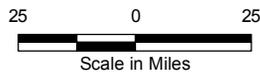


Notes:
* See Tables 4-5, 4-7, and 4-11.

LEGEND

- Potential Storage Option
- River
- County Boundary
- AFY:** Acre-Feet per Year



Map Projection:
UTM Zone 11, NAD 83

Source: Ecology, OWRD

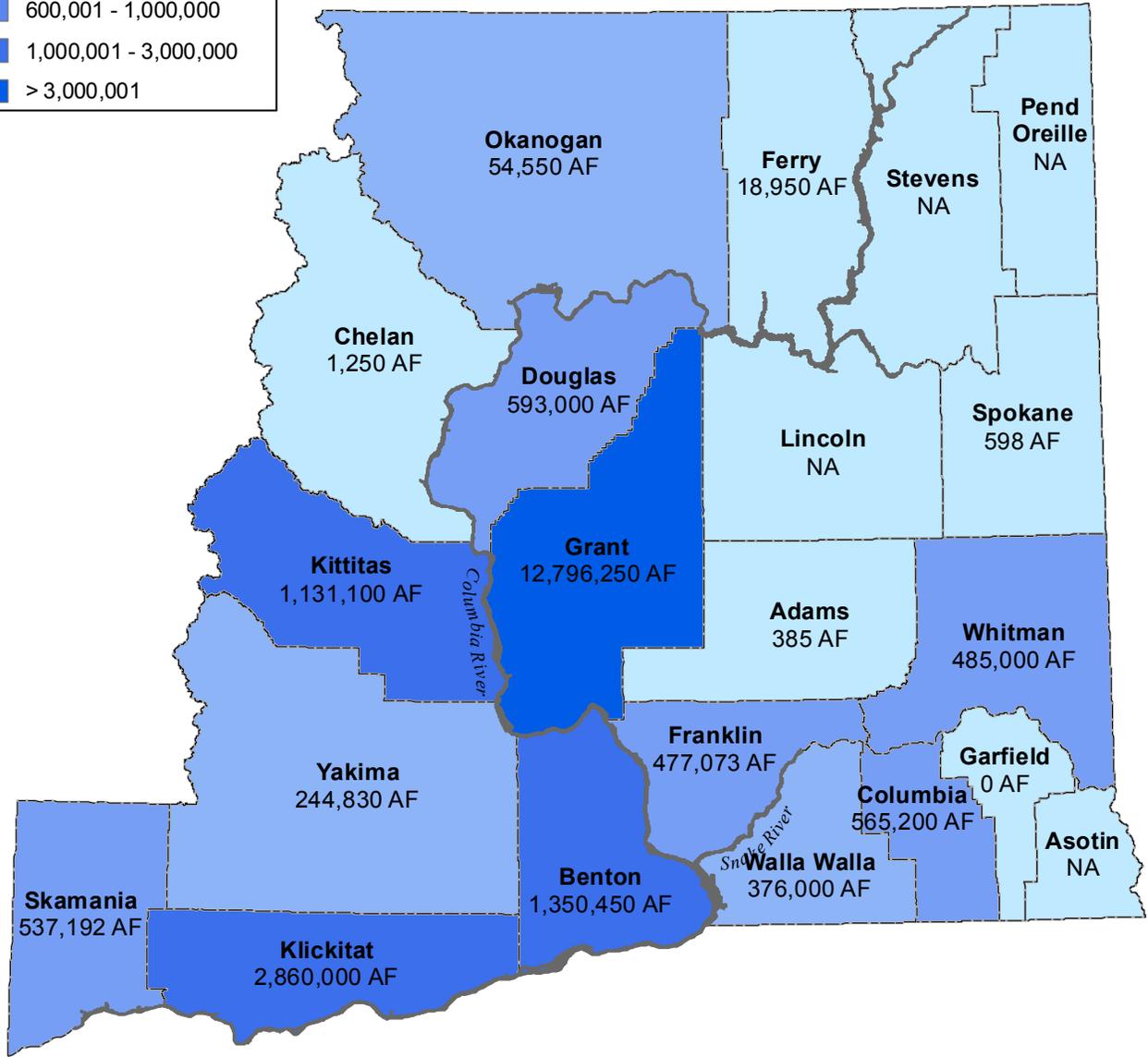
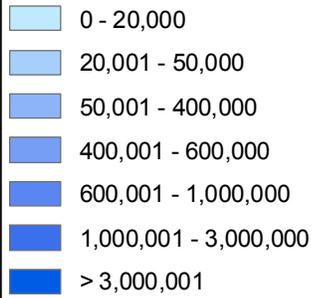
This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

FIGURE 4-1
CONSERVATION AND STORAGE INVENTORY RESULTS

WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

Golder Associates

Maximum Storage (Acre Feet)



Note:
 * See table 4-9 for more detail.
 * Total storage includes storage for irrigation, water supply, hydropower and other uses.

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

LEGEND

- River
- County Boundary
- AF:** Acre-Feet



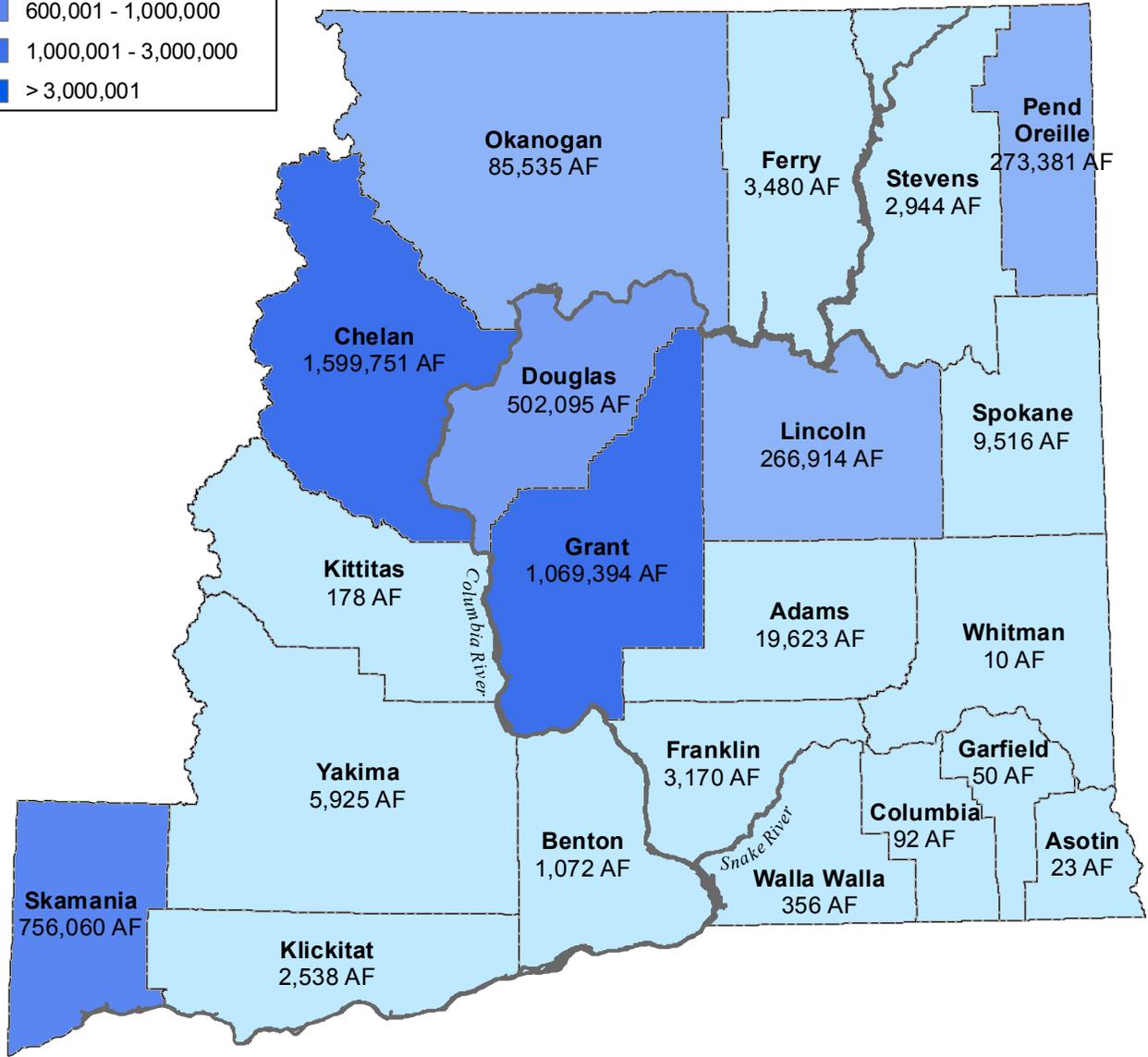
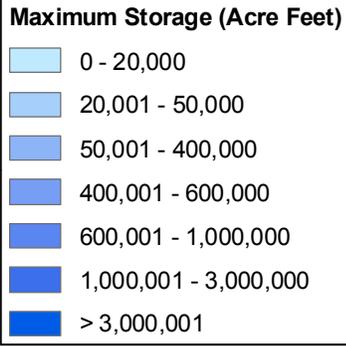
Map Projection:
 UTM Zone 11, NAD 83

Source: WSDOE, USGS



FIGURE 4-2
TOTAL FEDERAL DAM
STORAGE BY COUNTY

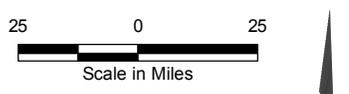
WSDOE/COLUMBIA BASIN WATER SPPLY/WA



Note:
 * See table 4-10 for more detail.
 * Total storage includes storage for irrigation, water supply, hydropower and other uses.

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

LEGEND
 ~ River
 □ County Boundary
AF: Acre-Feet



Map Projection:
 UTM Zone 11, NAD 83
 Source: WSDOE, USGS

FIGURE 4-3
TOTAL NON-FEDERAL DAM STORAGE BY COUNTY
 WSDOE/COLUMBIA BASIN WATER SPPLY/WA

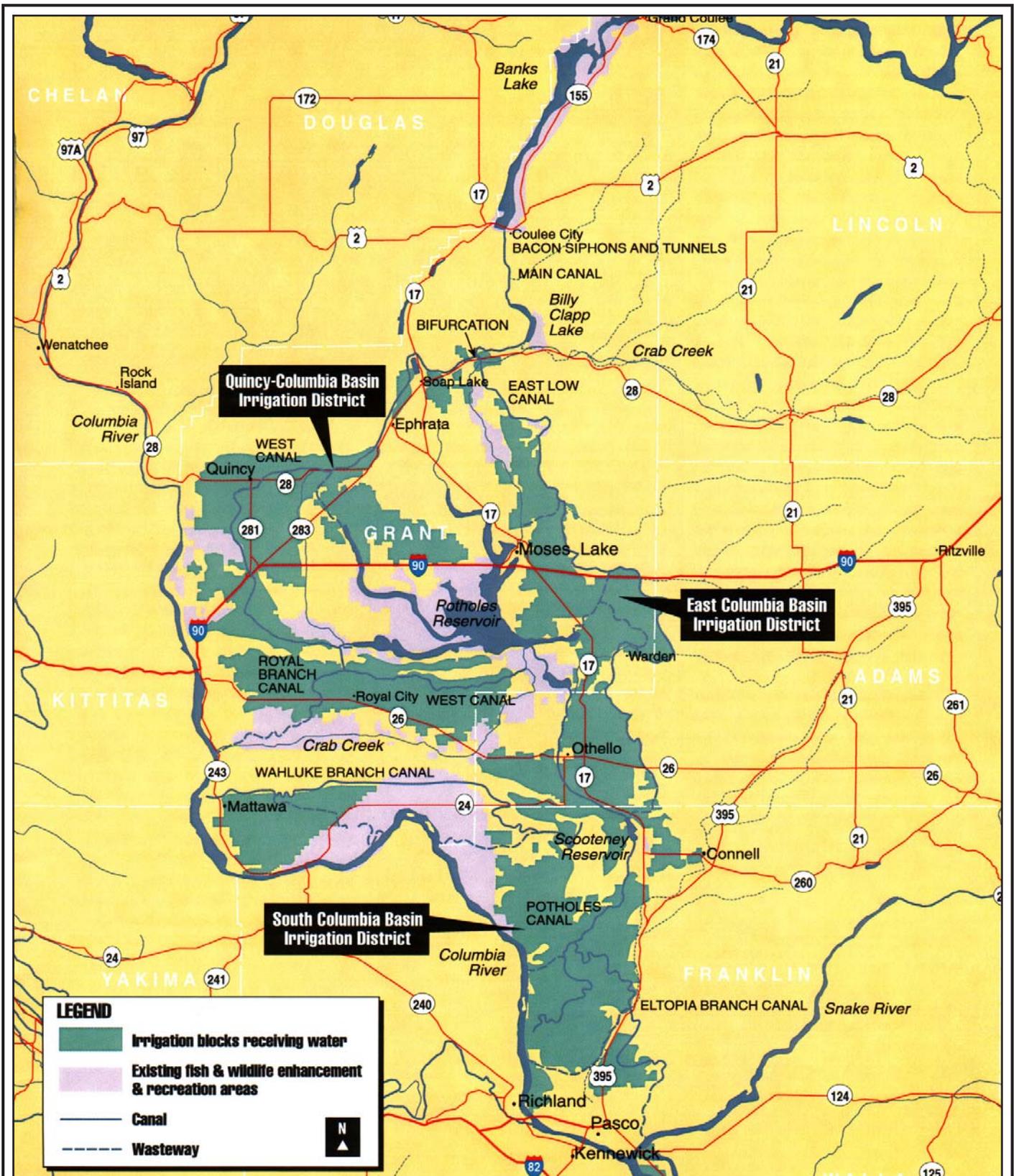
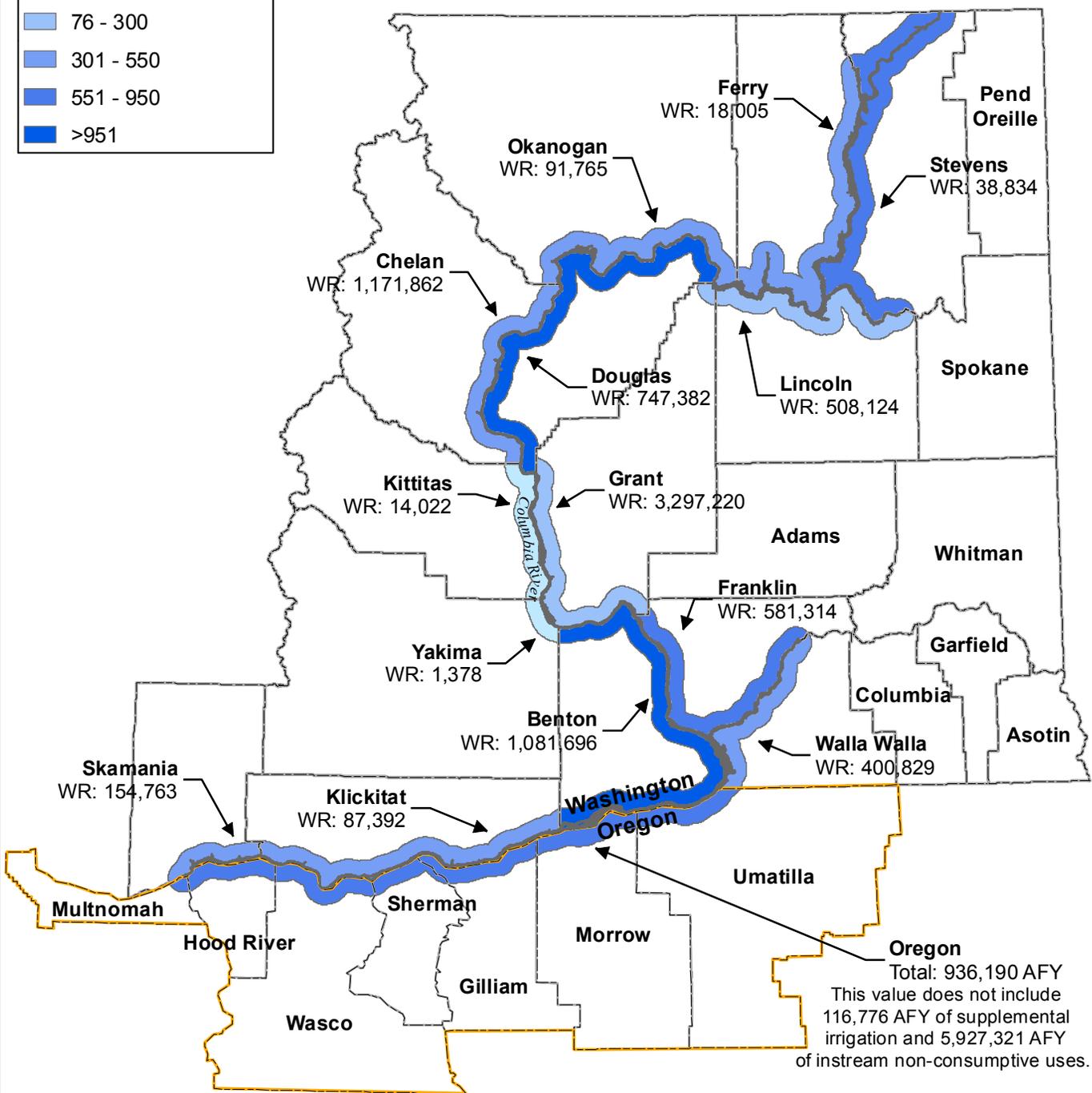
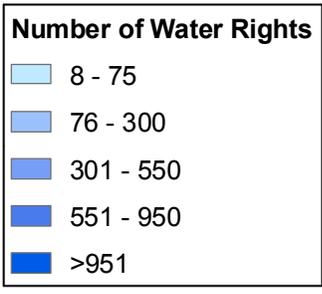


FIGURE 4-4
MAP OF COLUMBIA BASIN PROJECT
 WSDOE/COLUMBIA BASIN WATER SPPLY/WA

Source: Montgomery Water Group, 2006

013150007001fig01.fh11 | Mod: 10/06/06 | AMP

Golder Associates

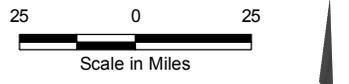


Washington Oregon
 Total: 936,190 AFY
 This value does not include 116,776 AFY of supplemental irrigation and 5,927,321 AFY of instream non-consumptive uses.

Notes:
 * See Tables 4-14, and 4-15 for additional details.
 Reference: Washington State Water Rights Tracking System. Excerpt of water rights and water right application within the 1-mile management zone. Provided by Ecology August 2, 2006.
 Reference: Oregon State Water Rights Information System (WRIS). Excerpt of water rights and water right application within the 1-mile management zone. Provided by OWRD September 14, 2006.

LEGEND

- River
- County Boundary
- AFY:** Acre-Feet per Year
- WR:** Water Rights (AFY)

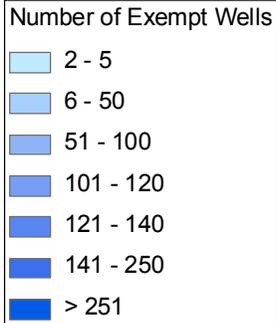


Map Projection:
 UTM Zone 11, NAD 83

Source: Ecology, OWRD

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

FIGURE 4-5
TOTAL WATER RIGHTS IN THE MANAGEMENT ZONE
 WSDOE/COLUMBIA BASIN WATER SPPLY/WA



Notes:
 * See table 4-17 for more detail.
 * There are 1,807 permit-exempt wells in the Management Zone.
 * The legal water use limit for a permit-exempt well is 5,000 gpd.
 However, actual use varies according to purpose of use.
 Reference: Ecology, personal communication, 2006

LEGEND

□ County Boundary



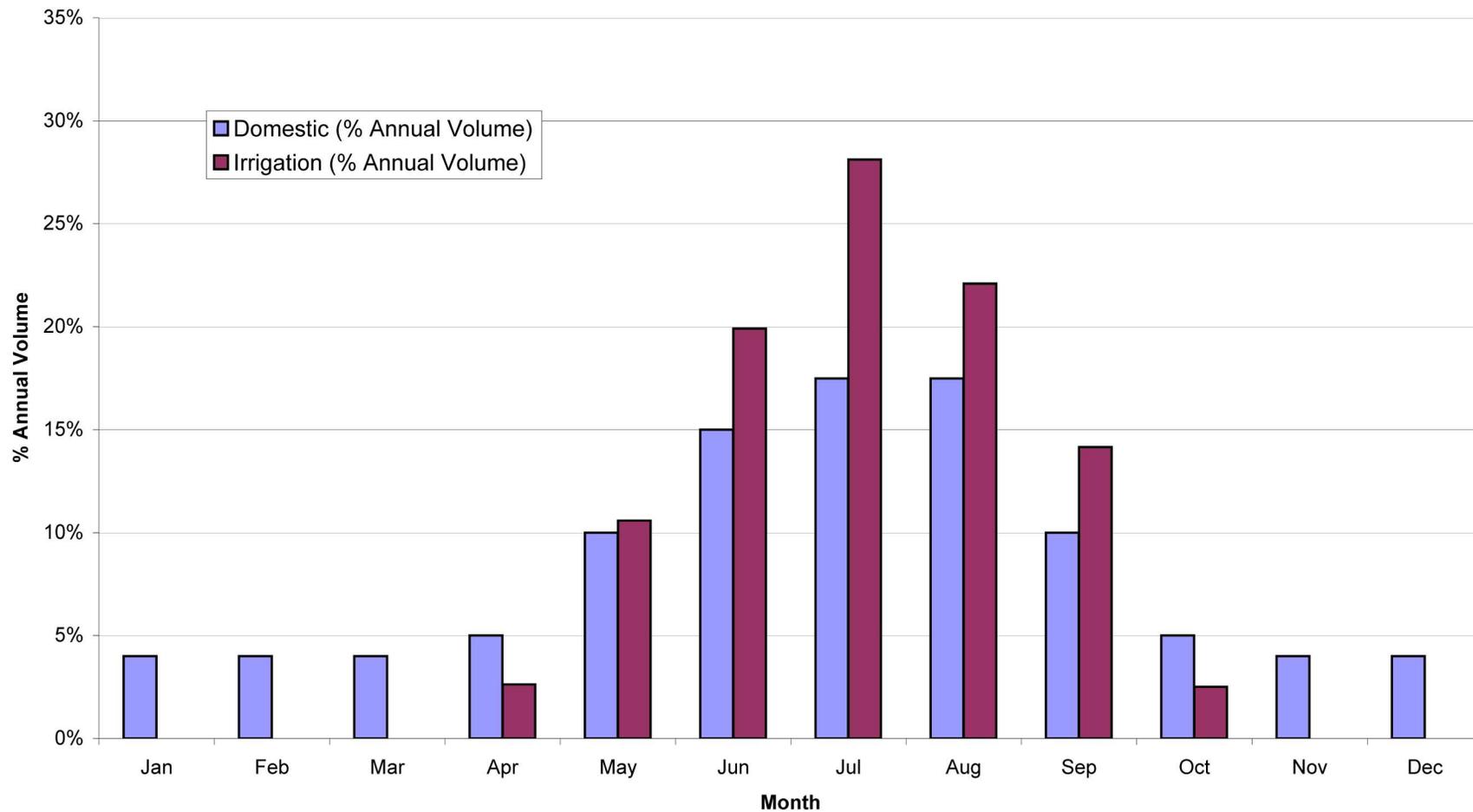
Map Projection:
 UTM Zone 11, NAD 83

Source: WSDOE



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FIGURE 4-6
ESTIMATE OF PERMIT-EXEMPT WELLS IN THE MANAGEMENT ZONE
 WSDOE/COLUMBIA BASIN WATER SPPLY/WA

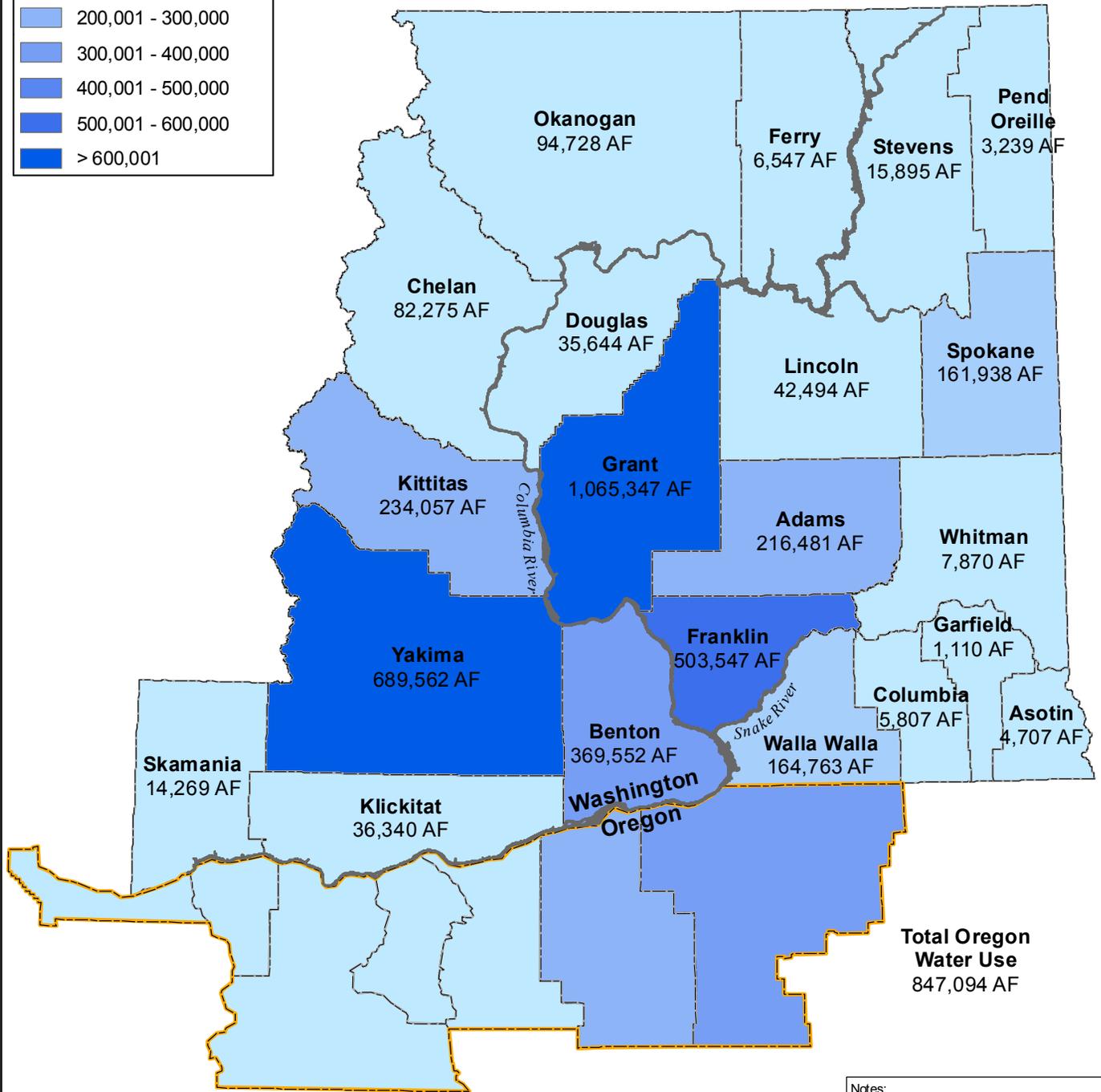
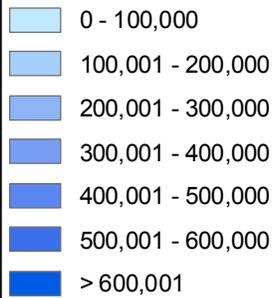


NOTES:

1. The figure shows approximate proportion of annual water volume that is typically used for different purposes of use.
2. Irrigation distribution based on typical crop irrigation requirement for alfalfa in Eastern Washington (WSU Irrigation Guide, 1989)

FIGURE **4-7**
SHAPE FACTORS
 WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

Total Water Use (Acre-Feet)



Notes:
 * See table 4-18 for more detail.
 * Oregon reflects the water use in Oregon counties along the mainstem.
 (Gilliam, Hood River, Morrow, Multnomah, Sherman, Umatilla, Wasco).
 References: Lane, 2004; USGS, 2004.

LEGEND

- River
- County Boundary
- Oregon County Boundary



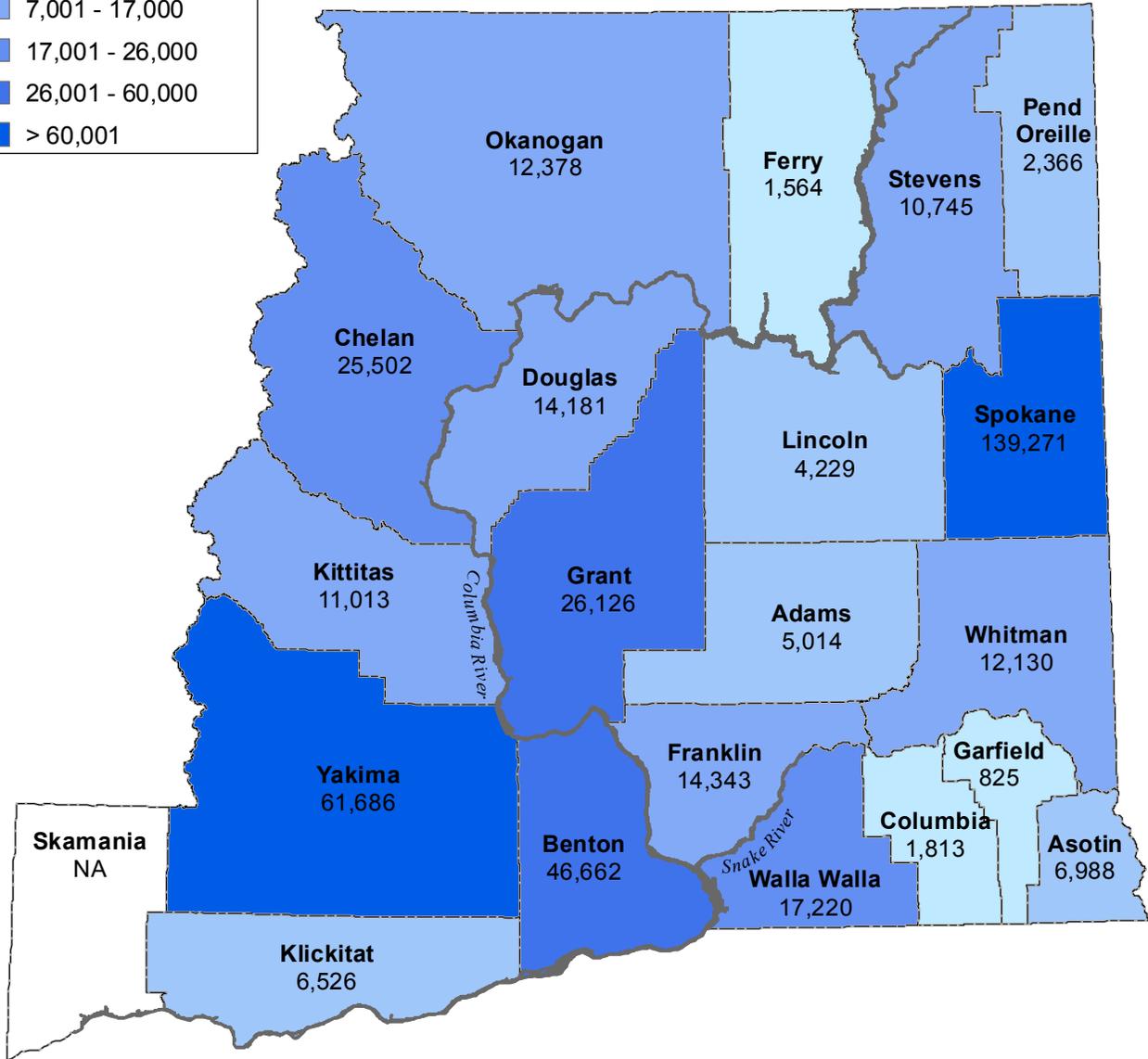
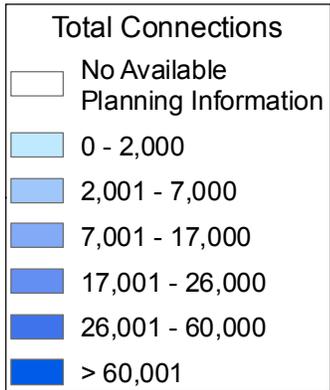
Map Projection:
 UTM Zone 11, NAD 83

Source: WSDOE, USGS

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

FIGURE 4-8
YEAR 2000 USGS TOTAL
WATER USE ESTIMATES
BY COUNTY

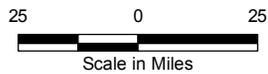
WSDOE/COLUMBIA BASIN WATER SPPLY/WA



Note:
* See table 4-21 for more detail.

LEGEND

- River
- County Boundary



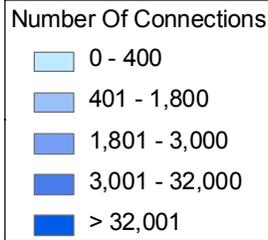
Map Projection:
UTM Zone 11, NAD 83

Source: WSDOE, USGS



This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

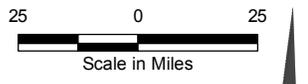
FIGURE 4-9
TOTAL NUMBER OF GROUP A AND GROUP B WATER SYSTEM CONNECTIONS
WSDOE/COLUMBIA BASIN WATER SPPLY/WA



Notes: See Table 4-22 for more detail.
 Management zone exaggerated 3x actual size.

LEGEND

- River
- County Boundary



Map Projection:
 UTM Zone 11, NAD 83

Source: WSDOE, USGS

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

FIGURE 4-10
TOTAL NUMBER OF GROUP A AND GROUP B WATER SYSTEM CONNECTIONS WITHIN THE MANAGEMENT ZONE
 WSDOE/COLUMBIA BASIN WATER SPPLY/WA