

Supplementary Table 5. Split-sample frequency of occurrence (SSFO) by major prey group (family, order, or class) and by the lowest taxon identified for prey consumed by Steller sea lions (*Eumetopias jubatus*) by year in northwest Washington during 2010–2013. Split-sample frequency of occurrence calculations for major prey groups and for the lowest identifiable taxonomic groups were performed separately and as a result have slightly different values.

	2010	2011	2012	2013
No. of samples containing >0 identifiable prey	55	293	332	50
Prey group	SSFO			
Herrings, shads, sardines: family Clupeidae	18.6%	27.9%	20.1%	14.4%
Clupeids, unidentified	11.0%	13.8%	9.4%	9.8%
Pacific herring (<i>Clupea pallasii</i>)	3.3%	3.6%	4.1%	4.5%
Pacific sardine (<i>Sardinops sagax</i>)	3.9%	10.1%	4.9%	0.3%
American shad (<i>Alosa sapidissima</i>)	1.3%	0.9%	1.8%	0.0%
Salmon: family Salmonidae	5.7%	10.8%	11.7%	24.1%
Salmon or trout, unidentified	5.6%	10.7%	11.5%	24.0%
Rockfishes: family Sebastidae	12.7%	13.9%	13.9%	15.6%
Rockfish (<i>Sebastes</i> spp.)	12.5%	13.9%	13.8%	15.5%
Skates: family Rajidae	7.0%	11.6%	14.1%	21.4%
Skates, unidentified	7.0%	11.4%	13.5%	21.4%
Dogfish sharks: family Squalidae	7.2%	8.2%	8.5%	9.3%
Pacific spiny dogfish (<i>Squalus suckleyi</i>)	7.1%	8.1%	8.4%	9.2%
Flatfishes: order Pleuronectiformes	14.3%	7.5%	12.3%	0.5%
Starry flounder (<i>Platichthys stellatus</i>)	6.1%	3.6%	5.4%	0.0%
Righteye flounders, family Pleuronectidae	2.8%	1.2%	2.9%	0.0%
Arrowtooth flounder (<i>Atheresthes stomias</i>)	2.7%	0.5%	2.1%	0.0%
Butter sole (<i>Isopsetta isolepis</i>)	0.0%	0.2%	1.2%	0.0%
Flatfishes, unidentified	1.8%	1.0%	0.6%	0.5%
Dover sole (<i>Microstomus pacificus</i>)	0.0%	0.2%	0.3%	0.0%
Rex sole (<i>Glyptocephalus zachirus</i>)	0.4%	0.2%	0.5%	0.0%
Sanddabs (<i>Citharichthys</i> spp.)	0.3%	0.5%	0.1%	0.0%
English sole (<i>Parophrys vetulus</i>)	0.0%	0.4%	0.2%	0.0%
Sand sole (<i>Psettichthys melanostictus</i>)	0.0%	0.0%	0.2%	0.0%
Slender sole (<i>Lyopsetta exilis</i>)	0.0%	0.0%	0.1%	0.0%
Turbot (<i>Pleuronichthys</i> spp.)	0.0%	0.1%	0.0%	0.0%
Hakes: family Merlucciidae	24.5%	6.2%	3.3%	0.0%
Pacific hake (<i>Merluccius productus</i>)	24.3%	6.1%	3.3%	0.0%
Anchovies: family Engraulidae	3.6%	3.6%	0.7%	0.7%
Northern anchovy (<i>Engraulis mordax</i>)	3.5%	3.5%	0.7%	0.7%

Prey group	SSFO			
	2010	2011	2012	2013
Squids and octopuses: class Cephalopoda	3.0%	1.0%	0.8%	2.5%
Squids and octopuses, unidentified	1.8%	0.6%	0.6%	2.0%
Octopuses, unidentified	1.2%	0.2%	0.1%	0.0%
Squids, unidentified	0.0%	0.1%	0.1%	0.5%
Cods: family Gadidae	1.8%	5.1%	5.1%	3.9%
Cods, unidentified	0.5%	1.4%	2.7%	3.2%
Pacific cod (<i>Gadus macrocephalus</i>)	1.2%	0.6%	1.9%	0.7%
Walleye pollock (<i>Gadus chalcogrammus</i>)	0.0%	3.0%	0.3%	0.0%
Pacific tomcod (<i>Microgadus proximus</i>)	0.0%	0.0%	0.1%	0.0%
Greenlings: family Hexagrammidae	0.5%	0.9%	2.7%	1.3%
Lingcod (<i>Ophiodon elongatus</i>)	0.5%	0.7%	1.6%	0.9%
Hexagrammids, unidentified	0.0%	0.2%	0.7%	0.4%
Atka mackerel (<i>Pleurogrammus monopterygius</i>)	0.0%	0.0%	0.3%	0.0%
Smelts: family Osmeridae	0.9%	0.2%	0.8%	1.1%
Smelts, unidentified	0.9%	0.2%	0.8%	1.1%
Eulachon (<i>Thaleichthys pacificus</i>)	0.0%	0.0%	0.0%	0.3%
Sand lances: family Ammodytidae	0.0%	0.5%	1.3%	3.0%
Pacific sand lance (<i>Ammodytes hexapterus</i>)	0.0%	0.5%	1.3%	3.0%
Lampreys: family Petromyzontidae	0.0%	0.5%	1.1%	1.4%
Pacific lamprey (<i>Entosphenus tridentatus</i>)	0.0%	0.1%	0.5%	1.0%
Lampreys, unidentified	0.0%	0.4%	0.7%	0.4%
Mackerels and tunas: family Scombidae	0.0%	0.5%	0.9%	0.0%
Pacific chub mackerel (<i>Scomber japonicus</i>)	0.0%	0.5%	0.8%	0.0%
Sculpins: family Cottidae	0.0%	0.4%	0.4%	0.3%
Sculpins, unidentified	0.0%	0.4%	0.3%	0.3%
Pacific staghorn sculpin (<i>Leptocottus armatus</i>)	0.0%	0.0%	0.1%	0.0%
Sticklebacks: family Gasterosteidae	0.0%	0.6%	0.5%	0.3%
Threespine stickleback (<i>Gasterosteus aculeatus</i>)	0.0%	0.6%	0.5%	0.3%
Poachers: family Agonidae	0.3%	0.0%	0.8%	0.0%
Poachers, unidentified	0.3%	0.0%	0.6%	0.0%
Sturgeon poacher (<i>Podothecus accipenserinus</i>)	0.0%	0.0%	0.1%	0.0%
Snailfishes: family Liparidae	0.0%	0.3%	0.4%	0.0%
Snailfishes, unidentified	0.0%	0.3%	0.3%	0.0%
Hagfishes: family Myxinidae	0.0%	0.1%	0.2%	0.3%
Pacific hagfish (<i>Eptatretus stoutii</i>)	0.0%	0.1%	0.2%	0.3%

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Eelpouts: family Zoarcidae	0.0%	0.0%	0.1%	0.0%
Eelpouts, unidentified	0.0%	0.0%	0.1%	0.0%
Jacks: family Carangidae	0.0%	0.0%	0.1%	0.0%
Jack mackerel (<i>Trachurus symmetricus</i>)	0.0%	0.0%	0.1%	0.0%
Gunnels: family Pholidae	0.0%	0.0%	0.2%	0.0%
Gunnels, unidentified	0.0%	0.0%	0.2%	0.0%
Frogs and salamanders, class Amphibia	0.0%	0.1%	0.0%	0.0%
Frogs and salamanders, unidentified	0.0%	0.1%	0.0%	0.0%
Wolffishes: family Anarhichadidae	0.0%	0.0%	0.1%	0.0%
Wolf-eel (<i>Anarrhichthys ocellatus</i>)	0.0%	0.0%	0.1%	0.0%