

U.S. Department of the Interior
Bureau of Reclamation

RED RIVER VALLEY WATER SUPPLY PROJECT

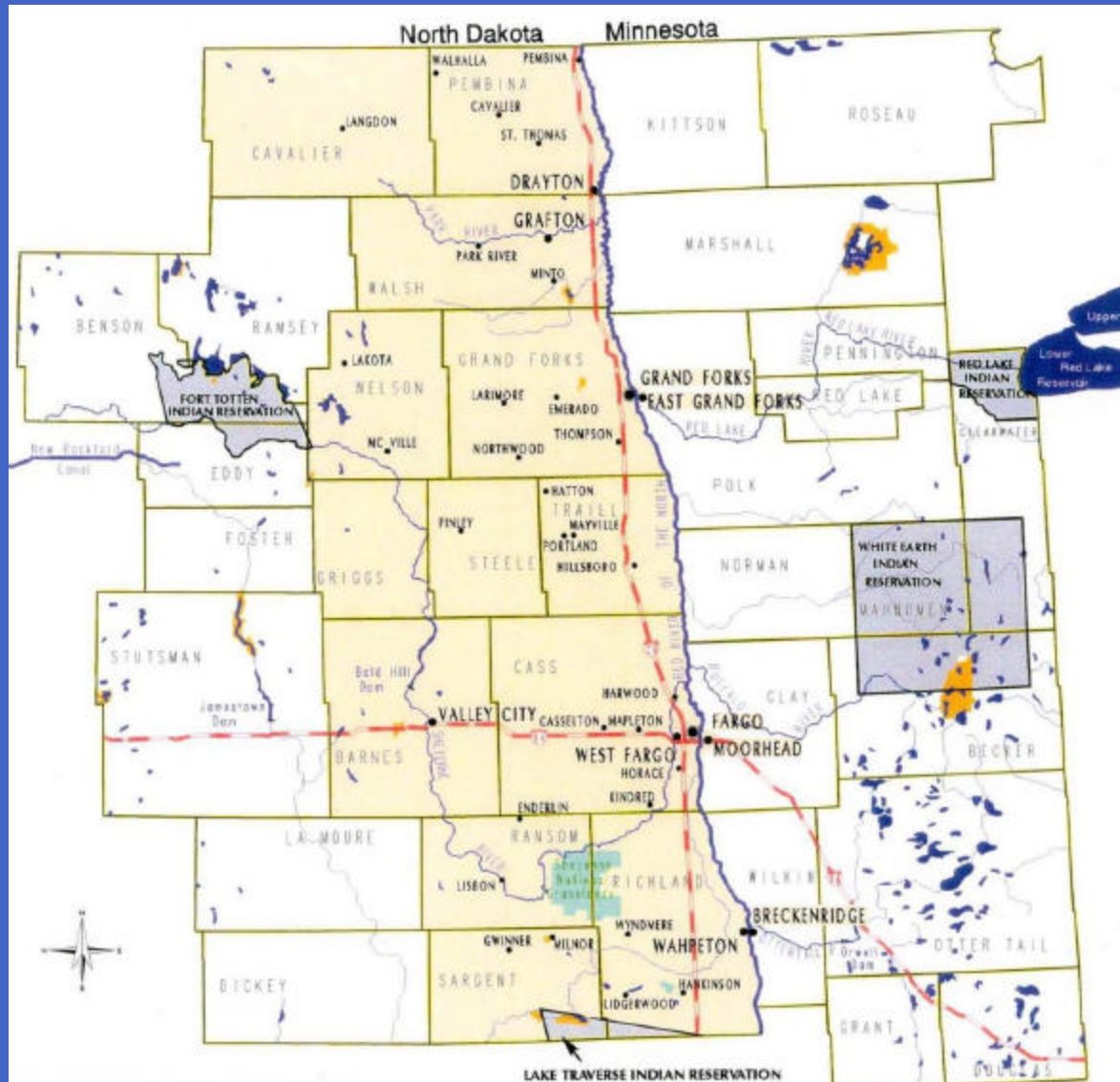
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Managing Water in the West

PURPOSE OF THE PROJECT

- To meet the comprehensive water quality and quantity needs of the Red River Valley in North Dakota.

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Service Area



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Section 8 Dakota Water Resources Act



REPORTS

- Needs & Options Report
- Environmental Impact Statement

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Needs Assessment Analyses

- MR&I Water
 - Municipal
 - Rural
 - Industrial
- Aquatic Environment
- Recreation
- Water Quality
- Water Conservation

MR&I Needs Assessment Analyses

- **Population Projection** – estimates population in the valley in 2050. Completed.
- **Per Capita Water Demand Analysis** – estimates per capita water demands per water system. In progress.
- **Future Water Demand** – estimates future water demands of municipal and rural water systems. In progress.
- **Industrial Water Needs Report** – projects locations and water demands of current and future industries. In progress.
- **Water System Assessments** – summarizes current water systems and identifies specific water quality and quantity deficiencies. Completed.

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Aquatic Environment Needs Assessment Analyses

- **Flows for Aquatic Life and Riparian Maintenance** - determines aquatic flow needs of the Sheyenne and Red Rivers in North Dakota. Completed.
- **Water Quality** – characterizes present water quality in the Red River Valley and identifies opportunities for improvement. In progress.

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Recreation Needs Assessment Analyses

- Identifies consumptive and non-consumptive recreational water needs of the Red River Valley in North Dakota. Completed.

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Water Quality Needs Assessment Analyses

- **Regulatory Overview of Safe Drinking Water Act** – provides an overview of the present and foreseeable future water drinking water quality requirements. Completed.
- **Water Quality Model** – assesses the effects of the proposed water supply alternatives on water quality in the Red River using the Corps of Engineers' model. In progress.
- **Water Quality Trends Analysis** - uses historic data to predict future water quality constituents in the Sheyenne and Red Rivers. In progress.

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Water Conservation Needs Assessment Analyses

- **Water Conservation Potential Assessment** – evaluates potential water conservation measures and identifies reasonable and achievable water reduction activities for the Red River Valley Water Supply Project. In progress.

What's Next?

- Complete MRI Needs Assessment Analyses
 - Industrial Needs
 - Per Capita Water Demand
 - Future Water Demand
- Complete groundwater analysis.
- Complete surface water modeling of the seven alternatives.
- Design alternatives based on surface modeling results and groundwater analysis.
- Write Draft Needs and Options Report.

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Environmental Impact Statement

- The EIS will evaluate the environmental impacts of alternative ways to meet the comprehensive water quality and quantity needs of the Red River Valley in North Dakota.
- The draft EIS will be completed by December 2005.

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Alternatives

- **No Action** – the future without the project.
- **North Dakota In-Basin** – would use water sources from the Red River Basin in North Dakota to meet shortages.
- **Red River Basin** – would use water sources in Minnesota and North Dakota to meet shortages.
- **Missouri River to Red River Valley Import** – would use a pipeline from the Missouri River near Bismarck to Fargo and Grand Forks to meet the shortages.
- **GDU Import to Sheyenne River** – would link the GDU Principal Supply Works to the Sheyenne River to meet the shortages.
- **GDU Import Pipeline** – would use the GDU Principal Supply Works and a pipeline to meet the shortages.
- **GDU Water Supply Replacement Pipeline** – would use the GDU Principal Supply Works and pipeline system to meet the full water needs of the Red River Valley.

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Conclusion

- **The Red River Project is on schedule:**
 - Final Needs and Options Report will be completed by November 30, 2005.
 - Draft EIS will be completed by December 31, 2005.
- **This success is due to:**
 - A productive and positive working relationship with EIS partner Garrison Diversion Conservancy District.
 - Excellent working relationships with local, state, and federal entities involved with the project.

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