TABLES

TABLES

TABLES (cont.)

TABLE 1. INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN.

TAXON SCIENTIFIC NAME	COMMON NAME	CURRENT FEDERAL STATUS	SUGGESTED FEDERAL STATUS
SENSITIVE SPECIES			
Land Snails			
Allogona (Allogona) lombardii Smith, 1943	Selway forestsnail	none	Threatened
Allogona (Allogona) ptychophora solida Vanatta, 1924	dry land forestsnail	none	Threatened
Anguispira nimapuna Baker, 1932	Nimapuna disc	none	Threatened
Cryptomastix (Bupiogona) n. sp. 1	Deep Creek oregonian	none	Endangered
Cryptomastix (Bupiogona) n. sp. 2	Kinney Creek oregonian	none	Endangered
Cryptomastix (Bupiogona) populi (Vanatta, 1924)	poplar oregonian	none	Threatened
Cryptomastix (Cryptomastix) harfordiana (Binney, 1878)	Salmon oregonian	none	Endangered
Cryptomastix (Cryptomastix) hendersoni (Pilsbry, 1928)•	Columbia Gorge oregonian	none	Endangered
Cryptomastix (Cryptomastix) magnidentata (Pilsbry, 1940)	Mission Creek oregonian	C2 candidate	Endangered
Cryptomastix (Cryptomastix) mullani blandi (Hemphill, 1892)	Bland oregonian	none	Endangered
Cryptomastix (Cryptomastix) mullani clappi (Hemphill, 1897)	River of No Return oregonian	none	Endangered
Cryptomastix (Cryptomastix) mullani latilabris (Pilsbry, 1940)	wide-lipped oregonian	none	Endangered
Cryptomastix (Cryptomastix) mullani tuckeri (Pilsbry & Henderson, 1930)	scaled oregonian	none	Endangered
Cryptomastix (Cryptomastix) n. sp. 1	Lochsa oregonian	none	Endangered
Cryptomastix (Cryptomastix) n. sp. 2	Hells Canyon oregonian	none	Endangered
Cryptomastix (Cryptomastix) n. sp. 3	disc oregonian	none	Endangered
Cryptomastix (Cryptomastix) n. sp. 4	Juniper Springs oregonian	none	Endangered
Cryptomastix (Cryptomastix) sanburni (Binney, 1886)	Kingston oregonian	none	Endangered
Discus brunsoni Berry, 1955	Mission Range disc	none	Endangered
Discus marmorensis Baker, 1932	marbled disc	C2 candidate	Endangered
Megomphix lutarius Baker, 1932	Umatilla megomphix	none	Endangered
Monadenia (Monadenia) fidelis minor (Binney, 1885)•	Dalles sideband	C2 candidate	Endangered
Monadenia (Monadenia) fidelis n. subsp. 1	Deschutes sideband	none	Endangered
Monadenia (Monadenia) n. sp. 1	Modoc Rim sideband	none	Endangered
Ogaridiscus subrupicola (Dall, 1877)	southern tightcoil	none	Threatened
Oreohelix alpina (Elrod, 1901)	alpine mountainsnail	none	Threatened
Oreohelix amariradix Pilsbry, 1934	Bitterroot mountainsnail	none	Endangered
Oreohelix carinifera Pilsbry, 1912	keeled mountainsnail	none	Endangered

TABLE 1. INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	COMMONNAME	CURRENT FEDERAL STATUS	SUGGESTED FEDERAL STATUS
SENSITIVE SPECIES			
Land Snails			
Oreohelix elrodi (Pilsbry, 1900)	carinate mountainsnail	none	Endangered
Oreohelix hammeri Fairbanks, 1984	Mt. Sampson mountainsnail	none	Endangered
Oreohelix haydeni hesperia Pilsbry, 1939	western mountainsnail	none	Endangered
Oreohelix haydeni perplexa Pilsbry, 1939	enigmatic mountainsnail	none	Endangered
Oreohelix idahoensis baileyi (Bartsch, 1916)	Seven Devils mountainsnail	none	Endangered
Oreohelix idahoensis idahoensis (Newcomb, 1866)	costate mountainsnail	none	Threatened
Oreohelix intersum (Hemphill, 1890)	deep slide mountainsnail	none	Endangered
Oreohelix junii Pilsbry, 1934	Grand Coulee mountainsnail	none	Threatened
Oreohelix n. sp. 1	Chelan mountainsnail	none	Endangered
Oreohelix n. sp. 2	Yakima mountainsnail	none	Endangered
Oreohelix n. sp. 3	Bearmouth mountainsnail	none	Endangered
Oreohelix n. sp. 4	Drummond mountainsnail	none	Endangered
Oreohelix n. sp. 5	Brunson mountainsnail	none	Threatened
Oreohelix n. sp. 6	Kintla Lake mountainsnail	none	Endangered
Oreohelix n. sp. 7	Kitchen Creek mountainsnail	none	Endangered
Oreohelix n. sp. 8	Squaw Creek mountainsnail	none	Endangered
Oreohelix n. sp. 9	Bluebird Canyon mountainsnail	none	none
Oreohelix n. sp. 10	Missoula mountainsnail	none	Threatened
Oreohelix n. sp. 11	subcarinate mountainsnail	none	Endangered
Oreohelix n. sp. 12	hackberry mountainsnail	none	Endangered
Oreohelix n. sp. 13	Rapid River mountainsnail	none	Endangered
Oreohelix n. sp. 14	limestone mountainsnail	none	Endangered
Oreohelix n. sp. 15	speckled mountainsnail	none	Endangered
Oreohelix n. sp. 16	rugose mountainsnail	none	Endangered
Oreohelix n. sp. 17	bicarinate mountainsnail	none	Endangered
Oreohelix n. sp. 18	Limestone Point mountainsnail	none	Endangered
Oreohelix n. sp. 19	Shingle Creek mountainsnail	none	Endangered
Oreohelix n. sp. 20	Sheep Gulch mountainsnail	none	Endangered

TABLE 1. INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	COMMON NAME	CURRENT FEDERAL STATUS	SUGGESTED FEDERAL STATUS
SENSITIVE SPECIES			
Land Snails			
Oreohelix n. sp. 21	Box Canyon mountainsnail	none	Endangered
Oreohelix n. sp. 22	Slate Creek mountainsnail	none	Endangered
Oreohelix n. sp. 23	Lucile mountainsnail	none	Endangered
Oreohelix n. sp. 24	Wet Gulch mountainsnail	none	Endangered
Oreohelix n. sp. 25	Stites mountainsnail	none	Threatened
Oreohelix n. sp. 26	Sam Hill mountainsnail	none	Threatened
Oreohelix n. sp. 27	Pass Creek mountainsnail	none	none
Oreohelix n. sp. 28	quartzite mountainsnail	none	Endangered
Oreohelix n. sp. 29	Hells Canyon mountainsnail	none	Threatened
Oreohelix n. sp. 30	Pittsburg Landing mountainsnail	none	Endangered
Oreohelix n. sp. 31	Byrne Resort mountainsnail	none	Endangered
Oreohelix strigosa delicata Pilsbry, 1934	Blue mountainsnail	none	Endangered
Oreohelix strigosa goniogyra Pilsbry, 1934	striate mountainsnail	C2 candidate	Endangered
Oreohelix strigosa n. subsp. 1	Nez Perce mountainsnail	none	Threatened
Oreohelix tenuistriata Henderson & Daniels, 1916	thin-ribbed mountainsnail	none	Endangered
Oreohelix variabilis Henderson, 1929	variable mountainsnail	none	Endangered
Oreohelix variabilis n. subsp. 1	Deschutes mountainsnail	none	Endangered
Oreohelix vortex Berry, 1932	whorled mountainsnail	C2 candidate	Threatened
Oreohelix waltoni Solem, 1975	lava rock mountainsnail	C2 candidate	Endangered
Pristiloma (Pristinopsis) arcticum? crateris Pilsbry, 1946•	Crater Lake tightcoil	none	Threatened
Pristiloma (Pristinopsis) idahoense (Pilsbry, 1902)	thinlip tightcoil	none	Threatened
Pristiloma (Priscovitrea?) wascoense (Hemphill, 1911)	shiny tightcoil	none	Threatened
Vespericola columbiana depressa (Pilsbry & Henderson, 1936)	Dalles hesperian	none	Endangered
Vespericola n. sp. 1	Oak Springs hesperian	none	Endangered
Vespericola sierranus (Berry, 1921)	Siskiyou hesperian	none	Threatened
Slugs			
Hemphillia camelus Pilsbry & Vanatta, 1897	pale jumping-slug	none	Threatened

TABLE 1. INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	COMMON NAME	CURRENT FEDERAL STATUS	SUGGESTED FEDERAL STATUS
SENSITIVE SPECIES			
Slugs			
Hemphillia danielsi Vanatta, 1914	marbled jumping-slug	none	Threatened
Hemphillia malonei Pilsbry, 1917•	Malone jumping-slug	none	Endangered
Magnipelta mycophaga Pilsbry, 1953	spotted slug	none	Endangered
Prophysaon humile Cockerell, 1890	smoky taildropper	none	Threatened
Udosarx lyrata lyrata Webb, 1959	lyre mantleslug	none	Threatened
Udosarx lyrata russelli Webb, 1980	Russell mantleslug	none	Threatened
Freshwater Snails			
Amnicola n. sp. 1	Washington duskysnail	none	Endangered
Fisherola nuttalli (Haldeman, 1843)	shortface lanx	C3 candidate	Threatened
Fluminicola fuscus (Haldeman, 1841)	Columbia pebblesnail	C2 candidate	Endangered
Fluminicola minutissimus Pilsbry, 1907	pixie pebblesnail	none	Endangered
Fluminicola n. sp. 1•	Klamath pebblesnail	none	Endangered
Fluminicola n. sp. 2•	tall pebblesnail	none	Endangered
Fluminicola n. sp. 3•	Klamath Rim pebblesnail	none	Endangered
Fluminicola n. sp. 4	Metolius pebblesnail	none	Endangered
Fluminicola n. sp. 5	Tuscan pebblesnail	none	Endangered
Fluminicola n. sp. 6	Malheur pebblesnail	none	Endangered
Fluminicola n. sp. 7	Tiger Lily pebblesnail	none	Threatened
Fluminicola n. sp. 8	Lost River pebblesnail	none	Endangered
Fluminicola n. sp. 9	Wood River pebblesnail	none	Endangered
Fluminicola turbiniformis (Tryon, 1865)	turban pebblesnail	none	Endangered
Helisoma (Carinifex) newberryi newberryi (Lea, 1858)	Great Basin rams-horn	none	Endangered
Helisoma (Carinifex) newberryi jacksonensis (Henderson, 1932)	Jackson rams-horn	C2 candidate	Endangered
Juga (Juga) hemphilli dallesensis (Henderson, 1935)	Dalles juga	none	Endangered
Juga (Juga) hemphilli hemphilli (Henderson, 1935)	barren juga	none	Endangered
Juga (Juga) hemphilli maupinensis (Henderson, 1935)	Deschutes juga	none	Endangered
Juga (Juga) hemphilli n. subsp. 1	Indian Ford juga	none	Endangered

TABLE 1. INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	COMMON NAME	CURRENT FEDERAL STATUS	SUGGESTED FEDERAL STATUS
SENSITIVE SPECIES			
Freshwater Snails			
Juga (Juga) n. sp. 1	brown juga	none	Endangered
Juga (Juga) n. sp. 2	three-band juga	none	Endangered
Juga (Oreobasis) bulbosa (Gould, 1847)	bulb juga	none	Endangered
Juga (Oreobasis) n. sp. 1	one-band juga	none	Threatened
Juga (Oreobasis) n. sp. 2•	basalt juga	none	Threatened
Juga (Oreobasis) n. sp. 3	purple juga	none	Endangered
Juga (Oreobasis) n. sp. 4	Crooked River juga	none	Endangered
Juga (Oreobasis) n. sp. 5	Blue Mountains juga	none	Endangered
Lanx alta (Tryon, 1865)	highcap lanx	none	Endangered
Lanx klamathensis Hannibal, 1912	scale lanx	none	Endangered
Lanx n. sp. 1	Banbury Springs lanx	Endangered	Endangered
Lyogyrus n. sp. 1•	Columbia duskysnail	none	Endangered
Lyogyrus n. sp. 2•	masked duskysnail	none	Endangered
Lyogyrus n. sp. 3	Klamath duskysnail	none	Endangered
Lyogyrus n. sp. 4	nodose duskysnail	none	Endangered
Lyogyrus n. sp. 5	mare's egg duskysnail	none	Endangered
Lyogyrus n. sp. 6	Snake duskysnail	none	Endangered
Lyogyrus n. sp. 7	Blue Mountains duskysnail	none	Endangered
Physa (Haitia) natricina Taylor, 1988	Snake River physa	Endangered	Endangered
Physa (Physa) megalochlamys Taylor, 1988	large-mantle physa	none	Threatened
Physella (Petrophysa) n. sp. 1	Owyhee wet-rock physa	none	Endangered
Physella (Physella) columbiana (Hemphill, 1890)	rotund physa	none	Endangered
Planorbella (Pierosoma) oregonensis (Tryon, 1865)	lamb rams-horn	none	Endangered
Pyrgulopsis archimedis Berry, 1947	Archimedes pyrg	none	Endangered
Pyrgulopsis bruneauensis Hershler, 1990	Bruneau hot springsnail	none*	Endangered
Pyrgulopsis hendersoni (Pilsbry, 1933)	Harney Lake springsnail	none	Endangered
Pyrgulopsis idahoensis (Pilsbry, 1933)	Idaho springsnail	Endangered	Endangered
Pyrgulopsis intermedia (Tryon, 1865)	Crooked Creek springsnail	none	Endangered

TABLE 1. INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	COMMON NAME	CURRENT FEDERAL STATUS	SUGGESTED FEDERAL STATUS
SENSITIVE SPECIES			
Freshwater Snails			
Pyrgulopsis n. sp. 1	Klamath Lake springsnail	none	Endangered
Pyrgulopsis n. sp. 2	Big Spring springsnail	none	Endangered
Pyrgulopsis n. sp. 3	Lake Abert springsnail	none	Endangered
Pyrgulopsis n. sp. 4	Owyhee hot springsnail	none	Endangered
Pyrgulopsis n. sp. 5	Malheur springsnail	none	Endangered
Pyrgulopsis n. sp. 6	Columbia springsnail	none	Endangered
Pyrgulopsis n. sp. 7	Benson springsnail	none	Endangered
Pyrgulopsis n. sp. 8	Indian Hot springsnail	none	Endangered
Pyrgulopsis n. sp. 9	Birch Creek springsnail	none	Endangered
Pyrgulopsis n. sp. 10	Rock Creek springsnail	none	Endangered
Pyrgulopsis n. sp. 11	Pauline springsnail	none	Endangered
Pyrgulopsis n. sp. 12	Bannock Range springsnail	none	Endangered
Pyrgulopsis n. sp. 13	Brush Creek springsnail	none	Endangered
Pyrgulopsis n. sp. 14	Teton River springsnail	none	Endangered
Pyrgulopsis n. sp. 15	Blackfoot springsnail	none	Endangered
Pyrgulopsis n. sp. 16	Warm Springs springsnail	none	Endangered
Pyrgulopsis n. sp. 17	Wilson Flat springsnail	none	Endangered
Pyrgulopsis n. sp. 18	Jim Sage springsnail	none	Endangered
Pyrgulopsis robusta (Walker, 1908)	Jackson Lake springsnail	C2 candidate	Endangered
Stagnicola (Stagnicola) elrodi (Baker & Henderson, 1933)	Flathead pondsnail	none	Endangered
Stagnicola (Stagnicola) elrodiana Baker, 1935	largemouth pondsnail	none	Endangered
Stagnicola (Stagnicola) hinkleyi (Baker, 1906)	rustic pondsnail	none	Threatened
Stagnicola (Stagnicola) idahoensis (Henderson, 1931)	shortspire pondsnail	none	Threatened
Taylorconcha serpenticola Hershler *et al.*, 1994	Bliss Rapids springsnail	Endangered	Threatened
Valvata n. sp. 1	Salmon valvata	none	Endangered
Valvata utahensis Call, 1884	desert valvata	Endangered	Endangered
Vorticifex effusus dalli (Baker, 1945)	Dall rams-horn	none	Endangered
Vorticifex effusus diagonalis (Henderson, 1929)	lined rams-horn	none	Endangered

TABLE 1. INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	COMMON NAME	CURRENT FEDERAL STATUS	SUGGESTED FEDERAL STATUS
SENSITIVE SPECIES			
Freshwater Snails			
Vorticifex klamathensis klamathensis (Baker, 1945)	Klamath rams-horn	none	Endangered
Vorticifex klamathensis sinitsini (Baker, 1945)•	Sinitsin rams-horn	none	Endangered
Vorticifex neritoides (Hemphill in Baker, 1945)	nerite rams-horn	none	Endangered
Freshwater Bivalves			
Anodonta californiensis Lea, 1852	California floater	C2 candidate	Threatened
Anodonta wahlametensis Lea, 1838	Willamette floater	none	Endangered
Margaritifera n. sp. Taylor, 1988	Pahsimeroi pearlshell	none	Endangered
Pisidium n. sp. 1	Modoc Plateau peaclam	none	Endangered
Pisidium (Cyclocalyx) ultramontanum Prime, 1865	montane peaclam	C2 candidate	Endangered
WATCH LIST			
Land Snails			
Cryptomastix (Cryptomastix) devia (Gould, 1846)•	Puget oregonian	none	?
Oreohelix jugalis (Hemphill, 1890)	boulder pile mountainsnail	C2 candidate	none
Polygyrella polygyrella (Bland & Cooper, 1861)	humped coin	none	none
Radiodiscus (Radiodomus) abietum Baker, 1930	fir pinwheel	none	none
Slugs			
Zacoleus idahoensis Pilsbry, 1903	sheathed slug	none	none
Freshwater Snails			
Fluminicola n. sp. 10	vagrant pebblesnail [in part]	none	none
Fluminicola n. sp. 11	[no common name(s)]	none	none
Lyogyrus greggi Pilsbry, 1935	Rocky Mountain duskysnail	none	none

TABLE 1. INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN (cont.)

TAXON SCIENTIFIC NAME	COMMON NAME	CURRENT FEDERAL STATUS	SUGGESTED FEDERAL STATUS
Freshwater Snails			
Pristinicola hemphilli (Pilsbry, 1907)	pristine springsnail	none	none
Promenetus exacuous megas (Dall, 1905)	prairie sprite	none	none
Stagnicola (Hinkleyia) montanensis (Baker, 1913)	mountain marshsnail	none	none
Valvata tricarinata (Say, 1817)	threeridge valvata	none	none
Freshwater Bivalves			
Gonidea angulata (Lea, 1838)	western ridgemussel	none	none
Margaritifera falcata (Gould, 1850)	western pearlshell	none	none
EXTRALIMITAL TAXA WHICH MAY OCCUR IN THE ASSESSMENT AREA			
Acroloxus coloradensis (Henderson, 1939)	Rocky Mountain capshell	C2 candidate	Endangered
Fluminicola modoci Hannibal, 1912	Modoc pebblesnail	none	Endangered
Oreohelix strigbsa berryi (Pilsbry, 1915)	Big Snowy mountainsnail	none	Endangered
Oreohelix yavapai mariae Bartsch, 1916	Gallatin mountainsnail	none	Endangered

● = formerly listed as Endangered, but action stayed by court decision; currently being relisted as Endangered.
• = listed as ROD species (see ROD, 1994).

TABLE 2. OCCURRENCES OF INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN ON FEDERAL AND STATE LANDS.

TAXON SCIENTIFIC NAME	NAME OF GOVERNMENT ENTITY OR TRACT WITH OCCURRENCES
SENSITIVE SPECIES	
Land snails	
Allogona (A.) lombardii Smith, 1943	Clearwater National Forest; Nez Perce National Forest; Lochsa Wild & Scenic River
Allogona (A.) ptychophora solida Vanatta, 1924	Hells Canyon NRA; BLM-Cottonwood; Nez Perce National Forest; Nez Perce Reservation
Anguispira nimapuna Baker, 1932	Clearwater National Forest; Nez Perce National Forest; Lochsa Wild & Scenic River; Nez Perce Reservation
Cryptomastix (B.) n. sp. 1	Payette National Forest
Cryptomastix (B.) n. sp. 2	Payette National Forest; ?BLM
Cryptomastix (B.) populi (Vanatta, 1924)	BLM-Cottonwood; Nez Perce National Forest; Hells Canyon NRA
Cryptomastix (C.) harfordiana (Binney, 1878)	BLM-Cottonwood; Nez Perce National Forest
Cryptomastix (C.) hendersoni (Pilsbry, 1928)	Columbia Gorge NSA; State of Oregon
Cryptomastix (C.) magnidentata (Pilsbry, 1940)	Nez Perce Reservation; ?State of Idaho
Cryptomastix (C.) mullani blandi (Hemphill, 1892)	?Panhandle National Forests; ?Coeur d'Alene Reservation
Cryptomastix (C.) mullani clappi (Hemphill, 1897)	Payette National Forest; Nez Perce National Forest; BLM
Cryptomastix (C.) mullani latilabris (Pilsbry, 1940)	Nez Perce National Forest: BLM
Cryptomastix (C.) mullani tuckeri (P. & H., 1930)	Clearwater National Forest; Clearwater Wild & Scenic River
Cryptomastk (C.) n. sp. 1	Clearwater National Forest; Lochsa Wild & Scenic River
Cryptomastix (C.) n. sp. 2	Hells Canyon NRA
Cryptomastix (C.) n. sp. 3	Hells Canyon NRA
Ctyptomastix (C.) n. sp. 4	Hanford Reservation (DOE)
Cryptomastix (C.) sanburni (Binney, 1886)	?Panhandle National Forests; ?Coeur d'Alene Reservation
Discus brunsoni Berry, 1955	Flathead Indian Reservation, Mission Mountains Tribal Wilderness; ?Flathead National Forest
Discus marmorensis Baker, 1932	Nez Perce National Forest; BLM

TABLE 2. OCCURRENCES OF INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN ON FEDERAL AND STATE LANDS (cont.).

TAXON SCIENTIFIC NAME	NAME OF GOVERNMENT ENTITY OR TRACT WITH OCCURRENCES
SENSITIVE SPECIES	
Land snails	
Megomphix lutarius Baker, 1932	Umatilla National Forest; ? Wallowa-Whitman National Forest
Monadenia (M.) fidelis minor (Binney, 1885)	Columbia Gorge NSA; State of Oregon?; State of Washington
Monadenia (M.) fidelis n. subsp. 1	BLM-Prineville; Deschutes Wild & Scenic River; ?Warm Springs Confederation Reservation
Monadenia (M.) n. sp. 1	Winema National Forest
Ogaridiscus subrupicola (Dall, 1877)	?Umatilla National Forest; ?Wallowa-Whitman National Forest
Oreohelix alpina (Elrod, 1901)	Flathead Indian Reservation, Mission Mountains Tribal Wilderness; ? Flathead National. Forest
Oreohelix amariradix Pilsbry, 1934	?Lolo National Forest; ?Bitterroot National Forest
Oreohelix carinifera Pilsbry, 1912	?Lolo National Forest; ? Deerlodge National Forest; ?State of Montana
Oreohelix elrodi (Pilsbry, 1900)	Flathead Indian Reservation, Mission Mountains Tribal Wilderness; Flathead National Forest
Oreohelix hammeri Fairbanks. 1984	Nez Perce National Forest
Oreohelix haydeni hesperia Pilsbry, 1939	Nez Perce National Forest; BLM
Oreohelix haydeni perplexa Pilsbry, 1939	
Oreohelix idahoensis baileyi (Bartsch, 1916)	? Payette National Forest; ?Nez Perce National Forest; ?BLM; ?Hells Canyon NRA
Oreohelix idahoensis idahoensis (Newcomb, 1866)	BLM
Oreohelix intersum (Hemphill, 1890)	BLM; ?State of Idaho
Oreohelix junii Pilsbry, 1934	Wenatchee National Forest; Okanogan National Forest; BLM; ?Bureau of Reclamation
Oreohelix n. sp. 1	Wenatchee National Forest
Oreohelix n. sp. 2	Wenatchee National Forest; BLM
Oreohelix n. sp. 3	?Lolo National Forest; ?State of Montana
Oreohelix n. sp. 4	?Lolo National Forest; ? BLM; ?State of Montana

TABLE 2. OCCURRENCES OF INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN ON FEDERAL AND STATE LANDS (cont.).

TAXON SCIENTIFIC NAME	NAME OF GOVERNMENT ENTITY OR TRACT WITH OCCURRENCES
SENSITIVE SPECIES	
Land snails	
Oreohelix n. sp. 5	Lolo National Forest
Oreohelix n. sp. 6	BLM; Glacier National Park
Oreohelix n. sp. 7	?Lolo National Forest; ?Bitterroot National Forest
Oreohelix n. sp. 8	Nez Perce National Forest; BLM
Oreohelix n. sp. 9	Challis National Forest
Oreohelix n. sp. 10	
Oreohelix n. sp. 11	Flathead Indian Reservation, Mission Mountains Tribal Wilderness; ?Flathead National Forest
Oreohelix n. sp. 12	Nez Perce National Forest
Oreohelix n. sp. 13	Nez Perce National Forest
Oreohelix n. sp. 14	Nez Perce National Forest
Oreohelix n. sp. 15	Payette National Forest; ?Nez Perce National Forest; BLM
Oreohelix n. sp. 16	Payette National Forest; ?BLM
Oreohelix n. sp. 17	Payette National Forest; BLM
Oreohelix n. sp. 18	?Hells Canyon NRA; ?BLM-Cottonwood; ?Nez Perce National Forest; ?Wallowa-Whitman National Forest
Oreohelix n. sp. 19	Nez Perce National Forest; State of Idaho
Oreohelix n. sp. 20	Nez Perce National Forest; ?State of Idaho; ?BLM
Oreohelix n. sp. 21	BLM
Oreohelix n. sp. 22	Nez Perce National Forest; ?BLM
Oreohelix n. sp. 23	BLM
Oreohelix n. sp. 24	
Oreohelix n. sp. 25	Clearwater National Forest; Nez Perce National Forest; BLM; Nez Perce Reservation

TABLE 2. OCCURRENCES OF INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN ON FEDERAL AND STATE LANDS (cont.).

TAXON SCIENTIFIC NAME	NAME OF GOVERNMENT ENTITY OR TRACT WITH OCCURRENCES
SENSITIVE SPECIES	
Land snails	
Oreohelix n. sp. 26	Columbia River Gorge NSA
Oreohelix n. sp. 27	Challis National Forest
Oreohelix n. sp. 28	?Caribou National Forest
Oreohelix n. sp. 29	Hells Canyon NRA; BLM-Cottonwood; Nez Perce National Forest; Wallowa-Whitman National Forest
Oreohelix n. sp. 30	Nez Perce National Forest
Oreohelix n. sp. 31	
Oreohelix strigosa delicata Pilsbry, 1934	?Umatilla National Forest; ?Wallowa-Whitman National Forest
Oreohelix strigosa goniogyra Pilsbry, 1934	Nez Perce National Forest; BLM-Cottonwood
Oreohelix strigosa n. subsp. 1	Nez Perce National Forest; ?Payette National Forest
Oreohelix tenuistriata Henderson & Daniels, 1916	
Oreohelix variabilis Henderson, 1929	Columbia Gorge NSA; Deschutes Wild & Scenic River; BLM?; ?State of Oregon
Oreohelix variabilis n. subsp.	Deschutes Wild & Scenic River; BLM-Prineville; ?State of Oregon
Oreohelix vortex Berry, 1932	BLM-Cottonwood
Oreohelix waltoni Solem, 1975	BLM-Cottonwood
Pristiloma (Pristinopsis) arcticum? cra teris P., 1946	Crater Lake National Park
Pristiloma (Pristinopsis) idahoense (Pilsbry, 1902)	Payette National Forest; Nez Perce National Forest; Clearwater National Forest; Idaho Panhandle National Forests; ?Coeur d'Alene Reservation
Pristiloma (Priscovitrea?) wascoense (Hemphill, 1911)	?Payette National Forest; ?Nez Perce National Forest
Vespericola columbiana depressa (Pilsbry & Henderson, 1936)	Columbia Gorge NSA; Deschutes Wild & Scenic River; BLM-Prineville; ?State of Oregon; ?State of Washington
Vespericola n. sp. 1	

TABLE 2. OCCURRENCES OF INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN ON FEDERAL AND STATE LANDS (cont.).

TAXON SCIENTIFIC NAME	NAME OF GOVERNMENT ENTITY OR TRACT WITH OCCURRENCES
SENSITIVE SPECIES	
Land snails	
Vespericola sierranus (Berry, 1921)	Winema National Forest ; BLM-Medford
Slugs	
Hemphillia came/us Pilsbry & Vanatta, 1897	Clearwater National Forest; Nez Perce National Forest; ?BLM; ?Nez Perce Reservation; St. Joe National Forest
Hemphillia danielsi Vanatta, 1914	Bitterroot National Forest
Hemphillia malonei Pilsbry, 1917	Mt. Hood National Forest; Clatsop State Forest (State of Oregon); Columbia Gorge NSA
Magnipelta mycophaga Pilsbry, 1953	Lolo National Forest; Clearwater National Forest; ? Idaho Panhandle National Forests; Flathead National Forest; ?Bitterroot National Forest ; Colviille National Forest; ?Kaniksu National Forest
Prophysaon humile Cockerell, 1890	Clearwater National Forest; St. Joe National Forest; Panhandle National Forests; ?Coeur d'Alene Reservation; ?Bitterroot National Forest; ?Lolo National Forest
Udosarx lyrata lyrata Webb, 1959	Clearwater National Forest; Lolo National Forest
Udosarx lyrata russelli Webb, 1980	?Lolo National Forest
Freshwater Snails	
Amnicola n. sp. 1	?Okanogan National Forest; ?Wenatchee National Forest; ?Colville National Forest; ?Panhandle National Forest; ?Flathead National Forest; ?Kaniksu National Forest
Fisherola nuttalli (Haldeman, 1843)	Columbia Gorge NSA; Deschutes Wild & Scenic River; Lower John Day Wild & Scenic River; ?Okanogan National Forest; Bureau of Reclamation; Hanford Reservation (DOE); U. S. Armv Corns of Enaineers: Hells Canvon NRA: Bonneville Power Authoritv

TABLE 2. OCCURRENCES OF INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN ON FEDERAL AND STATE LANDS (cont.).

TAXON SCIENTIFIC NAME	NAME OF GOVERNMENT ENTITY OR TRACT WITH OCCURRENCES
SENSITIVE SPECIES	
Freshwater Snails	
Fluminicola fuscus (Haldeman, 1841)	Columbia Gorge NSA; ?Okanogan National Forest; Bureau of Reclamation; Hanford Reservation (DOE); U. S. Army Corps of Engineers; Hells Canyon NRA; Bonneville Power Authority
Fluminicola minutissimus Pilsbry, 1907	Payette National Forest
Fluminicola n. sp. 1	Winema National Forest; Rogue River National Forest; Upper Klamath Lake National Wildlife Refuge
Fluminicola n. sp. 2	Winema National Forest; Upper Klamath Lake National Wildlife Refuge
Fluminicola n. sp. 3	BLM-Medford
Fluminicola n. sp. 4	Deschutes National Forest
Fluminicola n. sp. 5	Deschutes Wild & Scenic River; BLM-Prineville
Fluminicola n. sp. 6	BLM: ?Malheur National Wildlife Refuae
Fluminicola n. sp. 7	Winema National Forest; BLM; Upper Klamath Lake National Wildlife Refuge
Fluminicola n. sp. 8	?BLM-Klamath Falls
Fluminicola n. sp. 9	Winema National Forest; State of Oregon
Fluminicola turbiniformis (Tryon, 1865)	BLM
Helisoma (C.) newberryi newberryi (Lea, 1858)	Winema National Forest; Lassen National Forest; Upper Klamath Lake National Wildlife Refuge
Helisoma (C.) newberryi jacksonensis (Henderson, 1932)	Grand Teton National Park; Bureau of Reclamation
Juga (J.) hemphilli dallesensis (Henderson, 1935)	Columbia Gorge NSA; Gifford Pinchot National Forest; Mt. Hood National Forest
Juga (J.) hemphilli hemphilli (Henderson, 1935)	Columbia Gorge NSA; ?Gifford Pinchot National Forest; Mt. Hood National Forest
Juga (J.) hemphilli maupinensis (Henderson, 1935)	Deschutes Wild & Scenic River; BLM-Prineville
Juga (J.) hemphilli n. subsp. 1	Deschutes National Forest

TABLE 2. OCCURRENCES OF INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN ON FEDERAL AND STATE LANDS (cont.).

TAXON SCIENTIFIC NAME	NAME OF GOVERNMENT ENTITY OR TRACT WITH OCCURRENCES
SENSITIVE SPECIES	
Freshwater Snails	
Juga (J.) n. sp. 1	Columbia Gorge NSA; ?Gifford Pinchot National Forest; Mt. Hood National Forest
Juga (J.) n. sp. 2	Columbia Gorge NSA
Juga (O.) bulbosa (Gould, 1847)	Deschutes Wild & Scenic River; BLM-Prineville
Juga (0.) n. sp. 1	Columbia Gorge NSA; Gifford Pinchot National Forest
Juga (0.) n. sp. 2	Columbia Gorge NSA; Mt. Hood National Forest
Juga (O.) n. SD. 3	State of Oreaon
Juga (0.) n. sp. 4	Deschutes Wild & Scenic River; BLM-Prineville
Juga (0.) n. sp. 5	Malheur National Forest
Lanx alta (Tryon, 1865)	Winema National Forest
Lanx klamathensis Hannibal, 1912	Winema National Forest; Upper Klamath Lake National Wildlife Refuge
Lanx n. sp. 1	BLM (Idaho)
Lyogyfus n. sp. 1	Columbia Gorge NRA; State of Washington; State of Oregon; Gifford Pinchot National Forest; Mt. Hood National Forest
Lyogyrus n. sp. 2	Wenatchee National Forest; ?Okanogan National Forest; ?Colville National Forest; ?Panhandle Natonal Forests; ?Kaniksu National Forest; ?Flathead National Forest
Lyogyfus n. sp. 3	Bureau of Reclamation
Lyogyrus n. sp. 4	Bureau of Reclamation
Lyogyrus n. sp. 5	Winema National Forest; Upper Klamath Lake National Wildlife Refuge
Lyogyrus n. sp. 6	Caribou National Forest; ?BLM
Lyogyfus n. sp. 7	Malheur National Forest
Physa (H.) natricina Taylor, 1988	
Physella (Petrophysa) n. sp. 1	BLM (Oregon)

TABLE 2. OCCURRENCES OF INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN ON FEDERAL AND STATE LANDS (cont.).

TAXON SCIENTIFIC NAME	NAME OF GOVERNMENT ENTITY OR TRACT WITH OCCURRENCES
SENSITIVE SPECIES	
Freshwater Snails	
Physa (P.) megalochlamys Taylor, 1988	BLM (Oregon); National Bison Range (Montana); Yellowstone National Park; Harney-Malheur National Wildlife Refuge
Physella (P.) columbiana (Hemphill, 1890)	Bureau of Reclamation; Bonneville Power Authorii; U. S. Army Corps of Engineers
Planorbella (P.) oregonensis (Tryon, 1865)'	
Pyrgulopsis archimedis Berry, 1947	Bureau of Reclamation; ?Upper Klamath Lake National Wildlife Refuge
Pyrgulopsis bruneauensis Hershler, 1990	BLM (Idaho)
Pyrgulopsis hendersoni (Pilsbry, 1933)	BLM (Oregon); Harney-Malheur National Wildlife Refuge
Pyrgulopsis idahoensis (Pilsbry, 1933)	
Pyrgulopsis intermedia (Tryon, 1865)	BLM (Oregon); ?Hamey-Malheur National Wildlife Refuge
Pyrgulopsis n. sp. 1	Bureau of Reclamation
Pyrgulopsis n. sp. 2	
Pyrgulopsis n. sp. 3	?BLM (Oregon)
Pyrgulopsis n. sp. 4	BLM (Oregon)
Pyrgulopsis n. sp. 5	BLM (Oregon)
Pyrgulopsis n. sp. 6	Bureau of Reclamation; Bonneville Power Authority; U. S. Army Corps of Engineers
Pyrgulopsis n. sp. 7	?BLM (Idaho); ?Sawtooth National Forest
Pyrgulopsis n. sp. 8	
Pyrgulopsis n. sp. 9	BLM (Idaho); State of Idaho; ID Dept. of Fish & Game
Pyrgulopsis n. sp. 10	BLM (Idaho)
Pyrgulopsis n. sp. 11	State of Idaho; ?Ft. Hall Reservation
Pyrgulopsis n. sp. 12	?Caribou National Forest; ?BLM (Idaho)
Pyrgulopsis n. sp. 13	?Caribou National Forest; ?State of Idaho

TABLE 2. OCCURRENCES OF INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN ON FEDERAL AND STATE LANDS (cont.).

TAXON SCIENTIFIC NAME	NAME OF GOVERNMENT ENTITY OR TRACT WITH OCCURRENCES
SENSITIVE SPECIES	
Freshwater Snails	
Pyrgulopsis n. sp. 14	?Targhee National Forest
Pyrgulopsis n. sp. 15	?BLM (Idaho)
Pyrgulopsis n. sp. 16	Targhee National Forest
Pyrgulopsis n. sp. 17	?BLM (Idaho); ?Bureau of Reclamation
Pyrgulopsis n. sp. 18	BLM (Idaho); State of Idaho
Pyrgulopsis robusta (Walker, 1908)	Grand Teton National Park; ?Targhee National Forest; ?BLM (Wyoming)
Stagnicola (S.) elrodi (Baker & Henderson, 1933)	Flathead Indian Reservation
Stagnicola (S.) elrodiana Baker, 1935	Flathead Indian Reservation, Mission Mts. Tribal Wilderness; ? Flathead National Forest
Stagnicola (S.) hinkleyi (Baker, 1906)	BLM (Idaho); State of Idaho; U. S. Fish & Wildlife Service; ID Dept. of Fish & Game; Bureau of Reclamation
Stagnicola (S.) idahoensis (Henderson, 1931)	?BLM; ?Payette National Forest;? Nez Perce National Forest
Taylorconcha serpenticola Hershler et *al.,* 1994	BLM (Idaho); State of Idaho; U. S. Fish & Wildlife Service; ID Dept. of Fish & Game; Bureau of Reclamation
Valvata n. sp. 1	Nez Perce National Forest; BLM (Idaho)
Valvata utahensis Call, 1884	BLM (Idaho); State of Idaho; U. S. Fish &Wildlife Service; ID Dept. of Fish & Game; Bureau of Reclamation
Vorticifex effusus da//i (Baker, 1945)	Bureau of Reclamation; ? Upper Klamath Lake National Wildlife Refuge
Vorticifex effusus diagonalis (Henderson, 1929)	Crater Lake National Park; Bureau of Reclamation; Winema National Forest; State of Oregon
Vorticifex klamathensis klamathensis (Baker, 1945)	Bureau of Reclamation; ? Upper Klamath Lake National Wildlife Refuge; ?Winema National Forest
Vorticifex klamathensis sinitsini (Baker, 1945)	? Upper Klamath Lake National Wildlife Refuge; ?Winema National Forest

TABLE 2. OCCURRENCES OF INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN ON FEDERAL AND STATE LANDS (cont.).

TAXON SCIENTIFIC NAME	NAME OF GOVERNMENT ENTITY OR TRACT WITH OCCURRENCES
SENSITIVE SPECIES	
Freshwater Snails	
Vorticifex neritoides (Hemphill in Baker, 1945)	Columbia Gorge NSA; Bureau of Reclamation; U. S. Army Corps of Engineers; Hells Canyon NRA; Bonneville Power Authority
Freshwater Bivalves	
Anodonta californiensis Lea, 1852	Columbia Gorge NSA; Bureau of Reclamation; U. S. Army Corps of Engineers; Hells Canyon NRA; Bonneville Power Authority; ?Wenatchee National Forest; ? Okanogan National Forest. ?Colville National Forest. ?Panhandle National Forests; other National Forests in SE ID, OR; BLM (Oregon); BLM (Idaho); BLM (Nevada)
Anodonta wahlametensis Lea, 1838	Columbia Gorge NSA; Bureau of Reclamation; U. S. Army Corps of Engineers; Hells Canyon NRA; Bonneville Power Authority
Margaritifera n. sp. Taylor, 1988	BLM (Idaho)
Pisidium n. sp. 1	Winema National Forest; Lassen National Forest; BLM (Oregon); Shasta-Trinity National Forest
Pisidium (C.) ultramontanum Prime, 1865	Winema National Forest; Lassen National Forest; BLM (Oregon)
WATCH LIST	
Land Snails	
Cryptomastix (C.) devia (Gould, 1846)	?State of Washington; ?National Forests in the Washington Cascades
Oreohelix jugalis (Hemphill, 1890)	BLM-Prineville

TABLE 2. OCCURRENCES OF INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN ON FEDERAL AND STATE LANDS (cont.).

TAXON SCIENTIFIC NAME	NAME OF GOVERNMENT ENTITY OR TRACT WITH OCCURRENCES
WATCH LIST	
Land Snails	
Polygyrella polygyrella (Bland & Cooper, 1861)	Idaho Panhandle National Forests; Clearwater National Forest; Nez Perce National Forest; Nez Perce Reservation; Umatilla National Forest; ?Wallowa-Whitman National Forest; ?Kaniksu National Forest; Bitterroot National Forest; Lolo National Forest
Radiodiscus (R.) abietum Baker, 1930	Payette National Forest; Nez Perce National Forest; Clearwater National Forest; Panhandle National Forests; Flathead Indian Reservation, Mission Mts. Tribal Wilderness
Slugs	
Zacoleus idahoensis Pilsbry, 1903	Idaho Panhandle National Forests; Clearwater National Forest; Nez Perce National Forest; Kaniksu National Forest; Bitterroot National Forest; Lolo National Forest
Freshwater Snails	
Fluminicola n. sp. 10	National Forests and BLM lands in southern and eastern Idaho; northern an eastern Utah; and western Wyoming
Fluminicola n. sp. 11	National Forests and BLM lands in eastern Washington, eastern Oregon; northern Idaho
Lyogyrus greggi Pilsbry, 1935	National Forests and BLM lands in western Montana; SE Idaho; and northern Utah; Yellowstone National Park; Grand Teton National Park
Pristinicola hemphilli (Pilsbry, 1907)	BLM lands and National Forests in eastern Washington; eastern Oregon; and western Idaho, including Umatilla National Forest; BLM-Baker; Nez Perce National Forest; . Payette National Forest; Hells Canyon NRA; BLM-Cottonwood; BLM-Prineville; Deschutes National Forest; Deschutes Wild & Scenic River; Columbia Gorge NSA; State of Oregon; State of Washington

TABLE 2. OCCURRENCES OF INTERIOR COLUMBIA BASIN MOLLUSK SPECIES OF SPECIAL CONCERN ON FEDERAL AND STATE LANDS (cont.).

TAXON SCIENTIFIC NAME	NAME OF GOVERNMENT ENTITY OR TRACT WITH OCCURRENCES
Freshwater Snails	
Promenetus exacuous megas (Dall, 1905)	National Forests from the eastern Cascades Washington to Flathead National Forest, Montana
Stagnicola (H.) montanensis (Baker, 1913	Scattered sites throughout the assessment area, generally at higher elevations
Valvata tricarinata (Say, 1817)	Flathead Reservation; Flathead National Forest; ?Colville National Forest
Freshwater Bivalves	
Gonidea angulata (Lea, 1838)	Scattered sites throughout the assessment area, mostly in larger streams
Margaritifera falcata (Gould, 1850)	Scattered sites throughout the assessment area, mostly in permanent streams
EXTRALIMITAL TAXA WHICH MAY OCCUR IN THE PLANNING AREA	
Acroloxus coloradensis (Henderson, 1939)	Glacier National Park
Fluminicola modoci Hannibal, 1912	BLM-Lakeview
Oreohelix strigosa berryi Pilsbry, 1915)	Yellowstone National Park; National Forests in SW Montana
Oreohelix yavapai mariae Bartsch, 1916	Gallatin National Forest

TABLE 3. STATE OCCURRENCE AND SUGGESTED STATE STATUS FOR SPECIES OF SPECIAL CONCERN.

TAXON SCIENTIFIC NAME	OCCURRENCE							SUGGESTED STATUS						
	WA	OR	ID	MT	WY	NV	UT	WA	OR	ID	MT	WY	NV	UT
SENSITIVE SPECIES														
Land Snails														
Allogona (A.) lombardii Smith, 1943										T				
Allogona (A.) ptychophora solida Vanatta, 1924								T	E	T				
Anguispira nimapuna Baker, 1932										T				
Cryptomastix (B.) n. sp. 1										E				
Cryptomastix (B.) n. sp. 2										E				
Cryptomastix (B.) populi (Vanatta, 1924)								T	T	T				
Cryptomastix (C.) harfordiana (Binney, 1878)										E				
Cryptomastix (C.) hendersoni (Pilsbry, 1928)								E	E					
Cryptomastix (C.) magnidentata (Pilsbry, 1940)										E				
Cryptomastix (C.) mullani blandi (Hemphill, 1892)										E				
Cryptomastix (C.) mullani clappi (Hemphill, 1897)										E				
Cryptomastix (C.) mullani latilabris (Pilsbry, 1940)										E				
Cryptomastix (C.) mullani tuckeri (P. & H., 1930)										E				
Cryptomastix (C.) n. sp. 1										E				
Cryptomastix (C.) n. sp. 2								E	?	E				
Cryptomastix (C.) n. sp. 3								E	E	E				
Cryptomastix (C.) n. sp. 4								E						
Cryptomastix (C.) sanburni (Binney, 1886)										E				
Discus brunsoni Berry, 1955											E			
Discus marmorensis Baker, 1932										E				
Megomphix lutarius Baker, 1932								E	E					
Monadenia (M.) fidelis minor (Binney, 1885)								E	E					

TABLE 3. STATE OCCURRENCE AND SUGGESTED STATE STATUS FOR SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	OCCURRENCE							SUGGESTED STATUS						
	WA	OR	ID	MT	WY	NV	UT	WA	OR	ID	MT	WY	NV	UT
SENSITIVE SPECIES														
Land Snails														
Monadenia (M.) fidelis n. subsp. 1		■							E					
Monadenia (Monadenia) n. sp. 1		■							E					
Ogaridiscus subrupicola (Dall, 1877)		■	■				■		T	T				T
Oreohelix alpina (Elrod, 1901)				■							T			
Oreohelix amariradix Pilsbry, 1934				■							E			
Oreohelix carinifera Pilsbry, 1912				■							E			
Oreohelix elrodi (Pilsbry, 1900)				■							E			
Oreohelix hammeri Fairbanks, 1984			■							E				
Oreohelix haydeni hesperia Pilsbry, 1939			■							E				
Oreohelix haydeni perplexa Pilsbry, 1939			■							E				
Oreohelix idahoensis baileyi (Bartsch, 1916)			■							E				
Oreohelix idahoensis idahoensis (Newcomb, 1866)			■							T				
Oreohelix intersum (Hemphill, 1890)			■							E				
Oreohelix junii Pilsbry, 1934	■							T						
Oreohelix n. sp. 1	■							E						
Oreohelix n. sp. 2	■							E						
Oreohelix n. sp. 3				■							E			
Oreohelix n. sp. 4				■							E			
Oreohelix n. sp. 5				■							T			
Oreohelix n. sp. 6				■							E			
Oreohelix n. sp. 7				■							E			
Oreohelix n. sp. 8			■							E				

TABLE 3. STATE OCCURRENCE AND SUGGESTED STATE STATUS FOR SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	OCCURRENCE							SUGGESTED STATUS						
	WA	OR	ID	MT	WY	NV	UT	WA	OR	ID	MT	WY	NV	UT
SENSITIVE SPECIES														
Land Snails														
Oreohelix n. sp. 9										N				
Oreohelix n. sp. 10											T			
Oreohelix n. sp. 11											E			
Oreohelix n. sp. 12										E				
Oreohelix n. sp. 13										E				
Oreohelix n. sp. 14										E				
Oreohelix n. sp. 15										E				
Oreohelix n. sp. 16										E				
Oreohelix n. sp. 17										E				
Oreohelix n. sp. 18								E	?	E				
Oreohelix n. sp. 19										E				
Oreohelix n. sp. 20										E				
Oreohelix n. sp. 21										E				
Oreohelix n. sp. 22										E				
Oreohelix n. sp. 23										E				
Oreohelix n. sp. 24										E				
Oreohelix n. sp. 25										T				
Oreohelix n. sp. 26								T						
Oreohelix n. sp. 27										N				
Oreohelix n. sp. 28										E				
Oreohelix n. sp. 29								T	T	T				
Oreohelix n. sp. 30										E				

TABLE 3. STATE OCCURRENCE AND SUGGESTED STATE STATUS FOR SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	OCCURRENCE							SUGGESTED STATUS						
	WA	OR	ID	MT	WY	NV	UT	WA	OR	ID	MT	WY	NV	UT
SENSITIVE SPECIES														
Land Snails														
Oreohelix n. sp. 31				■							E			
Oreohelix strigosa delicata Pilsbry, 1934	■	■						E	E					
Oreohelix strigosa goniogyra Pilsbry, 1934			■							E				
Oreohelix strigosa n. subsp. 1			■							T				
Oreohelix tenuistriata Henderson & Daniels, 1916			■							E				
Oreohelix variabilis Henderson, 1929		■							E					
Oreohelix variabilis n. subsp		■							E					
Oreohelix vortex Berry, 1932			■							T				
Oreohelix waltoni Solem, 1975			■							E				
Pristiloma (Pristinopsis) arcticum? crateris Pilsbry, 1946		■							T					
Pristiloma (Pristinopsis) idahoense (Pilsbry, 1902)			■							T				
Pristiloma (Priscovitrea?) wascoense (Hemphill, 1911)	■	■	■					T	T	T				
Vespericola columbiana depressa (P. & H., 1936)	■	■						E	E					
Vespericola n. sp. 1		■							E					
Vespericola sierranus (Berry, 1921)		■							T					
Slugs														
Hemphillia camelus Pilsbry & Vanatta, 1897			■							T				
Hemphillia danielsi Vanatta, 1914				■							T			
Hemphillia malonei Pilsbry, 1917	▦	■						N	E					
Magnipelta mycophaga Pilsbry, 1953	■		■	■				E		E	E			
Prophysaon humile Cockerell, 1890			■							T				

TABLE 3. STATE OCCURRENCE AND SUGGESTED STATE STATUS FOR SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	OCCURRENCE							SUGGESTED STATUS						
	WA	OR	ID	MT	WY	NV	UT	WA	OR	ID	MT	WY	NV	UT
SENSITIVE SPECIES														
Slugs														
Udosarx lyrata lyrata Webb, 1959										T	T			
Udosarx lyrata russelli Webb, 1980											T			
Freshwater Snails														
Amnicola n. sp. 1								E		N	E			
Fisherola nuttalli (Haldeman, 1843)								T	T	E	E			
Fluminicola fuscus (Haldeman, 1841)								E	E	E	N			
Fluminicola minutissimus Pilsbry, 1907										E				
Fluminicola n. sp. 1									E					
Fluminicola n. sp. 2									E					
Fluminicola n. sp. 3									E					
Fluminicola n. sp. 4									E					
Fluminicola n. sp. 5									E					
Fluminicola n. sp. 6									E					
Fluminicola n. sp. 7									T					
Fluminicola n. sp. 8									E					
Fluminicola n. sp. 9									E					
Fluminicola turbiniformis (Tryon, 1865)									E				E	
Helisoma (C.) newberryi newberryi (Lea, 1858)									E					
Helisoma (C.) newberryi jacksonensis (H., 1932)												E		
Juga (J.) hemphilli dallesensis (Henderson, 1935)								E	E					

TABLE 3. STATE OCCURRENCE AND SUGGESTED STATE STATUS FOR SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	OCCURRENCE							SUGGESTED STATUS						
	WA	OR	ID	MT	WY	NV	UT	WA	OR	ID	MT	WY	NV	UT
SENSITIVE SPECIES														
Freshwater Snails														
Juga (J.) hemphilli hemphilli (Henderson, 1935)	■	■						E	E					
Juga (J.) hemphilli maupinensis (Henderson, 1935)		■							E					
Juga (J.) hemphilli n. subsp. 1		■							E					
Juga (J.) n. sp. 1	■	■						E	E					
Juga (J.) n. sp. 2	■	■						E	E					
Juga (O.) bulbosa (Gould, 1847)		■							E					
Juga (O.) n. sp. 1	■							T						
Juga (O.) n. sp. 2		■							T					
Juga (O.) n. sp. 3		■							E					
Juga (0.) n. sp. 4		■							E					
Juga (0.) n. sp. 5		■							E					
Lanx alta (Tryon, 1865)		■							E					
Lanx klamathensis Hannibal, 1912		■							E					
Lanx n. sp. 1			■							E				
Lyogyrus n. sp. 1	■	■						E	E					
Lyogyrus n. sp. 2	■							E						
Lyogyrus n. sp. 3		■							E					
Lyogyrus n. sp. 4		■							E					
Lyogyrus n. sp. 5		■							E					
Lyogyrus n. sp. 6			■							E				
Lyogyrus n. sp. 7		■							E					
Physa (H.) natricina Taylor, 1988			■							E				

TABLE 3. STATE OCCURRENCE AND SUGGESTED STATE STATUS FOR SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	OCCURRENCE							SUGGESTED STATUS						
	WA	OR	ID	MT	WY	NV	UT	WA	OR	ID	MT	WY	NV	UT
SENSITIVE SPECIES														
Freshwater Snails														
Physa (P.) megalochlamys Taylor, 1988									T	E	T	T		T
Physella (Petrophysa) n. sp. 1									E					
Physella (P.) columbiana (Hemphill, 1890)								E	E					
Planorbella (P.) oregonensis (Tryon, 1865)									E					
Pyrgulopsis archimedis Berry, 1947									E					
Pyrgulopsis bruneauensis Hershler, 1990										E				
Pyrgulopsis hendersoni (Pilsbry, 1933)									E					
Pyrgulopsis idahoensis (Pilsbry, 1933)										E				
Pyrgulopsis intermedia (Tryon, 1865)									E					
Pyrgulopsis n. sp. 1									E					
Pyrgulopsis n. sp. 2									E					
Pyrgulopsis n. sp. 3									E					
Pyrgulopsis n. sp. 4									E					
Pyrgulopsis n. sp. 5									E					
Pyrgulopsis n. sp. 6								E	E					
Pyrgulopsis n. sp. 7										E				
Pyrgulopsis n. sp. 8										E				
Pyrgulopsis n. sp. 9										E				
Pyrgulopsis n. sp. 10										E				
Pyrgulopsis n. sp. 11										E				
Pyrgulopsis n. sp. 12										E				
Pyrgulopsis n. sp. 13										E				

TABLE 3. STATE OCCURRENCE AND SUGGESTED STATE STATUS FOR SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	OCCURRENCE							SUGGESTED STATUS						
	WA	OR	ID	MT	WY	NV	UT	WA	OR	ID	MT	WY	NV	UT
SENSITIVE SPECIES														
Freshwater Snails														
Pyrgulopsis n. sp. 14			■							E				
Pyrgulopsis n. sp. 15			■							E				
Pyrgulopsis n. sp. 16			■							E				
Pyrgulopsis n. sp. 17			■							E				
Pyrgulopsis n. sp. 18			■							E				
Pyrgulopsis robusta (Walker, 1908)					■							E		
Stagnicola (S.) elrodi (Baker & Henderson, 1933)				■							E			
Stagnicola (S.) elrodiana Baker, 1935				■							E			
Stagnicola (S.) hinkleyi (Baker, 1906)		■	■		■	▦			T	T		T	N	
Stagnicola (S.) idahoensis (Henderson, 1931)			■							T				
Taylorconcha serpenticola Hershler *et al.*, 1994			■							T				
Valvata n. sp. 1			■							E				
Valvata utahensis Call, 1884			■				■			E				E
Vorticifex effusus dalli (Baker, 1945)		■							E					
Vorticifex effusus diagonalis (Henderson, 1929)		■							E					
Vorticifex klamathensis klamathensis (Baker, 1945)		■							E					
Vorticifex klamathensis sinitsini (Baker, 1945)		■							E					
Vorticifex neritoides (Hemphill in Baker, 1945)	■	■						E	E					
Freshwater Bivalves														
Anodonta californiensis Lea, 1852	■	■	■		▦	■	■	T	T	T		T	T	T
Anodonta wahlametensis Lea, 1838	■	■						E	E					

TABLE 3. STATE OCCURRENCE AND SUGGESTED STATE STATUS FOR SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	OCCURRENCE							SUGGESTED STATUS						
	WA	OR	ID	MT	WY	NV	UT	WA	OR	ID	MT	WY	NV	UT
WATCH LIST														
Freshwater Bivalves														
Margaritifera n. sp. Taylor, 1988										E				
Pisidium (C.) *ultramontanum* Prime, 1865									E					
Land Snails														
Cryptomastix (Cryptomastix) devia (Gould, 1846)								[E]	[E]					
Oreohelix jugalis (Hemphill, 1890)										T?				
Polygyrella polygyrella (Bland & Cooper, 1861)								N	N	N	N			
Radiodiscus (R.) abietum Baker, 1930								N	N	N	N			
Slugs														
Zacoleus idahoensis Pilsbry, 1903										N	N			
Freshwater Snails														
Fluminicola n. sp. 10									?	?	?			
Fluminicola n. sp. 11								?	?	?				
Lyogyrus greggi Pilsbry, 1935										?	?	?		
Pristinicola hemphilli (Pilsbry, 1907)								N	N	T				
Promenetus exacuous megas (Dall, 1905)								N		N	N			
Stagnicola (H.) montanensis (Baker, 1913										N	N	N	N	N
Valvata tricarinata (Say, 1817)								N		N	N			

TABLE 3. STATE OCCURRENCE AND SUGGESTED STATE STATUS FOR SPECIES OF SPECIAL CONCERN (cont.).

TAXON SCIENTIFIC NAME	OCCURRENCE							SUGGESTED STATUS						
	WA	OR	ID	MT	WY	NV	UT	WA	OR	ID	MT	WY	NV	UT
WATCH LIST														
Freshwater Bivalves														
Gonidea angulata (Lea, 1838)	▒	▒	▒					N	N	N				
Margaritifera falcata (Gould, 1850)	▒	▒	▒	▒	▒	▒	▒	N	N	N	N	N	N	N
EXTRALIMITAL TAXA WHICH MAY OCCUR IN THE PLANNING AREA														
Acroloxus coloradensis (Henderson, 1939)				▥							[E]			
Fluminicola modoci Hannibal, 1912		▥							[E]					
Oreohelix strigosa berryi Pilsbry, 1915)				▥	▥						[E]	[E]		
Oreohelix yavapai mariae Bartsch, 1916				▥								[E]		

EXPLANATION:

▒ = occurs in state

▥ = occurs outside assessment area

▦ = possible occurrence

[ ] = status outside assessment area

E = suggested State Endangered

T = suggested State Threatened

N = no special status recommended currently

? = insufficient information for recommendation

EXPLANATION OF TABLES 4-10

Bold Text = critically sensitive taxon

Normal Text = sensitive taxon, but not critically

† = Federally listed taxon

· = Federal candidate

° = formerly Federally listed species

 = definitely occurs in State

 = possibly occurs in State

TABLE 4. IDAHO MOLLUSK SPECIES OF SPECIAL CONCERN.

NAME	FRESHWATER		LAND	
	SNAIL	CLAM	SNAIL	SLUG
IDAHO [Total 101]				
***Amnicola* n. sp. 1**	■			
***Allogona (A.) lombardii* Smith, 1943**			■	
***Allogona (A.) ptychophora solida* Vanatta, 1924**			■	
***Anguispira nimapuna* Baker, 1932**			■	
Anodonta californiensis Lea. 1852*		■		
***Cryptomastix (C.) harfordiana* (Binney, 1878)**			■	
Cryptomastix (B.) n. sp. 1			■	
Cryptomastix (0.) n. sp. 2			■	
***Crvotomastix (B.) populi* (Vanatta, 1924)**			■	
Cryptomastix (C.) magnidentata* (Pilsbry, 1940)			■	
***Cryptomastix (C.) mullani blandi* (Hemphill, 1892)**			■	
***Crvotomastix (C.) mullani clappi* (Hemphill, 1897)**			■	
***Cryptomastix (C.) mullani latilabris* (Pilsbry, 1940)**			■	
***Cryptomastix (C.) mullani tuckeri* (Pilsbry & Henderson, 1930)**			■	
Cryptomastix (C.) n. sp. 1			■	
Cryptomastix (C.) n. sp. 2			■	
Cryptomastix (C.) n. sp. 3			■	
***Cryptomastix (C.) sanburni* (Binney, 1886)**			■	
Discus marmorensis* Baker, 1932			■	
Fisherola nuttalli* (Haldeman, 1841)	■			
Fluminicola fuscus* (Haldeman,1841)	■			
***Fluminicola minutissimus* Pilsbry, 1907**	■			
Fluminicola n. sp. 10	■			
Fluminicola n. sp. 11	■			
Gonidea angulata (Lea, 1838)		■		
***Hemphillia camelus* Pilsbry & Vanatta, 1897**				■
Lanx* n. sp. 1	■			
Lyogyrus greggi Pilsbry, 1935	■			
***Lyogyrus* n. sp. 6**	■			
***Magnipelta mycophaga* Pilsbry, 1953**				■
Margaritifera falcata (Gould, 1850)		■		
***Margaritifera* n. sp. Taylor, 1988**		■		
***Ogaridiscus subrupicola* (Dall, 1877)**			■	
***Oreohelix hammeri* Fairbanks, 1984**			■	
***Oreohelix haydeni hesperia* Pilsbry, 1939**			■	
***Oreohelix haydeni perplexa* Pilsbry, 1939**			■	
***Oreohelix idahoensis baileyi* (Bartsch, 1916)**			■	
Oreohelix idahoensis idahoensis* (Newcomb, 1866)			■	
***Oreohelix intersum* (Hemphill, 1890)**			■	
Oreohelix jugalis (Hemphill, 1890)**			■	

TABLE 4. IDAHO MOLLUSK SPECIES OF SPECIAL CONCERN (cont.).

NAME	FRESHWATER		LAND	
	SNAIL	CLAM	SNAIL	SLUG
IDAHO				
***Oreohelix* n. sp. 8**			■	
***Oreohelix* n. sp. 9**			■	
***Oreohelix* n. sp. 12**			■	
***Oreohelix* n. sp. 13**			■	
***Oreohelix* n. sp. 14**			■	
Oreohelix n. sp. 15			■	
***Oreohelix* n. sp. 16**			■	
***Oreohelix* n. sp. 17**			■	
Oreohelix n. sp. 18			■	
Oreohelix n. sp. 19			■	
Oreohelix n. sp. 20			■	
***Oreohelix* n. sp. 21**			■	
Oreohelix n. sp. 22			■	
***Oreohelix* n. sp. 23**			■	
***Oreohelix* n. sp. 24**			■	
Oreohelix n. sp. 25			■	
***Oreohelix* n. sp. 27**			■	
***Oreohelix* n. sp. 28**			■	
Oreohelix n. sp. 29			■	
***Oreohelix* n. sp. 30**			■	
Oreohelix strigosa goniogyra* Pilsbry, 1934			■	
Oreohelix strigosa n. subsp. 1			■	
Oreohelix tenuistriata Henderson & Daniels, 1916			■	
Oreohelix vortex* Berry, 1932			■	
Oreohelix ***waltoni* Solem, 1975***			■	
Physa (H.) natricina* Taylor, 1988	■			
***Physa (P.) megalochlamys* Taylor, 1988**	■			
Polygyrella polygyrella (Bland & Cooper, 1861)			■	
***Pristiloma (Priscovitrea?) wascoense* (Hemphill, 1911)**			■	
***Pristiloma (Pristinopsis) idahoense* (Pilsbry, 1902)**			■	
Pristinicola hemphilli (Pilsbry, 1907)	■			
Promenetus exacuous megas (Dall, 1905)	■			
Prophysaon ***humile* Cockerell, 1890**				■
Pyrgulopsis bruneauensis* Hershler, 1990	■			
Pyrgulopsis idahoensis* (Pilsbry, 1933)	■			
***Pyrgulopsis* n. sp. 7**	■			
***Pyrgulopsis* n. sp. 8**	■			
***Pyrgulopsis* n. sp. 9**	■			
***Pyrgulopsis* n. sp. 10**	■			
***Pyrgulopsis* n. sp. 11**	■			

TABLE 4. IDAHO MOLLUSK SPECIES OF SPECIAL CONCERN (cont.).

NAME	FRESHWATER		LAND	
	SNAIL	CLAM	SNAIL	SLUG
IDAHO				
***Pvrauloosis* n. sp. 12**	■			
***Pyrgulopsis* n. sp. 13**	■			
***Pyrgulopsis* n. sp. 14**	■			
***Pyrgulopsis* n. sp. 15**	■			
***Pyrgulopsis* n. sp. 16**	■			
***Pyrgulopsis* n. sp. 17**	■			
***Pyrgulopsis* n. sp. 18**	■			
Radiodiscus (R.) abietum **Baker. 1930**			■	
Stagnicola (H.) montanensis **(Baker, 1913)**	■			
***Stagnicola (S.) hinkleyi* (Baker, 1906)**	■			
***Stagnicola idahoensis* (Henderson, 1931)**	■			
Taylorconcha serpenticola Hershler *et al.*, 1994'	■			
Udosarx lyrata lyrata **Webb, 1959**				■
***Valvata* n. sp. 1**	■			
Valvata tricarinata **(Say, 1817)**	■			
Valvata utahensis **Call, 1884'**	■			
Zacoleus idahoensis **Pilsbry, 1903**				■
NUMBER OF FEDERALLY LISTED OR CANDIDATE SPECIES:	7	1	7	-
TOTAL CRITICALLY SENSITIVE:	27	2	51	4
TOTAL SENSITIVE, BUT NOT CRITICALLY:	7	2	3	1
TOTAL NUMBER OF SPECIES PER CATEGORY:	34	4	54	5

TABLE 5. MONTANA MOLLUSK SPECIES OF SPECIAL CONCERN.

NAME	FRESHWATER		LAND	
	SNAIL	CLAM	SNAIL	SLUG
MONTANA [Total 32]				
***Amnicola* n. sp. 1**	▒			
***Discus brunsoni* Berry, 1955**			▒	
Fisherola nuttalli* (Haldeman, 1841)	▒			
Fluminicola fucus* (Haldeman, 1841)	▒			
Fluminicola n. sp. 10	▒			
***Hemphillia danielsi* Vanatta, 1914**				▒
Lyogyrus greggi Pilsbry, 1935	▒			
***Magnipelta mycophaga* Pilsbry, 1953**				▒
Margaritifera falcata (Gould, 1850)		▒		
***Oreohelix alpina* (Elrod, 1901)**			▒	
***Oreohelix amariradix* Pilsbry, 1934**			▒	
***Oreohelix carinifera* Pilsbry, 1912**			▒	
***Oreohelix elrodi* (Pilsbry, 1900)**			▒	
***Oreohelix* n. sp. 3**			▒	
***Oreohelix* n. sp. 4**			▒	
***Oreohelix* n. sp. 5**			▒	
***Oreohelix* n. sp. 6**			▒	
***Oreohelix* n. sp. 7**			▒	
***Oreohelix* n. sp. 10**			▒	
***Oreohelix* n. sp. 11**			▒	
***Oreohelix* n. sp. 31**			▒	
***Physa (P.) megalochlamys* Taylor, 1988**	▒			
Polygyrella polygyrella (Bland & Cooper, 1861)			▒	
Promenetus exacuous megas (Dall, 1905)	▒			
Radiodiscus (R.) abietum Baker, 1930			▒	
Stagnicola (H.) montanensis (Baker, 1913)	▒			
***Stagnicola (S.) elrodi* (Baker & Henderson, 1933)**	▒			
***Stagnicola (S.) elrodiana* Baker, 1935**	▒			
***Udosarx lyrata lyrata* Webb, 1959**				▒
***Udosarx lyrata russelli* Webb, 1980**				▒
Valvata tricarinata (Say, 1817)	▒			
Zacoleus idahoensis Pilsbry, 1903				▒
NUMBER OF FEDERALLY LISTED OR CANDIDATE SPECIES:	2	-	-	-
TOTAL CRITICALLY SENSITIVE:	6	-	13	4
TOTAL SENSITIVE, BUT NOT CRITICALLY:	5	1	2	1
TOTAL NUMBER OF SPECIES PER CATEGORY:	11	1	15	5

TABLE 6. NEVADA MOLLUSK SPECIES OF SPECIAL CONCERN.

NAME	FRESHWATER		LAND	
	SNAIL	CLAM	SNAIL	SLUG
NEVADA [Total 4]				
Anodonta californiensis* Lea, 1852				
***Fluminicola turbiniformis* (Tryon, 1865)**				
Margaritifera falcata (Gould, 1850)				
Stagnicola (H.) montanensis (Baker, 1913)				
NUMBER OF FEDERALLY LISTED OR CANDIDATE SPECIES:	-	1	-	-
TOTAL CRITICALLY SENSITIVE:	1	1	-	-
TOTAL SENSITIVE, BUT NOT CRITICALLY:	1	1	-	-
TOTAL NUMBER OF SPECIES PER CATEGORY:	2	2	-	-

TABLE 6. OREGON MOLLUSK SPECIES OF SPECIAL CONCERN.

NAME	FRESHWATER		LAND	
	SNAIL	CLAM	SNAIL	SLUG
OREGON [Total 79]				
Allogona (A.) ptychophora ***solida*** Vanatta, 1924			■	
Anodonta californiensis Lea, 1852*		■		
Anodonta wahlametensis Lea, 1838		■		
Cryptomastix (B.) populi (Vanatta, 1924)			■	
Cryptomastix (C.) devia (Gould, 1846)			■	
Cryptomastix (C.) hendersoni (Pilsbry, 1928)			■	
Cryptomastix (C.) n. sp. 2			■	
Cryptomastix (C.) n. sp. 3			■	
Fisherola nuttalli (Haldeman, 1841)*	■			
Fluminicola fuscus (Haldeman, 1841)*	■			
Fluminicola n. sp. 1	■			
Fluminicola n. sp. 2	■			
Fluminicola n. sp. 3	■			
Fluminicola n. sp. 4	■			
Fluminicola n. sp. 5	■			
Fluminicola n. sp. 6	■			
Fluminicola n. sp. 7	■			
Fluminicola n. sp. 8	■			
Fluminicola n. sp. 9	■			
Fluminicola n. sp. 10	■			
Fluminicola n. sp. 11	■			
Fluminicola turbiniformis (Tryon, 1865)	■			
Gonidea angulata (Lea, 1838)		■		
Helisoma (C.) newberryi newberryi (Lea, 1858)	■			
Hemphillia malonei Pilsbry, 1917				■
Juga (J.) hemphilli dallesensis (Henderson, 1935)	■			
Juga (J.) hemphilli hemphilli (Henderson, 1935)	■			
Juga (J.) hemphilli maupinensis (Henderson, 1935)	■			
Juga (J.) hemphilli n. sp. 1	■			
Juga (J.) n. sp. 1	■			
Juga (J.) n. sp. 2	■			
Juga (O.) bulbosa (Gould, 1847)	■			
Juga (O.) n. sp. 2	■			
Juga (O.) n. sp. 3	■			
Juga (O.) n. sp. 4	■			
Juga (O.) n. sp. 5	■			
Lanx alta (Tryon, 1865)	■			
Lanx klamathensis Hannibal, 1912	■			
Lyogyrus n. sp. 1	■			
Lyogyrus n. sp. 3	■			

TABLE 6. OREGON MOLLUSK SPECIES OF SPECIAL CONCERN (cont.).

NAME	FRESHWATER		LAND	
	SNAIL	CLAM	SNAIL	SLUG
OREGON				
***Lyogyrus* n. sp. 4**	■			
***Lyogyrus* n. sp. 5**	■			
***Lyogyrus* n. sp. 7**	■			
Margaritifera falcata (Gould, 1850)		■		
***Megomphix lutarius* Baker, 1932**			■	
Monadenia (M.) fidelis minor* (Binney, 1885)			■	
***Monadenia (M.) fidelis* n. subsp. 1**			■	
***Monadenia (M.)* n. sp. 1**			■	
***Ogaridiscus subrupicola* (Dall, 1877)**			■	
***Oreohelix* n. sp. 18**			■	
***Oreohelix* n. sp. 29**			■	
***Oreohelix strigosa delicata* Pilsbry, 1934**			■	
***Oreohelix variabilis* Henderson, 1929**			■	
***Oreohelix variabilis* n. subsp. 1**			■	
***Physa (P.) megalochlamys* Taylor, 1988**	■			
***Physella (C.)* n. sp. 1**	■			
***Physella (P.) columbiana* (Hemphill, 1890)**	■			
***Pisidium* n. sp. 1**		■		
Pisidium (C.) ultramontanum* Prime, 1865		■		
***Planorbella (P.) oregonensis* (Tryon, 1865)**	■			
Polygyrella polygyrella (Bland & Cooper, 1861)			■	
***Pristiloma (Priscovitrea?) wascoense* (Hemphill, 1911)**			■	
***Pristiloma (Pristinopsis) arcticum? crateris* Pilsbry, 1946**			■	
Pristinicola hemphilli (Pilsbry, 1907)	■			
***Pyrgulopsis archimedis* Berry, 1947**	■			
***Pyrgulopsis hendersoni* (Pilsbry, 1933)**	■			
***Pyrgulopsis intermedia* (Tryon, 1865)**	■			
***Pyrgulopsis* n. sp. 1**	■			
***Pyrgulopsis* n. sp. 2**	■			
***Pyrgulopsis* n. sp. 3**	■			
***Pyrgulopsis* n. sp. 4**	■			
***Pyrgulopsis* n. sp. 5**	■			
***Pyrgulopsis* n. sp. 6**	■			
***Vespericola columbiana depressa* (Pilsbry & Henderson, 1936)**			■	
***Vespericola* n. sp. 1**			■	
***Vorticifex effusus dalli* (Baker, 1945)**	■			
***Vorticifex effusus diagonalis* (Henderson, 1929)**	■			
***Vorticifex klamathensis klamathensis* (Baker, 1945)**	■			
***Vorticifex klamathensis sinitsini* (Baker, 1945)**	■			

TABLE 6. OREGON MOLLUSK SPECIES OF SPECIAL CONCERN (cont.).

NAME	FRESHWATER		LAND	
	SNAIL	CLAM	SNAIL	SLUG
OREGON				
Vorticifex neritoides (Hemphill, 1890)				
NUMBER OF FEDERALLY LISTED OR CANDIDATE SPECIES:	2	2	1	-
TOTAL CRITICALLY SENSITIVE:	49	4	19	1
TOTAL SENSITIVE, BUT NOT CRITICALLY:	3	2	2	-
TOTAL NUMBER OF SPECIES PER CATEGORY:	52	6	21	1

TABLE 8. UTAH MOLLUSK SPECIES OF SPECIAL CONCERN.

NAME	FRESHWATER		LAND	
	SNAIL	CLAM	SNAIL	SLUG
UTAH [Total 5]				
Anodonta californiensis* Lea, 1852				
Margaritifera falcata (Gould, 1850)				
***Ogaridiscus subrupicola* (Dall, 1877)**				
***Physa (P.) megalochlamys* Taylor, 1988**				
Stagnicola (H.) montanensis (Baker, 1913)				
NUMBER OF FEDERALLY LISTED OR CANDIDATE SPECIES:	-	1	-	-
TOTAL CRITICALLY SENSITIVE:	1	1	1	-
TOTAL SENSITIVE, BUT NOT CRITICALLY:	1	1	-	-
TOTAL NUMBER OF SPECIES PER CATEGORY:	2	2	1	-

TABLE 9. WASHINGTON MOLLUSK SPECIES OF SPECIAL CONCERN.

NAME	FRESHWATER		LAND	
	SNAIL	CLAM	SNAIL	SLUG
WASHINGTON [Total 44]				
Allogona (A.) ptychophora solida **Vanatta, 1924**			■	
Amnicola **n. sp. 1**	■			
Anodonta californiensis **Lea, 1852**		■		
Anodonta wahlametensis **Lea, 1838**		■		
Cryptomastix (B.) populi **(Vanatta, 1924)**			■	
Cryptomastix (C.) devia **(Gould, 1846)**			■	
Cryptomastix (C.) hendersoni **(Pilsbry, 1928)**			■	
Cryptomastix (C.) **n. sp. 2**			■	
Cryptomastix (C.) **n. sp. 3**			■	
Cryptomastix (C.) n. **sp. 4**			■	
Fisherola nuttalii **(Haldeman, 1841)***	■			
Fluminicola fuscus **(Haldeman,1841)***	■			
Fluminicola n. sp. 11	■			
Gonidea angulata (Lea, 1838)		■		
Hemphillia malonei **Pilsbry, 1917**				■
Juga (J.) hemphilli dallesensis **(Henderson, 1935)**	■			
Juga (J.) hemphilli hemphilli **(Henderson, 1935)**	■			
Juga (J.) **n. sp. 1**	■			
Juga (J.) **n. sp. 2**	■			
Juga (O.) **n. sp. 1**	■			
Lyogyrus n. **sp. 1**	■			
Lyogyrus **n. sp. 2**	■			
Magnipelta mycophaga **Pilsbry, 1953**				■
Margaritifera falcata (Gould, 1850)		■		
Megomphix lutarius **Baker, 1932**			■	
Monadenia (M.) fidelis minor **(Binney, 1885)***			■	
Oreohelix junii **Pilsbry, 1934**			■	
Oreohelix **n. sp. 1**			■	
Oreohelix **n. sp. 2**			■	
Oreohelix **n. sp. 18**			■	
Oreohelix **n. sp. 26**			■	
Oreohelix **n. sp. 29**			■	
Oreohelix strigosa delicata **Pilsbry, 1934**			■	
Physella (P.) columbiana **(Hemphill, 1890)**	■			
Polygyrella polygyrella **(Bland & Cooper, 1861)**			■	
Pristiloma (Priscovitrea?) wascoense **(Hemphill, 1911)**			■	
Pristinicola hemphilli **(Pilsbry, 1907)**	■			
Promenetus exacuous megas (Dall, 1905)	■			
Pyrgulopsis **n. sp. 6**	■			
Radiodiscus (R.) abietum **Baker, 1930**			■	

TABLE 9. WASHINGTON MOLLUSK SPECIES OF SPECIAL CONCERN (cont.).

NAME	FRESHWATER		LAND	
	SNAIL	CLAM	SNAIL	SLUG
WASHINGTON				
Valvata tricarinata (Say, 1817)	▒			
Vespericola columbiana depressa **(Pilsbry & Henderson, 1936)**			▒	
Vespericola sierranus **(Berry, 1921)**			▒	
Vorticifex neritoides **(Hemphill, 1890)**	▒			
NUMBER OF FEDERALLY LISTED OR CANDIDATE SPECIES:	2	1	1	-
TOTAL CRITICALLY SENSITIVE:	13	2	18	2
TOTAL SENSITIVE, BUT NOT CRITICALLY:	4	2	3	-
TOTAL NUMBER OF SPECIES PER CATEGORY:	17	4	21	2

TABLE 10. WYOMING MOLLUSK SPECIES OF SPECIAL CONCERN.

NAME	FRESHWATER		LAND	
	SNAIL	CLAM	SNAIL	SLUG
WYOMING [Total 8]				
Anodonta californiensis **Lea, 1852***				
Helisoma (C.) newberryi jacksonensis **(Henderson, 1932)***				
Lyogyrus greggi Pilsbry, 1935				
Margaritifera falcata (Gould, 1850)				
Physa (P.) megalochlamys **Taylor, 1988**				
Pyrgulopsis robusta **(Walker, 1908)***				
Stagnicola (H.) montanensis (Baker, 1913)				
Stagnicola (S.) hinkleyi **(Baker, 1906)**				
NUMBER OF LISTED OR CANDIDATE:	2	1	-	-
TOTAL CRITICALLY SENSITIVE:	4	1	-	-
TOTAL SENSITIVE, BUT NOT CRITICALLY:	2	1	-	-
TOTAL NUMBER OF SPECIES:	6	2	-	-

EXPLANATION OF TABLES 1 I-28

x = sensitive species found only in single endemic cluster

X = sensitive species found in only two -three endemic clusters

regional = sensitive species found in more than three endemic clusters

For complete taxonomy, refer to Table 1.

TABLE 11. MOLLUSK SPECIES OF SPECIAL CONCERN, COLUMBIA GORGE, WASHINGTON & OREGON.

NAME	ENDEMIC STATUS
LAND	
Cryptomastix (Cryptomastix) hendersoni Pilsbry, 1928	**x**
Hemphillia malonei Pilsbry, 1917	**x?**
Monadenia fidelis minor (Binney, 1885)	x
Oreohelix variabilis Henderson, 1929	x
Oreohelix n. sp. 26	**x**
Pristiloma (Priscovitrea?) wascoense (Hemphill, 1911)	x
Vespericola columbiana depressa (Pilsbry & Henderson, 1936)	x
FRESHWATER	
Juga (Juga) hemphilli hemphilli (Henderson, 1935)	**x**
Juga (Juga) hemphilli dallesensis (Henderson, 1935)	**x**
Juga (Juga) n. sp. 1	**x**
Juga (Juga) n. sp. 2	**x**
Juga (Oreobasis) n. sp. 1	**x**
Juga (Oreobasis) n. sp. 2	**x**
Lyogyrus n. sp. 1	**x**

TABLE 12. MOLLUSK SPECIES OF SPECIAL CONCERN, LOWER COLUMBIA RIVER, WASHINGTON & OREGON.

NAME	ENDEMIC STATUS
FRESHWATER	
Anodonta californiensis Lea, 1852	regional
Anodonta wahlametensis Lea, 1838	x
Fisherola nuttalli (Haldeman, 1841)	regional
Fluminicola fuscus (Haldeman, 1843)	regional
Fluminicola n. sp. 11	**x**, regional
Gonidea angulata (Lea, 1838)	regional
Margaritifera falcata (Gould, 1850)	regional
Physella (Physella) columbiana (Hemphill, 1890)	**x**
Pyrgulopsis n. sp. 6	**x**
Vorticifex neritoides (Hemphill in Baker, 1945)	**x**

TABLE 13. MOLLUSK SPECIES OF SPECIAL CONCERN, DESCHUTES R. DRAINAGE, OREGON

NAME	ENDEMIC STATUS
LAND	
Monadenia fidelis minor (Binney, 1885)	x
Monadenia fidelis n. subsp. 1	x
Oreohelix variabilis Henderson, 1929	x
Oreohelix variabilis n. subsp. 1	x
Vespericola columbiana depressa (Pilsbry & Henderson, 1936)	x
Vespericola n. sp. 1	x
FRESHWATER	
Anodonta californiensis Lea, 1852	regional
Fisherola nuttalli (Haldeman, 1841)	regional
Fluminicola n. sp. 4	x
Fluminicola n. sp. 5	x
Gonidea angulata (Lea, 1838)	regional
Juga (Juga) hemphilli n. subsp. 1	x
Juga (Juga) hemphilli maupinensis (Henderson, 1935)	x
Juga (Oreobasis) bulbosa (Gould, 1847)	x
Juga (Oreobasis) n. sp. 2	regional
Juga (Oreobasis) n. sp. 4	x
Margaritifera falcata (Gould, 1850)	regional
Pristinicola hemphilli (Pilsbry, 1907)	regional

TABLE 14. MOLLUSK SPECIES OF SPECIAL CONCERN, UPPER KLAMATH LAKE DRAINAGE, OREGON.

NAME	ENDEMIC STATUS
LAND	
Dliscus shimeki cockerelli (Pilsbry, 1890)	regional
Monadenia n. sp. 1	x
Vespericola sierranus (Berry, 1921)	regional
FRESHWATER	
Anodonta californiensis Lea, 1852	regional
Fluminicola n. sp. 1	x
Fluminicola n. sp. 2	x
Fluminicola n. sp. 3	x
Gonidea angulata (Lea, 1838)	regional
Helisoma (Carinifex) newberryi newberryi (Lea, 1858)	x
Lanx alta (Tryon, 1865)	x
Lanx klamathensis Hannibal, 1912	x
Lyogyrus n. sp. 3	x
Lyogyrus n. sp. 4	x
Lyogyrus n. sp. 5	x
Margaritifera falcata (Gould, 1850)	regional
Pisidium n. sp. 1	x
Pisidium (Cyclocalyx) ultramontanum Prime, 1865	x
Pyrgulopsis archimedis Berry, 1947	x
Pyrgulopsis n. sp. 1	x
Pyrgulopsis n. sp. 2	x
Stagnicola (Stagnicola) hinkleyi (Baker, 1906)	regional
Vorticifex effusus dalli (Baker, 1945)	x
Vorticifex effusus diagonalis (Henderson, 1929)	x
Vorticifex klamathensis klamathensis (Baker, 1945)	x
Vorticifex klamathensis sinitsini (Baker, 1945)	x

TABLE 15. FRESHWATER MOLLUSK SPECIES OF SPECIAL CONCERN, OREGON INTERIOR BASINS.

NAME	LOCAL ENDEMIC
FRESHWATER	
Andonta californiensis Lea, 1852	regional
Fluminicola turbiniformis (Tryon, 1865)	x
Gonidea angulata (Lea, 1838)	regional
Helisoma (Carinifex) newberryi newberryi (Lea, 1858)	x
Margaritifera falcata (Gould, 1850)	regional
Physella (Petrophysa) n. sp. 1	x
Planorbella (Pierosoma) oregonensis (Tryon, 1865)	x
Pyrgulopsis hendersoni (Pilsbry, 1933)	x
Pyrgulopsis intermedia (Tryon, 1865)	x
Pyrgulopsis n. sp. 3	x
Pyrgulopsis n. sp. 4	x
Pyrgulopsis n. sp. 5	x

TABLE 16. MOLLUSK SPECIES OF SPECIAL CONCERN, BLUE MOUNTAINS, WASHINGTON & OREGON.

NAME	ENDEMIC STATUS
LAND	
Megomphix leutarius Baker, 1932	x
Oreohelix strigosa delicata Pilsbry, 1934	x
Polygyrella polygyrella (Bland & Cooper, 1861)	regional
Ogaridiscus subrupicola (Dall, 1877)	x
Pristiloma (Pristinopsis) idahoense (Pilsbry, 1902)	x
Radiodiscus (Radiodomus) abietum Baker, 1930	regional
FRESHWATER	
Anodonta californiensis Lea, 1852	regional
Fisherola nuttalli (Haldeman, 1841)	regional
Gonidea angulata (Lea, 1838)	regional
Juga (Oreobasis) n. sp. 5	x
Pristinicola hemphilli (Pilsbry, 1907)	regional
Lyogyrus n. sp. 7	x
Margaritifera falcata (Gould, 1850)	regional

TABLE 17. TERRESTRIAL MOLLUSK SPECIES OF SPECIAL CONCERN, WASHINGTON EASTERN CASCADES.

NAME	ENDEMIC STATUS
LAND	
Cryptomastix (Cryptomastix) n. sp. 4	x
Oreohelix junii Pilsbry, 1934	x
Oreohelix n. sp. 1	x
Oreohelix n. sp. 2	x

TABLE 18. FRESHWATER MOLLUSK SPECIES OF SPECIAL CONCERN, NORTHERN WASHINGTON & NORTHERN IDAHO, NORTHWESTERN MONTANA.

NAME	ENDEMIC STATUS
FRESHWATER	
Amnicola n. sp. 1	x
Anodonta californiensis Lea, 1852	regional
Fisherola nuttalli (Haldeman, 1841)	regional
Fluminicola fuscus (Haldeman, 1843)	regional
Lyogyfus n. sp. 2	x
Margaritifera falcata (Gould, 1850)	regional
Stagnicola (Hinkleyia) montanensis (Baker, 1913)	regional
Promenetus exacuous megas (Dall, 1905)	regional
Valvata tricarinata (Say, 1817)	rare in West

TABLE 19. MOLLUSK SPECIES OF SPECIAL CONCERN, LOWER SALMON RIVER, IDAHO.

NAME	ENDEMIC STATUS
FRESHWATER	
Anodonta californiensis Lea, 1852	regional
Fisherola nuttalli (Haldeman, 1841)	regional
Fluminicola fuscus (Haldeman, 1843)	regional
Gonidea angulata (Lea, 1838)	regional
Margaritifera falcata (Gould, 1850)	regional
Pristiloma hemphilli (Pilsbry, 1907)	regional
Stagnicola (Stagnicola) idahoensis (Henderson, 1931)	**x**
LAND	
Allogona lombardii Smith, 1943	x
Allogona ptychophora solida Vanatta, 1924	x
Cryptomastix (Cryptomastix) mullani latilabris (Pilsbry, 1940)	**x**
Cryptomastix (Cryptomastix) mullani clappi (Hemphill, 1897)	**x**
Cryptomastix (Cryptomastix) harfordiana (Binney, 1878)	**x**
Cryptomastix (Bupiogona) populi (Vanatta, 1924)	x
Cryptomastix (Cryptomastix) n. sp. 3	x
Discus marmorensis Baker, 1932	**x**
Hemphillia camelus Pilsbry & Vanatta, 1897	x
Oreohelix haydeni hesperia Pilsbry, 1940	**x**
Oreohelix haydeni perplexa Pilsbry, 1940	**x**
Oreohelix hammeri Fairbanks, 1984	**x**
Oreohelix idahoensis idahoensis (Newcomb, 1866)	**x**
Oreohelix intersum (Hemphill, 1890)	**x**
Oreohelix jugalis (Hemphill, 1890)	**x**
Oreohelix n. sp. 8	**x**
Oreohelix n. sp. 12	**x**
Oreohelix n. sp. 13	**x**
Oreohelix n. sp. 14	**x**
Oreohelix n. sp. 19	**x**
Oreohelix n. sp. 20	**x**
Oreohelix n. sp. 21	**x**
Oreohelix n. sp. 22	**x**
Oreohelix n. sp. 23	**x**
Oreohelix n. sp. 24	**x**
Oreohelix n. sp. 25	x
Oreohelix vortex Berry, 1932	**x**
Oreohelix waltoni Solem, 1975	**x**
Oreohelix strigosa n. subsp. 1	x
Oreohelix strigosa goniogyra Pilsbry, 1933	x
Polygyrella polygyrella (Bland & Cooper, 1861)	regional

TABLE 20. MOLLUSK SPECIES OF SPECIAL CONCERN, HELLS CANYON, IDAHO-OREGON-WASHINGTON.

NAME	ENDEMIC STATUS
LAND	
Allogona ptychophora solida **Vanatta, 1924**	x
Cryptomastix (Bupiogona) **n. sp. 1**	x
Cryptomastix (Bupiogona) **n. sp. 2**	x
Cryptomastix (Bupiogona) populi **(Vanatta, 1924)**	x
Cryptomastix (Cryptomastix) **n. sp. 2**	x
Cryptomastix (Cryptomastix) **n. sp. 3**	x
Oreohelix idahoensis baileyi **(Battsch, 1916)**	x
Oreohelix **n. sp. 16**	x
Oreohelix **n. sp. 17**	x
Oreohelix n. *SD.* **18**	x
Oreohelix **n. sp. 29**	x
Oreohelix n. sp. 30	
Oreohelix strigosa n. subsp. 1	x
FRESHWATER	
Anodonta californiensis **Lea, 1852**	regional
Fisherola nuttalli **(Haldeman, 1841)**	regional
Fluminicola fuscus **(Haldeman. 1843)**	reaional
Gonidea angulata **(Lea, 1838)**	regional
Margaritifera falcata **(Gould, 1850)**	regional
Pristinicola hemphilli **(Pilsbry, 1907)**	regional

TABLE 21. MOLLUSK SPECIES OF SPECIAL CONCERN, MIDDLE SNAKE RIVER, IDAHO.

NAME	ENDEMIC STATUS
FRESHWATER	
Fluminicola fuscus **(Haldeman, 1843)**	regional
Gonidea angulata **(Lea, 1838)**	regional
Margaritifera falcata **(Gould, 1850)**	regional
Lanx **n. sp. 1**	x
Physa (Haitia) natricina (Taylor, 1988)	x
Pyrgulopsis bruneauensis **(Hershler, 1990)**	x
Pyrgulopsis idahoensis **(Pilsbry, 1933)**	x
Stagnicola (Hinkleyia) montanensis **(Baker, 1913)**	regional
Stagnicola (Sfagnicola) hinkleyi **(Baker, 1906)**	regional
Taylorconcha serpenticola **Hershler et *al.*, 1994**	x
Valvata utahensis Call, 1884	x

TABLE 22. MOLLUSK SPECIES OF SPECIAL CONCERN, SE IDAHO.

NAME	ENDEMIC STATUS
LAND	
Oreohelix hemphilli **(Newcomb, 1869)**	x
Oreohelix tenuistriata **Henderson & Daniels, 1916**	x
Oreohelix n. **sp. 9**	x
Oreohelix n. sp. 27	x
FRESHWATER	
Fluminicola **n. sp. 10**	x, regional
Gonidea angulata **(Lea, 1838)**	regional
Lyogyrus greggi **(Pilsbry, 1933)**	regional
Lyogyrus **n. sp. 6**	x
Margaritifera falcata **(Gould, 1850)**	regional
Margaritifera **n. sp. Taylor, 1988**	x
Pyrgulopsis **n. sp. 7**	x
Pyrgulopsis **n. sp. 8**	x
Pyrgulopsis **n. sp. 9**	x
Pyrgulopsis **n. sp. 10**	x
Pyrgulopsis **n. sp. 11**	x
Pyrgulopsis **n. sp. 12**	x
Pyrgulopsis **n. sp. 13**	x
Pyrgulopsis **n. sp. 14**	x
Pyrgulopsis **n. sp. 15**	x
Pyrgulopsis **n. sp. 16**	x
Pyrgulopsis **n. sp. 17**	x
Pyrgulopsis **n. sp. 18**	x
Stagnicola (Hinkleyia) montanensis **(Baker, 1913)**	regional
Stagnicola (Stagnicola) hinkleyi **(Baker, 1906)**	regional
Valvata ufahensis **Call, 1884**	x

TABLE 23. TERRESTRIAL MOLLUSK SPECIES OF SPECIAL CONCERN, CLEARWATER DRAINAGE, IDAHO.

NAME	ENDEMIC STATUS
LAND	
Allogona lombardii Smith, 1943	x
Allogona ptychophora solida Vanatta, 1924	x
Anguispira nimapuna Baker, 1932	**x**
Cryptomastix (Cryptomastix) magnidentata (Pilsbry, 1940)	**x**
Cryptomastix (C.) mullani tuckeri (Pilsbry & Henderson, 1930)	**x**
Cryptomastix (Cryptomastix) n. sp. 1	**x**
Hemphillia camelus Pilsbry & Vanatta, 1897	x
Oreohelix n. sp. 25	x
Oreohelix strigosa goniogyra Pilsbry, 1933	x
Polygyrella polygyrella (Bland & Cooper, 1861)	regional
Pristiloma (Pristinopsis) idahoense (Pilsbry, 1902)	x
Radiodiscus (Radiodomus) abietum Baker, 1930	regional
Udosarx lyrata lyrata Webb, 1959	x
Zacoleus idoensis Pilsbry, 1903	x

TABLE 24. N. WASHINGTON-IDAHO PANHANDLE TERRESTRIAL MOLLUSK SPECIES OF SPECIAL CONCERN.

NAME	ENDEMIC STATUS
LAND	
Cryptomastix (Cryptomastix) mullani blandi (Hemphill, 1892)	**x**
Cryptomastix (Cryptomastix) sanburni (Binney, 1886)	**x**
Hemphillia camelus Pilsbry & Vanatta, 1897	x
Magnipelta mycophaga Pilsbry, 1953	x
Polygyrella polygyrella (Bland & Cooper, 1861)	regional
Pristiloma (Pristinopsis) idahoense (Pilsbry, 1902)	x
Radiodiscus (Radiodomus) abietum Baker, 1930	regional
Udosarx lyrata lyrata Webb, 1959	x
Zacoleus idahoensis Pilsbry, 1903	x

TABLE 25. MOLLUSK SPECIES OF SPECIAL CONCERN, BITTERROOT & FLATHEAD DRAINAGES, MONTANA.

NAME	ENDEMIC STATUS
LAND	
Hemphillia danielsi Vanatta, 1914	x
Magnipelta mycophaga Pilsbry, 1953	x
Oreohelix amariradix Pilsbry, 1902	x
Polygyrella polygyrella (Bland & Cooper, 1861)	regional
Radiodiscus (Radiodomus) abietum Baker, 1930	regional
FRESHWATER	
Amnicola n.sp. 1	x
Promenetus exacuous megas (Dall, 1905)	regional
Stagnicola (Hinkleyia) montanensis (Baker, 1913)	regional
Stagnicola (Stagnicola) elrodi (Baker & Henderson,1933)	x
Valvata tricarinata (Say, 1817)	regional

TABLE 26. MOLLUSK SPECIES OF SPECIAL CONCERN, CLARK FORK DRAINAGE, MONTANA

NAME	ENDEMIC STATUS
LAND	
Oreohelix amariradix Pilsbry, 1934	x
Oreohelix carinifera Pilsbry, 1912	x
Oreohelix n. sp. 3	x
Oreohelix n. sp. 4	x
Oreohelix n. sp. 5	x
Oreohelix n. sp. 6	x
Oreohelix n. sp. 7	x
Oreohelix n. sp. 10	x
Oreohelix n. sp. 31	x
Udosarx lyrata russelli Webb, 1980	x
FRESHWATER	
Promenetus exacuous megas (Dall, 1905)	regional
Stagnicola (Hinkleyia) montanensis (Baker, 1913)	regional
Stagnicola (Stagnicola) elrodi (Baker & Henderson,1933)	x

TABLE 27. MOLLUSK SPECIES OF SPECIAL CONCERN, MISSION MOUNTAINS, MONTANA.

NAME	ENDEMIC STATUS
LAND	
Discus brunsoni Berry, 1955	x
Oreohelix alpina (Elrod, 1901)	x
Oreohelix elrodi (Pilsbry, 1900)	x
Oreohelix n. sp. 11	x
Radiodiscus (Radiodomus) abietum Baker, 1930	regional
FRESHWATER	
Stagnicola (Hinkleyia) montanensis (Baker, 1913)	regional
Stagnicola (Stagnicola) elrodiana (Baker & Henderson, 1933)	x

TABLE 28. FRESHWATER MOLLUSK SPECIES OF SPECIAL CONCERN, JACKSON LAKE, WYOMING.

NAME	ENDEMIC STATUS
FRESHWATER	
Anodonta californiensis Lea, 1856	regional
Helisoma (Carinifex) newberryi jacksonensis (Henderson, 1932)	x
Pyrgulopsis robusta (Walker, 1908)	x
Stagnicola (Hinkleyia) montanensis (Baker, 1913)	regional
Stagnicola (Stanicola) hinkleyi (Baker, 1906)	regional

FIGURES

FIGURES

FIGURE 1. MAP OF ASSESSMENT AREA.

Black line marks Interior Columbia River Basin assessment area, including Columbia River drainage east of the Cascades crest, plus the Upper Klamath Lake Basin and Interior Oregon Basins (eastern Washington and Oregon). Forest Service and BLM lands are indicated by dark and light stipple respectively. Map from SIT (1994).

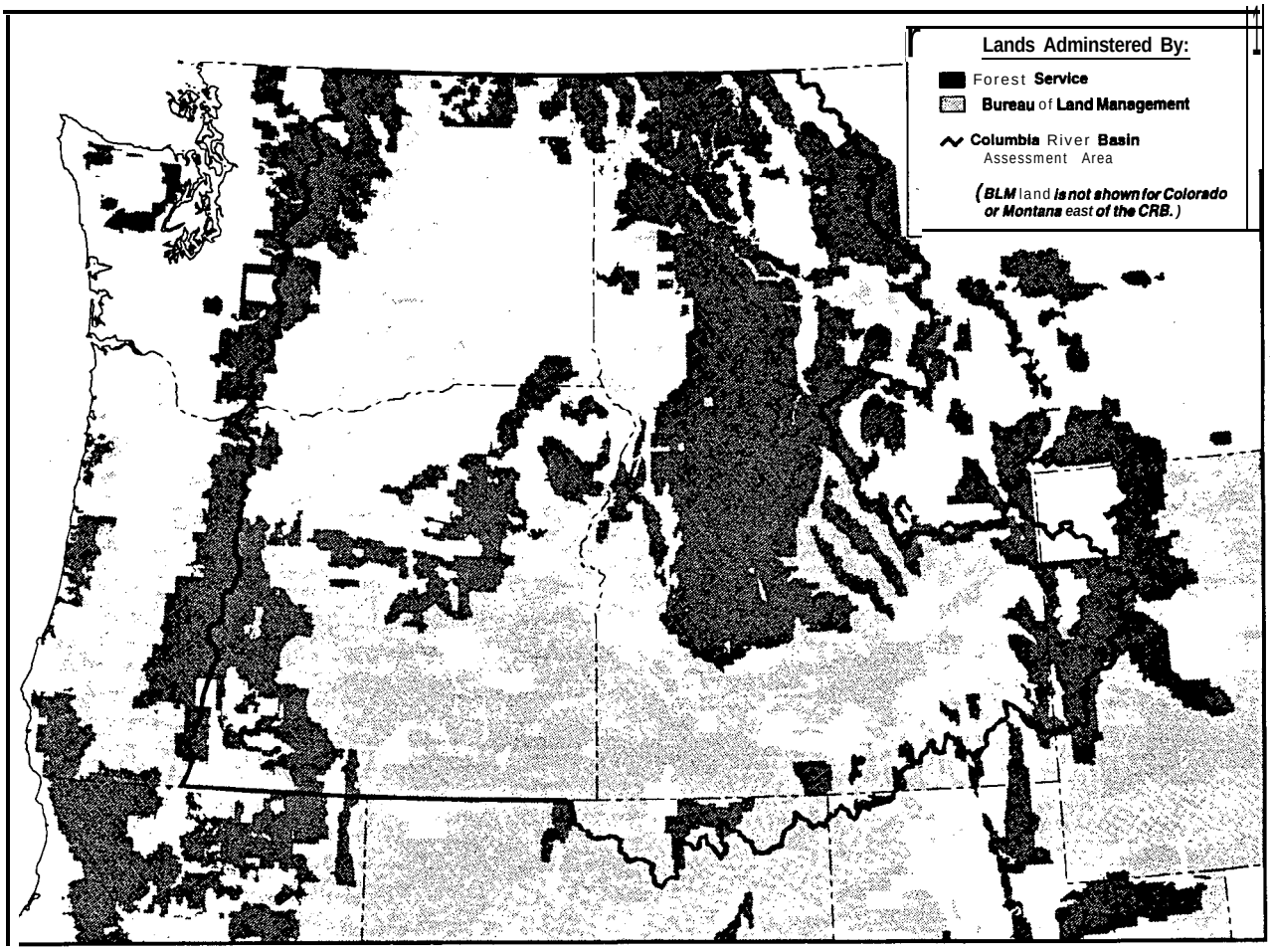

FIGURE 1. MAP OF ASSESSMENT AREA.

FIGURE 2. LAND MOLLUSK BIOGEOGRAPHY OF NORTH AMERICA.

Modified from Pilsbty (1948) and Bequaert & Miller (1973). For another version, see Burch & Pearce (1990).

Regular Stipple-Eastern North American Division

N - Northern Province

I - Interior Province

cu - Cumberlandian Province

A - Austroriparian Province

T - Texan Province

Irregular stipple- Western North American Division

0 - Oregonian Province

W - Washingtonian Province

Ca - Californian Province

RM - Rocky Mountain Province

S - Southwestern Province

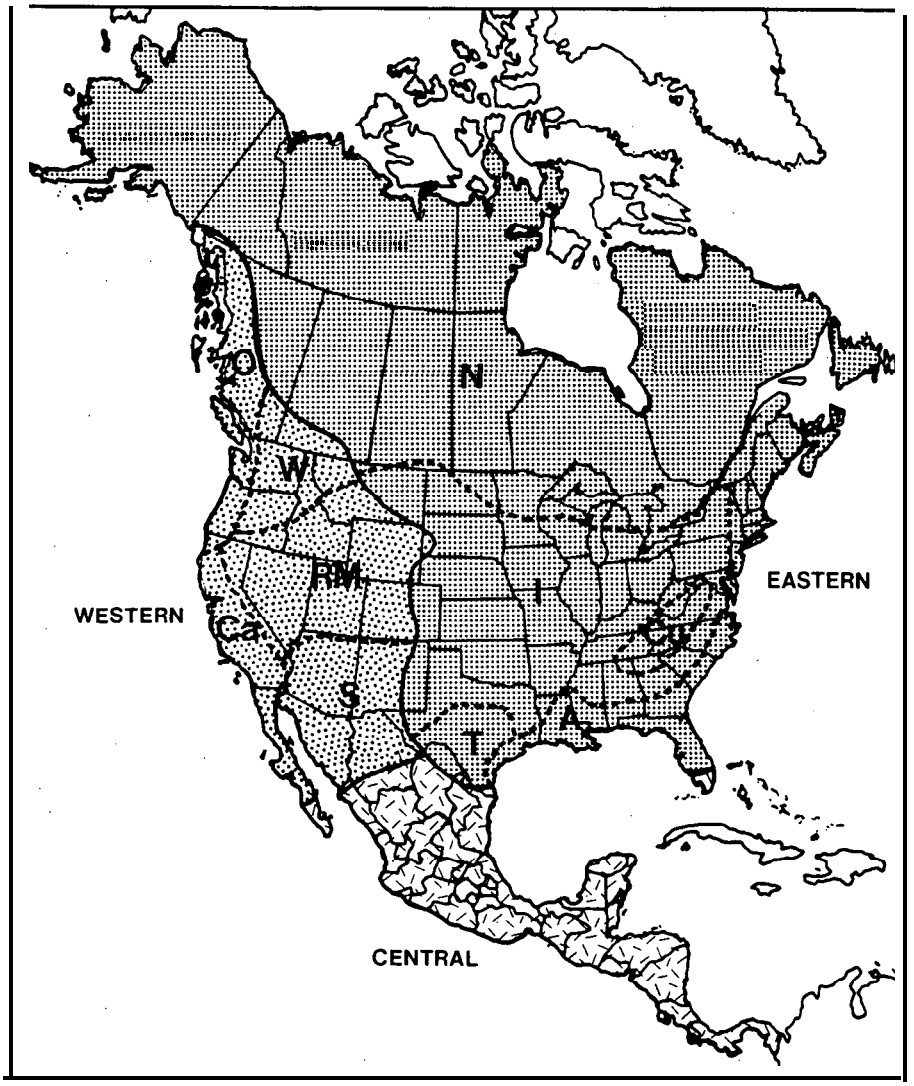

FIGURE 2. LAND MOLLUSK BIOGEOGRAPHY OF NORTH AMERICA.

FIGURE 3. FRESHWATER MUSSEL PROVINCES OF NORTH AMERICA.

Major freshwater mussel provinces in North America; modified slightly from Taylor (1988b), Van der Schalie & Van der Schalie (1950), and Johnson (1970, 1972). Note large area of western U.S. with no large freshwater mussels (stipple).

P - Pacific

M - Mississippian

NA - North Atlantic

C - Cumberlandian

0 - Ozarkian

SA - South Atlantic

A - Apalachicolan

PF - Peninsular Florida

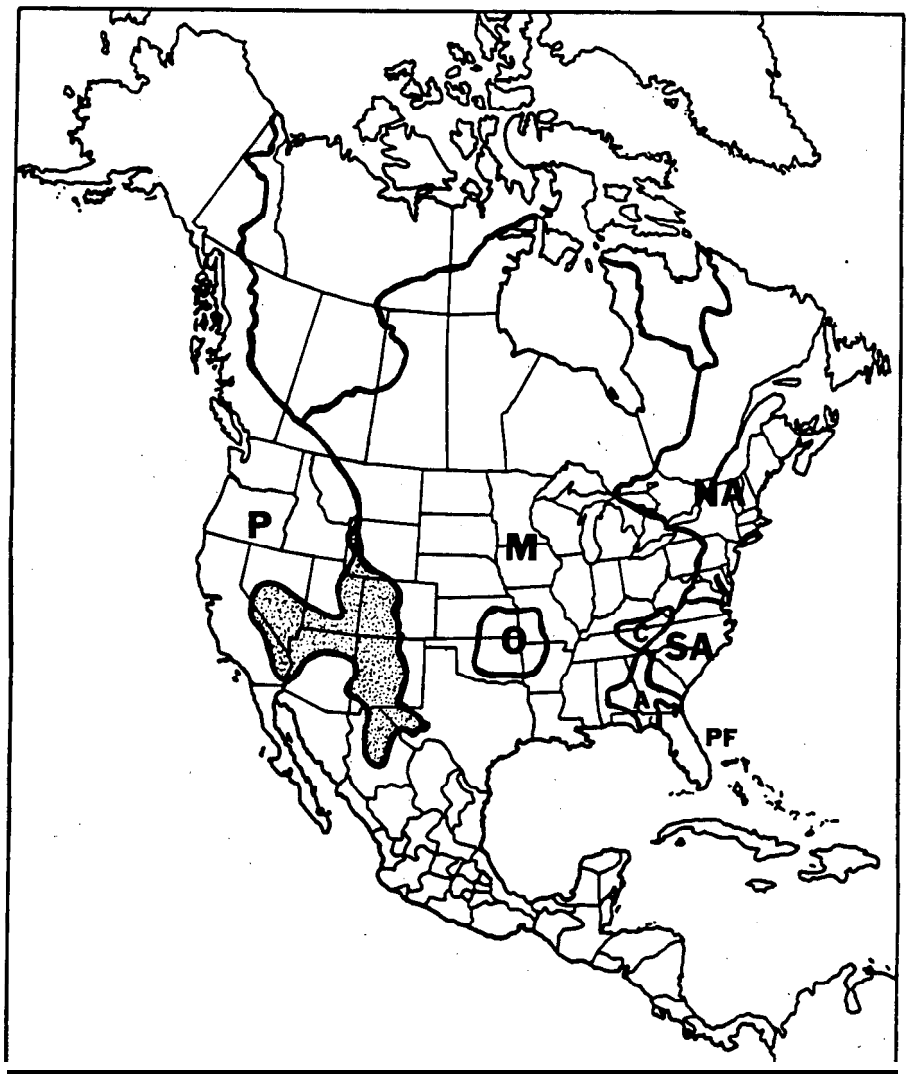

FIGURE 3. FRESHWATER MUSSEL PROVINCES OF NORTH AMERICA.

FIGURE 4. MAP OF MODERN DRAINAGES IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Modern drainage basins in part of the western U.S., including the assessment area. Major basins are named; current boundaries are indicated by red lines.

FIGURE 5. MAP OF MIOCENE DRAINAGES IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Blue arrows indicate major former drainage connections. Dashes delineate drainage corridors or basin boundaries, as far as currently known. Black bars indicate drainage divides now crossed by contemporary streams. Modified slightly from Taylor (1985a).

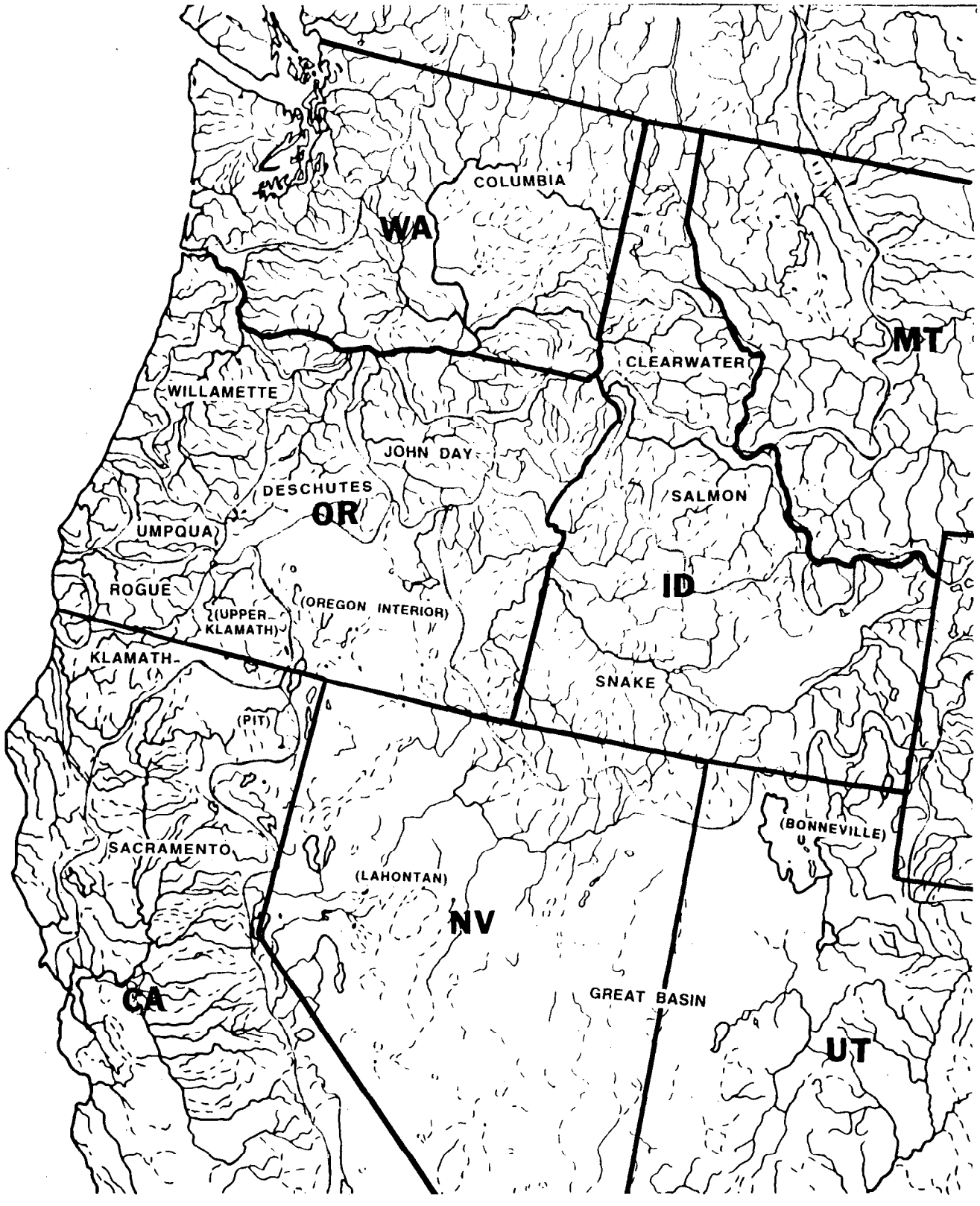

FIGURE 4. MAP OF MODERN DRAINAGES IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

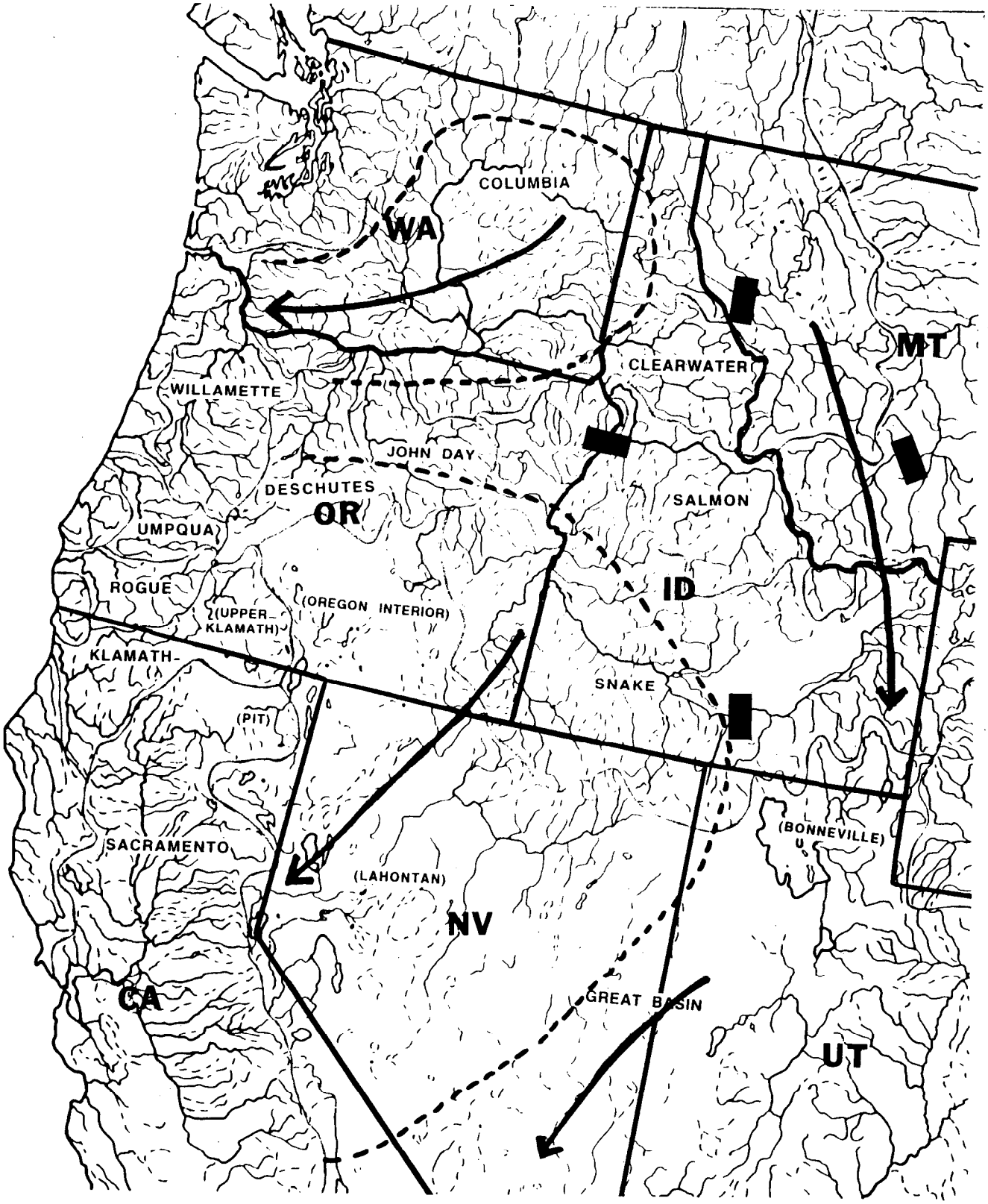

FIGURE 5. MAP OF MIOCENE DRAINAGES IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

FIGURE 6. MAP OF LATE PLIOCENE-EARLY PLEISTOCENE DRAINAGES IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Blue arrows indicate major former drainage connections. Dashes delineate drainage corridors or basin boundaries, as far as currently known. Black bars indicate drainage divides now crossed by contemporary streams. Modified slightly from-Taylor (1985a).

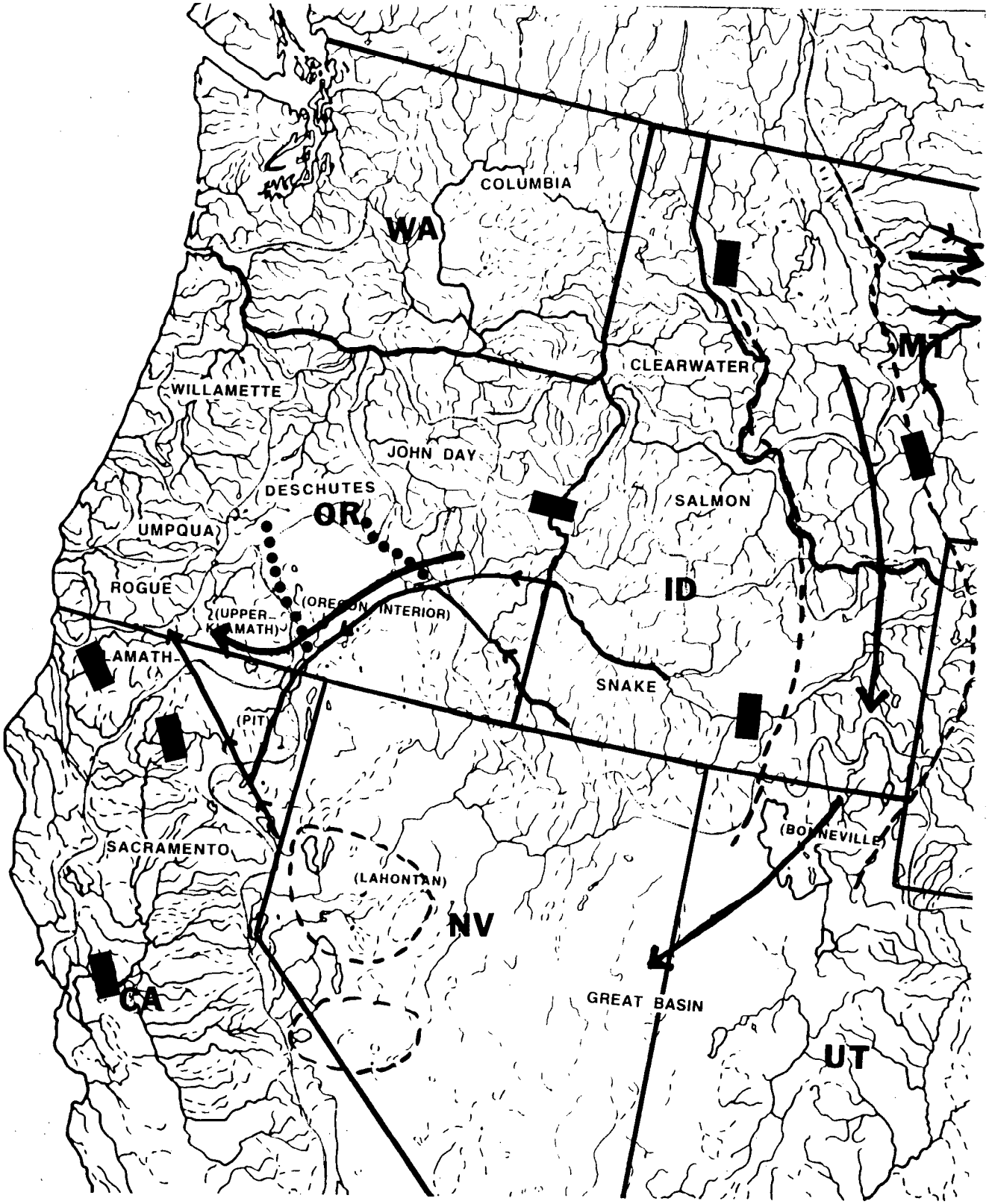

FIGURE 6. MAP OF LATE PLIOCENE-EARLY PLEISTOCENE DRAINAGES IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

FIGURE 7. REGIONS WITH SUBSTANTIAL TERRESTRIAL MOLLUSK ENDEMICITY IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Dark green areas are endemic regions within the assessment area. Mustard-colored areas are adjacent endemic regions.

Abbreviations for endemic regions:

- **WC** - Washington eastern Cascades
- **CG** - Columbia Gorge, Washington & Oregon
- **LD** - Lower Deschutes River drainage, Oregon
- **UK** - Upper Klamath Lake drainage, Oregon
- **NW** - Northeastern Washington-Idaho Panhandle
- **BM** - Blue Mountains, Washington and Oregon
- **HC** - Hells Canyon, Idaho, Oregon, & Washington
- **LS** - Lower Salmon River, Idaho
- **CR** - Clearwater River drainage, Idaho
- **BF** - Bitterroot and Flathead drainages, Montana
- **CF** - Clark Fork drainage, Montana
- **MM** - Mission Mountains and vicinity, Montana
- **SI** - Southeastern Idaho (Snake River drainage)

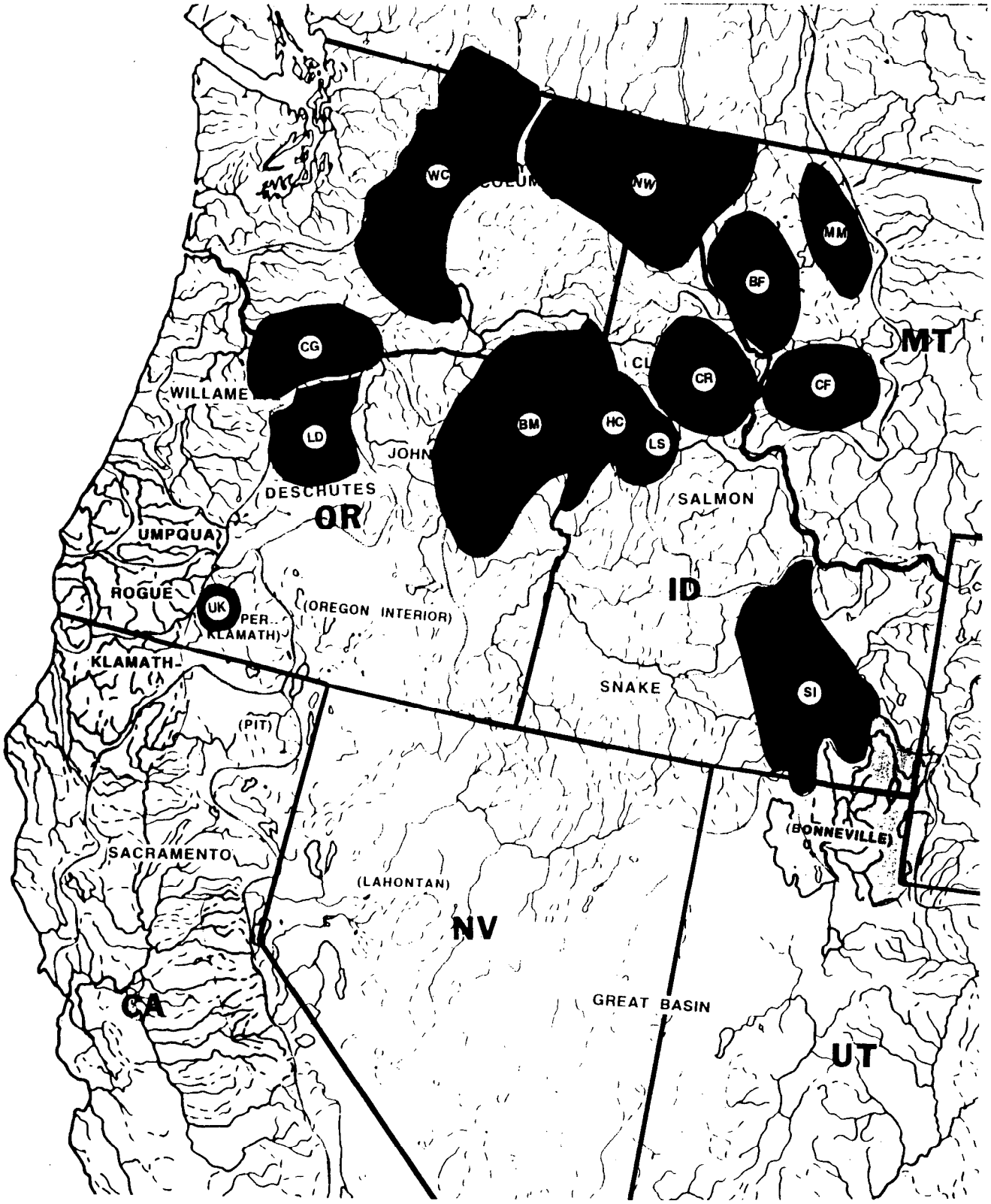

FIGURE 7. REGIONS WITH SUBSTANTIAL TERRESTRIAL MOLLUSK ENDEMICITY IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

FIGURE 8. REGIONS WITH SUBSTANTIAL FRESHWATER MOLLUSK ENDEMICITY IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Olive green areas are endemic regions within the assessment area. Mustard-colored areas are adjacent endemic regions.

Abbreviations for endemic regions:

- **LC** - Lower Columbia River, Washington and Oregon
- **CG** - Columbia Gorge, Washington & Oregon
- **LD** - Lower Deschutes River drainage, Oregon
- **UK** - Upper Klamath Lake drainage, Oregon
- **OI** - Oregon Interior Basins
- **BM** - Blue Mountains, Washington and Oregon
- **NM** - Northern Washington, Northern Idaho, & Northwestern Montana
- **MS** - Middle Snake River drainage, Idaho
- **SI** - Southeastern Idaho (Snake River drainage)
- **JL** - Jackson Lake, upper Snake River drainage, Wyoming

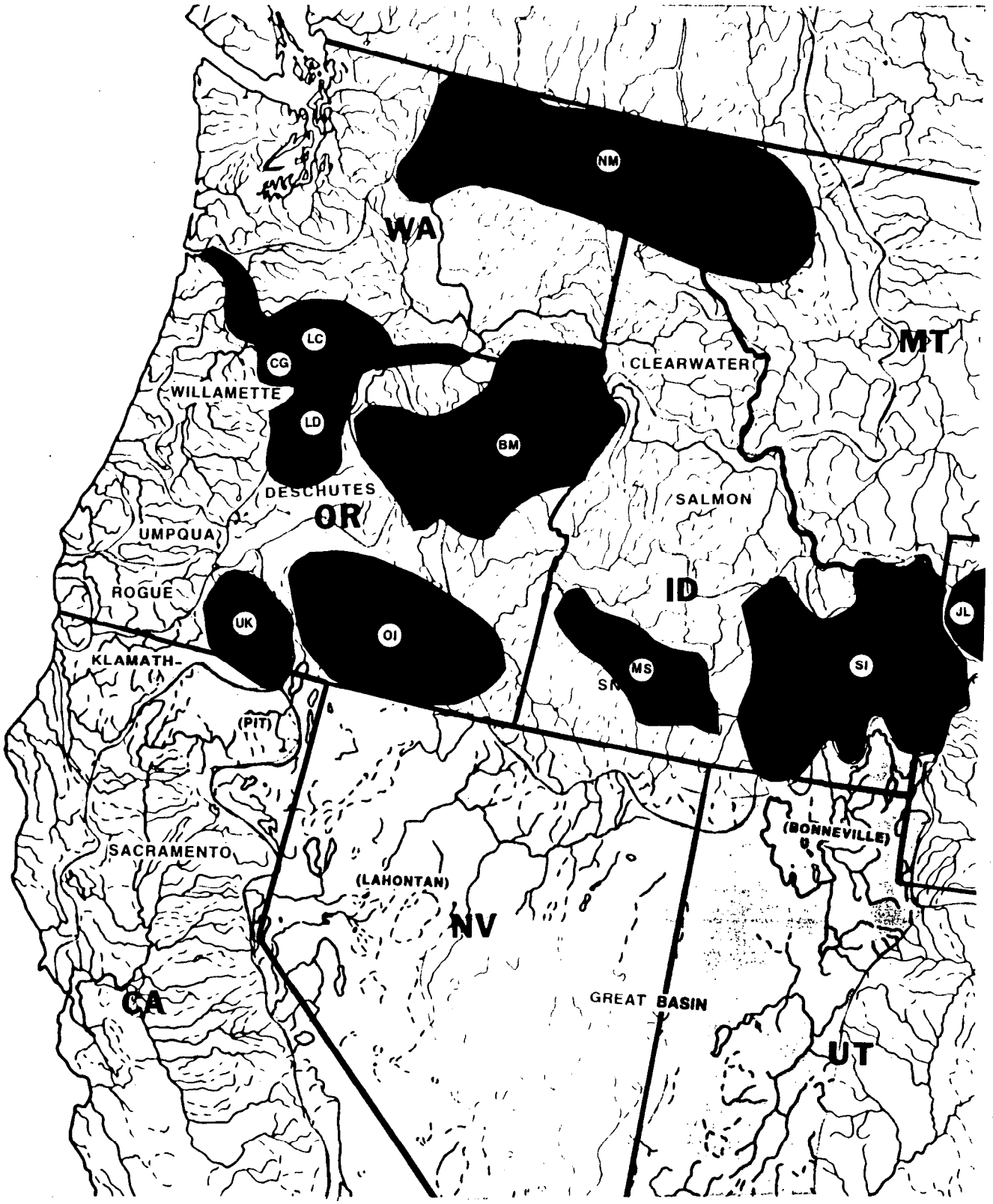

FIGURE 8. REGIONS WITH SUBSTANTIAL FRESHWATER MOLLUSK ENDEMICITY IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

FIGURE 9. DISTRIBUTION OF THE LAND SNAIL GENUS *OREOHELIX* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Red color indicates known distribution of *Oreohelix*. This includes many endemic species clusters, as well as distribution of more widespread taxa, such *as Oreohelix strigosa depressa (s.l.)* and *Oreohelix subrudis (s.l.).*

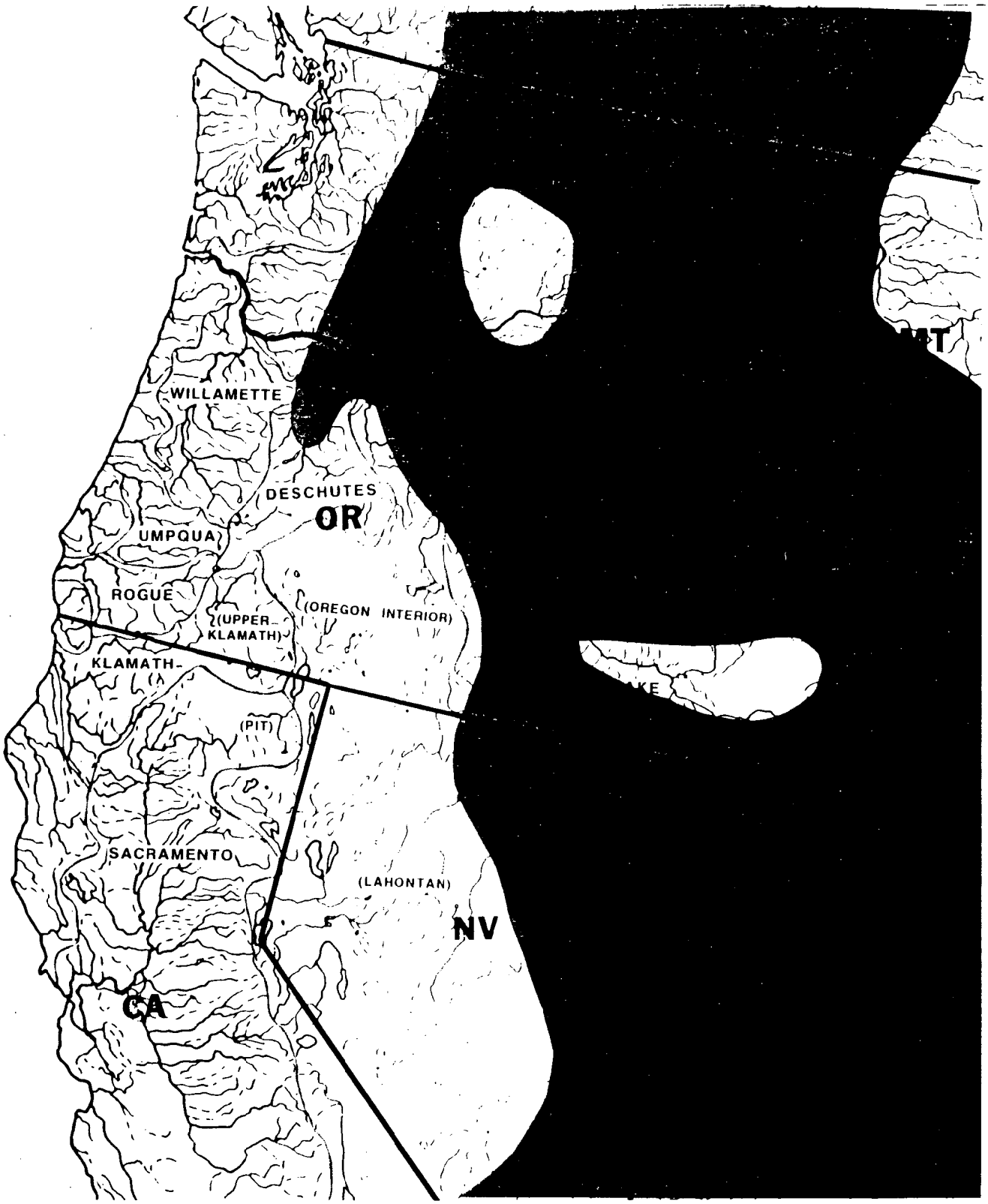

FIGURE 9. DISTRIBUTION OF THE LAND SNAIL GENUS *OREOHELIX* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

FIGURE 10. DISTRIBUTION OF THE LAND SNAIL GENUS *CRYPTOMASTIX* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Brown indicates area with species belonging to this genus (*s.l.*). Areas to the west of the Cascades mostly represent different species than those of the east. Several endemic species clusters are found in the eastern area.

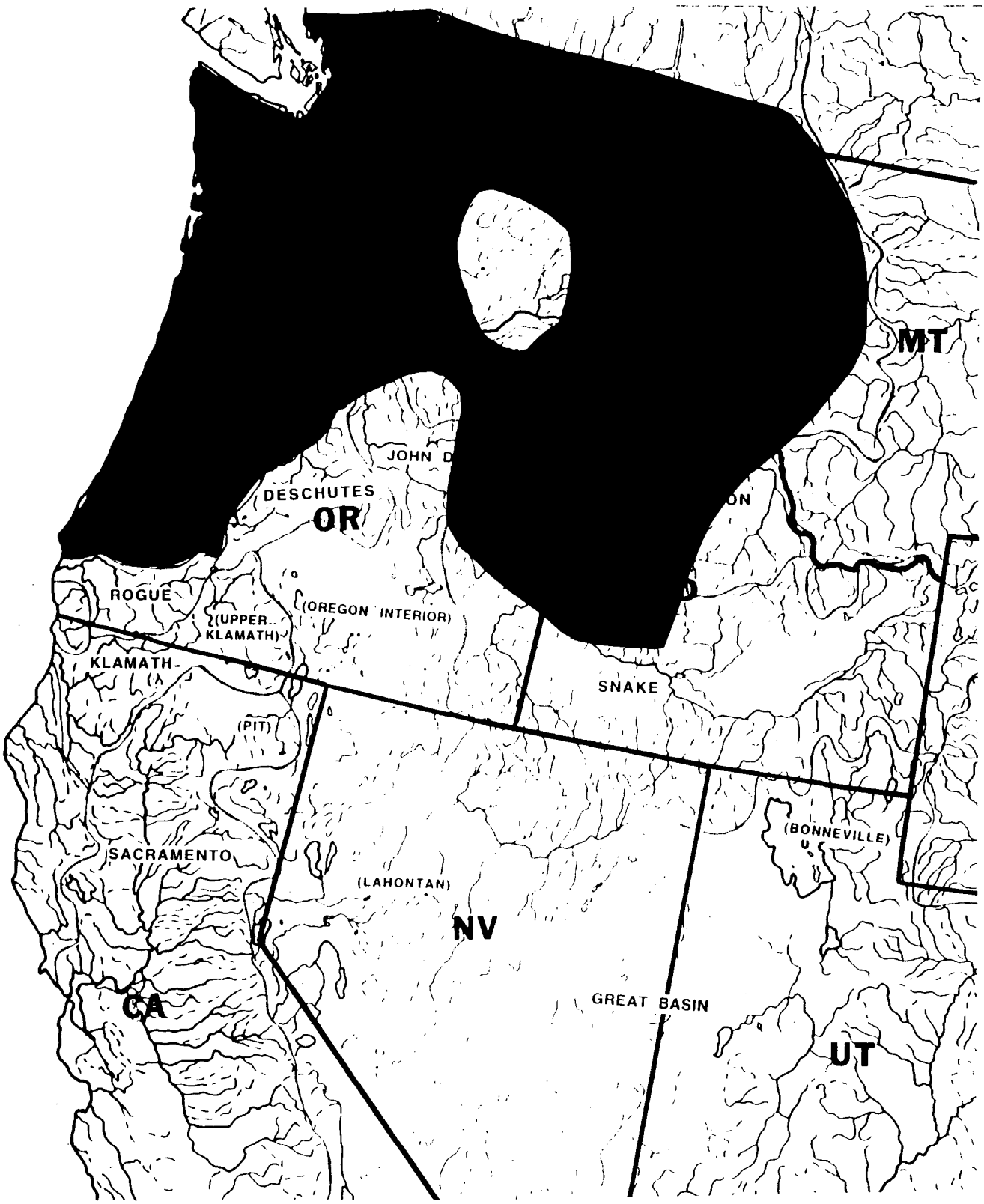

FIGURE 10. DISTRIBUTION OF THE LAND SNAIL GENUS *CRYPTOMASTIX* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

FIGURE 11. DISTRIBUTION OF THE SLUG GENUS *HEMPHILLIA* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Mustard color indicates areas with species of this genus (*s.l.*). In general, species are different on the Cascades side, as compared to those on the flanks of the Rocky Mountains.

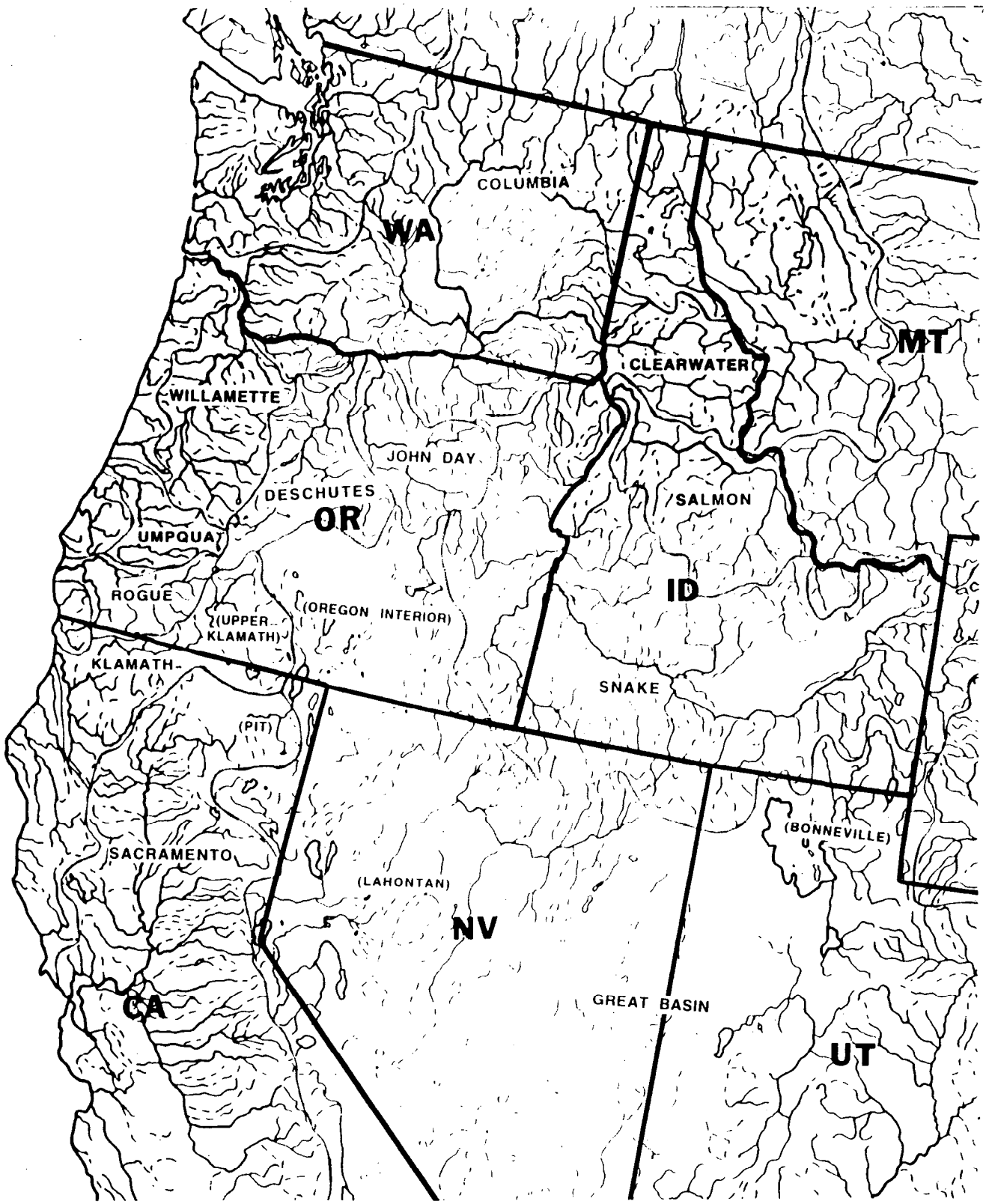

FIGURE 11. DISTRIBUTION OF THE SLUG GENUS *HEMPHILLIA* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

FIGURE 12. DISTRIBUTION OF THE FRESHWATER SNAIL (HYDROBIID) GENUS *PYRGULOPSIS* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Red color indicates areas with this species. Within this area are numerous endemic clusters. Notable are those in the Upper Snake River drainage; Bonneville Basin (including Bear River drainage); NE California and NW Nevada; Death Valley: Ash Meadows and Pahranagat Valley; Oregon Interior Basins; and other areas in northeastern Nevada.

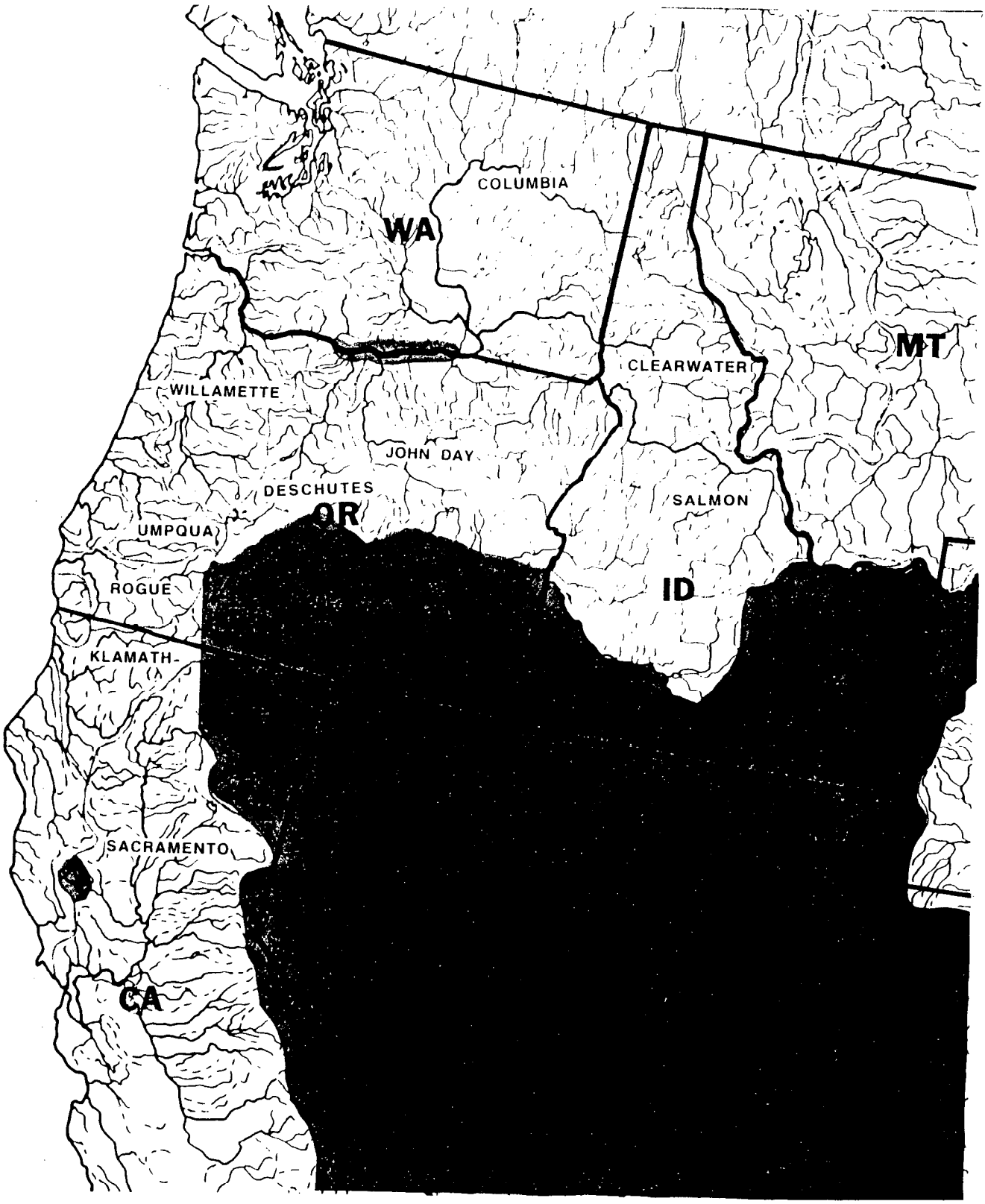

FIGURE 12. DISTRIBUTION OF THE FRESHWATER SNAIL (HYDROBIID) GENUS *PYRGULOPSIS* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

FIGURE 13. DISTRIBUTION OF THE FRESHWATER SNAIL (HYDROBIID) GENUS *LYOGYRUS* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Green color indicates areas with this genus. Members of the major endemic regions (larger patches) are often quite distinct, with little overlap between other such regions.

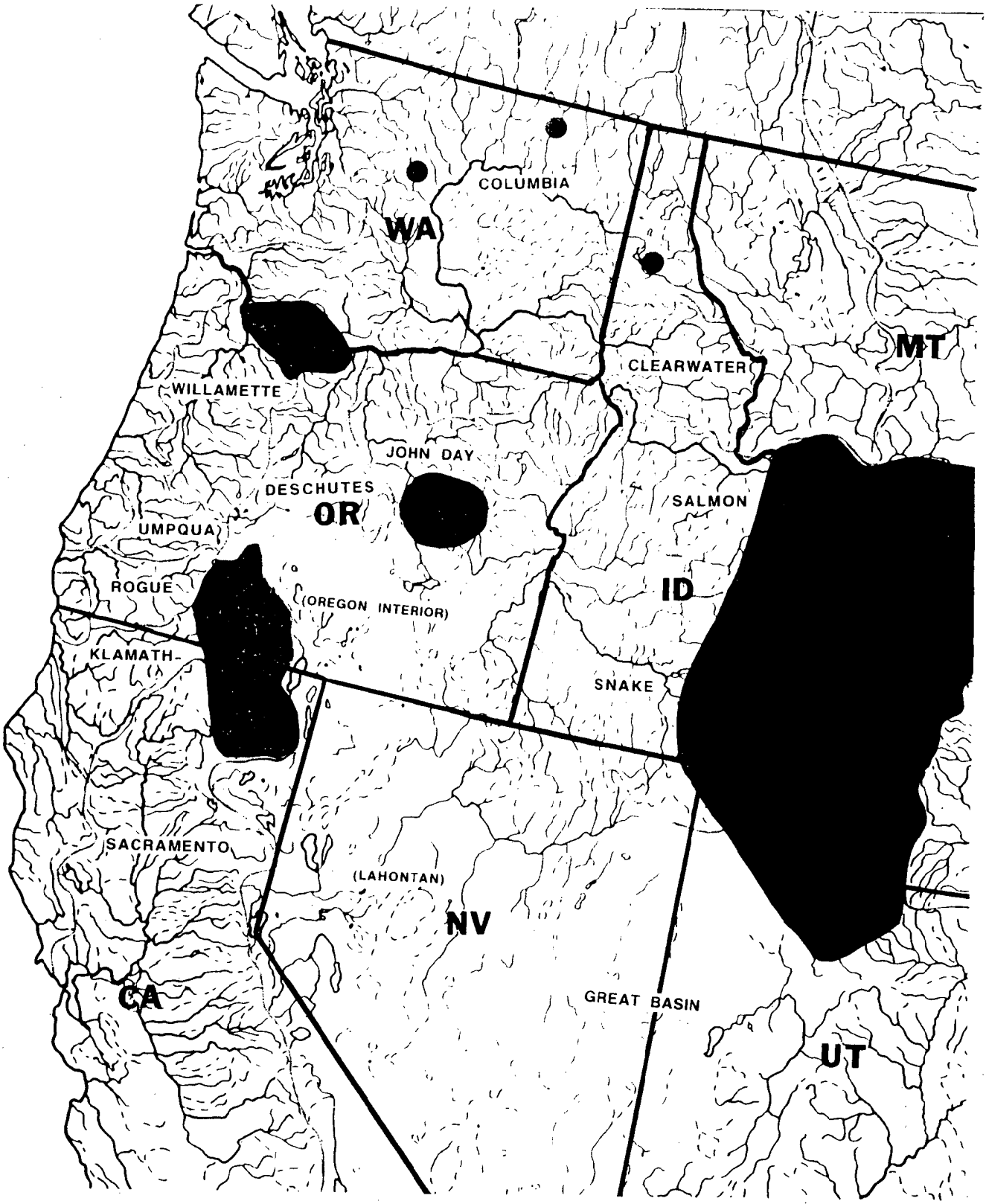

FIGURE 13. DISTRIBUTION OF THE FRESHWATER SNAIL (HYDROBIID) GENUS *LYOGYRUS* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

FIGURE 14. DISTRIBUTION OF THE LARGE SPECIES OF THE FRESHWATER SNAIL (HYDROBIID) GENUS *FLUMINICOLA* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Blue color indicates known distribution of larger species of this genus (*s.l.*). Several endemic species clusters occur within this area. In general, Cascades-Coast Range species of Western Washington, western Oregon, and northern California are different from those in eastern Washington, Idaho, and parts of Wyoming and Utah.

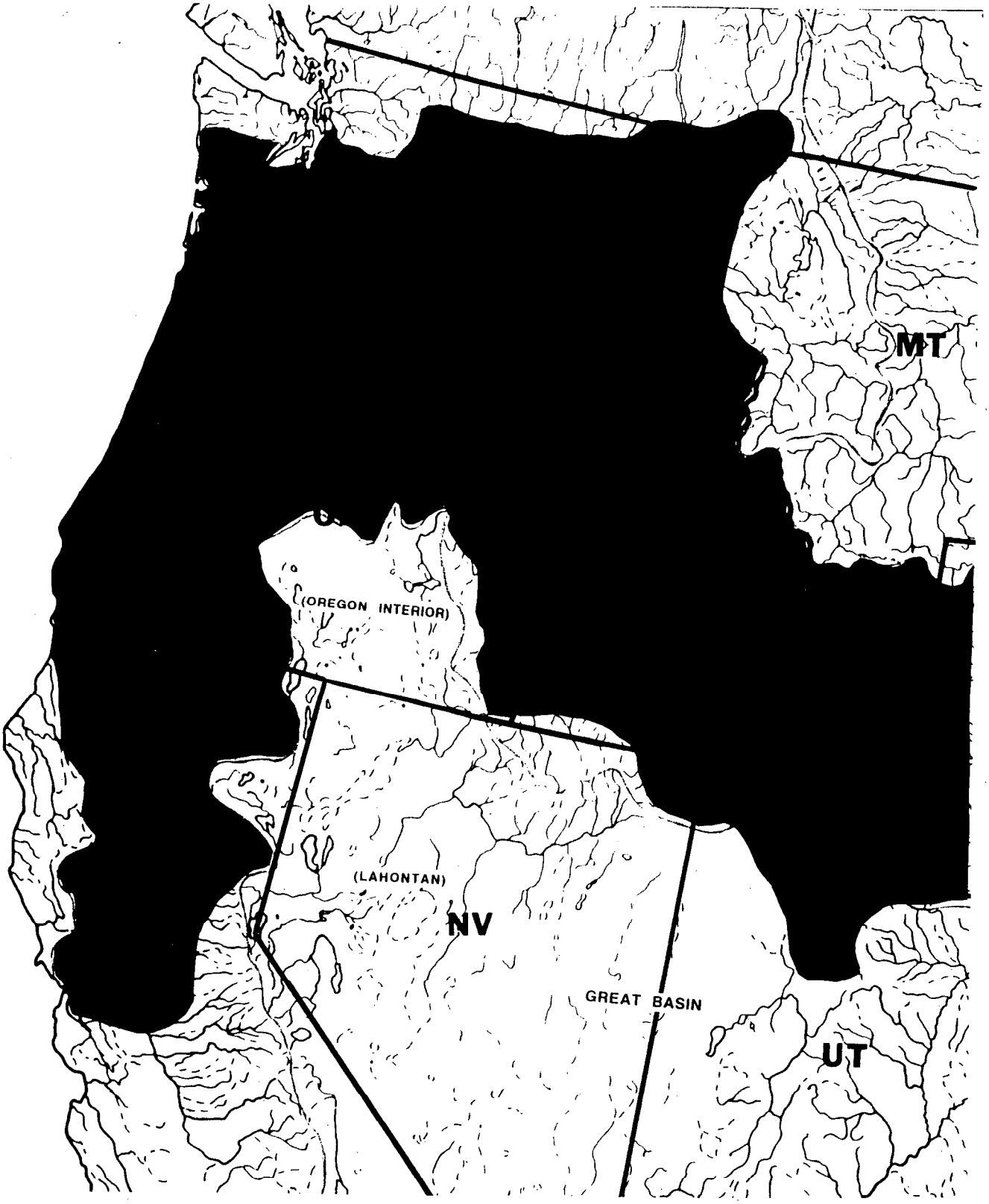

FIGURE 14. DISTRIBUTION OF THE LARGE SPECIES OF THE FRESHWATER SNAIL (HYDROBIID) GENUS *FLUMINICOLA* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

FIGURE 15. DISTRIBUTION OF THE SMALL SPECIES OF THE FRESHWATER SNAIL (HYDROBIID) GENUS *FLUMINICOLA* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Magenta color delineates known distribution of small species of the genus *Fluminicola* (*s.l.*). Wiihin this area are several endemic species clusters. Notable are those of the Upper Sacramento-Pit River drainage; Upper Klarnath Lake drainage; Deschutes drainage: and Great Basin periphery, including Oregon Interior Basins.

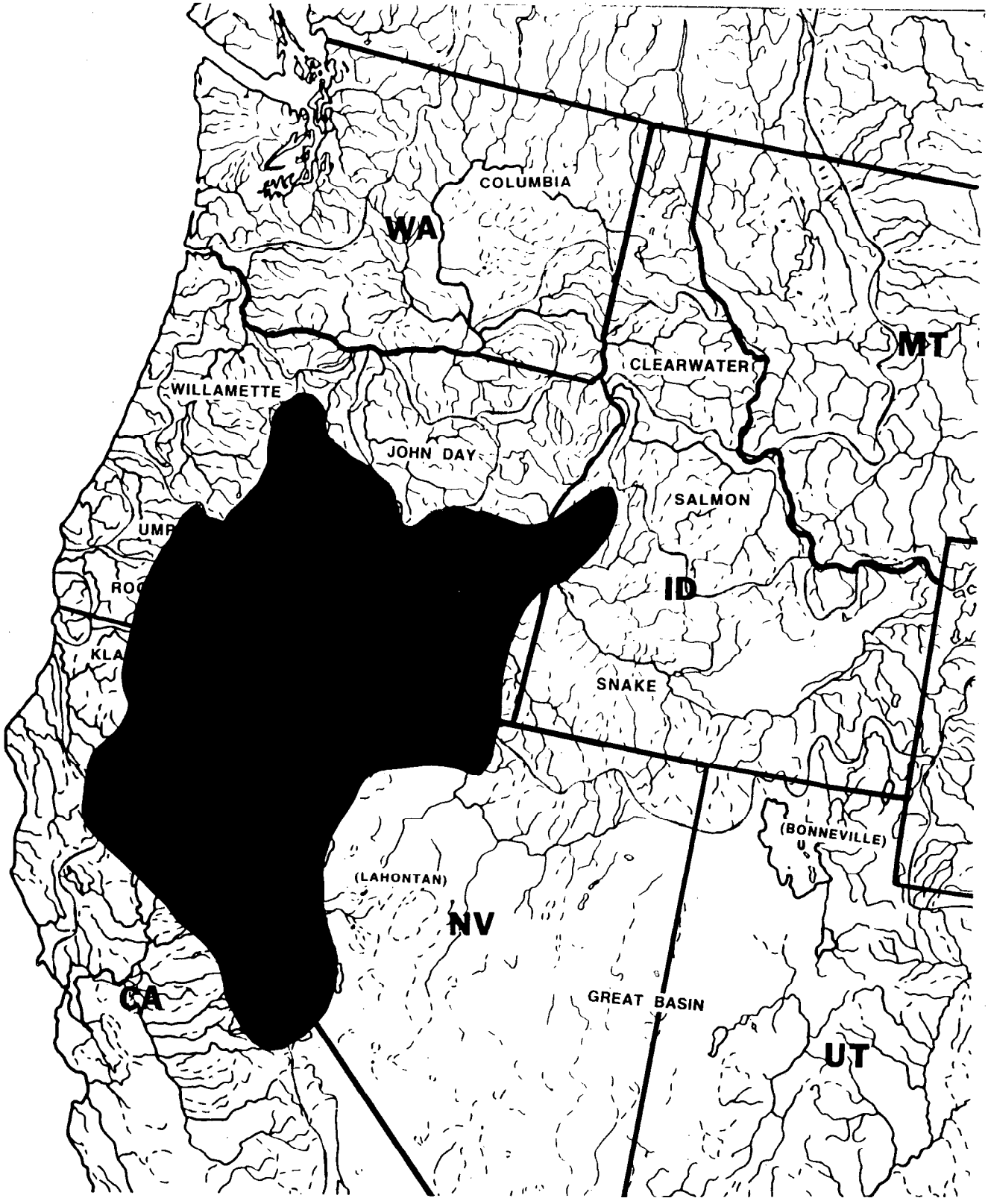

FIGURE 15. DISTRIBUTION OF THE SMALL SPECIES OF THE FRESHWATER SNAIL (HYDROBIID) GENUS *FLUMINICOLA* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

FIGURE 16. DISTRIBUTION OF THE FRESHWATER SNAIL *HELISOMA (CARINIFEX) NEWBERRYI* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Yellow dots indicate live sites for this taxon, including all described subspecies; Pliocene-Pleistocene fossil sites are indicated by black dots. This distribution is an example of the fish-hook pattern (peripheral Great Basin; *utahensis-newberryi*) of Taylor (1985a) and Taylor & Bright (1987).

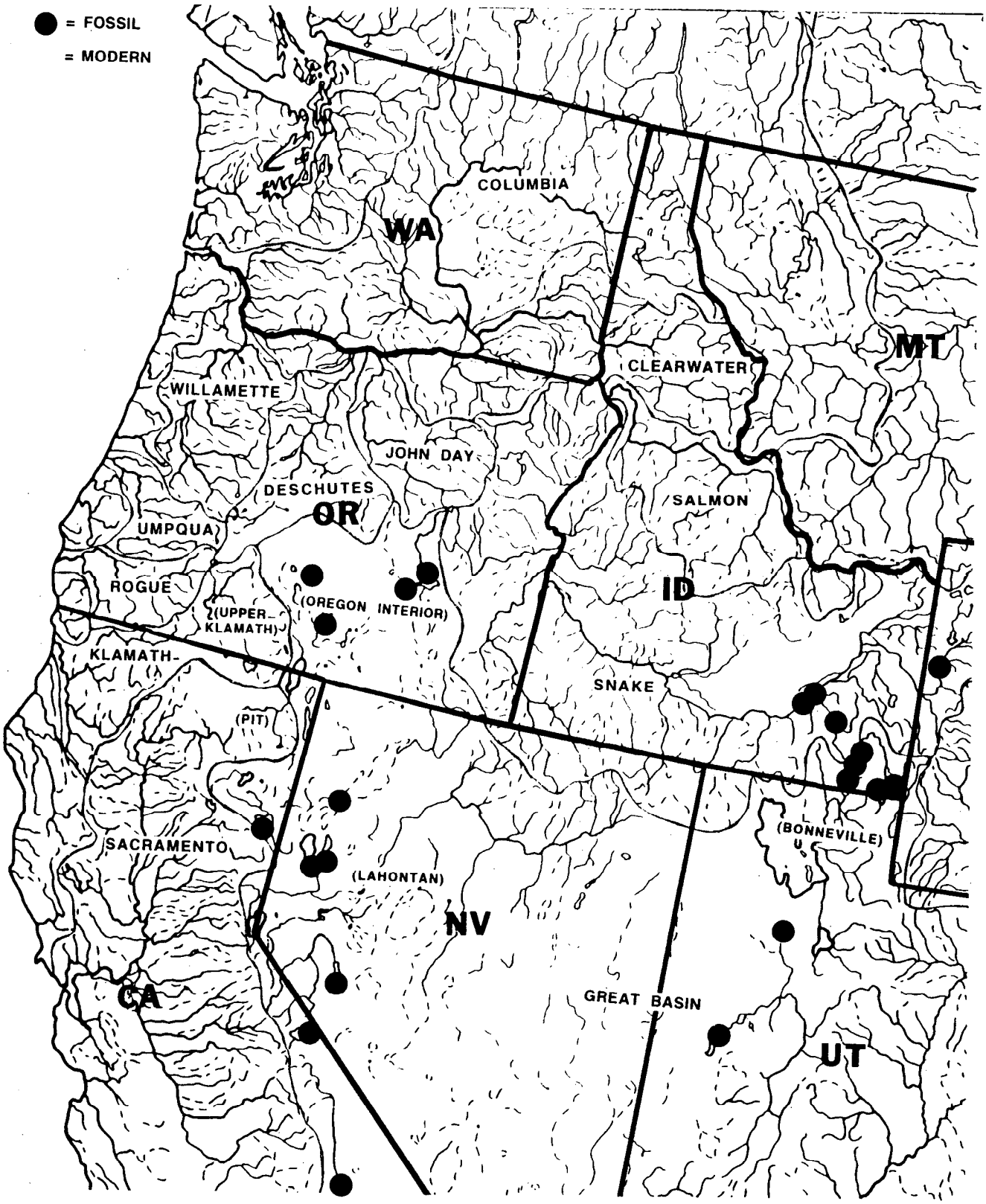

FIGURE 16. DISTRIBUTION OF THE FRESHWATER SNAIL *HELISOMA (CARINIFEX) NEWBERRYI* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

FIGURE 17. DISTRIBUTION OF THE FRESHWATER BIVALVE (SPHAERIID) *PISIDIUM ULTRAMONTANUM* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

Orange dots indicate live sites for this taxon; Pliocene-Pleistocene fossil sites are indicated by black dots. This distribution is an example of the fish-hook pattern (peripheral Great Basin; *utahensis-newberryi*) of Taylor (1985a) and Taylor & Bright (1987).

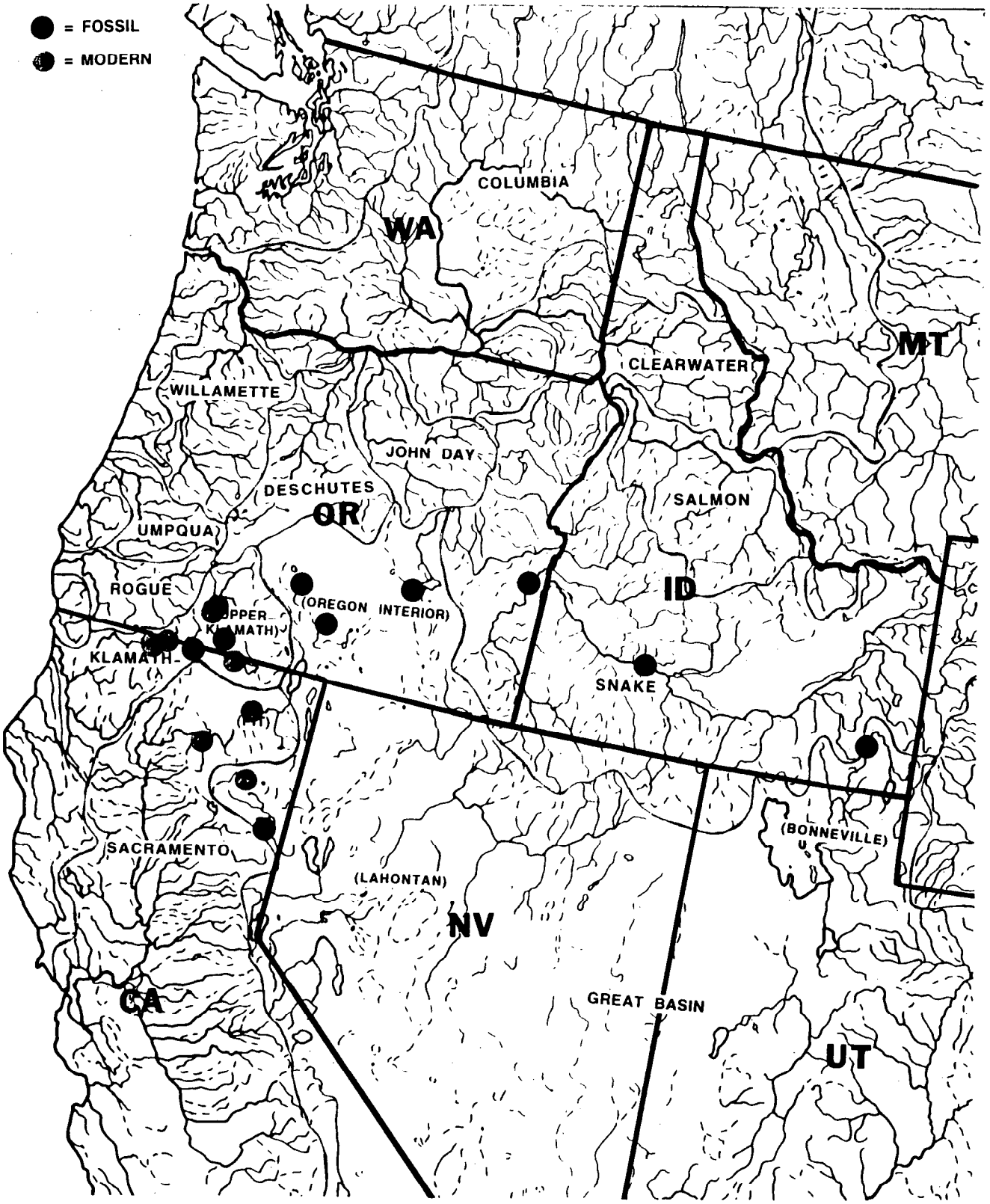

FIGURE 17. DISTRIBUTION OF THE FRESHWATER BIVALVE (SPHAERIID) *PISIDIUM* *ULTRAMONTANUM* IN THE ASSESSMENT AREA AND ADJOINING PORTIONS OF THE WESTERN UNITED STATES.

DISCLAIMER

This report was prepared by Deixis Consultants as an account of work sponsored by agencies of the United States Government. Neither these agencies nor Deixis Consultants makes any warranty, expressed or implied, or assumes any legal liability for the accuracy, completeness, practicality, or usefulness of any information, or represents that its use would not infringe privately owned rights. This report is based upon information believed by its authors to be true and correct at the time of its preparation. Because the conditions of its application are beyond our control, Deixis Consultants assumes no responsibility for any consequences of the use of this report, or of actions or activities based upon this report. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government, or any agency thereof.