

Note:
 * Management zone exaggerated 3x actual size.
 * Each pool corresponds to the reach of the Columbia River between two dams, except Hanford.

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

LEGEND

- Dam
- County Boundary
- WRIA Boundary
- Pool Reach



Map Projection:
 UTM Zone 11, NAD 83

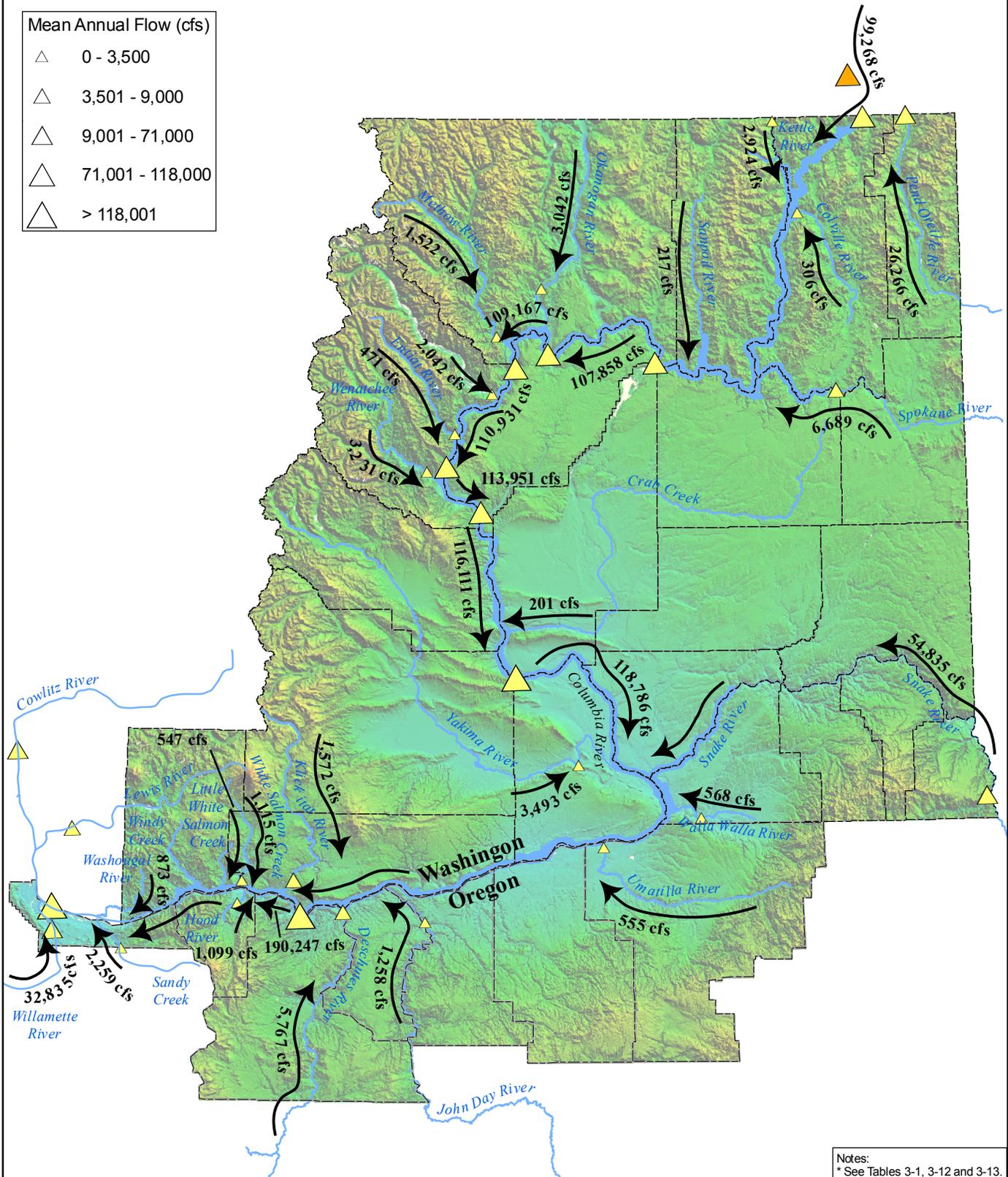
Source: WSDOE



FIGURE 3-1
MANAGEMENT UNITS
OF THE
COLUMBIA RIVER

WSDOE/COLUMBIA BASIN WATER SPPLY/WA

Mean Annual Flow (cfs)	
△	0 - 3,500
△	3,501 - 9,000
△	9,001 - 71,000
△	71,001 - 118,000
△	> 118,001



Notes:
* See Tables 3-1, 3-12 and 3-13.

LEGEND

- ▲ Environment Canada Gage
- ▲ USGS Gage
- ~ River
- County Boundary
- Mean Annual Flow



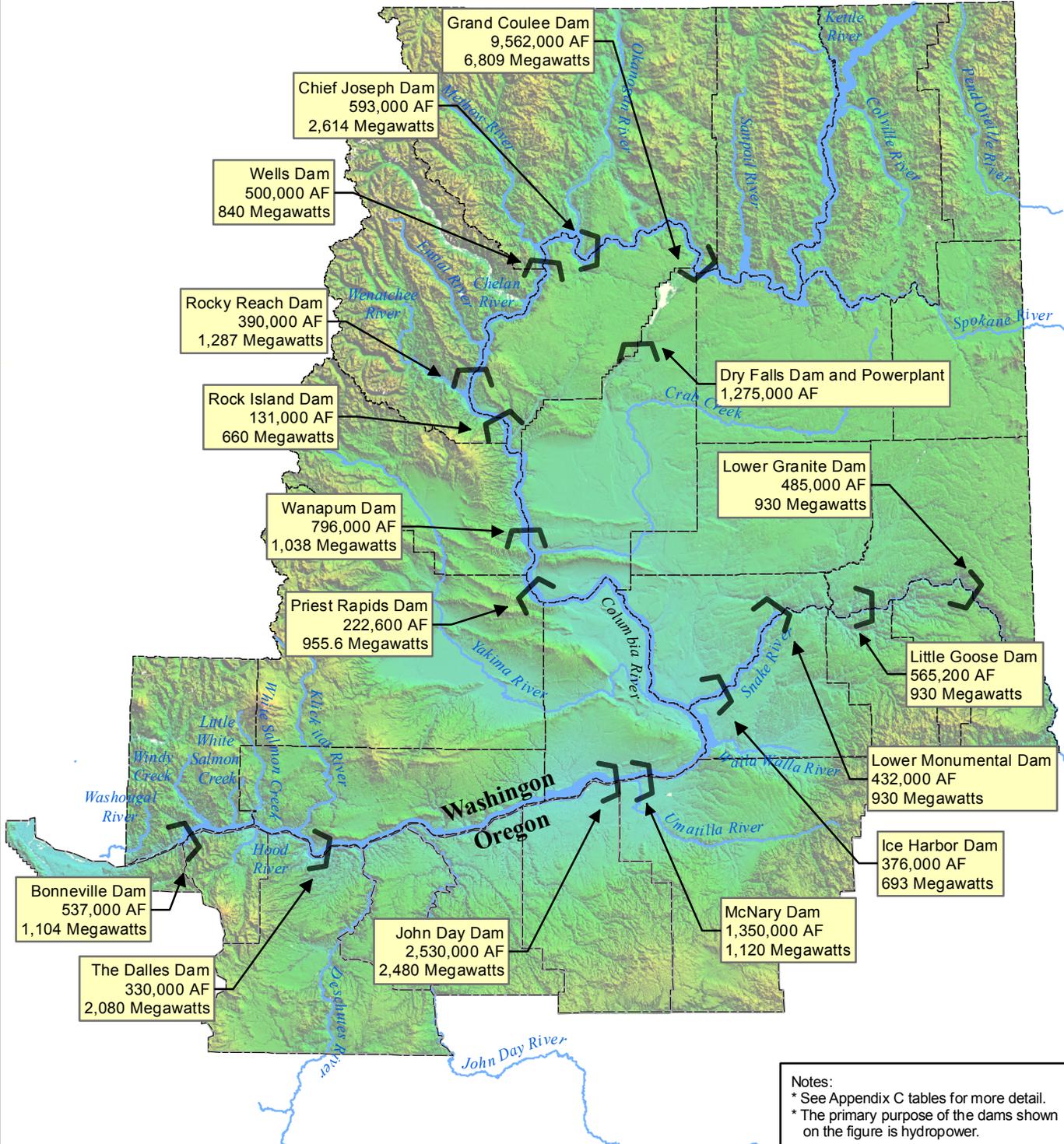
Map Projection:
UTM Zone 11, NAD 83

Source: WSDOE



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

FIGURE 3-2
COLUMBIA BASIN FLOWS
WSDOE/COLUMBIA BASIN WATER SPPLY/WA



Notes:
 * See Appendix C tables for more detail.
 * The primary purpose of the dams shown on the figure is hydropower.

LEGEND
 Dam
 River
 County Boundary

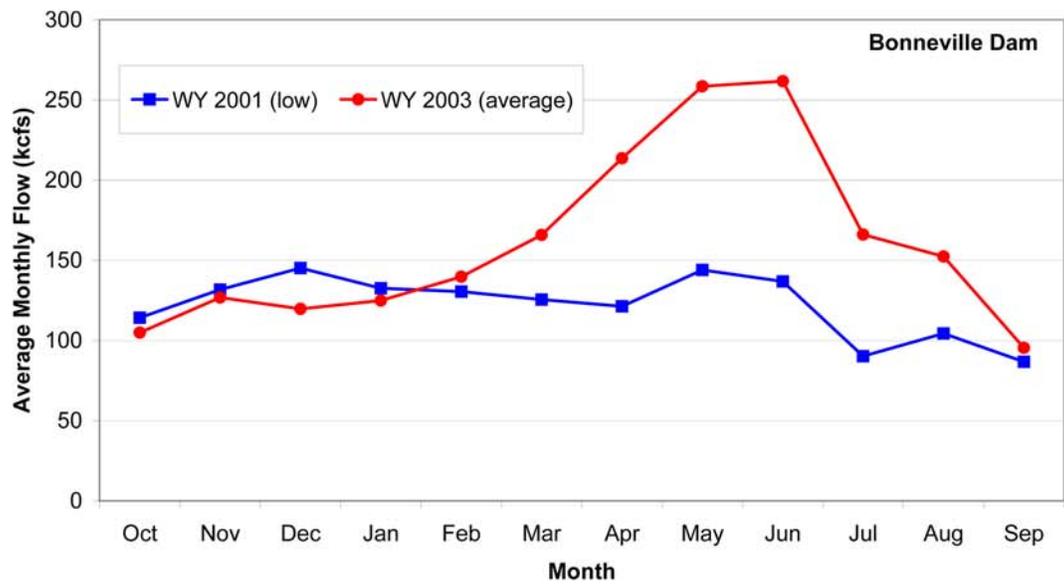
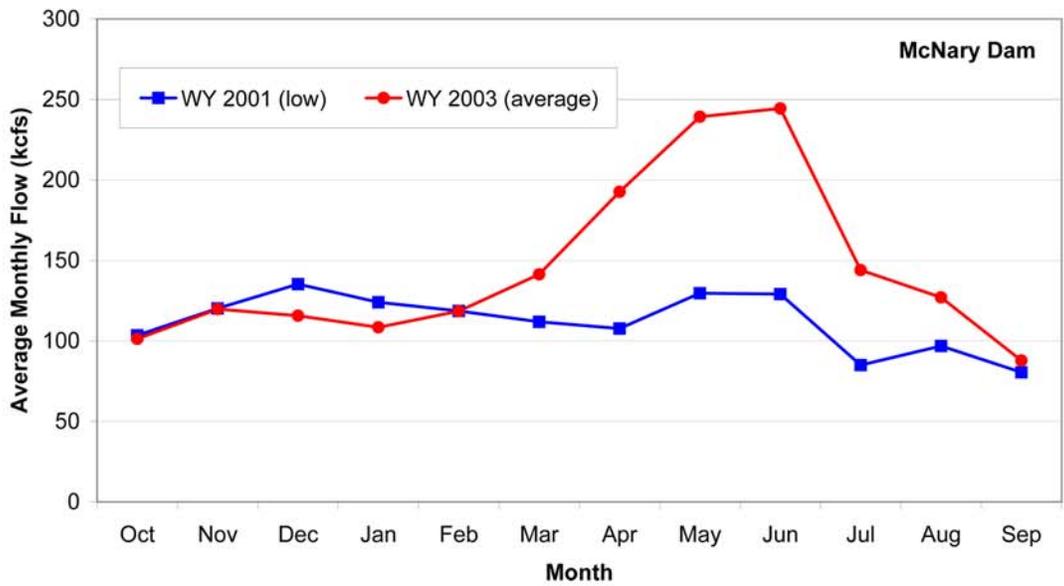
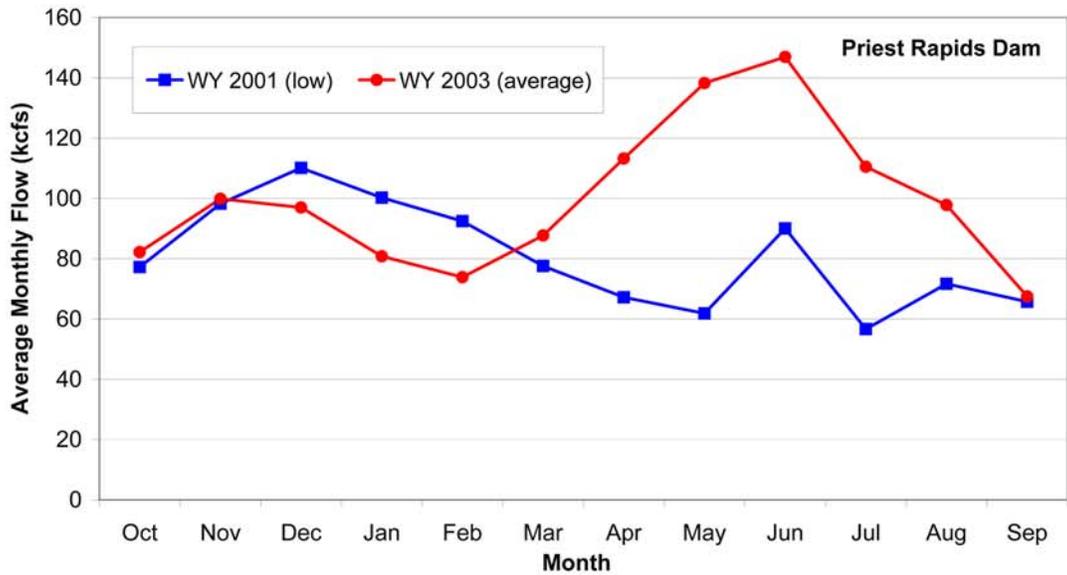
25 0 25
 Scale in Miles

Map Projection:
 UTM Zone 11, NAD 83

Source: WSDOE

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

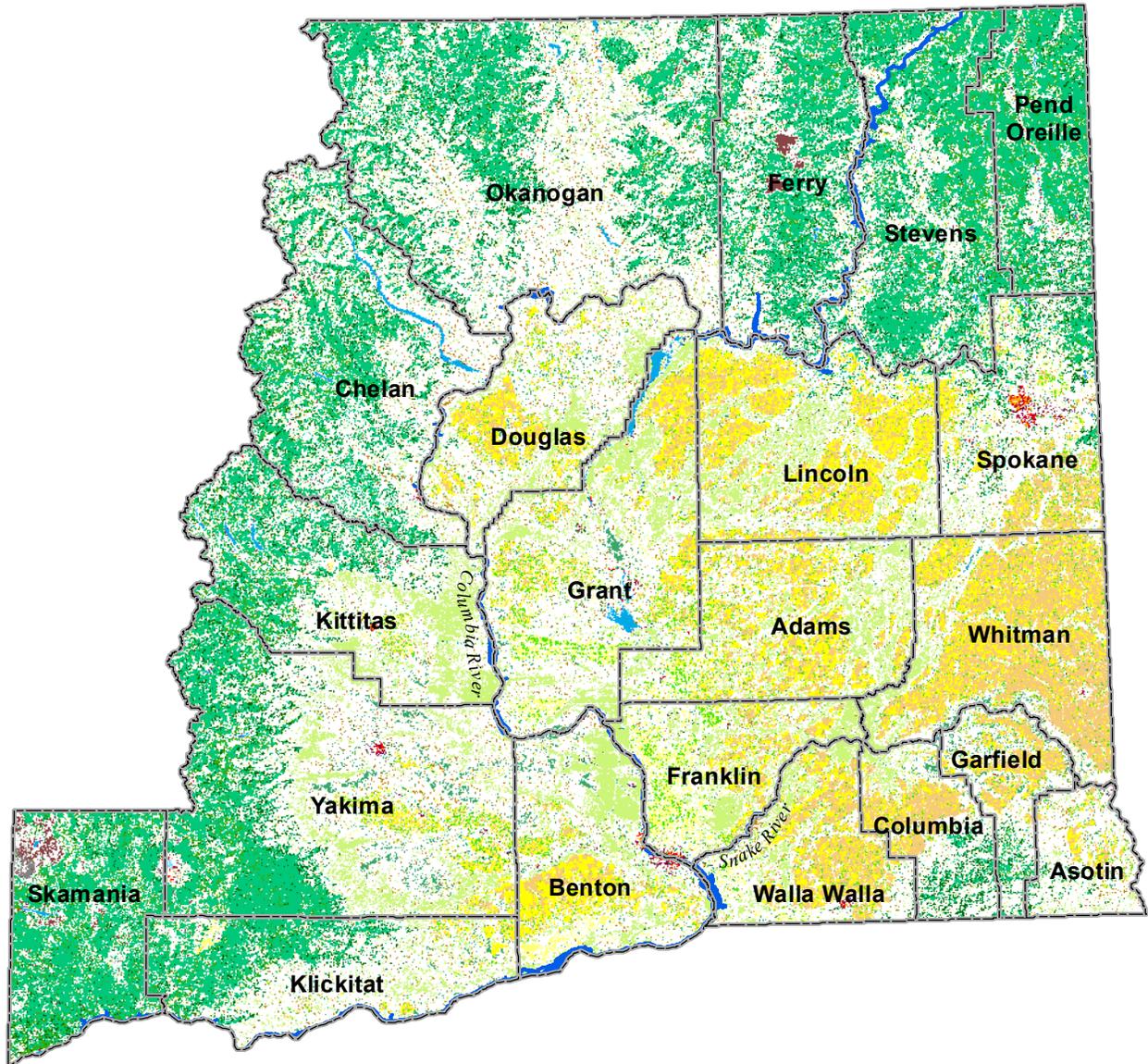
FIGURE 3-3
COLUMBIA RIVER LARGE
HYDROPOWER DAMS
 WSDOE/COLUMBIA BASIN WATER SPPLY/WA



NOTES

KCFS Thousand Cubic Feet Per Second
 WY Water Year (October to September)

FIGURE 3-4
AVERAGE MONTHLY OUTFLOW FOR PRIEST RAPIDS, MCNARY, AND BONNEVILLE DAMS, AVERAGE AND DRY WATER YEARS
 WSDOE/COLUMBIA BASIN WATER SUPPLY/WA



Land Cover Type		
Bare Rock/Sand/Clay	High Intensity Residential	Row Crops
Commercial/Industrial/Transportation	Low Intensity Residential	Shrubland
Deciduous Forest	Mixed Forest	Small Grains
Emergent Herbaceous Wetlands	Open Water	Transitional
Evergreen Forest	Orchards/Vineyards/Other	Urban/Recreational Grasses
Fallow	Pasture/Hay	Woody Wetlands
Grasslands/Herbaceous	Perennial Ice/Snow	
	Quarries/Strip Mines	

Note:
* See Table 3-2 for more detail.

LEGEND

- River
- County Boundary

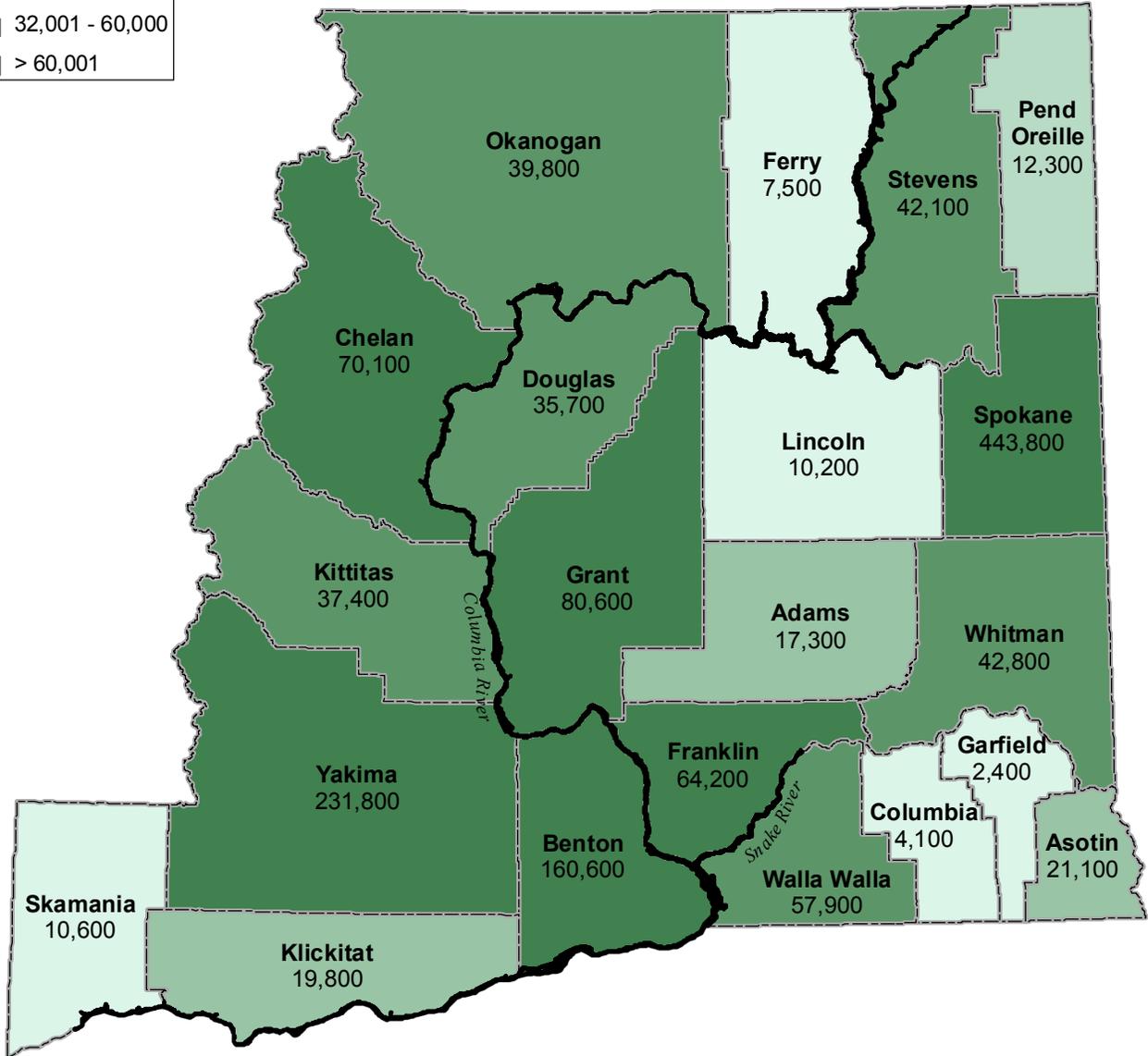
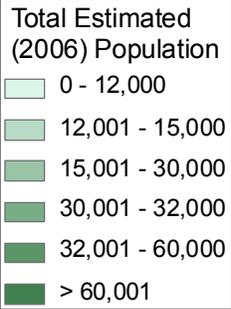


Map Projection:
GRS 1980 Albers

Source: WSDOE, USGS

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

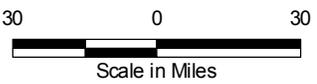
FIGURE 3-5
COLUMBIA BASIN LAND COVER CHARACTERISTICS
WSDOE/COLUMBIA BASIN WATER SPPLY/WA



Note:
 * See table 3-4 for more detail.
 Reference: Office of Financial Management, Forecasting Division. File: gmacountychange.xls
 From: www.ofm.wa.gov (accessed 9/06) Modified June 29, 2006.

LEGEND

- River
- County Boundary



Map Projection:
 UTM Zone 11N, NAD 83

Source: OFM

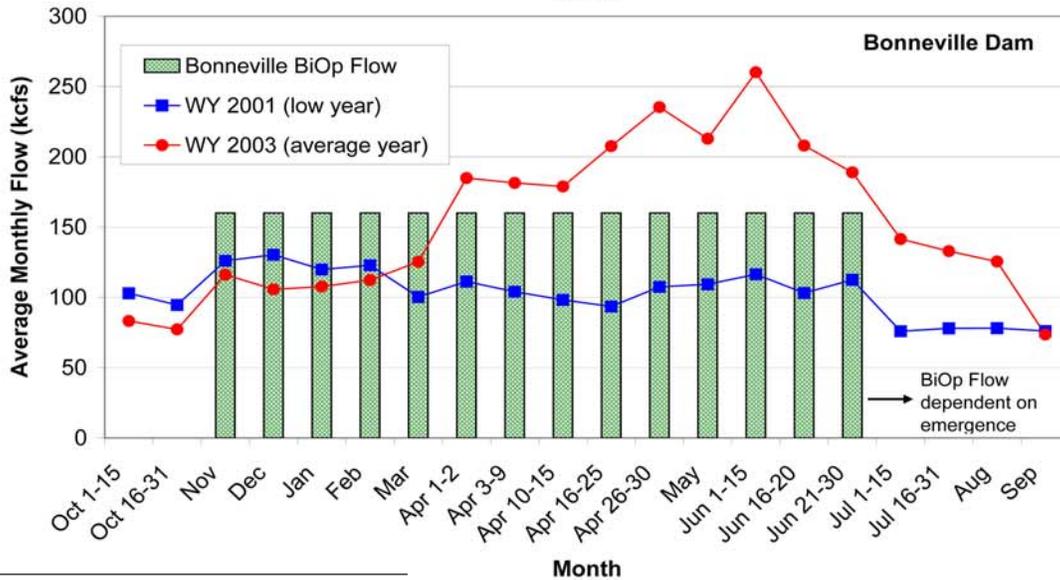
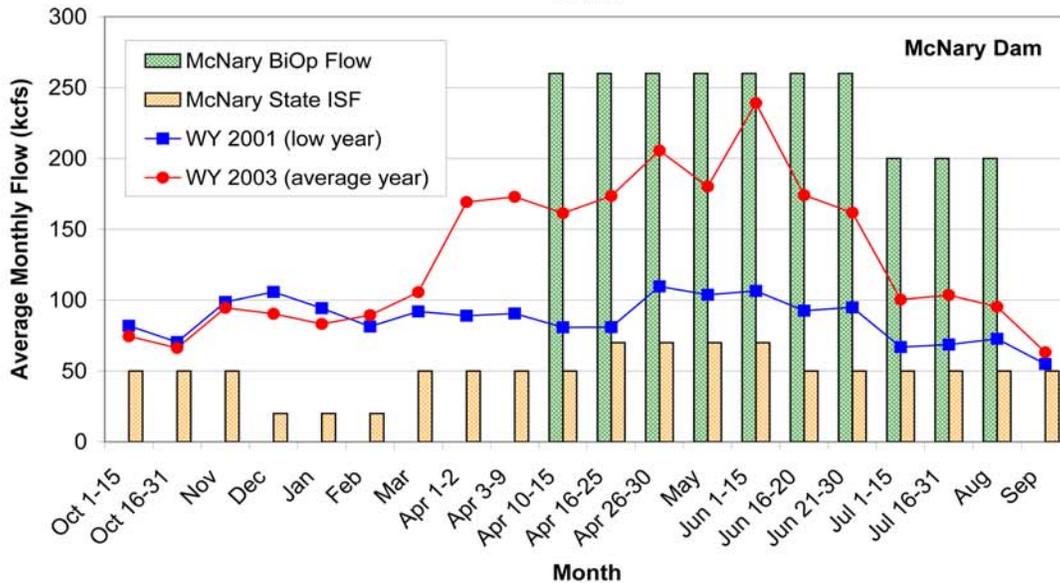
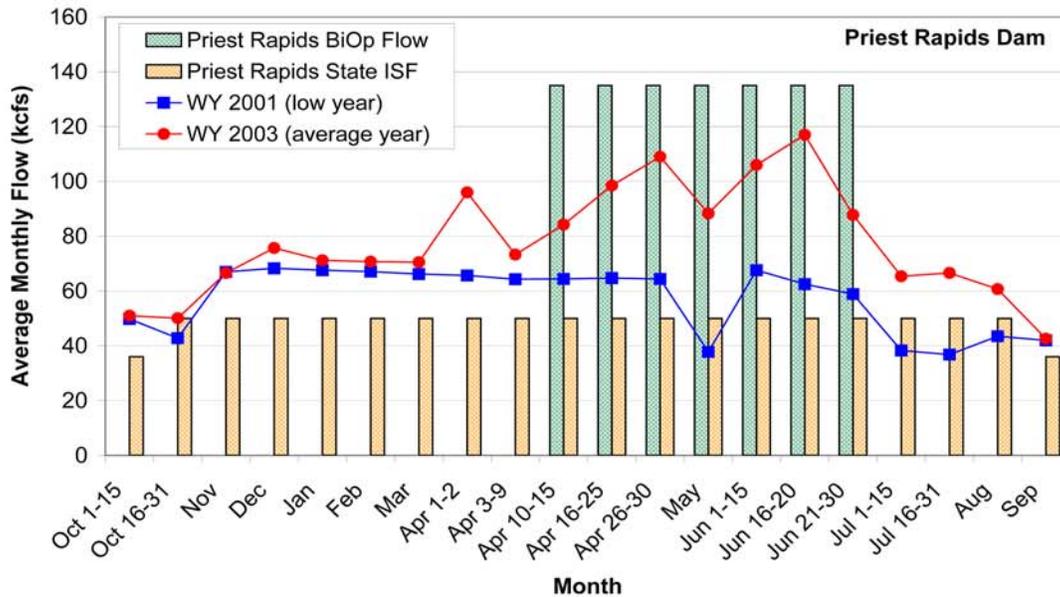


This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

FIGURE 3-6
2006 OFM

POPULATION ESTIMATE

WSDOE/COLUMBIA BASIN WATER SPPLY/WA

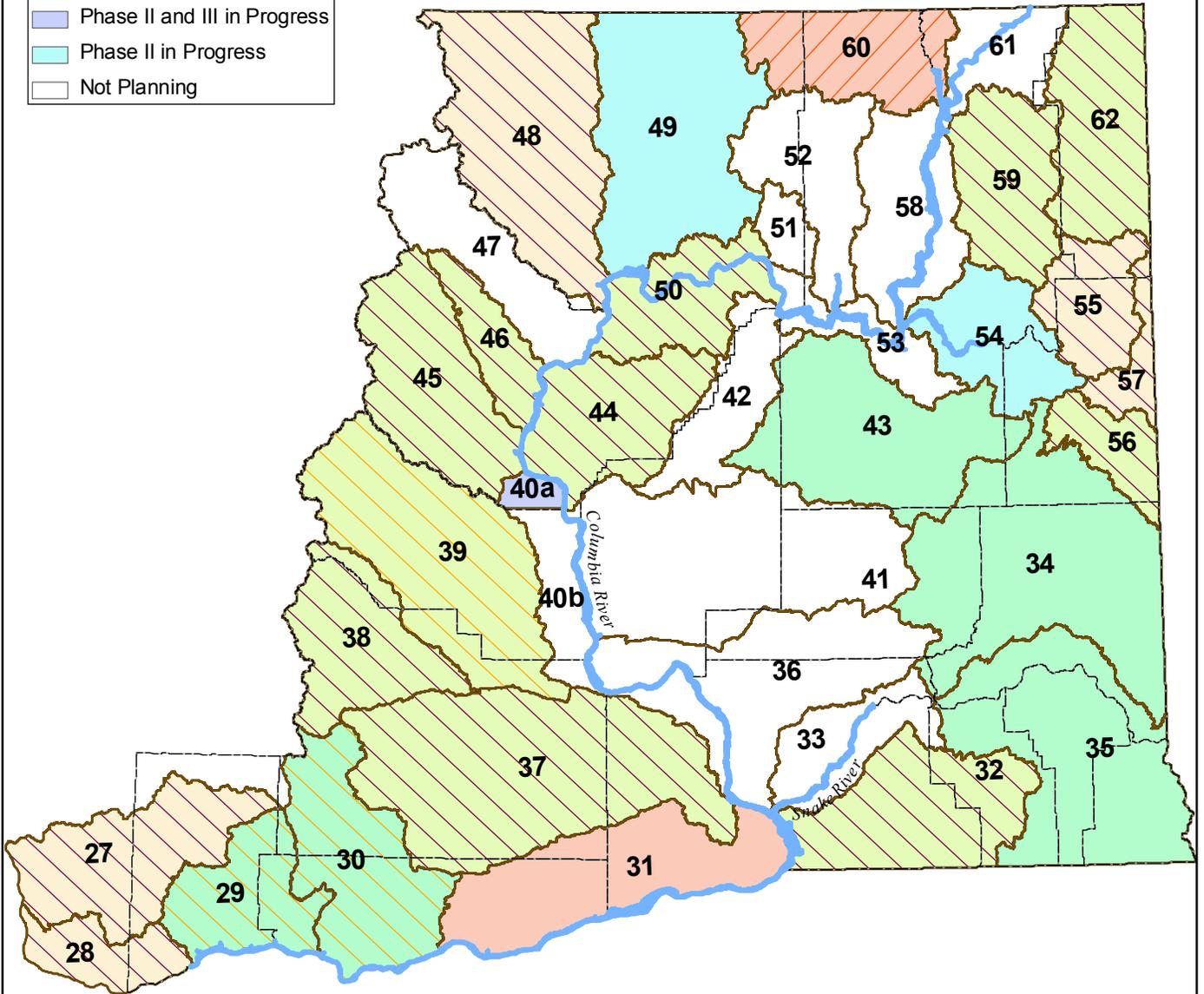


NOTES

KCFS Thousand Cubic Feet Per Second
 WY Water Year
 ISF Instream Flow
 BiOp 2004 Biological Opinion

FIGURE **3-7**
MINIMUM DAILY OUTFLOWS AND FLOW TARGETS FOR PRIEST RAPIDS, McNARY, AND BONNEVILLE DAMS
 WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

Planning Status	
	Phase IV in Progress
	Phase III Complete
	Phase III in Progress
	Phase II Complete
	Phase II and III in Progress
	Phase II in Progress
	Not Planning



Note:
 * See Table 3-9 for more detail.
 * Phase I is organization and scope.
 * Phase II is assessment.
 * Phase III is planning.
 * Phase IV is implementation plan and projects.

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

LEGEND

- County Boundary
- WRIA Boundary
- Planning Discontinued
- Approved by Planning Unit
- Approved by County



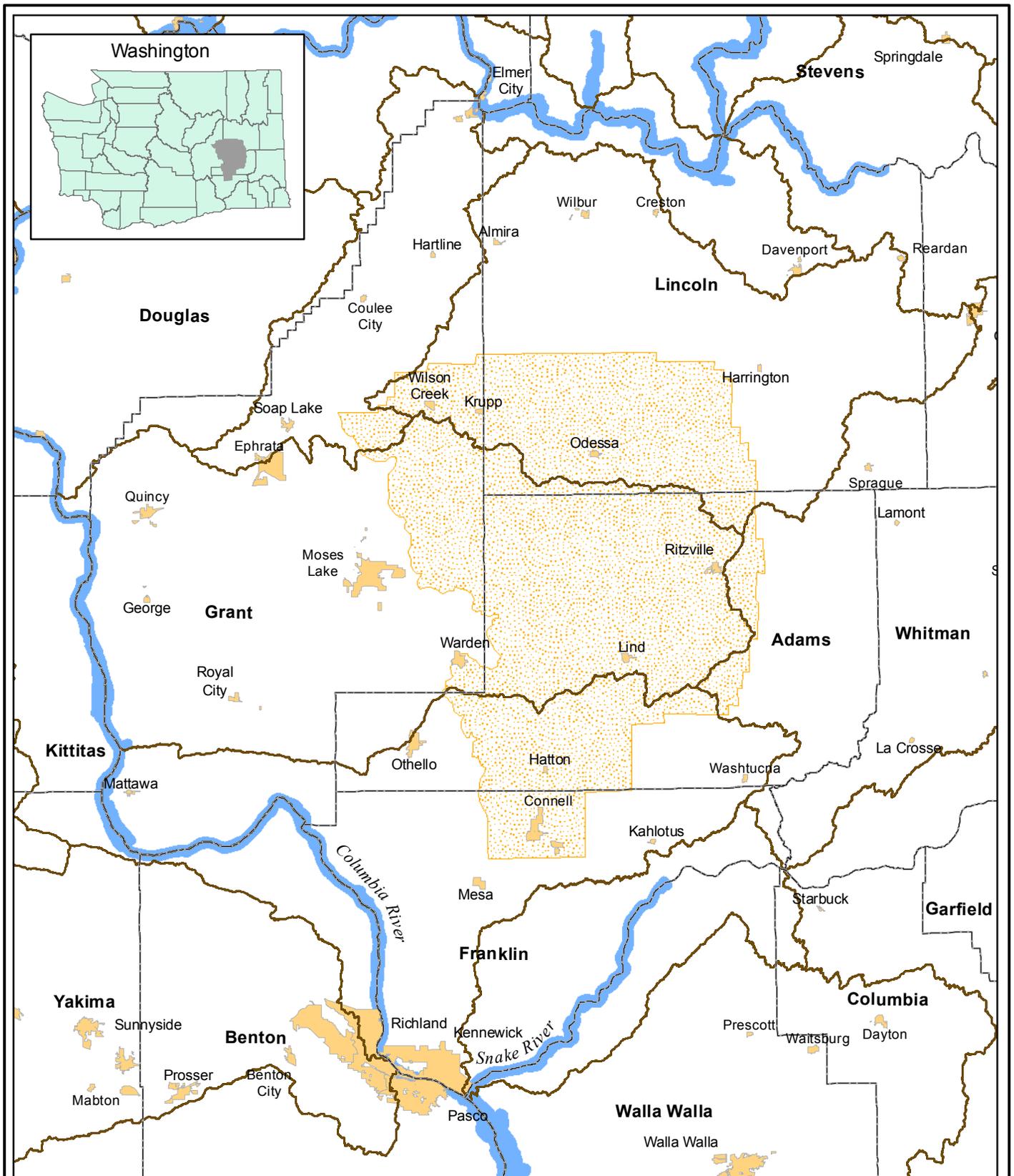
Map Projection:
 UTM Zone 11, NAD 83

Source: WSDOE



FIGURE 3-8
STATUS OF WATERSHED
PLANNING IN THE
COLUMBIA BASIN

WSDOE/COLUMBIA BASIN WATER SPPLY/WA



LEGEND

-  River
-  County Boundary
-  WRIA Boundary
-  Odessa Subarea



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 **3-9**
ODESSA SUBAREA

WSDOE/COLUMBIA BASIN WATER SPPLY/WA