



Pre-Permitting Environmental / Socio-Economic Data Report Series

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# Report Series J- Marine Nearshore Fish and Benthic Invertebrates

## Report J-5 Marine Nearshore Fish and Invertebrate Beach Seine Data Tables 2004-2007

*Submitted to the Alaska Department of Natural Resources August 2009*

*Preliminary data. Do not cite or quote.*

The Pebble Partnership is providing environmental and socio-economic baseline data collected to inform the development of the Pebble Project to state and federal agencies, project stakeholders and the general public prior to project permitting as part of its commitment to full and open disclosure.

A comprehensive Environmental Baseline Document (EBD) will subsequently be prepared and appended to future project permit applications. The EBD will also be made publicly available when complete.

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Report J-5 Table 1							
Total Catch with Beach Seine in August 2004							
Species	Iliamna Bay			Iniskin			Grand Total
	MPS E	MPS 4	MPS 3	MPS 1	MPS 1B	MPS 1C	
Chum salmon ( <i>O. keta</i> )							
Adult			16				16
Juvenile							
Pink salmon ( <i>O. gorbuscha</i> )							
Adult			2				2
Juvenile							
Dolly Varden ( <i>Salvelinus malma</i> )				1			1
Longfin smelt ( <i>Spirinchus thaleichthys</i> )	1			17			18
Pacific herring ( <i>Clupea pallasii</i> )	978	1,517	191	207	2	86	2,981
Sculpin, unid'd. ( <i>Cottidae</i> )			1				1
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	34		2	1	1		38
Tube-nose poacher ( <i>Pallasina barbata</i> )			1				1
Pacific sand lance ( <i>Ammodytes hexapterus</i> )				139		2	141
Starry flounder ( <i>Platichthys stellatus</i> )	2						2
<b>Total Juvenile Salmonids</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Grand Total</b>	<b>1,015</b>	<b>1,517</b>	<b>213</b>	<b>365</b>	<b>3</b>	<b>88</b>	<b>3,201</b>
<b># Reps</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>7</b>

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Report J-5 Table 2							
Mean CPUE with Beach Seine in 2004							
Species	Iliamna Bay			Iniskin			Grand Total
	MPSE	MPS4	MPS3	MPS1	MPS1B	MPS1C	
Chum salmon ( <i>O. keta</i> )							
Adult			8.00				2.29
Juvenile							
Pink salmon ( <i>O. gorbuscha</i> )							
Adult			1.00				0.29
Juvenile							
Dolly Varden ( <i>Salvelinus malma</i> )				1.00			0.14
Longfin smelt ( <i>Spirinchus thaleichthys</i> )	1.00			17.00			2.57
Pacific herring ( <i>Clupea pallasii</i> )	978.00	1,517.00	95.50	207.00	2.00	86.00	425.86
Sculpin, unid'd. ( <i>Cottidae</i> )			0.50				0.14
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	34.00		1.00	1.00	1.00		5.43
Tubenose poacher ( <i>Pallasina barbata</i> )			0.50				0.14
Pacific sand lance ( <i>Ammodytes hexapterus</i> )				139.00		2.00	20.14
Starry flounder ( <i>Platichthys stellatus</i> )	2.00						0.29
<b>Total Juvenile Salmonids</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Grand Total</b>	<b>1,015.00</b>	<b>1,517.00</b>	<b>106.50</b>	<b>365.00</b>	<b>3.00</b>	<b>88.00</b>	<b>457.29</b>
<b># Reps</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>7</b>

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Report J-5 Table 3

## Total Catch with Beach Seine in 2005

Species	Iliamna Bay								Iniskin				Reference (MBB)	Grand Total	
	MBS A1	MBS 1	MBS 3	MBS 4	MPS E	MPS 4	MPS 3	MPS E1	MPS 1	MPS 1A	MPS 1B	MPS 1C			
Chinook salmon ( <i>O. tshawytscha</i> )															
Adult															
Juvenile								1		1	1	1			4
Chum salmon ( <i>O. keta</i> )															
Adult		1						1				10			12
Juvenile	234	29	245	194	410	29	6	6	44	15	23	51	6		1,292
Coho salmon ( <i>O. kisutch</i> )															
Adult						2									2
Juvenile					1				1						2
Sockeye salmon ( <i>O. nerka</i> )															
Adult															
Juvenile	16	4	45	24	35	25	17	7	2	2	3	53	5		238
Pink salmon ( <i>O. gorbuscha</i> )															
Adult								1				16			17
Juvenile	226	65	184	38	41	264	11	14	192	512	128	765	37		2,477
Dolly Varden ( <i>Salvelinus malma</i> )	19	5	1	5	4	13	7		96	2	34	73	132		391
Smelt, unid'd ( <i>Osmeridae</i> )					1		1								2
Longfin smelt ( <i>Spirinchus thaleichthys</i> )		6	4		69	1	8	11				1			100
Surf smelt ( <i>Hypomesus pretiosus</i> )		1	12		8	1	4			1	1				28
Pacific herring ( <i>Clupea pallasii</i> )	330	271	3,550	134	1,340	412	258	223		3	79	222			6,822
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )	1		11	1											13
Sculpin, unid'd. ( <i>Cottidae</i> )		1													2
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	22		5	16	20	4	2	149		2	2	1	16		239
Buffalo sculpin ( <i>Enophrys bison</i> )															
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )							3								3
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )	1						1						1		3
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )							1						1		2
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )	2					7	1				3				13
Tube-nose poacher ( <i>Pallasina barbata</i> )	3				1	1	4								9
Prickleback ( <i>Stichaeidae</i> )			1		1								1		3
Pacific sand lance ( <i>Ammodytes hexapterus</i> )	3	67				3			68	6		1	29		177
Crescent Gunnel ( <i>Pholis laeta</i> )						1		1							2
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )	4					1									5
Dusky snailfish ( <i>Liparis gibbus</i> )															
Flatfish, unid'd ( <i>Pleuronectidae</i> )												1			1
Starry flounder ( <i>Platichthys stellatus</i> )	8		19	43	39	1		72					13		195
Arrowtooth flounder ( <i>Atheresthes stomias</i> )			2						2						4
Halibut ( <i>Hippoglossus stenolepis</i> )					1										1
Rock sole ( <i>Pleuronectes bilineatus</i> )		1													1
Yellowfin sole ( <i>Pleuronectes asper</i> )	2														2
Pacific cod ( <i>Gadus macrocephalus</i> )											1				1
Tomcod ( <i>Microgadus proximus</i> )			1		2								1		4
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )			4									1		1	6
Pacific sandfish ( <i>Trichodon trichodon</i> )														2	2
<b>Total Juvenile Salmonids</b>	<b>476</b>	<b>98</b>	<b>474</b>	<b>256</b>	<b>487</b>	<b>318</b>	<b>34</b>	<b>28</b>	<b>239</b>	<b>530</b>	<b>155</b>	<b>870</b>	<b>48</b>		<b>4,013</b>
<b>Grand Total</b>	<b>871</b>	<b>451</b>	<b>4,084</b>	<b>455</b>	<b>1,973</b>	<b>770</b>	<b>321</b>	<b>485</b>	<b>405</b>	<b>544</b>	<b>275</b>	<b>1,197</b>	<b>244</b>		<b>12,075</b>
<b># Reps</b>	<b>7</b>	<b>6</b>	<b>8</b>	<b>6</b>	<b>6</b>	<b>8</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>5</b>		<b>74</b>

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Report J-5 Table 4														
Mean CPUE with Beach Seine in 2005														
Species	Iliamna Bay								Iniskin				Reference (MBB)	Grand Total
	MBSA1	MBS1	MBS3	MBS4	MPSE	MPS4	MPS3	MPSE1	MPS1	MPS1A	MPS1B	MPS1C		
Chinook salmon ( <i>O. tshawytscha</i> )														
Adult														
Juvenile								0.50		0.20	0.17	0.14		0.05
Chum salmon ( <i>O. keta</i> )														
Adult		0.17					0.33					1.43		0.16
Juvenile	33.43	4.83	30.63	32.33	68.33	3.63	2.00	3.00	8.80	3.00	3.83	7.29	1.20	17.46
Coho salmon ( <i>O. kisutch</i> )														
Adult							0.25							0.03
Juvenile					0.17				0.20					0.03
Sockeye salmon ( <i>O. nerka</i> )														
Adult														
Juvenile	2.29	0.67	5.63	4.00	5.83	3.13	5.67	3.50	0.40	0.40	0.50	7.57	1.00	3.22
Pink salmon ( <i>O. gorbuscha</i> )														
Adult							0.33					2.29		0.23
Juvenile	32.29	10.83	23.00	6.33	6.83	33.00	3.67	7.00	38.40	102.40	21.33	109.29	7.40	33.47
Dolly Varden ( <i>Salvelinus malma</i> )	2.71	0.83	0.13	0.83	0.67	1.63	2.33		19.20	0.40	5.67	10.43	26.40	5.28
Smelt, unid'd ( <i>Osmeridae</i> )					0.17		0.33							0.03
Longfin smelt ( <i>Spirinchus thaleichthys</i> )		1.00	0.50		11.50	0.13	2.67	5.50				0.14		1.35
Surf smelt ( <i>Hypomesus pretiosus</i> )		0.17	1.50		1.33	0.13	1.33			0.20	0.17			0.38
Herring ( <i>Clupea pallasii</i> )	47.14	45.17	443.75	22.33	223.33	51.50	86.00	111.50		0.60	13.17	31.71		92.19
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )	0.14		1.38	0.17										0.18
Sculpin, unid'd. ( <i>Cottidae</i> )		0.17					0.50							0.03
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	3.14		0.63	2.67	3.33	0.50	0.67	74.50		0.40	0.33	0.14	3.20	3.23
Buffalo sculpin ( <i>Enophrys bison</i> )														
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )							0.38							0.04
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )	0.14						0.13						0.20	0.04
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )							0.13						0.20	0.03
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )	0.29						0.88	0.33			0.50			0.18
Tubenose poacher ( <i>Pallasina barbata</i> )	0.43				0.17	0.13	1.33							0.12
Prickleback ( <i>Stichaeidae</i> )			0.13		0.17								0.20	0.04
Pacific sand lance ( <i>Ammodytes hexapterus</i> )	0.43	11.17				0.38			13.60	1.20		0.14	5.80	2.39
Crescent Gunnel ( <i>Pholis laeta</i> )						0.13		0.50						0.03
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )	0.57					0.13								0.07
Dusky snailfish ( <i>Liparis gibbus</i> )														
Flatfish, unid'd ( <i>Pleuronectidae</i> )												0.14		0.01
Starry flounder ( <i>Platichthys stellatus</i> )	1.14		2.38	7.17	6.50	0.13		36.00					2.60	2.64
Arrowtooth flounder ( <i>Atheresthes stomias</i> )			0.25						0.40					0.05
Halibut ( <i>Hippoglossus stenolepis</i> )					0.17									0.01
Rock sole ( <i>Pleuronectes bilineatus</i> )		0.17												0.01
Yellowfin sole ( <i>Pleuronectes asper</i> )	0.29													0.03
Pacific Cod ( <i>Gadus macrocephalus</i> )											0.17			0.01
Tomcod ( <i>Microgadus proximus</i> )			0.13		0.33							0.14		0.05
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )			0.50									0.14	0.20	0.08
Pacific sandfish ( <i>Trichodon trichodon</i> )													0.40	0.03
<b>Total Juvenile Salmonids</b>	<b>68.00</b>	<b>16.33</b>	<b>59.25</b>	<b>42.67</b>	<b>81.17</b>	<b>39.75</b>	<b>11.33</b>	<b>14.00</b>	<b>47.80</b>	<b>106.00</b>	<b>25.83</b>	<b>124.29</b>	<b>9.60</b>	<b>54.23</b>
<b>Grand Total</b>	<b>124.43</b>	<b>75.17</b>	<b>510.50</b>	<b>75.83</b>	<b>328.83</b>	<b>96.25</b>	<b>107.00</b>	<b>242.50</b>	<b>81.00</b>	<b>108.80</b>	<b>45.83</b>	<b>171.00</b>	<b>48.80</b>	<b>163.18</b>
<b># Reps</b>	<b>7</b>	<b>6</b>	<b>8</b>	<b>6</b>	<b>6</b>	<b>8</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>5</b>	<b>74</b>

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Report J-5 Table 5				
Statistical Analyses of Catch at Beach Seine Stations				
Variable	Taxa	Chi-Square	df	Sig.
<b>Month</b>	Chum salmon ( <i>O. keta</i> )	42.4	3	<b>0.00</b>
	Pink salmon ( <i>O. gorbuscha</i> )	19.5	3	<b>0.00</b>
	Sockeye salmon ( <i>O. nerka</i> )	28.8	3	<b>0.00</b>
	Dolly Varden ( <i>Salvelinus malma</i> )	9.1	3	<b>0.03</b>
	Pacific herring ( <i>Clupea pallasii</i> )	21.3	3	<b>0.00</b>
	Pacific sand lance ( <i>Ammodytes hexapterus</i> )	13.8	3	<b>0.00</b>
	Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	2.9	3	0.41
	Starry flounder ( <i>Platichthys stellatus</i> )	2.0	3	0.58
	All fish combined	0.3	3	0.97
			<b>Chi-Square</b>	<b>df</b>
<b>Station</b>	Chum salmon ( <i>O. keta</i> )	9.3	13	0.75
	Pink salmon ( <i>O. gorbuscha</i> )	4.8	13	0.98
	Sockeye salmon ( <i>O. nerka</i> )	7.6	13	0.87
	Dolly Varden ( <i>Salvelinus malma</i> )	17.0	13	0.20
	Pacific herring ( <i>Clupea pallasii</i> )	9.7	13	0.71
	Pacific sand lance ( <i>Ammodytes hexapterus</i> )	24.5	13	<b>0.03</b>
	Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	22.7	13	<b>0.05</b>
	Starry flounder ( <i>Platichthys stellatus</i> )	33.1	13	<b>0.00</b>
	All fish combined	13.6	13	0.40
			<b>Mann-Whitney U</b>	<b>Z-value</b>
<b>Bay</b> <b>Iliamna v.</b> <b>Iniskin</b>	Chum salmon ( <i>O. keta</i> )	537.5	-0.212	0.83
	Pink salmon ( <i>O. gorbuscha</i> )	439.0	-1.455	0.15
	Sockeye salmon ( <i>O. nerka</i> )	435.5	-1.712	0.09
	Dolly Varden ( <i>Salvelinus malma</i> )	342.0	-2.789	<b>0.01</b>
	Pacific herring ( <i>Clupea pallasii</i> )	251.5	-3.941	<b>0.00</b>
	Pacific sand lance ( <i>Ammodytes hexapterus</i> )	472.0	-1.735	0.08
	Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	371.5	-2.540	<b>0.01</b>
	Starry flounder ( <i>Platichthys stellatus</i> )	341.0	-3.084	<b>0.00</b>
	All fish combined	418.0	-1.698	0.09

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Report J-5 Table 6						
Total Catch with Beach Seine by Month in 2005						
Species	May	June	July	August	2005 Total	2004 Total
Chinook salmon ( <i>O. tshawytscha</i> )						
Adult						
Juvenile		1	3		4	
Chum salmon ( <i>O. keta</i> )						
Adult			10	2	12	16
Juvenile	1,245	27	20		1,292	
Coho salmon ( <i>O. kisutch</i> )						
Adult	2				2	
Juvenile	1	1			2	
Sockeye salmon ( <i>O. nerka</i> )						
Adult						
Juvenile	2	142	94		238	
Pink salmon ( <i>O. gorbuscha</i> )						
Adult			16	1	17	2
Juvenile	1,091	651	733	2	2,477	
Dolly Varden ( <i>Salvelinus malma</i> )	42	276	63	10	391	1
Smelt, unid'd ( <i>Osmeridae</i> )		1	1		2	
Longfin smelt ( <i>Spirinchus thaleichthys</i> )	55	1	4	40	100	18
Surf smelt ( <i>Hypomesus pretiosus</i> )	2	1	26		29	
Herring ( <i>Clupea pallasii</i> )	211	785	4,539	1,287	6,822	2,981
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )	5	8			13	
Sculpin, unid'd. ( <i>Cottidae</i> )	1		1		2	1
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	20	33	163	23	239	38
Buffalo sculpin ( <i>Enophrys bison</i> )						
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )			3		3	
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )	1	1	1		3	
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )		1	1		2	
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )		1	12		13	
Tube-nose poacher ( <i>Pallasina barbata</i> )		2	3	4	9	1
Prickleback ( <i>Stichaeidae</i> )		2	1		3	
Pacific sand lance ( <i>Ammodytes hexapterus</i> )	154	23			177	141
Crescent Gunnel ( <i>Pholis laeta</i> )			2		2	
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )	4	1			5	
Dusky snailfish ( <i>Liparis gibbus</i> )						
Flatfish, unid'd ( <i>Pleuronectidae</i> )	1				1	
Starry flounder ( <i>Platichthys stellatus</i> )	31	23	100	41	195	2
Arrowtooth flounder ( <i>Atheresthes stomias</i> )	2	2			4	
Halibut ( <i>Hippoglossus stenolepis</i> )			1		1	
Rock sole ( <i>Pleuronectes bilineatus</i> )		1			1	
Yellowfin sole ( <i>Pleuronectes asper</i> )	2				2	
Pacific Cod ( <i>Gadus macrocephalus</i> )			1		1	
Tomcod ( <i>Microgadus proximus</i> )		3		1	4	
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )		5			5	
Pacific sandfish ( <i>Trichodon trichodon</i> )			2		2	
<b>Total Juvenile Salmonids</b>	<b>2,339</b>	<b>822</b>	<b>850</b>	<b>2</b>	<b>4,013</b>	<b>0</b>
<b>Grand Total</b>	<b>2,872</b>	<b>1,992</b>	<b>5,800</b>	<b>1,411</b>	<b>12,075</b>	<b>3,201</b>
<b>#Reps</b>	<b>24</b>	<b>22</b>	<b>15</b>	<b>13</b>	<b>74</b>	<b>7</b>

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Report J-5 Table 7						
Mean CPUE with Beach Seine by Month in 2005						
Species	May	June	July	August	2005 Total	2004 Total
Chinook salmon ( <i>O. tshawytscha</i> )						
Adult						
Juvenile		0.05	0.20		0.05	
Chum salmon ( <i>O. keta</i> )						
Adult			0.67	0.15	0.16	2.29
Juvenile	51.88	1.23	1.33		17.46	
Coho salmon ( <i>O. kisutch</i> )						
Adult	0.08				0.03	
Juvenile	0.04	0.05			0.03	
Sockeye salmon ( <i>O. nerka</i> )						
Adult						0.29
Juvenile	0.08	6.45	6.27		3.22	
Pink salmon ( <i>O. gorbuscha</i> )						0.14
Adult			1.07	0.08	0.23	
Juvenile	45.46	29.59	48.87	0.15	33.47	2.57
Dolly Varden ( <i>Salvelinus malma</i> )	1.75	12.55	4.20	0.77	5.28	
Smelt, unid'd ( <i>Osmeridae</i> )		0.05	0.07		0.03	
Longfin smelt ( <i>Spirinchus thaleichthys</i> )	2.29	0.05	0.27	3.08	1.35	425.86
Surf smelt ( <i>Hypomesus pretiosus</i> )	0.08	0.05	1.73		0.39	
Herring ( <i>Clupea pallasii</i> )	8.79	35.68	302.60	99.00	92.19	5.43
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )	0.21	0.36			0.18	
Sculpin, unid'd. ( <i>Cottidae</i> )	0.04		0.07		0.03	
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	0.83	1.50	10.87	1.77	3.23	
Buffalo sculpin ( <i>Enophrys bison</i> )						
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )			0.20		0.04	
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )	0.04	0.05	0.07		0.04	0.14
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )		0.05	0.07		0.03	
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )		0.05	0.80		0.18	20.14
Tube-nose poacher ( <i>Pallasina barbata</i> )		0.09	0.20	0.31	0.12	
Prickleback ( <i>Stichaeidae</i> )		0.09	0.07		0.04	
Pacific sand lance ( <i>Ammodytes hexapterus</i> )	6.42	1.05			2.39	
Crescent Gunnel ( <i>Pholis laeta</i> )			0.13		0.03	
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )	0.17	0.05			0.07	0.29
Dusky snailfish ( <i>Liparis gibbus</i> )						
Flatfish, unid'd ( <i>Pleuronectidae</i> )	0.04				0.01	
Starry flounder ( <i>Platichthys stellatus</i> )	1.29	1.05	6.67	3.15	2.64	
Arrowtooth flounder ( <i>Atheresthes stomias</i> )	0.08	0.09			0.05	
Halibut ( <i>Hippoglossus stenolepis</i> )			0.07		0.01	
Rock sole ( <i>Pleuronectes bilineatus</i> )		0.05			0.01	
Yellowfin sole ( <i>Pleuronectes asper</i> )	0.08				0.03	
Pacific Cod ( <i>Gadus macrocephalus</i> )			0.07		0.01	
Tomcod ( <i>Microgadus proximus</i> )		0.14		0.08	0.05	
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )		0.23			0.07	
Pacific sandfish ( <i>Trichodon trichodon</i> )			0.13		0.03	
<b>Total Juvenile Salmonids</b>	<b>97.46</b>	<b>37.36</b>	<b>56.67</b>	<b>0.15</b>	<b>54.23</b>	<b>0.00</b>
<b>Grand Total</b>	<b>119.67</b>	<b>90.55</b>	<b>386.67</b>	<b>108.54</b>	<b>163.18</b>	<b>457.29</b>
<b>#Reps</b>	<b>24</b>	<b>22</b>	<b>15</b>	<b>13</b>	<b>74</b>	<b>7</b>

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Report J-5 Table 8														
Total Catch with Beach Seine in 2006														
Species	Iliamna Bay								Iniskin				Reference (MBB)	Grand Total
	MBSA1	MBS1	MBS3	MBS4	MPSE	MPS4	MPS3	MPSE1	MPS1	MPS1A	MPS1B	MPS1C		
Chinook salmon ( <i>O. tshawytscha</i> )														
Adult														
Juvenile														
Chum salmon ( <i>O. keta</i> )														
Adult														
Juvenile	5	39	160	127	78	75	23	3	1	174	28	24	40	777
Coho salmon ( <i>O. kisutch</i> )														
Adult														
Juvenile														
Sockeye salmon ( <i>O. nerka</i> )														
Adult														
Juvenile														
Pink salmon ( <i>O. gorbuscha</i> )														
Adult														
Juvenile		2	4	16	5	22	3			150	29	15	8	254
Dolly Varden ( <i>Salvelinus malma</i> )	1	1	1		1	4	2		1	1	6	1	13	32
Smelt, unid'd ( <i>Osmeridae</i> )		1	1		10					4				16
Longfin smelt ( <i>Spirinchus thaleichthys</i> )					265									265
Surf smelt ( <i>Hypomesus pretiosus</i> )	1	5	3	23	2	1	5			72		37		149
Herring ( <i>Clupea pallasii</i> )	31	62	163	8	4	29				32	2	4	7	342
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )	2													2
Sculpin, unid'd. ( <i>Cottidae</i> )														
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )			1		30									31
Buffalo sculpin ( <i>Enophrys bison</i> )												1		1
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )		2												2
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )	2	1									1		1	5
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )														
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )														
Tube-nose poacher ( <i>Pallasina barbata</i> )					1									1
Prickleback ( <i>Stichaeidae</i> )														
Pacific sand lance ( <i>Ammodytes hexapterus</i> )	2	236	1			1	4		2	118	5	4	2	375
Crescent Gunnel ( <i>Pholis laeta</i> )														
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )														
Dusky snailfish ( <i>Liparis gibbus</i> )														
Flatfish, unid'd ( <i>Pleuronectidae</i> )		1										1		2
Starry flounder ( <i>Platichthys stellatus</i> )		1	6	1	41		1				1			51
Arrowtooth flounder ( <i>Atheresthes stomias</i> )														
Halibut ( <i>Hippoglossus stenolepis</i> )														
Rock sole ( <i>Pleuronectes bilineatus</i> )														
Yellowfin sole ( <i>Pleuronectes asper</i> )														
Pacific Cod ( <i>Gadus macrocephalus</i> )					1					2	3	2	14	22
Tomcod ( <i>Microgadus proximus</i> )														
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )														
Pacific sandfish ( <i>Trichodon trichodon</i> )		1									1			2
<b>Total Juvenile Salmonids</b>	<b>5</b>	<b>41</b>	<b>164</b>	<b>143</b>	<b>83</b>	<b>97</b>	<b>26</b>	<b>3</b>	<b>1</b>	<b>324</b>	<b>57</b>	<b>39</b>	<b>48</b>	<b>1,031</b>
<b>Grand Total</b>	<b>44</b>	<b>352</b>	<b>340</b>	<b>175</b>	<b>438</b>	<b>132</b>	<b>38</b>	<b>3</b>	<b>4</b>	<b>553</b>	<b>76</b>	<b>89</b>	<b>85</b>	<b>2,329</b>
<b># Reps</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>40</b>

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Report J-5 Table 9														
Mean CPUE with Beach Seine in 2006														
Species	Iliamna Bay								Iniskin				Reference (MBB)	Grand Total
	MBSA1	MBS1	MBS3	MBS4	MPSE	MPS4	MPS3	MPSE1	MPS1	MPS1A	MPS1B	MPS1C		
Chinook salmon ( <i>O. tshawytscha</i> )														
Adult														
Juvenile														
Chum salmon ( <i>O. keta</i> )														
Adult														
Juvenile	1.25	13.00	40.00	127.00	26.00	18.75	4.60	3.00	1.00	58.00	7.00	6.00	13.33	19.43
Coho salmon ( <i>O. kisutch</i> )														
Adult														
Juvenile														
Sockeye salmon ( <i>O. nerka</i> )														
Adult														
Juvenile														
Pink salmon ( <i>O. gorbuscha</i> )														
Adult														
Juvenile		0.67	1.00	16.00	1.67	5.50	0.60			50.00	7.25	3.75	2.67	6.35
Dolly Varden ( <i>Salvelinus malma</i> )	0.25	0.33	0.25		0.33	1.00	0.40		1.00	0.33	1.50	0.25	4.33	0.80
Smelt, unid'd ( <i>Osmeridae</i> )		0.33	0.25		3.33					1.33				0.40
Longfin smelt ( <i>Spirinchus thaleichthys</i> )					88.33									6.63
Surf smelt ( <i>Hypomesus pretiosus</i> )	0.25	1.67	0.75	23.00	0.67	0.25	1.00			24.00		9.25		3.73
Herring ( <i>Clupea pallasii</i> )	7.75	20.67	40.75	8.00	1.33	7.25				10.67	0.50	1.00	2.33	8.55
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )	0.50													0.05
Sculpin, unid'd. ( <i>Cottidae</i> )														
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )			0.25		10.00									0.78
Buffalo sculpin ( <i>Enophrys bison</i> )												0.25		0.03
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )		0.67												0.05
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )	0.50	0.33									0.25		0.33	0.13
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )														
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )														
Tube-nose poacher ( <i>Pallasina barbata</i> )					0.33									0.03
Prickleback ( <i>Stichaeidae</i> )														
Pacific sand lance ( <i>Ammodytes hexapterus</i> )	0.50	78.67	0.25			0.25	0.80		2.00	39.33	1.25	1.00	0.67	9.38
Crescent Gunnel ( <i>Pholis laeta</i> )														
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )														
Dusky snailfish ( <i>Liparis gibbus</i> )														
Flatfish, unid'd ( <i>Pleuronectidae</i> )		0.33										0.25		0.05
Starry flounder ( <i>Platichthys stellatus</i> )		0.33	1.50	1.00	13.67		0.20				0.25			1.28
Arrowtooth flounder ( <i>Atheresthes stomias</i> )														
Halibut ( <i>Hippoglossus stenolepis</i> )														
Rock sole ( <i>Pleuronectes bilineatus</i> )														
Yellowfin sole ( <i>Pleuronectes asper</i> )														
Pacific Cod ( <i>Gadus macrocephalus</i> )					0.33					0.67	0.75	0.50	4.67	0.55
Tomcod ( <i>Microgadus proximus</i> )														
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )														
Pacific sandfish ( <i>Trichodon trichodon</i> )											0.25			0.05
<b>Total Juvenile Salmonids</b>	<b>1.25</b>	<b>13.67</b>	<b>41.00</b>	<b>143.00</b>	<b>27.67</b>	<b>24.25</b>	<b>5.20</b>	<b>3.00</b>	<b>1.00</b>	<b>108.00</b>	<b>14.25</b>	<b>9.75</b>	<b>16.00</b>	<b>25.78</b>
<b>Grand Total</b>	<b>11.00</b>	<b>117.33</b>	<b>85.00</b>	<b>175.00</b>	<b>146.00</b>	<b>33.00</b>	<b>7.60</b>	<b>3.00</b>	<b>4.00</b>	<b>184.33</b>	<b>19.00</b>	<b>22.25</b>	<b>28.33</b>	<b>58.23</b>
<b># Reps</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>40</b>

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Report J-5 Table 10					
Total Catch with Beach Seine by Month in 2006					
Species	April	May	September	2006 Total	2005 Total
Chinook salmon ( <i>O. tshawytscha</i> )					
Adult					
Juvenile					4
Chum salmon ( <i>O. keta</i> )					
Adult					12
Juvenile	212	565		777	1,292
Coho salmon ( <i>O. kisutch</i> )					
Adult					2
Juvenile					2
Sockeye salmon ( <i>O. nerka</i> )					
Adult					
Juvenile					238
Pink salmon ( <i>O. gorbuscha</i> )					
Adult					17
Juvenile	26	228		254	2,477
Dolly Varden ( <i>Salvelinus malma</i> )		17	15	32	391
Smelt, unid'd ( <i>Osmeridae</i> )	5	10	1	16	2
Longfin smelt ( <i>Spirinchus thaleichthys</i> )			265	265	100
Surf smelt ( <i>Hypomesus pretiosus</i> )	107	33	9	149	28
Herring ( <i>Clupea pallasii</i> )		9	333	342	6,822
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )		2		2	13
Sculpin, unid'd. ( <i>Cottidae</i> )					2
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )		16	15	31	239
Buffalo sculpin ( <i>Enophrys bison</i> )		1		1	
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )			2	2	3
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )			5	5	3
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )					2
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )					13
Tubenose poacher ( <i>Pallasina barbata</i> )		1		1	9
Prickleback ( <i>Stichaeidae</i> )					3
Pacific sand lance ( <i>Ammodytes hexapterus</i> )	7	23	345	375	177
Crescent Gunnel ( <i>Pholis laeta</i> )					2
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )					5
Dusky snailfish ( <i>Liparis gibbus</i> )					
Flatfish, unid'd ( <i>Pleuronectidae</i> )		2		2	1
Starry flounder ( <i>Platichthys stellatus</i> )		26	25	51	195
Arrowtooth flounder ( <i>Atheresthes stomias</i> )					4
Halibut ( <i>Hippoglossus stenolepis</i> )					1
Rock sole ( <i>Pleuronectes bilineatus</i> )					1
Yellowfin sole ( <i>Pleuronectes asper</i> )					2
Pacific Cod ( <i>Gadus macrocephalus</i> )			22	22	1
Tomcod ( <i>Microgadus proximus</i> )					4
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )					6
Pacific sandfish ( <i>Trichodon trichodon</i> )			2	2	2
<b>Total Juvenile Salmonids</b>	<b>238</b>	<b>793</b>	<b>0</b>	<b>1,031</b>	<b>4,013</b>
<b>Grand Total</b>	<b>357</b>	<b>933</b>	<b>1,039</b>	<b>2,329</b>	<b>12,075</b>
<b>#Reps</b>	<b>12</b>	<b>18</b>	<b>10</b>	<b>40</b>	<b>74</b>

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Report J-5 Table 11					
Mean CPUE with Beach Seine by Month in 2006					
Species	April	May	September	2006 Total	2005 Total
Chinook salmon ( <i>O. tshawytscha</i> )					
Adult					
Juvenile					0.05
Chum salmon ( <i>O. keta</i> )					
Adult					0.16
Juvenile	17.67	31.39		19.43	17.46
Coho salmon ( <i>O. kisutch</i> )					
Adult					0.03
Juvenile					0.03
Sockeye salmon ( <i>O. nerka</i> )					
Adult					
Juvenile					3.22
Pink salmon ( <i>O. gorbuscha</i> )					
Adult					0.23
Juvenile	2.17	12.67		6.35	33.47
Dolly Varden ( <i>Salvelinus malma</i> )		0.94	1.50	0.80	5.28
Smelt, unid'd ( <i>Osmeridae</i> )	0.42	0.56	0.10	0.40	0.03
Longfin smelt ( <i>Spirinchus thaleichthys</i> )			26.50	6.63	1.35
Surf smelt ( <i>Hypomesus pretiosus</i> )	8.92	1.83	0.90	3.73	0.38
Herring ( <i>Clupea pallasii</i> )		0.50	33.30	8.55	92.19
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )		0.11		0.05	0.18
Sculpin, unid'd. ( <i>Cottidae</i> )					0.03
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )		0.89	1.50	0.78	3.23
Buffalo sculpin ( <i>Enophrys bison</i> )		0.06		0.03	
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )			0.20	0.05	0.04
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )			0.50	0.13	0.04
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )					0.03
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )					0.18
Tube-nose poacher ( <i>Pallasina barbata</i> )		0.06		0.03	0.12
Prickleback ( <i>Stichaeidae</i> )					0.04
Pacific sand lance ( <i>Ammodytes hexapterus</i> )	0.58	1.28	34.50	9.38	2.39
Crescent Gunnel ( <i>Pholis laeta</i> )					0.03
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )					0.07
Dusky snailfish ( <i>Liparis gibbus</i> )					
Flatfish, unid'd ( <i>Pleuronectidae</i> )		0.11		0.05	0.01
Starry flounder ( <i>Platichthys stellatus</i> )		1.44	2.50	1.28	2.64
Arrowtooth flounder ( <i>Atheresthes stomias</i> )					0.05
Halibut ( <i>Hippoglossus stenolepis</i> )					0.01
Rock sole ( <i>Pleuronectes bilineatus</i> )					0.01
Yellowfin sole ( <i>Pleuronectes asper</i> )					0.03
Pacific Cod ( <i>Gadus macrocephalus</i> )			2.20	0.55	0.01
Tomcod ( <i>Microgadus proximus</i> )					0.05
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )					0.08
Pacific sandfish ( <i>Trichodon trichodon</i> )			0.20	0.05	0.03
<b>Total Juvenile Salmonids</b>	<b>19.83</b>	<b>44.06</b>	<b>0.00</b>	<b>25.78</b>	<b>54.23</b>
<b>Grand Total</b>	<b>29.75</b>	<b>51.83</b>	<b>103.90</b>	<b>58.23</b>	<b>163.18</b>
<b>#Reps</b>	<b>12</b>	<b>18</b>	<b>10</b>	<b>40</b>	<b>74</b>

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Report J-5 Table 12															
Total Catch with 120-Foot Beach Seine in 2007															
Species	Iliamna Bay									Iniskin				Reference (MBB)	Grand Total
	MBS1	MBS1A	MBS3	MBS3A	MBS4	MPSE	MPS4	MPS3	MPSE1	MPS1	MPS1A	MPS1B	MPS1C		
Chinook salmon ( <i>O. tshawytscha</i> )															
Adult															0
Juvenile															0
Chum salmon ( <i>O. keta</i> )															
Adult															0
Juvenile															0
Coho salmon ( <i>O. kisutch</i> )															
Adult															0
Juvenile						1									1
Sockeye salmon ( <i>O. nerka</i> )															
Adult															0
Juvenile															0
Pink salmon ( <i>O. gorbuscha</i> )															
Adult															0
Juvenile		3					1								4
Dolly Varden ( <i>Salvelinus malma</i> )		1	1						1					5	8
Smelt, unid'd ( <i>Osmeridae</i> )															0
Longfin smelt ( <i>Spirinchus thaleichthys</i> )						18									18
Surf smelt ( <i>Hypomesus pretiosus</i> )							5								5
Herring ( <i>Clupea pallasii</i> )	296	12	2316		4	54	180		206	14		255		1001	4338
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )															0
Sculpin, unid'd. ( <i>Cottidae</i> )															0
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )			3		14	41									58
Buffalo sculpin ( <i>Enophrys bison</i> )															0
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )															0
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )							1							1	2
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )															0
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )															0
Tube-nose poacher ( <i>Pallasina barbata</i> )							2								2
Prickleback ( <i>Stichaeidae</i> )															0
Pacific sand lance ( <i>Ammodytes hexapterus</i> )	30	2	118						1	1		95	13	104	364
Crescent Gunnel ( <i>Pholis laeta</i> )															0
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )															0
Dusky snailfish ( <i>Liparis gibbus</i> )															0
Flatfish, unid'd ( <i>Pleuronectidae</i> )															0
Starry flounder ( <i>Platichthys stellatus</i> )			1		34	6									41
Arrowtooth flounder ( <i>Atheresthes stomias</i> )															0
Halibut ( <i>Hippoglossus stenolepis</i> )															0
Rock sole ( <i>Pleuronectes bilineatus</i> )															0
Yellowfin sole ( <i>Pleuronectes asper</i> )															0
Pacific Cod ( <i>Gadus macrocephalus</i> )															0
Tomcod ( <i>Microgadus proximus</i> )															0
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )															0
Pacific sandfish ( <i>Trichodon trichodon</i> )															0
<b>Total Juvenile Salmonids</b>	<b>0</b>	<b>3</b>	<b>0</b>		<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>
<b>Grand Total</b>	<b>326</b>	<b>18</b>	<b>2,439</b>		<b>52</b>	<b>120</b>	<b>184</b>	<b>5</b>	<b>208</b>	<b>15</b>		<b>350</b>	<b>13</b>	<b>1,111</b>	<b>4,841</b>
<b># Reps</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>20</b>

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Report J-5 Table 13															
Mean CPUE with 120-Foot Beach Seine in 2007															
Species	Iliamna Bay									Iniskin				Reference (MBB)	Grand Total
	MBS1	MBS1A	MBS3	MBS3A	MBS4	MPSE	MPS4	MPS3	MPSE1	MPS1	MPS1A	MPS1B	MPS1C		
Chinook salmon ( <i>O. tshawytscha</i> )															
Adult															
Juvenile															
Chum salmon ( <i>O. keta</i> )															
Adult															
Juvenile															
Coho salmon ( <i>O. kisutch</i> )															
Adult															
Juvenile						0.50									0.05
Sockeye salmon ( <i>O. nerka</i> )															
Adult															
Juvenile															
Pink salmon ( <i>O. gorbuscha</i> )															
Adult															
Juvenile		1.50					0.50								0.20
Dolly Varden ( <i>Salvelinus malma</i> )		0.50	0.50							1.00				2.50	0.40
Smelt, unid'd ( <i>Osmeridae</i> )															
Longfin smelt ( <i>Spirinchus thaleichthys</i> )						9.00									0.90
Surf smelt ( <i>Hypomesus pretiosus</i> )								5.00							0.25
Herring ( <i>Clupea pallasii</i> )	148.00	6.00	1158.00		2.00	27.00	90.00		206.00	14.00		127.50		500.50	216.90
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )															
Sculpin, unid'd. ( <i>Cottidae</i> )															
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )			1.50		7.00	20.50									2.90
Buffalo sculpin ( <i>Enophrys bison</i> )															
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )															
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )								0.50						0.50	0.10
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )															
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )															
Tube-nose poacher ( <i>Pallasina barbata</i> )								1.00							0.10
Prickleback ( <i>Stichaeidae</i> )															
Pacific sand lance ( <i>Ammodytes hexapterus</i> )	15.00	1.00	59.00							1.00	1.00		47.50	13.00	52.00
Crescent Gunnel ( <i>Pholis laeta</i> )															
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )															
Dusky snailfish ( <i>Liparis gibbus</i> )															
Flatfish, unid'd ( <i>Pleuronectidae</i> )															
Starry flounder ( <i>Platichthys stellatus</i> )			0.50		17.00	3.00									2.05
Arrowtooth flounder ( <i>Atheresthes stomias</i> )															
Halibut ( <i>Hippoglossus stenolepis</i> )															
Rock sole ( <i>Pleuronectes bilineatus</i> )															
Yellowfin sole ( <i>Pleuronectes asper</i> )															
Pacific Cod ( <i>Gadus macrocephalus</i> )															
Tomcod ( <i>Microgadus proximus</i> )															
Sturgeon poacher ( <i>Podotrichus acipenserinus</i> )															
Pacific sandfish ( <i>Trichodon trichodon</i> )															
<b>Total Juvenile Salmonids</b>	<b>0.00</b>	<b>1.50</b>	<b>0.00</b>		<b>0.00</b>	<b>0.50</b>	<b>0.50</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.25</b>
<b>Grand Total</b>	<b>163.00</b>	<b>9.00</b>	<b>1219.50</b>		<b>26.00</b>	<b>60.00</b>	<b>92.00</b>	<b>5.00</b>	<b>208.00</b>	<b>15.00</b>		<b>175.00</b>	<b>13.00</b>	<b>555.50</b>	<b>242.05</b>
<b># Reps</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>20</b>

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Report J-5 Table 14				
Mean CPUE with 120-foot Beach Seine by Month in 2007				
Species	September	October	2007 Total	2006 Total
Chinook salmon ( <i>O. tshawytscha</i> )				
Adult				
Juvenile				
Chum salmon ( <i>O. keta</i> )				
Adult				
Juvenile				19.43
Coho salmon ( <i>O. kisutch</i> )				
Adult				
Juvenile		0.08	0.05	
Sockeye salmon ( <i>O. nerka</i> )				
Adult				
Juvenile				
Pink salmon ( <i>O. gorbuscha</i> )				
Adult				
Juvenile	0.50		0.20	6.35
Dolly Varden ( <i>Salvelinus malma</i> )	0.88	0.08	0.40	0.80
Smelt, unid'd ( <i>Osmeridae</i> )				0.40
Longfin smelt ( <i>Spirinchus thaleichthys</i> )	2.25		0.90	6.63
Surf smelt ( <i>Hypomesus pretiosus</i> )		0.42	0.25	3.73
Herring ( <i>Clupea pallasii</i> )	491.88	33.58	216.90	8.55
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )				0.05
Sculpin, unid'd. ( <i>Cottidae</i> )				
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	7.00	0.17	2.90	0.78
Buffalo sculpin ( <i>Enophrys bison</i> )				0.03
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )				0.05
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )	0.13	0.08	0.10	0.13
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )				
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )				
Tube-nose poacher ( <i>Pallasina barbata</i> )	0.25		0.10	0.03
Prickleback ( <i>Stichaeidae</i> )				
Pacific sand lance ( <i>Ammodytes hexapterus</i> )	36.50	6.00	18.20	9.38
Crescent Gunnel ( <i>Pholis laeta</i> )				
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )				
Dusky snailfish ( <i>Liparis gibbus</i> )				
Flatfish, unid'd ( <i>Pleuronectidae</i> )				0.05
Starry flounder ( <i>Platichthys stellatus</i> )	5.00	0.08	2.05	1.28
Arrowtooth flounder ( <i>Atheresthes stomias</i> )				
Halibut ( <i>Hippoglossus stenolepis</i> )				
Rock sole ( <i>Pleuronectes bilineatus</i> )				
Yellowfin sole ( <i>Pleuronectes asper</i> )				
Pacific Cod ( <i>Gadus macrocephalus</i> )				0.55
Tomcod ( <i>Microgadus proximus</i> )				
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )				
Pacific sandfish ( <i>Trichodon trichodon</i> )				0.05
<b>Total Juvenile Salmonids</b>	<b>0.50</b>	<b>0.08</b>	<b>0.25</b>	<b>25.78</b>
<b>Grand Total</b>	<b>544.38</b>	<b>40.50</b>	<b>242.05</b>	<b>58.23</b>
<b>#Reps</b>	<b>8</b>	<b>12</b>	<b>20</b>	<b>40</b>

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Report J-5 Table 15			
Total Catch with 30-Foot Beach Seine in 2007			
Species	Iliamna Bay	Iniskin	Grand Total
	MACL	MSLF	
Chinook salmon ( <i>O. tshawytscha</i> )			
Adult			
Juvenile			
Chum salmon ( <i>O. keta</i> )			
Adult			
Juvenile			
Coho salmon ( <i>O. kisutch</i> )			
Adult			
Juvenile	4		4
Sockeye salmon ( <i>O. nerka</i> )			
Adult			
Juvenile			
Pink salmon ( <i>O. gorbuscha</i> )			
Adult			
Juvenile			
Dolly Varden ( <i>Salvelinus malma</i> )		4	4
Smelt, unid'd ( <i>Osmeridae</i> )		5	5
Longfin smelt ( <i>Spirinchus thaleichthys</i> )			
Surf smelt ( <i>Hypomesus pretiosus</i> )			
Herring ( <i>Clupea pallasii</i> )		208	208
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )	419		419
Sculpin, unid'd. ( <i>Cottidae</i> )		1	1
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )			
Buffalo sculpin ( <i>Enophrys bison</i> )	93	4	97
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )			
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )			
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )			
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )			
Tube-nose poacher ( <i>Pallasina barbata</i> )		1	1
Snake Prickleback ( <i>Lumpenus sagitta</i> )		1	1
Pacific sand lance ( <i>Ammodytes hexapterus</i> )			
Crescent Gunnel ( <i>Pholis laeta</i> )			
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )			
Dusky snailfish ( <i>Liparis gibbus</i> )			
Flatfish, unid'd ( <i>Pleuronectidae</i> )			
Starry flounder ( <i>Platichthys stellatus</i> )	34	12	46
Arrowtooth flounder ( <i>Atheresthes stomias</i> )			
Halibut ( <i>Hippoglossus stenolepis</i> )			
Rock sole ( <i>Pleuronectes bilineatus</i> )			
Yellowfin sole ( <i>Pleuronectes asper</i> )			
Pacific Cod ( <i>Gadus macrocephalus</i> )			
Tomcod ( <i>Microgadus proximus</i> )			
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )			
Pacific sandfish ( <i>Trichodon trichodon</i> )			
<b>Total Juvenile Salmonids</b>	<b>4</b>	<b>0</b>	<b>4</b>
<b>Grand Total</b>	<b>550</b>	<b>236</b>	<b>786</b>
<b># Reps</b>	<b>2</b>	<b>1</b>	<b>3</b>

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Report J-5 Table 16			
Mean CPUE with 30-Foot Beach Seine in 2007			
Species	Iliamna Bay	Iniskin	Grand Total
	MACL	MSLF	
Chinook salmon ( <i>O. tshawytscha</i> )			
Adult			
Juvenile			
Chum salmon ( <i>O. keta</i> )			
Adult			
Juvenile			
Coho salmon ( <i>O. kisutch</i> )			
Adult			
Juvenile	2.00		1.33
Sockeye salmon ( <i>O. nerka</i> )			
Adult			
Juvenile			
Pink salmon ( <i>O. gorbuscha</i> )			
Adult			
Juvenile			
Dolly Varden ( <i>Salvelinus malma</i> )		4.00	1.33
Smelt, unid'd ( <i>Osmeridae</i> )		5.00	1.67
Longfin smelt ( <i>Spirinchus thaleichthys</i> )			
Surf smelt ( <i>Hypomesus pretiosus</i> )			
Herring ( <i>Clupea pallasii</i> )		208.00	69.33
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )	209.50		139.67
Ninespine stickleback ( <i>Pungitius pungitius</i> )		1.00	0.33
Sculpin, unid'd. ( <i>Cottidae</i> )			
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	46.50	4.00	32.33
Buffalo sculpin ( <i>Enophrys bison</i> )			
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )			
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )			
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )			
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )			
Tube-nose poacher ( <i>Pallasina barbata</i> )		1.00	0.33
Snake prickleback ( <i>Lumpenus sagitta</i> )		1.00	0.33
Pacific sand lance ( <i>Ammodytes hexapterus</i> )			
Crescent Gunnel ( <i>Pholis laeta</i> )			
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )			
Dusky snailfish ( <i>Liparis gibbus</i> )			
Flatfish, unid'd ( <i>Pleuronectidae</i> )			
Starry flounder ( <i>Platichthys stellatus</i> )	17.00	12.00	15.33
Arrowtooth flounder ( <i>Atheresthes stomias</i> )			
Halibut ( <i>Hippoglossus stenolepis</i> )			
Rock sole ( <i>Pleuronectes bilineatus</i> )			
Yellowfin sole ( <i>Pleuronectes asper</i> )			
Pacific Cod ( <i>Gadus macrocephalus</i> )			
Tomcod ( <i>Microgadus proximus</i> )			
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )			
Pacific sandfish ( <i>Trichodon trichodon</i> )			
<b>Total Juvenile Salmonids</b>	<b>2.00</b>	<b>0.00</b>	<b>1.33</b>
<b>Grand Total</b>	<b>275.00</b>	<b>236.00</b>	<b>262.00</b>
<b># Reps</b>	<b>2</b>	<b>1</b>	<b>3</b>

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Report J-5 Table 17			
Mean CPUE with 30-foot Beach Seine by Month in 2007			
Species	September	October	2007 Total
Chinook salmon ( <i>O. tshawytscha</i> )			
Adult			
Juvenile			
Chum salmon ( <i>O. keta</i> )			
Adult			
Juvenile			
Coho salmon ( <i>O. kisutch</i> )			
Adult			
Juvenile	2.00		1.33
Sockeye salmon ( <i>O. nerka</i> )			
Adult			
Juvenile			
Pink salmon ( <i>O. gorbuscha</i> )			
Adult			
Juvenile			
Dolly Varden ( <i>Salvelinus malma</i> )	2.00		1.33
Smelt, unid'd ( <i>Osmeridae</i> )	2.50		1.67
Longfin smelt ( <i>Spirinchus thaleichthys</i> )			
Surf smelt ( <i>Hypomesus pretiosus</i> )			
Herring ( <i>Clupea pallasii</i> )	104.00		69.33
Threespine stickleback ( <i>Gasterosteus aculeatus</i> )	206.50	6.00	139.67
Ninespine stickleback ( <i>Pungitius pungitius</i> )	0.50		0.33
Sculpin, unid'd. ( <i>Cottidae</i> )			
Pacific staghorn sculpin ( <i>Leptocottus armatus</i> )	24.00	49.00	32.33
Buffalo sculpin ( <i>Enophrys bison</i> )			
Silverspotted sculpin ( <i>Blepsias cirrhosus</i> )			
Great sculpin ( <i>Myoxocephalus polyacanthocephalus</i> )			
Red Irish lord ( <i>Hemilepidotus hemilepidotus</i> )			
Whitespotted greenling ( <i>Hexagrammos stelleri</i> )			
Tube-nose poacher ( <i>Pallasina barbata</i> )	0.50		0.33
Snake prickleback ( <i>Lumpenus sagitta</i> )	0.50		0.33
Pacific sand lance ( <i>Ammodytes hexapterus</i> )			
Crescent Gunnel ( <i>Pholis laeta</i> )			
Gunnel unid'd ( <i>Pholidae/Stichaeidae</i> )			
Dusky snailfish ( <i>Liparis gibbus</i> )			
Flatfish, unid'd ( <i>Pleuronectidae</i> )			
Starry flounder ( <i>Platichthys stellatus</i> )	11.00	24.00	15.33
Arrowtooth flounder ( <i>Atheresthes stomias</i> )			
Halibut ( <i>Hippoglossus stenolepis</i> )			
Rock sole ( <i>Pleuronectes bilineatus</i> )			
Yellowfin sole ( <i>Pleuronectes asper</i> )			
Pacific Cod ( <i>Gadus macrocephalus</i> )			
Tomcod ( <i>Microgadus proximus</i> )			
Sturgeon poacher ( <i>Podothecus acipenserinus</i> )			
Pacific sandfish ( <i>Trichodon trichodon</i> )			
<b>Total Juvenile Salmonids</b>	<b>2.00</b>	<b>0.00</b>	<b>1.33</b>
<b>Grand Total</b>	<b>353.50</b>	<b>79.00</b>	<b>262.00</b>
<b>#Reps</b>	<b>2</b>	<b>1</b>	<b>3</b>

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