

Appendix xx. Proportional suitability of Luckiamute watershed (HUC # 1709000306) as potential breeding habitat for each terrestrial vertebrate species, early 1990's (source: Adamus et al., *in press*)

Note: Columns may not add across to 100% because not all habitat suitability ratings are shown. Percentages were estimated using species models applied to satellite imagery, so are very approximate and do not account for vertical habitat structure and fine-scale features such as snags, buildings, and rock ledges (see section xx for further explanation). Estimates of land ownership (public vs. private) also are approximate and based on early 1990's information.

	% of watershed that is <u>unsuitable</u> for the species		% of watershed that is <u>at least moderately suitable</u> for the species		% of watershed that is <u>most suitable</u> for the species	
	and is publicly owned	and is privately owned	and is publicly owned	and is privately owned	and is publicly owned	and is privately owned
Amphibians:						
Northwestern Salamander	93.32	4.38	1.24	.56	.03	.01
Long-Toed Salamander	78.29	3.91	1.27	.55	1.24	.54
Clouded Salamander	34.41	.94	25.60	2.00	.84	.14
Ensatina	30.11	.87	32.09	2.32	25.63	2.00
Dunn's Salamander	54.51	3.50	19.11	.79	19.01	.79
Western Red-Backed Salamander	36.65	1.00	41.97	3.04	25.20	1.99
Roughskin Newt	93.04	4.37	1.98	.58	.03	.01
Pacific Giant Salamander	93.13	4.84	1.24	.11	1.24	.11
Southern Torrent Salamander	90.03	4.62	4.82	.31	1.98	.14
Tailed Frog	85.22	3.98	8.09	.84	2.55	.31
Pacific Treefrog	16.61	1.21	14.63	.78	1.27	.55
Red-Legged Frog	93.21	4.38	1.84	.57	1.25	.54
Bullfrog	94.47	4.93	.03	.01	.03	.01
Reptiles:						
Painted Turtle	82.14	4.78	.43	.02	.41	.02
Western Pond Turtle	80.96	4.78	.49	.02	.46	.02
Northern Alligator Lizard	33.34	.93	27.97	1.74	8.34	.37
Southern Alligator Lizard	42.04	3.69	14.04	.21	4.93	.08
Western Fence Lizard	28.31	2.32	20.29	.64	5.45	.10
Western Skink	30.13	2.35	13.95	.42	5.41	.09
Rubber Boa	5.63	.13	39.39	2.01	10.63	.34
Racer	43.78	3.70	9.75	.16	5.91	.10
Sharptail Snake	42.07	3.67	10.18	.20	5.20	.08
Ringneck Snake	29.59	2.32	13.95	.42	5.41	.09
Gopher Snake	43.98	3.69	12.26	.23	5.91	.10
Northwestern Garter Snake	3.06	.07	42.27	2.61	14.77	.51
Common Garter Snake	2.76	.05	24.35	1.51	1.99	.58
Birds:						
Pied-Billed Grebe	94.48	4.92	.03	.01	.03	.01
American Bittern	94.48	4.92	.56	.03	.03	.01
Great Blue Heron	83.30	4.19	4.56	.29	.27	.03
Green Heron	86.07	4.43	2.79	.11	0.00	0.00
Canada Goose	92.07	4.33	.57	.03	.10	.01
Wood Duck	85.78	4.40	2.79	.11	0.00	0.00
Mallard	81.41	4.18	1.53	.05	.03	.01

	% of watershed that is <u>unsuitable</u> for the species		% of watershed that is <u>at least moderately suitable</u> for the species		% of watershed that is <u>most suitable</u> for the species	
	and is publicly owned	and is privately owned	and is publicly owned	and is privately owned	and is publicly owned	and is privately owned
Cinnamon Teal	94.48	4.92	.56	.03	.03	.01
Hooded Merganser	84.29	4.26	4.56	.29	.28	.03
Common Merganser	91.77	4.80	3.28	.15	.19	.02
Turkey Vulture	35.33	.95	17.97	.92	8.25	.36
Osprey	94.43	4.93	.05	.00	.02	.00
White-Tailed Kite	83.87	4.68	.10	.01	.03	.00
Northern Harrier	72.43	4.20	2.22	.58	.52	.02
Sharp-Shinned Hawk	27.39	.83	34.52	2.37	.84	.14
Cooper's Hawk	31.86	.88	25.43	1.56	.28	.03
Red-Shouldered Hawk	95.05	4.95	0.00	0.00	0.00	0.00
Red-Tailed Hawk	30.11	.87	9.55	.45	.15	.01
American Kestrel	82.47	4.51	4.43	.09	.04	.00
Ring-Necked Pheasant	63.51	4.06	27.48	.27	4.96	.08
Blue Grouse	36.60	1.00	24.12	1.83	4.59	.30
Ruffed Grouse	30.82	.87	26.40	1.62	18.70	1.24
Wild Turkey	32.15	2.15	30.01	1.63	6.43	.32
California Quail	75.27	4.02	5.65	.61	4.07	.07
Mountain Quail	31.46	.94	9.55	.53	.05	.01
Virginia Rail	88.39	4.30	1.30	.56	.48	.03
Sora	91.81	4.88	.50	.03	.48	.03
American Coot	95.02	4.94	.03	.01	.03	.01
Killdeer	69.62	4.68	2.54	.07	1.22	.01
Spotted Sandpiper	93.55	4.91	1.50	.04	.18	.01
Marbled Murrelet	93.34	4.33	1.71	.62	.22	.12
Rock Dove	93.74	4.94	1.09	.01	1.09	.01
Band-Tailed Pigeon	35.25	.95	40.94	2.97	.05	.00
Mourning Dove	60.71	2.74	6.99	.64	5.22	.08
Barn Owl	80.31	4.50	1.09	.01	1.09	.01
Western Screech-Owl	35.02	1.15	31.70	1.69	4.58	.17
Great Horned Owl	30.11	.87	9.55	.45	.15	.01
Northern Pygmy-Owl	41.80	1.27	22.29	1.75	.84	.14
Spotted Owl	50.40	1.63	6.67	.77	.84	.14
Barred Owl	43.54	1.31	6.76	.77	.84	.14
Long-Eared Owl	53.02	3.84	26.48	.77	.21	.02
Northern Saw-Whet Owl	34.70	.95	26.12	2.08	5.91	.62
Common Nighthawk	84.94	4.58	9.42	.37	1.22	.01
Vaux's Swift	68.06	2.93	2.15	.15	2.15	.15
Anna's Hummingbird	93.74	4.94	1.31	.01	1.09	.01
Rufous Hummingbird	27.43	.30	31.57	1.85	.05	.01
Belted Kingfisher	91.23	4.78	.19	.02	.19	.02
Acorn Woodpecker	86.97	4.73	5.91	.19	.12	.00
Red-Breasted Sapsucker	33.38	.91	32.14	2.32	18.74	1.23
Downy Woodpecker	61.44	2.74	6.51	.32	.25	.03
Hairy Woodpecker	35.33	.95	29.76	2.27	.84	.14
Northern Flicker	25.20	.25	41.64	2.70	.15	.01
Pileated Woodpecker	34.39	.92	36.01	2.57	.84	.14
Olive-Sided Flycatcher	41.80	1.27	9.30	.88	.26	.02
Western Wood-Pewee	54.31	2.41	8.96	.42	.21	.02

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Willow Flycatcher	81.73	3.99	13.31	.96	.82	.53
Hammond's Flycatcher	77.49	2.27	3.47	.82	1.85	.48
Pacific-Slope Flycatcher	34.29	.94	29.76	2.27	19.58	1.37
Western Kingbird	83.30	4.76	.20	.04	.11	.03
Horned Lark	70.60	4.70	2.00	.04	1.00	.01
Purple Martin	86.66	4.58	0.00	0.00	0.00	0.00
Tree Swallow	82.80	4.04	1.64	.07	.04	.00
Violet-Green Swallow	84.14	4.17	2.48	.05	1.14	.02
Northern Rough-Winged Swallow	91.71	4.80	.18	.01	.15	.00
Cliff Swallow	93.80	4.93	1.25	.02	1.09	.01
Barn Swallow	93.59	4.93	1.46	.02	1.09	.01
Gray Jay	90.63	4.09	1.31	.44	.03	.02
Steller's Jay	40.49	1.25	37.88	2.56	1.22	.16
Western Scrub-Jay	36.58	2.51	16.43	.53	6.30	.10
American Crow	83.58	4.64	3.47	.08	1.13	.02
Common Raven	41.26	1.24	13.83	1.17	1.22	.16
Black-Capped Chickadee	60.67	2.74	12.70	.94	1.09	.56
Chestnut-Backed Chickadee	40.53	1.26	29.81	2.28	.84	.14
Bushtit	52.47	2.38	7.49	.66	5.43	.10
Red-Breasted Nuthatch	40.49	1.25	40.94	2.97	.84	.14
White-Breasted Nuthatch	63.39	3.30	6.46	.32	.21	.02
Brown Creeper	38.14	1.29	32.14	2.32	.84	.14
Rock Wren	86.89	4.60	0.00	0.00	0.00	0.00
Bewick's Wren	53.37	2.42	9.39	.71	6.06	.61
House Wren	45.71	1.61	10.37	.32	1.30	.03
Winter Wren	35.38	.96	40.82	2.97	2.08	.27
Marsh Wren	93.64	4.39	.57	.03	.54	.02
American Dipper	94.19	4.85	.86	.10	.86	.10
Golden-Crowned Kinglet	40.75	1.26	29.81	2.28	.84	.14
Western Bluebird	55.94	3.71	8.38	.37	0.00	0.00
Townsend's Solitaire	90.64	4.66	4.41	.29	.04	.01
Swainson's Thrush	29.28	.34	44.17	3.52	18.86	1.24
Hermit Thrush	73.27	1.99	6.36	.86	.05	.00
American Robin	.98	.04	43.87	2.74	10.88	.80
Varied Thrush	90.63	4.09	.52	.22	.03	.02
Wrentit	85.82	4.56	8.98	.39	4.34	.17
Cedar Waxwing	52.47	2.38	12.78	.95	2.71	.12
European Starling	52.93	4.18	6.75	.11	1.53	.02
Cassin's Vireo	29.28	.34	19.08	1.26	.14	.01
Hutton's Vireo	34.55	.42	25.18	1.54	18.74	1.23
Warbling Vireo	54.35	2.41	19.23	1.40	.94	.54
Red-Eyed Vireo	94.60	4.93	.32	.01	.32	.01
Orange-Crowned Warbler	28.50	.33	13.69	.46	7.81	.23
Nashville Warbler	95.05	4.95	0.00	0.00	0.00	0.00
Yellow Warbler	84.62	4.03	.86	.53	.80	.52
Yellow-Rumped Warbler	88.20	4.18	.94	.15	.05	.01
Black-Throated Gray Warbler	35.38	.96	25.34	1.55	.14	.01

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Hermit Warbler	41.84	1.27	29.90	2.28	.84	.14
Macgillivray's Warbler	46.34	1.92	8.20	.36	8.15	.36
Common Yellowthroat	58.34	3.74	16.80	.79	.28	.03
Wilson's Warbler	35.99	.98	10.24	.55	.21	.01
Yellow-Breasted Chat	82.70	4.13	6.06	.61	5.77	.60
Western Tanager	35.33	.95	45.05	3.32	18.74	1.23
Black-Headed Grosbeak	29.06	.34	25.42	1.56	8.85	.41
Lazuli Bunting	84.74	4.13	7.07	.23	4.07	.07
Spotted Towhee	45.17	1.59	16.10	1.02	5.33	.09
Chipping Sparrow	54.69	2.93	6.19	.11	.05	.01
Vesper Sparrow	88.15	4.83	1.65	.04	.94	.04
Savannah Sparrow	63.24	4.08	22.11	.21	1.28	.04
Grasshopper Sparrow	89.51	4.87	.39	.00	.37	.00
Song Sparrow	4.23	.09	16.14	1.01	5.20	.60
White-Crowned Sparrow	76.47	3.86	6.76	.62	.05	.01
Dark-Eyed Junco	32.01	.56	24.73	2.16	8.24	.36
Red-Winged Blackbird	67.72	4.12	23.31	.76	1.81	.57
Western Meadowlark	67.03	4.66	1.00	.04	.94	.04
Yellow-Headed Blackbird	94.48	4.92	.57	.03	.03	.01
Brewer's Blackbird	61.64	4.05	11.22	.17	1.31	.01
Brown-Headed Cowbird	3.63	.06	8.28	.70	1.63	.56
Bullock's Oriole	81.39	4.00	6.46	.32	6.46	.32
Purple Finch	35.45	.98	51.19	3.59	18.89	1.23
House Finch	86.06	4.30	7.33	.10	1.31	.01
Red Crossbill	41.80	1.27	29.99	2.29	.89	.15
Pine Siskin	33.41	.40	25.73	2.01	.89	.15
Lesser Goldfinch	79.91	4.08	5.65	.08	5.22	.08
American Goldfinch	75.31	3.98	12.16	.71	4.29	.07
Evening Grosbeak	73.13	1.98	8.73	1.41	.05	.00
House Sparrow	93.74	4.94	1.31	.01	1.31	.01
Mammals						
Virginia Opossum	2.20	.05	39.64	2.43	33.33	2.21
Vagrant Shrew	2.20	.05	32.73	2.23	5.77	.60
Pacific Shrew	91.55	4.27	2.25	.60	.00	0.00
Pacific Water Shrew	87.65	4.05	5.47	.80	1.04	.53
Trowbridge's Shrew	25.69	.42	54.82	4.29	25.43	2.01
Baird's Shrew	25.98	.26	65.57	4.62	33.63	2.37
Fog Shrew	25.18	.24	57.62	4.25	.12	.01
Shrew-Mole	5.88	.10	63.25	4.36	13.06	.80
Townsend's Mole	1.10	.07	36.90	.68	1.00	.04
Coast Mole	2.53	.06	36.00	.68	.94	.04
Little Brown Myotis	27.97	.32	30.13	2.17	.01	0.00
Yuma Myotis	27.97	.32	30.13	2.17	.01	0.00
Long-Eared Myotis	27.97	.32	37.14	2.51	.01	0.00
Fringed Myotis	27.97	.32	28.98	2.15	.01	0.00
Long-Legged Myotis	27.97	.32	28.98	2.15	.01	0.00
California Myotis	27.97	.32	29.05	2.16	.01	0.00
Silver-Haired Bat	34.02	.94	27.64	2.08	.01	0.00

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Big Brown Bat	27.97	.32	30.13	2.17	.01	0.00
Hoary Bat	74.59	3.89	.02	0.00	0.00	0.00
Townsend's Big-Eared Bat	94.38	4.94	0.00	0.00	0.00	0.00
Pallid Bat	95.05	4.95	0.00	0.00	0.00	0.00
Brazilian Free-Tailed Bat	95.05	4.95	0.00	0.00	0.00	0.00
Brush Rabbit	32.38	.75	14.15	.94	6.13	.61
Eastern Cottontail	90.60	4.22	1.75	.64	.85	.05
Snowshoe Hare	69.12	1.53	24.26	3.20	.07	.01
Black-Tailed Jackrabbit	64.71	4.07	27.09	.27	0.00	0.00
Mountain Beaver	31.79	.95	42.17	2.94	7.55	.83
Townsend's Chipmunk	26.42	.30	59.71	4.00	9.05	.50
California Ground Squirrel	28.38	2.13	37.18	1.23	1.00	.04
Western Gray Squirrel	26.57	.81	31.76	1.66	29.61	1.62
Douglas' Squirrel	38.67	1.12	45.05	3.32	.84	.14
Northern Flying Squirrel	34.03	.94	51.13	3.61	2.08	.27
Western Pocket Gopher	27.97	.93	8.85	.37	.05	.01
Camas Pocket Gopher	63.23	4.05	26.22	.30	.86	.04
American Beaver	91.25	4.78	3.80	.17	3.16	.13
Deer Mouse	.98	.04	69.67	3.52	11.82	.41
Dusky-Footed Woodrat	54.85	3.74	23.44	.94	9.59	.16
Bushy-Tailed Woodrat	28.18	.32	59.68	4.00	.83	.14
Western Red-Backed Vole	36.40	.98	21.83	1.73	10.80	1.04
White-Footed Vole	30.11	.87	51.46	3.64	7.10	.44
Red Tree Vole	42.38	1.29	10.88	1.04	.84	.14
California Vole	95.05	4.95	0.00	0.00	0.00	0.00
Townsend's Vole	47.60	3.75	9.87	.71	2.28	.58
Long-Tailed Vole	35.61	.97	8.39	.38	8.16	.36
Creeping Vole	28.66	.33	60.07	3.99	7.95	.36
Gray-Tailed Vole	56.49	3.95	23.54	.25	1.43	.06
Muskrat	93.85	4.90	1.20	.05	.04	.01
Black Rat	93.74	4.94	1.31	.01	1.31	.01
Norway Rat	93.74	4.94	1.31	.01	1.31	.01
House Mouse	92.88	4.92	1.31	.01	1.31	.01
Pacific Jumping Mouse	6.51	.13	40.57	3.05	1.34	.54
Common Porcupine	34.24	.94	59.71	4.00	23.22	1.39
Nutria	94.03	4.91	1.02	.04	.50	.03
Coyote	6.63	.65	45.08	1.06	6.26	.12
Red Fox	5.11	.11	35.76	.69	6.37	.13
Gray Fox	34.99	.58	37.12	2.14	.04	.00
Black Bear	35.33	.95	51.39	3.63	15.41	1.29
Raccoon	28.01	.32	63.03	4.06	32.95	2.06
Ermine	3.63	.06	75.38	4.49	7.81	.20
Long-Tailed Weasel	3.63	.06	75.07	4.49	7.67	.19
Mink	72.44	3.25	6.88	.79	3.79	.17
Western Spotted Skunk	3.63	.06	67.62	4.16	2.73	.16
Striped Skunk	3.63	.06	16.12	.81	5.22	.08
Northern River Otter	82.63	3.97	3.35	.15	3.35	.15
Mountain Lion	35.33	.95	59.66	4.00	2.61	.12

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Feral House Cat	27.11	2.12	1.31	.01	1.31	.01
Bobcat	29.02	.86	45.15	2.99	2.27	.09
Elk	32.97	.36	60.64	4.06	2.45	.09
Black-Tailed Deer	2.20	.05	50.04	3.38	19.25	.71

Appendix xx. Proportional suitability of Rickreall watershed (HUC # 1709000702) as potential breeding habitat for each terrestrial vertebrate species, early 1990's

Note: Columns may not add across to 100% because not all habitat suitability ratings are shown. Percentages were estimated using species models applied to satellite imagery, so are very approximate and do not account for vertical habitat structure and fine-scale features such as snags, buildings, and rock ledges (see section xx for further explanation). Estimates of land ownership (public vs. private) also are approximate and based on early 1990's information.

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Amphibians:						
Northwestern Salamander	90.19	6.54	2.24	.32	.12	.02
Long-Toed Salamander	66.21	5.72	2.25	.31	2.10	.31
Clouded Salamander	71.28	3.95	7.16	1.22	.42	.05
Ensatina	59.71	3.62	15.76	1.73	8.79	1.23
Dunn's Salamander	77.20	5.78	6.29	.43	6.28	.43
Western Red-backed Salamander	70.10	3.94	13.73	1.82	8.36	1.20
Roughskin Newt	88.42	6.38	3.74	.47	.14	.03
Pacific Giant Salamander	91.98	6.80	.61	.09	.61	.09
Southern Torrent Salamander	91.32	6.65	1.69	.22	.73	.10
Tailed Frog	87.83	6.15	4.31	.59	1.31	.18
Pacific Treefrog	16.49	.72	19.56	1.39	2.25	.31
Red-Legged Frog	89.98	6.51	3.13	.38	2.13	.31
Bullfrog	92.23	6.82	.14	.03	.14	.03
Reptiles:						
Painted Turtle	73.65	5.63	.27	.00	.22	.00
Western Pond Turtle	71.79	5.63	.29	.00	.24	.00
Northern Alligator Lizard	61.67	3.78	10.18	1.26	3.01	.25
Southern Alligator Lizard	28.69	3.19	15.26	.48	7.23	.20
Western Fence Lizard	21.04	2.28	20.61	.72	8.26	.21
Western Skink	23.21	2.31	11.57	.32	8.23	.21
Rubber Boa	14.87	.48	25.54	1.92	10.28	.37
Racer	28.93	3.19	11.49	.26	8.32	.20
Sharptail Snake	28.14	3.07	9.58	.21	8.15	.20
Ringneck Snake	22.10	2.17	11.57	.32	8.23	.21
Gopher Snake	31.29	3.20	12.06	.26	8.32	.20
Northwestern Garter Snake	7.79	.22	30.38	2.26	11.88	.48
Common Garter Snake	6.63	.10	22.40	1.34	4.01	.47
Birds:						
Pied-Billed Grebe	91.97	6.72	.14	.03	.13	.03
American Bittern	91.97	6.72	1.10	.17	.13	.03
Great Blue Heron	86.54	6.34	3.87	.25	.17	.02
Green Heron	87.59	6.45	3.13	.16	0.00	0.00
Canada Goose	89.43	6.52	1.14	.17	.26	.04
Wood Duck	87.41	6.44	3.13	.16	0.00	0.00
Mallard	73.66	5.23	3.02	.29	.14	.03
Cinnamon Teal	91.97	6.72	1.10	.17	.13	.03

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Hooded Merganser	86.86	6.37	3.86	.25	.17	.02
Common Merganser	89.03	6.59	4.08	.30	1.55	.15
Turkey Vulture	67.75	3.83	11.50	.84	2.93	.23
Osprey	91.76	6.78	.08	0.00	.04	0.00
White-tailed Kite	92.59	6.48	.01	.01	.01	.00
Northern Harrier	55.39	3.67	2.76	.32	.95	.14
Sharp-Shinned Hawk	53.48	3.57	16.41	1.51	.49	.05
Cooper's Hawk	57.98	3.63	13.80	1.49	.26	.04
Red-shouldered Hawk	93.11	6.89	0.00	0.00	0.00	0.00
Red-tailed Hawk	59.71	3.62	8.32	.57	.15	.02
American Kestrel	82.42	6.49	6.33	.21	.04	.01
Ring-Necked Pheasant	37.39	3.40	45.85	3.13	7.19	.20
Blue Grouse	70.04	3.93	7.50	.86	1.29	.09
Ruffed Grouse	61.16	3.64	13.76	1.50	6.40	.97
Wild Turkey	46.86	4.22	13.17	1.08	3.83	.29
California Quail	63.43	5.76	8.10	.36	5.51	.19
Mountain Quail	64.44	3.80	3.81	.31	.05	.01
Virginia Rail	82.28	6.23	2.38	.35	.92	.16
Sora	87.47	6.34	1.01	.16	.96	.16
American Coot	92.97	6.86	.14	.03	.14	.03
Killdeer	46.75	3.66	4.20	.29	1.60	.01
Spotted Sandpiper	90.48	6.71	2.63	.18	1.05	.12
Marbled Murrelet	93.00	6.85	.11	.04	.01	.00
Rock Dove	87.45	6.86	3.12	.02	3.12	.02
Band-Tailed Pigeon	67.31	3.82	13.50	1.81	.27	.02
Mourning Dove	61.52	4.95	10.54	.44	8.04	.20
Barn Owl	76.51	6.43	2.63	.02	2.63	.02
Western Screech-Owl	54.00	3.79	22.14	1.70	3.11	.14
Great Horned Owl	59.71	3.62	8.32	.57	.15	.02
Northern Pygmy-Owl	74.72	4.33	7.07	.85	.49	.05
Spotted Owl	77.96	4.56	2.23	.26	.49	.05
Barred Owl	70.66	4.06	2.28	.26	.49	.05
Long-Eared Owl	72.80	4.97	10.64	1.19	.20	.03
Northern Saw-Whet Owl	66.98	3.82	8.70	1.35	1.78	.21
Common Nighthawk	87.89	6.64	4.41	.24	1.50	.01
Vaux's Swift	78.40	5.62	6.15	.08	6.15	.08
Anna's Hummingbird	87.45	6.86	5.65	.03	2.63	.02
Rufous Hummingbird	51.62	3.27	15.26	1.38	.05	.01
Belted Kingfisher	88.04	6.46	1.60	.16	1.60	.16
Acorn Woodpecker	78.89	6.54	6.71	.31	.16	.00
Red-Breasted Sapsucker	62.77	3.79	16.03	1.74	6.41	.95
Downy Woodpecker	62.60	4.98	7.02	.51	.26	.04
Hairy Woodpecker	67.75	3.83	9.82	1.29	.49	.05
Northern Flicker	47.94	3.22	21.55	1.99	.15	.02
Pileated Woodpecker	64.96	3.81	16.58	1.75	.49	.05
Olive-Sided Flycatcher	74.72	4.33	3.47	.33	.29	.02
Western Wood-Pewee	64.35	4.77	7.90	.56	.21	.03

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Willow Flycatcher	82.64	6.29	10.47	.60	1.38	.18
Hammond's Flycatcher	85.23	4.70	1.34	.30	.48	.18
Pacific-Slope Flycatcher	65.17	3.81	9.82	1.29	6.90	1.00
Western Kingbird	58.83	4.20	.31	.01	.17	.00
Horned Lark	51.03	3.71	1.70	.01	.92	.01
Purple Martin	89.18	6.54	0.00	0.00	0.00	0.00
Tree Swallow	81.60	6.35	1.38	.04	.04	.01
Violet-Green Swallow	76.71	6.38	6.96	.07	2.71	.03
Northern Rough-Winged Swallow	89.51	6.63	1.01	.12	.87	.09
Cliff Swallow	89.06	6.77	4.05	.12	2.63	.02
Barn Swallow	86.53	6.76	6.58	.13	2.63	.02
Gray Jay	91.02	5.73	.61	.52	.01	.02
Steller's Jay	69.07	4.30	15.34	1.65	.66	.05
Western Scrub-Jay	17.48	1.84	23.88	.80	12.92	.22
American Crow	77.93	6.52	7.48	.12	2.67	.03
Common Raven	74.55	4.19	4.30	.40	.61	.05
Black-Capped Chickadee	61.34	4.96	16.59	.92	1.68	.23
Chestnut-Backed Chickadee	69.60	4.30	10.09	1.30	.49	.05
Bushtit	58.22	4.73	12.41	.46	8.25	.24
Red-Breasted Nuthatch	69.56	4.30	13.50	1.81	.49	.05
White-Breasted Nuthatch	68.95	5.20	6.97	.50	.21	.03
Brown Creeper	64.56	4.32	16.03	1.74	.49	.05
Bewick's Wren	60.68	4.78	14.46	.52	9.47	.39
House Wren	55.94	4.47	14.81	.38	2.84	.06
Winter Wren	67.79	3.83	13.41	1.79	.91	.11
Marsh Wren	90.54	6.54	1.14	.17	1.01	.14
American Dipper	92.83	6.82	.26	.07	.26	.07
Golden-Crowned Kinglet	72.14	4.31	10.09	1.30	.49	.05
Western Bluebird	38.17	3.25	3.02	.25	0.00	0.00
Townsend's Solitaire	90.64	6.63	2.47	.26	.04	.01
Swainson's Thrush	58.28	3.44	18.45	2.42	6.73	.99
Hermit Thrush	83.13	4.48	3.05	.45	.27	.02
American Robin	4.05	.20	35.36	2.23	13.67	.56
Varied Thrush	91.00	5.73	.15	.12	.01	.02
Wrentit	85.47	6.43	7.19	.43	4.62	.21
Cedar Waxwing	58.22	4.73	16.58	.90	2.89	.13
European Starling	27.34	3.15	13.94	.26	6.33	.04
Cassin's Vireo	58.28	3.44	6.72	1.00	.11	.02
Hutton's Vireo	66.37	3.65	13.54	1.45	6.41	.95
Warbling Vireo	64.40	4.78	12.61	1.02	1.55	.20
Red-Eyed Vireo	91.96	6.79	.98	.09	.95	.09
Orange-Crowned Warbler	56.01	3.42	11.20	.47	8.63	.26
Nashville Warbler	93.11	6.89	0.00	0.00	0.00	0.00
Yellow Warbler	85.21	6.36	1.43	.19	1.27	.18
Yellow-Rumped Warbler	90.52	6.61	.80	.07	.05	.01
Black-Throated Gray Warbler	67.79	3.83	13.49	1.47	.11	.02
Hermit Warbler	74.77	4.34	9.92	1.31	.49	.05

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Macgillivray's Warbler	68.22	4.36	2.91	.23	2.86	.22
Common Yellowthroat	41.63	3.08	23.65	1.66	.57	.10
Wilson's Warbler	69.27	3.88	4.72	.37	.21	.02
Yellow-Breasted Chat	81.38	6.44	9.47	.39	8.52	.38
Western Tanager	67.75	3.83	15.48	2.33	6.41	.95
Black-Headed Grosbeak	55.75	3.43	13.69	1.49	7.80	.54
Lazuli Bunting	82.12	6.39	7.05	.27	5.51	.19
Spotted Towhee	54.93	4.33	15.84	.68	8.15	.22
Chipping Sparrow	65.25	4.95	9.11	.25	.05	.01
Vesper Sparrow	83.64	6.68	1.35	.01	.48	.00
Savannah Sparrow	38.82	3.33	38.00	3.05	1.32	.14
Grasshopper Sparrow	71.63	5.58	.40	0.00	.30	0.00
Song Sparrow	11.03	.33	16.07	.70	7.72	.37
White-Crowned Sparrow	70.75	6.14	10.25	.41	.05	.01
Dark-Eyed Junco	57.44	3.73	13.37	1.30	3.07	.24
Red-Winged Blackbird	44.82	3.42	39.77	3.28	2.70	.32
Western Meadowlark	46.26	3.63	.62	.00	.48	.00
Brewer's Blackbird	31.33	3.28	23.43	.74	5.17	.03
Brown-Headed Cowbird	10.95	.31	11.83	.55	3.15	.33
Bullock's Oriole	74.00	5.97	6.97	.50	6.97	.50
Purple Finch	68.10	4.03	21.90	2.60	6.69	.95
House Finch	74.39	6.44	15.08	.25	5.17	.03
Red Crossbill	74.72	4.33	10.24	1.33	.76	.06
Pine Siskin	63.70	3.62	9.10	1.25	.54	.05
Lesser Goldfinch	68.81	6.15	8.90	.21	8.04	.20
American Goldfinch	64.63	5.75	17.13	.94	6.18	.19
Evening Grosbeak	83.02	4.46	3.54	.78	.27	.02
House Sparrow	87.45	6.86	5.65	.03	5.65	.03
Mammals:						
Virginia Opossum	5.55	.21	39.77	2.26	29.44	2.05
Vagrant Shrew	5.55	.21	24.45	2.01	8.52	.38
Pacific Shrew	82.69	6.42	5.68	.34	.00	0.00
Pacific Water Shrew	87.65	6.38	3.88	.40	1.54	.20
Trowbridge's Shrew	46.12	3.16	24.19	3.00	8.89	1.24
Baird's Shrew	51.55	3.26	34.23	3.57	11.80	1.47
Fog Shrew	49.79	3.24	31.19	3.22	.30	.02
Shrew-Mole	18.90	.36	34.50	3.16	9.34	.77
Townsend's Mole	4.40	.41	51.33	3.42	.62	.00
Coast Mole	8.95	.25	48.31	3.39	.48	.00
Little Brown Myotis	52.63	3.41	15.18	1.47	.01	0.00
Yuma Myotis	52.63	3.41	15.18	1.47	.01	0.00
Long-Eared Myotis	52.63	3.41	15.43	1.67	.01	0.00
Fringed Myotis	52.63	3.41	12.57	1.45	.01	0.00
Long-Legged Myotis	52.63	3.41	12.57	1.45	.01	0.00
California Myotis	52.63	3.41	12.58	1.45	.01	0.00
Silver-Haired Bat	62.09	3.79	11.91	1.39	.00	0.00
Big Brown Bat	52.63	3.41	15.18	1.47	.01	0.00

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Hoary Bat	81.28	6.15	.01	0.00	0.00	0.00
Townsend's Big-Eared Bat	93.11	6.89	0.00	0.00	0.00	0.00
Pallid Bat	93.11	6.89	0.00	0.00	0.00	0.00
Brazilian Free-Tailed Bat	93.11	6.89	0.00	0.00	0.00	0.00
Brush Rabbit	47.54	3.11	18.89	.92	9.39	.40
Eastern Cottontail	77.95	6.07	5.22	.30	3.00	.11
Snowshoe Hare	83.35	4.39	9.27	2.28	.27	.02
Black-Tailed Jackrabbit	41.54	3.40	45.80	3.13	0.00	0.00
Mountain Beaver	64.71	3.78	14.98	1.88	2.74	.30
Townsend's Chipmunk	49.96	3.38	25.36	3.06	3.62	.28
California Ground Squirrel	14.51	1.57	51.15	3.72	.62	.00
Western Gray Squirrel	49.88	3.54	24.66	1.72	19.63	1.66
Douglas' Squirrel	63.60	3.96	15.48	2.33	.49	.05
Northern Flying Squirrel	62.58	3.79	21.91	2.77	.91	.11
Western Pocket Gopher	59.65	3.77	3.84	.24	.05	.01
Camas Pocket Gopher	36.09	3.27	43.08	3.16	.44	.00
American Beaver	88.63	6.50	4.48	.39	2.59	.14
Deer Mouse	4.05	.20	69.05	5.43	15.13	.71
Dusky-Footed Woodrat	63.50	5.96	21.72	.69	13.29	.47
Bushy-Tailed Woodrat	55.65	3.42	25.34	3.06	.48	.05
Western Red-Backed Vole	69.95	3.90	6.67	.82	3.29	.34
White-Footed Vole	59.71	3.62	22.19	2.82	7.26	.51
Red Tree Vole	75.21	4.36	3.36	.34	.49	.05
California Vole	93.11	6.89	0.00	0.00	0.00	0.00
Townsend's Vole	31.75	3.08	13.59	.61	2.76	.32
Long-Tailed Vole	69.07	3.84	3.28	.26	2.86	.22
Creeping Vole	57.27	3.39	25.98	3.06	3.02	.23
Gray-Tailed Vole	26.24	3.00	41.19	3.09	1.43	.14
Muskrat	89.88	6.57	3.23	.33	.20	.06
Black Rat	87.45	6.86	5.65	.03	5.65	.03
Norway Rat	87.45	6.86	5.65	.03	5.65	.03
House Mouse	85.11	6.84	5.65	.03	5.65	.03
Pacific Jumping Mouse	19.55	.38	27.07	2.28	2.28	.32
Common Porcupine	65.12	3.80	25.36	3.06	8.13	1.23
Nutria	91.37	6.69	1.74	.20	1.00	.16
Coyote	16.49	.66	59.00	3.93	8.70	.21
Red Fox	14.74	.47	52.94	3.67	8.81	.22
Gray Fox	60.82	3.69	23.70	2.28	.04	.01
Black Bear	67.75	3.83	22.17	2.81	7.15	.66
Raccoon	52.71	3.41	33.49	3.17	19.10	1.74
Ermine	10.95	.31	52.07	4.32	9.17	.22
Long-Tailed Weasel	10.95	.31	51.37	4.32	9.04	.22
Mink	73.81	5.42	8.49	.71	4.38	.39
Western Spotted Skunk	10.46	.31	37.49	3.31	.97	.08
Striped Skunk	10.46	.31	23.59	.97	8.04	.20
Northern River Otter	75.32	5.74	4.29	.30	4.29	.30
Mountain Lion	67.75	3.83	25.33	3.06	1.23	.08

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Feral House Cat	12.75	1.55	5.65	.03	5.65	.03
Bobcat	57.08	3.60	20.24	2.06	2.49	.13
Elk	64.70	3.51	26.20	3.11	2.38	.12
Black-Tailed Deer	5.55	.21	34.46	2.47	15.14	.66