Table 1.--Sample sites used to collect piscivorous fishes in the lower 1.7 km of Cedar River and southern Lake Washington. Distances were measured in relation to a 1995 TFW stream ambient monitoring survey (U.S. Army Corps of Engineers, unpublished data). River distances were measured from the northern boundary of the Cedar River Trails Park, which is approximately 30 m upstream of the river mouth (Figure 2). Minus numbers in parentheses indicate river distances downstream of the park boundary. Lake distances were measured along the shoreline from the mouth of the Cedar River.

GEAR TYPE Site #	Location	Distance (m)
RIVER BEACH SEINING		
1	Right bank	265 - 375
2	Right bank	432 - 565
3	Right bank	600 - 700
RIVER BOAT ELECTROSHOCKING		
1	Lower Boeing Bridge (downstream)	(-35)
2	Lower Boeing Bridge (upstream)	(-10)- 0
3	Right bank	0 - 265
4	Right bank	400 - 565
5	Left bank	0 - 470
RIVER BACKPACK ELECTROSHOCKING		
6	Right bank side channel	265 - 375
7	Left bank	524 - 600
8	Right bank side channel	600 - 700
9	Left bank side channel	1114 -1244
10	Right bank	1260 -1500
11	Right bank	1500 -1654
12	Left bank	1632 -1679
LAKE BEACH SEINING		
1	West shore	1631 -1651
2	West shore	1227 -1247
3	West shore	726 - 746
4	West shore	325 - 345
5	South shore	493 - 513
6	South shore island	958 - 958
7	East shore	1634 -1654
8	East shore	2743 -2763
LAKE ELECTROSHOCKING		
1	West shore	1187 -1651
2	West shore	746 -1187
3	West shore	485 - 746
4	West shore	184 - 485
5	South shore	0 - 184
6	Delta	0 - 302
7	South shore	50 - 523
8	South shore	523 - 958
9	South shore island	958 - 988
10	East shore	1308 -1445
11	East shore	1475 -1875
12	East shore	1875 -2219
13	East shore	2219 -2406
14	East shore	2406 -2574
15	East shore	2574 -2763

Table 2.--Salmonid fry and other prey fish consumed by predatory fish from beach seining sites on the lower Cedar River, February-June, 1995. Fry per stomach includes both sockeye salmon fry and unidentified salmonid fry. Sock. Fry = sockeye salmon fry, Uni. Sal. Fry = unidentified salmonid fry which are similar in size as sockeye salmon fry, FO = frequency of occurrence (%), Max.= maximum number of salmonid fry observed in a stomach, Sock. Pres. = sockeye salmon presmolts, Oth. Sal.= other salmonids, Lar. Fish = larval fish, Oth. Fish = other fish.

PREDATORS			SALMONID FRY CONSUMED					OTHER FISH			
DATE Species	N	Mean FL (mm)	Sock. Fry	Uni. Sal. Fry	Fry per stom.	FO	Max.	Sock. Pres.	Oth. Sal.	Lar. Fish	Oth. Fish
FEBRUARY 13											
Atlantic salmon	1	680	0	0	0	0	0	0	0	0	0
MARCH 7											
Cutthroat trout	1	553	0	0	0	0	0	0	0	0	0
MARCH 30											
Steelhead	4	258	29	8	9.25	50	27	0	0	0	0
Prickly sculpin	6	107	33	9	7.0	100	11	0	0	0	0
APRIL 20											
Cutthroat trout	3	337	0	2	0.67	33	2	0	0	3	1
Rainbow trout	3	342	0	0	0	0	0	0	0	5	1
Prickly sculpin	9	107	12	7	2.11	100	4	0	0	0	0
MAY 11											
Cutthroat trout	9	278	0	4	0.44	22	2	0	0	3	1
Rainbow trout	8	262	3	2	0.63	11	5	0	0	1	0
Hatchery trout	6	132	0	0	0	0	0	0	0	0	0
Steelhead	1	212	0	0	0	0	0	0	0	0	0
Coho salmon	13	114	3	0	0.23	15	2	0	0	3	0
Mountain whitefish	9	329	0	0	0	0	0	0	0	0	0
Prickly sculpin	12	109	0	3	0.25	25	1	0	0	0	1
JUNE 1											
Cutthroat trout	32	198	48	10	1.81	38	12	0	0	83	6
Rainbow trout	4	268	0	0	0	0	0	0	1	0	1
Hatchery trout	7	152	0	0	0	0	0	0	0	0	0
Coho salmon	4	112	0	0	0	0	0	0	0	48	0
Mountain whitefish	8	286	0	0	0	0	0	0	0	17	0
Prickly sculpin	12	133	1	0	0.08	8	1	0	1	2	2
TOTALS											
Atlantic salmon	1	680	0	0	0	0	0	0	0	0	0
Cutthroat trout	45	231	48	16	1.42	33	12	0	0	89	8
Rainbow trout	15	281	3	2	0.33	7	5	0	1	5	2
Hatchery trout	13	143	0	0	0	0	0	0	0	0	0
Steelhead	5	248	29	8	7.40	40	27	0	0	0	0
Coho salmon	17	114	3	0	0.18	12	2	0	0	51	0
Mountain whitefish	17	309	0	0	0	0	0	0	0	18	0
Prickly sculpin	39	115	46	19	1.67	49	11	0	1	2	3

Table 3.--Petersen mark-recapture population estimates in the lower Cedar River and southern Lake Washington, May 1-3, 1995. M = number of fish marked; C = catch or sample taken for census; R = number of recaptured marks in the sample; N = size of population; V(N) = sample variance; CI = confidence interval. Fish from the river sites and part of the lake east shore were marked and recaptured the same night. Fish from other sites were marked the first day and recaptured the following day.

LOCATION Species	M	C	R	N	V(N)	lower CI	upper CI
CEDAR RIVER							
Upper Reach							
Cutthroat trout	1	1	1	2.0	0	1.0	3.6
Rainbow trout	1	2	1	3.0	1.0	2.0	5.5
Coho salmon	1	3	1	4.0	2.7	3.0	7.3
Lower Reach							
Cutthroat trout	13	7	2	37.3	217.8	18.0	93.3
Rainbow trout	9	7	1	40.0	400.0	15.0	72.7
Coho salmon	36	110	11	342.3	8036.7	198.4	641.7
Smallmouth bass	3	0	0	4.0	0	3.0	4.0
LAKE WASHINGTON							
Marked day 1, recaptured day 2 (South and part of east shore, 2575 m)							
Cutthroat trout	23	16	2	136.0	3808.0	49.8	340.0
Rainbow trout	7	2	0	24.0	192.0	9.0	24.0
Hatchery rainbow trout	4	2	0	15.0	75.0	6.0	15.0
Coho salmon	16	14	0	255.0	30345.0	54.3	255.0
Smallmouth bass	15	9	1	80.0	1706.7	24.2	145.5
Pumpkinseed	2	2	0	9.0	27.0	4.0	9.0
Yellow perch	7	27	0	224.0	24192.0	47.7	224.0
Marked and recaptured same day (part of east shore, 537 m)							
Cutthroat trout	10	19	5	36.7	134.4	24.0	84.6
Rainbow trout	5	2	0	18.0	108.0	7.0	18.0
Hatchery rainbow trout	5	5	2	12.0	18.0	8.0	12.0
Coho salmon	6	10	2	25.7	119.8	14.0	65.2
Smallmouth bass	6	9	2	23.3	95.3	13.0	58.3
Largemouth bass	2	0	0	3.0	0	2.0	3.0
Yellow perch	3	11	0	48.0	1056.0	14.0	48.0
Combined							
Cutthroat trout	33	35	8	136.0	1387.2	72.9	278.2
Rainbow trout	12	4	0	65.0	1690.0	16.0	65.0
Hatchery rainbow trout	9	7	2	26.7	111.1	14.0	66.7
Coho salmon	22	24	2	191.7	8081.9	70.1	479.2
Smallmouth bass	21	18	3	104.5	1724.3	42.7	261.3
Largemouth bass	2	0	0	3.0	0	2.0	3.0
Pumpkinseed	2	2	0	9.0	27.0	4.0	9.0
Yellow perch	10	38	0	429.0	89661.0	91.3	429.0

Table 4.--Number of marked and recaptured thread-tagged predaceous fishes in the lower Cedar River and southern Lake Washington, 1995. The mean number of days was calculated from the date of release to the last recapture date of each fish.

LOCATION Species	Number Marked	Number Recaptured	Mean number of days	Number moved more than 200 m
CEDAR RIVER				
Upper Reach				
Cutthroat trout	1	1	27.0	0
Rainbow trout	4	3	53.3	0
Lower Reach				
Atlantic salmon	1	0	-	-
Cutthroat trout	95	11	16.3	2
Rainbow trout	43	6	20.7	1
Steelhead	1	0	-	-
Sockeye salmon	1	0	-	-
Smallmouth bass	4	0	-	-
Yellow perch	1	0	-	-
Prickly sculpin	7	0	-	-
LAKE WASHINGTON				
Cutthroat trout	125	15	18.9	8
Rainbow trout	31	5	23.8	1
Steelhead	2	0	-	-
Hatchery trout	4	0	-	-
Coho salmon	6	2	12.0	1
Chinook salmon	3	0	-	-
Smallmouth bass	76	7	20.0	1
Largemouth bass	7	1	71.0	0
Yellow perch	10	0	-	-
Prickly sculpin	21	2	74.5	0
TOTALS				
Atlantic salmon	1	0	-	-
Cutthroat trout	220	27	18.2	10
Rainbow trout	78	14	27.7	2
Steelhead	3	0	-	-
Hatchery trout	4	0	-	-
Sockeye salmon	1	0	-	-
Coho salmon	6	2	12.0	1
Chinook salmon	3	0	-	-
Smallmouth bass	80	7	20.0	1
Largemouth bass	7	1	71.0	0
Yellow perch	11	0	-	-
Prickly sculpin	28	2	74.5	0

Table 5.--Salmonid fry and other prey fish consumed by predatory fish in two reaches of the lower Cedar River, March-June, 1995. Lower river fish were predominantly collected with boat electroshocking equipment, while upper river fish were all collected with backpack electroshocking equipment. Column headings are described in Table 2.

PREDATORS			SALMONID FRY CONSUMED					OTHER FISH			
LOCATION Species	N	Mean FL (mm)	Sock. Fry	Uni. Sal. Fry	Fry per stom.	FO	Max.	Sock. Pres.	Oth. Sal.	Lar. Fish	Oth. Fish
LOWER RIVER AREA (0-600 m)											
Cutthroat trout	65	216	340	51	6.02	28	70	1	1	1153	29
Rainbow trout	51	213	201	49	4.90	28	79	0	0	847	5
Hatchery trout	18	155	1	0	0.06	6	1	0	0	293	1
Steelhead	3	253	0	0	0	0	0	0	0	0	0
Coho salmon	73	112	66	29	1.30	25	15	0	0	72	2
Chinook salmon	2	157	0	0	0	0	0	0	0	0	0
Sockeye salmon	3	215	0	0	0	0	0	0	0	0	0
Smallmouth bass	4	319	0	3	0.75	25	3	0	0	0	16
Yellow perch	6	182	0	0	0	0	0	0	0	32	24
Prickly sculpin	69	125	14	27	0.59	20	8	0	0	1	15
UPPER RIVER AREA (1114-1700 m)											
Cutthroat trout	3	149	16	1	5.67	67	12	0	0	0	0
Rainbow trout	10	153	10	10	2.00	40	10	0	0	49	0
Hatchery trout	4	137	0	0	0	0	0	0	0	84	0
Coho salmon	7	106	20	3	3.29	71	8	0	0	0	0
Chinook salmon	1	117	0	0	0	0	0	0	0	0	0
Brown bullhead	1	239	0	0	0	0	0	0	1	0	0
Prickly sculpin	15	100	0	4	0.27	13	3	0	0	0	4
Torrent sculpin	2	114	0	0	0	0	0	0	0	0	0
TOTALS											
Cutthroat trout	68	213	356	52	6.00	44	70	1	1	1153	29
Rainbow trout	61	203	211	59	4.43	30	79	0	0	899	3
Hatchery trout	22	152	1	0	0.05	5	1	0	0	377	1
Steelhead	3	253	0	0	0	0	0	0	0	0	0
Coho salmon	80	112	86	32	1.48	29	15	0	0	72	3
Chinook salmon	3	143	0	0	0	0	0	0	0	0	0
Sockeye salmon	3	215	0	0	0	0	0	0	0	0	0
Brown bullhead	1	239	0	0	0	0	0	0	1	0	0
Smallmouth bass	4	319	0	3	0.75	25	3	0	0	0	16
Yellow perch	6	182	0	0	0	0	0	0	0	32	24
Prickly sculpin	84	121	14	31	0.54	19	8	0	0	1	20
Torrent sculpin	2	114	0	0	0	0	0	0	0	0	0

Table 6.--Salmonid fry and other prey fish consumed by predatory fish from three beach seining sites on the lower Cedar River, February-June, 1995. Column headings are described in Table 2.

PREDATORS			SALMONID FRY CONSUMED					OTHER FISH			
LOCATION Species	N	Mean FL (mm)	Sock. Fry	Uni. Sal. Fry	Fry per stom.	FO	Max.	Sock. Pres.	Oth. Sal.	Lar. Fish	Oth. Fish
SITE 1 (265-375 m)											
Atlantic salmon	1	680	0	0	0	0	0	0	0	0	0
Cutthroat trout	34	233	48	16	1.88	44	12	0	0	84	4
Rainbow trout	7	275	3	2	0.71	14	5	0	1	0	0
Hatchery trout	4	156	0	0	0	0	0	0	0	0	0
Steelhead	1	320	0	0	0	0	0	0	0	0	0
Coho salmon	10	114	3	0	0.30	20	2	0	0	48	0
Mountain whitefish	1	256	0	0	0	0	0	0	0	0	0
Prickly sculpin	30	115	35	18	1.77	57	10	0	1	2	3
SITE 2 (432-565 m)											
Cutthroat trout	9	216	0	0	0	0	0	0	0	3	6
Rainbow trout	5	343	0	0	0	0	0	0	0	5	2
Hatchery trout	1	161	0	0	0	0	0	0	0	0	0
Steelhead	3	230	29	8	12.33	67	27	0	0	0	0
Coho salmon	3	117	0	0	0	0	0	0	0	0	0
Mountain whitefish	15	315	0	0	0	0	0	0	0	18	0
Prickly sculpin	5	103	11	1	2.40	40	11	0	0	0	3
SITE 3 (600-700 m)											
Cutthroat trout	2	266	0	0	0	0	0	0	0	6	0
Rainbow trout	3	212	0	0	0	0	0	0	0	0	0
Hatchery trout	8	135	0	0	0	0	0	0	0	0	0
Steelhead	1	232	0	0	0	0	0	0	0	0	0
Coho salmon	4	110	0	0	0	0	0	0	0	3	0
Mountain whitefish	15	265	0	0	0	0	0	0	0	0	0
Prickly sculpin	4	132	0	0	0	0	0	0	0	0	0
TOTALS											
Atlantic salmon	1	680	0	0	0	0	0	0	0	0	0
Cutthroat trout	45	231	48	16	1.42	33	12	0	0	91	8
Rainbow trout	15	281	3	2	0.33	7	5	0	1	5	3
Hatchery trout	13	143	0	0	0	0	0	0	0	0	0
Steelhead	5	248	29	8	7.40	40	27	0	0	0	0
Coho salmon	17	114	3	0	0.18	12	2	0	0	51	0
Mountain whitefish	17	309	0	0	0	0	0	0	0	18	0
Prickly sculpin	39	115	46	19	1.67	49	11	0	1	2	3

Table 7.--Salmonid fry and other prey fish consumed by predatory fish in the lower Cedar River, March-June, 1995. Predatory fish were collected with boat and backpack electroshocking equipment. Column headings are described in Table 2.

PREDATORS			SALMONID FRY CONSUMED					OTHER FISH			
DATE Species	N	Mean FL (mm)	Sock. Fry	Uni. Sal. Fry	Fry per stom.	FO	Max.	Sock. Pres.	Oth. Sal.	Lar. Fish	Oth. Fish
MARCH 27-28											
Cutthroat trout	5	177	57	11	13.60	80	32	0	0	0	0
Rainbow trout	9	228	83	10	10.33	33	79	0	0	0	2
Steelhead	3	253	0	0	0	0	0	0	0	0	0
Coho salmon	2	109	0	0	0	0	0	0	0	0	1
Sockeye salmon	1	245	0	0	0	0	0	0	0	0	0
Prickly sculpin	2	182	0	1	0.50	50	1	0	0	1	0
APRIL 6-13											
Cutthroat trout	9	252	96	9	11.67	55	59	1	1	0	4
Rainbow trout	22	212	77	35	5.09	36	38	0	0	0	0
Coho salmon	7	105	28	6	4.86	100	9	0	0	0	0
Smallmouth bass	1	325	0	0	0	0	0	0	0	0	2
Yellow perch	1	166	0	0	0	0	0	0	0	0	0
Prickly sculpin	41	111	14	28	1.02	34	8	0	0	0	7
MAY 3-4											
Cutthroat trout	12	252	134	28	13.50	75	70	0	0	0	3
Rainbow trout	13	199	50	14	4.92	46	26	0	0	666	1
Coho salmon	40	115	57	25	2.05	38	15	0	0	0	2
Sockeye salmon	1	231	0	0	0	0	0	0	0	0	0
Smallmouth bass	3	317	0	3	1.00	33	3	0	0	0	14
Yellow perch	2	183	0	0	0	0	0	0	0	0	0
Prickly sculpin	19	113	0	2	0.11	11	1	0	0	0	2
MAY 15-16											
Cutthroat trout	7	215	47	2	7.00	57	20	0	0	1	0
Rainbow trout	7	185	1	0	0.14	14	1	0	0	22	0
Hatchery trout	10	142	0	0	0	0	0	0	0	13	1
Coho salmon	29	110	1	1	0.07	3	2	0	0	69	0
Sockeye salmon	1	168	0	0	0	0	0	0	0	0	0
Brown bullhead	1	239	0	0	0	0	0	0	1	0	0
Prickly sculpin	10	131	1	0	0.10	0	0	0	0	0	7
JUNE 5-6											
Cutthroat trout	35	194	22	2	0.69	23	12	0	0	1152	0
Rainbow trout	10	181	0	0	0	0	0	0	0	211	0
Hatchery trout	12	160	1	0	0.08	8	1	0	0	364	0
Coho salmon	2	108	0	0	0	0	0	0	0	3	0
Chinook salmon	3	143	0	0	0	0	0	0	0	0	0
Yellow perch	3	187	0	0	0	0	0	0	0	32	24
Prickly sculpin	12	146	0	0	0	0	0	0	0	1	3
Torrent sculpin	2	114	0	0	0	0	0	0	0	0	0

Table 7.--continued.

PREDATORS			SALMONID FRY CONSUMED					OTHER FISH			
DATE Species	N	Mean FL (mm)	Sock. Fry	Uni. Sal. Fry	Fry per stom.	FO	Max.	Sock. Pres.	Oth. Sal.	Lar. Fish	Oth. Fish
TOTALS											
Cutthroat trout	68	213	356	52	6.00	44	70	1	1	1153	29
Rainbow trout	61	203	211	59	4.43	30	79	0	0	899	3
Hatchery trout	22	152	1	0	0.05	5	1	0	0	377	1
Steelhead	3	253	0	0	0	0	0	0	0	0	0
Coho salmon	80	112	86	32	1.48	29	15	0	0	72	3
Chinook salmon	3	143	0	0	0	0	0	0	0	0	0
Sockeye salmon	3	215	0	0	0	0	0	0	0	0	0
Brown bullhead	1	239	0	0	0	0	0	0	1	0	0
Smallmouth bass	4	319	0	3	0.75	25	3	0	0	0	16
Yellow perch	6	182	0	0	0	0	0	0	0	32	24
Prickly sculpin	84	121	15	31	0.55	19	8	0	0	1	20
Torrent sculpin	2	114	0	0	0	0	0	0	0	0	0

Table 8.--Salmonid fry and other prey fish consumed by predatory fish in the southern Lake Washington, February-June, 1995. Predatory fish were collected with boat electroshocking equipment. Column headings are described in Table 2.

PREDATORS			SALMONID FRY CONSUMED					OTHER FISH			
DATE Species	N	Mean FL (mm)	Sock. Fry	Uni. Sal. Fry	Fry per stom.	FO	Max.	Sock. Pres.	Oth. Sal.	Lar. Fish	Oth. Fish
FEBRUARY 22, 1995											
Cutthroat trout	4	273	1	1	0.50	50	1	0	1	0	3
Rainbow trout	7	200	0	1	0.14	14	1	0	0	0	0
Steelhead	3	250	0	0	0	0	0	0	0	0	0
Coho salmon	1	280	0	0	0	0	0	0	0	0	2
Sockeye salmon	1	139	0	0	0	0	0	0	0	0	1
Largemouth bass	1	131	0	0	0	0	0	0	0	0	0
Smallmouth bass	2	151	0	0	0	0	0	0	0	0	0
Prickly sculpin	1	127	0	0	0	0	0	0	0	0	0
MARCH 16, 1995											
Cutthroat trout	9	214	2	0	0.22	11	2	0	4	0	3
Rainbow trout	11	220	0	0	0	0	0	0	0	0	2
Coho salmon	2	182	0	0	0	0	0	0	1	0	1
Chinook salmon	1	234	0	0	0	0	0	0	0	0	1
Brown bullhead	1	225	0	0	0	0	0	0	0	0	0
Largemouth bass	2	431	0	0	0	0	0	0	0	0	0
Smallmouth bass	1	164	0	0	0	0	0	0	0	0	0
Pumpkinseed	2	150	0	0	0	0	0	0	0	0	0
Yellow perch	3	184	0	0	0	0	0	0	0	0	0
Prickly sculpin	2	166	0	0	0	0	0	0	0	0	0
MARCH 27, 1995											
Cutthroat trout	12	195	0	0	0	0	0	0	1	0	3
Rainbow trout	18	194	0	0	0	0	0	0	0	0	0
Steelhead	4	227	0	0	0	0	0	0	0	0	0
Coho salmon	1	110	0	0	0	0	0	0	0	0	0
Brown bullhead	1	218	0	0	0	0	0	0	0	0	0
Largemouth bass	4	199	0	0	0	0	0	0	0	0	0
Pumpkinseed	1	154	0	0	0	0	0	0	0	0	0
Yellow perch	2	189	0	0	0	0	0	0	0	0	0
Prickly sculpin	4	150	0	0	0	0	0	0	0	0	2
APRIL 11-13, 1995											
Cutthroat trout	12	187	1	0	0.08	8	1	0	0	0	2
Rainbow trout	10	210	0	0	0	0	0	0	0	0	0
Hatchery trout	6	210	0	0	0	0	0	0	0	0	0
Coho salmon	3	121	0	1	0.33	33	1	0	0	0	0
Sockeye salmon	2	182	0	0	0	0	0	0	0	0	1
Brown bullhead	2	216	0	0	0	0	0	0	0	0	0
Largemouth bass	3	161	0	0	0	0	0	0	0	0	0
Smallmouth bass	3	256	1	0	0.33	33	1	0	0	0	1
Yellow perch	2	189	0	0	0	0	0	0	0	0	0
Prickly sculpin	5	134	0	0	0	0	0	0	0	0	0

Table 8, continued

PREDATORS			SALMONID FRY CONSUMED					OTHER FISH			
DATE Species	N	Mean FL (mm)	Sock. Fry	Uni. Sal. Fry	Fry per stom.	FO	Max.	Sock. Pres.	Oth. Sal.	Lar. Fish	Oth. Fish
MAY 1-2, 1995											
Cutthroat trout	45	193	1	0	0.02	2	1	2	4	0	2
Rainbow trout	8	291	0	0	0	0	0	0	0	1	3
Hatchery trout	9	242	0	0	0	0	0	0	0	0	0
Coho salmon	34	143	3	1	0.12	3	4	0	0	4	2
N. squawfish	9	335	0	0	0	0	0	0	0	0	1
Brown bullhead	2	277	0	0	0	0	0	0	0	0	0
Largemouth bass	2	154	0	0	0	0	0	0	0	0	0
Smallmouth bass	21	267	1	0	0.05	5	1	0	0	0	35
Yellow perch	10	192	0	0	0	0	0	0	0	0	0
Prickly sculpin	3	139	0	0	0	0	0	0	0	0	2
MAY 15, 1995											
Cutthroat trout	10	172	0	0	0	0	0	0	0	18	0
Rainbow trout	1	183	0	0	0	0	0	0	0	0	0
Hatchery trout	20	155	0	0	0	0	0	0	0	0	0
Steelhead	1	190	0	0	0	0	0	0	0	0	0
Coho salmon	11	115	0	0	0	0	0	0	0	16	0
Chinook salmon	3	185	0	0	0	0	0	0	0	0	0
N. squawfish	9	268	0	0	0	0	0	0	1	153	0
Brown bullhead	2	222	0	0	0	0	0	0	0	0	0
Largemouth bass	1	114	0	0	0	0	0	0	0	0	1
Smallmouth bass	20	257	0	0	0	0	0	0	5	0	36
Yellow perch	22	197	0	0	0	0	0	0	0	0	2
Prickly sculpin	4	160	0	0	0	0	0	0	0	0	1
JUNE 6, 1995											
Cutthroat trout	18	173	0	0	0	0	0	0	0	634	3
Hatchery trout	26	157	0	0	0	0	0	0	0	593	9
N. squawfish	2	248	0	0	0	0	0	0	0	30	0
Tench	1	528	0	0	0	0	0	0	0	0	0
Brown bullhead	10	262	0	0	0	0	0	0	0	0	0
Largemouth bass	2	250	0	0	0	0	0	0	1	0	4
Smallmouth bass	28	232	0	0	0	0	0	0	2	7	20
Yellow perch	24	194	0	0	0	0	0	0	0	405	110
TOTALS											
Cutthroat trout	110	192	4	1	0.05	4	2	2	10	652	16
Rainbow trout	54	213	0	1	0.02	2	1	0	0	1	5
Hatchery trout	61	179	0	0	0	0	0	0	0	593	9
Steelhead	8	234	0	0	0	0	0	0	0	0	0
Coho salmon	52	139	3	2	0.10	4	4	0	1	0	5
Chinook salmon	4	197	0	0	0	0	0	0	0	0	0
Sockeye salmon	3	167	0	0	0	0	0	0	0	0	1
N. squawfish	20	296	0	0	0	0	0	0	1	183	1
Tench	1	528	0	0	0	0	0	0	0	0	0
Brown bullhead	18	251	0	0	0	0	0	0	0	0	0
Largemouth bass	14	212	0	0	0	0	0	0	1	0	5
Smallmouth bass	75	246	2	0	0.03	3	0	0	7	7	92
Pumpkinseed	3	151	0	0	0	0	0	0	0	0	0
Yellow perch	63	193	0	0	0	0	0	0	0	405	113
Prickly sculpin	19	145	0	0	0	0	0	0	0	0	5

Table 9.--Salmonid fry and other prey fish consumed by predatory fish in the southern Lake Washington, February-May, 1995. Predatory fish were collected at eight sites with beach seining equipment. Column headings are described in Table 2.

PREDATORS			SALMONID FRY CONSUMED					OTHER FISH			
DATE Species	N	Mean FL (mm)	Sock. Fry	Uni. Sal. Fry	Fry per stom.	FO	Max.	Sock. Pres.	Oth. Sal.	Lar. Fish	Oth. Fish
FEBRUARY 6, 1995											
Coho salmon	2	294	0	0	0	0	0	0	0	0	1
Largemouth bass	1	101	0	0	0	0	0	0	0	0	0
Prickly sculpin	9	122	0	0	0	0	0	0	0	0	4
FEBRUARY 27, 1995											
Rainbow trout	1	143	0	0	0	0	0	0	0	0	0
Yellow perch	1	184	0	0	0	0	0	0	0	0	0
Prickly sculpin	10	110	0	0	0	0	0	0	0	0	1
MARCH 22, 1995											
Cutthroat trout	4	178	1	0	0.25	25	1	0	0	0	1
Rainbow trout	1	232	0	0	0	0	0	0	0	0	0
Coho salmon	2	179	2	0	1.00	50	2	0	0	0	0
Chinook salmon	1	280	0	0	0	0	0	0	0	0	1
Yellow perch	2	185	0	0	0	0	0	0	0	0	1
Prickly sculpin	11	119	1	0	0.09	9	1	0	0	0	1
APRIL 3, 1995											
Cutthroat trout	5	182	0	0	0	0	0	0	0	0	0
Rainbow trout	1	227	0	0	0	0	0	0	0	0	0
Coho salmon	2	179	0	0	0	0	0	0	0	0	0
Steelhead	2	247	0	0	0	0	0	0	0	0	0
Smallmouth bass	1	330	0	0	0	0	0	0	0	0	0
Yellow perch	1	151	0	0	0	0	0	0	0	0	0
Prickly sculpin	17	121	0	0	0	0	0	0	0	0	1
APRIL 19, 1995											
Cutthroat trout	20	197	20	7	1.35	15	21	0	0	0	2
Hatchery trout	2	207	0	0	0	0	0	0	0	0	0
Coho salmon	11	121	2	1	0.27	9	3	0	0	0	0
Smallmouth bass	1	283	0	0	0	0	0	0	0	0	1
Prickly sculpin	4	112	0	0	0	0	0	0	0	0	1
MAY 10, 1995											
Cutthroat trout	10	178	0	0	0	0	0	0	0	0	1
Rainbow trout	5	144	0	0	0	0	0	0	0	0	0
Hatchery trout	6	157	0	0	0	0	0	0	0	0	0
Coho salmon	31	140	0	0	0	0	0	0	0	2	0
N. squawfish	2	327	0	0	0	0	0	0	0	0	0
Smallmouth bass	5	309	0	0	0	0	0	0	2	0	5
Prickly sculpin	10	122	0	0	0	0	0	0	0	0	0
MAY 31, 1995											
Cutthroat trout	2	175	0	3	1.50	50	3	0	0	26	0
Hatchery trout	12	142	0	0	0	0	0	0	0	110	0
Brown bullhead	2	280	0	0	0	0	0	0	0	0	0
Smallmouth bass	2	210	0	0	0	0	0	0	0	0	1
Yellow perch	9	184	0	0	0	0	0	0	0	75	0
Prickly sculpin	11	136	0	0	0	0	0	0	0	1	2

Table 9, continued

PREDATORS			SALMONID FRY CONSUMED					OTHER FISH			
DATE Species	N	Mean FL (mm)	Sock. Fry	Uni. Sal. Fry	Fry per stom.	FO	Max.	Sock. Pres.	Oth. Sal.	Lar. Fish	Oth. Fish
TOTALS											
Cutthroat trout	41	188	21	10	0.76	12	21	0	0	26	4
Rainbow trout	8	165	0	0	0	0	0	0	0	0	0
Hatchery trout	20	153	0	0	0	0	0	0	0	110	0
Steelhead	2	247	0	0	0	0	0	0	0	0	0
Coho salmon	48	145	4	1	0.10	4	3	0	0	2	1
Chinook salmon	1	280	0	0	0	0	0	0	0	0	1
N. squawfish	2	327	0	0	0	0	0	0	0	183	0
Brown bullhead	2	280	0	0	0	0	0	0	0	0	0
Largemouth bass	1	101	0	0	0	0	0	0	0	0	0
Smallmouth bass	9	286	0	0	0	0	0	0	2	0	7
Yellow perch	13	181	0	0	0	0	0	0	0	75	1
Prickly sculpin	72	121	1	0	0.01	1	1	0	0	1	9

Table 10.-- Percent frequency of occurrence (FO) and percent by weight (WT) of prey consumed by cutthroat trout, rainbow trout, hatchery rainbow trout, and coho salmon in the lower Cedar River (all sites and months combined), 1995.

Prey group	Cutthroat trout		Rainbow trout		Hatchery rainbow trout		Coho salmon	
	FO (%)	WT (%)	FO (%)	WT (%)	FO (%)	WT (%)	FO (%)	WT (%)
N	113		77		35		92	
Empty stomachs	9.7		14.3		0.0		6.5	
Fish	65.5	84.9	41.6	64.5	42.6	31.4	39.1	56.1
Petromyzontidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmonidae	40.7	66.4	27.3	51.5	2.9	0.4	28.3	51.1
Sockeye fry	31.9	63.5	24.7	45.9	2.9	0.4	25.0	45.6
Unidentified salmonid fry	22.1	1.6	11.7	5.3	0.0	0.0	18.5	4.8
Other sockeye	0.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Chinook salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coho salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trout	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mountain whitefish	0.9	0.2	1.3	0.3	0.0	0.0	0.0	0.0
Unidentified salmonids	0.9	0.1	0.0	0.0	0.0	0.0	1.1	0.6
Osmeridae	3.5	4.6	5.2	7.4	0.0	0.0	0.0	0.0
Catostomidae	20.4	11.6	6.5	3.8	17.1	27.5	4.3	4.2
Cyprinidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasterosteidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cottidae	4.4	1.7	2.6	1.6	2.9	0.5	0.0	0.0
Other fish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unidentified non-salmonids	15.0	0.5	6.5	0.3	22.6	3.0	9.8	0.9
Fish eggs	10.6	2.5	14.3	13.4	11.4	1.3	10.9	2.0
Crustacea	3.5	0.1	3.9	0.2	8.6	0.3	3.3	0.1
Cladocera	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Copepoda	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Amphipoda	0.9	0.0	3.9	0.1	2.9	0.1	1.1	0.0
Isopoda	0.0	0.0	1.3	0.1	5.7	0.2	0.0	0.0
Mysidacea	2.7	0.1	0.0	0.0	0.0	0.0	1.1	0.1
Decapoda	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Insecta	77.9	10.1	76.6	19.8	97.1	48.2	88.0	40.3
Diptera	56.6	2.8	44.2	2.8	88.6	10.7	71.7	14.9
Ephemeroptera	40.7	3.9	26.0	1.7	74.3	13.4	55.4	11.8
Plecoptera	18.6	0.8	15.6	1.0	28.6	1.8	37.0	5.6
Trichoptera	16.8	0.4	40.3	6.3	40.0	4.4	17.4	1.5
Hymenoptera	12.4	0.3	10.4	0.5	28.6	1.9	15.2	0.4
Other insects	46.9	1.8	58.4	7.5	71.4	15.8	69.6	6.2
Mollusca	0.9	0.1	2.6	0.1	5.7	2.6	0.0	0.0
Annelida	0.0	0.0	1.3	0.6	2.9	9.4	1.1	0.7
Oligochaeta	0.0	0.0	1.3	0.6	2.9	9.4	1.1	0.7
Hirudinea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plant material	18.6	0.8	15.6	0.5	45.7	5.0	3.3	0.1
Other food	12.4	1.6	19.5	1.0	11.4	1.5	15.2	0.6

Table 11.-- Percent frequency of occurrence (FO) and percent by weight (WT) of prey consumed by cutthroat trout, rainbow trout, hatchery rainbow trout, and coho salmon in southern Lake Washington (all sites and months combined), 1995.

	Cutthroat trout		Rainbow trout		Hatchery rainbow trout		Coho salmon	
Prey group	FO (%)	WT (%)	FO (%)	WT (%)	FO (%)	WT (%)	FO (%)	WT (%)
N	151		63		84		100	
Empty stomachs	18.5		25.4		7.1		10.0	
Fish	31.1	28.8	7.9	5.4	26.2	18.1	18.0	15.8
Petromyzontidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmonidae	9.3	10.1	1.6	0.4	0.0	0.0	5.0	3.8
Sockeye fry	4.0	4.9	0.0	0.0	0.0	0.0	3.0	2.1
Unidentified salmonid fry	3.3	1.0	1.6	0.4	0.0	0.0	3.0	0.8
Other sockeye	0.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
Chinook salmon	1.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Coho salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trout	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mountain whitefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unidentified salmonids	3.3	1.3	0.0	0.0	0.0	0.0	1.0	0.8
Osmeridae	3.3	2.6	3.2	0.6	0.0	0.0	4.0	10.7
Catostomidae	10.6	8.6	0.0	0.0	11.9	13.8	3.0	0.6
Cyprinidae	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Gasterosteidae	0.7	0.0	0.0	0.0	2.4	0.2	0.0	0.0
Percidae	2.0	2.6	3.2	4.3	1.2	0.7	0.0	0.0
Cottidae	12.6	3.9	0.0	0.0	10.7	2.9	3.0	0.2
Other fish	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
Unidentified non-salmonids	9.3	0.3	0.0	0.0	8.3	0.5	7.0	0.5
Fish eggs	4.0	18.7	4.8	1.6	1.2	0.0	2.0	0.1
Crustacea	20.0	5.0	28.6	2.9	38.1	7.9	21.0	6.6
Cladocera	2.6	0.0	1.6	0.0	10.7	2.7	9.0	5.2
Copepoda	0.0	0.0	1.6	0.0	11.9	0.5	4.0	0.0
Amphipoda	11.9	0.4	19.0	0.5	20.2	3.3	8.0	0.5
Isopoda	1.3	0.2	6.3	0.7	4.8	0.7	3.0	0.1
Mysidacea	5.3	0.4	6.3	1.6	0.0	0.0	3.0	0.7
Decapoda	2.0	3.9	0.0	0.0	4.8	0.7	0.0	0.0
Insecta	75.5	35.2	63.5	59.4	90.5	60.4	88.0	76.6
Diptera	68.9	27.4	54.0	47.8	85.7	22.8	87.0	57.6
Ephemeroptera	4.0	0.1	7.9	0.2	29.8	22.8	3.0	0.2
Plecoptera	0.0	0.0	3.2	0.2	1.2	0.0	0.0	0.0
Trichoptera	4.6	0.2	0.0	0.0	16.7	1.9	2.0	0.1
Hymenoptera	7.3	0.5	7.9	0.6	13.1	4.0	10.0	0.5
Other insects	38.4	6.9	44.4	10.5	66.7	8.8	65.0	18.2
Mollusca	3.3	1.0	1.6	0.4	6.0	0.5	0.0	0.0
Annelida	7.3	9.4	6.3	22.6	4.8	2.7	0.0	0.0
Oligochaeta	6.0	8.9	4.8	22.3	2.4	1.1	0.0	0.0
Hirudinea	2.0	0.5	1.6	0.3	2.4	1.6	0.0	0.0
Plant material	23.2	1.7	22.2	7.2	46.4	6.9	9.0	0.7
Other food	7.9	0.2	22.2	0.7	14.3	3.5	3.0	0.3

Table 12.-- Percent frequency of occurrence (FO) and percent by weight (WT) of prey consumed by mountain whitefish, steelhead, and prickly sculpin in the lower Cedar River (all sites and months combined), 1995.

Prey group	Mountain whitefish FO (%)	Mountain whitefish WT (%)	Steelhead FO (%)	Steelhead WT (%)	Prickly sculpin FO (%)	Prickly sculpin WT (%)
N	17		8		126	
Empty stomachs	0.0		12.5		16.7	
Fish	11.8	0.3	37.5	69.4	50.0	67.2
Petromyzontidae	0.0	0.0	0.0	0.0	7.9	18.8
Salmonidae	0.0	0.0	37.5	63.5	29.4	34.8
Sockeye fry	0.0	0.0	37.5	58.3	11.9	28.9
Unidentified salmonid fry	0.0	0.0	25.0	5.2	19.0	5.8
Other sockeye	0.0	0.0	0.0	0.0	0.0	0.0
Chinook salmon	0.0	0.0	0.0	0.0	0.0	0.0
Coho salmon	0.0	0.0	0.0	0.0	0.0	0.0
Trout	0.0	0.0	0.0	0.0	0.0	0.0
Mountain whitefish	0.0	0.0	0.0	0.0	0.8	0.2
Unidentified salmonids	0.0	0.0	0.0	0.0	0.0	0.0
Osmeridae	0.0	0.0	0.0	0.0	1.6	1.5
Catostomidae	11.8	0.3	0.0	0.0	0.0	0.0
Cyprinidae	0.0	0.0	0.0	0.0	0.0	0.0
Gasterosteidae	0.0	0.0	0.0	0.0	0.8	0.0
Percidae	0.0	0.0	0.0	0.0	0.0	0.0
Cottidae	0.0	0.0	12.5	5.9	5.6	11.0
Other fish	0.0	0.0	0.0	0.0	0.0	0.0
Unidentified non-salmonids	0.0	0.0	0.0	0.0	7.1	1.1
Fish eggs	64.7	52.5	12.5	1.5	8.7	7.1
Crustacea	11.8	0.6	0.0	0.0	17.5	3.3
Cladocera	0.0	0.0	0.0	0.0	0.0	0.0
Copepoda	0.0	0.0	0.0	0.0	0.0	0.0
Amphipoda	0.0	0.0	0.0	0.0	5.6	0.99
Isopoda	11.8	0.6	0.0	0.0	4.8	0.5
Mysidacea	0.0	0.0	0.0	0.0	4.0	0.2
Decapoda	0.0	0.0	0.0	0.0	4.0	1.8
Insecta	100	41.0	62.5	20.7	58.7	8.4
Diptera	88.2	2.7	12.5	0.4	23.0	1.4
Ephemeroptera	88.2	2.4	37.5	1.0	26.2	2.0
Plecoptera	17.6	0.2	12.5	1.8	9.5	2.6
Trichoptera	94.1	25.4	0.0	0.0	14.3	1.0
Hymenoptera	5.9	0.0	12.5	1.8	0.8	0.0
Other insects	88.2	10.2	62.5	15.7	20.6	1.4
Mollusca	0.0	0.0	12.5	8.4	1.6	0.2
Annelida	5.9	0.1	12.5	0.1	8.7	8.8
Oligochaeta	5.9	0.1	12.5	0.1	1.6	0.7
Hirudinea	0.0	0.0	0.0	0.0	7.1	8.0
Plant material	41.2	1.2	0.0	0.0	16.7	2.4
Other food	29.4	4.2	0.0	0.0	7.9	2.6

Table 13.-- Percent frequency of occurrence (FO) and percent by weight (WT) of prey consumed by northern squawfish, smallmouth bass, yellow perch, and prickly sculpin in the southern Lake Washington (all sites and months combined), 1995.

	Nothern squawfish		Smallmouth bass		Yellow perch		Prickly sculpin	
Prey group	FO (%)	WT (%)	FO (%)	WT (%)	FO (%)	WT (%)	FO (%)	WT (%)
N	22		84		76		82	
Empty stomachs	31.8		22.6		31.6		17.1	
Fish	31.8	44.8	64.3	73.6	38.2	50.6	18.3	11.4
Petromyzontidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmonidae	4.5	5.8	13.1	8.6	0.0	0.0	1.2	0.0
Sockeye fry	0.0	0.0	2.4	0.1	0.0	0.0	1.2	0.0
Unidentified salmonid fry	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other sockeye	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chinook salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coho salmon	0.0	0.0	2.4	4.8	0.0	0.0	0.0	0.0
Trout	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mountain whitefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unidentified salmonids	4.5	5.8	8.3	3.7	0.0	0.0	0.0	0.0
Osmeridae	0.0	0.0	1.2	4.5	0.0	0.0	0.0	0.0
Catostomidae	13.6	13.5	1.2	0.0	7.9	12.5	1.2	0.0
Cyprinidae	0.0	0.0	8.3	12.2	0.0	0.0	0.0	0.0
Gasterosteidae	4.5	0.9	2.4	0.2	0.0	0.0	2.4	0.4
Percidae	0.0	0.0	11.9	9.2	0.0	0.0	1.2	0.4
Cottidae	18.1	17.9	40.5	38.6	32.9	36.9	11.0	10.6
Other fish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unidentified non-salmonids	4.5	6.6	13.1	0.3	13.2	1.2	2.4	0.0
Fish eggs	0.0	0.0	0.0	0.0	7.9	22.5	36.6	58.9
Crustacea	13.6	33.2	47.6	25.7	30.3	19.4	50.0	7.1
Cladocera	0.0	0.0	1.2	0.0	5.3	4.9	0.0	0.0
Copepoda	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0
Amphipoda	0.0	0.0	4.8	0.1	6.6	0.2	36.6	1.8
Isopoda	9.1	21.2	1.2	0.0	2.6	0.0	8.5	0.9
Mysidacea	0.0	0.0	8.3	0.8	17.1	13.7	4.9	0.1
Decapoda	4.5	11.9	34.5	24.8	3.9	0.7	4.9	4.3
Insecta	27.3	10.2	19.0	0.4	36.8	2.5	42.7	1.5
Diptera	9.1	1.3	14.3	0.1	21.1	1.2	34.1	0.7
Ephemeroptera	0.0	0.0	3.6	0.0	1.3	0.1	3.7	0.0
Plecoptera	0.0	0.0	1.2	0.2	0.0	0.0	0.0	0.0
Trichoptera	0.0	0.0	0.0	0.0	13.2	1.0	3.7	0.2
Hymenoptera	4.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0
Other insects	18.2	4.8	2.4	0.1	9.2	0.1	9.8	0.6
Mollusca	0.0	0.0	1.2	0.0	9.2	3.3	13.4	0.6
Annelida	0.0	0.0	1.2	0.1	1.3	0.0	23.2	17.2
Oligochaeta	0.0	0.0	1.2	0.1	0.0	0.0	13.4	16.8
Hirudinea	0.0	0.0	0.0	0.0	1.3	0.0	12.2	0.4
Plant material	13.6	10.4	7.1	0.2	21.1	1.1	30.5	2.4
Other food	13.6	1.4	1.2	0.0	13.2	0.7	12.2	0.8