

**Summary Results - Water Needs Assessment  
Yakima River Basin Study (Task 2)  
July 20, 2010**

**I. Federally-Supplied Agriculture**

Total diversions averaged approximately 1.8 million acre-feet during the years 1990-2009 (counting only non-drought years).

**Non-Proratable Districts' Needs:** No additional water needed under current conditions.

**Proratable Districts' Needs for Additional Supply, Current Conditions (Drought Years):**

|                                      |                   |
|--------------------------------------|-------------------|
| Kittitas Reclamation District (KRD): | 117,500 AF        |
| Roza Irrigation District (Roza):     | 99,500            |
| Wapato Irrigation Project (WIP):     | <u>115,500</u>    |
| <b>Subtotal</b>                      | <b>332,500</b>    |
| Less Increase in KRD Return Flows:   | <u>-59,000</u>    |
| <b>Adjusted Total:</b>               | <b>273,500 AF</b> |

For future conditions, information still needs to be developed on climate change, changes in crop mixes, land conversion to urban uses, and water conservation effects.

**II. Non-Federally Supplied Agriculture**

Total water uses (current) are estimated to be 590,000 acre-feet per year. The water needs assessment does not define a supply deficiency. This is because the Integrated Plan has not identified an objective of providing additional supplies in this category.

Virtually all of the ground water rights and many of the surface water rights in this category are “junior” to the surface water rights for the Yakima Project (federal system). When water shortages occur, the federally-supplied lands have priority for water supply over many of the non-federally supplied lands.

**III. Municipal/Domestic Water Uses  
(Non-Drought Conditions; Drought Uses Depend on Curtailment Policies)**

|  |                 |                  |                  |
|--|-----------------|------------------|------------------|
| Current use (estimated):                             | 91,000 AF       |                  |                  |
| Current consumptive <sup>1</sup> use (estimated)     | 36,400 AF       |                  |                  |
|  |                 | <u>Low</u>       | <u>Medium</u>    |
| Projected additional use by 2060:                    | 46,000 AF       | 72,000 AF        | 102,000 AF       |
| <b>Projected additional consumptive use by 2060:</b> | <b>8,100 AF</b> | <b>16,700 AF</b> | <b>26,500 AF</b> |

**IV. Other Uses**

|                                     |           |
|-------------------------------------|-----------|
| Current use (estimated):            | 26,000 AF |
| Current consumptive use (estimated) | 13,000 AF |

Future changes in this category were not assessed; and do not appear necessary to permit the Workgroup to develop recommendations for the Integrated Plan.

---

<sup>1</sup> Consumptive use: the portion of water diverted or pumped that does not return to the Yakima River or to ground water aquifers.