



Alaska Department of Environmental Conservation

Office of the State Veterinarian

Fish Monitoring Program

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Organochlorine Pesticides in Alaska's Fishes

Fish Samples collected: 2001-2022

Concentration in $\mu\text{g}/\text{Kg}$ wet weight (parts per billion)

ND = Non-detect in greater than 50% of fish samples

Visit the Fish Monitoring Program webpage for more information:
<http://www.dec.alaska.gov/eh/vet/fish-monitoring-program>

For State of Alaska fish consumption recommendations visit:
<http://www.dhss.alaska.gov/dph/Epi/eph/Pages/fish/default.aspx>

Table 1: Sum of DDTs in Alaskan Fishes

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Alaska Plaice	C-Muscle	1	1	ND	NA	ND	ND	ND
Arctic Char	Fillet	1	0	70.38	NA	70.38	70.38	70.38
Arctic Grayling	Liver	4	2	ND	NA	ND	ND	ND
Arctic Grayling	Whole Body	4	0	304.47	393.93	193.05	0.81	830.97
Bering Cisco	Fillet	5	3	ND	NA	ND	ND	ND
Big Skate	Fillet	2	2	ND	NA	ND	ND	ND
Big Skate	Liver	2	0	12.21	6.00	12.21	7.96	16.45
Blue Mussel	C-Invert Whole	1	1	ND	NA	ND	ND	ND
Broad Whitefish	C-Muscle	3	3	ND	NA	ND	ND	ND
Burbot	Fillet	3	1	0.45	0.53	0.25	0.05	1.06
Burbot	Liver	3	1	44.78	37.33	25.43	21.1	87.81
Capelin	C-Whole Body	1	0	0.3	NA	0.3	0.3	0.3
Chum Salmon	C-Muscle	1	0	0.54	NA	0.54	0.54	0.54
Chum Salmon	Fillet	23	2	1.63	1.36	1.28	0.4	6.89
Coho Salmon	Belly	10	0	3.56	2.09	2.68	0.77	7.39
Coho Salmon	C-Fry	7	1	3.46	3.32	1.27	0.44	7.69
Coho Salmon	C-Juvenile	1	0	0.86	NA	0.86	0.86	0.86
Coho Salmon	Eggs	19	0	3.03	0.83	2.9	1.73	4.56
Coho Salmon	Fillet	81	21	0.96	0.45	0.96	0.19	2.31
Coho Salmon	Fry-Whole	1	0	12.49	NA	12.49	12.49	12.49
Coho Salmon	Juvenile-Whole	7	3	1.48	0.84	1.68	0.36	2.67
Coho Salmon	Testis	6	3	ND	NA	ND	ND	ND
Coho Salmon	Whole Body	54	1	2.63	0.61	2.63	1.52	3.8
Dolly Varden	C-Whole Body	3	0	1.68	0.26	1.79	1.38	1.86
Dolly Varden	Fillet	1	0	33.27	NA	33.27	33.27	33.27
Dungeness Crab Tissue	Invert-Muscle	2	1	ND	NA	ND	ND	ND
Dusky Rockfish	Fillet	15	10	ND	NA	ND	ND	ND
Eulachon	C-Whole Body	7	1	1.31	0.09	1.32	1.17	1.4
Humpback Whitefish	Fillet	12	10	ND	NA	ND	ND	ND
Humpback Whitefish	Whole Body	2	1	ND	NA	ND	ND	ND
King Salmon	C-Fry	7	0	1.46	1.20	0.97	0.62	4.05
King Salmon	C-Juvenile	3	1	0.19	0.03	0.17	0.16	0.23
King Salmon	C-Muscle	1	0	2.39	NA	2.39	2.39	2.39
King Salmon	C-Whole Body	1	0	0.14	NA	0.14	0.14	0.14
King Salmon	Fillet	70	0	8.51	4.00	7.94	1.21	19.07
King Salmon	Whole Body	15	0	14.53	5.76	14.07	5.81	24.94
Lake Trout	Fillet	2	1	ND	NA	ND	ND	ND

Table 1: Sum of DDTs in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Lake Trout	Whole Body	2	0	39.99	41.88	39.99	10.38	69.6
Least Cisco	Fillet	5	4	ND	NA	ND	ND	ND
Least Cisco	Liver	1	1	ND	NA	ND	ND	ND
Least Cisco	Whole Body	1	0	0.41	NA	0.41	0.41	0.41
Longnose Skate	Fillet	2	2	ND	NA	ND	ND	ND
Longnose Skate	Liver	2	0	46.57	32.26	46.57	23.75	69.38
Northern Pike	C-Muscle	6	1	1.63	2.22	0.29	0.09	4.64
Northern Pike	Fillet	11	8	ND	NA	ND	ND	ND
Northern Pike	Whole Body	10	5	ND	NA	ND	ND	ND
Northernrock Sole	C-Muscle	1	0	0.19	NA	0.19	0.19	0.19
Pacific Cod	Fillet	5	1	0.16	0.09	0.13	0.1	0.31
Pacific Halibut	C-Muscle	23	5	2.98	3.82	1.14	0.3	15.48
Pacific Halibut	Fillet	88	14	6.99	10.73	3.49	0.11	62.5
Pacific Herring	C-Whole Body	11	6	ND	NA	ND	ND	ND
Pacific Herring	Eggs	1	0	0.43	NA	0.43	0.43	0.43
Pacific Herring	Fillet	1	1	ND	NA	ND	ND	ND
Pink Salmon	Fillet	11	1	0.64	0.14	0.64	0.48	0.98
Sablefish	C-Muscle	4	1	9.07	17.44	0.48	0.1	35.23
Sablefish	Fillet	23	2	20.44	25.83	9.49	0.52	106.67
Sablefish	Whole Body	3	0	33.3	18.57	35.84	13.59	50.47
Saffron Cod	Whole Body	9	6	ND	NA	ND	ND	ND
Salmon Shark	Fillet	8	1	61.24	38.08	53.83	20.44	117.09
Sand Lance	C-Whole Body	1	0	0.27	NA	0.27	0.27	0.27
Sheefish	Eggs	1	0	3.82	NA	3.82	3.82	3.82
Sheefish	Fillet	26	11	1.47	1.35	1.03	0.13	4.66
Sheefish	Whole Body	5	0	4.89	2.51	6.24	1.12	6.91
Shortraker	Fillet	5	1	1.65	1.19	1.22	0.51	3.65
Rockfish								
Sleeper Shark	Fillet	1	0	48.74	NA	48.74	48.74	48.74
Snow Crab	C-Muscle	1	1	ND	NA	ND	ND	ND
Sockeye Salmon	C-Fry	3	0	6.17	2.78	7.3	3	8.21
Sockeye Salmon	C-Muscle	1	0	3.38	NA	3.38	3.38	3.38
Sockeye Salmon	C-Whole Body	6	0	8.94	3.29	8.86	5.15	13.22
Sockeye Salmon	Eggs	2	0	4.47	3.36	4.47	2.09	6.84
Sockeye Salmon	Fillet	45	6	6.94	6.06	4.52	0.06	22.08
Sockeye Salmon	Whole Body	16	0	5.17	2.46	4.9	1.4	9.71
Spiny Dogfish	Fillet	5	0	26.57	9.28	27.07	14.75	39.42
Starry Flounder	C-Whole Body	3	2	ND	NA	ND	ND	ND
Walleye Pollock	Fillet	15	7	0.53	0.63	0.19	0.06	2.26

Table 1: Sum of DDTs in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Yellowfin Sole	C-Muscle	1	1	ND	NA	ND	ND	ND

Note:

n= sample size

ND = non-detect

Mean = arithmetic mean

SD = standard deviation

C = Composite of multiple individuals

Table 2: Sum of Chlordanes in Alaskan Fishes

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Alaska Plaice	C-Muscle	1	0	0.09	NA	0.09	0.09	0.09
Arctic Char	Fillet	1	1	ND	NA	ND	ND	ND
Arctic Grayling	Liver	4	3	ND	NA	ND	ND	ND
Arctic Grayling	Whole Body	4	0	1.35	2.24	0.33	0.03	4.7
Bering Cisco	Fillet	5	2	0.18	0.22	0.1	0.04	0.56
Big Skate	Fillet	2	1	ND	NA	ND	ND	ND
Big Skate	Liver	2	0	2.95	1.32	2.95	2.01	3.88
Blue Mussel	C-Invert Whole	1	0	0.11	NA	0.11	0.11	0.11
Broad Whitefish	C-Muscle	3	2	ND	NA	ND	ND	ND
Burbot	Fillet	3	2	ND	NA	ND	ND	ND
Burbot	Liver	3	2	ND	NA	ND	ND	ND
Capelin	C-Whole Body	1	0	0.26	NA	0.26	0.26	0.26
Chum Salmon	C-Muscle	1	1	ND	NA	ND	ND	ND
Chum Salmon	Fillet	23	6	10.08	27.37	0.43	0.11	106.92
Coho Salmon	Belly	10	1	0.69	0.36	0.61	0.26	1.42
Coho Salmon	C-Fry	7	1	0.26	0.25	0.1	0.07	0.69
Coho Salmon	C-Juvenile	1	0	0.36	NA	0.36	0.36	0.36
Coho Salmon	Eggs	19	8	0.57	0.24	0.5	0.33	1.36
Coho Salmon	Fillet	81	32	0.21	0.10	0.2	0	0.55
Coho Salmon	Fry-Whole	1	1	ND	NA	ND	ND	ND
Coho Salmon	Juvenile-Whole	7	2	0.16	0.07	0.15	0.08	0.27
Coho Salmon	Testis	6	1	0.07	0.03	0.08	0.03	0.09
Coho Salmon	Whole Body	54	15	0.6	0.21	0.54	0.42	1.67
Dolly Varden	C-Whole Body	3	1	0.25	0.12	0.2	0.17	0.38
Dolly Varden	Fillet	1	0	0.18	NA	0.18	0.18	0.18
Dungeness Crab Tissue	Invert-Muscle	2	2	ND	NA	ND	ND	ND
Dusky Rockfish	Fillet	15	5	0.42	1.20	0.11	0	4.72
Eulachon	C-Whole Body	7	1	0.75	0.12	0.78	0.53	0.9
Humpback Whitefish	Fillet	12	7	ND	NA	ND	ND	ND
Humpback Whitefish	Whole Body	2	1	ND	NA	ND	ND	ND
King Salmon	C-Fry	7	2	0.14	0.18	0.09	0	0.53
King Salmon	C-Juvenile	3	3	ND	NA	ND	ND	ND
King Salmon	C-Muscle	1	0	0.38	NA	0.38	0.38	0.38
King Salmon	C-Whole Body	1	1	ND	NA	ND	ND	ND
King Salmon	Fillet	70	9	7.79	23.10	1.75	0.42	154.05
King Salmon	Whole Body	15	3	10.8	12.15	3.75	1.47	37.99
Lake Trout	Fillet	2	0	0.43	0.41	0.43	0.14	0.72

Table 2: Sum of Chlordanes in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Lake Trout	Whole Body	2	0	2.2	1.22	2.2	1.34	3.07
Least Cisco	Fillet	5	5	ND	NA	ND	ND	ND
Least Cisco	Liver	1	1	ND	NA	ND	ND	ND
Least Cisco	Whole Body	1	0	0.08	NA	0.08	0.08	0.08
Longnose Skate	Fillet	2	0	0.05	0.03	0.05	0.03	0.08
Longnose Skate	Liver	2	0	10.49	6.62	10.49	5.81	15.17
Northern Pike	C-Muscle	6	3	ND	NA	ND	ND	ND
Northern Pike	Fillet	11	6	ND	NA	ND	ND	ND
Northern Pike	Whole Body	10	1	0.24	0.21	0.16	0.09	0.8
Northernrock Sole	C-Muscle	1	0	0.08	NA	0.08	0.08	0.08
Pacific Cod	Fillet	5	4	ND	NA	ND	ND	ND
Pacific Halibut	C-Muscle	23	10	0.33	0.39	0.14	0	1.57
Pacific Halibut	Fillet	88	35	0.58	0.87	0.32	0	6.64
Pacific Herring	C-Whole Body	11	3	0.79	0.38	0.7	0.1	1.42
Pacific Herring	Eggs	1	1	ND	NA	ND	ND	ND
Pacific Herring	Fillet	1	1	ND	NA	ND	ND	ND
Pink Salmon	Fillet	11	2	0.17	0.05	0.16	0.11	0.31
Sablefish	C-Muscle	4	0	1.17	2.13	0.13	0.06	4.36
Sablefish	Fillet	23	2	2.48	2.25	2.35	0.11	7.34
Sablefish	Whole Body	3	0	5.22	1.61	5.96	3.38	6.32
Saffron Cod	Whole Body	9	5	ND	NA	ND	ND	ND
Salmon Shark	Fillet	8	0	8.35	5.99	6.88	2.48	18.39
Sand Lance	C-Whole Body	1	0	0.1	NA	0.1	0.1	0.1
Sheefish	Eggs	1	0	2.06	NA	2.06	2.06	2.06
Sheefish	Fillet	26	8	0.49	0.45	0.36	0	1.75
Sheefish	Whole Body	5	0	1.99	0.85	1.9	0.75	2.94
Shorthead	Fillet	5	0	0.2	0.13	0.15	0.1	0.42
Rockfish								
Sleeper Shark	Fillet	1	0	11.66	NA	11.66	11.66	11.66
Snow Crab	C-Muscle	1	0	0.06	NA	0.06	0.06	0.06
Sockeye Salmon	C-Fry	3	1	0.94	0.64	1.11	0.23	1.47
Sockeye Salmon	C-Muscle	1	0	0.31	NA	0.31	0.31	0.31
Sockeye Salmon	C-Whole Body	6	2	0.95	0.19	0.92	0.68	1.18
Sockeye Salmon	Eggs	2	1	ND	NA	ND	ND	ND
Sockeye Salmon	Fillet	45	10	8.89	23.99	0.67	0	110.71
Sockeye Salmon	Whole Body	16	6	0.78	0.26	0.77	0.37	1.15
Spiny Dogfish	Fillet	5	1	3.7	1.23	3.96	2.52	5.49
Starry Flounder	C-Whole Body	3	2	ND	NA	ND	ND	ND
Walleye Pollock	Fillet	15	5	0.19	0.20	0.11	0.03	0.79

Table 2: Sum of Chlordanes in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Yellowfin Sole	C-Muscle	1	0	0.13	NA	0.13	0.13	0.13

Note:

n= sample size

ND = non-detect

Mean = arithmetic mean

SD = standard deviation

C = Composite of multiple individuals

Table 3: Dieldrin in Alaskan Fishes

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Alaska Plaice	C-Muscle	1	1	ND	NA	ND	ND	ND
Arctic Char	Fillet	1	0	0.08	NA	0.08	0.08	0.08
Arctic Grayling	Liver	4	4	ND	NA	ND	ND	ND
Arctic Grayling	Whole Body	4	3	ND	NA	ND	ND	ND
Bering Cisco	Fillet	5	4	ND	NA	ND	ND	ND
Big Skate	Fillet	2	2	ND	NA	ND	ND	ND
Big Skate	Liver	2	0	1.68	0.17	1.68	1.56	1.80
Blue Mussel	C-Invert Whole	1	0	0.08	NA	0.08	0.08	0.08
Broad Whitefish	C-Muscle	3	1	0.16	0.00	0.16	0.16	0.16
Burbot	Fillet	3	3	ND	NA	ND	ND	ND
Burbot	Liver	3	1	0.35	0.03	0.35	0.32	0.37
Capelin	C-Whole Body	1	0	0.38	NA	0.38	0.38	0.38
Chum Salmon	C-Muscle	1	0	0.10	NA	0.10	0.10	0.10
Chum Salmon	Fillet	23	0	0.28	0.14	0.27	0.06	0.66
Coho Salmon	Belly	10	0	0.44	0.20	0.42	0.15	0.79
Coho Salmon	C-Fry	7	0	0.56	0.98	0.07	0.06	2.75
Coho Salmon	C-Juvenile	1	0	0.11	NA	0.11	0.11	0.11
Coho Salmon	Eggs	19	0	0.35	0.08	0.34	0.21	0.50
Coho Salmon	Fillet	81	5	0.13	0.07	0.12	0.04	0.35
Coho Salmon	Fry-Whole	1	0	0.38	NA	0.38	0.38	0.38
Coho Salmon	Juvenile-Whole	7	0	0.09	0.03	0.09	0.05	0.13
Coho Salmon	Testis	6	1	0.06	0.02	0.06	0.04	0.09
Coho Salmon	Whole Body	54	0	0.30	0.08	0.29	0.14	0.46
Dolly Varden	C-Whole Body	3	1	0.21	0.06	0.21	0.17	0.25
Dolly Varden	Fillet	1	1	ND	NA	ND	ND	ND
Dungeness Crab Tissue	Invert-Muscle	2	1	ND	NA	ND	ND	ND
Dusky Rockfish	Fillet	15	12	ND	NA	ND	ND	ND
Eulachon	C-Whole Body	7	0	0.88	0.19	0.87	0.65	1.20
Humpback Whitefish	Fillet	12	12	ND	NA	ND	ND	ND
Humpback Whitefish	Whole Body	2	2	ND	NA	ND	ND	ND
King Salmon	C-Fry	7	7	ND	NA	ND	ND	ND
King Salmon	C-Juvenile	3	3	ND	NA	ND	ND	ND
King Salmon	C-Muscle	1	0	0.22	NA	0.22	0.22	0.22
King Salmon	C-Whole Body	1	1	ND	NA	ND	ND	ND
King Salmon	Fillet	70	2	0.62	0.40	0.53	0.02	1.97
King Salmon	Whole Body	15	0	0.72	0.32	0.75	0.10	1.16
Lake Trout	Fillet	2	0	0.09	0.06	0.09	0.05	0.13

Table 3: Dieldrin in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Lake Trout	Whole Body	2	0	0.31	0.11	0.31	0.23	0.39
Least Cisco	Fillet	5	5	ND	NA	ND	ND	ND
Least Cisco	Liver	1	1	ND	NA	ND	ND	ND
Least Cisco	Whole Body	1	1	ND	NA	ND	ND	ND
Longnose Skate	Fillet	2	2	ND	NA	ND	ND	ND
Longnose Skate	Liver	2	0	2.50	0.08	2.50	2.44	2.56
Northern Pike	C-Muscle	6	6	ND	NA	ND	ND	ND
Northern Pike	Fillet	11	10	ND	NA	ND	ND	ND
Northern Pike	Whole Body	10	7	ND	NA	ND	ND	ND
Northernrock Sole	C-Muscle	1	0	0.04	NA	0.04	0.04	0.04
Pacific Cod	Fillet	5	2	0.05	0.02	0.05	0.02	0.07
Pacific Halibut	C-Muscle	23	2	0.10	0.07	0.08	0.04	0.23
Pacific Halibut	Fillet	88	9	0.24	0.25	0.16	0.02	1.27
Pacific Herring	C-Whole Body	11	0	0.69	0.28	0.69	0.19	1.25
Pacific Herring	Eggs	1	0	0.12	NA	0.12	0.12	0.12
Pacific Herring	Fillet	1	0	0.12	NA	0.12	0.12	0.12
Pink Salmon	Fillet	11	0	0.14	0.03	0.14	0.11	0.21
Sablefish	C-Muscle	4	2	ND	NA	ND	ND	ND
Sablefish	Fillet	23	0	0.76	0.53	0.81	0.07	1.92
Sablefish	Whole Body	3	0	1.84	0.30	1.84	1.55	2.14
Saffron Cod	Whole Body	9	9	ND	NA	ND	ND	ND
Salmon Shark	Fillet	8	0	1.01	0.27	0.95	0.64	1.37
Sand Lance	C-Whole Body	1	0	0.20	NA	0.20	0.20	0.20
Sheefish	Eggs	1	0	0.72	NA	0.72	0.72	0.72
Sheefish	Fillet	26	4	0.17	0.11	0.11	0.06	0.44
Sheefish	Whole Body	5	0	0.51	0.13	0.51	0.37	0.72
Shortraker	Fillet	5	2	0.09	0.05	0.07	0.05	0.14
Rockfish								
Sleeper Shark	Fillet	1	0	4.09	NA	4.09	4.09	4.09
Snow Crab	C-Muscle	1	0	0.10	NA	0.10	0.10	0.10
Sockeye Salmon	C-Fry	3	0	1.87	1.79	1.84	0.10	3.68
Sockeye Salmon	C-Muscle	1	0	0.10	NA	0.10	0.10	0.10
Sockeye Salmon	C-Whole Body	6	0	0.35	0.08	0.34	0.27	0.49
Sockeye Salmon	Eggs	2	0	0.61	0.52	0.61	0.25	0.98
Sockeye Salmon	Fillet	45	4	0.39	0.30	0.30	0.06	1.29
Sockeye Salmon	Whole Body	16	0	0.30	0.11	0.27	0.08	0.51
Spiny Dogfish	Fillet	5	0	1.36	0.39	1.19	1.04	2.03
Starry Flounder	C-Whole Body	3	3	ND	NA	ND	ND	ND
Walleye Pollock	Fillet	15	0	0.04	0.01	0.03	0.02	0.06

Table 3: Dieldrin in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Yellowfin Sole	C-Muscle	1	1	ND	NA	ND	ND	ND

Note:

n= sample size

ND = non-detect

Mean = arithmetic mean

SD = standard deviation

C = Composite of multiple individuals

Table 4: Lindane in Alaskan Fishes

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Alaska Plaice	C-Muscle	1	0	0.12	NA	0.12	0.12	0.12
Arctic Char	Fillet	1	0	0.13	NA	0.13	0.13	0.13
Arctic Grayling	Liver	4	4	ND	NA	ND	ND	ND
Arctic Grayling	Whole Body	4	4	ND	NA	ND	ND	ND
Bering Cisco	Fillet	5	1	0.39	0.28	0.35	0.09	0.76
Big Skate	Fillet	2	2	ND	NA	ND	ND	ND
Big Skate	Liver	2	0	0.65	0.09	0.65	0.58	0.71
Blue Mussel	C-Invert Whole	1	0	0.35	NA	0.35	0.35	0.35
Broad Whitefish	C-Muscle	3	1	0.09	0.01	0.09	0.08	0.10
Burbot	Fillet	3	2	ND	NA	ND	ND	ND
Burbot	Liver	3	2	ND	NA	ND	ND	ND
Capelin	C-Whole Body	1	0	0.21	NA	0.21	0.21	0.21
Chum Salmon	C-Muscle	1	0	0.30	NA	0.30	0.30	0.30
Chum Salmon	Fillet	23	14	ND	NA	ND	ND	ND
Coho Salmon	Belly	10	8	ND	NA	ND	ND	ND
Coho Salmon	C-Fry	7	2	0.27	0.14	0.27	0.09	0.42
Coho Salmon	C-Juvenile	1	1	ND	NA	ND	ND	ND
Coho Salmon	Eggs	19	4	0.50	0.92	0.29	0.12	3.83
Coho Salmon	Fillet	81	50	ND	NA	ND	ND	ND
Coho Salmon	Fry-Whole	1	1	ND	NA	ND	ND	ND
Coho Salmon	Juvenile-Whole	7	3	0.12	0.11	0.08	0.05	0.28
Coho Salmon	Testis	6	6	ND	NA	ND	ND	ND
Coho Salmon	Whole Body	54	9	0.23	0.07	0.22	0.12	0.39
Dolly Varden	C-Whole Body	3	0	0.31	0.19	0.40	0.09	0.44
Dolly Varden	Fillet	1	1	ND	NA	ND	ND	ND
Dungeness Crab Tissue	Invert-Muscle	2	0	0.26	0.21	0.26	0.11	0.41
Dusky Rockfish	Fillet	15	15	ND	NA	ND	ND	ND
Eulachon	C-Whole Body	7	2	0.26	0.15	0.18	0.16	0.52
Humpback Whitefish	Fillet	12	4	0.23	0.11	0.22	0.05	0.37
Humpback Whitefish	Whole Body	2	2	ND	NA	ND	ND	ND
King Salmon	C-Fry	7	5	ND	NA	ND	ND	ND
King Salmon	C-Juvenile	3	2	ND	NA	ND	ND	ND
King Salmon	C-Muscle	1	0	0.16	NA	0.16	0.16	0.16
King Salmon	C-Whole Body	1	0	0.17	NA	0.17	0.17	0.17
King Salmon	Fillet	70	16	0.31	0.19	0.23	0.09	0.91
King Salmon	Whole Body	15	4	0.55	0.23	0.52	0.21	1.02
Lake Trout	Fillet	2	2	ND	NA	ND	ND	ND

Table 4: Lindane in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Lake Trout	Whole Body	2	2	ND	NA	ND	ND	ND
Least Cisco	Fillet	5	0	0.37	0.30	0.38	0.12	0.87
Least Cisco	Liver	1	1	ND	NA	ND	ND	ND
Least Cisco	Whole Body	1	1	ND	NA	ND	ND	ND
Longnose Skate	Fillet	2	2	ND	NA	ND	ND	ND
Longnose Skate	Liver	2	0	0.95	0.42	0.95	0.65	1.25
Northern Pike	C-Muscle	6	0	0.62	0.39	0.42	0.31	1.17
Northern Pike	Fillet	11	9	ND	NA	ND	ND	ND
Northern Pike	Whole Body	10	8	ND	NA	ND	ND	ND
Northernrock Sole	C-Muscle	1	0	0.06	NA	0.06	0.06	0.06
Pacific Cod	Fillet	5	5	ND	NA	ND	ND	ND
Pacific Halibut	C-Muscle	23	3	0.28	0.14	0.27	0.15	0.70
Pacific Halibut	Fillet	88	41	0.27	0.22	0.22	0.03	0.95
Pacific Herring	C-Whole Body	11	1	0.21	0.06	0.24	0.12	0.30
Pacific Herring	Eggs	1	0	1.71	NA	1.71	1.71	1.71
Pacific Herring	Fillet	1	0	0.32	NA	0.32	0.32	0.32
Pink Salmon	Fillet	11	0	0.11	0.03	0.11	0.05	0.16
Sablefish	C-Muscle	4	1	0.23	0.20	0.11	0.11	0.46
Sablefish	Fillet	23	4	0.48	0.18	0.50	0.19	0.95
Sablefish	Whole Body	3	0	0.63	0.07	0.62	0.56	0.71
Saffron Cod	Whole Body	9	0	0.23	0.20	0.19	0.08	0.75
Salmon Shark	Fillet	8	2	0.22	0.07	0.20	0.15	0.35
Sand Lance	C-Whole Body	1	1	ND	NA	ND	ND	ND
Sheefish	Eggs	1	1	ND	NA	ND	ND	ND
Sheefish	Fillet	26	21	ND	NA	ND	ND	ND
Sheefish	Whole Body	5	4	ND	NA	ND	ND	ND
Shortraker	Fillet	5	2	0.16	0.05	0.17	0.10	0.20
Rockfish								
Sleeper Shark	Fillet	1	0	0.66	NA	0.66	0.66	0.66
Snow Crab	C-Muscle	1	0	0.37	NA	0.37	0.37	0.37
Sockeye Salmon	C-Fry	3	1	0.68	0.77	0.68	0.14	1.23
Sockeye Salmon	C-Muscle	1	0	0.14	NA	0.14	0.14	0.14
Sockeye Salmon	C-Whole Body	6	0	0.38	0.34	0.27	0.12	1.02
Sockeye Salmon	Eggs	2	0	0.29	0.06	0.29	0.24	0.34
Sockeye Salmon	Fillet	45	28	ND	NA	ND	ND	ND
Sockeye Salmon	Whole Body	16	5	0.22	0.06	0.20	0.14	0.29
Spiny Dogfish	Fillet	5	1	0.35	0.12	0.39	0.17	0.44
Starry Flounder	C-Whole Body	3	0	0.21	0.15	0.15	0.10	0.38
Walleye Pollock	Fillet	15	11	ND	NA	ND	ND	ND

Table 4: Lindane in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Yellowfin Sole	C-Muscle	1	0	0.08	NA	0.08	0.08	0.08

Note:

n= sample size

ND = non-detect

Mean = arithmetic mean

SD = standard deviation

C = Composite of multiple individuals

Table 5: Hexachlorobenzene in Alaskan Fishes

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Alaska Plaice	C-Muscle	1	0	0.24	NA	0.24	0.24	0.24
Arctic Char	Fillet	1	0	0.31	NA	0.31	0.31	0.31
Arctic Grayling	Liver	4	0	0.28	0.08	0.27	0.19	0.39
Arctic Grayling	Whole Body	4	0	0.48	0.30	0.40	0.21	0.89
Bering Cisco	Fillet	5	0	1.36	1.11	1.12	0.52	3.27
Big Skate	Fillet	2	0	0.09	0.01	0.09	0.08	0.09
Big Skate	Liver	2	0	7.99	1.16	7.99	7.17	8.81
Blue Mussel	C-Invert Whole	1	0	0.16	NA	0.16	0.16	0.16
Broad Whitefish	C-Muscle	3	0	1.15	0.47	1.39	0.61	1.45
Burbot	Fillet	3	0	0.20	0.24	0.07	0.06	0.48
Burbot	Liver	3	0	2.78	2.03	3.73	0.45	4.17
Capelin	C-Whole Body	1	0	0.79	NA	0.79	0.79	0.79
Chum Salmon	C-Muscle	1	0	0.37	NA	0.37	0.37	0.37
Chum Salmon	Fillet	23	0	0.91	0.38	0.93	0.24	1.82
Coho Salmon	Belly	10	0	2.11	0.97	1.67	0.81	3.59
Coho Salmon	C-Fry	7	0	0.45	0.11	0.39	0.31	0.63
Coho Salmon	C-Juvenile	1	0	0.50	NA	0.50	0.50	0.50
Coho Salmon	Eggs	19	0	1.91	0.32	1.86	1.51	2.62
Coho Salmon	Fillet	81	0	0.54	0.20	0.50	0.20	1.11
Coho Salmon	Fry-Whole	1	0	0.81	NA	0.81	0.81	0.81
Coho Salmon	Juvenile-Whole	7	0	0.45	0.11	0.50	0.26	0.58
Coho Salmon	Testis	6	0	0.23	0.07	0.23	0.16	0.31
Coho Salmon	Whole Body	54	0	1.42	0.23	1.43	0.84	1.91
Dolly Varden	C-Whole Body	3	0	0.91	0.38	0.82	0.58	1.33
Dolly Varden	Fillet	1	0	2.26	NA	2.26	2.26	2.26
Dungeness Crab Tissue	Invert-Muscle	2	0	0.11	0.04	0.11	0.09	0.14
Dusky Rockfish	Fillet	15	0	0.16	0.05	0.16	0.09	0.24
Eulachon	C-Whole Body	7	0	2.73	0.15	2.75	2.49	3.00
Humpback Whitefish	Fillet	12	0	0.31	0.20	0.26	0.18	0.94
Humpback Whitefish	Whole Body	2	0	0.86	0.42	0.86	0.56	1.15
King Salmon	C-Fry	7	0	0.27	0.05	0.26	0.21	0.38
King Salmon	C-Juvenile	3	0	0.44	0.03	0.42	0.41	0.48
King Salmon	C-Muscle	1	0	1.40	NA	1.40	1.40	1.40
King Salmon	C-Whole Body	1	0	0.24	NA	0.24	0.24	0.24
King Salmon	Fillet	70	0	2.25	0.96	2.10	0.52	5.19
King Salmon	Whole Body	15	0	3.68	0.92	3.94	1.78	4.96
Lake Trout	Fillet	2	0	0.84	0.87	0.84	0.22	1.46

Table 5: Hexachlorobenzene in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Lake Trout	Whole Body	2	0	2.99	2.73	2.99	1.06	4.92
Least Cisco	Fillet	5	0	0.45	0.17	0.50	0.23	0.67
Least Cisco	Liver	1	0	0.18	NA	0.18	0.18	0.18
Least Cisco	Whole Body	1	0	0.36	NA	0.36	0.36	0.36
Longnose Skate	Fillet	2	0	0.08	0.01	0.08	0.07	0.09
Longnose Skate	Liver	2	0	12.65	2.05	12.65	11.20	14.10
Northern Pike	C-Muscle	6	2	0.14	0.07	0.17	0.05	0.20
Northern Pike	Fillet	11	1	0.12	0.04	0.10	0.08	0.21
Northern Pike	Whole Body	10	0	0.61	0.19	0.60	0.33	1.01
Northernrock Sole	C-Muscle	1	0	0.25	NA	0.25	0.25	0.25
Pacific Cod	Fillet	5	0	0.17	0.02	0.16	0.16	0.20
Pacific Halibut	C-Muscle	23	0	0.40	0.22	0.35	0.10	0.84
Pacific Halibut	Fillet	88	0	0.65	0.68	0.41	0.08	3.65
Pacific Herring	C-Whole Body	11	0	2.15	0.72	2.42	0.66	3.04
Pacific Herring	Eggs	1	0	1.87	NA	1.87	1.87	1.87
Pacific Herring	Fillet	1	0	0.74	NA	0.74	0.74	0.74
Pink Salmon	Fillet	11	0	0.38	0.08	0.37	0.23	0.52
Sablefish	C-Muscle	4	0	1.26	1.74	0.49	0.21	3.85
Sablefish	Fillet	23	0	2.35	1.73	2.85	0.21	4.98
Sablefish	Whole Body	3	0	5.09	0.68	5.28	4.34	5.65
Saffron Cod	Whole Body	9	0	0.53	0.12	0.51	0.37	0.71
Salmon Shark	Fillet	8	0	3.59	1.47	3.12	2.14	6.44
Sand Lance	C-Whole Body	1	0	0.75	NA	0.75	0.75	0.75
Sheefish	Eggs	1	0	5.83	NA	5.83	5.83	5.83
Sheefish	Fillet	26	0	1.13	0.77	0.87	0.11	2.88
Sheefish	Whole Body	5	0	3.76	0.87	4.03	2.33	4.63
Shortraker	Fillet	5	0	0.17	0.09	0.12	0.12	0.32
Rockfish								
Sleeper Shark	Fillet	1	0	9.90	NA	9.90	9.90	9.90
Snow Crab	C-Muscle	1	0	0.22	NA	0.22	0.22	0.22
Sockeye Salmon	C-Fry	3	0	0.33	0.18	0.38	0.13	0.49
Sockeye Salmon	C-Muscle	1	0	0.41	NA	0.41	0.41	0.41
Sockeye Salmon	C-Whole Body	6	0	1.45	0.34	1.35	1.11	1.95
Sockeye Salmon	Eggs	2	0	3.08	0.78	3.08	2.52	3.63
Sockeye Salmon	Fillet	45	0	1.13	0.83	0.90	0.14	3.71
Sockeye Salmon	Whole Body	16	0	1.39	0.47	1.35	0.46	2.14
Spiny Dogfish	Fillet	5	0	3.82	0.98	3.41	2.88	5.42
Starry Flounder	C-Whole Body	3	0	0.31	0.07	0.31	0.24	0.38
Walleye Pollock	Fillet	15	0	0.17	0.06	0.16	0.09	0.26

Table 5: Hexachlorobenzene in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Yellowfin Sole	C-Muscle	1	0	0.26	NA	0.26	0.26	0.26

Note:

n= sample size

ND = non-detect

Mean = arithmetic mean

SD = standard deviation

C = Composite of multiple individuals

Table 6: Total Toxaphene in Alaskan Fishes

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Arctic Char	Fillet	1	1	ND	NA	ND	ND	ND
Capelin	C-Whole Body	1	1	ND	NA	ND	ND	ND
Chum Salmon	Fillet	23	18	ND	NA	ND	ND	ND
Coho Salmon	Belly	10	2	13.08	7.25	11.65	3.85	26.3
Coho Salmon	C-Fry	7	6	ND	NA	ND	ND	ND
Coho Salmon	C-Juvenile	1	1	ND	NA	ND	ND	ND
Coho Salmon	Eggs	19	9	14.16	6.18	12.55	7.65	27.7
Coho Salmon	Fillet	81	73	ND	NA	ND	ND	ND
Coho Salmon	Fry-Whole	1	1	ND	NA	ND	ND	ND
Coho Salmon	Juvenile-Whole	7	7	ND	NA	ND	ND	ND
Coho Salmon	Testis	6	6	ND	NA	ND	ND	ND
Coho Salmon	Whole Body	54	24	19.64	40.29	12.60	4.18	232.0
Dungeness Crab Tissue	Invert-Muscle	2	2	ND	NA	ND	ND	ND
Dusky Rockfish	Fillet	15	15	ND	NA	ND	ND	ND
Eulachon	C-Whole Body	7	1	127.33	91.15	93.80	42.20	285.0
King Salmon	C-Fry	7	7	ND	NA	ND	ND	ND
King Salmon	C-Juvenile	3	3	ND	NA	ND	ND	ND
King Salmon	Fillet	70	10	29.22	19.47	23.90	5.65	120.0
King Salmon	Whole Body	15	2	42.80	13.99	43.90	16.80	66.4
Lake Trout	Fillet	1	1	ND	NA	ND	ND	ND
Lake Trout	Whole Body	1	1	ND	NA	ND	ND	ND
Northern Pike	Fillet	7	7	ND	NA	ND	ND	ND
Northern Pike	Whole Body	6	6	ND	NA	ND	ND	ND
Pacific Cod	Fillet	5	5	ND	NA	ND	ND	ND
Pacific Halibut	Fillet	70	37	ND	NA	ND	ND	ND
Pacific Herring	C-Whole Body	11	1	12.85	4.20	11.55	9.30	22.7
Pink Salmon	Fillet	11	10	ND	NA	ND	ND	ND
Sablefish	Fillet	20	12	ND	NA	ND	ND	ND
Sablefish	Whole Body	3	0	84.33	28.86	88.30	53.70	111.0
Salmon Shark	Fillet	8	0	108.09	76.29	90.30	28.00	247.0
Sand Lance	C-Whole Body	1	1	ND	NA	ND	ND	ND
Sheefish	Fillet	8	8	ND	NA	ND	ND	ND
Shortraker Rockfish	Fillet	5	3	ND	NA	ND	ND	ND
Sockeye Salmon	C-Fry	3	3	ND	NA	ND	ND	ND
Sockeye Salmon	Eggs	2	0	18.77	14.89	18.77	8.24	29.3
Sockeye Salmon	Fillet	41	18	17.61	10.49	14.80	3.22	39.1
Sockeye Salmon	Whole Body	16	2	17.44	6.87	16.45	7.01	30.0

Table 6: Total Toxaphene in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Spiny Dogfish	Fillet	5	1	60.90	13.42	65.15	41.60	71.7
Walleye Pollock	Fillet	15	14	ND	NA	ND	ND	ND

Note:

n= sample size

ND = non-detect

Mean = arithmetic mean

SD = standard deviation

C = Composite of multiple individuals

Table 7: Mirex in Alaskan Fishes

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Alaska Plaice	C-Muscle	1	0	0.02	NA	0.02	0.02	0.02
Arctic Char	Fillet	1	0	0.12	NA	0.12	0.12	0.12
Arctic Grayling	Liver	4	3	ND	NA	ND	ND	ND
Arctic Grayling	Whole Body	4	3	ND	NA	ND	ND	ND
Bering Cisco	Fillet	5	4	ND	NA	ND	ND	ND
Big Skate	Fillet	2	2	ND	NA	ND	ND	ND
Big Skate	Liver	2	0	0.51	0.30	0.51	0.30	0.72
Blue Mussel	C-Invert Whole	1	1	ND	NA	ND	ND	ND
Broad Whitefish	C-Muscle	3	1	0.03	0.00	0.03	0.02	0.03
Burbot	Fillet	3	2	ND	NA	ND	ND	ND
Burbot	Liver	3	1	0.38	0.14	0.38	0.28	0.48
Capelin	C-Whole Body	1	1	ND	NA	ND	ND	ND
Chum Salmon	C-Muscle	1	1	ND	NA	ND	ND	ND
Chum Salmon	Fillet	6	6	ND	NA	ND	ND	ND
Coho Salmon	Belly	10	0	0.07	0.03	0.07	0.04	0.12
Coho Salmon	C-Fry	7	7	ND	NA	ND	ND	ND
Coho Salmon	C-Juvenile	1	1	ND	NA	ND	ND	ND
Coho Salmon	Eggs	19	4	0.04	0.01	0.04	0.03	0.07
Coho Salmon	Fillet	68	55	ND	NA	ND	ND	ND
Coho Salmon	Fry-Whole	1	1	ND	NA	ND	ND	ND
Coho Salmon	Juvenile-Whole	7	7	ND	NA	ND	ND	ND
Coho Salmon	Testis	6	4	ND	NA	ND	ND	ND
Coho Salmon	Whole Body	54	25	0.05	0.01	0.05	0.02	0.07
Dolly Varden	C-Whole Body	3	3	ND	NA	ND	ND	ND
Dolly Varden	Fillet	1	0	0.15	NA	0.15	0.15	0.15
Dungeness Crab Tissue	Invert-Muscle	2	2	ND	NA	ND	ND	ND
Dusky Rockfish	Fillet	15	15	ND	NA	ND	ND	ND
Eulachon	C-Whole Body	7	7	ND	NA	ND	ND	ND
Humpback Whitefish	Fillet	12	11	ND	NA	ND	ND	ND
Humpback Whitefish	Whole Body	2	0	0.12	0.02	0.12	0.11	0.14
King Salmon	C-Fry	7	4	ND	NA	ND	ND	ND
King Salmon	C-Juvenile	3	3	ND	NA	ND	ND	ND
King Salmon	C-Muscle	1	0	0.06	NA	0.06	0.06	0.06
King Salmon	C-Whole Body	1	1	ND	NA	ND	ND	ND
King Salmon	Fillet	38	6	0.12	0.04	0.12	0.05	0.22
King Salmon	Whole Body	15	0	0.13	0.06	0.11	0.06	0.25
Lake Trout	Fillet	2	0	0.41	0.19	0.41	0.28	0.55

Table 7: Mirex in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max
Lake Trout	Whole Body	2	0	1.32	0.52	1.32	0.95	1.69
Least Cisco	Fillet	5	5	ND	NA	ND	ND	ND
Least Cisco	Liver	1	1	ND	NA	ND	ND	ND
Least Cisco	Whole Body	1	0	0.02	NA	0.02	0.02	0.02
Longnose Skate	Fillet	2	1	ND	NA	ND	ND	ND
Longnose Skate	Liver	2	0	1.85	1.37	1.85	0.88	2.82
Northern Pike	C-Muscle	6	6	ND	NA	ND	ND	ND
Northern Pike	Fillet	11	2	0.10	0.03	0.10	0.06	0.15
Northern Pike	Whole Body	10	0	0.14	0.09	0.11	0.06	0.35
Northernrock Sole	C-Muscle	1	0	0.02	NA	0.02	0.02	0.02
Pacific Cod	Fillet	5	5	ND	NA	ND	ND	ND
Pacific Halibut	C-Muscle	23	12	ND	NA	ND	ND	ND
Pacific Halibut	Fillet	66	22	0.12	0.09	0.09	0.03	0.41
Pacific Herring	C-Whole Body	11	11	ND	NA	ND	ND	ND
Pacific Herring	Eggs	1	1	ND	NA	ND	ND	ND
Pacific Herring	Fillet	1	1	ND	NA	ND	ND	ND
Sablefish	C-Muscle	4	2	ND	NA	ND	ND	ND
Sablefish	Fillet	12	0	0.35	0.34	0.22	0.06	1.15
Sablefish	Whole Body	3	0	0.32	0.16	0.35	0.14	0.47
Saffron Cod	Whole Body	9	8	ND	NA	ND	ND	ND
Salmon Shark	Fillet	8	0	1.18	0.87	0.95	0.51	3.19
Sand Lance	C-Whole Body	1	1	ND	NA	ND	ND	ND
Sheefish	Eggs	1	0	0.11	NA	0.11	0.11	0.11
Sheefish	Fillet	18	5	0.10	0.05	0.10	0.04	0.17
Sheefish	Whole Body	5	0	0.22	0.11	0.25	0.06	0.36
Shortraker	Fillet	5	0	0.06	0.03	0.04	0.03	0.09
Rockfish								
Sleeper Shark	Fillet	1	0	0.70	NA	0.70	0.70	0.70
Snow Crab	C-Muscle	1	1	ND	NA	ND	ND	ND
Sockeye Salmon	C-Fry	3	1	0.04	0.00	0.04	0.04	0.04
Sockeye Salmon	C-Muscle	1	0	0.04	NA	0.04	0.04	0.04
Sockeye Salmon	C-Whole Body	6	0	0.07	0.02	0.07	0.06	0.10
Sockeye Salmon	Eggs	2	1	ND	NA	ND	ND	ND
Sockeye Salmon	Fillet	23	12	ND	NA	ND	ND	ND
Sockeye Salmon	Whole Body	16	1	0.08	0.03	0.07	0.03	0.14
Spiny Dogfish	Fillet	5	0	0.13	0.03	0.13	0.07	0.16
Starry Flounder	C-Whole Body	3	3	ND	NA	ND	ND	ND
Walleye Pollock	Fillet	4	4	ND	NA	ND	ND	ND
Yellowfin Sole	C-Muscle	1	0	0.05	NA	0.05	0.05	0.05

Table 7: Mirex in Alaskan Fishes (*continued*)

Species	Tissue	n	ND	$\mu\text{g}/\text{Kg}$ wet weight				
				Mean	SD	Median	Min	Max

Note:

n= sample size

ND = non-detect

Mean = arithmetic mean

SD = standard deviation

C = Composite of multiple individuals