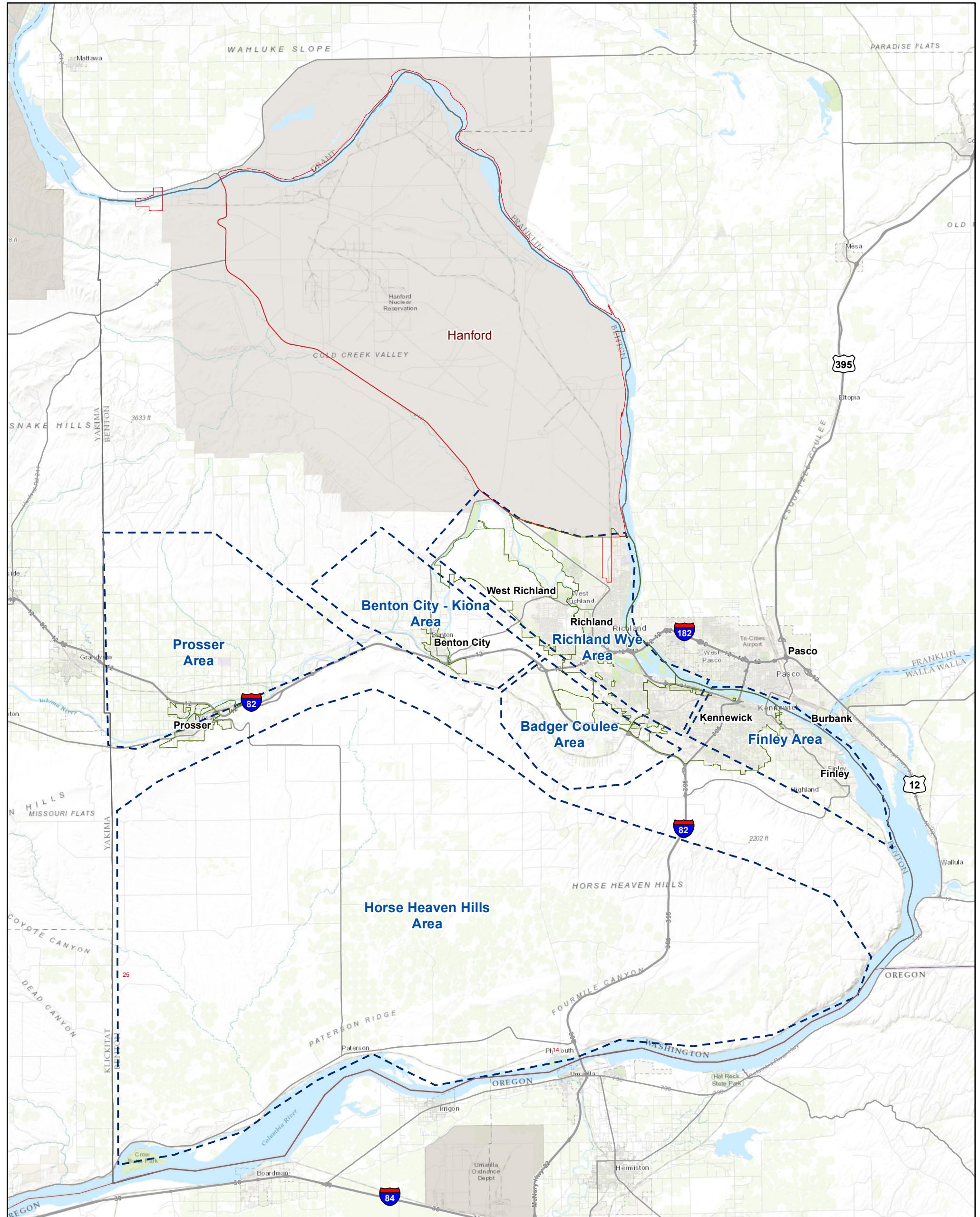


FIGURES



Legend

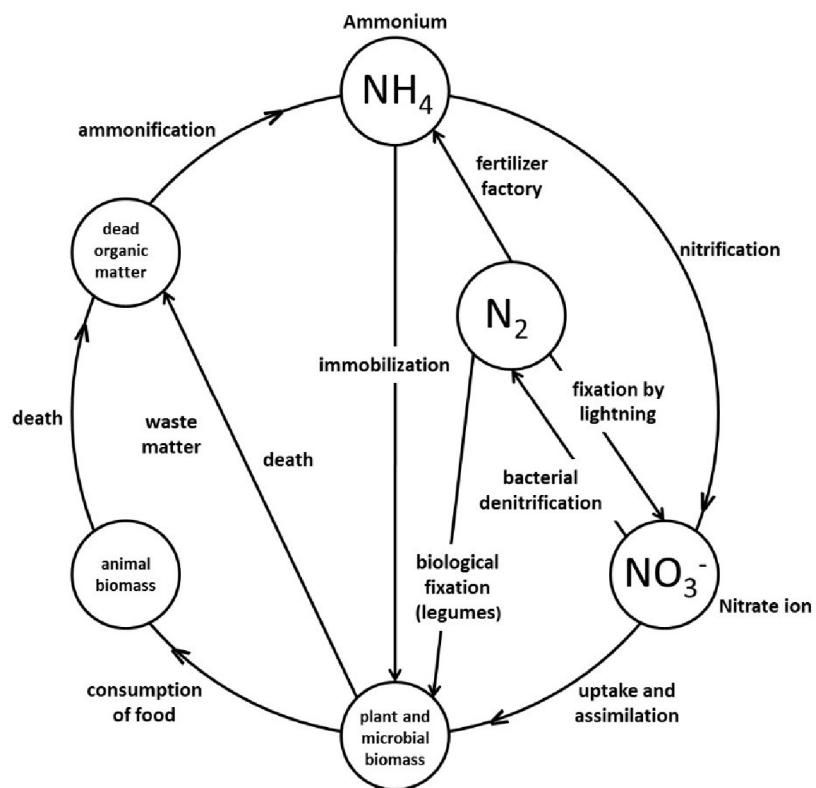
- City Limits
- Hanford
- General Area Boundary
- Highways

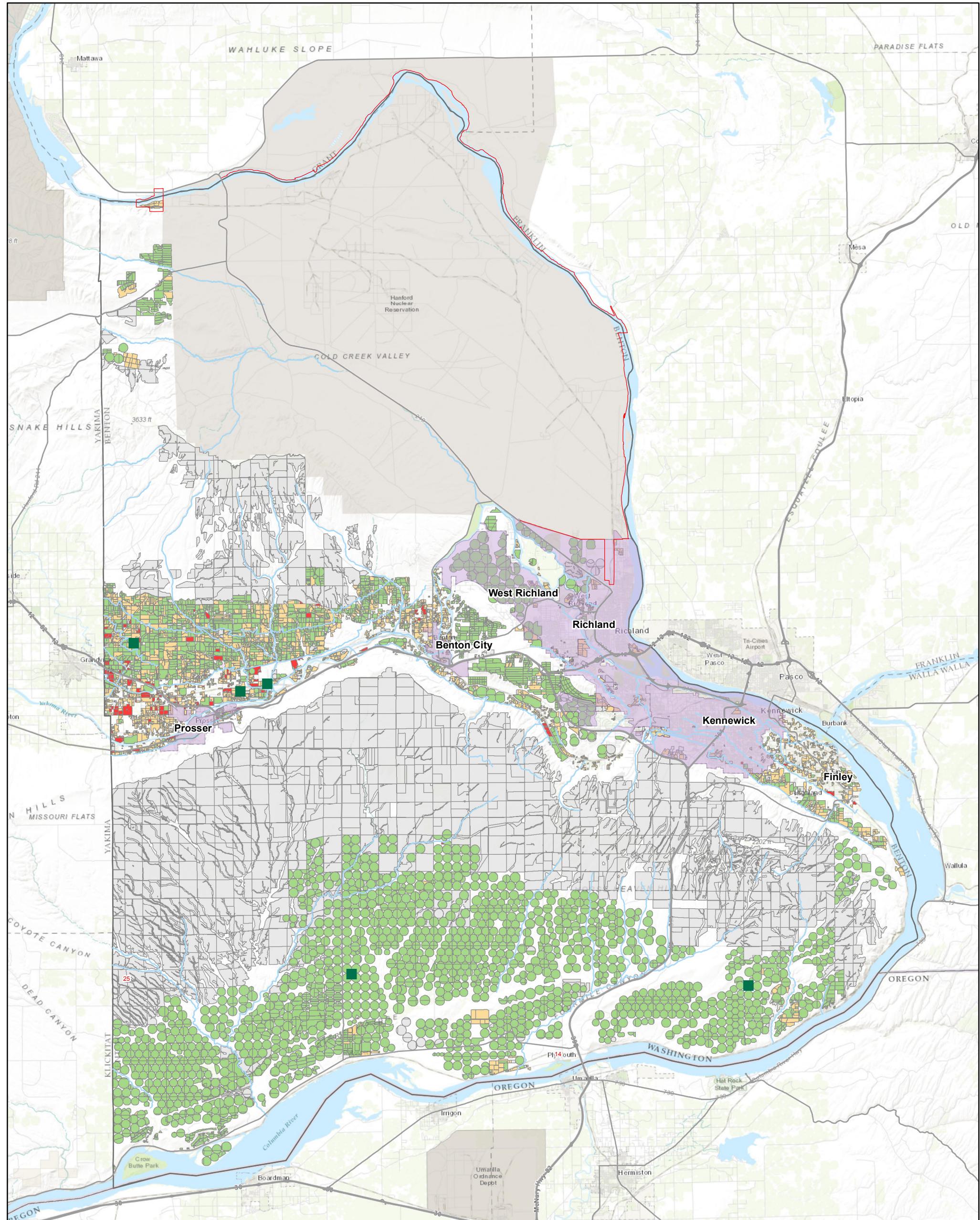
Figure 1.
Location Map
Benton County, WA

0 2 4 8
Miles



Figure 2.
Dominant Pathways of the Nitrogen Cycle
(adapted from Stonecypher, 2010)
(Center for Watershed Sciences UC, Davis, 2012 - 2.2)
Benton County, WA





Legend

	Livestock: Dairy or Feedlot		Benton County Boundary		None (Dryland)
	Highways				
	Canals, Creeks, Canyons				
	Urban Areas / City Limits				
	Hanford				
Irrigated Agriculture					
			High Efficiency		
			Moderate Efficiency		
			Low Efficiency		

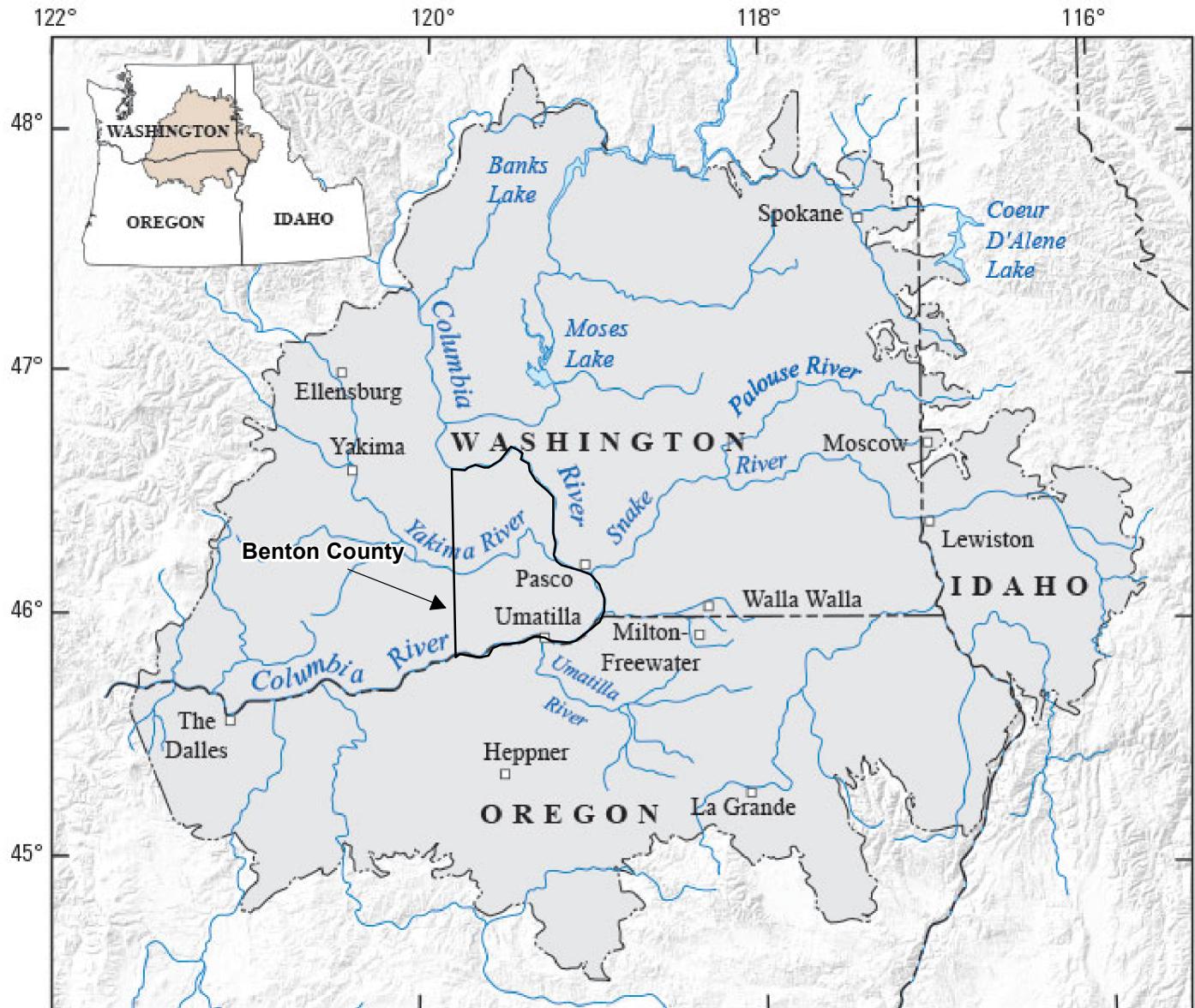
Figure 3.
Land Use
Benton County, WA

0 2 4 8
Miles

Note:
- Agriculture data from the
Washington State Department
of Agriculture, 2015 Crop Data

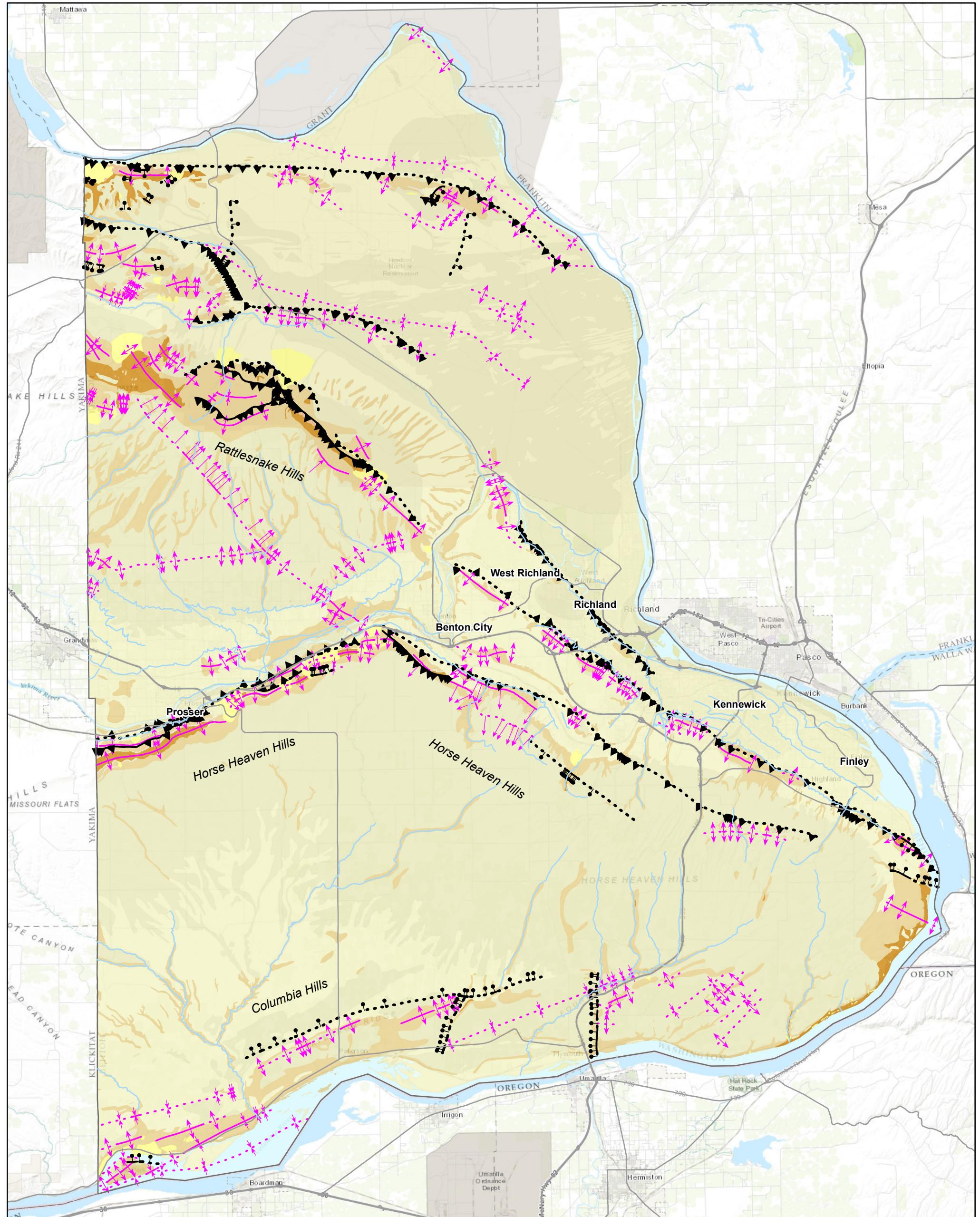


Figure 4.
Columbia Basin Province
Benton County, WA



Base modified from U.S. Geological Survey digital data, various scales.
Coordinate system: State Plane, Washington South, FIPS 4602; Projection:
Lambert Conformal Conic. Horizontal datum: North American Datum 1983,
Vertical datum: North American Vertical Datum of 1988.

0 20 40 60 80 MILES
0 20 40 60 80 KILOMETERS



Legend

Unconsolidated Sediments	Pliocene-Miocene continental sedimentary rocks	Canals, Creeks, Canyons
Quaternary alluvium, dune sand, loess, and artificial fill		
Quaternary alluvial fans, beach deposits, undifferentiated sedimentary deposits, lacustrine deposits, landslides, peat, terraced deposits, and talus		
Pleistocene continental glacial, glaciolacustrine, and outburst flood deposits, Fraser-age		
Sedimentary Rocks and Deposits		
Quaternary-Oligocene continental sedimentary rocks		
Volcanic Rocks and Deposits		
Miocene Columbia River Basalt Group, Saddle Mountains Basalt		
Miocene Columbia River Basalt Group, Wanapum Basalt		
Miocene Columbia River Basalt Group, Grande Ronde Basalt		
Faults		
Dip-Slip Movement		
Normal fault - Identity and existence certain, location accurate. Bar and ball on downthrown block		
Normal fault - Identity and existence certain, location concealed. Bar and ball on downthrown block		
Thrust fault - Identity and existence certain, location accurate. Sawteeth on upper plate		
Thrust fault - Identity and existence certain, location concealed. Sawteeth on upper plate		
Thrust fault - Identity and existence certain, location approximate. Sawteeth on upper plate		
Folds		
Monocline, anticlinal bend - Identity and existence certain, location accurate		
Monocline, anticlinal bend - Identity and existence certain, location concealed		
Monocline, synclinal bend - Identity and existence certain, location accurate		
Other Features		
Water		
Highways		

- Thrust fault - Identity and existence certain, location approximate. Sawteeth on upper plate
- Normal fault - Identity and existence certain, location accurate. Bar and ball on downthrown block
- Normal fault - Identity and existence certain, location concealed. Bar and ball on downthrown block
- Thrust fault - Identity and existence certain, location accurate. Sawteeth on upper plate
- Monocline, anticlinal bend - Identity and existence certain, location accurate
- Monocline, anticlinal bend - Identity and existence certain, location concealed
- Monocline, synclinal bend - Identity and existence certain, location accurate
- Syncline - Identity and existence certain, location accurate
- Syncline - Identity and existence certain, location concealed
- Anticline - Identity and existence certain, location accurate
- Anticline - Identity and existence certain, location approximate
- Anticline - Identity and existence certain, location concealed

Figure 5.
Surface Geology
Benton County, WA

0 2 4 8
Miles



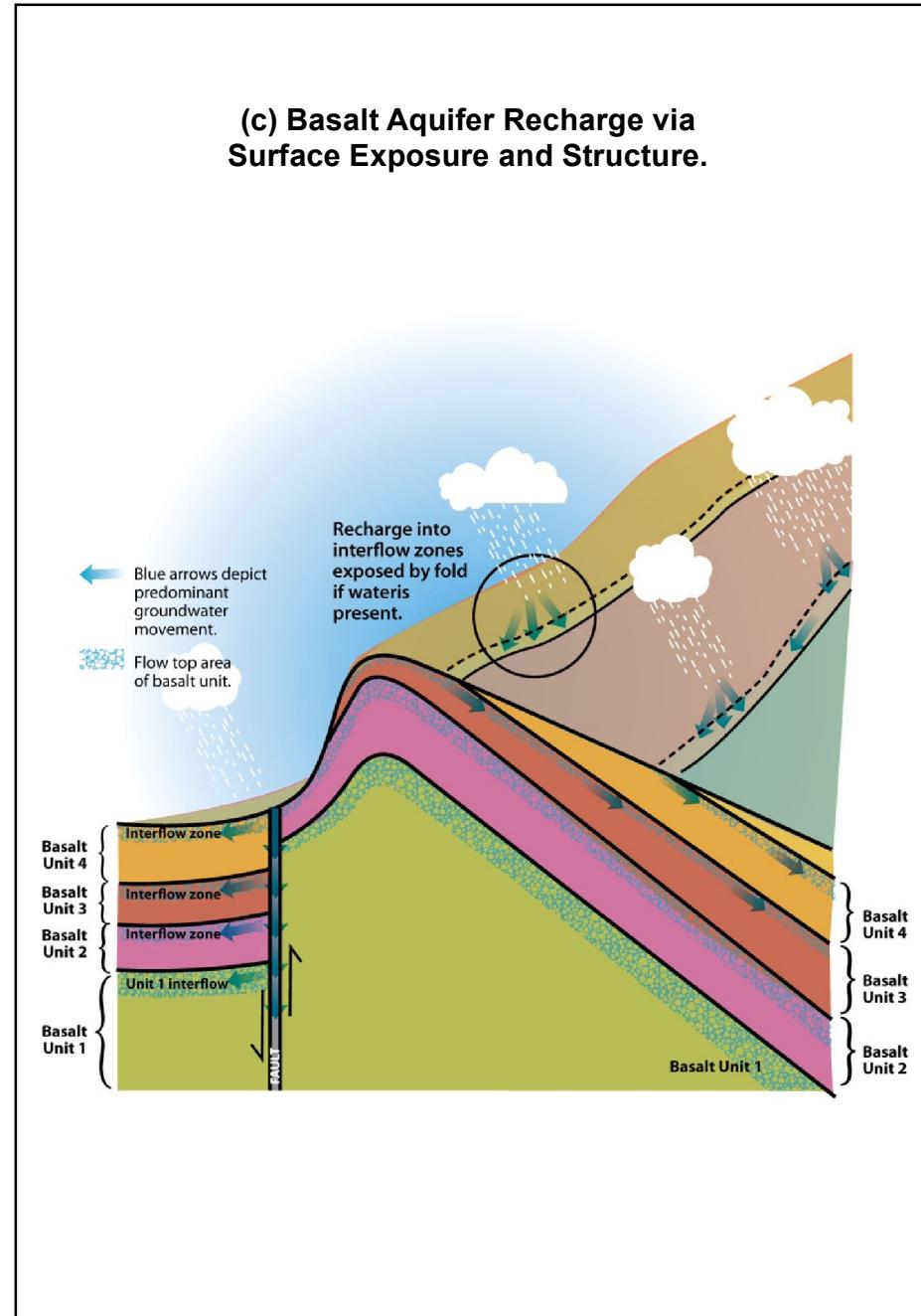
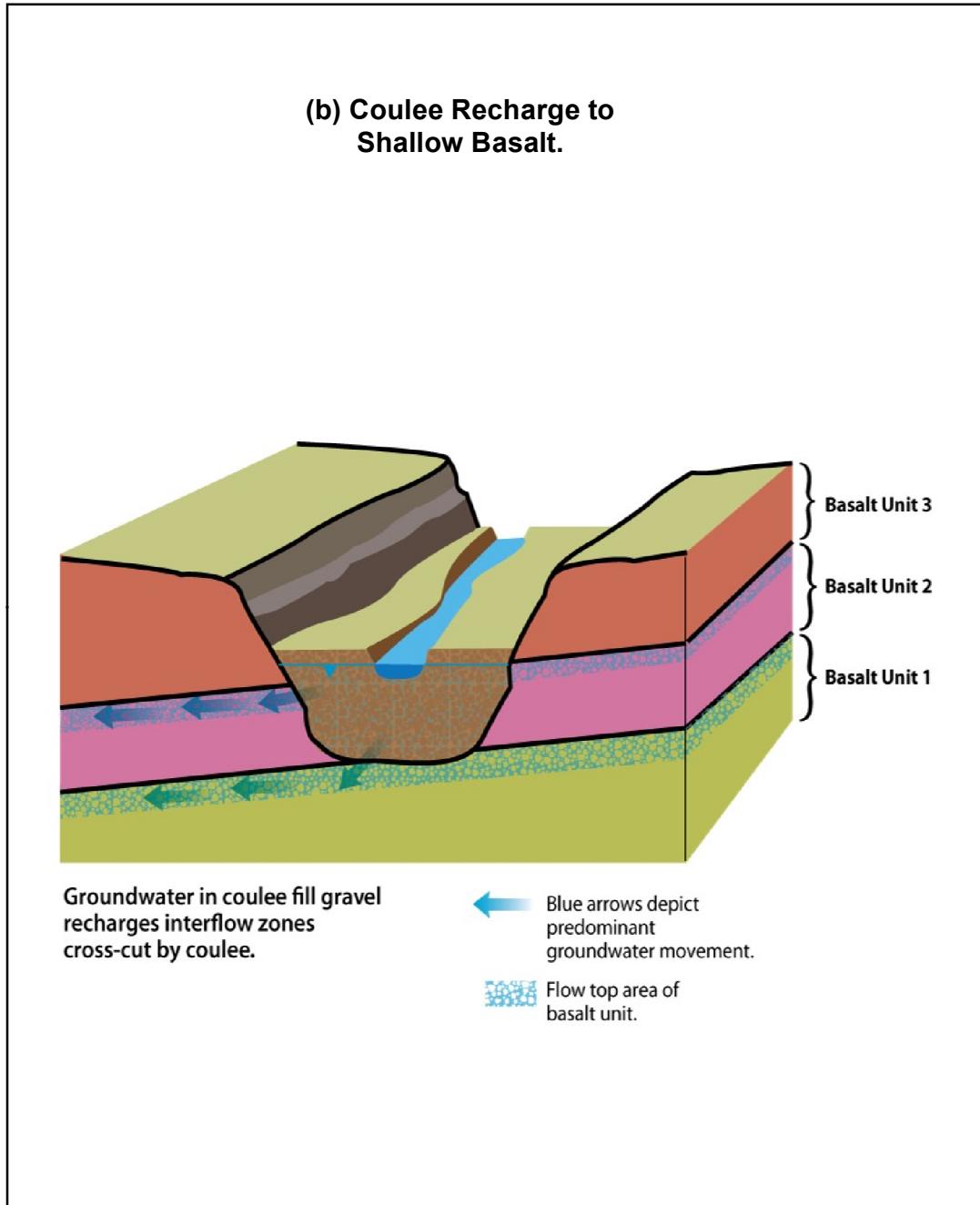
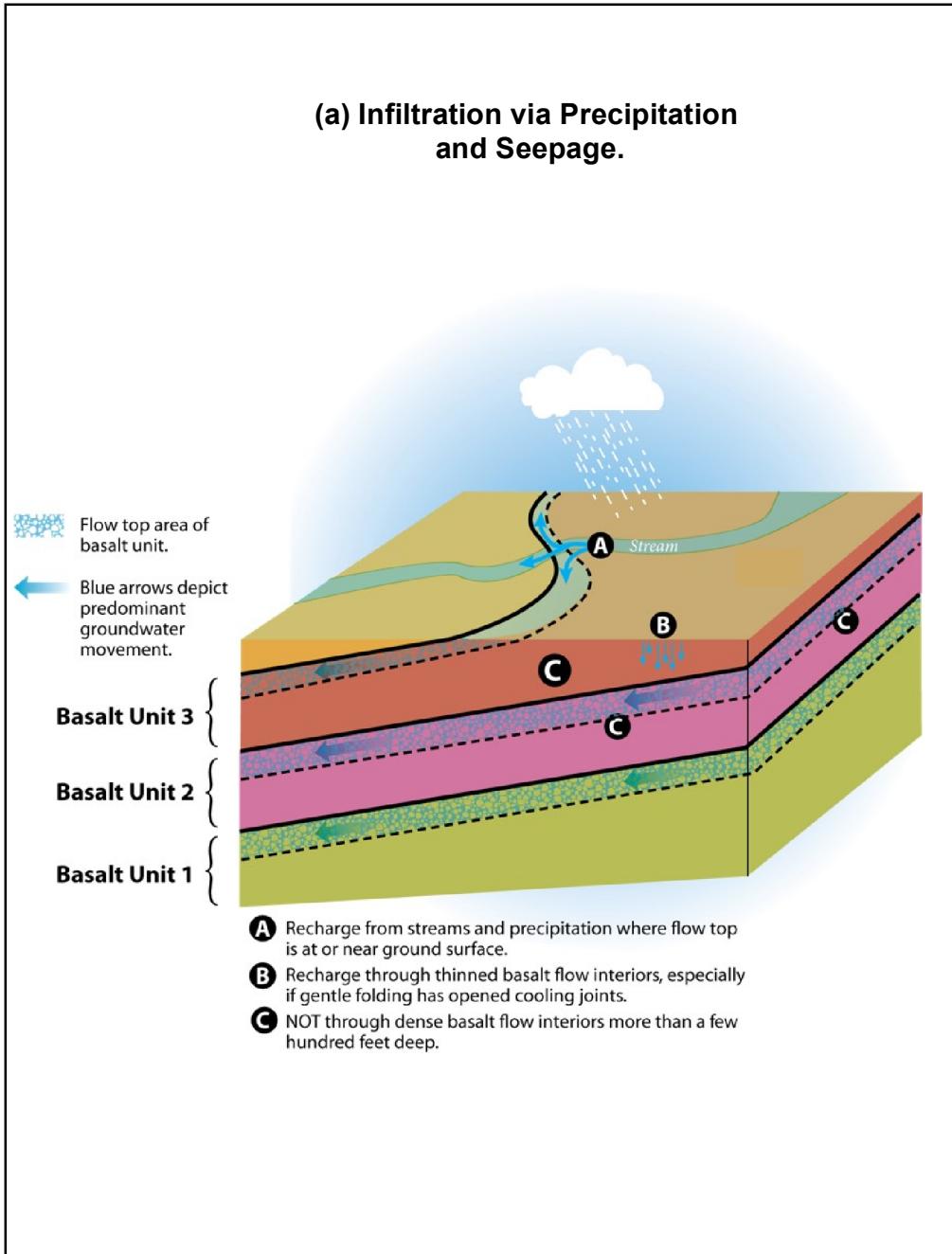


Figure 6.

Illustrations of Potential Groundwater Recharge Pathways to the Columbia River Basalt
Benton County, WA