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Table of Contents

Introduction	1
Abalone, Pinto	2
Capelin	2
Clams	2
Softshell	2
Macoma	2
Cockles	2
Littlenecks	2
Geoducks	2
Razors	2
Butter	2
Cod, Pacific	3
Crab	4
Dungeness	4
King (Red, Brown or Golden)	4
King (Blue)	4
Tanner	5
Dogfish	5
Eels	5
Fish Meal	5
Flounders	6
Arrowtooth	6
Starry	6
Hake, Pacific	6
Halibut, Pacific	7
Herring, Pacific	7
Lamprey, Pacific	7
Lingcod	8
Mackerel, Atka	8
Mussels	8
Octopus	8
Oysters	8
Pacific Ocean Perch	9
Plaice, Alaska	9

Pollock, Walleye	
Rat-Tails	
Rockfish	10
Black	10
Greenstriped	10
Thomyhead	10
Canary	10
China	10
Dusky	10
Quillback	10
Redbanded	10
Redstriped	10
Rosethorn	1
Rougheye	10
Shortraker	1
Silvergray	10
Tiger	10
Widow	10
Yelloweye	1
Yellowtail	10
Sablefish	11
Salmon	11
Pink	11-12
Chum	12-13
Sockeye	13-14
Coho	14-1
Other Salmon	15-10
All Wild Salmon (trim)	16
Salmon, Farmed	17
Norwegian	17
Chilean	1

Table of Contents (continued)

Salmon, Frozen and Thav	ved 17
Chum (Thawed)	17
Pink (Thawed)	17
Sockeye (Thawed)	17
Silver (Thawed)	18
Saury, Pacific	18
Scallops	18
Sculpin	18
Sea Cucumber	18
Sea Urchin	19
Shad, American	19
Shark	19
Sharks, General	19
Salmon	20
Sevengill (Cow Shark)	20
Soupfin	20
Blue	20
Thresher	21
Blacktip	21
Shrimp	21
Pink	21
Spot	21
Skates	22
Smelt	22
Snails	22
Soles	22
Dabs	22
Dover	22
English	22
Flathead	23
Petrale	23
Rex	23
Rock	23
Yellowfin	23

Squid	23
Sturgeon	24
Trout	24
Trout, Farmed	24
Norwegian	24
Tuna, Albacore	25
Turbot, Greenland	25
Sources and References	26

Recoveries and Yields from Pacific Fish and Shellfish



Introduction

Yield and recovery data are important decision-making tools for many people in the seafood industry. The fisherman uses yield data to determine whether roe herring are ready to be fished. The line foreman tracks the efficiency of his filleting operation by documenting daily recovery. And the plant manager uses yield figures to estimate the profitability of a new fishery or processing line. Finding this information can be difficult since much of it is generated in scientific papers or under actual processing conditions, but without it making good decisions becomes more uncertain.

This publication is a compilation of recovery and yield data from scientific sources and industry experience.

Note!!

Recoveries are reported as averages and expected ranges. The average yield represents high quality, properly handled fresh fish and shellfish in good physiological condition. If fish condition is abnormal, in a post-spawning or starving state, then the numbers will not be good estimates. The ranges, when available, represent the typical variations found within fish populations during the year.

Many other factors such as handling and processing conditions will also affect yields. Filleting skills, cooking times, and refrigeration systems can all have an effect on recoveries. The data presented here are based on typical processing and handling methods.

Smoked fish yields were calculated using an average 15% weight loss during salting/brining and 10% in the smoking process.



From	То	Average (%)	Range (%
Abalone,	Pinto Haliotus k	amtschatkana	
Whole	Edible Muscle	42	40-45
	Meat	25	
	Trimming	16	
	Dried Muscle	10	
Blackcod	(see Sablefish)		
Capelin A	Mallotus villosus		
Round	D/H-On	89	84-93
	D/H-Off	78	73-81
Clams			
Softshell M	ya sp.		
Whole	Edible Meats	57	53-62
	- Lune - Lune		
Macoma Ma		50	45-59
Whole	Edible Meats	53	45-59
Cockles Clir	nocardium sp.		
Whole	Edible Meats	42	38-48
Littlemeeke	Drotothoon on		
Whole	Protothaca sp. Edible Meats	37	31-46
Geoducks F		00	20.05
Whole	Edible Meats	33	32-35
	Steaks	22 12	20-25 9-14
	Necks	12	9-14
Razors Siliq	ua sp.		
Whole	Edible Meats	44	42-50
D 31 .	Cooked Meat	60	
Raw Meat			
Butter Saxio	domus sp.		

From	To	Average (%)	Range (%)
Cod, Pacifi	c Gadus macrocep	halus	
Round	D/H-On	81	72-90
	D/H-Off	63	56-75
	Skin-On Fillets (V-cut)	45	38-48
	Skinless Fillets (V-cut)	39	22-45
	S/B Fillets (V-cut)	33	18-39
	Skin-On Fillets	38	
	Skinless Fillets (J-cut)	32	
	S/B Fillets (J-cut)	26	
	Steaks	62	
	Salted D/H-Off	45	
	Smoked D/H-Off	58	50-65
	Belly Flaps	10	
	Liver	5	3-7
	Roe	4	1-7
D/H-On	D/H-Off	78	
	Skin-On Fillets	55	42-60
	Skinless Fillets	48	34-56
	S/B Fillets	41	20-48
D/H-Off	Skin-On Fillets	71	54-80
	Skinless Fillets	62	31-81
	S/B Fillets	52	25-70
Skin-On Fillets	Skinless Fillets	87	
	Trim	12	
	S/B Fillets	73	
Skinless Fillets	S/B Fillets	84	
	Trim	13	
Trim	Mince	90	80-95

From	То	Average (%)	Range (%)
Crab			
Dungeness Ca	ancer magister		
Raw Whole	Raw Sections	60	
	Cooked Whole	90	
	Cooked Sections	52	
	Cooked Meat	24	22-25
	(d	uring molt)	13-14
Raw Sections	Cooked Sections	87	
Cooked Whole	Cooked Meat	27	
Cooked Sections	Cooked Meat	46	

King (Red, B		Paralithodes camtschatica, Lithodes aequispina
Raw Whole	Raw Sections	69

Raw Sections	69	67-74
Cooked Whole	92	90-95
Cooked Sections	60	52-67
Cooked Meat	25	23-28
(dur	ing molt)	16-19
Cooked Sections	87	
Cooked Meat	27	
Cooked Meat	42	
	Cooked Whole Cooked Sections Cooked Meat (dur Cooked Sections Cooked Meat	Cooked Whole 92 Cooked Sections 60 Cooked Meat 25 (during molt) Cooked Sections 87 Cooked Meat 27

King (Blue) Paralithodes platypus

Killy (blue) Pa	trailtrioues platypus		
Raw Whole	Raw Sections	65	
	Cooked Whole	90	
	Cooked Sections	55	50-61
	Cooked Meat	20	16-23
	(dui	ring molt)	13-14
Raw Sections	Cooked Sections	84	
Cooked Whole	Cooked Meat	22	
Cooked Sections	Cooked Meat	37	

From	· To	Average (%)	Range (%)
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Crab (continued)

Turner Ornorocccies bandi, O. Opino	Tanner	Chionoecetes	bairdi,	C.	opilio
-------------------------------------	--------	--------------	---------	----	--------

Raw Whole	Raw Sections	68	65-72
	Cooked Whole	92	90-95
	Cooked Sections	60	58-66
	Cooked Meat	17	15-21
	(dur	ing molt)	10-14
Raw Sections	Cooked Sections	88	
Cooked Whole	Cooked Meat	19	
Cooked Sections	Cooked Meat	28	

Dogfish Squalus acanthias

	The state of the s		
Round	D/H-On	75	69-80
	D/H-Off	55	41-68
	Edible Portion	36	32-40
	Backs	30	
	Belly Flaps	5	
	Tails and Fins	4	4-6
	Liver	13	10-21
	Viscera	51	
D/H-On	D/H-Off	69	
	Backs	38	
	Belly Flaps	7	

Eels Anguilliformes

Round	D/H-On	90	
	D/H-Off	72	70-75
	Skin-On Flesh	62	56-65
	Smoked D/H-Off	65	

Fish Meal

Lean Fish	Meal	18	16-20
Fatty Fish	Meal	22	20-25

From	To Av	erage (%)	Range (%)
Flounders			
Arrowtooth A	theresthes stomias		
Round	D/H-On	90	84-94
	D/H-Off	74	70-80
	Skinless Fillet	34	25-39
	Surimi	11	
	Kurimi	48	
	S/B fillets	25	18-30
Starry Platich	thys stellatus		
Round	D/H-On	84	79-86
	D/H-Off	67	63-69
-	OUT I FIN I	00	05 40
	Skinless Fillet	33	25-40
	fic Merluccius produ	ctus	
Hake, Paci	fic Merluccius produ	ctus 80	70-85
	fic Merluccius produ D/H-On D/H-Off	80 60	
	fic Merluccius produ D/H-On D/H-Off Skin-On Fillets	80 60 43	70-85
	fic Merluccius produ D/H-On D/H-Off Skin-On Fillets Skinless Fillets	80 60 43 32	70-85
	fic Merluccius produ D/H-On D/H-Off Skin-On Fillets Skinless Fillets S/B Fillets	80 60 43 32 27	70-85 56-71
	fic Merluccius produ D/H-On D/H-Off Skin-On Fillets Skinless Fillets	80 60 43 32	70-85
Round	D/H-On D/H-Off Skin-On Fillets Skinless Fillets S/B Fillets Surimi (Decanter Process)	80 60 43 32 27	70-85 56-71 26-30
	D/H-On D/H-Off Skin-On Fillets Skinless Fillets S/B Fillets Surimi (Decanter Process) Roe	80 60 43 32 27 27	70-85 56-71 26-30
Round	D/H-On D/H-Off Skin-On Fillets Skinless Fillets S/B Fillets Surimi (Decanter Process) Roe D/H-Off	80 60 43 32 27 27	70-85 56-71 26-30
Round	D/H-On D/H-Off Skin-On Fillets Skinless Fillets S/B Fillets Surimi (Decanter Process) Roe D/H-Off Skin-On Fillets	80 60 43 32 27 27 71 51	70-85 56-71 26-30
Round	D/H-On D/H-Off Skin-On Fillets Skinless Fillets S/B Fillets Surimi (Decanter Process) Roe D/H-Off Skin-On Fillets Skinless Fillets	27 27 71 51 38	70-85 56-71 26-30
Round D/H-On	D/H-On D/H-Off Skin-On Fillets Skinless Fillets S/B Fillets Surimi (Decanter Process) Roe D/H-Off Skin-On Fillets Skinless Fillets	27 27 71 51 38 32	70-85 56-71 26-30
Round D/H-On	D/H-On D/H-Off Skin-On Fillets Skinless Fillets S/B Fillets Surimi (Decanter Process) Roe D/H-Off Skin-On Fillets Skinless Fillets Skinless Fillets	27 27 71 51 38 32 75	70-85 56-71 26-30

	То	Average (%)	Range (%)
Halibut, Pa	ncific Hippoglossu	s stenolepis	
Round	D/H-On	88	85-92
	D/H-Off	72	68-80
	Steaks	62	60-75
	Skin-On Fillet	49	45-56
	Skinless Fillet (Fletch)	41	34-44
D/H-On	D/H-Off	83	73-94
	Steaks	76	71-88
	Skin-On Fillet	56	47-64
	Skinless Fillet (Fletch)	46	38-50
D/H-Off	Skin-On Fillet	68	64-73
	Skinless Fillet (Fletch)	56	45-60
	Steaks	79	70-94
	Roasts	84	
Herring, Pa	acific Clupea hare	ngus pallasi	
	acific Clupea hare	<u> </u>	78-87
Herring, Pa	D/H-On	82	78-87 60-76
	D/H-On D/H-Off	82 70	60-76
	D/H-On D/H-Off Skin-On Fillets	82 70 53	60-76 45-60
	D/H-On D/H-Off Skin-On Fillets Skinless Fillets	82 70 53 49	60-76 45-60 41-58
	D/H-On D/H-Off Skin-On Fillets Skinless Fillets Salted Round	82 70 53 49 82	60-76 45-60
	D/H-On D/H-Off Skin-On Fillets Skinless Fillets Salted Round Salted Gibbed	82 70 53 49 82 65	60-76 45-60 41-58 79-88
	D/H-On D/H-Off Skin-On Fillets Skinless Fillets Salted Round Salted Gibbed Salted Fillets	82 70 53 49 82	60-76 45-60 41-58
	D/H-On D/H-Off Skin-On Fillets Skinless Fillets Salted Round Salted Gibbed Salted Fillets Smoked D/H-Off	82 70 53 49 82 65 42 60	60-76 45-60 41-58 79-88 35-47
	D/H-On D/H-Off Skin-On Fillets Skinless Fillets Salted Round Salted Gibbed Salted Fillets Smoked D/H-Off Roe	82 70 53 49 82 65 42 60 10	60-76 45-60 41-58 79-88
Round	D/H-On D/H-Off Skin-On Fillets Skinless Fillets Salted Round Salted Gibbed Salted Fillets Smoked D/H-Off Roe Pickled D/H-On	82 70 53 49 82 65 42 60	60-76 45-60 41-58 79-88 35-47
Round	D/H-On D/H-Off Skin-On Fillets Skinless Fillets Salted Round Salted Gibbed Salted Fillets Smoked D/H-Off Roe	82 70 53 49 82 65 42 60 10 74	60-76 45-60 41-58 79-88 35-47
Round Skin-On Fillets	D/H-On D/H-Off Skin-On Fillets Skinless Fillets Salted Round Salted Gibbed Salted Fillets Smoked D/H-Off Roe Pickled D/H-On Salted Fillets	82 70 53 49 82 65 42 60 10 74 85 90	60-76 45-60 41-58 79-88 35-47

From	То	Average (%)	Range (%
Lingcod	Ophiodon elongatus		
Round	D/H-On	90	83-93
	D/H-Off	70	62-74
	Skinless Fillet	35	29-38
	Steaks	62	
D/H-On	D/H-Off	80	67-89
	Skinless Fillet	39	31-45
	Steaks	69	
D/H-Off	Skinless Fillets	49	
	Steaks	86	
Mackere Round	el, Atka Pleurograms D/H-On	87	83-93
Mackere	l, Atka Pleurogrami	nus monoptery	<i>ıgius</i>
	D/H-On	87	83-93
	D/H-On D/H-Off	87 68	83-93 62-74
	D/H-On D/H-Off Skinless Fillet	87 68 31	83-93
	D/H-On D/H-Off Skinless Fillet Steaks	87 68 31 57	83-93 62-74
Round	D/H-On D/H-Off Skinless Fillet Steaks Salted D/H-Off	87 68 31	83-93 62-74
Round Mussels	D/H-On D/H-Off Skinless Fillet Steaks Salted D/H-Off Mytilus sp.	87 68 31 57 41	83-93 62-74 29-33
Round	D/H-On D/H-Off Skinless Fillet Steaks Salted D/H-Off Mytilus Sp. Edible Meat (wild)	87 68 31 57 41	83-93 62-74 29-33
Round Mussels	D/H-On D/H-Off Skinless Fillet Steaks Salted D/H-Off Mytilus sp. Edible Meat (wild) Edible Meat (cultured)	87 68 31 57 41	83-93 62-74 29-33 19-32 11-27
Round Mussels	D/H-On D/H-Off Skinless Fillet Steaks Salted D/H-Off Mytilus Sp. Edible Meat (wild)	87 68 31 57 41	83-93 62-74 29-33
Mussels Whole	D/H-On D/H-Off Skinless Fillet Steaks Salted D/H-Off Mytilus sp. Edible Meat (wild) Edible Meat (cultured)	87 68 31 57 41	83-93 62-74 29-33 19-32 11-27
Mussels Whole	D/H-On D/H-Off Skinless Fillet Steaks Salted D/H-Off Mytilus Sp. Edible Meat (wild) Edible Meat (cultured) Steamed	87 68 31 57 41	83-93 62-74 29-33 19-32 11-27
Mussels Whole Octopus	D/H-On D/H-Off Skinless Fillet Steaks Salted D/H-Off Mytilus Sp. Edible Meat (wild) Edible Meat (cultured) Steamed Octopus dofleini	87 68 31 57 41 26 20 14	83-93 62-74 29-33 19-32 11-27 10-18

From	To Av	erage (%)	Range (%)
Pacific Oce	an Perch Sebastes al	lutus	
Round	D/H-On	88	82-94
	D/H-Off	62	46-72
	Skinless Fillet	30	27-32
D/H-On	D/H-Off	71	
	Skinless Fillet	35	
Plaice, Ala	ska Pleuronectes qua	dritubercula	tus
Round	D/H-On	84	79-86
	D/H-Off	68	60-72
	Skinless Fillet	35	30-40
Round	D/H-On D/H-Off	79 62	72-86 52-72
I UIIUCK, VV	alleye Theragra chal	cogramma	
	Skin-On Fillets	40	35-55
	Skinless Fillets	34	29-43
	S/B Fillets	28	24-36
	S/B Fillets Mince	50	
	Mince	50	24-36
	Mince Surimi (Traditional Process)	50	24-36 30-60
	Mince	50	24-36 30-60 15-22
Skin-On Fillets	Mince Surimi (Traditional Process) Surimi (Decanter Process)	50 20 27	24-36 30-60 15-22 26-32
Skin-On Fillets	Mince Surimi (Traditional Process) Surimi (Decanter Process) Roe	50 20 27 6.5	24-36 30-60 15-22 26-32
Skin-On Fillets	Mince Surimi (Traditional Process) Surimi (Decanter Process) Roe Skinless Fillets	50 20 27 6.5 85	24-36 30-60 15-22 26-32
	Mince Surimi (Traditional Process) Surimi (Decanter Process) Roe Skinless Fillets Trim	50 20 27 6.5 85 15	24-36 30-60 15-22 26-32
Skin-On Fillets Trim Rat-Tails (Mince Surimi (Traditional Process) Surimi (Decanter Process) Roe Skinless Fillets Trim S/B Fillets	50 20 27 6.5 85 15 70	24-36 30-60 15-22 26-32
Trim	Mince Surimi (Traditional Process) Surimi (Decanter Process) Roe Skinless Fillets Trim S/B Fillets Mince	50 20 27 6.5 85 15 70	24-36 30-60 15-22 26-32

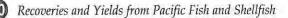
5-14

Oysters Crassostrea sp.

Raw Meats Cooked Meats

Raw Whole

Raw Meats



From	То	Average (%)	Range (%)
Rockfish			
Greenstripe	stes melanops d Sebastes elongatus l Sebastes altivelis		
Round	D/H-On	88	85-91
	D/H-Off	57	48-62
	D/H-Off (Eastern)	50	
	Skin-On Fillet	32	30-36
	Skinless Fillet	27	25-33
Skin-On Fillet	Skinless Fillet	85	
D/H-On	D/H-Off	65	
	Skin-On Fillet	56	
	Skinless Fillet	48	
China Seba Dusky Seba Quillback S Redbanded Redstriped	pastes pinniger astes nebulosus astes ciliatus Sebastes maliger Sebastes babcocki Sebastes prorigor Sebastes helvomaculatus	Shortraker Silvergray Tiger Seba Widow Se Yelloweye	Sebastes aleutianus Sebastes borealis Sebastes brevispini astes nigrocinctus bastes entomelas Sebastes ruberrimus Sebastes flavidus
Round	D/H-On	88	85-91
	D/H-Off	57	48-62
	D/H-Off (Eastern)	50	
	The state of the s	- EAST	

82

65

49

40

From	То	Average (%)	Range (%)	
Sablefish Anoplopoma fimbria				
Round	D/H-On	89	86-94	
	D/H-Off	68	67-71	
	D/H-Off (Eastern)	62	60-67	
	Skin-On Fillet	40	38-46	
	Skinless Fillet	35		
	Steaks	62	60-65	
	Salted D/H-Off	45		
	Smoked Sides	31	27-35	
D/H-Off	Skin-On Fillet	59		
	Skinless Fillet	28		
	Smoked Sides	45	40-49	
D/H-Off (Eastern)	Skin-On Fillets	64		
	Skinless Fillet	56		
	Smoked Sides	50	45-52	
Skin-On Fillets	Smoked Fillets	80		

Salmon

25-35

21-30

Round	D/H-On	91	84-94
	D/H-Off	73	68-80
	Canned	65	58-67
	Skin-On Fillet (Hand)	52	47-58
	Skin-On Fillet (Machine)	50	45-55
	Skinless Fillet	42	41-46
	S/B Fillet (Hand-V-Cut)	33	30-36
	S/B Fillet (Pinboning)	41	40-44
	S/B Trim	14	12-16
	Steaks	58	53-65
	Dry-Salt Sides	36	
	Mild Cure Sides	30	
	Smoked Sides	30	
	Roe	6	3-10
D/H-On	D/H-Off	81	72-90
	Skin-On Fillet (Hand)	57	50-64
	Skin-On Fillet (Machine)	55	48-61

Skin-On Fillet

Skinless Fillet

Skinless Fillet

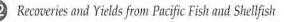
Skin-On Fillet

Skinless Fillet

D/H-Off

Skin-On Fillet

D/H-On



From	To	Average (%)	Range (
Salmon ((continued)		
Pink Onco	rhynchus gorbuscha (conti	nued)	
D/H-On	Skinless Fillet	46	43-55
	S/B Fillet (Hand-V-Cut)	36	32-43
	S/B Fillet (Pinboning)	44	41-53
	S/B Trim	16	13-19
	Steaks	63	56-77
	Dry-Salt Sides	40	
	Mild Cure Sides	33	
	Smoked Sides	33	
D/H-Off	Skin-On Fillet (Hand)	74	
	Skin-On Fillet (Machine)	71	
	Skinless Fillet	58	
	S/B Fillet (Hand-V-Cut)	45	
	S/B Fillet (Pinboning)	55	
	S/B Trim	19	
	Steaks	80	
	Dry-Salt Sides	49	
	Mild Cure Sides	41	
	Smoked Sides	41	35-50
Chum Ond	corhynchus keta		
Round	D/H-On	89	79-91
	D/H-Off	74	71-77
	Canned	67	60-70
	Skin-On Fillet (Hand)	60	55-63
	Skin-On Fillet (Machine)	57	52-59
	Skinless Fillet	50	45-53
	S/B Fillet (Hand-V-Cut)	36	30-36
		48	74.4
	S/B Fillet (Pinboning)		
	S/B Fillet (Pinboning) S/B Trim	15	
			12-16
	S/B Trim	15	43-5 ⁻ 12-16 55-65
	S/B Trim Steaks	15 58	12-16
	S/B Trim Steaks Dry-Salt Sides	15 58 43	12-16

From	То	Average (%)	Range (%)	
Salmon (co	ntinued)			
Salmon, Chum	n Oncorhynchus keta (continued)			
D/H-On	D/H-Off	83	79-91	
	Skin-On Fillet (Hand)	67	61-74	
	Skin-On Fillet (Machine)	64	58-66	
	Skinless Fillet	56	49-62	
	S/B Fillet (Hand-V-Cut)	43	38-47	
	S/B Fillet (Pinboning)	53	47-59	
	S/B Trim	17	13-19	
	Steaks	65	61-75	
	Dry-Salt Sides	48		
	Mild Cure Sides	39		
	Smoked Sides	39		
D/H-Off	Skin-On Fillet (Hand)	81		
	Skin-On Fillet (Machine)	77		
	Skinless Fillet	67		
	S/B Fillet (Hand-V-Cut)	51		
	S/B Fillet (Pinboning)	64		
	S/B Trim	20		
	Steaks	78		
	Dry-Salt Sides	58		
	Salted D/H-Off	47		
	Smoked Sides	55	45-60	
Sockeye Once	orhynchus nerka			
Round	D/H-On	92	85-94	
70-8301-9	D/H-Off	74	66-82	
	Canned	67	60-70	
	Skin-On Fillet (Hand)	53	50-59	
	Skin-On Fillet (Machine)		48-56	
	CHICKLE AND CAROOL CONTRACTOR			
	Skinless Fillet	46	41-49	
	Skinless Fillet S/B Fillet (Hand-V-Cut)	46 35	41-49 30-38	
	S/B Fillet (Hand-V-Cut)	46 35 45	30-38	
	S/B Fillet (Hand-V-Cut) S/B Fillet (Pinboning)	35 45	30-38 40-48	
	S/B Fillet (Hand-V-Cut)	35	30-38	

From	То	Average (%)	Range (%)
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Salmon (continued)

Round	Mild Cure Sides	33	
	Smoked Sides	33	
	Roe	4	3-6
D/H-On	D/H-Off	80	70-94
	Skin-On Fillet (Hand)	57	53-68
	Skin-On Fillet (Machine)	54	49-62
	Skinless Fillet	50	43-56
	S/B Fillet (Hand-V-Cut)	38	32-41
	S/B Fillet (Pinboning)	48	42-54
	S/B Trim	16	13-28
	Steaks	62	59-75
	Dry-Salt Sides	44	
	Mild Cure Sides	36	
	Smoked Sides	36	
D/H-Off	Skin-On Fillet (Hand)	72	
	Skin-On Fillet (Machine)	69	
	Skinless Fillet	62	
	S/B Fillet (Hand-V-Cut)	47	
	S/B Fillet (Pinboning)	59	
	S/B Trim	20	
	Steaks	77	
	Dry-Salt Sides	54	
	Mild Cure Sides	45	
	Smoked Sides	45	35-60

Coho Oncorhynchus kisutch

Round	D/H-On	92	87-94
	D/H-Off	75	70-83
	Canned	67	60-70
	Skin-On Fillet (Hand)	57	52-60
	Skin-On Fillet (Machine)	55	50-57
	Skinless Fillet	51	46-56
	S/B Fillet (Hand-V-Cut)	38	30-40
	S/B Fillet (Pinboning)	49	44-54
	S/B Trim	14	12-17

From	To	Average (%)	Range (%)

Salmon (continued)

Round	Steaks	62	58-65
	Dry-Salt Sides	43	
	Mild Cure Sides	36	
	Smoked Sides	36	
	Roe	7	5-10
D/H-On	D/H-Off	82	76-92
	Skin-On Fillet (Hand)	62	58-67
	Skin-On Fillet (Machine)	59	56-63
	Skinless Fillet	55	49-63
	S/B Fillet (Hand-V-Cut)	41	32-45
	S/B Fillet (Pinboning)	52	46-60
	S/B Trim	15	13-18
	Steaks	66	63-73
	Dry-Salt Sides	47	
	Mild Cure Sides	39	
	Smoked Sides	39	
D/H-Off	Skin-On Fillet (Hand)	76	
	Skin-On Fillet (Machine)	73	
	Skinless Fillet	68	
	S/B Fillet (Hand-V-Cut)	51	
	S/B Fillet (Pinboning)	64	
	S/B Trim	19	
	Steaks	81	
	Dry-Salt Sides	57	
	Mild Cure Sides	48	
	Smoked Sides	48	40-60

Other Salmon, including Chinook and Cherry

Round	D/H-On	88	82-94
	D/H-Off	72	68-74
	Skin-On Fillet (Hand)	55	52-60
	Skinless Fillet	46	41-49
	S/B Fillet (Hand-V-Cut)	36	30-40
	S/B Fillet (Pinboning)	45	40-48
	S/B Trim	14	12-16

From To Average (%) Range (%)

Salmon (continued)

Other Salmon,	including	Chinook and	Cherry	(continued)
				100,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Round	Steaks	58	54-65
	Dry-Salt Sides	40	
	Mild Cure Sides	34	
	Smoked Sides	34	
	Roe	6	3-10
D/H-On	D/H-Off	82	73-90
	Skin-On Fillet (Hand)	63	55-73
	Skinless Fillet	52	44-59
	S/B Fillet (Hand-V-Cut)	41	32-49
	S/B Fillet (Pinboning)	50	42-57
	S/B Trim	16	13-20
	Steaks	66	57-79
	Dry-Salt Sides	46	7 - 1
	Mild Cure Sides	39	
	Smoked Sides	39	
D/H-Off	Skin-On Fillet (Hand)	76	
	Skinless Fillet	64	
	S/B Fillet (Hand-V-Cut)	50	
	S/B Fillet (Pinboning)	61	
	S/B Trim	19	
	Steaks	81	
	Dry-Salt Sides	56	
	Mild Cure Sides	47	
	Smoked Sides	47	35-60
Raw Steak	Baked Steak	89	
	Broiled Steak	83	

All Wild Salmon

O 1	steps. 4
Salmon	. Trim

Salmon, 11	im		
D/H-Off	Trim A	76	75-80
	Trim B	74	73-75
	Trim C	74	73-75
	Trim D	67	64-70
	Trim E	61	58-64

From	То	Average (%)	Range (%)
Salmon,	Farmed		
Norwegian			
D/H-On	D/H-Off	88	¥.
	Skin-On fillet	76	
	Skinless Fillet	68	
	Roasts	85	
Chilean			
D/H-On	D/H-Off	86	
	Skin-On Fillet	72	
	Skinless Fillet	66	

Salmon, Frozen and Thawed

Roasts

Note: Freezing conditions and length of storage will affect recoveries. Poor conditions and storage more than six months will reduce yields significantly.

Chum (Thawed)

D/H-On	Skin-On Fillet	62	
	Skinless Fillet	52	
D/H Off	Skin-On Fillet	75	
	Skinless Fillet	63	

Pink (Thawed)

D/H-On	Skin-On Fillet	54	
	Skinless Fillet	45	
D/H-Off	Skin-On Fillet	67	
	Skinless Fillet	56	

Sockeye (Thawed)

D/H-On	Skin-On Fillet	52	
	Skinless Fillet	47	
D/H-Off	Skin-On Fillet	65	
	Skinless Fillet	59	

From	To	Average (%)	Range (%)
U UCALL		michago (10)	riange (70)

Salmon, Frozen and Thawed (continued)

Silver (Thawed)

D/H-On	Skin-On Fillet	58	
	Skinless Fillet	49	
D/H-Off	Skin-On Fillet	71	
	Skinless Fillet	60	

Saury, Pacific Cololabis saira

Round	D/H-On	88	83-92
	D/H-Off	76	71-86
	Skinless Fillet	57	54-61

Scallops Chlamys sp., Hinnites sp., Pecten sp.

Raw Whole	Adductor Muscle	10	8-12
	Viscera	22	20-26
Raw Meats	Cooked Meats	50	

Sculpin Enophrys sp., Hemilepidotus sp.,

Myoxocephalus sp.

		- A A	
Round	D/H-On	80	75-87
	D/H-Off	39	25-51
	Skinless Fillet	24	20-41

Sea Cucumber Cucumaria sp.

Whole	Eviscerated Meat	36	
	Edible Meat	25	
	Cooked Meat	13	
	Dried Meat	5	

From	То	Average (%)	Range (%)
Sea Urch	in Strongylocent	rotus sp.	
Green			
Round	Roe		5-30
Red			
Round	Roe		8-30
Shad, A	merican Alosa saj	pidissima	
Round	D/H-On	88	85-92
	D/H-Off	74	69-77
	Skin-On Fillet	65	62-67
	Skinless Fillet	54	
	Roe		3-17

Shark

Round	D/H-On	80	62-90
	D/H-Off	58	22-75
	Trunk	51	33-67
	Skin-On Fillet	42	21-60
	Skinless Fillet	32	17-56
- 41	Fins	5	1-12
D/H-On	D/H-Off	73	
	Trunk	64	
	Skin-On Fillet	53	
	Skinless Fillet	40	
	Fins	6	
D/H-Off	Trunk	88	
	Skin-On Fillet	73	
	Skinless Fillet	55	
	Fins	9	

From	То	Average (%)	Range (%
Shark (c	ontinued)		
Salmon La	amna ditropis		
Round	D/H-On	80	
	D/H-Off	63	50-66
	Trunk	58	44-59
	Skin-On Fillet	53	39-57
	Skinless Fillet	44	32-48
	Fins	5	
Sevengill (Cow Shark) Notoryno	chus maculata	
Round	D/H-On	86	
33.1	D/H-Off	55	
	Trunk	52	
	Skin-On Fillet	45	
	Skinless Fillet	35	
	Fins	5	
Soupfin G	aleorhinus zyopterus		
Round	D/H-On	65	
	D/H-Off	51	
	Trunk	45	
	Fins	4	
Blue Prion	ace glauca		
	acc gradou		
Round	D/H-On	88	
		88 67	
	D/H-On		
	D/H-On D/H-Off	67	
	D/H-On D/H-Off Trunk	67 54	

From	То	Average (%)	Range (%
Shark (con	tinued)		
Thresher Alog	pias vulpinus		
Round	D/H-On	85	
	D/H-Off	71	
	Trunk	57	
	Skin-On Fillet	49	
	Skinless Fillet	44	
	Fins	14	
Blacktip Card	charhinus limbatus		
Round	D/H-On	82	
	D/H-Off	62	
	Trunk	52	
	Skin-On Fillet	46	
	Skinless Fillet	36	
	Fins	10	
Chairman Da	undalus on		
Shrimp Pa	ındalus sp.		
Pink		53	
	Raw Headless Cooked Whole	53 90	
Pink	Raw Headless	1000	
Pink	Raw Headless Cooked Whole	90	
Pink	Raw Headless Cooked Whole Raw Peeled	90 36	
Pink Raw Whole	Raw Headless Cooked Whole Raw Peeled Cooked Peeled	90 36 25	
Pink Raw Whole Raw Headless	Raw Headless Cooked Whole Raw Peeled Cooked Peeled Cooked Peeled	90 36 25 69	
Pink Raw Whole Raw Headless Cooked Whole	Raw Headless Cooked Whole Raw Peeled Cooked Peeled Cooked Peeled	90 36 25 69	45-49
Pink Raw Whole Raw Headless Cooked Whole Spot	Raw Headless Cooked Whole Raw Peeled Cooked Peeled Cooked Peeled Cooked Peeled	90 36 25 69 28	45-49
Pink Raw Whole Raw Headless Cooked Whole Spot	Raw Headless Cooked Whole Raw Peeled Cooked Peeled Cooked Peeled Cooked Peeled Raw Headless	90 36 25 69 28	45-49 30-38
Pink Raw Whole Raw Headless Cooked Whole Spot	Raw Headless Cooked Whole Raw Peeled Cooked Peeled Cooked Peeled Cooked Peeled Raw Headless Cooked Whole	90 36 25 69 28 47 90	
Pink Raw Whole Raw Headless Cooked Whole Spot	Raw Headless Cooked Whole Raw Peeled Cooked Peeled Cooked Peeled Cooked Peeled Raw Headless Cooked Whole Raw Peeled	90 36 25 69 28 47 90 34	

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From	То	Average (%)	Range (%
Skates 1	Raja sp.		
Round	D/H-On	90	75-95
	D/H-Off	39	
	Wings	23	20-23
Smelt H	Iypomesus sp., Spir	inchus sp.	
Round	D/H-On	85	82-90
	D/H-Off	71	67-78
	Skinless Fillet	38	
	Salted D/H-Off	45	
	Smoked D/H-Off	57	
	Cooked Fillet	35	
Snails N Whole	Edible Meats	28	27-31
Whole		28	27-31
Whole Soles	Edible Meats	28	27-31
Whole Soles Dabs Lima	Edible Meats anda proboscidea		
Whole Soles	Edible Meats	28 85 64	75-90
Whole Soles Dabs Lima	Edible Meats anda proboscidea D/H-On	85	
Soles Dabs Lima Round	Edible Meats anda proboscidea D/H-On D/H-Off	85 64	75-90 55-75
Soles Dabs Lima Round Dover Mic	Edible Meats anda proboscidea D/H-On D/H-Off Skinless Fillet	85 64	75-90 55-75
Soles Dabs Lima Round	Edible Meats anda proboscidea D/H-On D/H-Off Skinless Fillet prostomus pacificus	85 64 23	75-90 55-75 17-26
Soles Dabs Lima Round Dover Mic	Edible Meats anda proboscidea D/H-On D/H-Off Skinless Fillet crostomus pacificus D/H-On	85 64 23	75-90 55-75 17-26 75-90
Soles Dabs Lima Round Dover Mic	Edible Meats anda proboscidea D/H-On D/H-Off Skinless Fillet crostomus pacificus D/H-On D/H-Off	85 64 23 86 65	75-90 55-75 17-26 75-90 55-65
Soles Dabs Lima Round Dover Mic	Edible Meats Anda proboscidea D/H-On D/H-Off Skinless Fillet Prostomus pacificus D/H-On D/H-Off Skinless Fillet Arophrys vetulus D/H-On	85 64 23 86 65	75-90 55-75 17-26 75-90 55-65
Soles Dabs Lima Round Dover Mice Round English P	Edible Meats anda proboscidea D/H-On D/H-Off Skinless Fillet prostomus pacificus D/H-On D/H-Off Skinless Fillet arophrys vetulus	85 64 23 86 65 29	75-90 55-75 17-26 75-90 55-65 26-32

From	То	Average (%)	Range (%)
Soles			
Flathead	Hippoglossoides elasso	don	
Round	D/H-On	86	80-94
	D/H-Off	67	60-79
	Skinless Fillet	27	25-32
Petrale Ed	ppsetta jordani		
Round	D/H-On	86	75-90
	D/H-Off	66	55-75
	Skinless Fillet	29	28-32
Rex Glypt	ocephalus zachirus		
Round	D/H-On	85	75-90
	D/H-Off	65	55-75
	Skinless Fillet	33	27-37
Rock Lepi	dopsetta bilineata		
Round	D/H-On	87	82-92
	D/H-Off	67	62-78
	Skinless Fillet	28	22-30
Yellowfin	Limanda aspera		
Round	D/H-On	86	76-94
	D/H-Off	69	60-83
	Skinless Fillet	25	16-30
	Surimi	11	
	Kurimi	48	
Squid L	oligo sp.		
Whole	Edible Meats	71	64-73
	Mantle w/Fins	52	45-55
	Mantle w/o Fins	39	36-42
	Tantaglas	17	13-20
	Tentacles	17	13-20

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From	To	Average (%)	Range (%)
Sturgeor	n Acipenser sp.		
Round	D/H-On	85	82-87
	D/H-Off	75	72-78
	Skin-On Fillet	56	50-59
	Skinless Fillet	45	
	Steaks	62	
	Salted D/H-Off	46	
	Smoked D/H-Off	56	
	Roe		8-12
D/H-On	D/H-Off	88	
	Skin-On Fillet	66	
	Skinless Fillet	53	
	Steaks	73	

Trout Salmo sp., Salvelinus sp.

Round	D/H-On	88	
	D/H-Off	69	
	Skin-On Fillet	61	60-65
	Skinless Fillet	55	
	Steaks	60	
	Smoked D/H-Off	54	
D/H-On	D/H-Off	78	
	Skin-On Fillet	69	
	Skinless Fillet	63	
	Steaks	68	
D/H-Off	Skin-On Fillet	88	
	Skinless Fillet	79	
	Steaks	86	

Trout, Farmed

Norwegian			
D/H-On	D/H-Off	78	
	Skin-On Fillet	69	
	Skinless Fillet	63	

From	То	Average (%)	Range (%)
Tuna, Al	bacore Thunnus	alalunga	
Round	D/H-On	90	
	D/H-Off	75	
	Skinless Fillet	35	
	Steaks	65	
D/H-On	D/H-Off	83	
	Skinless Fillet	39	
	Steaks	72	

Turbot, Greenland Reinhardtius hippoglossoides

Round	D/H-On	90	
	D/H-Off	74	70-80
	Skinless Fillet	30	25-35

A Final Note

Every effort has been made to assure that the data presented in this publication are as accurate as possible. Since recovery information is highly dependent on processing techniques and handling systems, frequently conflicting data are generated. If you have contradictory information on any species, please let us know. Send additions and corrections to:

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Recoveries and Yields from Pacific Fish and Shellfish

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