Appendix F Wildlife-Salmonid Relationships

Table F1. Wildlife species in the Yakima subbasin, Washington that eat salmonids (IBIS 2003).

		Relationship	
Common Name	Scientific Name	Туре	Salmonid Stage
Amphibians			
Cope's Giant	Dicamptodon		Freshwater rearing - fry, fingerling,
Salamander	copei	Recurrent	and parr
		Recurrent	Incubation - eggs and alevin
Pacific Giant	Dicamptodon		Freshwater rearing - fry, fingerling,
Salamander	tenebrosus	Recurrent	and parr
		Recurrent	Incubation - eggs and alevin
Birds			
Common Loon	Gavia immer	Rare	Carcasses
			Saltwater - smolts, immature adults,
		Recurrent	and adults
			Freshwater rearing - fry, fingerling,
		Recurrent	and parr
	Podilymbus		Freshwater rearing - fry, fingerling,
Pied-billed Grebe	podiceps	Recurrent	and parr
	Aechmophorus		
Western Grebe	occidentalis	Rare	Carcasses
			Freshwater rearing - fry, fingerling,
		Recurrent	and parr
			Saltwater - smolts, immature adults,
		Recurrent	and adults
	Aechmophorus	D	Saltwater - smolts, immature adults,
Clark's Grebe	clarkii	Recurrent	and adults
American White	Pelecanus	Decument	Freshwater rearing - fry, fingerling,
Pelican	erythrorhynchos	Recurrent	and parr
Double-crested	Phalacrocorax	Popurront	Saltwater - smolts, immature adults, and adults
Cormorant	auritus	Recurrent	
		Recurrent	Freshwater rearing - fry, fingerling,
		Recuirent	and parr Freshwater rearing - fry, fingerling,
Great Blue Heron	Ardea herodias	Recurrent	and parr
Ordat Dide Heldii	, ii dod rierodias	1 COUITEIN	Saltwater - smolts, immature adults,
		Recurrent	and adults
		1 COUITOII	Saltwater - smolts, immature adults,
Great Egret	Ardea alba	Rare	and adults
		1	

		Relationship	
Common Name	Scientific Name	Туре	Salmonid Stage
			Freshwater rearing - fry, fingerling,
		Rare	and parr
	Butorides		Freshwater rearing - fry, fingerling,
Green Heron	virescens	Rare	and parr
			Saltwater - smolts, immature adults,
		Recurrent	and adults
Black-crowned	Nycticorax		Freshwater rearing - fry, fingerling,
Night-heron	nycticorax	Recurrent	and parr
			Saltwater - smolts, immature adults,
		Recurrent	and adults
Turkey Vulture	Cathartes aura	Recurrent	Carcasses
	Anas		
Mallard	platyrhynchos	Rare	Incubation - eggs and alevin
		Rare	Carcasses
Green-winged Teal	Anas crecca	Rare	Incubation - eggs and alevin
Canvasback	Aythya valisineria	Rare	Carcasses
Greater Scaup	Aythya marila	Rare	Incubation - eggs and alevin
		Rare	Carcasses
	Histrionicus		
Harlequin Duck	histrionicus	Indirect	Carcasses
		Strong,	Saltwater - smolts, immature adults,
		consistent	and adults
		Strong,	
		consistent	Incubation - eggs and alevin
Barrow's	Bucephala		
Goldeneye	islandica	Recurrent	Incubation - eggs and alevin
		Recurrent	Carcasses
			Freshwater rearing - fry, fingerling,
		Recurrent	and parr
			Saltwater - smolts, immature adults,
		Rare	and adults
	Lophodytes		Freshwater rearing - fry, fingerling,
Hooded Merganser	cucullatus	Rare	and parr
		Rare	Carcasses
		Rare	Incubation - eggs and alevin
Common	Mergus	Strong,	Saltwater - smolts, immature adults,
Merganser	merganser	consistent	and adults
		Strong,	
		consistent	Incubation - eggs and alevin
		Recurrent	Carcasses
		Strong,	Freshwater rearing - fry, fingerling,
		consistent	and parr

		Relationship	
Common Name	Scientific Name	Туре	Salmonid Stage
		Strong,	Saltwater - smolts, immature adults,
Osprey	Pandion haliaetus	consistent	and adults
		Strong,	
		consistent	Spawning - freshwater
		Strong,	Freshwater rearing - fry, fingerling,
	Halianatus	consistent	and parr
Pold Fools	Haliaeetus	Indiroct	Caragaga
Bald Eagle	leucocephalus	Indirect	Carcasses Freshwater rearing - fry, fingerling,
		Indirect	and parr
		Strong,	ана ран
		consistent	Spawning - freshwater
		COTICIOTOTIC	Saltwater - smolts, immature adults,
		Indirect	and adults
		Strong,	and dudie
		consistent	Carcasses
		Strong,	Saltwater - smolts, immature adults,
		consistent	and adults
		Indirect	Incubation - eggs and alevin
Red-tailed Hawk	Buteo jamaicensis	Rare	Carcasses
Golden Eagle	Aquila chrysaetos	Recurrent	Spawning - freshwater
_		Recurrent	Carcasses
			Saltwater - smolts, immature adults,
Gyrfalcon	Falco rusticolus	Indirect	and adults
		Indirect	Carcasses
			Freshwater rearing - fry, fingerling,
		Indirect	and parr
	Charadrius		
Killdeer	vociferus	Indirect	Carcasses
0	Tringa	D	In substitute a super and also in
Greater Yellowlegs	melanoleuca	Rare	Incubation - eggs and alevin
Spotted Sandpiper	Actitis macularia	Indirect	Carcasses
Bonaparte's Gull	Larus philadelphia	Recurrent	Carcasses
		Recurrent	Incubation - organ and alovin
		Necurrent	Incubation - eggs and alevin Saltwater - smolts, immature adults,
		Recurrent	and adults
		- COUNTOIN	Saltwater - smolts, immature adults,
Heermann's Gull	Larus heermanni	Recurrent	and adults
	Larus		
Ring-billed Gull	delawarensis	Recurrent	Carcasses
J			Freshwater rearing - fry, fingerling,
		Recurrent	and parr

Common Name	Scientific Name	Relationship Type	Salmonid Stage
			Saltwater - smolts, immature adults,
			and adults
California Gull	Larus californicus	†	Carcasses
			Saltwater - smolts, immature adults,
		ļ	and adults
Harring Cull	Lowes organization		Saltwater - smolts, immature adults, and adults
Herring Gull	Larus argentatus		
		Recurrent	Carcasses
			Freshwater rearing - fry, fingerling, and parr
		Recuirent	Saltwater - smolts, immature adults,
Thayer's Gull	Larus thayeri	Recurrent	and adults
Glaucous-winged	Larus		Saltwater - smolts, immature adults,
Gull	glaucescens		and adults
	gradio		Incubation - eggs and alevin
		Recurrent	Carcasses
		†	Spawning - freshwater
	Larus		<u>- p</u>
Glaucous Gull	hyperboreus	Recurrent	Carcasses
			Saltwater - smolts, immature adults,
		Recurrent	and adults
		Strong,	Saltwater - smolts, immature adults,
Caspian Tern	Sterna caspia	consistent	and adults
		•	Freshwater rearing - fry, fingerling,
			and parr
			Freshwater rearing - fry, fingerling,
Forster's Tern	Sterna forsteri		and parr
			Saltwater - smolts, immature adults,
	Dro obywo manby o		and adults
Marbled Murrelet	Brachyramphus marmoratus		Saltwater - smolts, immature adults, and adults
INIAIDIEU MUITEIEL	mamioratus		Freshwater rearing - fry, fingerling,
			and parr
			Saltwater - smolts, immature adults,
Belted Kingfisher	Ceryle alcyon		and adults
			Freshwater rearing - fry, fingerling,
		Recurrent	and parr
		Recurrent	Spawning - freshwater
Willow Flycatcher	Empidonax traillii	Indirect	Carcasses
Í	Perisoreus		
Gray Jay	canadensis	Rare	Carcasses
Steller's Jay	Cyanocitta stelleri	Recurrent	Carcasses

O No.	Onionalitie Nessee	Relationship	
Common Name	Scientific Name	Туре	Salmonid Stage
Disak billad Magnia	Diag nice	Decument	Freshwater rearing - fry, fingerling,
Black-billed Magpie	Ріса ріса	Recurrent	and parr
	0	Recurrent	Carcasses
A	Corvus	D	0
American Crow	brachyrhynchos	Recurrent	Carcasses
		Recurrent	Freshwater rearing - fry, fingerling, and parr
		researement	and pan
Common Raven	Corvus corax	Recurrent	Spawning - freshwater
			Freshwater rearing - fry, fingerling,
		Recurrent	and parr
		Recurrent	Carcasses
	Tachycineta		
Tree Swallow	bicolor	Indirect	Carcasses
Violet-green	Tachycineta		
Swallow	thalassina	Indirect	Carcasses
Northern Rough-	Stelgidopteryx		
winged Swallow	serripennis	Indirect	Carcasses
Bank Swallow	Riparia riparia	Indirect	Carcasses
	Petrochelidon		
Cliff Swallow	pyrrhonota	Indirect	Carcasses
Barn Swallow	Hirundo rustica	Indirect	Carcasses
	Troglodytes		
Winter Wren	troglodytes	Rare	Carcasses
	Cinclus		
American Dipper	mexicanus	Indirect	Carcasses
		Recurrent	Incubation - eggs and alevin
			Freshwater rearing - fry, fingerling,
		Recurrent	and parr
		Recurrent	Carcasses
	Turdus		
American Robin	migratorius	Rare	Incubation - eggs and alevin
Varied Thrush	Ixoreus naevius	Rare	Incubation - eggs and alevin
		Rare	Carcasses
Spotted Towhee	Pipilo maculatus	Rare	Carcasses
	Melospiza	1.5	
Song Sparrow	melodia	Rare	Carcasses
Mammals	1 27 5 5775		
	Didelphis		
Virginia Opossum	virginiana	Recurrent	Carcasses
Masked Shrew	Sorex cinereus	Indirect	Carcasses
	20.00.00.00	Rare	Carcasses
		ivaic	Out 003303

Common Name	Scientific Name	Relationship Type	Salmonid Stage
Vagrant Shrew	Sorex vagrans	Indirect	Carcasses
		Rare	Carcasses
Montane Shrew	Sorex monticolus	Indirect	Carcasses
		Rare	Carcasses
Water Shrew	Sorex palustris	Recurrent	Carcasses
		Indirect	Carcasses
		Recurrent	Incubation - eggs and alevin
			Freshwater rearing - fry, fingerling,
		Recurrent	and parr
Pacific Water			
Shrew	Sorex bendirii	Rare	Carcasses
		Indirect	Carcasses
Trowbridge's Shrew	Sorex trowbridgii	Indirect	Carcasses
		Rare	Carcasses
	Tamiasciurus		
Douglas' Squirrel	douglasii	Rare	Carcasses
Northern Flying	Glaucomys		
Squirrel	sabrinus	Rare	Carcasses
	Peromyscus		
Deer Mouse	maniculatus	Rare	Carcasses
	Castor		
American Beaver	canadensis		Various Stages
		Strong, consistent	
Coyote	Canis latrans	Recurrent	Carcasses
Gray Wolf	Canis lupus	Recurrent	Carcasses
,		Recurrent	Spawning - freshwater
Red Fox	Vulpes vulpes	Rare	Carcasses
	Urocyon		
Gray Fox		Rare	Carcasses
•		Strong,	
Black Bear	Ursus americanus	consistent	Spawning - freshwater
		Strong,	
		consistent	Carcasses
		Strong,	
Grizzly Bear	Ursus arctos	consistent	Spawning - freshwater
		Strong,	
		consistent	Carcasses
			Freshwater rearing - fry, fingerling,
Raccoon	Procyon lotor		and parr
		Recurrent	Carcasses
American Marten	Martes americana	Rare	Carcasses

		Relationship	
Common Name	Scientific Name	Туре	Salmonid Stage
Fisher	Martes pennanti	Rare	Carcasses
Long-tailed Weasel	Mustela frenata	Rare	Carcasses
			Freshwater rearing - fry, fingerling,
Mink	Mustela vison	Recurrent	and parr
		Recurrent	Carcasses
		Recurrent	Spawning - freshwater
Wolverine	Gulo gulo	Rare	Carcasses
Striped Skunk	Mephitis mephitis	Rare	Carcasses
Northern River		Strong,	
Otter	Lutra canadensis	consistent	Spawning - freshwater
		Strong,	
		consistent	Carcasses
		Strong,	Freshwater rearing - fry, fingerling,
		consistent	and parr
Mountain Lion	Puma concolor	Rare	Spawning - freshwater
Bobcat	Lynx rufus	Recurrent	Spawning - freshwater
		Recurrent	Carcasses
Reptiles			
Western Pond	Clemmys		
Turtle	marmorata	Rare	Carcasses
			Freshwater rearing - fry, fingerling,
		Rare	and parr
Common Garter	Thamnophis		Freshwater rearing - fry, fingerling,
Snake	sirtalis	Rare	and parr