

Supplementary Table 1. Sampling data and percent frequency occurrence (FO) of prey of Steller sea lions (*Eumetopias jubatus*) (SSL) and California sea lions (*Zalophus californianus*) (CSL) in aggregate for the collections conducted from 2010 through 2013 in northwest Washington and summarized by season.

	Total	Species		Steller sea lion				California sea lion		
		SSL	CSL	Spr.	Sum.	Fall	Win.	Spr.	Sum.	Fall
Sample type				Number						
Scat samples	1038	776	263	197	247	196	136	47	50	166
Samples containing identifiable prey	986	734	251	185	231	186	132	46	47	159
Samples containing no identifiable prey	44	37	9	11	14	9	3	1	3	5
Empty samples	8	5	3	1	2	1	1	0	0	3
Prey taxa identified in scat samples	54	54	39	38	36	49	37	25	24	35
Prey group				FO (%)						
Herrings, shads, sardines: family Clupeidae	59.9	53.8	77.8	43.2	67.1	58.1	39.4	67.4	57.4	86.8
Clupeids, unidentified	29.3	29.6	28.6	29.2	30.7	32.8	23.5	34.8	27.7	27
Pacific herring ( <i>Clupea pallasii</i> )	16.9	11.7	32.1	8.6	7.8	17.7	14.4	26.1	25.5	35.8
Pacific sardine ( <i>Sardinops sagax</i> )	12.6	12	14.3	0	30.7	8.6	0.8	0	0	22.6
American shad ( <i>Alosa sapidissima</i> )	7.1	4	16.3	6.5	0.4	5.4	4.5	15.2	6.4	19.5
Salmon: family Salmonidae	33.5	32.8	35.3	41.6	15.2	34.9	48.5	32.6	38.3	35.2
Salmon and trout, unidentified	33.5	32.8	35.3	41.6	15.2	34.9	48.5	32.6	38.3	35.2
Rockfishes: family Sebastidae	32.7	35.8	23.4	50.8	16.5	28	59.8	56.5	51.1	5.7
Rockfish ( <i>Sebastes</i> spp.)	32.7	35.8	23.4	50.8	16.5	28	59.8	56.5	51.1	5.7
Skates: family Rajidae	28.4	36	6.3	45.9	21.2	34.9	49.2	13	10.6	3.1
Skates, unidentified	28.4	36	6.3	45.9	21.2	34.9	49.2	13	10.6	3.1

Prey group	Total	FO (%)								
		Species		Steller sea lion				California sea lion		
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Dogfish sharks: family Squalidae	24.4	25.2	22.2	29.2	15.2	32.3	27.3	34.8	31.9	15.7
Pacific spiny dogfish ( <i>Squalus suckleyi</i> )	24.4	25.2	22.2	29.2	15.2	32.3	27.3	34.8	31.9	15.7
Flatfishes: order Pleuronectiformes	20.8	24	11.5	22.7	31.6	29	5.3	10.9	17	10.1
Starry flounder ( <i>Platichthys stellatus</i> )	7.9	10.2	1.2	10.3	14.7	11.3	0.8	0	2.1	1.3
Righteye flounders, family Pleuronectidae	5.1	5.7	3.2	5.4	5.6	9.1	1.5	2.2	2.1	3.8
Arrowtooth flounder ( <i>Atheresthes stomias</i> )	3.8	3.4	4.8	3.2	7.4	1.1	0	0	12.8	3.8
Butter Sole ( <i>Isopsetta isolepis</i> )	1.8	2.5	0	2.2	3.9	2.7	0	0	0	0
Flatfishes, unidentified	1.8	2.2	0.8	2.2	1.7	3.2	1.5	2.2	0	0.6
Dover sole ( <i>Microstomus pacificus</i> )	1.5	1.2	2.4	2.2	0.9	0.5	1.5	4.3	2.1	1.9
Rex Sole ( <i>Glyptocephalus zachirus</i> )	1.4	1.8	0.4	0	2.6	3.2	0.8	2.2	0	0
Sanddabs ( <i>Citharichthys</i> spp.)	1.1	1.1	1.2	1.1	0.4	2.7	0	4.3	0	0.6
English sole ( <i>Parophrys vetulus</i> )	0.5	0.7	0	1.1	0	1.1	0.8	0	0	0
Sand sole ( <i>Psettichthys melanostictus</i> )	0.3	0.4	0	1.6	0	0	0	0	0	0
Slender sole ( <i>Lyopsetta exilis</i> )	0.2	0.3	0	0	0.9	0	0	0	0	0
Turbot ( <i>Pleuronichthys</i> spp.)	0.1	0.1	0	0	0	0.5	0	0	0	0

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Hakes: family Merlucciidae	19	15	30.6	2.7	26	23.7	0.8	32.6	17	34
Pacific hake ( <i>Merluccius productus</i> )	19	15	30.6	2.7	26	23.7	0.8	32.6	17	34
Class Osteichthyes	9.5	11.3	4.4	9.2	13.4	12.9	8.3	2.2	8.5	3.8
Teleost fishes, unidentified	9.5	11.3	4.4	9.2	13.4	12.9	8.3	2.2	8.5	3.8
Anchovies: family Engraulidae	8.9	7.2	13.9	7	6.5	10.2	4.5	15.2	8.5	15.1
Northern anchovy ( <i>Engraulis mordax</i> )	8.9	7.2	13.9	7	6.5	10.2	4.5	15.2	8.5	15.1
Cods: family Gadidae	12.6	14.7	6.3	27	4.8	12.4	18.2	4.3	14.9	4.4
Cods, unidentified	6.7	7.8	3.6	13.5	2.2	5.9	12.1	4.3	6.4	2.5
Pacific cod ( <i>Gadus macrocephalus</i> )	3	3.5	1.6	1.6	2.2	5.4	6.1	0	6.4	0.6
Walleye pollock ( <i>Gadus chalcogrammus</i> )	2.5	3.3	0.4	11.9	0	1.1	0	0	0	0.6
Pacific tomcod ( <i>Microgadus proximus</i> )	0.3	0.1	0.8	0	0.4	0	0	0	2.1	0.6
Squids and octopuses: class Cephalopoda	6.2	4.1	12.3	3.2	1.3	7	6.1	21.7	25.5	5.7
Squids and octopuses, unidentified	4.1	2.9	7.5	2.2	0.9	4.3	5.3	15.2	19.1	1.9
Octopuses, unidentified	1.5	0.7	4	0.5	0.4	1.6	0	6.5	6.4	2.5
Squids, unidentified	0.6	0.5	0.8	0.5	0	1.1	0.8	0	0	1.3
Greenlings: family Hexagrammidae	4.6	5.6	1.6	7.6	2.2	8.6	4.5	4.3	0	1.3
Lingcod ( <i>Ophiodon elongatus</i> )	3.3	4.1	1.2	7.6	2.2	4.8	1.5	4.3	0	0.6
Hexagrammids, unidentified	0.9	1.1	0.4	0	0	2.2	3	0	0	0.6
Atka mackerel ( <i>Pleurogrammus monopterygius</i> )	0.3	0.4	0	0	0	1.6	0	0	0	0

Prey group	Total	FO (%)								
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Subclass Elasmobranchii	3.9	3.1	6	3.8	2.2	3.2	3.8	4.3	8.5	5.7
Sharks and rays, unidentified	3.9	3.1	6	3.8	2.2	3.2	3.8	4.3	8.5	5.7
Smelts: family Osmeridae	3.2	2.5	5.6	2.7	0.4	3.2	4.5	6.5	0	6.9
Smelt, unidentified	3.1	2.3	5.6	2.7	0.4	3.2	3.8	6.5	0	6.9
Eulachon ( <i>Thaleichthys pacificus</i> )	0.2	0.1	0.4	0	0	0	0.8	0	0	0.6
Sand lances: family Ammodytidae	2.6	3.3	0.8	3.2	2.6	2.2	6.1	0	4.3	0
Pacific sand lance ( <i>Ammodytes hexapterus</i> )	2.6	3.3	0.8	3.2	2.6	2.2	6.1	0	4.3	0
Lampreys: family Petromyzontidae	2.3	2.9	0.8	4.3	0.9	2.7	4.5	2.2	0	0.6
Pacific lamprey ( <i>Entosphenus tridentatus</i> )	1.2	1.4	0.8	2.2	0	1.1	3	2.2	0	0.6
Lamprey, unidentified	1.1	1.5	0	2.2	0.9	1.6	1.5	0	0	0
Mackerels and tunas: family Scombidae	1.2	1.6	0	0	4.3	1.1	0	0	0	0
Pacific chub mackerel ( <i>Scomber japonicus</i> )	1.2	1.6	0	0	4.3	1.1	0	0	0	0
Sculpins: family Cottidae	1.1	1.4	0.4	1.1	0	2.2	3	0	0	0.6
Sculpins, unidentified	1	1.2	0.4	1.1	0	1.6	3	0	0	0.6
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	0.1	0.1	0	0	0	0.5	0	0	0	0
Sticklebacks: family Gasterosteidae	1.1	1.5	0	4.9	0	0.5	0.8	0	0	0
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )	1.1	1.5	0	4.9	0	0.5	0.8	0	0	0

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Poachers: family Agonidae	1.1	1.5	0	1.6	1.7	1.6	0.8	0	0	0
Poachers, unidentified	1	1.4	0	1.6	1.7	1.1	0.8	0	0	0
Sturgeon poacher ( <i>Podotheucus accipenserinus</i> )	0.1	0.1	0	0	0	0.5	0	0	0	0
Snailfishes: family Liparidae	0.8	1	0.4	1.1	1.3	0.5	0.8	0	0	0.6
Snailfishes, unidentified	0.8	1	0.4	1.1	1.3	0.5	0.8	0	0	0.6
Hagfishes: family Myxinidae	0.6	0.7	0.4	1.1	0	1.1	0.8	0	2.1	0
Pacific hagfish ( <i>Eptatretus stoutii</i> )	0.6	0.7	0.4	1.1	0	1.1	0.8	0	2.1	0
Eelpouts: family Zoarcidae	0.3	0.3	0.4	0	0	1.1	0	2.2	0	0
Eelpouts, unidentified	0.3	0.3	0.4	0	0	1.1	0	2.2	0	0
Jacks: family Carangidae	0.3	0.1	0.8	0	0	0.5	0	0	0	1.3
Jack mackerel ( <i>Trachurus symmetricus</i> )	0.3	0.1	0.8	0	0	0.5	0	0	0	1.3
Gunnels: family Pholidae	0.2	0.3	0	0	0	0	1.5	0	0	0
Gunnels, unidentified	0.2	0.3	0	0	0	0	1.5	0	0	0
Frogs and salamanders, class Amphibia	0.2	0.3	0	0	0	1.1	0	0	0	0
Frogs and salamanders, unidentified	0.2	0.3	0	0	0	1.1	0	0	0	0
Wolffishes: family Anarrhichadidae	0.1	0.1	0	0	0.4	0	0	0	0	0
Wolf-eel ( <i>Anarrhichthys ocellatus</i> )	0.1	0.1	0	0	0.4	0	0	0	0	0