



Alaska Department of Environmental Conservation

Office of the State Veterinarian

Fish Monitoring Program

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Body Weight and Percent Lipids in Alaska's Fish

Fish Samples collected: 2001-2018

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: Body Weight (lbs) of Alaskan Fishes

Species	n	Mean	SD	Median	Min	Max
Alaska Blackfish	5	0.05	0.05	0.03	0.01	0.12
Alaska Plaice	31	1.66	0.25	1.60	1.30	2.29
Amphipod	1	0.00	NA	0.00	0.00	0.00
Arctic Char	63	0.39	0.64	0.23	0.06	4.67
Arctic Cisco	21	0.82	0.18	0.79	0.51	1.37
Arctic Flounder	2	0.05	0.02	0.05	0.04	0.07
Arctic Grayling	135	0.59	0.41	0.50	0.00	1.94
Atka Mackerel	5	2.07	0.61	1.85	1.50	3.09
Bering Cisco	5	1.33	1.21	1.01	0.35	3.30
Big Skate	132	35.24	21.55	30.67	4.85	118.72
Black Rockfish	49	5.51	1.60	5.51	2.65	8.38
Blue Mussel	21	0.03	0.08	0.00	0.00	0.34
Blue Shark	1	44.09	NA	44.09	44.09	44.09
Broad Whitefish	44	5.27	1.15	5.15	3.31	7.61
Burbot	23	3.81	2.61	3.00	0.26	12.32
Butter Clam	3	0.83	0.46	0.61	0.52	1.36
Butter Sole	1	2.43	NA	2.43	2.43	2.43
Capelin	1	0.03	NA	0.03	0.03	0.03
Chum Salmon	277	7.08	1.82	6.83	0.01	13.89
Cockle	10	0.59	0.38	0.54	0.01	1.43
Coho Salmon	466	6.97	3.61	7.28	0.00	16.20
Coonstriped Shrimp	2	0.28	0.04	0.28	0.25	0.31
Copper Rockfish	2	3.20	1.40	3.20	2.20	4.19
Cutthroat Trout	7	0.07	0.01	0.08	0.05	0.09
Dolly Varden	107	0.60	0.54	0.55	0.03	2.80
Dungeness Crab	1	1.42	NA	1.42	1.42	1.42
Dungeness Crab Tissue	2	1.84	0.05	1.84	1.81	1.87
Dusky Rockfish	66	2.38	0.99	2.18	0.31	4.74
Eulachon	7	0.14	0.02	0.14	0.11	0.15
Flathead Sole	15	1.16	0.24	1.25	0.78	1.47
Great Sculpin	2	2.77	1.17	2.77	1.94	3.59
Horse Clam	1	1.86	NA	1.86	1.86	1.86
Humpback Whitefish	122	2.09	1.10	2.01	0.50	5.89
Kelp Greenling	15	1.68	0.64	1.63	0.24	2.82
King Salmon	220	11.74	6.42	11.52	0.00	32.14
Lake Trout	88	3.13	2.55	2.55	0.85	15.43
Lamprey	10	0.23	0.06	0.23	0.15	0.34
Least Cisco	50	0.71	0.25	0.65	0.22	1.48
Lingcod	145	28.18	12.22	27.56	2.65	59.52

Table 1: Body Weight (lbs) of Alaskan Fishes (*continued*)

Species	n	Mean	SD	Median	Min	Max
Little Neck Clam	1	0.38	NA	0.38	0.38	0.38
Longnose Skate	134	23.04	5.86	23.17	6.61	38.80
Macoma Clam	1	0.01	NA	0.01	0.01	0.01
Northern Pike	619	3.71	2.61	3.13	0.18	17.99
Northernrock Sole	39	1.19	0.61	0.99	0.49	3.20
NS Stickleback	12	0.01	0.00	0.00	0.00	0.01
Pacific Cod	132	6.14	4.39	5.07	1.01	23.22
Pacific Halibut	2999	41.12	31.09	33.51	3.53	337.09
Pacific Herring	12	0.35	0.34	0.27	0.13	1.38
Pacific Ocean Pearch	79	1.41	0.42	1.49	0.44	2.47
Pile Worm	2	0.00	0.00	0.00	0.00	0.00
Pink Salmon	179	3.73	1.24	3.75	0.55	7.08
Pygmy Whitefish	1	0.09	NA	0.09	0.09	0.09
Quillback Rockfish	17	2.85	0.77	2.65	1.54	4.63
Rainbow Smelt	15	0.09	0.05	0.10	0.00	0.19
Rainbow Trout	124	0.79	0.68	0.53	0.08	3.26
Red Irish Lord	12	1.33	0.42	1.28	0.86	2.29
Ribbon Worm	2	0.00	0.00	0.00	0.00	0.00
Rock Greenling	16	1.52	0.49	1.54	0.84	2.98
Rougeye Rockfish	57	1.62	1.20	0.99	0.09	4.63
Round Whitefish	14	0.69	0.45	0.52	0.16	1.76
Sablefish	307	4.47	2.77	4.39	0.42	16.71
Saffron Cod	10	0.14	0.04	0.13	0.08	0.20
Salmon Shark	86	362.99	40.97	363.10	263.89	473.33
Sand Lance	2	0.03	0.02	0.03	0.02	0.05
Sheefish	78	13.02	3.80	13.23	4.04	20.00
Silvergray Rockfish	6	3.97	2.44	2.87	1.54	7.05
Sleeper Shark	1	595.25	NA	595.25	595.25	595.25
Slimy Sculpin	19	0.02	0.02	0.01	0.00	0.08
Sockeye Salmon	342	5.00	1.76	4.81	0.00	9.83
Softshell Clam	6	0.05	0.03	0.05	0.02	0.09
Southernrock Sole	1	0.29	NA	0.29	0.29	0.29
Spiny Dogfish	7	6.05	1.77	5.73	4.19	8.38
Starry Flounder	1	0.82	NA	0.82	0.82	0.82
Tiger Rockfish	1	3.75	NA	3.75	3.75	3.75
TS Stickleback	19	0.01	0.04	0.00	0.00	0.17
Walleye Pollock	185	2.23	1.26	1.76	0.42	7.28
Yellow Irish Lord	10	1.88	0.64	1.63	1.19	3.31
Yelloweye Rockfish	68	9.71	4.23	9.26	1.54	20.50

Table 1: Body Weight (lbs) of Alaskan Fishes (*continued*)

Species	n	Mean	SD	Median	Min	Max
Yellowfin Sole	33	1.41	0.29	1.36	0.95	2.09
Yellowtail Rockfish	5	3.66	1.37	4.19	1.98	5.07

Note:

Units = Pounds (lbs)

n= sample size

Mean = arithmetic mean

SD = standard deviation

Table 2: Percent of Total Lipids in Alaskan Fishes

Species	Tissue	n	Mean	SD	Median	Min	Max
Alaska Plaice	C-Fillet	1	1.16	NA	1.16	1.16	1.16
Arctic Char	Fillet	1	0.49	NA	0.49	0.49	0.49
Arctic Grayling	Whole Body	4	3.96	1.25	3.51	3.04	5.78
Arctic Grayling	Liver	4	3.85	0.23	3.88	3.54	4.08
Bering Cisco	Fillet	5	19.71	15.75	19.20	4.66	43.50
Big Skate	Fillet	2	0.96	0.10	0.96	0.89	1.03
Big Skate	Liver	2	36.75	1.34	36.75	35.80	37.70
Broad Whitefish	C-Fillet	3	3.49	0.49	3.75	2.93	3.80
Capelin	C-Whole Body	1	7.48	NA	7.48	7.48	7.48
Chum Salmon	Fillet	48	3.06	1.85	2.25	1.13	8.90
Chum Salmon	Whole Body	2	3.77	2.21	3.77	2.21	5.34
Coho Salmon	Fillet	113	2.54	1.26	2.38	0.59	6.86
Coho Salmon	Belly	10	6.47	3.33	5.08	2.09	11.30
Coho Salmon	Whole Body	58	6.64	1.65	6.87	2.79	9.88
Coho Salmon	Eggs	19	10.06	0.65	10.00	9.01	11.90
Coho Salmon	Testis	6	1.52	0.57	1.48	0.88	2.43
Coho Salmon	Fry Whole	1	6.40	NA	6.40	6.40	6.40
Coho Salmon	C-Fry	7	3.72	1.33	2.91	2.42	5.75
Coho Salmon	Juvenile Whole	7	2.25	0.48	2.46	1.57	2.82
Dolly Varden	Fillet	1	2.39	NA	2.39	2.39	2.39
Dolly Varden	C-Whole Body	3	5.83	2.99	6.14	2.70	8.65
Dungeness Crab Tissue	Invert Muscle	2	0.81	0.21	0.81	0.66	0.96
Dusky Rockfish	Fillet	15	1.04	0.59	1.15	0.29	2.29
Eulachon	C-Whole Body	7	9.53	2.38	9.41	6.62	14.00
Humpback Whitefish	Fillet	12	4.09	1.27	3.92	1.88	5.82
Humpback Whitefish	Whole Body	2	6.01	1.92	6.01	4.65	7.36
King Salmon	Fillet	74	7.98	5.99	7.26	0.36	23.60
King Salmon	Whole Body	15	12.39	7.57	15.10	0.75	21.50
King Salmon	C-Fry	7	3.17	1.12	2.82	2.17	5.53
King Salmon	C-Juvenile	3	1.97	0.26	2.09	1.68	2.15
Lake Trout	Fillet	11	2.43	1.34	2.15	0.85	5.06
Lake Trout	Whole Body	2	3.26	0.04	3.26	3.23	3.29
Least Cisco	Fillet	5	4.78	2.36	3.89	2.61	8.75
Least Cisco	Whole Body	1	5.23	NA	5.23	5.23	5.23
Least Cisco	Liver	1	3.66	NA	3.66	3.66	3.66
Longnose Skate	Fillet	2	1.03	0.13	1.03	0.94	1.12
Longnose Skate	Liver	2	50.55	15.77	50.55	39.40	61.70
Northern Pike	Fillet	11	0.55	0.14	0.55	0.37	0.91
Northern Pike	Whole Body	10	4.63	5.01	3.25	1.60	18.70

Table 2: Percent of Total Lipids in Alaskan Fishes (*continued*)

Species	Tissue	n	Mean	SD	Median	Min	Max
Northernrock Sole	C-Fillet	1	0.96	NA	0.96	0.96	0.96
Pacific Cod	Fillet	25	0.49	0.10	0.49	0.23	0.64
Pacific Halibut	Fillet	98	2.22	2.09	1.54	0.02	11.60
Pacific Halibut	C-Fillet	20	1.43	0.91	1.14	0.50	3.54
Pacific Herring	C-Whole Body	11	6.83	2.93	7.04	2.68	10.30
Pink Salmon	Fillet	33	2.77	1.00	2.71	1.13	4.72
Rainbow Trout	Fillet	4	3.21	0.56	3.06	2.77	3.96
Sablefish	Fillet	35	12.25	6.77	15.00	0.79	21.60
Sablefish	C-Fillet	3	2.29	0.99	2.24	1.33	3.30
Sablefish	Whole Body	3	21.63	3.11	20.20	19.50	25.20
Saffron Cod	Whole Body	9	2.14	1.03	1.90	0.99	3.53
Salmon Shark	Fillet	8	9.02	2.56	8.62	6.54	14.60
Sand Lance	C-Whole Body	1	3.88	NA	3.88	3.88	3.88
Sheefish	Fillet	26	2.48	1.58	1.91	0.22	6.37
Sheefish	Whole Body	5	5.37	1.24	5.44	3.79	6.79
Sheefish	Eggs	1	9.85	NA	9.85	9.85	9.85
Shortraker Rockfish	Fillet	5	0.89	0.44	0.71	0.61	1.66
Sleeper Shark	Fillet	1	21.70	NA	21.70	21.70	21.70
Sockeye Salmon	Fillet	69	5.14	3.63	4.14	0.59	16.10
Sockeye Salmon	Whole Body	20	6.22	3.20	6.08	0.68	15.20
Sockeye Salmon	Eggs	2	12.85	1.34	12.85	11.90	13.80
Sockeye Salmon	C-Fry	3	3.91	0.62	3.93	3.28	4.51
Sockeye Salmon	C-Whole Body	7	6.21	1.31	6.60	3.97	7.78
Spiny Dogfish	Fillet	5	19.44	2.41	19.10	16.40	23.00
Starry Flounder	C-Whole Body	3	4.56	1.23	5.17	3.15	5.37
Walleye Pollock	Fillet	15	0.78	0.16	0.74	0.60	1.12
Yellowfin Sole	C-Fillet	1	1.09	NA	1.09	1.09	1.09

Note:

n= sample size

Mean = arithmetic mean

SD = standard deviation

C = Composite of multiple individuals