

a scan of the 1998-99 Oregon Department of Transportation highway map was combined with this base map. This second base map using highways as main features makes finding familiar features easier. For most maps edited in Adobe Photoshop, this new map which located the lower Owyhee subbasin in relation to its surroundings served as the base map.

All maps created in Grass were imported into Adobe Photoshop for final editing.

The map showing the location of perennial streams was adapted from the *Oregon Atlas & Gazetteer*. In this instance the subbasin outline was oriented to the map. The perennial streams were identified from a careful examination of the USGS topographic maps that cover the region of the lower Owyhee subbasin (Figure A.1).

The map of all of Malheur County was adapted from the 1999 Rand McNally Road Atlas and oriented to the Oregon Lambert projection base map.

The township and range map (Figure A.2) was superimposed on other maps to locate items given the township and range information.

Maps from the Southeastern Oregon Resource Management Plan were imported from the pdf file, enlarged, rotated, and fit to the Oregon Lambert projection base map.

Maps from the Dry Creek geographic management area assessment were oriented to the Oregon Lambert projection base map.

2. Sources of map data (not footnoted on maps)

a. Oregon Geospatial Enterprise Office

Coverages from the Oregon Geospatial Enterprise Office. 2006. Oregon Geospatial Data Clearinghouse. <http://gis.oregon.gov/DAS/IRMD/GEO/alphalist.shtml>.

Last accessed 8/6/06.

Counties. orcnty24.zip

Highways. 2006. This data layer includes all state owned or maintained highways, connections, frontage roads, temporary traveled routes and located lines. ODOT, 1:24,000. hwynet2006.zip

Hydrologic Units - 4th Field. Hydrologic Units,1:24,000. hydro_units_4th.zip

Land, Public Ownership. 2004. ODF, 1:24000. pubown.zip.

Rivers (orrivers). EPA, 1:250,000. orrivers.zip

303d Streams - 2002. DEQ, 1:100,000. streams303d_02.zip.

Vegetation/Species. Idaho F&W GAP vegetation, 1:100,000. gap_vegetation.zip.

Last accessed 11/21/06

Township/Range (Figure A.2)

b. Zip codes:

U.S. Census Bureau. 2006. Cartographic Boundary Files: Census 2000 5-Digit AIP Code Tabulation Areas (ZCTAs). Oregon - zt41_d00_shp.zip (1,683,390 bytes). Accessed 7/20/2006. <http://www.census.gov/geo/www/cob/z52000.html>

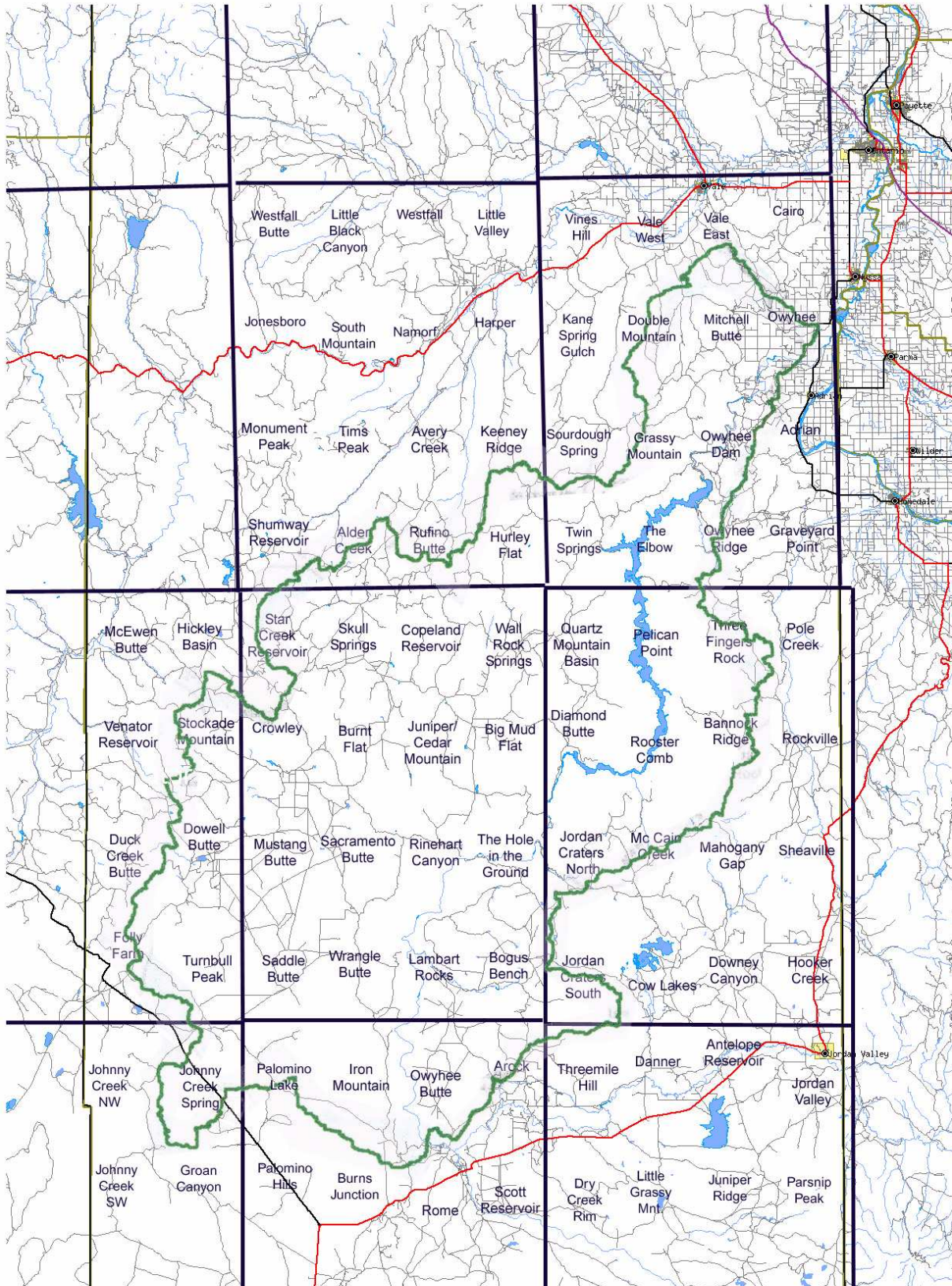


Figure A.1. USGS quadrangle maps in the lower Owyhee subbasin.

3. USGS topographic maps:

Alder Creek
Arock
Bannock Ridge
Big Mud Flat
Bogus Bench
Burnt Flat
Cedar Mountain
Copeland Reservoir
Crowley
Diamond Butte
Double Mountain
Dowell Butte
Duck Creek Butte
Folly Farm
Grassy Mountain
Hurley Flat
Iron Mountain

Johnny Creek Spring
Jordan Craters North
Jordan Craters South
Keeney Ridge
Lambert Rocks
McCain Creek
Mitchell Butte
Mustang Butte
Owyhee
Owyhee Butte
Owyhee Dam
Owyhee Ridge
Palomino Lake
Pelican Point
Quartz Mountain Basin
Rinehart Canyon
Rooster Comb

Rufino Butte
Sacramento Butte
Saddle Butte
Shumway Reservoir
Skull Spring
Star Creek Reservoir
Stockade Mountain
The Elbow
The Hole in the Ground
Three Fingers Rock
Threemile Hill
Turnbull Peak
Twin Springs
Wall Rock Springs
Wrangle Butte

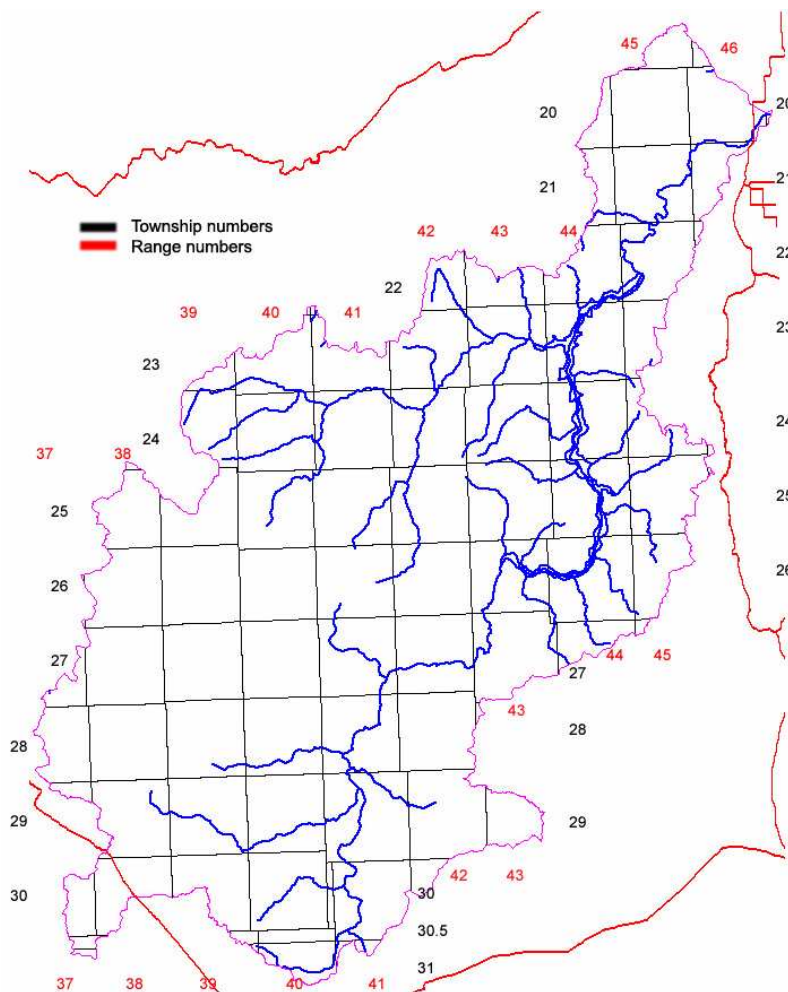


Figure A.2. Township and range numbers in the lower Owyhee subbasin.