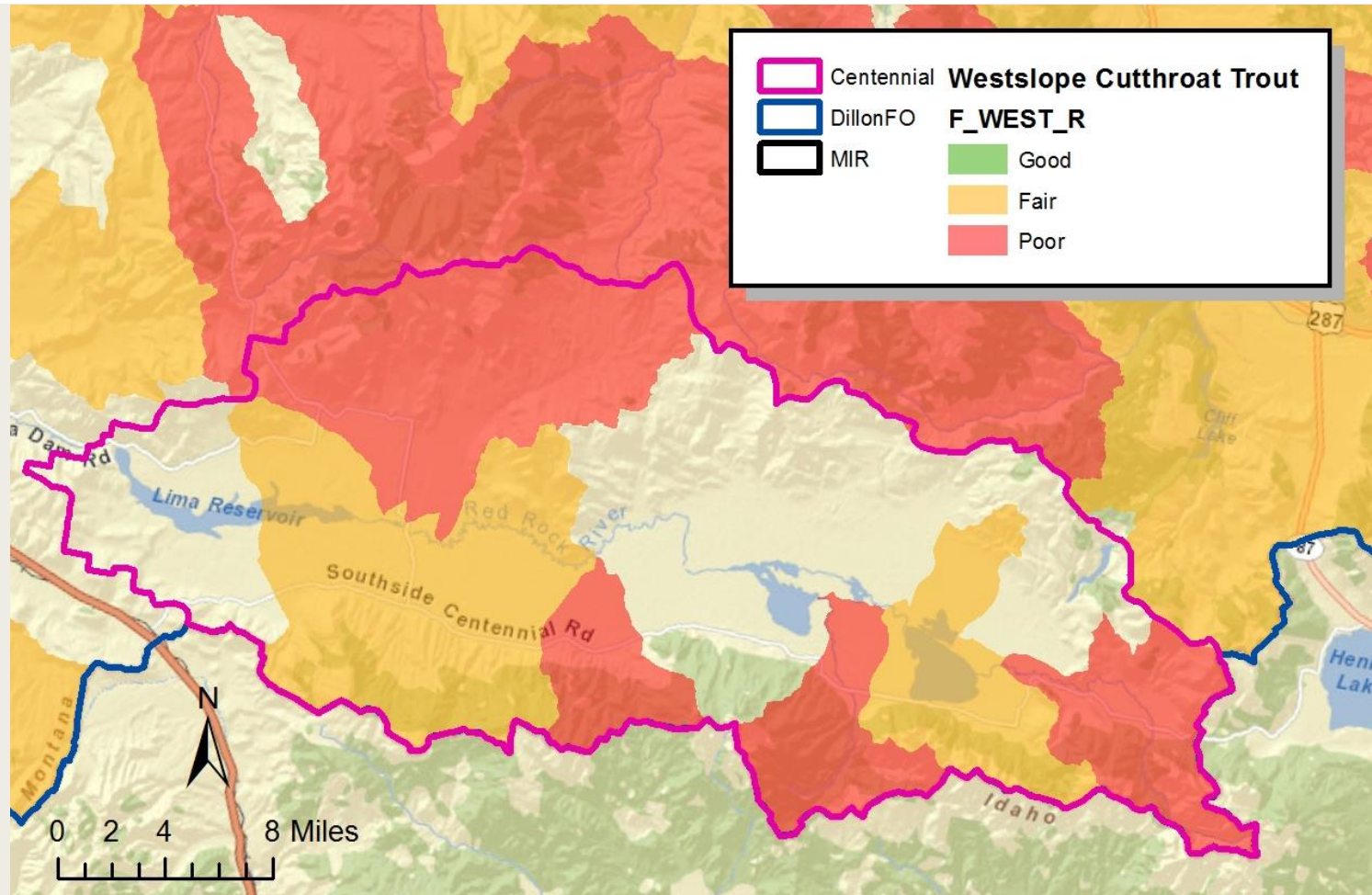
- MIR REA
- MIR Ecoregion
- Dillon FO
- HUC 8
- HUC 10
- Centennial



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Current Rating – Westslope Cutthroat Trout Centennial Watershed Assessment Area

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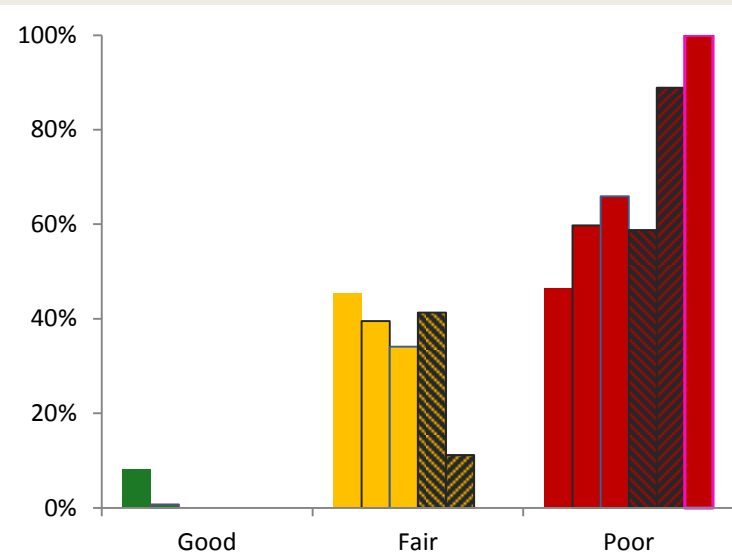


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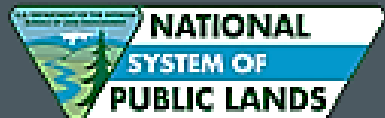
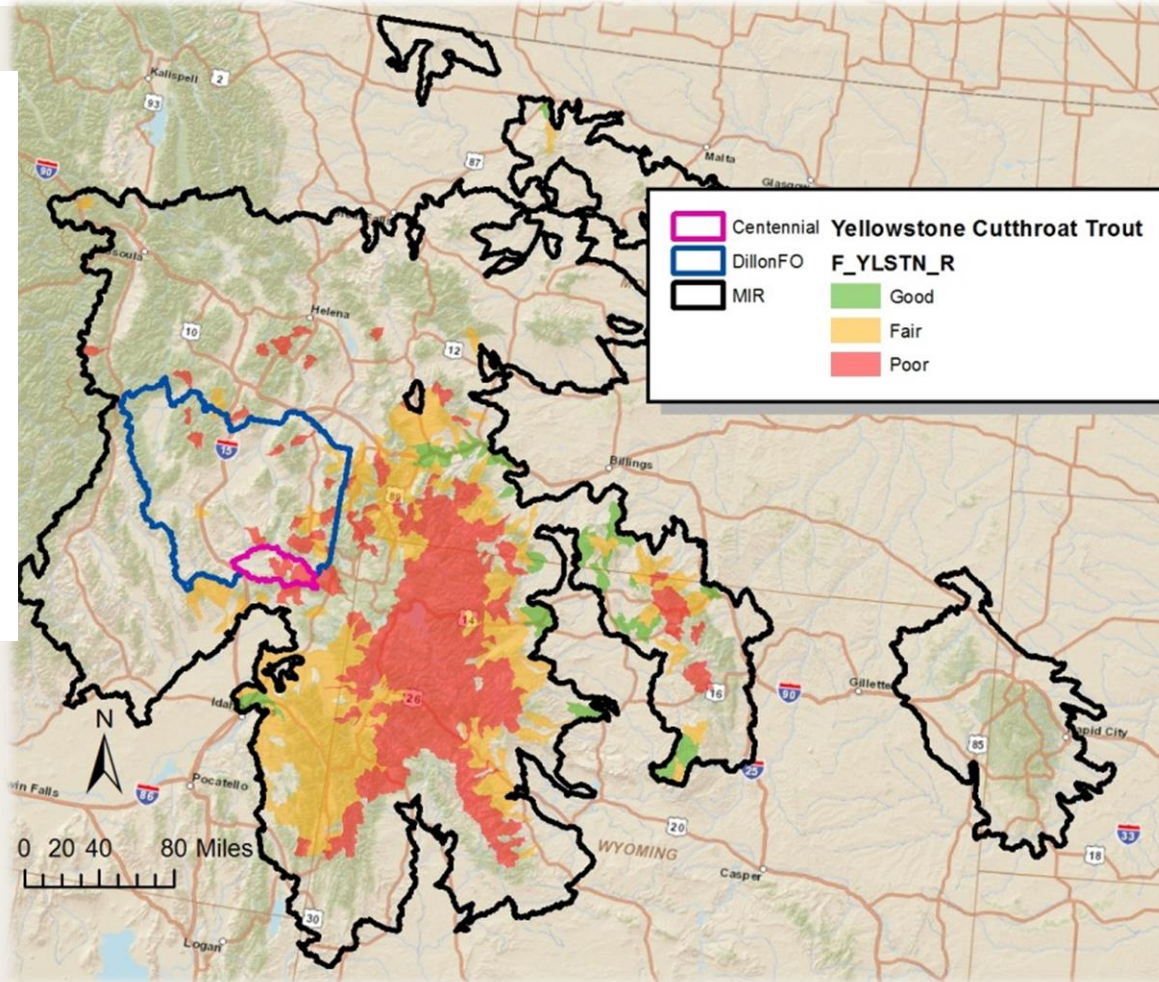
Current Rating by HUC 12 Yellowstone Cutthroat Trout

8

Percent of rated area



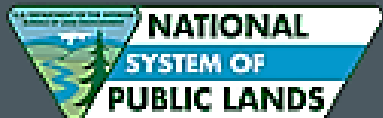
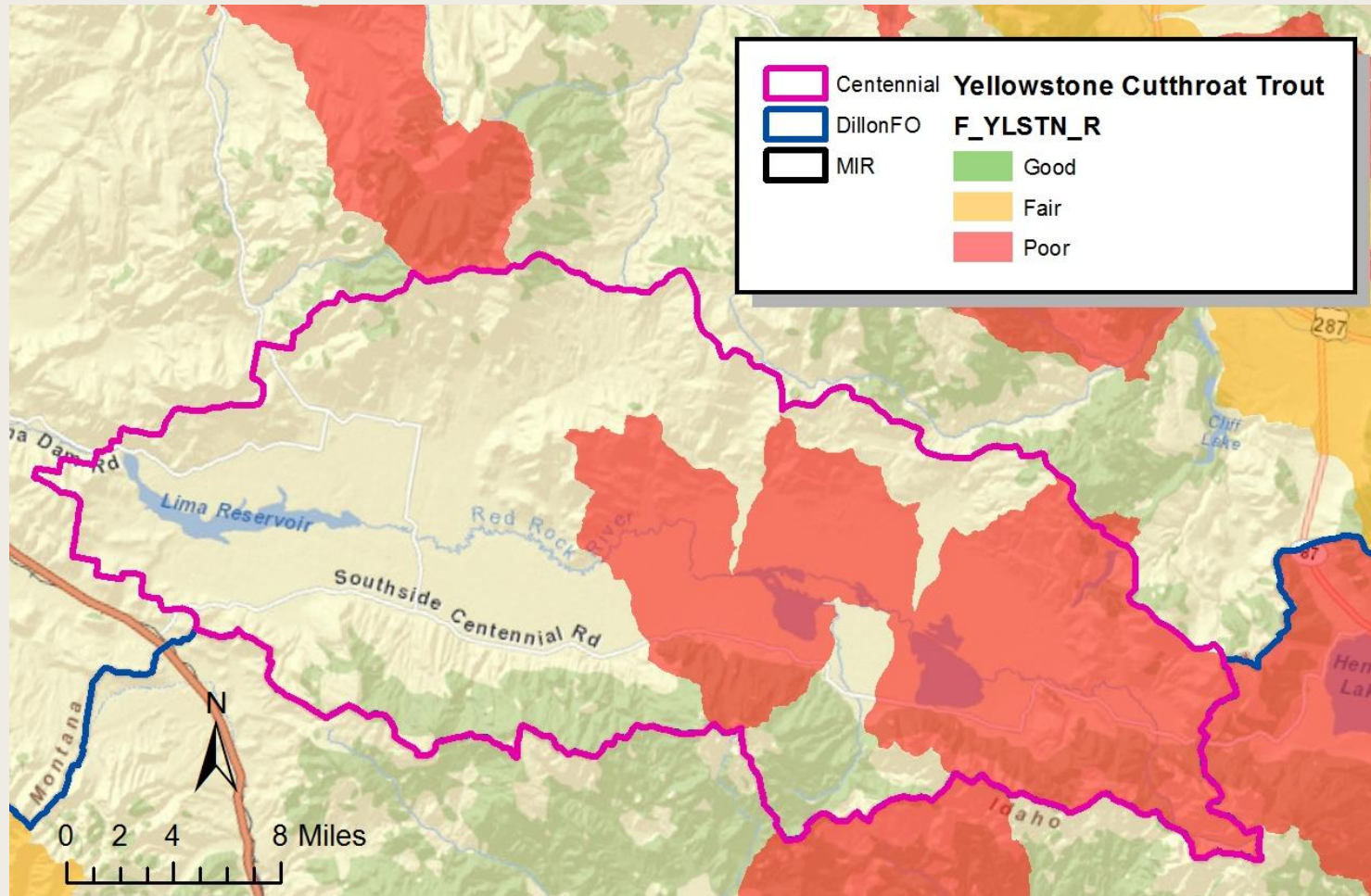
- MIR REA
- MIR Ecoregion
- Dillon FO
- HUC 8
- HUC 10
- Centennial



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Current Rating – Yellowstone Cutthroat Trout Centennial Watershed Assessment Area

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