

APPENDIX A

Haul and Catch Information

Appendix A contains listings of station data and catch data for all hauls from the 1999 West Coast upper continental slope bottom trawl survey of the International North Pacific Fisheries Commission (INPFC) U.S.-Vancouver, Columbia, Eureka, Monterey, and Conception statistical areas. Depths are reported in meters, distances fished in kilometers, and catch weights are in kilograms. Geodetic positions are displayed in the table as degrees and decimal minutes (e.g., 35°52.11 corresponds to 35°52.11'N latitude). Only catches from hauls with a performance code greater than or equal to 0 were used for data analyses. Performance codes that appear in this appendix are as follows:

<u>Code</u>	<u>Explanation</u>
-5	Unsatisfactory, unspecified gear performance problem
-4	Unsatisfactory, caught unspecified object
-2	Unsatisfactory, unspecified gear damage
0	Good performance
2	Satisfactory, unspecified gear damage
6	Satisfactory, unspecified problems

Table A1.--Station and catch data for the NOAA ship *Miller Freeman* during the 1999 West Coast upper continental slope bottom trawl survey.

Haul number	1	2	3	4	5	6	7	8	9	10
Start date and time	10/18 19:28	10/19 0:26	10/19 4:51	10/19 9:12	10/19 13:36	10/19 16:01	10/19 19:34	10/19 22:00	10/20 0:42	10/20 3:28
Start latitude	3619.3	3552.1	3525.8	3502.3	3432.3	3429.5	3428.8	3433.5	3432.2	3431.8
Start longitude	12206.6	12131.9	12111.2	12054.2	12047.4	12048.5	12051.4	12101.6	12106.4	12115.1
End latitude	3620.4	3553.1	3526.8	3503.5	3433.1	3430.6	3429.8	3434.5	3432.5	3432.8
End longitude	12207.2	12132.6	12112.1	12054.4	12048.2	12049.1	12052.1	12102.4	12107.7	12115.7
Bottom depth (m)	418	343	336	198	252	471	592	800	955	1115
Duration (h)	0.53	0.50	0.51	0.51	0.44	0.53	0.51	0.51	0.52	0.51
Distance fished (km)	2.31	2.20	2.21	2.21	1.92	2.19	2.25	2.24	2.21	2.22
Net width (m)	15.492	16.107	14.918	15.472	15.866	17.185	16.488	15.317	16.948	17.121
Net measured?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish						0.2	0.7	2.1	1.8	0.3
Brown catshark		15.9	5.7			6.3	6.8	6.1		14.2
Spiny dogfish	14.5	2.3	2.1	4.0						
Skates	83.3	110.6	127.5	51.1	14.8	74.8	7.0	1.9	0.3	13.8
Other elasmobranchs	30.9	69.4	17.5	11.0	47.4	5.3	11.7			
Arrowtooth flounder										
Petrale sole	9.9	1.6		1.0	3.3					
Dover sole	670.8	74.2	36.0	2.7	30.9	53.2	129.4	297.4	22.2	21.8
Deepsea sole	6.3							4.7	1.3	0.6
Rex sole	165.9	31.2	8.2	0.3	31.4	0.9				
Other flatfish		1.9	2.9	8.4	27.4					
Sablefish	12.0	11.7	6.7	41.8	21.6	21.7	28.4	11.2	37.8	15.1
Pacific grenadier									1.3	263.8
Giant grenadier								4.1	11.9	3.6
Other grenadiers	0.1					0.1		0.5	0.2	
Pacific flatnose								1.0	0.6	6.2
Slickheads							0.1	12.1	18.4	14.8
Eelpouts	58.3	10.3	13.9	11.3	21.9	13.4	0.0	28.2	2.8	2.2
Snailfish		0.2	0.1		0.1	0.1	0.4	1.0		
Pacific hake	234.5	262.6	185.7	329.0	254.9	65.8	0.4		0.8	1.2
Other roundfish	0.1	2.9		0.2	0.3	0.1	0.9	1.6	0.7	1.7
Shortspine thornyhead	11.2	7.3			4.0	58.5	121.3	29.2	83.4	6.4
Longspine thornyhead	64.4					36.9	76.1	152.9	105.8	10.9
Rougheye rockfish										
Pacific ocean perch										
Aurora rockfish	35.3	2.3	1.6	0.2		37.5				
Darkblotched rockfish										
Splitnose rockfish	156.3	136.3	137.7	2.0	43.5					
Greenstriped rockfish					0.1					
Other rockfish	121.4	7.5	12.0	0.1	115.3	7.9				
True tanner crab							0.9	0.2		0.4
Sea urchins	162.9	222.1	416.0	197.6	374.3	1,451.1	214.0	108.6		0.4
Sea stars	1.8	0.1	0.0		0.2	0.0	4.8	2.2	5.1	7.5
Other invertebrates	90.7	3.6	9.5	28.5	9.4	26.3	17.3	13.0	25.2	20.4
Total catch weight	1,930.6	974.0	983.1	689.1	1,000.4	1,860.0	620.1	677.9	319.6	405.2

Table A1.--Continued.

Haul number	11	12	13	14	15	16	17	18	19	20
Start date and time	10/20 6:26	10/20 10:18	10/20 12:57	10/20 15:56	10/20 19:00	10/20 23:38	10/21 2:35	10/21 4:32	10/21 7:12	10/21 11:01
Start latitude	3431.0	3453.7	3453.1	3457.1	3459.2	3459.0	3457.3	3500.4	3500.3	3502.6
Start longitude	12110.9	12130.2	12132.0	12133.6	12136.0	12126.9	12126.0	12125.2	12115.6	12104.3
End latitude	3431.2	3454.8	3454.4	3458.4	3500.3	3459.1	3458.4	3501.4	3501.4	3503.8
End longitude	12112.2	12130.6	12132.3	12133.2	12135.3	12127.0	12126.7	12125.8	12116.2	12104.3
Bottom depth (m)	1047	683	865	971	1268	486	468	427	596	489
Duration (h)	0.48	0.52	0.55	0.55	0.52	0.23	0.51	0.51	0.53	0.52
Distance fished (km)	1.95	2.24	2.40	2.44	2.31	1.07	2.22	2.25	2.33	2.22
Net width (m)	14.602	16.693	16.237	16.745	17.329	16.724	16.511	16.315	17.273	17.457
Net measured?	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
Performance	0	0	0	0	0	-2.8	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish	0.4	0.3	1.8	1.2	0.3	0.1			0.8	0.2
Brown catshark		3.5	4.3	5.2	1.8				0.8	11.6
Spiny dogfish										
Skates	3.1		6.7	17.8	10.7		25.0	5.3	1.6	50.5
Other elasmobranchs					0.9			0.0	2.1	16.7
Arrowtooth flounder										
Petrale sole										
Dover sole	4.5	223.5	100.4	118.8	14.6	42.7	198.7	150.2	92.3	108.6
Deepsea sole	5.0	2.5	16.2	10.0	0.7					
Rex sole						11.3	26.8	25.7		31.9
Other flatfish								0.3		0.0
Sablefish	6.9	58.0	131.8	94.7	7.9	4.7	49.9	4.4	5.6	12.1
Pacific grenadier	25.4			8.8	170.9					
Giant grenadier	18.4	0.7	7.1	53.0	54.7		0.5			
Other grenadiers	0.0									0.3
Pacific flatnose	2.0	0.4	0.3	0.4	15.6					
Slickheads	6.7	32.3	24.5	60.5	14.4				0.2	
Eelpouts	3.1	0.7	5.2	12.7	5.4		25.2	10.0	0.6	15.4
Snailfish	0.0	0.5	0.2	0.2	0.0				0.0	
Pacific hake			0.8	0.5		9.7	39.4	46.9	17.0	112.6
Other roundfish	1.0	1.7	0.7	1.2	8.6	0.0	0.0	0.1	0.5	0.3
Shortspine thornyhead	12.5	25.7	40.2	48.5	5.1	7.8	19.3	13.6	21.3	22.1
Longspine thornyhead	33.3	242.9	271.7	96.9	11.3	10.0	46.5	48.5	57.8	36.5
Rougheye rockfish										
Pacific ocean perch										
Aurora rockfish						3.6	98.8	6.4		26.8
Darkblotched rockfish										
Splitnose rockfish								0.2		
Greenstriped rockfish										
Other rockfish							25.1	40.6		
True tanner crab	0.4	13.5	2.9	1.8	0.3					
Sea urchins	0.0	54.4	2.2	0.4		10.9	0.8	101.3	0.2	844.7
Sea stars	8.4	17.2	12.1	11.2	6.8	1.2	1.0	18.1	63.4	78.1
Other invertebrates	11.0	22.3	105.2	36.8	560.1	1.7	35.4	11.9	5.2	26.5
Total catch weight	142.1	700.1	734.3	580.4	890.1	103.5	592.5	483.6	269.4	1,394.9

Table A1.--Continued.

Haul number	21	22	23	24	25	26	27	28	29	30
Start date and time	10/21 15:03	10/21 17:56	10/21 21:31	10/22 0:02	10/22 2:39	10/22 5:30	10/22 10:42	10/22 16:53	10/22 19:55	10/22 22:46
Start latitude	3526.7	3525.8	3525.1	3527.3	3525.9	3524.0	3549.3	3547.4	3549.3	3551.8
Start longitude	12116.4	12120.9	12130.1	12137.8	12142.7	12143.9	12157.7	12148.5	12142.6	12137.0
End latitude	3527.8	3526.9	3526.2	3527.8	3526.5	3525.0	3549.5	3548.6	3550.4	3553.0
End longitude	12116.6	12121.0	12130.5	12139.1	12143.9	12144.9	12159.2	12148.8	12142.9	12137.3
Bottom depth (m)	432	569	906	1063	1133	1198	1216	1040	871	663
Duration (h)	0.53	0.55	0.52	0.53	0.52	0.52	0.51	0.53	0.51	0.51
Distance fished (km)	2.19	2.20	2.24	2.18	2.21	2.29	2.25	2.34	2.21	2.35
Net width (m)	17.473	17.669	17.933	17.287	17.302	17.329	17.329	17.391	18.403	16.738
Net measured?	Y	Y	Y	N	N	N	N	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish			1.5	0.7	0.2	0.0		1.5	1.0	0.5
Brown catshark	22.1	9.5	5.1				1.9		2.1	11.4
Spiny dogfish		1.9								
Skates	88.5	9.1								
Other elasmobranchs	13.2	27.0	1.2							6.8
Arrowtooth flounder										
Petrale sole	0.5									
Dover sole	63.5	15.5	31.2	22.3					47.8	86.0
Deepsea sole			16.2	8.6	2.1		2.6	8.6	7.9	
Rex sole	15.7									
Other flatfish										
Sablefish	22.6	27.9	82.9	68.5	21.9	23.9		50.7	49.2	28.0
Pacific grenadier			1.9	31.6	52.6	66.0	117.1	10.7		
Giant grenadier			5.5	72.3	11.4	9.4	40.8	13.0	12.3	
Other grenadiers		0.8						0.1		
Pacific flatnose			0.1	5.6	7.5	10.3	25.2	1.2	0.3	
Slickheads			34.5	18.0	49.0	17.5	15.7	17.4	22.8	8.1
Eelpouts	2.3	0.4	18.6	22.0		0.6		0.8	3.5	0.0
Snailfish		0.0	0.6						0.5	0.0
Pacific hake	71.5	12.7	1.0		0.5					1.3
Other roundfish	0.0	0.2	3.4	3.3	3.4	2.6	1.4	2.1	2.8	1.0
Shortspine thornyhead	52.7	15.1	34.8	34.0	24.2	8.1	5.7	24.9	21.8	31.6
Longspine thornyhead		15.7	197.6	45.3	34.6	44.6	42.2	64.7	241.8	114.5
Rougheye rockfish										
Pacific ocean perch										
Aurora rockfish	28.5	2.0								
Darkblotched rockfish										
Splitnose rockfish	61.1	3.2								
Greenstriped rockfish										
Other rockfish	1.8									
True tanner crab			9.6	5.6	1.4	0.2	2.6	2.2	1.4	0.1
Sea urchins	53.3	162.8							146.8	75.0
Sea stars	47.7	47.3	6.1	91.6	33.2	41.2	15.8	31.2	42.8	19.4
Other invertebrates	16.1	15.2	15.8	23.6	14.0	12.0	51.5	25.7	5.2	6.3
Total catch weight	561.3	366.2	467.7	453.1	256.0	236.6	322.6	254.9	609.9	390.0

Table A1.--Continued.

Haul number	31	32	33	34	35	36	37	38	39	40
Start date and time	10/23 1:25	10/23 8:28	10/23 10:28	10/23 13:00	10/23 15:46	10/23 19:02	10/23 22:29	10/24 1:13	10/24 3:37	10/24 5:57
Start latitude	3552.0	3618.8	3621.1	3622.4	3623.3	3620.0	3642.8	3644.9	3645.6	3645.9
Start longitude	12134.3	12207.9	12211.0	12213.2	12213.9	12205.7	12216.9	12215.8	12214.7	12212.8
End latitude	3553.1	3620.0	3622.3	3623.6	3624.5	3620.4	3643.6	3645.8	3646.5	3646.5
End longitude	12134.7	12207.8	12210.8	12212.8	12213.6	12205.2	12217.9	12216.9	12215.7	12214.1
Bottom depth (m)	526	592	827	1090	1152	333	1177	942	788	677
Duration (h)	0.50	0.52	0.52	0.53	0.57	0.26	0.52	0.51	0.51	0.51
Distance fished (km)	2.33	2.23	2.27	2.38	2.40	1.13	2.16	2.23	2.24	2.27
Net width (m)	16.245	15.437	16.595	18.046	17.329	16.212	17.329	17.367	17.481	17.208
Net measured?	Y	Y	Y	Y	N	Y	N	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish	0.1	2.8	2.1	1.2	0.1		0.2	9.2	0.3	0.5
Brown catshark	10.4	15.9	16.6	2.4	0.9		1.8	1.3	1.5	10.3
Spiny dogfish										
Skates	22.2		3.8	0.0	3.2	5.7	19.7			4.3
Other elasmobranchs	16.0	4.0				73.1				2.0
Arrowtooth flounder										
Petrable sole						60.2				
Dover sole	47.7	81.2	93.8	5.7		212.4	85.6	319.6	169.5	23.2
Deepsea sole		1.5	4.4	23.5	1.3		23.6	15.4		
Rex sole						13.9				
Other flatfish						0.7				
Sablefish	41.0	5.9	6.3	44.8	21.1	36.7	22.5	3.1	6.1	19.7
Pacific grenadier			0.1	66.4	179.7		145.1	76.7	0.6	
Giant grenadier			16.4	38.4	65.0		40.3	7.6	1.2	
Other grenadiers	0.1		0.2					0.1	1.2	
Pacific flatnose		0.1	3.1	14.3	34.3		27.6	3.7	0.5	0.1
Slickheads	0.0	2.4	45.3	134.7	85.9		38.1	17.4	12.6	16.3
Eelpouts	1.1		19.6	9.6	1.2	48.6	3.3	15.3	4.8	1.6
Snailfish	0.3	0.2	1.0	0.0	0.4	0.1	0.0	1.0	0.3	9.3
Pacific hake	93.1	15.9	2.6	2.7		173.4			1.7	8.2
Other roundfish	0.2	0.2	0.7	1.3	2.3	0.1	1.9	7.6	0.5	0.5
Shortspine thornyhead	35.6	12.0	8.6	36.1	58.0	22.3	23.1	22.9	11.8	19.3
Longspine thornyhead	31.1	10.9	92.8	100.2	62.9		24.2	135.6	152.4	64.4
Rougheye rockfish										
Pacific ocean perch										
Aurora rockfish	30.9	0.8								
Darkblotched rockfish										
Splitnose rockfish						139.6				
Greenstriped rockfish										
Other rockfish	5.6					12.9				
True tanner crab	1.8	1.9	12.1	36.6	16.0	0.1	25.9	31.8	113.4	13.5
Sea urchins	79.7	21.0	38.6			8.8		0.1	0.9	0.2
Sea stars	69.5	10.5	8.3	15.8	116.5	16.0	32.0	12.7	2.7	0.1
Other invertebrates	21.9	5.6	50.0	35.8	22.4	24.1	28.9	38.5	16.0	15.5
Total catch weight	508.4	192.7	426.2	569.9	671.1	848.7	543.8	719.4	498.0	208.9

Table A1.--Continued.

Haul number	41	42	43	44	45	46	47	48	49	50
Start date and time	10/24 8:07	10/24 11:50	10/24 15:14	10/24 19:36	10/24 21:22	10/24 23:26	10/25 2:05	10/25 4:18	10/25 7:23	10/25 21:26
Start latitude	3647.7	3648.1	3648.1	3713.7	3713.2	3713.6	3708.3	3715.1	3713.4	3805.8
Start longitude	12211.8	12207.0	12207.0	12247.6	12256.0	12303.3	12305.1	12308.6	12310.5	12323.0
End latitude	3648.4	3648.4	3648.4	3714.1	3714.2	3713.9	3709.2	3715.9	3714.9	3806.3
End longitude	12212.8	12207.8	12207.7	12248.1	12256.7	12304.7	12306.0	12309.7	12311.5	12323.5
Bottom depth (m)	465	196	190	206	434	696	799	1066	1239	214
Duration (h)	0.47	0.29	0.30	0.26	0.50	0.50	0.51	0.52	0.85	0.26
Distance fished (km)	1.94	1.24	1.26	1.11	2.16	2.14	2.22	2.28	3.18	1.12
Net width (m)	14.994	12.42	15.14	15.394	16.111	16.735	17.319	17.54	17.329	16.333
Net measured?	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
Performance	0	-2.1	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish		0.1				0.3	5.1	0.2		
Brown catshark	19.9	0.3			1.5	5.5	1.7			
Spiny dogfish					1.0					
Skates	36.3	26.3	13.2	2.2	14.7			13.3	5.9	31.2
Other elasmobranchs	4.9	128.7	11.0	3.5	8.1		0.1	8.4	3.9	7.9
Arrowtooth flounder										
Petrale sole	1.7	27.1	38.4	8.1	0.4					81.4
Dover sole	154.8	38.6	13.5	15.1	160.7	434.9	239.5	303.0	99.7	6.3
Deepsea sole	0.3					2.4	7.4	21.9	17.5	
Rex sole	12.2	27.2	16.0	50.7	143.1					14.5
Other flatfish		223.2	405.7	25.4	1.3					38.9
Sablefish	3.0	6.0	54.7	7.1	1.0	16.6	76.7	69.0	25.1	8.7
Pacific grenadier						0.1	1.3	126.6	230.3	
Giant grenadier						5.4	0.7	119.8	84.3	
Other grenadiers							1.7			
Pacific flatnose						0.2	1.3	9.1	45.0	
Slickheads						8.3	37.8	98.6	6.8	
Eelpouts	27.8	1.7	1.3	0.4	15.6	3.6	5.7	1.3		
Snailfish	0.2					0.3	0.3	1.1	0.0	
Pacific hake	74.8	128.1	0.5	125.7	32.4					51.6
Other roundfish	0.1	2.4	1.9	3.6	0.0	0.5	0.5	0.8	0.9	9.8
Shortspine thornyhead	2.4	0.3			1.4	37.5	26.3	70.6	17.8	3.3
Longspine thornyhead	2.5					262.6	249.6	118.2	36.0	
Rougeye rockfish										
Pacific ocean perch										
Aurora rockfish	3.8	0.3		0.1	23.1					
Darkblotched rockfish										
Splitnose rockfish		0.1			26.4					
Greenstriped rockfish		0.2	0.2	5.8						4.2
Other rockfish	3.1	641.9	991.8	67.8	0.7					1,073.1
True tanner crab	0.8					15.8	8.9	4.6	0.4	0.0
Sea urchins	20.8				0.2	0.1	42.9	0.0		
Sea stars	2.4	88.7	73.8	6.3	0.7	1.0	4.4	13.3	9.8	3.1
Other invertebrates	36.8	10.9	84.6	40.3	32.4	4.7	9.3	25.1	21.7	12.3
Total catch weight	408.5	1,352.1	1,706.5	361.9	464.7	799.8	721.2	1,004.8	605.0	1,346.3

Table A1.--Continued.

Haul number	51	52	53	54	55	56	57	58	59	60
Start date and time	10/25 23:06	10/26 1:11	10/26 6:28	10/26 8:38	10/26 10:59	10/26 12:39	10/26 15:17	10/26 18:04	10/26 21:25	10/26 23:40
Start latitude	3808.2	3808.5	3832.6	3833.5	3836.0	3838.4	3841.6	3842.0	3904.7	3901.5
Start longitude	12329.0	12331.9	12343.0	12341.8	12341.7	12348.0	12352.4	12353.0	12357.6	12359.8
End latitude	3809.4	3809.3	3833.7	3834.5	3836.5	3839.3	3842.6	3842.8	3905.9	3902.7
End longitude	12329.0	12332.8	12343.4	12342.3	12342.0	12348.8	12353.3	12354.2	12357.9	12359.7
Bottom depth (m)	411	636	659	408	209	764	1091	1098	291	500
Duration (h)	0.50	0.51	0.51	0.52	0.28	0.49	0.54	0.52	0.50	0.50
Distance fished (km)	2.17	2.18	2.11	2.23	1.25	2.16	2.38	2.34	2.20	2.16
Net width (m)	15.935	17.268	17.728	16.115	16.315	17.064	17.337	17.302	16.149	16.144
Net measured?	Y	Y	Y	Y	Y	Y	Y	N	Y	Y
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish		5.0	0.9	0.3		2.8	2.4	1.6		0.3
Brown catshark	11.4	10.6	4.8	22.5			2.1	0.0		14.1
Spiny dogfish									1,190.3	5.4
Skates	67.4	7.9	6.0	58.1	11.1	4.9	7.5	15.7	31.9	12.7
Other elasmobranchs	14.4			31.0	52.4	6.6	0.7		11.1	
Arrowtooth flounder										
Petrale sole					1.3				0.3	
Dover sole	196.8	53.3	56.1	337.3	30.5	172.8	10.9	14.3	70.6	13.6
Deepsea sole		2.4	0.4			3.5	39.8	30.2		
Rex sole	188.7			181.8	63.1				2.2	3.5
Other flatfish	2.6			2.9	36.7				64.1	0.1
Sablefish	65.4	25.3	7.5	15.2		16.2	39.8	8.2	21.8	2.2
Pacific grenadier						1.3	94.7	76.3		
Giant grenadier			5.2			28.5	8.7	18.7		
Other grenadiers		0.0								0.3
Pacific flatnose		1.0	1.1			1.3	7.8	11.2		0.7
Slickheads		4.6	7.0			8.3	27.7	15.3		
Eelpouts	13.8	22.4	8.7	16.9	6.9	6.5	9.5	11.6	1.3	14.7
Snailfish	0.3	0.5	0.1	0.2			0.3	1.0		0.4
Pacific hake	488.7	2.7	1.9	90.4	24.1		0.4	0.9	122.7	26.6
Other roundfish		0.7	0.5	2.3	1.3	0.5	0.6	1.9	4.8	0.1
Shortspine thornyhead	20.7	27.5	9.5	24.4		6.4	29.6	30.4	4.6	6.8
Longspine thornyhead		80.7	45.6	8.6		121.2	139.0	145.1		10.9
Rougheye rockfish										
Pacific ocean perch										
Aurora rockfish	10.0			5.9					0.1	1.0
Darkblotched rockfish				3.0					2.9	
Splitnose rockfish	44.9			8.1					93.2	
Greenstriped rockfish					7.2					
Other rockfish	23.3		2.1	21.3	86.6				2.9	
True tanner crab		3.3	11.3			15.1	41.9	42.6	0.3	0.2
Sea urchins		0.1	1.6	19.1	2.6	0.0	0.0	0.1	73.5	9.0
Sea stars	0.1	6.2	4.0	5.7	1.5	6.4	6.2	9.8	15.4	1.8
Other invertebrates	60.9	11.0	23.3	21.6	8.4	8.8	147.2	199.2	15.9	11.9
Total catch weight	1,209.4	265.3	197.7	876.6	333.7	411.1	616.8	634.2	1,729.7	136.3

Table A1.--Continued.

Haul number	61	62	63	64	65	66	67	68	69	70
Start date and time	10/27 1:38	10/27 3:46	10/27 6:17	10/27 9:09	10/27 14:19	10/27 17:46	10/27 20:53	10/27 23:58	10/28 2:52	10/28 5:14
Start latitude	3901.4	3901.6	3903.3	3903.8	3931.9	3929.1	3928.7	3929.0	3928.6	3930.1
Start longitude	12401.4	12405.1	12409.8	12410.7	12411.3	12408.9	12407.2	12404.6	12401.0	12358.2
End latitude	3902.5	3902.8	3904.5	3904.9	3930.7	3928.1	3927.7	3928.0	3927.4	3929.5
End longitude	12401.2	12405.1	12409.2	12410.3	12411.7	12409.2	12407.8	12405.2	12401.3	12358.2
Bottom depth (m)	578	765	1088	1118	1116	920	822	682	497	224
Duration (h)	0.50	0.51	0.55	0.53	0.57	0.44	0.51	0.51	0.50	0.25
Distance fished (km)	2.19	2.22	2.39	2.33	2.35	1.98	2.12	2.17	2.26	1.11
Net width (m)	16.449	17.852	17.467	17.272	17.302	17.22	17.734	17.959	17.318	16.03
Net measured?	Y	Y	Y	Y	N	N	Y	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish	1.0	1.3	0.1	0.2		0.1	0.4	0.2		
Brown catshark	10.6	6.6	1.6	0.6	1.9	2.7	3.9	3.1	20.4	1.2
Spiny dogfish	5.7									
Skates	8.0	7.6	27.6	20.9	20.2		0.0	0.9	14.6	1.2
Other elasmobranchs			1.8	1.4	2.4		0.1	0.3	0.3	0.8
Arrowtooth flounder										
Petrale sole										0.8
Dover sole	24.3	208.7	148.4	199.1	802.1	10.3	30.3	125.1	49.4	0.6
Deepsea sole		10.5	7.0	11.1	10.9	7.2	6.8	2.7		
Rex sole	0.2								14.6	2.4
Other flatfish										4.9
Sablefish	14.3	45.7	87.7	149.0	52.4		1.8	4.4	11.8	
Pacific grenadier		1.3	117.2	178.2	55.2	5.0	2.6	1.0		
Giant grenadier		4.0	26.6	24.9	164.8	8.7	6.1	10.6		
Other grenadiers									0.1	
Pacific flatnose	3.0	0.3	11.4	24.5	17.0	2.1	1.1	1.0		
Slickheads	6.9	12.9	99.1	39.1	32.0	18.4	4.6	2.4		
Eelpouts	7.2	1.5	1.3	5.1	3.9	5.4	3.3	3.1	7.0	0.4
Snailfish	0.8	0.1	0.3	0.3		0.0		0.1		
Pacific hake	28.5	2.3	1.4	1.2	4.8	0.4	3.2	1.6	60.6	127.8
Other roundfish	0.2	1.8	1.2	0.9	0.9	0.9	1.3	0.4	0.4	2.6
Shortspine thornyhead	6.2	60.7	28.1	55.8	124.2	4.6	7.7	5.9	7.0	0.9
Longspine thornyhead	12.1	467.7	77.7	36.2	85.7	107.4	115.1	73.9	25.1	
Rougheye rockfish										
Pacific ocean perch										
Aurora rockfish	0.7								4.7	
Darkblotched rockfish										0.3
Splitnose rockfish										46.8
Greenstriped rockfish										
Other rockfish		0.5								152.1
True tanner crab	2.9	5.0	1.0	0.2	20.3	11.2	24.1	19.9	0.9	
Sea urchins	21.1	0.1							0.1	8.9
Sea stars	6.3	9.9	12.4	6.6	29.6	4.7	6.4	4.4	4.4	46.2
Other invertebrates	8.4	25.8	48.8	14.5	52.2	8.6	9.2	7.9	27.4	2.4
Total catch weight	168.4	874.2	700.6	769.5	1,480.5	197.6	228.0	268.7	248.6	400.3

Table A1.--Continued.

Haul number	71	72	73	74	75	76	77	78	79	80
Start date and time	10/28 9:38	10/28 13:57	10/28 16:37	10/28 20:44	10/28 23:56	10/29 2:34	10/29 4:44	10/29 6:30	10/29 11:00	10/29 13:31
Start latitude	3951.1	3953.9	3958.5	3957.5	4002.2	3958.2	3957.3	3957.5	4023.3	4026.4
Start longitude	12418.4	12421.8	12422.9	12432.2	12424.3	12415.7	12412.7	12412.6	12435.1	12437.6
End latitude	3949.9	3955.0	3959.1	3957.2	4002.8	3959.2	3958.2	3958.6	4024.1	4027.5
End longitude	12418.3	12422.4	12424.2	12433.7	12425.7	12416.1	12413.7	12413.3	12436.4	12437.5
Bottom depth (m)	1189	1186	959	1130	783	556	366	335	597	485
Duration (h)	0.54	0.54	0.53	0.51	0.50	0.43	0.50	0.50	0.54	0.52
Distance fished (km)	2.30	2.39	2.28	2.31	2.25	1.87	2.24	2.33	2.44	2.31
Net width (m)	17.573	17.329	17.618	17.08	17.344	17.303	16.821	17.017	16.63	16.063
Net measured?	Y	N	Y	Y	Y	Y	Y	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish	0.2	0.3	0.1	0.1	0.3				1.4	0.1
Brown catshark	0.3		2.2		5.5	7.6	5.4	2.7	13.7	26.2
Spiny dogfish							0.4			
Skates			3.8	3.6	0.6	1.8	27.2	25.9	4.8	20.4
Other elasmobranchs	1.2	0.8		0.7				1.8	0.0	0.0
Arrowtooth flounder										4.4
Petrable sole							2.6	18.9		
Dover sole	1.3		18.5		51.9	49.0	31.5	7.5	63.4	56.9
Deepsea sole	1.4		10.6	0.3	3.7				1.2	
Rex sole						0.1	35.8	29.9	12.6	52.8
Other flatfish							1.3	1.5		0.0
Sablefish	63.8	12.8	111.0	36.8	28.8	26.8	6.7	1.4	31.7	15.1
Pacific grenadier	99.5	59.0	63.0	31.6	2.1	0.2			1.4	1.3
Giant grenadier	119.1	93.7	4.7	34.1	13.1	4.3	1.3			3.9
Other grenadiers	0.2									0.2
Pacific flatnose	14.4	32.6	1.6	17.0	0.8	0.9			23.4	2.9
Slickheads	45.3	5.8	32.7	18.5	16.8					
Eelpouts	0.6		4.2		1.0	3.0	10.1	3.4	3.3	42.6
Snailfish		0.3	0.0			0.2	0.2	0.0	1.9	5.3
Pacific hake				0.4		14.6	75.7	62.2	13.6	93.0
Other roundfish	0.1	2.7	0.4	0.6	1.0	0.2	0.5	1.5		
Shortspine thornyhead	18.4	16.1	72.0	11.7	8.3	10.4	1.9	0.7	3.0	4.1
Longspine thornyhead	73.7	28.1	111.9	39.8	219.2	28.9			0.6	
Rougheye rockfish										
Pacific ocean perch							0.5	0.7		
Aurora rockfish							0.8		1.0	14.0
Darkblotched rockfish							5.3	0.4		1.3
Splitnose rockfish							3.7	3.2		
Greenstriped rockfish										
Other rockfish							2.7	1.3	0.5	
True tanner crab	16.4	8.6	13.7	8.1	20.0	1.2			3.2	
Sea urchins						0.3	0.4	0.1	0.5	24.6
Sea stars	17.3	3.6	1.1	17.4	6.0	2.2	4.0	1.7	4.4	13.9
Other invertebrates	49.8	22.9	4.1	38.7	10.0	9.4	14.1	36.9	20.1	11.2
Total catch weight	522.9	287.3	455.8	259.5	389.2	161.3	232.2	201.7	205.8	394.2

Table A1.--Continued.

Haul number	81	82	83	84	85	86	87	88	89	90
Start date and time	10/29 15:47	10/29 18:32	10/29 21:16	10/30 2:31	10/30 6:23	10/30 8:42	10/30 11:29	10/30 13:46	10/30 16:42	10/30 18:45
Start latitude	4027.1	4026.0	4024.8	4025.9	4050.5	4053.1	4051.8	4051.2	4049.4	4048.2
Start longitude	12436.5	12440.5	12441.1	12439.1	12444.8	12444.4	12440.6	12437.6	12430.6	12427.1
End latitude	4028.2	4027.1	4025.9	4027.0	4051.6	4054.1	4052.4	4052.1	4050.6	4049.3
End longitude	12437.0	12441.2	12441.9	12439.8	12444.0	12445.4	12442.1	12438.8	12430.8	12426.3
Bottom depth (m)	198	983	1237	817	1211	940	750	611	463	212
Duration (h)	0.52	0.52	0.54	0.51	0.51	0.52	0.54	0.52	0.53	0.51
Distance fished (km)	2.34	2.34	2.31	2.27	2.35	2.39	2.41	2.37	2.22	2.31
Net width (m)	15.78	17.512	17.329	16.994	17.329	17.07	17.763	16.871	14.517	16.198
Net measured?	Y	Y	N	Y	N	Y	Y	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish			0.2	0.2	1.8	0.2	0.4	0.3	1.9	0.1
Brown catshark	0.3	1.5		1.4		1.0	2.7	2.8	2.3	8.5
Spiny dogfish										15.9
Skates	21.4	10.9	16.7	7.6	9.8	0.8		5.4	10.9	12.6
Other elasmobranchs	436.6						0.0			2.5
Arrowtooth flounder									1.5	1.3
Petrale sole	18.3									3.6
Dover sole	52.1	383.2	115.0	240.0	25.7	11.1	79.4	9.8	37.9	6.1
Deepsea sole		24.1	2.9	7.9	17.3	1.6	4.5	0.8		
Rex sole	21.7						0.4	10.3	29.5	26.0
Other flatfish	5.8								0.3	63.7
Sablefish	2.6	137.3	38.5	166.9	42.7	18.0	33.5	22.5	6.1	3.1
Pacific grenadier		38.3	43.1	12.8	106.0	10.2	0.8	2.7		
Giant grenadier		18.1	20.6	31.6	40.5	7.7	5.3	1.3		
Other grenadiers										
Pacific flatnose		6.2	10.2	3.4	13.4	6.3	2.0	1.7		
Slickheads		11.9	0.8	35.4	1.3	6.4	9.2	6.7		
Eelpouts		4.0	4.1	22.1		3.0	2.5	16.5	8.2	7.9
Snailfish	0.1		0.0	0.4	0.4	0.3	0.1	0.3	0.4	0.2
Pacific hake								0.5	38.9	75.4
Other roundfish	4.1	0.8	0.8	1.1	6.2	0.5	0.4	0.1		13.2
Shortspine thornyhead		33.0	24.7	61.1	53.8	1.9	7.2	8.8	3.1	
Longspine thornyhead		211.1	8.0	230.8	136.0	158.6	207.1	107.1		
Rougheye rockfish										
Pacific ocean perch										
Aurora rockfish									21.1	
Darkblotched rockfish									3.4	1.0
Splitnose rockfish	0.1									25.6
Greenstriped rockfish	7.2									4.5
Other rockfish	247.6									156.7
True tanner crab		29.4	11.7	185.3	77.3	74.7	73.8	274.1		
Sea urchins	5.5		0.0			0.0	0.0	2.4	40.2	0.3
Sea stars	12.9	4.4	2.3	1.5	4.2	2.3	1.3	3.2	312.2	15.9
Other invertebrates	36.4	2.8	16.4	4.4	109.0	25.6	11.5	14.4	705.4	47.3
Total catch weight	872.5	916.9	316.1	1,014.2	645.2	330.2	442.3	491.6	1,223.1	491.3

Table A1.--Continued.

Haul number	91	92	93	94	95	96	97	98	99	100
Start date and time	10/31 2:16	10/31 4:00	10/31 8:45	10/31 10:56	10/31 13:14	10/31 15:39	10/31 19:27	11/1 0:58	11/1 3:50	11/1 7:25
Start latitude	4114.9	4118.0	4116.5	4117.5	4116.4	4116.5	4117.3	4145.1	4144.7	4144.7
Start longitude	12424.2	12428.7	12431.5	12429.7	12434.8	12443.5	12451.5	12500.7	12459.8	12445.6
End latitude	4116.0	4119.0	4117.5	4118.6	4117.2	4117.4	4118.4	4146.1	4145.8	4145.9
End longitude	12424.3	12429.4	12432.4	12430.4	12436.0	12444.7	12452.3	12460.0	12459.1	12445.4
Bottom depth (m)	227	460	774	583	1073	1149	1152	1200	1046	844
Duration (h)	0.50	0.51	0.54	0.51	0.51	0.60	0.56	0.50	0.51	0.50
Distance fished (km)	2.18	2.25	2.34	2.29	2.19	2.31	2.33	2.22	2.32	2.23
Net width (m)	16.466	17.126	17.522	17.739	16.311	17.329	17.302	17.329	16.694	17.227
Net measured?	Y	Y	Y	Y	Y	N	N	N	Y	Y
Performance	0	0	5.1	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish									0.3	0.1
Brown catshark	2.7	12.8	3.7	11.2	1.9				1.2	21.7
Spiny dogfish	2.7									
Skates	28.9	16.4	0.3	2.5		14.3	3.9	0.1	5.5	0.3
Other elasmobranchs	1.6	0.0								
Arrowtooth flounder	2.4	8.1								
Petrale sole	5.6									
Dover sole	64.0	120.5	17.9	62.0	15.6	7.0	5.6	3.0	6.4	31.2
Deepsea sole			3.0	1.1	7.8	12.4	29.5	6.6	1.1	4.2
Rex sole	104.7	55.0		24.8						
Other flatfish	50.5									
Sablefish		7.4	19.5	13.4	4.1	98.0	130.9	21.8	60.6	21.5
Pacific grenadier			1.2	0.3	15.1	23.9	50.8	45.4	9.9	0.7
Giant grenadier			17.6	1.9	13.7	22.4	121.7	73.4	24.3	5.3
Other grenadiers										
Pacific flatnose			1.9	0.7	10.1	6.3	13.7	9.7	3.8	0.1
Slickheads			4.3	0.2	3.5	1.5	1.1		0.3	1.3
Eelpouts	10.1	18.1	2.8	13.6	10.4	3.9		0.7		0.3
Snailfish		1.1	0.3	0.5	0.2	0.4		0.3		0.0
Pacific hake	10.7	38.8		12.7						
Other roundfish	20.5	2.4	0.2	0.3	0.4	0.6	0.8	0.7	0.3	0.4
Shortspine thornyhead	4.9	3.8	4.7	8.1	3.9	16.3	11.7	4.2	4.7	
Longspine thornyhead			121.3	53.7	134.6	176.0	126.8	61.4	110.0	142.2
Rougheye rockfish										
Pacific ocean perch										
Aurora rockfish		8.1								
Darkblotched rockfish	1.0									
Splitnose rockfish	61.0									
Greenstriped rockfish	0.6									
Other rockfish	68.0									
True tanner crab			56.5	12.9	43.8	29.8	3.0	5.8	21.2	8.3
Sea urchins	42.1	7.7	0.3	0.9	0.1					2.3
Sea stars	13.5	27.2	8.7	4.4	4.9	17.4	18.4	12.1	4.7	4.1
Other invertebrates	18.5	51.3	9.9	18.0	19.9	71.2	22.9	34.1	13.0	6.9
Total catch weight	514.2	381.7	274.6	244.5	290.8	501.4	540.8	279.2	267.2	250.9

Table A1.--Continued.

Haul number	101	102	103	104	105	106	107	108	109	110
Start date and time	11/1 10:46	11/1 12:59	11/1 14:41	11/1 17:46	11/1 19:22	11/1 21:39	11/1 23:41	11/2 2:36	11/2 5:16	11/2 9:24
Start latitude	4145.0	4142.8	4145.9	4207.4	4209.8	4210.5	4212.2	4209.5	4208.6	4236.8
Start longitude	12435.8	12432.9	12429.0	12435.8	12439.0	12447.3	12452.2	12455.5	12457.0	12447.4
End latitude	4146.2	4143.9	4147.1	4208.2	4211.0	4211.6	4213.4	4210.6	4209.9	4237.9
End longitude	12435.6	12433.5	12429.0	12436.0	12438.9	12447.9	12452.3	12455.8	12456.8	12446.6
Bottom depth (m)	588	498	276	242	428	650	857	1072	1167	691
Duration (h)	0.52	0.52	0.51	0.36	0.53	0.51	0.51	0.53	0.53	0.53
Distance fished (km)	2.43	2.37	2.24	1.51	2.15	2.16	2.22	2.27	2.44	2.37
Net width (m)	17.378	17.37	16.888	16.715	17.101	17.382	17.511	18.326	16.48	16.119
Net measured?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish	0.1	0.4			0.4	0.2	0.9		0.1	0.2
Brown catshark	6.6	8.9	9.0		14.0	3.1	1.5	0.7		3.2
Spiny dogfish			0.6	0.5	8.1					
Skates		6.5	80.4	24.8	46.5			3.5	16.7	4.8
Other elasmobranchs			0.6	5.1				0.5		1.3
Arrowtooth flounder		3.0	4.7	6.1	2.5					
Petrale sole			2.8	1.6						
Dover sole	13.4	60.2	10.1	18.2	32.7	53.4	125.6	2.9	6.1	193.0
Deepsea sole	0.9					2.2	7.4	5.9	9.4	0.8
Rex sole	1.6	55.8	257.4	80.8	5.9	0.5				
Other flatfish		0.2	42.6	16.3	0.8					
Sablefish	21.3	9.7	4.6	5.3	22.9	33.4	21.0	13.2	65.6	4.3
Pacific grenadier						3.0	5.6	96.7	92.0	22.7
Giant grenadier						47.9	25.6	38.0	61.5	8.0
Other grenadiers		0.1								
Pacific flatnose	0.2					1.7	2.9	7.3	16.0	7.3
Slickheads	0.3					0.2	2.7	11.3	3.5	11.7
Eelpouts	20.8	30.1	11.7	0.4	19.2	10.1	1.5	2.5		29.4
Snailfish	0.9	0.3	0.2		1.1	0.3	0.1	0.2		
Pacific hake	3.9	61.4	123.8	33.4	62.7	1.5	0.3			
Other roundfish	0.4	0.1	50.5	3.2	0.0	0.0	0.3	1.2	6.8	0.3
Shortspine thornyhead	4.4	21.5	12.2	3.4	17.3	14.1	5.4	10.3	9.4	4.1
Longspine thornyhead	100.9	5.7				128.9	168.2	109.7	111.7	48.7
Rougheye rockfish										
Pacific ocean perch					0.6					
Aurora rockfish		1.0			22.4					
Darkblotched rockfish			0.7	5.7	0.4					
Splitnose rockfish			16.8	8.4						
Greenstriped rockfish				7.5						
Other rockfish			3.3	57.3	0.6					
True tanner crab	18.2	2.4	0.0			28.0	42.3	31.3	12.3	85.4
Sea urchins	0.1	3.3	159.7	142.5	50.5	0.8	0.2			
Sea stars	4.2	7.7	2.1	4.0	32.9	10.4	5.6	8.0	26.0	4.4
Other invertebrates	10.3	27.9	26.2	6.5	15.6	12.9	7.3	35.9	17.0	9.3
Total catch weight	208.3	306.2	819.9	431.1	357.0	352.6	424.4	378.9	454.0	438.7

Table A1.--Continued.

Haul number	111	112	113	114	115	116	117	118	119	120
Start date and time	11/2 11:19	11/2 13:05	11/2 15:22	11/2 18:02	11/2 20:44	11/3 1:08	11/3 3:02	11/3 5:24	11/3 7:26	11/3 9:42
Start latitude	4236.3	4239.9	4239.5	4240.3	4240.3	4305.4	4305.9	4307.5	4306.1	4306.9
Start longitude	12445.8	12443.3	12455.1	12456.9	12459.0	12454.8	12453.8	12441.7	12452.5	12459.4
End latitude	4237.3	4240.7	4240.8	4241.6	4241.5	4304.3	4304.8	4306.4	4305.0	4306.0
End longitude	12444.8	12443.7	12455.3	12457.0	12459.3	12455.1	12454.3	12442.4	12453.1	12458.2
Bottom depth (m)	479	251	832	1005	1112	558	471	189	346	1055
Duration (h)	0.52	0.35	0.53	0.54	0.52	0.51	0.50	0.51	0.50	0.54
Distance fished (km)	2.46	1.64	2.33	2.37	2.27	2.24	2.21	2.31	2.34	2.40
Net width (m)	16.564	16.022	17.346	17.743	17.516	16.378	15.973	15.743	15.365	17.102
Net measured?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish	0.3		0.6	0.8	0.3	0.5	2.3			0.2
Brown catshark	13.2	0.6	0.7	0.3		1.8	5.3	0.1	11.2	0.5
Spiny dogfish	1.3	0.3	2.2			5.2	141.2	9.2	69.2	
Skates	51.4	15.2	1.0	0.6	11.6	6.3	27.7	27.3	10.7	7.2
Other elasmobranchs		2.6						24.5	1.5	0.0
Arrowtooth flounder	8.4	3.3					10.8	1.9	10.1	
Petrale sole		3.2						1.4	0.6	
Dover sole	47.6	6.3	127.4	116.4	3.8	86.8	166.1	15.5	65.4	
Deepsea sole			7.4	20.4	9.9					9.5
Rex sole	92.6	39.0				13.6	164.9	6.9	52.4	
Other flatfish	1.6	18.2					3.6	73.4	4.6	
Sablefish	10.9	2.7	13.2	44.2	330.9	48.8	30.8		7.4	7.9
Pacific grenadier	0.0		9.3	82.4	70.6	0.4				20.2
Giant grenadier			12.0	22.1	55.4	6.5				13.3
Other grenadiers	0.3					0.0				
Pacific flatnose	1.6		1.5	8.4	12.2	5.1				10.6
Slickheads			7.7	15.3	23.0	0.4				22.8
Eelpouts	43.2	1.8	4.2	8.5	2.8	20.9	66.8	5.1	7.8	2.6
Snailfish	0.8		0.2			4.7	1.1		0.3	0.1
Pacific hake	30.5	13.4	1.2	1.3	0.6	14.3	234.5	13.0	146.9	
Other roundfish	0.0	24.6	0.9	0.6	5.2	0.1	0.0	40.6	1.4	7.1
Shortspine thornyhead	1.7	2.7	17.3	17.8	50.4	32.4	3.8	7.7	3.8	50.0
Longspine thornyhead			205.0	164.0	215.8	51.9				227.6
Rougheye rockfish									2.9	
Pacific ocean perch									3.8	
Aurora rockfish	1.8						0.5	0.5		
Darkblotched rockfish		0.5							6.8	
Splitnose rockfish		0.2							2.4	
Greenstriped rockfish								0.9		
Other rockfish		38.5						0.4	0.3	0.2
True tanner crab	1.8		93.6	53.9	12.6	42.9	8.9			43.2
Sea urchins	8.3	128.3		0.0	0.0	0.5	18.4	0.3	24.4	
Sea stars	15.9	7.8	2.9	35.3	20.6	9.1	19.2	2.0	40.5	1.7
Other invertebrates	40.2	36.2	11.5	20.5	67.7	7.5	30.3	3.3	27.3	24.3
Total catch weight	373.5	345.3	519.7	612.7	893.5	359.6	936.2	234.1	501.2	448.9

Table A1.--Continued.

Haul number	121	122	123	124	125	126	127	128	129	130
Start date and time	11/3 12:23	11/3 15:13	11/3 19:38	11/3 22:41	11/4 1:11	11/4 3:39	11/4 5:55	11/4 7:51	11/4 9:50	11/4 15:18
Start latitude	4306.7	4310.7	4330.9	4333.7	4331.9	4334.2	4331.3	4330.8	4329.8	4355.7
Start longitude	12501.2	12455.9	12503.4	12459.7	12454.6	12450.1	12447.1	12443.8	12439.7	12503.9
End latitude	4305.5	4309.5	4329.8	4332.7	4330.7	4333.0	4332.5	4332.0	4331.1	4356.9
End longitude	12500.5	12455.6	12503.1	12459.2	12454.6	12449.8	12447.0	12443.5	12439.4	12503.4
Bottom depth (m)	1143	733	1135	1044	731	640	589	496	334	1237
Duration (h)	0.52	0.53	0.54	0.51	0.50	0.50	0.50	0.51	0.52	0.53
Distance fished (km)	2.41	2.34	2.22	2.19	2.22	2.28	2.24	2.27	2.44	2.37
Net width (m)	17.302	16.283	17.329	17.189	16.768	16.949	17.912	17.685	16.689	17.329
Net measured?	N	Y	N	Y	Y	N	Y	Y	Y	N
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish		0.2	0.2	0.9	1.4	0.3	0.1	0.6	0.5	0.8
Brown catshark		6.3	0.8	1.1	1.0	0.6	3.7	0.7	1.3	
Spiny dogfish								2.9	333.3	
Skates			12.4	0.3	3.1	8.5	9.3	4.9	26.0	28.0
Other elasmobranchs			0.5	0.1						
Arrowtooth flounder							0.5	2.2	3.1	
Petrale sole									1.1	
Dover sole		37.2	0.8	4.0	5.0	17.9	52.3	18.9	87.1	
Deepsea sole	0.5	0.8	3.4	9.3	1.1	2.3	0.5			1.0
Rex sole						0.1		84.7	43.3	
Other flatfish								5.5	22.6	
Sablefish	18.2	82.9	56.8	8.8	3.5	77.2	16.7	4.5	21.9	117.4
Pacific grenadier	39.4	0.4	54.8	31.7	2.1	2.0	4.8			114.2
Giant grenadier	43.1	35.8	28.6	20.9	22.8	41.1	23.7			299.9
Other grenadiers										
Pacific flatnose	12.1	0.6	5.0	5.1	0.8	0.6	2.5	0.9		36.9
Slickheads	4.7	24.4	4.6	8.6	1.7	1.8	0.2			10.1
Eelpouts	0.0	0.6		0.9	0.5	0.2	6.5	30.0	10.7	
Snailfish	0.4	0.4		0.0	0.1	0.3	3.3	1.5	0.4	0.2
Pacific hake						0.5	1.5	67.7	21.8	
Other roundfish	0.4	0.5	4.6	1.5	1.6	0.3	0.4	0.1	3.3	0.3
Shortspine thornyhead	3.7	4.8	6.7	5.1	1.8	28.0	12.8	13.8	15.9	9.8
Longspine thornyhead	151.6	150.3	99.5	129.3	83.1	161.1	94.0	6.5		20.5
Rougheye rockfish									0.8	
Pacific ocean perch									0.7	
Aurora rockfish										
Darkblotched rockfish									2.3	
Splitnose rockfish									5.4	
Greenstriped rockfish										
Other rockfish									0.8	
True tanner crab	44.8	112.8	20.3	27.5	27.4	81.9	66.4	0.3		5.3
Sea urchins		0.0				0.8	1.5	28.8	33.6	
Sea stars	15.0	9.3	10.2	2.8	12.9	12.0	8.1	8.7	32.9	16.2
Other invertebrates	73.7	4.5	18.7	8.8	6.2	19.5	10.1	24.0	16.7	47.9
Total catch weight	407.5	471.7	327.9	266.6	175.9	457.1	318.9	307.3	685.4	708.6

Table A1.--Continued.

Haul number	131	132	133	134	135	136	137	138	139	140
Start date and time	11/4 17:51	11/4 20:19	11/4 23:33	11/5 2:07	11/5 3:56	11/5 5:42	11/5 8:17	11/5 10:42	11/5 12:57	11/5 15:34
Start latitude	4357.1	4357.9	4358.1	4357.9	4404.6	4404.9	4421.9	4426.1	4426.7	4425.9
Start longitude	12501.3	12501.8	12501.6	12500.2	12457.0	12457.6	12502.2	12506.9	12504.5	12445.9
End latitude	4358.3	4359.0	4359.1	4358.8	4405.8	4406.1	4423.1	4427.4	4425.5	4425.1
End longitude	12501.0	12501.1	12500.9	12459.1	12456.9	12458.0	12502.6	12506.7	12505.0	12446.3
Bottom depth (m)	828	1098	1045	730	356	392	788	1214	918	197
Duration (h)	0.54	0.55	0.51	0.50	0.51	0.50	0.53	0.52	0.50	0.35
Distance fished (km)	2.33	2.31	2.34	2.20	2.33	2.23	2.35	2.35	2.24	1.61
Net width (m)	17.786	16.189	17.823	17.679	16.847	16.468	17.541	17.329	16.558	15.37
Net measured?	Y	Y	Y	Y	Y	Y	Y	N	Y	Y
Performance	0	-6	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish	1.6	0.3	0.1	0.3	0.2		0.5		1.3	
Brown catshark	1.2	0.2		0.1	7.3	4.1	2.5		0.4	0.2
Spiny dogfish					766.7	241.0				21.2
Skates		10.9	9.0	11.3	18.2	5.6		15.4	2.6	3.9
Other elasmobranchs				0.2	24.8	3.9				9.0
Arrowtooth flounder					1.9	21.8				0.8
Petrale sole					0.9					2.4
Dover sole	169.1	21.5	43.3	222.8	134.6	85.8	4.8		10.7	9.4
Deepsea sole	7.5	6.1	9.1	3.9			4.6	2.4	4.5	
Rex sole					27.2	29.8				12.6
Other flatfish					4.5	5.5				34.2
Sablefish	25.1	10.8	19.6	27.2	36.5	20.7	9.6	64.6	18.1	15.1
Pacific grenadier	5.8	24.6	51.8	1.7			0.3	62.8	9.8	
Giant grenadier	62.4	61.6	56.2	29.6			4.3	289.7	14.7	
Other grenadiers				0.0						
Pacific flatnose	0.6	2.3	5.9	4.6				20.9	3.2	
Slickheads	13.3	2.1	7.0	3.8			0.7	3.8	6.1	
Eelpouts	2.5	6.3	6.4	6.8	10.0	18.4	0.7	14.2	10.1	10.9
Snailfish				1.1	0.5	0.8	0.1	0.5	0.1	0.5
Pacific hake	0.0			1.8	229.2	133.5			0.4	74.3
Other roundfish	0.2	6.3	14.2	0.2	1.3		2.7	8.1	0.6	1.6
Shortspine thornyhead	11.3	5.2	24.3	16.0	6.3	3.0	2.9	8.3	6.5	
Longspine thornyhead	132.8	31.9	129.6	104.3	2.4		64.6	55.3	109.6	
Rougheye rockfish					2.1					
Pacific ocean perch						0.6				
Aurora rockfish						0.3				
Darkblotched rockfish					2.5	1.8				0.5
Splitnose rockfish					8.6	0.9				0.3
Greenstriped rockfish										3.2
Other rockfish					5.6	1.8				7.2
True tanner crab	22.0	25.6	41.3	36.9	0.4	0.1	47.4	12.1	32.2	
Sea urchins				0.0	10.2	5.5				
Sea stars	10.1	4.6	5.5	7.7	8.6	1.7	2.1	11.5	2.6	
Other invertebrates	7.1	4.6	2.7	10.6	117.3	55.0	3.6	37.0	8.6	7.8
Total catch weight	472.8	224.7	426.1	490.8	1,427.7	641.6	151.4	606.4	241.8	215.1

Table A1.--Continued.

Haul number	141	142	143	144	145	146	147	148	149	150
Start date and time	11/5 17:06	11/5 18:55	11/5 21:03	11/6 1:39	11/6 4:22	11/6 7:03	11/6 10:52	11/6 13:05	11/6 18:04	11/6 21:16
Start latitude	4426.8	4428.1	4432.3	4457.9	4457.1	4455.1	4457.6	4453.6	4450.3	4459.8
Start longitude	12447.7	12452.5	12457.0	12503.0	12500.2	12459.2	12452.8	12447.1	12442.0	12430.9
End latitude	4425.8	4426.9	4431.3	4456.9	4456.1	4454.0	4456.5	4452.4	4449.1	4458.6
End longitude	12448.4	12452.2	12457.2	12503.8	12500.5	12459.6	12453.3	12447.5	12442.0	12430.5
Bottom depth (m)	336	379	666	1186	947	847	661	257	393	395
Duration (h)	0.53	0.51	0.51	0.52	0.46	0.49	0.52	0.53	0.52	0.51
Distance fished (km)	2.24	2.20	2.10	2.24	1.97	2.13	2.34	2.28	2.27	2.24
Net width (m)	16.226	16.548	18.178	17.329	17.457	16.776	16.885	15.769	16.438	17.219
Net measured?	Y	Y	Y	N	Y	Y	Y	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	0	-4.2
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish			0.4		0.2	0.3				
Brown catshark	18.3		1.8		2.2	1.2	1.9		1.0	
Spiny dogfish	39.1	22.8						1.9	10.6	
Skates	45.9	78.7	11.2	33.4	0.8	1.1	4.1	25.0	12.0	
Other elasmobranchs	15.5	6.9		0.1				4.2	2.0	
Arrowtooth flounder	11.4	35.8						4.2	27.6	
Petrale sole	2.0							3.1	2.7	
Dover sole	11.5	219.1	5.9			21.5	2.4	10.5	53.7	
Deepsea sole			1.4	0.4	2.2	5.2	2.0			
Rex sole	21.3	8.1						38.1	3.0	
Other flatfish	35.1	1.1						26.2	0.1	
Sablefish	19.0	18.7	39.0	54.0	1.9	17.0	157.1	25.2	31.3	
Pacific grenadier			1.7	43.4	22.5	2.3	1.9			
Giant grenadier			27.6	70.9	35.9	8.7	61.8			
Other grenadiers										
Pacific flatnose			2.6	21.5	3.9	0.8	3.8			
Slickheads			5.1	1.7	6.4	16.8	0.7			
Eelpouts	14.9	7.6	1.9	0.9	2.5	0.5	1.1	0.9	13.4	
Snailfish	0.9	0.2	0.1	0.2	0.1		0.2		0.4	
Pacific hake	155.8	150.3		0.6				81.5	546.2	
Other roundfish	0.1	0.0	0.1	1.3	0.7		1.1	0.2	0.2	
Shortspine thornyhead	2.2	19.3	14.4	2.7	5.5		17.5	19.6	34.6	
Longspine thornyhead		0.9	67.5	37.1	72.2	90.5	45.5			
Rougheye rockfish									1.1	
Pacific ocean perch		7.6						454.7		
Aurora rockfish	0.2	1.9							12.5	
Darkblotched rockfish	1.9	3.2							1.7	
Splitnose rockfish	5.7							1.8	3.3	
Greenstriped rockfish								3.7		
Other rockfish	1.2	2.4				0.0		307.4	2.0	
True tanner crab			10.8	7.4	22.8	15.7	45.3		0.6	
Sea urchins	101.6	4.1					0.1	0.1		
Sea stars		2.5	4.3	4.5	4.5	3.8	5.4	2.1	0.6	
Other invertebrates	6.9	31.3	4.1	53.6	10.6	8.4	31.1	10.9	8.6	
Total catch weight	510.3	622.7	200.1	333.8	194.8	194.7	382.9	1,021.3	769.2	

Table A1.--Continued.

Haul number	151	152	153	154	155	156	157	158	159	160
Start date and time	11/6 23:46	11/7 1:55	11/7 5:50	11/7 8:22	11/7 11:13	11/7 14:01	11/7 16:29	11/7 19:23	11/7 22:10	11/8 3:19
Start latitude	4458.5	4500.2	4522.6	4520.7	4519.9	4521.2	4520.6	4517.5	4519.5	4548.4
Start longitude	12426.9	12430.7	12424.6	12430.2	12436.6	12446.7	12451.2	12454.3	12456.5	12454.4
End latitude	4457.3	4459.0	4521.4	4519.9	4518.7	4519.9	4519.4	4516.3	4518.3	4547.5
End longitude	12427.0	12430.7	12424.0	12428.9	12436.6	12446.9	12450.9	12454.4	12456.5	12453.3
Bottom depth (m)	296	387	297	389	418	570	830	935	1120	1171
Duration (h)	0.50	0.50	0.51	0.52	0.53	0.51	0.53	0.51	0.51	0.52
Distance fished (km)	2.33	2.28	2.32	2.30	2.32	2.32	2.30	2.38	2.21	2.28
Net width (m)	16.923	16.76	16.642	17.047	16.616	17.059	17.032	17.009	17.167	16.8
Net measured?	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
Performance	0	0	0	0	0	0	0	0	0	-5.1
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish							0.1	0.7	0.3	
Brown catshark		1.0				13.2	5.0	2.8	0.6	
Spiny dogfish	40.8	69.0	1.4	29.1	17.9					
Skates	21.8	6.3	5.6	2.8	12.9			0.7		
Other elasmobranchs	4.2				0.0				0.9	
Arrowtooth flounder	11.3	25.7	4.5	15.7	15.4					
Petrale sole		1.5								
Dover sole	1.5	183.6		113.1	12.5	35.3	12.6			
Deepsea sole						1.1	1.8	2.4	2.4	
Rex sole	7.4	16.4	3.7	10.5		1.5				
Other flatfish	27.2	79.2	10.3	3.5						
Sablefish	39.7	25.4	8.3	24.5	25.7	10.3	55.6	14.2	36.2	34.8
Pacific grenadier						0.1	2.0	6.4	30.4	17.8
Giant grenadier						4.4	13.1	10.6	43.1	59.7
Other grenadiers							0.1			0.8
Pacific flatnose						7.4	0.7	1.5	6.6	3.2
Slickheads							13.0	3.6	7.6	10.9
Belpouts	4.1	7.2	0.8	12.7	3.0	0.4	2.7	0.1	6.0	6.1
Snailfish						0.2				
Pacific hake	23.6	50.2	9.1	233.2	24.7	17.4		0.7	0.6	
Other roundfish				1.1		0.5	0.9	1.5	1.3	1.6
Shortspine thornyhead	65.7	47.0	35.2	72.6	43.5	5.2	13.6	3.0	5.3	2.6
Longspine thornyhead					0.8	7.0	103.9	124.2	100.6	35.6
Rougheye rockfish	1.0									
Pacific ocean perch	0.2	2.5	1.2		10.5					
Aurora rockfish		1.4	0.1	3.6	5.3					
Darkblotched rockfish	1.5	2.6	1.3							
Splitnose rockfish	9.7	1.3	6.7							
Greenstriped rockfish										
Other rockfish	1.4		0.9							
True tanner crab		0.1		0.7	0.6	30.7		8.4	18.0	16.6
Sea urchins	2.0	0.0	7.5		0.2	0.7				
Sea stars	4.4	8.6	5.0	0.9	7.7	5.9	2.1	2.6	4.8	7.5
Other invertebrates	7.6	116.4	3.1	6.2	10.5	8.5	17.7	4.7	25.2	23.3
Total catch weight	275.0	645.3	104.8	530.2	191.2	149.7	244.8	188.0	289.4	220.6

Table A1.--Continued.

Haul number	161	162	163	164	165	166	167	168	169	170
Start date and time	11/8 7:00	11/10 0:34	11/11 3:18	11/11 5:20	11/11 7:08	11/11 10:05	11/11 12:35	11/11 19:33	11/12 2:13	11/12 8:27
Start latitude	4536.9	4543.8	4546.8	4548.9	4546.9	4550.2	4552.4	4616.6	4617.2	4619.0
Start longitude	12454.6	12454.4	12448.8	12444.4	12440.2	12449.9	12454.3	12451.2	12457.9	12500.2
End latitude	4538.5	4542.8	4545.8	4547.9	4545.9	4549.3	4551.5	4615.6	4616.2	4619.2
End longitude	12454.8	12455.2	12448.5	12443.7	12439.7	12449.1	12453.2	12451.2	12458.7	12502.0
Bottom depth (m)	1400	1125	619	378	250	922	825	793	1001	1140
Duration (h)	1.00	0.51	0.46	0.51	0.50	0.44	0.52	0.52	0.51	0.55
Distance fished (km)	2.78	2.20	2.00	2.24	2.14	1.97	2.25	1.98	2.20	2.41
Net width (m)	16.8	17.757	17.251	16.74	16.393	17.36	17.522	17.045	17.51	16.794
Net measured?	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	-6.1	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish		0.9		0.2		0.8	0.4		0.5	0.3
Brown catshark			0.7	4.3		0.5	0.9	5.1		0.2
Spiny dogfish				58.8	468.0	2.1				
Skates	13.8		2.3	13.2	47.3	3.1		0.3	3.9	7.8
Other elasmobranchs			1.9	10.4				0.1		
Arrowtooth flounder				17.0	5.7					
Petrale sole					4.6					
Dover sole			10.1	214.4	74.5	25.7	8.9	6.0		
Deepsea sole	4.3	0.6				8.2	5.5	4.6	1.6	0.9
Rex sole			0.1	6.2	15.5					
Other flatfish				0.8	35.4					
Sablefish	4.0	12.7	79.6	13.6	22.5	18.7	53.0	25.8	12.4	11.4
Pacific grenadier	209.3	70.4	3.3			9.2	0.9	1.3	10.7	38.1
Giant grenadier	322.4	46.4	3.1			6.8	0.4	6.5	11.7	58.2
Other grenadiers			0.1							
Pacific flatnose	46.3	8.5	4.8			1.5	1.2	0.2	1.3	13.0
Slickheads		27.2	1.4			1.9	8.4	2.8	3.1	2.0
Eelpouts	0.0	25.6	9.5	3.9	5.9	2.4	0.9	1.6	2.0	1.9
Snailfish	0.3		0.4	0.3		0.1	0.2	0.1		
Pacific hake	0.6		15.3	85.0	17.2					
Other roundfish	2.6	1.6	0.3	1.3	15.2	1.5	1.5	0.8	0.7	4.3
Shortspine thornyhead	1.1	4.7	12.1	28.8	7.3	8.3	1.8	2.5	4.3	5.2
Longspine thornyhead	9.5	69.9	24.8			113.1	136.9	71.8	75.6	78.9
Rougheye rockfish				0.5						
Pacific ocean perch				0.7	1.4					
Aurora rockfish				0.4						
Darkblotched rockfish				0.7	0.2					
Splitnose rockfish					319.5					
Greenstriped rockfish										
Other rockfish					13.3					
True tanner crab	0.0	11.9	17.6			23.7	33.0	19.7	14.0	10.4
Sea urchins				0.3	159.0					
Sea stars	3.8	1.2	2.5	1.5	3.5	1.4	0.1	3.6	2.9	2.5
Other invertebrates	65.2	29.8	3.3	68.2	9.4	2.7	5.8	3.4	6.4	16.7
Total catch weight	683.2	311.4	191.2	522.1	1,235.6	231.5	259.9	156.2	151.1	251.8

Table A1.--Continued.

Haul number	171	172	173	174	175	176	177	178	179	180
Start date and time	11/13 14:50	11/13 16:47	11/13 19:12	11/13 21:29	11/14 1:58	11/14 4:34	11/14 9:27	11/14 12:01	11/14 14:08	11/14 15:59
Start latitude	4616.7	4616.6	4614.1	4617.3	4643.2	4648.0	4647.1	4643.9	4644.8	4643.1
Start longitude	12423.3	12425.0	12449.2	12458.0	12512.2	12516.2	12512.1	12503.8	12458.7	12450.7
End latitude	4616.1	4616.6	4614.1	4616.3	4642.0	4648.3	4645.9	4642.9	4644.0	4642.4
End longitude	12424.2	12426.1	12450.9	12458.9	12512.3	12517.7	12512.1	12504.8	12457.4	12449.6
Bottom depth (m)	339	388	673	1007	934	1185	1034	798	661	400
Duration (h)	0.35	0.32	0.52	0.52	0.52	0.45	0.52	0.52	0.52	0.47
Distance fished (km)	1.54	1.42	2.17	2.25	2.26	1.99	2.18	2.30	2.27	1.99
Net width (m)	13.802	16.555	16.901	17.69	17.007	17.329	14.892	16.547	16.978	16.58
Net measured?	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish		0.2		1.2	2.3	0.2	1.7	1.2	0.2	0.5
Brown catshark	2.8	2.0	2.7	2.3	2.4	0.5	7.8	4.6	7.2	3.9
Spiny dogfish	262.4	96.5								198.3
Skates	65.2	23.2		2.8	0.9	13.6	3.4		3.7	9.7
Other elasmobranchs							1.1			
Arrowtooth flounder	4.5	19.2								20.4
Petrale sole	0.0									
Dover sole	106.6	458.8	5.5				4.7	2.4	10.5	241.1
Deepsea sole			8.1	1.1	3.1	1.9	12.4	10.6	3.9	
Rex sole	181.9	160.2								23.8
Other flatfish	5.5	4.2								25.3
Sablefish	18.7	52.4	21.6	18.7	4.4	9.4	8.0	21.8	38.5	13.0
Pacific grenadier			1.0	15.5	5.6	38.7	19.3	7.4	6.5	
Giant grenadier			2.2	33.2	20.5	58.7	40.2	23.4	10.6	
Other grenadiers					0.0					
Pacific flatnose			4.4	2.8	4.4	11.3	5.9	2.0	7.2	
Slickheads			0.3	8.9	4.2	1.1	3.4	3.2	0.2	
Eelpouts	2.5	0.7	0.2	4.2	0.7		5.5	3.9	3.8	9.4
Snailfish	0.0		0.0	0.2			0.6	0.2	0.2	
Pacific hake	0.7	3.0						0.7	0.5	10.5
Other roundfish	0.2	0.0	0.8	1.4	0.8	1.3	1.0	1.0	1.6	0.2
Shortspine thornyhead	19.8	24.0	1.4	13.3	0.9	17.8	6.2	1.8	39.7	37.6
Longspine thornyhead			41.7	100.3	119.7	82.1	140.1	96.7	93.1	
Rougheye rockfish	3.4									0.2
Pacific ocean perch										0.6
Aurora rockfish										
Darkblotched rockfish	0.3									0.7
Splitnose rockfish	0.2	0.2								
Greenstriped rockfish										
Other rockfish	0.8	1.1								
True tanner crab	0.0		170.0	11.9	15.0	16.2	16.8	29.6	73.4	0.8
Sea urchins	230.4	23.2								43.6
Sea stars	339.8	154.0	0.8	3.7	1.7	3.5	8.2	2.9	0.8	4.3
Other invertebrates	13.1	8.1	3.9	18.4	18.3	35.8	43.7	25.7	10.2	29.8
Total catch weight	1,258.9	1,031.3	264.5	240.0	204.9	292.2	330.1	239.1	311.6	673.8

Table A1.--Continued.

Haul number	181	182	183	184	185	186	187	188	189	190
Start date and time	11/14 17:29	11/14 21:39	11/14 23:42	11/15 4:05	11/15 6:20	11/15 8:47	11/15 14:20	11/15 18:16	11/15 20:41	11/15 22:59
Start latitude	4642.1	4710.6	4714.2	4714.4	4715.9	4712.4	4715.7	4737.0	4738.3	4735.6
Start longitude	12446.8	12457.7	12500.5	12502.3	12506.4	12508.9	12511.9	12508.0	12516.4	12513.3
End latitude	4641.7	4709.9	4713.1	4713.3	4715.4	4711.6	4715.2	4735.8	4737.1	4734.5
End longitude	12446.3	12457.1	12500.3	12503.0	12504.7	12508.6	12510.6	12508.0	12516.5	12513.9
Bottom depth (m)	193	315	465	563	753	980	1116	481	813	651
Duration (h)	0.28	0.36	0.50	0.51	0.51	0.36	0.43	0.52	0.50	0.50
Distance fished (km)	1.18	1.62	2.21	2.07	2.28	1.55	1.95	2.30	2.13	2.24
Net width (m)	15.873	16.553	16.29	16.694	17.111	17.238	17.911	16.96	17.269	16.6
Net measured?	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish			0.8	0.9	0.7	1.5	0.5		2.1	0.2
Brown catshark	0.1		7.8	0.7	0.7		0.9	15.0	3.7	4.3
Spiny dogfish	2,006.2	385.6	1.8	4.3	5.2	0.3		4.0		
Skates	22.6	27.1	6.2	0.0	0.2	0.6	0.3	14.4		0.5
Other elasmobranchs	3.5	25.7								
Arrowtooth flounder	1.1	24.6	4.7					6.7		
Petrale sole	2.2									
Dover sole	15.1	100.8	160.8	153.9				28.8	1.1	17.9
Deepsea sole			2.2	6.7	7.2	4.5	10.1		4.3	4.2
Rex sole	11.2	35.7	22.3	3.9				1.1		
Other flatfish	11.2	44.5	0.1					22.9		
Sablefish	8.1	22.7	6.5	22.4	61.5	16.8	8.8	1.7	47.5	35.6
Pacific grenadier				2.3	1.1	19.1	39.0		3.4	1.2
Giant grenadier			4.2	5.6	2.4	23.2	40.0	20.9	15.1	13.0
Other grenadiers				0.2						
Pacific flatnose			4.3	7.0	1.0	2.9	4.1	3.5	0.7	3.4
Slickheads					3.2	7.5	1.2		2.0	0.1
Eelpouts	0.3	5.2	5.4	5.3	2.2	3.8	5.2	8.1	12.3	1.9
Snailfish			0.4	0.5	0.1			0.6	0.1	0.3
Pacific hake	164.2	124.3	5.2	5.7	7.3			77.1		
Other roundfish	34.5	0.3	13.7	1.5	0.6	1.0	2.4	0.1	0.4	0.3
Shortspine thornyhead	0.7	28.1	39.6	9.7	10.3	12.1	14.2	22.4	1.2	20.1
Longspine thornyhead				25.7	98.2	99.4	79.6		64.7	60.4
Rougheye rockfish										
Pacific ocean perch		170.8								
Aurora rockfish			0.8							
Darkblotched rockfish		145.1								
Splitnose rockfish	0.1	18.2								
Greenstriped rockfish	16.9									
Other rockfish	280.6	40.0	4.8					10.2		
True tanner crab			0.5	4.8	27.4	6.2	1.8	8.0	23.2	45.4
Sea urchins	18.8	5.7	7.1	15.5				19.8		0.0
Sea stars	2.5	3.6	1.4	10.4	4.6	6.0	4.5	5.0	4.1	8.2
Other invertebrates	6.2	12.1	34.4	21.3	12.9	18.2	60.7	25.3	9.2	10.1
Total catch weight	2,605.8	1,220.0	334.8	308.4	246.8	223.0	273.4	295.4	195.1	226.8

Table A1.--Continued.

Haul number	191	192	193	194	195	196	197	198	199	200
Start date and time	11/16 1:17	11/16 6:36	11/16 10:37	11/16 14:17	11/16 17:39	11/16 20:47	11/16 23:38	11/17 1:56	11/17 4:23	11/17 6:21
Start latitude	4738.1	4735.9	4734.9	4741.4	4742.7	4746.2	4747.6	4745.8	4751.0	4750.2
Start longitude	12506.1	12531.1	12526.6	12544.6	12532.2	12525.5	12516.9	12518.5	12515.4	12509.2
End latitude	4737.4	4734.9	4733.7	4740.2	4741.8	4745.0	4746.8	4744.6	4750.4	4750.8
End longitude	12504.7	12530.1	12526.5	12544.7	12533.4	12525.5	12515.8	12518.4	12516.9	12510.2
Bottom depth (m)	250	1161	938	1130	1032	789	674	850	466	300
Duration (h)	0.51	0.53	0.53	0.54	0.53	0.51	0.50	0.51	0.50	0.36
Distance fished (km)	2.28	2.32	2.33	2.33	2.30	2.22	2.17	2.23	2.23	1.62
Net width (m)	15.019	17.899	17.353	17.871	17.924	17.369	17.856	17.971	17.168	15.409
Net measured?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Performance	0	0	0	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172	172	172	172
Hagfish		0.3	1.3	0.4	1.7	0.5	0.2	1.7		0.2
Brown catshark	0.2				0.4	3.0	4.3	3.5	1.3	0.3
Spiny dogfish	2,018.2	0.4							55.2	240.3
Skates	40.2	23.6	9.9	18.1	3.0				24.5	60.2
Other elasmobranchs	142.6									3.3
Arrowtooth flounder	15.8								24.9	13.7
Petrale sole	15.7									5.8
Dover sole	19.9					1.4		14.5	131.9	60.2
Deepsea sole		0.6	3.1	5.1	8.6	4.8	1.0	6.3		
Rex sole	18.0								5.3	1.9
Other flatfish	18.7								38.5	54.8
Sablefish	36.0	15.6	27.4	25.3	28.7	13.9	23.2	18.5	16.9	4.0
Pacific grenadier		28.7	12.5	37.7	14.2	2.9	6.7	2.0		
Giant grenadier		65.2	13.4	99.4	13.2	11.1	7.1	19.7	12.8	
Other grenadiers						0.5				
Pacific flatnose	1.6	2.1	1.5	1.8	1.9	0.4	3.6		1.2	
Slickheads		1.9	1.1		6.8	5.9	0.5	1.1		
Eelpouts	1.3	4.6	3.5	1.9	5.2	6.0	9.3	1.0	18.4	1.3
Snailfish	0.3				0.5	0.1	0.1	0.4	0.5	
Pacific hake	949.7							0.8	30.4	22.4
Other roundfish	36.3	0.5	0.3	0.5	0.6	0.2	0.4	0.2	0.0	0.8
Shortspine thornyhead	2.6	13.4	12.8	14.4	4.6	4.6	15.7	15.7	24.9	9.7
Longspine thornyhead	1.1	91.7	68.3	111.0	148.9	67.8	27.8	142.6		
Rougheye rockfish									2.3	1.6
Pacific ocean perch	129.1								0.7	3.1
Aurora rockfish										
Darkblotched rockfish	80.4									
Splitnose rockfish	10.2									0.6
Greenstriped rockfish	21.3									
Other rockfish	29.4								4.3	
True tanner crab	0.4	2.4	28.3		21.6	27.8	30.3	27.4	7.8	
Sea urchins	35.6								2.5	98.5
Sea stars	1.3	3.4	1.0	2.4	2.0	5.1	4.9	2.7	2.7	56.6
Other invertebrates	8.8	15.3	6.4	30.6	17.5	10.9	5.0	9.7	38.8	18.9
Total catch weight	3,634.9	269.9	190.8	348.5	279.3	167.0	139.9	268.2	445.7	658.2

Table A1.--Continued.

Haul number	201	202	203	204	205	206	207
Start date and time	11/17 12:57	11/17 15:30	11/17 19:06	11/17 23:09	11/18 6:26	11/18 13:57	11/18 19:19
Start latitude	4807.2	4804.6	4807.5	4804.9	4806.5	4759.8	4800.1
Start longitude	12539.8	12558.8	12550.5	12553.8	12545.9	12540.4	12555.5
End latitude	4808.2	4805.1	4807.4	4805.6	4805.8	4759.3	4759.1
End longitude	12540.9	12559.7	12551.9	12552.5	12544.8	12540.0	12554.0
Bottom depth (m)	211	1078	1198	897	454	686	1400
Duration (h)	0.53	0.37	0.43	0.51	0.46	0.27	1.00
Distance fished (km)	2.36	1.53	1.74	2.17	2.02	1.20	2.78
Net width (m)	16.162	17.287	17.329	17.193	16.316	17.102	16.8
Net measured?	Y	Y	N	Y	Y	Y	N
Performance	0	0	0	0	0	0	0
Gear	172	172	172	172	172	172	172
Hagfish		0.2		0.8	0.5	0.8	
Brown catshark	0.1		0.8	0.4	5.9	1.7	
Spiny dogfish	175.6	11.3			1.6		
Skates	35.8		0.0	11.1	11.2	2.9	0.3
Other elasmobranchs	9.1						
Arrowtooth flounder	42.6				92.2		
Petrable sole	6.0						
Dover sole	62.3				123.7	38.5	
Deepsea sole		12.3	2.6	12.7	0.2	2.2	23.9
Rex sole	72.7				4.5		
Other flatfish	74.6				29.2		
Sablefish	7.1	12.4	11.9	25.1	46.7	226.9	
Pacific grenadier		22.7	77.0	3.9		1.7	167.3
Giant grenadier		18.4	63.8	7.7		14.0	731.4
Other grenadiers		0.3	13.2				4.2
Pacific flatnose		2.7	4.5	0.9	0.1	1.1	43.3
Slickheads		1.8	0.8	11.3			
Eelpouts	0.5	0.4	61.7	3.5	9.2	2.0	0.0
Snailfish	0.7		0.0	0.2		0.4	1.7
Pacific hake	14.5				12.5	2.8	
Other roundfish	12.2	0.2	1.0	0.2	0.2	0.2	0.6
Shortspine thornyhead	6.0	21.0	5.1	20.7	33.7	14.3	2.5
Longspine thornyhead		55.9	123.1	104.1		43.2	11.4
Rougheye rockfish					10.0		
Pacific ocean perch	31.4				207.7		
Aurora rockfish					2.0		
Darkblotched rockfish	3.9				2.4		
Splitnose rockfish	10.1				0.6		
Greenstriped rockfish	2.1						
Other rockfish	19.8				5.7		
True tanner crab			2.4	30.1		17.6	
Sea urchins	2.1		25.4		0.1	0.0	
Sea stars	6.5	3.7	31.4	18.1	3.9	3.5	14.8
Other invertebrates	1.8	9.9	20.4	10.8	22.9	4.5	114.7
Total catch weight	597.2	173.0	445.2	261.4	626.6	378.2	1,116.0