

**FY-2002 PROPOSED SCOPE OF WORK for:**  
Tributary Water Demand Study

**Project No.:** \_\_\_\_

Lead Agency: To be determined  
Submitted by:  
Address:  
Phone:  
FAX:  
email:

Date: August 20, 2001

<u>Category:</u>	<u>Expected Funding Source:</u>
<input type="checkbox"/> Ongoing Project	<input type="checkbox"/> Annual Funds
<input type="checkbox"/> Ongoing-revised project	<input checked="" type="checkbox"/> Capital Funds
<input checked="" type="checkbox"/> Requested New Start	<input type="checkbox"/> Other (In-kind Services)

I. Title of Proposal:

Tributary Water Demand Study

II. Relationship to RIPRAP:

Green River Action Plan: White River  
I.A. Develop estimates of basin water needs

III. Study Background/Rationale and Hypotheses: NA

IV. Study Goals, Objectives, End Product:

The study will develop a projection of future (ca. 2050) depletions for all water use sectors in the White River Basin. This work element has been expanded to include demand projections for the Dolores River Basin and the “tributary” Green River between Flaming Gorge Dam and the Yampa River confluence for the same planning period. These projections will be used to develop a tributary management plan that will serve as the basis for a Programmatic Biological Opinion (PBO).

V. Study Area: White River Basin in NW Colorado and NE Utah; Dolores River Basin in SW Colorado and SE Utah; and Green River Basin in NE Utah, NW Colorado and SW Wyoming.

VI. Study Methods/Approach:

The study authors will utilize existing projections of future water use and population growth and standard water-use estimating procedures to synthesize estimates of water demand in the basins ca. 2050. Additional information on study methods and approach is contained in the description of tasks below.

VII. Task Description and Schedule:

- A. Identify date of baseline depletions in Colorado, using CDSS, to establish start of planning period
- B. Identify water-use sectors (agricultural, M&I, rural domestic, thermo-electric generation, mining, export, etc.)
- C. Identify, contact and visit (if needed) information sources, such as local/regional planners and demographers, Colorado League for Economic Assistance & Planning (LEAP: Regions 9, 10 & 11), Colorado Department of Local Affairs, Colorado Water Conservation Board, Colorado River Water Conservation District, Wyoming Division of Economic Analysis, Wyoming State Engineer's Office, Wyoming Water Development Commission, Ute Indian Tribe – Uintah & Ouray Reservation, Utah Division of Water Resources, and others.
- D. Estimate future depletions using a process which may involve the following steps:
  - 1. Use existing water use/diversion/consumptive use (CU) projections where available; extend those projections where necessary to cover the planning period.
  - 2. Extend population projections using the same or other growth rates (from state demographer's existing 25-year projections).
  - 3. Use population projections for other areas (rural areas) with standard/accepted water use estimating values to estimate depletions (e.g., domestic use at 100 gallons per capita per day, 30% CU for household use, etc.).
- E. Develop several growth scenarios, if stakeholders are not in agreement with the water use/population projections.
- F. Develop a *brief* report detailing sources of info, assumptions, estimating process, and findings.

VIII. FY-2002 Work:

Deliverables/Due Dates: Final report by September 30, 2002  
FY 2002 Budget: \$20,000

IX. Budget Summary:

FY 2002:	\$20,000
FY 2003:	<u>          —          </u>
	\$20,000

X. Reviewers: NA

XI. References: NA