

D-3 REVIEW OF COLUMBIA RIVER ESTUARY STUDIES INDICATING SIZE AND LOCATION OF COASTAL CUTTHROAT TROUT IN THE COLUMBIA RIVER ESTUARY 1967-1971 AND 1978-1980

3.1 Introduction

Since the 1960s, extensive sampling in the Columbia River estuary has produced a large amount of information about fish using the area. Much of this information has only been thoroughly analyzed for salmon species, and much of it has not been transferred from paper forms to computer files. This technical memo describes how a subset of data for coastal cutthroat trout (*Oncorhynchus clarki clarki*) was obtained from archival records and analyzed, and presents findings of this analysis. Objectives of the analysis were to:

- Examine occurrence of cutthroat trout in the estuary by month and location
- Examine catch patterns to determine whether cutthroat trout tended to school
- Examine size of cutthroat trout by month and location

3.2 Methods

In March 2001, a USFWS-led crew visited the NMFS Hammond Lab to transcribe data from paper forms to Excel spreadsheets. Only information about cutthroat trout was taken, and only a subset of what is available was obtained. Very little data from Jones Beach was transcribed, as this location has been reported on extensively by Loch (1982); Dawley, et al., (1985); and others. Data obtained included sampling dates, locations, and methods, and number and fork lengths of fish captured. A streamlined data entry format was used to summarize catch and effort by location-time cell (e.g., Puget Island on May 1): if no fish were captured in a cell, one record was entered showing a zero-catch and the total effort for the cell (number of net sets); if at least one fish was captured, one or more records were entered, each showing the catch of one or more net sets and the total effort for the cell. If fish were measured, there was one record per fish. If fish were not measured, a single record often represented the composite catch of more than one net set.

Data were obtained from trawling in 1966 and from beach and purse seine sampling in several years from 1967 to 1980 (Table D3-1). Trawl data were not analyzed due to difficulties identifying sampling location and because of analysis time constraints. Stations extended from the river mouth to Jones Beach at River Mile (RM) 45, including marine, estuarine mixing, and freshwater portions of the estuary (Figures D3-1a; salinity zones according to Bottom, et al., 1984). Data from nearshore and offshore areas of the ocean plume were not included in this analysis due to time constraints. Only lengths from catch cards were analyzed because of uncertainty about length data in "binders." Stations shown in Figures D3-1b and D3-1c closely approximate actual sampling sites. Beach seine locations changed slightly as bars and beaches moved over time (Ledgerwood, pers. comm., 2001). Purse seining sampled offshore areas in the main channel close to the stations indicated in Figure D3-1c. Raw data are included as Attachment D3-1.

In general, fish sampling methods were fairly standardized over the years. A 95- by 5-meter beach seine was used in most cases (Dawley, et al., 1985; Miller, pers. comm., 2001) and a smaller beach seine was occasionally used for exploration (Miller, pers. comm., 2001). For the data presented here, a 229- by 10.7-meter purse seine was used during the 1967-1978 period (Johnsen and Sims, 1973; Miller, pers. comm., 2001), and a larger 305- by 10.7-meter purse seine was used from 1979-1980 (Miller, pers. comm., 2001). Fish sampling methods are described in detail in Johnsen and Sims (1973), Sims and Johnsen (1974), Loch (1982), Dawley, et al. (1985), and others. Varying tides, river flow, and weather conditions were likely the most significant factors affecting gear efficiency (Ledgerwood, pers. comm.,

2001). Dawley, et al. (1985), adjusted their salmon passage rates for varying environmental conditions, however, information for making such an adjustment was not available for our analysis. The level of sampling consistency inherent to our data reasonably justifies monthly comparisons between stations or areas for individual gears (Ledgerwood and Miller, pers. comm., 2001). Purse seine data from 1967-1971 and 1979-1980 periods should be compared with caution because of differing net size between the two periods.

Initial data entry and editing were done in MS Excel. Subsequent analysis was performed with Systat 10 and Surfer software.

3.3 Results and Discussion

Data were analyzed from a total of 1,250 beach seine sets from all years of sampling (Table D3-2a). Most data were from March through September, but locations and months sampled were inconsistent over the years; coverage of the whole estuary was best before 1978. Average monthly beach seine catch per unit effort (CPUE) is defined as catch per set and varied from zero to 16.67 over all years (Table D3-2b). Zero catches were quite common (64 percent of all month-area cells), even when an appreciable number of sets were made. CPUE did not exceed 0.5 near the river mouth (areas A-C). Most cutthroats were caught in this area in August and September, except in 1978 when all captures were in May and June (Table D3-2a). Catch rates were higher in the middle estuary (areas D-F), ranging from 0.3 to 2.0, for catches made June through September. In the upper estuary (areas G-J), CPUE was generally in the same range as the middle estuary. Cutthroats were captured in the upper estuary from February through August. In 1967 and 1968, the only years when this area was sampled over a range of months, appreciable catches were made from March through August. The highest catch rate on record (16.7) occurred in July of 1970 in area G.

Data were analyzed from 1,109 purse seine sets from all years sampled (Table D3-3a). Most data were from April through September. Locations and months sampled were inconsistent over the years, and seldom did beach and purse seine samples coincide in time and location. Purse seine coverage of the whole estuary was best in years before 1978. Monthly beach seine CPUE per set varied from zero to 8.33 over all years (Table D3-3b), and zero-catches were common (34 percent of all month-area cells), even when an appreciable number of sets were made. Near the river mouth (areas A-C), cutthroats were captured from April through September over the years. CPUE in this area ranged up to 2.63, and peak rates were seen in May, July, and August (Table D3-3b). Catch rates in the middle estuary (areas D-F) were similar to or higher than those in the lower estuary on comparable dates. Cutthroats were caught in the middle estuary from April through August. Cutthroats were captured in the upper estuary (areas G-J) from April through July at a rate similar to other areas on comparable dates, but no data are available outside that period. Peak catch rates typically occurred in the upper estuary in May, and the highest CPUE on record (8.33) was in May 1968 in area J.

Considering all available data, catch per individual set was available from 61 purse seine sets with non-zero catches. Over half of these sets captured only one cutthroat trout, while the remaining fraction captured 2 to 14 trout (Figure D3-2). These results indicate some schooling, but most multiple catches were only 2 to 3 fish. No beach seine results were available from individual sets.

Fork lengths were available from 154 and 427 cutthroat trout captured by beach and purse seine, respectively (Table D3-4a). A few area-month cells (e.g., beach seine in area H April 1968) accounted for a large proportion of the catch, and catches were small for most other cells. For both gears, fork length ranged from about 120 to 530 millimeters (mm), with distinct modes at about 200 mm, 300 mm, and 500 mm; modes between 300 and 500 mm were more ambiguous (Figure D3-3, Table D3-4b). The overall mean fork length was 283 mm for beach seined fish and 285 mm for purse seined fish, with a

range of about 120 to 530 mm for both gears. Length data were pooled by early and late season (March-June, July-September) and by portion of the estuary (lower = areas A-C, middle = areas D-E, upper = areas F-J) to calculate mean and standard deviation of fork length for individual gears. In these comparisons, fork length differed little between gears, except during the March-June period in the middle estuary, when the beach seine caught much smaller fish than the purse seine (Figure D3-4). This difference might suggest that outmigrating smolts in the middle estuary favored nearshore habitats, whereas kelts (adults migrating to the ocean after spawning) or other larger cutthroats favored channel habitats. Alternatively, it may be an artifact of the very small beach seine sample size for this period and portion of the estuary (Table D3-4a). The spread of sizes overlapped considerably across zones and seasons, and trends in length relative to these factors are not clear.

Analysis of the Hammond data presented here suggests several spatial and temporal trends in abundance and size of coastal cutthroat trout in the Columbia River estuary. Cutthroats were taken in the shallows (beach seining) of the upper estuary (freshwater zone, Figure D3-1) and in the channel (purse seining) throughout the estuary for at least April through September, whereas they were seldom taken in the shallows of the lower two-thirds of the estuary (estuarine mixing and marine zones) until May or later. Somewhat higher catch rates in the middle and upper estuary suggest that cutthroats were more abundant there than in the lower estuary where catch rates tended to be lower. Frequent catches of more than one cutthroat per set, when any were caught at all, indicated that occasional schooling occurred. Trends in size of cutthroat by time of year and portion of the estuary were not clear.

These results are more suggestive than definitive. They were influenced by small sample sizes and by the lack of any data at all for many times of year and locations of interest. Also, they were not supported by statistical tests, which were beyond the scope of this memorandum. Statistical testing would certainly require pooling of data (e.g., as for length computations above) to reduce the number of empty cells. The USFWS crew was not able to compensate for weather, flow, and tidal conditions during sampling, which undoubtedly affected catch rates, especially for beach seining. Another potential source of error was uncertainty about differentiation of cutthroat trout and steelhead in early years. For this analysis it was assumed that all fish were identified correctly.

3.4 Acknowledgements

Jen Burke (Oregon Department of Fish and Wildlife), Dick Ledgerwood (NMFS), and Dave Miller (NMFS) provided important advice and guidance during data transcription and analysis. Darci Weber and Paula Morgan of Parametrix assisted with data gathering and entry.

3.5 References

- Bottom, D.L., K.K. Jones, and M.J. Herring. 1984. Fishes of the Columbia River Estuary. Final Report on the Fish Work Unit of the Columbia River Data Development Program to the Oregon Department of Fish and Wildlife (ODFW). Portland, Oregon.
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- Johnsen, R.H., and C.W. Sims. 1973. Purse Seining for Juvenile Salmon and Trout in the Columbia River Estuary. *Transactions of the American Fisheries Society* 102:341-345.
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Loch, J.J. 1982. Juvenile and Adult Steelhead and Sea-Run Cutthroat Trout within the Columbia River Estuary, 1980. Washington Department of Game, Fish Management Division Report 82-2.

Miller, D. 2001. National Marine Fisheries Service. Personal communication on July 24, 2001.

Sims, C.W., and R.H. Johnsen. 1974. Variable-Mesh Beach Seine for Sampling Juvenile Salmon in Columbia River Estuary. *Marine Fisheries Review* 36:23-26.

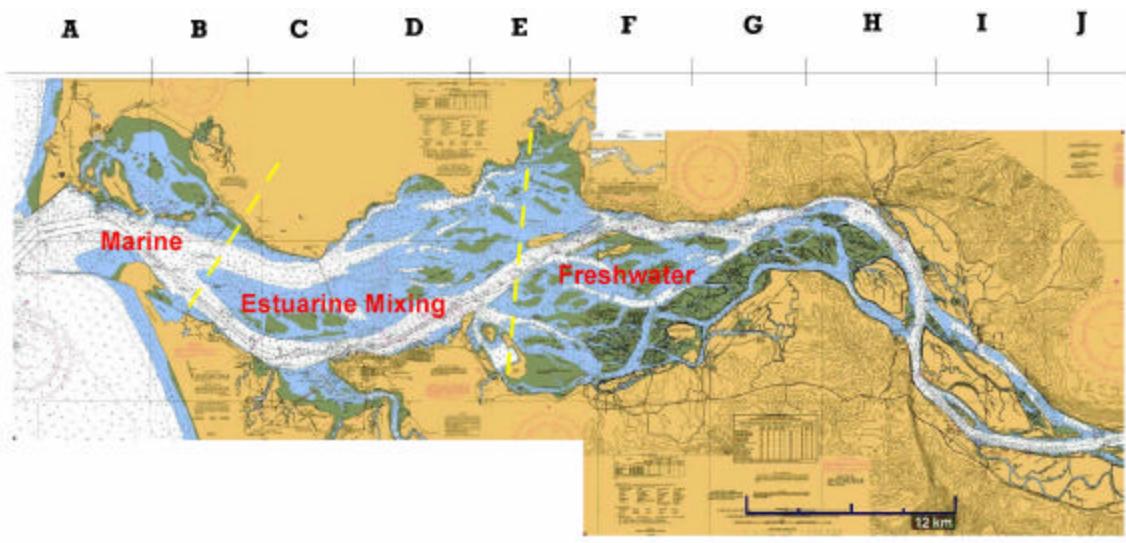
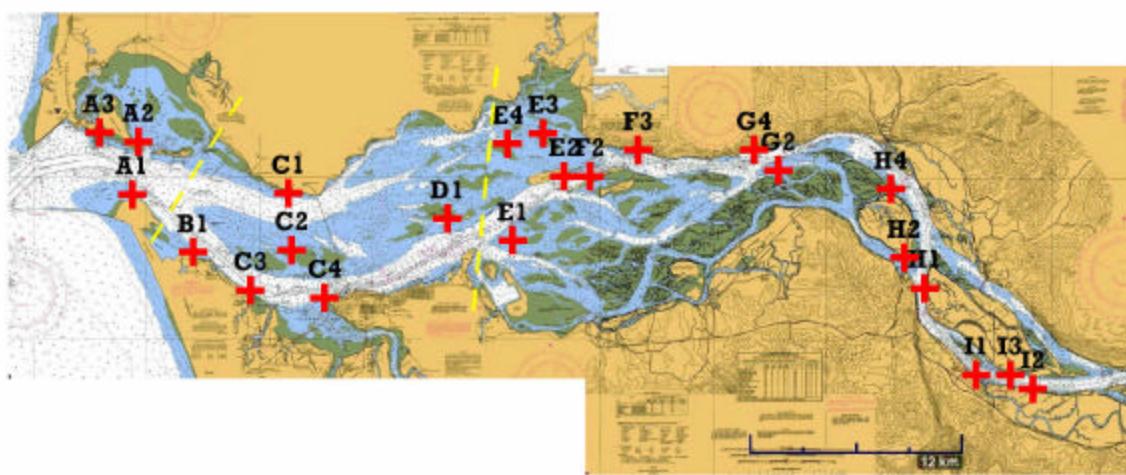


Figure D3-1a: The Columbia River Estuary, Showing Approximate Boundaries of Salinity Zones (from Bottom, et al., 1984) and East-West Analysis Areas A-J



D3-1b: Stations Sampled With Beach Seine, All Years

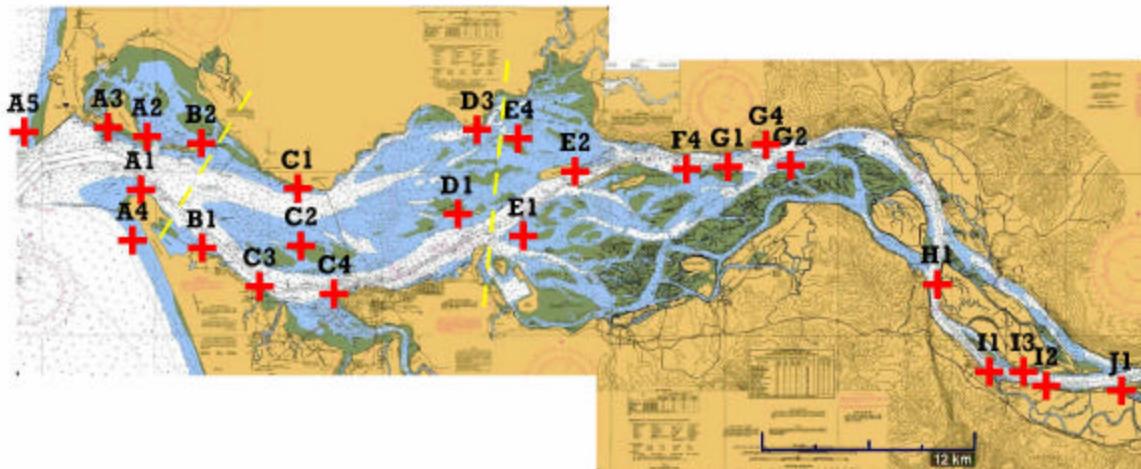


Figure D3-1c: Stations Sampled With Purse Seine, All Years

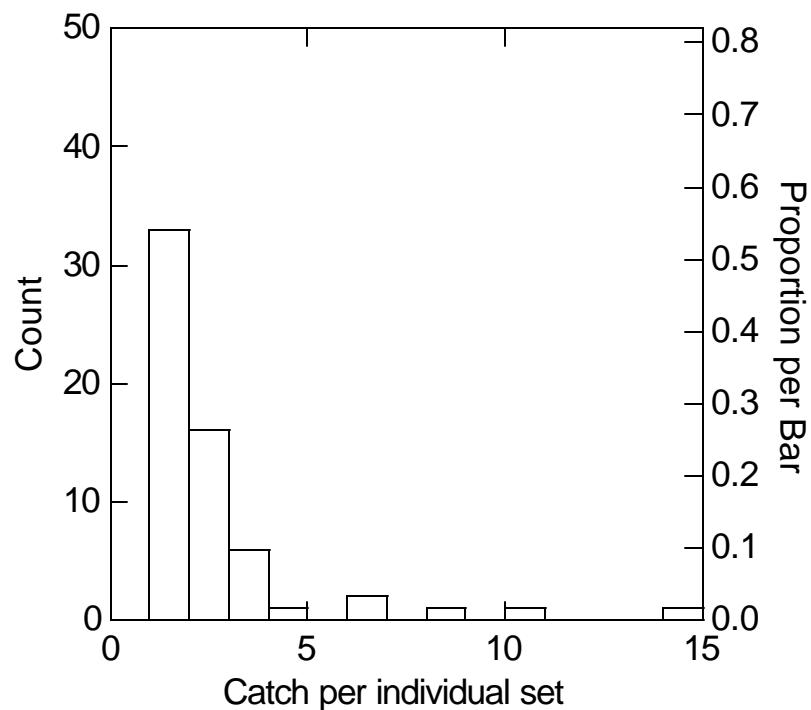


Figure D3-2: Frequency Distribution of Catch Per Purse Seine Set, For All Data Recorded By Individual Set

Note: Data were not available for beach seining

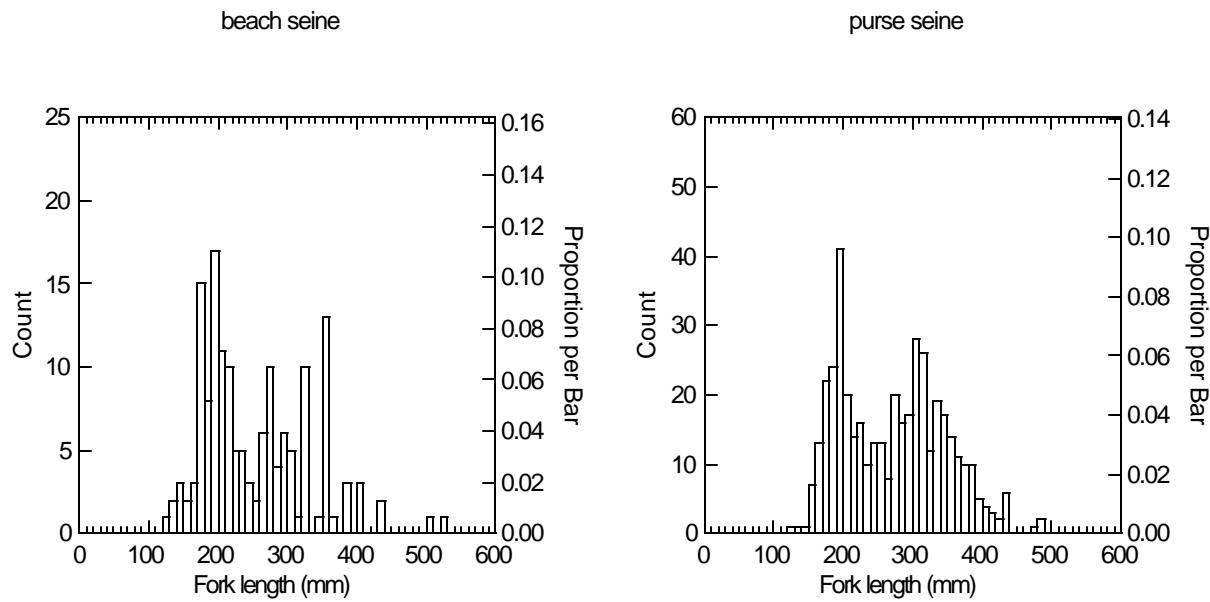


Figure D3-3 Length Frequency Distribution of All Cutthroat Sampled in the Columbia Estuary by Beach and Purse Seine, All Dates and Locations Combined

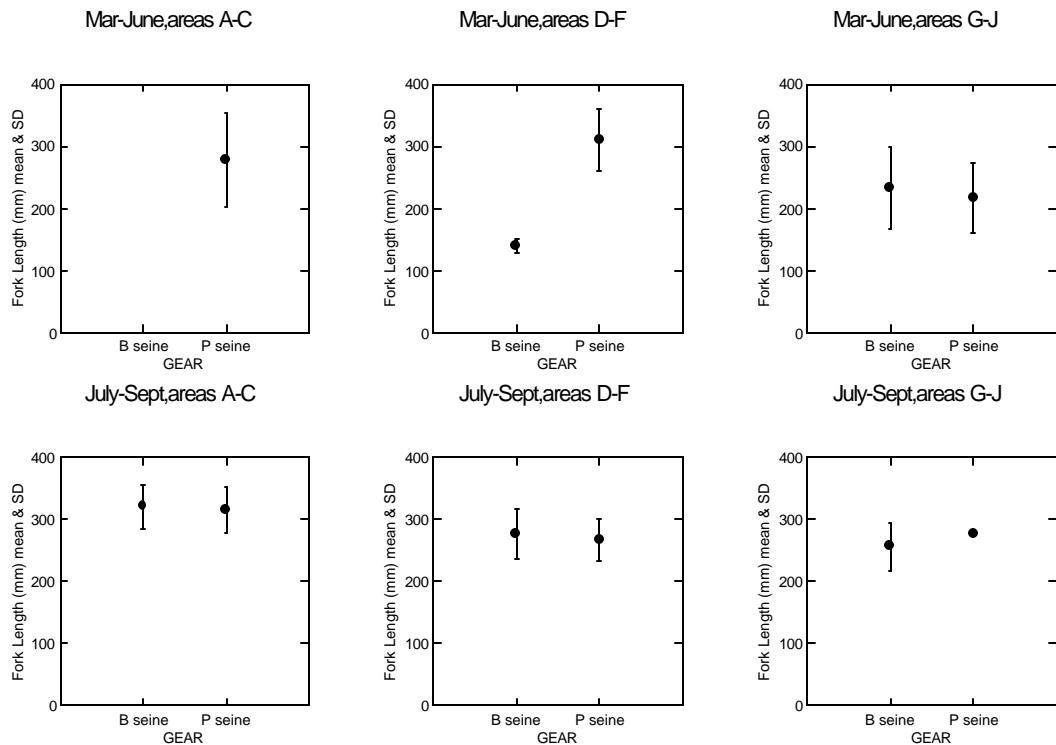


Figure D3-4. Fork Length (mm) of Cutthroat Trout in Beach and Purse Seine Catches in the Columbia River Estuary, Subdivided by Portion of the Estuary and Time of Year

Note: All years of data were pooled for these plots.

Table D3-1 Data About Cutthroat Trout in the Columbia River Estuary, by Year

Year	Data obtained		
	Beach seine	Purse seine	Trawl
1966			x
1967	x	x	
1968	x	x	
1969	x	x	
1970	x		
1971		x	
1972			
1973			
1974			
1975			
1976			
1977			
1978	x	x	
1979		x	
1980		x	

Obtained from Hammond Laboratory Records

Table D3-2a&b Beach Seine Sampling Effort (a) as Sets Per Area Per Month and CPUE (b) as Catch Per Set

Gear	Year	Month	Area										Total
			A	B	C	D	E	F	G	H	I	J	
beach seine	67	Feb		4	2				7	34			47
"	"	Mar								64	13		77
"	"	Apr		1	4	4	3		5	63	12		92
"	"	Aug	42	4	39	11	32	2	4	66	13		213
"	"	Sept	3				3			24			30
"	"	Oct								15			15
"	"	Nov								2			2
"	"	Dec								3			3
"	68	Jan								2			2
"	"	Feb								6			6
"	"	Mar	6				9		5	18	7		45
"	"	Apr			3	4	10	2	4	103			126
"	"	May								11			11
"	"	Aug	14	7	7	2	12	2		8			52
"	"	Sept				2	2						4
"	69	Aug	13		8					10	16		47
"	"	Sept	9	4	7								20
"	"	Oct				9	16						25
"	70	May	13		2								15
"	"	June	119	6				10					135
"	"	July	28	43	3				6	9	4	7	100
"	"	Aug	2										2
"	"	Sept		2									2
"	78	Apr	48										48
"	"	May	61										61
"	"	June	54										54
"	"	July	9										9
"	"	Sept	7										7
		Total	428	71	75	32	87	16	31	438	65	7	1250

Gear	Year	Month	Area										Mean
			A	B	C	D	E	F	G	H	I	J	
beach seine	67	Feb		0.00	0.00				0.00	0.03			0.01
"	"	Mar								0.00	0.00		0.00
"	"	Apr		0.00	0.00	0.00	0.00		0.00	0.22	0.33		0.08
"	"	Aug	0.02	0.00	0.00	0.00	0.31	0.00	0.25	0.35	0.00		0.10
"	"	Sept	0.00				0.00			0.00			0.00
"	"	Oct								0.00			0.00
"	"	Nov								0.00			0.00
"	"	Dec							0.00				0.00
"	68	Jan								0.00			0.00
"	"	Feb								0.00			0.00
"	"	Mar	0.00				0.00		1.00	0.00	0.57		0.31
"	"	Apr		0.00	0.00	0.00	0.00	0.00	0.00	0.68			0.11
"	"	May								1.82			1.82
"	"	Aug	0.07	0.00	0.14	0.00	0.67	0.50		0.00			0.20
"	"	Sept			2.00	1.50							1.75
"	69	Aug	0.31		0.50				0.80	0.44			0.51
"	"	Sept	0.00	0.00	0.14								0.05
"	"	Oct			0.00	0.00							0.00
"	70	May	0.00		0.00								0.00
"	"	June	0.00	0.00			0.60						0.20
"	"	July	0.00	0.00	0.00			16.67	0.00	2.00	0.00		2.67
"	"	Aug	0.00										0.00
"	"	Sept	0.00										0.00
"	78	Apr	0.00										0.00
"	"	May	0.18										0.18
"	"	June	0.04										0.04
"	"	July	0.00										0.00
"	"	Sept	0.00										0.00

Table D3-3a&b Purse Seine Sampling Effort (a) as Sets Per Area Per Month and CPUE (b) as Catch Per Set

Gear	Year	Month	Area										Total
			A	B	C	D	E	F	G	H	I	J	
purse seine	67	May							49				49
"	"	June							22				22
"	"	July	27	2	23	5	17		3	37	66		180
"	"	Aug					3						3
"	68	Apr							9	15			24
"	"	May							4	5		3	12
"	"	June							10				10
"	"	Aug		2	18	22							42
"	69	Feb					2						2
"	"	Mar					12						12
"	"	Apr					14		27	2	1		44
"	"	June				22	9		15				46
"	"	July	19		16	5			16				56
"	"	Aug	11										11
"	71	Mar					2	3					5
"	"	Apr			9	20	30		4				63
"	"	May		27	20				8				55
"	"	June		7	70								77
"	78	Apr				25							25
"	"	May				60							60
"	"	June				62							62
"	"	July				24		3					27
"	"	Aug				18							18
"	"	Sept				17							17
"	79	May				7							7
"	"	June				26							26
"	"	July				35							35
"	"	Aug				36	7						43
"	"	Sept				37							37
"	80	July				39							39
		Total	57	36	548	97	72	3	167	59	67	3	1109

Gear	Year	Month	Area										Mean
			A	B	C	D	E	F	G	H	I	J	
purse seine	67	May							2.78				2.78
"	"	June							0.05				0.05
"	"	July	0.00	0.00	0.00	0.00	0.06		0.00	0.00	0.02		0.01
"	"	Aug				0.00							0.00
"	68	Apr							0.22	0.27			0.24
"	"	May							0.75	1.60		8.33	3.56
"	"	June							0.20				0.20
"	"	Aug			0.00	0.44	0.18						0.21
"	69	Feb				0.00							0.00
"	"	Mar				0.00							0.00
"	"	Apr				0.07		0.26	0.00	0.00			0.08
"	"	June			0.09	0.33		0.33					0.25
"	"	July	1.47		0.00	0.00		0.00					0.37
"	"	Aug	0.36										0.36
"	71	Mar				0.00	0.33						0.17
"	"	Apr			0.67	0.70	0.83		0.00				0.55
"	"	May		1.59	1.35				1.50				1.48
"	"	June		0.57	0.59								0.58
"	78	Apr			0.04								0.04
"	"	May			0.37								0.37
"	"	June			0.24								0.24
"	"	July			0.00		0.00						0.00
"	"	Aug			1.00								1.00
"	"	Sept			0.47								0.47
"	79	May			0.00								0.00
"	"	June			0.15								0.15
"	"	July			2.63								2.63
"	"	Aug			2.42	2.14							2.28
"	"	Sept			0.95								0.95
"	80	July			0.44								0.44

Table D3-4a&b Sample Size (a) and Mean Fork Length (b) of Cutthroat Trout from Beach and Purse Seine Sets

Gear	Year	Month	Sample size by sampling area										Total
			A	B	C	D	E	F	G	H	I	J	
beach seine	67	Apr								11	4		15
	"	Aug	1			10		1	7				19
	68	Mar						5		4			9
	"	Apr							61				61
	"	May							20				20
	"	Aug	1		2		8	1					12
	"	Sept				4							4
	69	Aug	3		4								7
	"	Sept			1								1
	70	June				6							6
"	Beach seine total		5	7	4	18	7	6	99	8			154
purse seine	67	May						136					136
	"	June						1					1
	"	July				1				1			2
	68	Apr						2	4				6
	"	May						3	8		25		36
	"	June						2					2
	"	July											2
	"	Aug			5	4							11
	69	Apr				1		7					8
	"	June		2	3			5					10
	"	July	23										23
	"	Aug	2										2
	71	Mar				1							1
	"	Apr		6	14	25							47
	"	May	4	1			12						19
78	June		2										2
	"	Aug		9									9
	"	Sept		8									8
	79	June		2									2
	"	July		6									6
	"	Aug		67									67
	"	Sept		12									12
	80	July		14									14
	Purse seine total		25	4	129	23	31	168	12	1	25		427
Mean fork length (mm) by sampling area													
Gear	Year	Month	A	B	C	D	E	F	G	H	I	J	Total
beach seine	67	Apr							303	343			323
	"	Aug	263			281		197	264				251
	68	Mar						340		374			357
	"	Apr							228				228
	"	May							192				192
	"	Aug	330		305		271	213					280
	"	Sept				330							330
	69	Aug	321		333								327
	"	Sept		350									350
	70	June					141						141
Beach seine total		305	329	330	276	177	269	247	358				283
purse seine	67	May						210					210
	"	June						218					218
	"	July			255				275				265
	68	Apr						254	254				254
	"	May						310	251		186		249
	"	June						221					221
	"	July											249
	"	Aug		283	249								262
	69	Apr			330			341					335
	"	June	200	261			175						212
	"	July	298										298
	"	Aug	278										278
	71	Mar				352							352
	"	Apr		276	319	329							282
	"	May	301	298			305						316
	78	June		268									268
	"	Aug		305									305
	"	Sept		315									315
	79	June		393									393
	"	July		326									326
	"	Aug		327									327
	"	Sept		308									308
	80	July		352									352
Purse seine total		288	301	306	298	296		254	252	275	186		285

Attachment D3-1: Raw Data

Data codes:

Gear types: 1=beach, 2=purse, 3=trawl; 4=unknown.

Missing values: -999 = missing (e.g. fish caught but no lengths recorded), blank = no data (e.g. no lengths from sets with no catch)

Area	StationLocatName	Lon	Lat	Month	Day	Year	Gear	TotSets	SetNum	Count	FkLenmm	LenSource
H	H1PUGET ISL	-123.42710	46.19366	2	7	67	1	8		0		cards
H	H1PUGET ISL	-123.42710	46.19366	2	7	67	1	-999		-999		cards
H	H1500 YDS UP FROM JETTY /PUGET ISL	-123.42710	46.19366	2	10	67	1	6		0		cards
H	H1PUGET ISL	-123.42710	46.19366	2	10	67	1	6		0		cards
H	H2noname	-123.44210	46.20923	2	10	67	1	2		0		cards
H	H2noname	-123.44210	46.20923	2	10	67	1	-999		-999		cards
H	H1PUGET ISL	-123.42710	46.19366	2	14	67	1	6	1	1		cards
H	H1PUGET ISL	-123.42710	46.19366	2	14	67	1	-999		-999		cards
B	B11000 YDS BELOW PNT ADAMS	-123.96482	46.21204	2	20	67	1	4		0		cards
B	B11000 YDS BELOW PNT ADAMS	-123.96482	46.21204	2	20	67	1	-999		-999		cards
C	C1200 YDS DOWN FROM OLD CHRUCH	-123.89520	46.24229	2	20	67	1	2		0		cards
C	C1200 YDS DOWN FROM OLD CHRUCH	-123.89520	46.24229	2	20	67	1	-999		-999		cards
G	G4JIM CROW PNT	-123.55249	46.26457	2	21	67	1	7		0		cards
G	G4JIM CROW PNT	-123.55249	46.26457	2	21	67	1	-999		-999		cards
H	H1PUGET ISL	-123.42710	46.19366	2	24	67	1	4		0		cards
H	H1PUGET ISL	-123.42710	46.19366	2	24	67	1	-999		-999		cards
H	H2BRADWOOD	-123.44210	46.20923	2	24	67	1	2		0		cards

H	H4BRADWOOD		-123.45208	46.24439	2	24	67	1	2	0	cards		
I	I2JUST SO. OF WESTPORT SLOUGH ORE. SHORE		-123.34754	46.14202	3	1	67	1	8	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	3	2	67	1	4	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	3	6	67	1	6	0	cards		
I	I2BETWEEN FIRST AND SECOND JETTY ABOVE WESTPORT SLOUGH		-123.34754	46.14202	3	8	67	1	5	0	cards		
H	H1LOWER END OF PUGET ISL		-123.42710	46.19366	3	13	67	1	12	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	3	15	67	1	7	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	3	17	67	1	3	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	3	20	67	1	11	0	cards		
H	H1LOWER END OF PUGET ISL		-123.42710	46.19366	3	21	67	1	4	0	cards		
H	H1LOWER END OF PUGET ISL		-123.42710	46.19366	3	24	67	1	7	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	3	28	67	1	6	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	3	31	67	1	4	0	cards		
G	G4JIM CROW PNT		-123.55249	46.26457	4	3	67	1	5	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	4	4	67	1	7	0	cards		
B	B1PNT ADAMS		-123.96482	46.21204	4	5	67	1	1	0	cards		
C	C1300 YDS DOWN FROM OLD CHRUCH AT MCGOWAN		-123.89520	46.24229	4	5	67	1	4	0	cards		
D	D1SOUTH BEACH TAYLOR SANDS?		-123.77808	46.22935	4	6	67	1	4	0	cards		
E	E1DOWN STREAM END		-123.73014	46.21813	4	6	67	1	3	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	4	7	67	1	3	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	4	11	67	1	-999	1	-999	-999	cards
H	H1PUGET ISL		-123.42710	46.19366	4	12	67	1	4	1	1	285	cards
H	H1PUGET ISL		-123.42710	46.19366	4	12	67	1	4	3	1	315	cards

H	H1PUGET ISL		-123.42710	46.19366	4	13	67	1	10	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	4	17	67	1	10	0	cards		
I	I3UPPER END PUGET ISL SHIP CHANL		-123.36420	46.14923	4	19	67	1	10	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	4	20	67	1	9	4	1	406	cards
H	H1PUGET ISL		-123.42710	46.19366	4	20	67	1	9	7	1	355	cards
H	H1PUGET ISL		-123.42710	46.19366	4	20	67	1	9	9	1	355	cards
H	H1PUGET ISL		-123.42710	46.19366	4	20	67	1	9	9	1	355	cards
H	H1PUGET ISL		-123.42710	46.19366	4	21	67	1	3	2	1	355	cards
H	H1PUGET ISL		-123.42710	46.19366	4	21	67	1	3	2	1	305	cards
I	I1WESTPORT ISL		-123.38920	46.14924	4	24	67	1	2	1	1	305	cards
I	I1WESTPORT ISL		-123.38920	46.14924	4	24	67	1	2	1	1	305	cards
I	I1WESTPORT ISL		-123.38920	46.14924	4	24	67	1	2	1	1	355	cards
I	I1WESTPORT ISL		-123.38920	46.14924	4	24	67	1	2	1	1	406	cards
H	H1PUGET ISL		-123.42710	46.19366	4	26	67	1	8	1	1	178	cards
H	H1PUGET ISL		-123.42710	46.19366	4	26	67	1	8	1	1	209	cards
H	H1PUGET ISL		-123.42710	46.19366	4	26	67	1	8	6	1		cards
H	H1PUGET ISL		-123.42710	46.19366	4	26	67	1	8	7	1		cards
H	H1PUGET ISL		-123.42710	46.19366	4	26	67	1	8	8	1		cards
H	H1PUGET ISL		-123.42710	46.19366	4	27	67	1	3	3	1	210	cards
H	H1PUGET ISL		-123.42710	46.19366	4	28	67	1	6	0			cards
H	H1PUGET ISL		-123.42710	46.19366	8	3	67	1	6	5	1	260	cards
H	H2BRADWOOD		-123.44210	46.20923	8	3	67	1	3	0			cards
D	D1TAYLOR SANDS		-123.77808	46.22935	8	4	67	1	2	0			cards

E	E1BRUM BEACH		-123.73014	46.21813	8	4	67	1	7	0	cards
E	E2RICE ISL		-123.69220	46.25096	8	7	67	1	7	0	cards
A	A1SLOUGH		-124.00983	46.24173	8	8	67	1	2	0	cards
A	A1noname		-124.00983	46.24173	8	8	67	1	4	0	cards
A	A2noname		-124.00524	46.26876	8	8	67	1	2	0	cards
C	C1MCGOWAN		-123.89520	46.24229	8	8	67	1	3	0	cards
H	H1PUGET ISL		-123.42710	46.19366	8	8	67	1	3	0	cards
I	I2noname		-123.34754	46.14202	8	8	67	1	5	0	cards
H	H1PUGET ISL		-123.42710	46.19366	8	9	67	1	8	0	cards
A	A1above clatsop spit		-124.00983	46.24173	8	10	67	1	8	0	cards
A	A1SO JETTY BY ROAD		-124.00983	46.24173	8	10	67	1	1	0	cards
D	D1TAYLOR SANDS		-123.77808	46.22935	8	10	67	1	1	0	cards
D	D9TANNY PNT		-999.00000	-999.00000	8	10	67	1	2	0	cards
E	E5GOVT ISL		-999.00000	-999.00000	8	10	67	1	2	0	cards
D	D1TAYLOR SANDS		-123.77808	46.22935	8	11	67	1	2	0	cards
E	E2RICE ISL		-123.69220	46.25096	8	11	67	1	2	0	cards
E	E3NE END RICE ISL		-123.70762	46.27312	8	11	67	1	2	0	cards
E	E4GEORGE ROLLINGS MUD FLAT GRAYS BAY		-123.73388	46.26765	8	11	67	1	2	0	cards
H	H1PUGET ISL		-123.42710	46.19366	8	11	67	1	5	0	cards
A	A2SAND ISL		-124.00524	46.26876	8	14	67	1	2	0	cards
A	A3ILLWACO		-124.03401	46.27350	8	14	67	1	4	0	cards
C	C1MCGOWAN		-123.89520	46.24229	8	14	67	1	2	0	cards
A	A1CLATSOP SPIT		-124.00983	46.24173	8	15	67	1	2	0	cards

B	B1ADAMS PNT		-123.96482	46.21204	8	15	67	1	4	0	cards
C	C1MCGOWAN		-123.89520	46.24229	8	15	67	1	4	0	cards
C	C2MID RIVER OFF BRIDGE		-123.89271	46.21321	8	15	67	1	2	0	cards
D	D1TAYLOR SANDS		-123.77808	46.22935	8	16	67	1	2	0	cards
E	E1BURNS BEACH		-123.73014	46.21813	8	16	67	1	2	0	cards
E	E2RICE ISL		-123.69220	46.25096	8	16	67	1	3	3	1
E	E2RICE ISL		-123.69220	46.25096	8	16	67	1	3	3	1
E	E2RICE ISL		-123.69220	46.25096	8	16	67	1	3	3	1
E	E2RICE ISL		-123.69220	46.25096	8	16	67	1	3	3	1
E	E2RICE ISL		-123.69220	46.25096	8	16	67	1	3	3	1
E	E2RICE ISL		-123.69220	46.25096	8	16	67	1	3	3	1
E	E2RICE ISL		-123.69220	46.25096	8	16	67	1	3	3	1
E	E2RICE ISL		-123.69220	46.25096	8	16	67	1	3	3	1
E	E2RICE ISL		-123.69220	46.25096	8	16	67	1	3	3	1
E	E2RICE ISL		-123.69220	46.25096	8	16	67	1	3	3	1
E	E2RICE ISL		-123.69220	46.25096	8	16	67	1	3	3	1
E	E2RICE ISL		-123.69220	46.25096	8	16	67	1	3	3	1
E	E5LITTLE RICE ISL OFF ALTOUNA		-999.00000	-999.00000	8	16	67	1	2	0	cards
H	H1PUGET ISL		-123.42710	46.19366	8	16	67	1	8	0	cards
A	A3ILLWACO ENTRANCE		-124.03401	46.27350	8	17	67	1	8	0	cards
C	C2MID RIVER OFF BRIDGE		-123.89271	46.21321	8	17	67	1	2	0	cards
C	C3WARENTON ENTRANCE		-123.92314	46.19246	8	18	67	1	5	0	cards
C	C4MOUTH OF YOUNG RIVER		-123.86854	46.18872	8	18	67	1	3	0	cards
C	C5DESDEONIA SANDS		-999.00000	-999.00000	8	18	67	1	4	0	cards
A	A1CLATSOP SPIT		-124.00983	46.24173	8	21	67	1	3	0	cards

A	A2ILLWACO CHNL		-124.00524	46.26876	8	21	67	1	2	1	1	263	cards
C	C3WARENTON MOUTH OF SKIPANON RV		-123.92314	46.19246	8	21	67	1	5		0		cards
H	H1PUGET ISL		-123.42710	46.19366	8	21	67	1	11	6	4	-999	cards
H	H1PUGET ISL		-123.42710	46.19366	8	21	67	1	11	6	4	-999	cards
H	H1PUGET ISL		-123.42710	46.19366	8	21	67	1	11	6	4	-999	cards
H	H1PUGET ISL		-123.42710	46.19366	8	21	67	1	11	6	4	-999	cards
H	H1PUGET ISL		-123.42710	46.19366	8	21	67	1	11	6	4	-999	cards
C	C1BURNS BEACH		-123.89520	46.24229	8	22	67	1	5		0		cards
D	D1TAYLOR SANDS		-123.77808	46.22935	8	22	67	1	2		0		cards
I	I2noname		-123.34754	46.14202	8	22	67	1	8		0		cards
-999	-9991/4MILE BELOW PNT ELIS SAND BAR BELOW BRIDGE WASHINGTON SIDE		-999.00000	-999.00000	8	23	67	1	2		0		cards
C	C1MCGOWAN		-123.89520	46.24229	8	23	67	1	4		0		cards
F	F2ACROSS FROM ALTOONA		-123.67333	46.25106	8	23	67	1	2		0		cards
G	G4JIM CROW PNT		-123.55249	46.26457	8	23	67	1	2		0		cards
H	H1PUGET ISL		-123.42710	46.19366	8	23	67	1	9	6	1	254	cards
A	A2ILWACO		-124.00524	46.26876	8	24	67	1	6		0		cards
H	H1PUGET ISL		-123.42710	46.19366	8	28	67	1	11	1	1	278	cards
H	H1PUGET ISL		-123.42710	46.19366	8	28	67	1	11	1	1	291	cards
H	H1PUGET ISL		-123.42710	46.19366	8	28	67	1	11	4	1	289	cards
H	H1PUGET ISL		-123.42710	46.19366	8	30	67	1	2	1	1	271	cards
H	H1PUGET ISL		-123.42710	46.19366	8	30	67	1	2	1	1	207	cards
E	E1BURNS BEACH		-123.73014	46.21813	8	31	67	1	3		0		cards
G	G4JIM CROW PNT		-123.55249	46.26457	8	31	67	1	2	1	1	197	cards
H	H1PUGET ISL		-123.42710	46.19366	9	7	67	1	4		0		cards

H	H2BRADWOOD		-123.44210	46.20923	9	7	67	1	4	0	cards		
H	H1PUGET ISL		-123.42710	46.19366	9	13	67	1	-999	4	-999	-999	cards
H	H1PUGET ISL		-123.42710	46.19366	9	13	67	1	-999	4	-999	-999	cards
H	H1PUGET ISL		-123.42710	46.19366	9	14	67	1	10	0			cards
A	A3ILWACO CHNL		-124.03401	46.27350	9	18	67	1	3	0			cards
E	E1BURNS BEACH		-123.73014	46.21813	9	18	67	1	3	0			cards
H	H1PUGET ISL		-123.42710	46.19366	9	26	67	1	6	0			cards
H	H1PUGET ISL		-123.42710	46.19366	10	11	67	1	5	0			cards
H	H1PUGET ISL		-123.42710	46.19366	10	19	67	1	5	0			cards
H	H1PUGET ISL		-123.42710	46.19366	10	30	67	1	5	0			cards
H	H1PUGET ISL		-123.42710	46.19366	11	9	67	1	-999	1	-999	-999	cards
H	H1PUGET ISL		-123.42710	46.19366	11	9	67	1	-999	1	-999	-999	cards
H	H1PUGET ISL		-123.42710	46.19366	11	15	67	1	2	0			cards
H	H1PUGET ISL		-123.42710	46.19366	12	1	67	1	3	0			cards
-999	-999NORTH CHNL JUST BEFORE LIGHT #3		-999.00000	-999.00000	4	20	67	2	-999	0	-999		cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	4	25	67	2	-999	0	-999		cards
G	G2noname		-123.53468	46.25398	4	27	67	2	-999	0	-999		cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	4	28	67	2	-999	0	-999		cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	2	67	2	-999	0	-999		cards
G	G2UPPER WOODY ISL CHNL		-123.53468	46.25398	5	3	67	2	2	1	1	174	cards
G	G2UPPER WOODY ISL CHNL		-123.53468	46.25398	5	4	67	2	4	1	1	482	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	5	67	2	3	1	1	240	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	5	67	2	3	2	1	355	cards

G	G2WOODY ISL CHNL	-123.53468	46.25398	5	5	67	2	3	2	1	381	cards
E	E2noname	-123.69220	46.25096	5	8	67	2	-999	0	-999		cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	9	67	2	4	?	1	192	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	9	67	2	4	?	1	194	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	10	67	2	3	?	1	200	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	10	67	2	3	?	1	210	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	10	67	2	3	?	1	124	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	10	67	2	3	?	1	232	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	10	67	2	3	?	1	350	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	10	67	2	3	?	1	350	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	10	67	2	3	?	1	365	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	10	67	2	3	?	1	209	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	11	67	2	2	?	1	220	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	11	67	2	2	?	1	230	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	11	67	2	2	?	1	235	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	11	67	2	2	?	1	225	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	11	67	2	2	?	1	220	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	11	67	2	2	?	1	240	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	11	67	2	2	?	1	210	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	200	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	200	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	190	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	195	cards

G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	173	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	215	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	183	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	195	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	190	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	185	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	190	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	165	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	200	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	1	1	245	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	12	67	2	3	2	1	190	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	15	67	2	2	1	1	215	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	15	67	2	2	1	1	190	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	15	67	2	2	1	1	188	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	15	67	2	2	1	1	190	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	15	67	2	2	1	1	210	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	15	67	2	2	1	1	175	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	15	67	2	2	1	1	205	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	15	67	2	2	1	1	175	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	15	67	2	2	1	1	178	cards
G	G2UPPER WOODY ISL CHNL	-123.53468	46.25398	5	15	67	2	2	1	1	305	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	355	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	180	cards

G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	170	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	210	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	165	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	180	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	210	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	190	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	163	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	175	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	180	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	200	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	180	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	160	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	16	67	2	3	?	1	215	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	185	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	160	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	203	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	195	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	230	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	221	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	250	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	195	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	205	cards

G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	192	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	168	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	204	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	194	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	190	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	190	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	220	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	215	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	260	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	150	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	224	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	200	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	270	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	190	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	273	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	232	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	304	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	176	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	196	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	160	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	250	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	175	cards
G	G2WOODY ISL CHNL	-123.53468	46.25398	5	17	67	2	2	?	1	245	cards

G	G2WOODY ISL CHNL		-123.53468	46.25398	5	18	67	2	3	?	1	190	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	18	67	2	3	?	1	190	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	18	67	2	3	?	1	190	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	18	67	2	3	?	1	210	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	18	67	2	3	?	1	185	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	18	67	2	3	?	1	180	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	18	67	2	3	?	1	188	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	18	67	2	3	?	1	210	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	19	67	2	5	?	1	201	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	19	67	2	5	?	1	204	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	19	67	2	5	?	1	174	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	19	67	2	5	?	1	260	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	19	67	2	5	?	1	222	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	305	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	330	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	195	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	240	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	180	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	170	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	165	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	162	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	181	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	220	cards

G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	195	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	175	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	150	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	230	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	170	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	190	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	22	67	2	3	?	1	170	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	23	67	2	3	?	1	155	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	23	67	2	3	?	1	192	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	23	67	2	3	?	1	183	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	23	67	2	3	?	1	201	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	24	67	2	2	?	1	194	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	24	67	2	2	?	1	200	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	24	67	2	2	?	1	207	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	24	67	2	2	?	1	220	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	24	67	2	2	?	1	178	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	25	67	2	4	?	1	225	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	5	26	67	2	1	1	1	205	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	6	7	67	2	5		0		cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	6	8	67	2	1		0		cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	6	8	67	2	4		0		cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	6	9	67	2	4	?	1	218	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	6	12	67	2	2		0		cards

G	G2WOODY ISL CHNL		-123.53468	46.25398	6	13	67	2	3	0	cards
G	G2WOODY ISL CHNL		-123.53468	46.25398	6	27	67	2	4	0	cards
H	H1PUGET ISL		-123.42710	46.19366	7	5	67	2	12	0	cards
I	I2HALF MILE UP WESTPORT SLOUGH		-123.34754	46.14202	7	5	67	2	6	0	cards
D	D1noname		-123.77808	46.22935	7	6	67	2	3	0	cards
E	E1noname		-123.73014	46.21813	7	6	67	2	5	0	cards
A	A1CLATSOP SPIT		-124.00983	46.24173	7	7	67	2	5	0	cards
I	I1WESTPORT SLOUGH		-123.38920	46.14924	7	7	67	2	1	0	cards
I	I1WESTPORT SLOUGH		-123.38920	46.14924	7	7	67	2	9	0	cards
I	I2WESTPORT BEACH		-123.34754	46.14202	7	10	67	2	8	?	1 275 cards
I	I3UPPER PUGET ISL ACROSS FROM LIGHT 62		-123.36420	46.14923	7	10	67	2	2	0	cards
H	H1PUGET ISL		-123.42710	46.19366	7	11	67	2	3	0	cards
I	I2HALF MILE UP WESTPORT SLOUGH		-123.34754	46.14202	7	11	67	2	10	0	cards
A	A1CLATSOP SPIT		-124.00983	46.24173	7	12	67	2	4	0	cards
A	A2SAND ISL		-124.00524	46.26876	7	12	67	2	2	0	cards
B	B2PNT ADAMS		-123.96565	46.26531	7	12	67	2	2	0	cards
C	C3WARRENTON ENTRANCE DN RIVER FROM SKIPANON		-123.92314	46.19246	7	12	67	2	2	0	cards
I	I2HALF MILE UP WESTPORT SLOUGH		-123.34754	46.14202	7	12	67	2	10	0	cards
E	E1BURNS BEACH		-123.73014	46.21813	7	13	67	2	5	0	cards
E	E2MILLER SANDS		-123.69220	46.25096	7	13	67	2	4	0	cards
H	H1PUGET ISL		-123.42710	46.19366	7	13	67	2	6	0	cards
C	C1MCGOWAN		-123.89520	46.24229	7	14	67	2	8	0	cards
A	A3ILWACO CHNL		-124.03401	46.27350	7	17	67	2	4	0	cards

I	I21/4 MILE ABOVE WESTPORT SLOUGH	-123.34754	46.14202	7	17	67	2	6	0	cards		
H	H1LOWER PUGET ISL	-123.42710	46.19366	7	18	67	2	2	0	cards		
I	I2WESTPORT	-123.34754	46.14202	7	18	67	2	10	0	cards		
I	I2WESTPORT	-123.34754	46.14202	7	19	67	2	3	0	cards		
A	A2SAND ISL	-124.00524	46.26876	7	21	67	2	1	0	cards		
C	C1MCGOWAN	-123.89520	46.24229	7	21	67	2	3	0	cards		
G	G4JIM CROW PNT	-123.55249	46.26457	7	24	67	2	3	0	cards		
A	A1PUGET ISL	-124.00983	46.24173	7	25	67	2	5	0	cards		
C	C2MID COLUMBIA ON ISL BEFORE BRIDGE	-123.89271	46.21321	7	25	67	2	2	0	cards		
C	C3WARRENTON INLET	-123.92314	46.19246	7	25	67	2	4	0	cards		
C	C4LONG SHORE WAREHOUSE	-123.86854	46.18872	7	25	67	2	2	0	cards		
H	H1LOWER PUGET ISL	-123.42710	46.19366	7	25	67	2	2	0	cards		
D	D1TAYLOR SANDS	-123.77808	46.22935	7	26	67	2	2	0	cards		
E	E2RICE ISL	-123.69220	46.25096	7	26	67	2	3	?	1	255	cards
H	H1PUGET ISL ACROSS FROM BRADWOOD	-123.42710	46.19366	7	27	67	2	5	0	cards		
A	A1CLATSOP SPIT	-124.00983	46.24173	7	31	67	2	2	0	cards		
A	A2SAND ISL	-124.00524	46.26876	7	31	67	2	2	0	cards		
A	A3ILWACO CHNL	-124.03401	46.27350	7	31	67	2	2	0	cards		
C	C1MCGOWAN BEACH	-123.89520	46.24229	7	31	67	2	2	0	cards		
H	H1PUGET ISL	-123.42710	46.19366	7	31	67	2	7	0	cards		
I	I2WESTPORT BEACH	-123.34754	46.14202	7	31	67	2	2	0	cards		
D	D1TONGUE PNT PIER 3	-123.77808	46.22935	8	1	67	2	1	0	cards		
D	D1TONGUE PNT PIER 3	-123.77808	46.22935	8	10	67	2	2	0	cards		

H	H1Puget Island		-123.42710	46.19366	1	23	68	1	2	0	cards		
H	H1Puget Island		-123.42710	46.19366	2	12	68	1	3	0	cards		
H	H1Lower End Puget Island		-123.42710	46.19366	2	29	68	1	3	0	cards		
I	I21/4 mi. upriver from Westport Slough		-123.34754	46.14202	3	8	68	1	3	0	cards		
H	H1W. end Puget Is.		-123.42710	46.19366	3	22	68	1	5	0	cards		
I	I2Btwn 1st & 2nd Jetty at Westport		-123.34754	46.14202	3	22	68	1	4	2	1	343	cards
I	I2Btwn 1st & 2nd Jetty at Westport		-123.34754	46.14202	3	22	68	1	4	2	1	368	cards
I	I2Btwn 1st & 2nd Jetty at Westport		-123.34754	46.14202	3	22	68	1	4	2	1	521	cards
I	I2Btwn 1st & 2nd Jetty at Westport		-123.34754	46.14202	3	22	68	1	4	4	1	263	cards
E	E1W. end Burns Beach		-123.73014	46.21813	3	25	68	1	3	0	cards		
G	G4Jim Crow Point		-123.55249	46.26457	3	26	68	1	5	1	1	305	cards
G	G4Jim Crow Point		-123.55249	46.26457	3	26	68	1	5	? 1	431	cards	
G	G4Jim Crow Point		-123.55249	46.26457	3	26	68	1	5	? 1	266	cards	
G	G4Jim Crow Point		-123.55249	46.26457	3	26	68	1	5	? 1	292	cards	
G	G4Jim Crow Point		-123.55249	46.26457	3	26	68	1	5	? 1	406	cards	
H	H1Puget Island		-123.42710	46.19366	3	27	68	1	8	0	cards		
A	A1East of Jetty		-124.00983	46.24173	3	28	68	1	3	0	cards		
A	A2Sand Is.		-124.00524	46.26876	3	28	68	1	3	0	cards		
E	E1Burns Is. West end		-123.73014	46.21813	3	28	68	1	4	0	cards		
E	E2SE Rice Is.		-123.69220	46.25096	3	28	68	1	2	0	cards		
H	H1Puget Island West end		-123.42710	46.19366	3	29	68	1	5	0	cards		
G	G4Jim Crow Point		-123.55249	46.26457	4	2	68	1	4	0	cards		
H	H1Puget Island West end		-123.42710	46.19366	4	2	68	1	5	0	cards		

D	D1Taylor Sands East		-123.77808	46.22935	4	3	68	1	4	0	cards		
E	E1E. Side Burns Is.		-123.73014	46.21813	4	3	68	1	2	0	cards		
E	E2Lone Is. At west end of Rice Is.		-123.69220	46.25096	4	3	68	1	4	0	cards		
F	F2Miller Sands		-123.67333	46.25106	4	3	68	1	2	0	cards		
C	C3Warrington entrance		-123.92314	46.19246	4	5	68	1	3	0	cards		
E	E1Burns Beach		-123.73014	46.21813	4	5	68	1	4	0	cards		
H	H1Puget Island		-123.42710	46.19366	4	11	68	1	3	0	cards		
H	H2Bradwood Beach		-123.44210	46.20923	4	11	68	1	4	0	cards		
H	H1Puget Island		-123.42710	46.19366	4	16	68	1	4	3	1	305	cards
H	H1West End Puget Is.		-123.42710	46.19366	4	17	68	1	4	0	cards		
H	H1West End Puget Is.		-123.42710	46.19366	4	19	68	1	5	0	cards		
H	H1West End Puget Is.		-123.42710	46.19366	4	22	68	1	6	4	1	209	cards
H	H1West End Puget Is.		-123.42710	46.19366	4	23	68	1	12	2	1	186	cards
H	H1West End Puget Is.		-123.42710	46.19366	4	23	68	1	12	2	1	178	cards
H	H1West End Puget Is.		-123.42710	46.19366	4	23	68	1	12	2	1	198	cards
H	H1West End Puget Is.		-123.42710	46.19366	4	23	68	1	12	2	1	178	cards
H	H1West End Puget Is.		-123.42710	46.19366	4	23	68	1	12	2	1	178	cards
H	H1West End Puget Is.		-123.42710	46.19366	4	23	68	1	12	2	1	190	cards
H	H1West End Puget Is.		-123.42710	46.19366	4	24	68	1	10	?	1	381	cards
H	H1West End Puget Is.		-123.42710	46.19366	4	24	68	1	10	?	1	381	cards
H	H1West End Puget Is.		-123.42710	46.19366	4	24	68	1	10	?	1	381	cards
H	H1West End Puget Is.		-123.42710	46.19366	4	24	68	1	10	?	1	355	cards

H	H1West End Puget Is.	-123.42710	46.19366	4	24	68	1	10	?	1	355	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	24	68	1	10	?	1	206	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	24	68	1	10	?	1	210	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	24	68	1	10	?	1	209	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	24	68	1	10	?	1	156	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	24	68	1	10	?	1	179	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	24	68	1	10	?	1	198	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	24	68	1	10	?	1	195	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	223	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	170	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	196	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	180	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	279	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	355	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	508	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	208	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	127	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	211	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	208	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	196	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	25	68	1	16	?	1	193	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	26	68	1	12	?	1	330	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	26	68	1	12	?	1	240	cards

H	H1West End Puget Is.	-123.42710	46.19366	4	26	68	1	12	?	1	219	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	26	68	1	12		9		cards
H	H1West End Puget Is.	-123.42710	46.19366	4	29	68	1	11	?	1	238	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	29	68	1	11	?	1	230	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	29	68	1	11	?	1	355	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	29	68	1	11	?	1	209	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	29	68	1	11	?	1	220	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	29	68	1	11	?	1	220	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	29	68	1	11	?	1	210	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	29	68	1	11	?	1	214	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	29	68	1	11	?	1	197	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	29	68	1	11	?	1	185	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	29	68	1	11	?	1	220	cards
H	H1West End Puget Is.	-123.42710	46.19366	4	29	68	1	11	?	1	245	cards
H	H1Puget Island	-123.42710	46.19366	4	30	68	1	11	1	1	175	cards
H	H1Puget Island	-123.42710	46.19366	4	30	68	1	11	1	1	175	cards
H	H1Puget Island	-123.42710	46.19366	4	30	68	1	11	2	1	273	cards
H	H1Puget Island	-123.42710	46.19366	4	30	68	1	11	2	1	214	cards
H	H1Puget Island	-123.42710	46.19366	4	30	68	1	11	2	1	159	cards
H	H1Puget Island	-123.42710	46.19366	4	30	68	1	11	4	1	191	cards
H	H1Puget Island	-123.42710	46.19366	4	30	68	1	11	4	1	181	cards
H	H1Puget Island	-123.42710	46.19366	4	30	68	1	11	5	1	205	cards
H	H1Puget Island	-123.42710	46.19366	4	30	68	1	11	5	1	173	cards

H	H1Puget Island		-123.42710	46.19366	4	30	68	1	11	8	1	170	cards
H	H1Puget Island		-123.42710	46.19366	4	30	68	1	11	11	1	194	cards
H	H1Puget Island		-123.42710	46.19366	4	30	68	1	11	11	1	175	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	1	1	211	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	2	1	185	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	2	1	190	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	2	1	182	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	3	1	190	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	4	1	168	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	5	1	199	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	7	1	163	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	8	1	179	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	9	1	191	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	9	1	179	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	9	1	223	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	9	1	235	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	10	1	236	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	10	1	180	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	11	1	200	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	11	1	179	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	11	1	170	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	11	1	190	cards
H	H1Puget Island		-123.42710	46.19366	5	1	68	1	11	11	1	199	cards

H	H1Puget Island		-123.42710	46.19366	8	7	68	1	8	0		cards
A	A1Clatsop Spit Upper		-124.00983	46.24173	8	13	68	1	4	0		cards
A	A3Illwaco Channel		-124.03401	46.27350	8	13	68	1	6	0		cards
B	B1Ft. Stevens		-123.96482	46.21204	8	14	68	1	3	0		cards
C	C2McGowin		-123.89271	46.21321	8	14	68	1	4	1	1	330 cards
C	C2McGowin		-123.89271	46.21321	8	14	68	1	-999	1	-999	279 cards
C	C3Mouth of Skipanon		-123.92314	46.19246	8	14	68	1	3	0		cards
D	D1Taylor Sands		-123.77808	46.22935	8	15	68	1	2	0		cards
E	E1Burns Beach		-123.73014	46.21813	8	15	68	1	4	2	1	292 cards
E	E1Burns Beach		-123.73014	46.21813	8	15	68	1	4	2	1	266 cards
E	E1Burns Beach		-123.73014	46.21813	8	15	68	1	4	2	1	241 cards
E	E1Burns Beach		-123.73014	46.21813	8	15	68	1	4	3	1	292 cards
E	E2Upper Rice Is.		-123.69220	46.25096	8	15	68	1	6	3	1	266 cards
E	E2Upper Rice Is.		-123.69220	46.25096	8	15	68	1	6	3	1	292 cards
E	E2Upper Rice Is.		-123.69220	46.25096	8	15	68	1	6	4	1	187 cards
F	F6Between F-5 and F-6		-999.00000	-999.00000	8	15	68	1	2	?	1	213 cards
A	A2Sand Is.		-124.00524	46.26876	8	16	68	1	4	2	1	330 cards
B	B1Sand Is.		-123.96482	46.21204	8	16	68	1	4	0		cards
E	E1Burns Beach		-123.73014	46.21813	8	16	68	1	2	?	1	330 cards
D	D1Taylor Sands		-123.77808	46.22935	9	9	68	1	2	1	1	330 cards
D	D1Taylor Sands		-123.77808	46.22935	9	9	68	1	2	1	1	330 cards
D	D1Taylor Sands		-123.77808	46.22935	9	9	68	1	2	1	1	330 cards
D	D1Taylor Sands		-123.77808	46.22935	9	9	68	1	2	1	1	330 cards

E	E2Rice Is.		-123.69220	46.25096	9	9	68	1	2	1	2	cards	
E	E2Rice Is.		-123.69220	46.25096	9	9	68	1	2	2	1	cards	
G	G2Woody Island Channel		-123.53468	46.25398	4	22	68	2	4		0	cards	
H	H1Lower Puget Island		-123.42710	46.19366	4	23	68	2	2		0	cards	
-999	-999Puget Is. To Jim Crow Pt.		-999.00000	-999.00000	4	24	68	2	5		0	cards	
H	H1Channel off H-1		-123.42710	46.19366	4	25	68	2	4	4	1	270	cards
H	H1Channel off H-1, between Bradwood and Cathlamet channel		-123.42710	46.19366	4	26	68	2	6	5	1	308	cards
G	G2Woody Island Channel		-123.53468	46.25398	4	29	68	2	5	?	1	220	cards
G	G2Woody Island Channel		-123.53468	46.25398	4	29	68	2	5	?	1	287	cards
H	H1Channel off H-1, between Bradwood and Cathlamet channel		-123.42710	46.19366	4	30	68	2	3	1	1	251	cards
H	H1Channel off H-1, between Bradwood and Cathlamet channel		-123.42710	46.19366	4	30	68	2	3	3	1	185	cards
H	H1Channel off H-1, between Bradwood and Cathlamet channel		-123.42710	46.19366	5	1	68	2	5	2	1	205	cards
H	H1Channel off H-1, between Bradwood and Cathlamet channel		-123.42710	46.19366	5	1	68	2	5	4	1	217	cards
H	H1Channel off H-1, between Bradwood and Cathlamet channel		-123.42710	46.19366	5	1	68	2	5	4	1	300	cards
H	H1Channel off H-1, between Bradwood and Cathlamet channel		-123.42710	46.19366	5	1	68	2	5	4	1	200	cards
H	H1Channel off H-1, between Bradwood and Cathlamet channel		-123.42710	46.19366	5	1	68	2	5	4	1	431	cards
H	H1Channel off H-1, between Bradwood and Cathlamet channel		-123.42710	46.19366	5	1	68	2	5	5	1	186	cards
H	H1Channel off H-1, between Bradwood and Cathlamet channel		-123.42710	46.19366	5	1	68	2	5	5	1	220	cards
H	H1Channel off H-1, between Bradwood and Cathlamet channel		-123.42710	46.19366	5	1	68	2	5	5	1	245	cards
G	G2Woody Island Channel		-123.53468	46.25398	5	2	68	2	4	1	1	330	cards
G	G2Woody Island Channel		-123.53468	46.25398	5	2	68	2	4	1	1	220	cards
G	G2Woody Island Channel		-123.53468	46.25398	5	2	68	2	4	?	1	381	cards
J	J1Ship Channel from J-1 to I-2		-123.29254	46.13970	5	2	68	2	3	1	1	189	cards

J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	1	1	187	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	1	1	170	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	1	1	192	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	1	1	199	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	1	1	165	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	1	1	192	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	1	1	200	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	1	1	355	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	1	1	178	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	2	1	190	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	2	1	192	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	2	1	220	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	2	1	172	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	2	1	150	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	2	1	150	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	2	1	170	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	2	1	170	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	3	1	145	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	3	1	190	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	3	1	173	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	3	1	150	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	3	1	186	cards
J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	3	1	197	cards

J	J1Ship Channel from J-1 to I-2	-123.29254	46.13970	5	2	68	2	3	3	1	178	cards
G	G2Woody Island Channel	-123.53468	46.25398	6	12	68	2	4	4	1	250	cards
G	G2Woody Island Channel	-123.53468	46.25398	6	13	68	2	6	6	1	192	cards
-999	-999Lower Columbia	-999.00000	-999.00000	7	14	68	2	3		0		cards
-999	-999Lower Columbia	-999.00000	-999.00000	7	16	68	2	6		0		cards
-999	-999Lower Columbia	-999.00000	-999.00000	7	24	68	2	3	2	1	255	cards
-999	-999Lower Columbia	-999.00000	-999.00000	7	24	68	2	3	2	1	243	cards
E	E2Rice Island	-123.69220	46.25096	8	20	68	2	4		0		cards
E	E22nd Island above Rice Is.	-123.69220	46.25096	8	20	68	2	2		0		cards
-999	-999Between Water Sample Stations 1&2	-999.00000	-999.00000	8	21	68	2	2		0		cards
C	C2Along Desdamona Sands Off Hammond	-123.89271	46.21321	8	22	68	2	1		0		cards
E	E2Rice Island	-123.69220	46.25096	8	22	68	2	3		0		cards
C	C2McGowan	-123.89271	46.21321	8	23	68	2	1		0		cards
D	D1Off Astoria btwn Tongue Pt. & Taylor Sands	-123.77808	46.22935	8	23	68	2	2	?	1	271	cards
E	E2Rice Island	-123.69220	46.25096	8	26	68	2	6		0		cards
-999	-999Buoy #43	-999.00000	-999.00000	8	27	68	2	2	2	1	268	cards
-999	-999Buoy #43	-999.00000	-999.00000	8	27	68	2	1	1	1	240	cards
C	C1Meglar	-123.89520	46.24229	8	27	68	2	-999		-999		cards
D	D1Taylor Sands	-123.77808	46.22935	8	28	68	2	7	2	1	355	cards
D	D1Taylor Sands	-123.77808	46.22935	8	28	68	2	7	5	1	254	cards
D	D1Taylor Sands	-123.77808	46.22935	8	29	68	2	8	1	1	258	cards
D	D1Taylor Sands	-123.77808	46.22935	8	29	68	2	8	4	1	279	cards
D	D1Taylor Sands	-123.77808	46.22935	8	30	68	2	1	1	3		cards

E	E2Rice Island		-123.69220	46.25096	8	30	68	2	7	2	1	248	cards
E	E2Rice Island		-123.69220	46.25096	8	30	68	2	7	3	1	245	cards
E	E2Rice Island		-123.69220	46.25096	8	30	68	2	7	3	1	248	cards
E	E2Rice Island		-123.69220	46.25096	8	30	68	2	7	3	1	253	cards
-999	-999Off Maritime Base		-999.00000	-999.00000	3	28	69	1	1		0		cards
H	H1400 yards up from Ten Is.		-123.42710	46.19366	8	5	69	1	10	2	2		cards
H	H1400 yards up from Ten Is.		-123.42710	46.19366	8	5	69	1	10	1	6		cards
A	A1Clatsop Spit		-124.00983	46.24173	8	11	69	1	3		0		cards
I	I1Puget Island		-123.38920	46.14924	8	12	69	1	8	7	1		cards
I	I1Puget Island		-123.38920	46.14924	8	12	69	1	8	3	2		cards
I	I1Puget Island		-123.38920	46.14924	8	12	69	1	8	1	4		cards
I	I1Puget Island		-123.38920	46.14924	8	14	69	1	8		0		cards
A	A1Clatsop Spit		-124.00983	46.24173	8	20	69	1	4	4	1	279	cards
A	A1Clatsop Spit		-124.00983	46.24173	8	20	69	1	4	3	1	330	cards
A	A1Clatsop Spit		-124.00983	46.24173	8	20	69	1	4	2	1	355	cards
C	C1McGowan		-123.89520	46.24229	8	20	69	1	4	4	1	292	cards
C	C1McGowan		-123.89520	46.24229	8	20	69	1	4	4	1	330	cards
C	C1McGowan		-123.89520	46.24229	8	20	69	1	4	1	1	355	cards
C	C1McGowan		-123.89520	46.24229	8	20	69	1	4	4	1	355	cards
A	A1Clatsop Spit		-124.00983	46.24173	8	21	69	1	1		0		cards
A	A2Sand Island		-124.00524	46.26876	8	21	69	1	4		0		cards
C	C1McGowan		-123.89520	46.24229	8	21	69	1	3		0		cards
A	A1Clatsop Spit		-124.00983	46.24173	8	26	69	1	1		1		cards

C	C1McGowan		-123.89520	46.24229	8	26	69	1	1	0	cards
A	A1Clatsop Spit		-124.00983	46.24173	9	5	69	1	3	0	cards
B	B1Pt. Adams		-123.96482	46.21204	9	5	69	1	1	0	cards
C	C1McGowan		-123.89520	46.24229	9	5	69	1	3	1	350 cards
A	A1Clatsop Spit		-124.00983	46.24173	9	12	69	1	4	0	cards
C	C1McGowan		-123.89520	46.24229	9	12	69	1	4	0	cards
A	A1Clatsop Spit		-124.00983	46.24173	9	23	69	1	2	0	cards
B	B1Pt. Adams		-123.96482	46.21204	9	23	69	1	3	0	cards
D	D1Taylor Sands		-123.77808	46.22935	10	2	69	1	4	0	cards
E	E1Between N. Channel and ship channel		-123.73014	46.21813	10	2	69	1	4	0	cards
E	E2Upper Rice Island		-123.69220	46.25096	10	2	69	1	4	0	cards
D	D1Taylor Sands		-123.77808	46.22935	10	24	69	1	3	0	cards
E	E2Rice Island		-123.69220	46.25096	10	24	69	1	3	0	cards
D	D1Taylor Sands		-123.77808	46.22935	10	31	69	1	2	0	cards
E	E1Burns Beach		-123.73014	46.21813	10	31	69	1	5	0	cards
D	D1N. Channel 2 mi. SE of Tongue Pt.		-123.77808	46.22935	2	13	69	2	2	0	cards
D	D1N. Channel 1-3 mi. above Tongue Pt.		-123.77808	46.22935	3	27	69	2	3	0	cards
D	D1Taylor Sands in the shipping channel		-123.77808	46.22935	3	27	69	2	3	0	cards
D	D1N. Channel 1-3 mi. above Tongue Pt.		-123.77808	46.22935	3	28	69	2	3	0	cards
D	D1Taylor Sands in the shipping channel		-123.77808	46.22935	3	28	69	2	3	0	cards
-999	-999Jetty #60		-999.00000	-999.00000	4	3	69	2	1	0	cards
-999	-999Light #37		-999.00000	-999.00000	4	3	69	2	1	0	cards
-999	-999Water Station 10C		-999.00000	-999.00000	4	3	69	2	1	0	cards

H	H1500 yards below Puget Island	-123.42710	46.19366	4	3	69	2	1	0		cards
I	I3Puget Island Bradwood	-123.36420	46.14923	4	3	69	2	1	0		cards
G	G2Woody Is. Channel	-123.53468	46.25398	4	4	69	2	4	0		cards
G	G1Rockland & Woody Is. Channel	-123.58041	46.25334	4	9	69	2	2	0		cards
H	H1Main channel off H-1	-123.42710	46.19366	4	9	69	2	1	0		cards
G	G2Woody Is. Channel	-123.53468	46.25398	4	10	69	2	4	0		cards
G	G2Woody Is. Channel near Miller Sands	-123.53468	46.25398	4	10	69	2	2	0		cards
D	D1N. Channel near Tongue Pt.	-123.77808	46.22935	4	14	69	2	3	2	1	330
D	D1N. Channel near Tongue Pt.	-123.77808	46.22935	4	15	69	2	3	0		cards
D	D1N. Channel near Tongue Pt.	-123.77808	46.22935	4	16	69	2	3	0		cards
D	D1N. Channel near Tongue Pt.	-123.77808	46.22935	4	17	69	2	1	0		cards
D	D1N. Channel near Tongue Pt.	-123.77808	46.22935	4	18	69	2	4	0		cards
G	G2Woody Is. Channel	-123.53468	46.25398	4	23	69	2	5	2	1	317
G	G2Woody Is. Channel	-123.53468	46.25398	4	24	69	2	5	2	1	261
G	G2Woody Is. Channel	-123.53468	46.25398	4	24	69	2	5	3	1	297
G	G2Woody Is. Channel	-123.53468	46.25398	4	24	69	2	5	1	1	381
G	G2Woody Is. Channel	-123.53468	46.25398	4	25	69	2	7	6	1	317
G	G2Woody Is. Channel	-123.53468	46.25398	4	25	69	2	7	1	1	381
G	G2Woody Is. Channel	-123.53468	46.25398	4	25	69	2	7	4	1	431
G	G2Woody Is. Channel	-123.53468	46.25398	6	11	69	2	4	1	1	164
G	G2Woody Is. Channel	-123.53468	46.25398	6	11	69	2	4	2	1	198
G	G2Woody Is. Channel	-123.53468	46.25398	6	12	69	2	4	4	1	159
G	G2Woody Is. Channel	-123.53468	46.25398	6	12	69	2	4	3	1	169

G	G2Woody Is. Channel		-123.53468	46.25398	6	12	69	2	4	4	1	184	cards
C	C1WA side below Astoria Bridge		-123.89520	46.24229	6	13	69	2	3		0		cards
D	D1Tongue Pt. By ship channel		-123.77808	46.22935	6	13	69	2	1		0		cards
C	C1WA side below Astoria Bridge		-123.89520	46.24229	6	16	69	2	3		0		cards
D	D1Tongue Pt.		-123.77808	46.22935	6	16	69	2	1		0		cards
G	G2Woody Is. Channel		-123.53468	46.25398	6	17	69	2	3		0		cards
D	D1Tongue Pt. By ship channel		-123.77808	46.22935	6	19	69	2	3		0		cards
C	C1WA side below Astoria Bridge		-123.89520	46.24229	6	20	69	2	5	1	1	187	cards
C	C1WA side below Astoria Bridge		-123.89520	46.24229	6	23	69	2	3		0		cards
G	G2Woody Is. To Jim Crow Pt. Ship channel		-123.53468	46.25398	6	24	69	2	4		0		cards
D	D1Tongue Pt./Taylor Sands ship channel		-123.77808	46.22935	6	26	69	2	4	4	1	183	cards
D	D1Tongue Pt./Taylor Sands ship channel		-123.77808	46.22935	6	26	69	2	4	3	1	194	cards
D	D1Tongue Pt./Taylor Sands ship channel		-123.77808	46.22935	6	26	69	2	4	1	1	406	cards
C	C1WA side below Astoria Bridge		-123.89520	46.24229	6	27	69	2	4		0		cards
C	C1WA side below Astoria Bridge		-123.89520	46.24229	6	30	69	2	4	3	1	212	cards
G	G2Woody Is. Channel		-123.53468	46.25398	7	2	69	2	4		0		cards
C	C1WA side below Astoria Bridge		-123.89520	46.24229	7	7	69	2	4		0		cards
G	G2Woody Is. Ship channel		-123.53468	46.25398	7	8	69	2	6		0		cards
C	C1WA side below Astoria Bridge		-123.89520	46.24229	7	10	69	2	3		0		cards
C	C1WA side below Astoria Bridge		-123.89520	46.24229	7	11	69	2	3		0		cards
D	D3Gray's Pt.		-123.76390	46.27225	7	11	69	2	3		0		cards
C	C1WA side below Astoria Bridge		-123.89520	46.24229	7	14	69	2	4		0		cards
G	G2Woody Is. Ship channel		-123.53468	46.25398	7	15	69	2	6		0		cards

C	C1WA side below Astoria Bridge	-123.89520	46.24229	7	22	69	2	2	0		cards
D	D1Tongue Pt./Taylor Sands ship channel	-123.77808	46.22935	7	22	69	2	2	0		cards
A	A4South jetty	-124.01583	46.21596	7	25	69	2	6	0		cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	4	1	233 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	3	1	240 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	3	1	265 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	2	1	269 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	3	1	275 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	2	1	278 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	3	1	280 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	4	1	280 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	2	1	285 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	3	1	285 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	4	1	285 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	2	1	290 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	3	1	290 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	4	1	290 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	4	1	300 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	4	1	300 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	3	1	310 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	4	1	310 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	2	1	320 cards
A	A5North jetty	-124.09523	46.27101	7	28	69	2	6	3	1	320 cards

A	A5North jetty		-124.09523	46.27101	7	28	69	2	6	2	1	330	cards
A	A5North jetty		-124.09523	46.27101	7	28	69	2	6	2	1	330	cards
A	A5North jetty		-124.09523	46.27101	7	28	69	2	6	2	1	480	cards
A	A5North jetty		-124.09523	46.27101	7	28	69	2	6	4	2	-999	cards
A	A5North jetty		-124.09523	46.27101	7	28	69	2	6	5	3	-999	cards
A	A4South jetty		-124.01583	46.21596	7	29	69	2	7		0		cards
-999	-999Seaside		-999.00000	-999.00000	7	30	69	2	4		0		cards
A	A4South jetty		-124.01583	46.21596	7	31	69	2	6		0		cards
A	A4South jetty		-124.01583	46.21596	8	1	69	2	6	1	1	-999	cards
A	A4South jetty		-124.01583	46.21596	8	4	69	2	5	3	1	-999	cards
A	A4South jetty		-124.01583	46.21596	8	7	69	2	5	?	1	275	cards
A	A4South jetty		-124.01583	46.21596	8	7	69	2	5	?	1	280	cards
A	A4South jetty		-124.01583	46.21596	8	11	69	2	2		0		cards
A	A1Below Lagoon		-124.00983	46.24173	5	21	70	1	4		0		cards
A	A1Downstream from lagoon		-124.00983	46.24173	5	22	70	1	4		0		cards
A	A1Downstream from lagoon		-124.00983	46.24173	5	25	70	1	1		0		cards
C	C1Magar Church		-123.89520	46.24229	5	26	70	1	2		0		cards
A	A1Below Lagoon		-124.00983	46.24173	5	28	70	1	4		0		cards
A	A1Below Lagoon		-124.00983	46.24173	6	2	70	1	5		0		cards
A	A1Below Lagoon		-124.00983	46.24173	6	3	70	1	5		0		cards
A	A1Below Lagoon		-124.00983	46.24173	6	5	70	1	6		0		cards
A	A1BELOW LAGOON		-124.00983	46.24173	6	8	70	1	-999		-999		cards
A	A1CLATSOP SPIT		-124.00983	46.24173	6	8	70	1	12		0		cards

A	A1CLATSOP SPIT	-124.00983	46.24173	6	9	70	1	11	0	cards		
A	A1CLATSOP SPIT BELOW LAGOON	-124.00983	46.24173	6	10	70	1	12	0	cards		
A	A1CLATSOP SPIT BELOW LAGOON	-124.00983	46.24173	6	11	70	1	12	0	cards		
A	A1CLATSOP SPIT BELOW LAGOON	-124.00983	46.24173	6	12	70	1	8	0	cards		
B	B1POINT ADAMS CANNERY	-123.96482	46.21204	6	15	70	1	1	0	cards		
A	A1CLATSOP SPIT BELOW LAGOON	-124.00983	46.24173	6	16	70	1	10	0	cards		
A	A1CLATSOP SPIT BELOW LAGOON	-124.00983	46.24173	6	17	70	1	8	0	cards		
A	A1CLATSOP SPIT BELOW LAGOON	-124.00983	46.24173	6	18	70	1	7	0	cards		
A	A1CLATSOP SPIT BELOW LAGOON	-124.00983	46.24173	6	19	70	1	8	0	cards		
A	A1CLATSOP SPIT BELOW LAGOON	-124.00983	46.24173	6	22	70	1	5	0	cards		
A	A1CLATSOP SPIT BELOW LAGOON	-124.00983	46.24173	6	23	70	1	3	0	cards		
F	F3ELLIOT PNT .75 MILE ABOVE ALTOONA	-123.63791	46.26458	6	25	70	1	6	1	1	130	cards
F	F3ELLIOT PNT .75 MILE ABOVE ALTOONA	-123.63791	46.26458	6	25	70	1	6	4	1	135	cards
F	F3ELLIOT PNT .75 MILE ABOVE ALTOONA	-123.63791	46.26458	6	25	70	1	6	1	1	140	cards
F	F3ELLIOT PNT .75 MILE ABOVE ALTOONA	-123.63791	46.26458	6	25	70	1	6	1	1	140	cards
F	F3ELLIOT PNT .75 MILE ABOVE ALTOONA	-123.63791	46.26458	6	25	70	1	6	1	1	140	cards
F	F3ELLIOT PNT .75 MILE ABOVE ALTOONA	-123.63791	46.26458	6	25	70	1	6	2	1	160	cards
F	F3ELLIOT PNT	-123.63791	46.26458	6	26	70	1	4	0	cards		
A	A1CLATSOP SPIT (LAGOON)	-124.00983	46.24173	6	29	70	1	7	0	cards		
B	B1POINT ADAMS AND CLATSOP SPIT	-123.96482	46.21204	6	30	70	1	5	0	cards		
A	A1CLATSOP SPIT (LAGOON)	-124.00983	46.24173	7	1	70	1	4	0	cards		
A	A1CLATSOP SPIT (LAGOON)	-124.00983	46.24173	7	2	70	1	4	0	cards		
B	B1PNT ADAMS	-123.96482	46.21204	7	2	70	1	3	0	cards		

A	A1CLATSOP SPIT (LAGOON)		-124.00983	46.24173	7	6	70	1	4	0	cards
B	B1PNT ADAMS		-123.96482	46.21204	7	6	70	1	2	0	cards
A	A1CLATSOP SPIT		-124.00983	46.24173	7	7	70	1	5	0	cards
B	B1PNT ADAMS		-123.96482	46.21204	7	7	70	1	2	0	cards
B	B1LOWER COLUMBIA POINT ADAMS		-123.96482	46.21204	7	8	70	1	4	0	cards
B	B1PNT ADAMS		-123.96482	46.21204	7	9	70	1	6	0	cards
B	B1PNT ADAMS		-123.96482	46.21204	7	10	70	1	10	0	cards
A	A1CLATSOP SPIT		-124.00983	46.24173	7	13	70	1	4	0	cards
B	B1PNT ADAMS		-123.96482	46.21204	7	13	70	1	6	0	cards
B	B1PNT ADAMS		-123.96482	46.21204	7	14	70	1	10	0	cards
C	C1MCGOWAN		-123.89520	46.24229	7	15	70	1	3	0	cards
A	A1CLATSOP SPIT		-124.00983	46.24173	7	16	70	1	7	0	cards
H	H1LOWER END PUGET SOUND		-123.42710	46.19366	7	21	70	1	7	0	cards
J	J4UPPER END PUGET SOUND		-999.00000	-999.00000	7	27	70	1	7	0	cards
H	H1LOWER PUGET ISL ACROSS FROM BRADWOOD		-123.42710	46.19366	7	28	70	1	2	0	cards
I	I3PUGET ISL ACROSS FOM WEST PORT CHNL		-123.36420	46.14923	7	28	70	1	4	2	8
G	G2LOWER WOODY ISL		-123.53468	46.25398	7	29	70	1	5	4	50
G	G2LOWER WOODY ISL		-123.53468	46.25398	7	29	70	1	5	5	50
G	G2WOODY ISL		-123.53468	46.25398	7	30	70	1	1	0	cards
A	A1CLATSOP SPIT LAGOON		-124.00983	46.24173	8	31	70	1	2	0	cards
B	B1BOAT HOUSE HAMMOND MOOR BASIN		-123.96482	46.21204	9	6	70	1	2	0	cards
D	D1E. Dr(?) Tongue POINT.		-123.77808	46.22935	3	31	71	2	1	0	cards
D	D1OFF TONGUE PNT NE		-123.77808	46.22935	3	31	71	2	1	0	cards

E	E4MARITIME BASIN	-123.73388	46.26765	3	31	71	2	3	2	1	352	cards
D	D1WEST OF TONGUE PNT COST GRD STA	-123.77808	46.22935	4	1	71	2	1		0		cards
E	E4MARITIME BASIN SO&EAST EDGE	-123.73388	46.26765	4	1	71	2	5	2	1	381	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	2	71	2	6	4	1	433	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	5	71	2	8	1	1	230	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	5	71	2	8	5	1	295	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	5	71	2	8	1	1	296	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	5	71	2	8	5	1	300	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	5	71	2	8	1	1	306	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	5	71	2	8	5	1	306	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	5	71	2	8	5	1	313	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	5	71	2	8	3	1	337	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	5	71	2	8	5	1	371	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	6	71	2	5	1	1	312	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	6	71	2	5	1	1	328	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	6	71	2	5	1	1	470	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	7	71	2	4	1	1	318	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	7	71	2	4	1	1	322	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	7	71	2	4	1	1	337	cards
E	E4MARITIME BASIN	-123.73388	46.26765	4	7	71	2	4	2	1	350	cards
C	C1PNT ELLICE	-123.89520	46.24229	4	12	71	2	1		0		cards
D	D1OFF COAST GUARD BASE AND TONGUE PNT	-123.77808	46.22935	4	13	71	2	2		0		cards
D	D1TONGUE PNT PEIR SO END	-123.77808	46.22935	4	13	71	2	1		0		cards

E	E4NE CORNER MARITIME BASIN	-123.73388	46.26765	4	13	71	2	1	1	1	319	cards
E	E4N SIDE MARITIME BASIN	-123.73388	46.26765	4	16	71	2	1	1	1	190	cards
E	E4N SIDE MARITIME BASIN	-123.73388	46.26765	4	16	71	2	1	1	1	297	cards
E	E4N SIDE MARITIME BASIN	-123.73388	46.26765	4	16	71	2	1	1	1	301	cards
E	E4N SIDE MARITIME BASIN	-123.73388	46.26765	4	16	71	2	1	1	1	343	cards
E	E4N SIDE MARITIME BASIN	-123.73388	46.26765	4	16	71	2	1	1	1	356	cards
E	E4N SIDE MARITIME BASIN	-123.73388	46.26765	4	16	71	2	1	1	1	410	cards
D	D1TONGUE PNT	-123.77808	46.22935	4	19	71	2	2	2	1	342	cards
D	D1TONGUE PNT	-123.77808	46.22935	4	19	71	2	2	2	1	343	cards
D	D1TONGUE PNT	-123.77808	46.22935	4	20	71	2	2	0		cards	
D	D1SHIP CHANL SIDE TONGUE PNT	-123.77808	46.22935	4	21	71	2	4	3	1	316	cards
D	D1SHIP CHANL SIDE TONGUE PNT	-123.77808	46.22935	4	21	71	2	4	3	1	324	cards
D	D1SHIP CHANL SIDE TONGUE PNT	-123.77808	46.22935	4	21	71	2	4	1	1	339	cards
G	G2UPPER WOODY ISL CHANL	-123.53468	46.25398	4	22	71	2	4	0		cards	
C	C1WASH.SIDE OF COLUMBIA ABOVE AND BELOW ASTORIA BRDG.	-123.89520	46.24229	4	26	71	2	4	4	1	253	cards
C	C1WASH.SIDE OF COLUMBIA ABOVE AND BELOW ASTORIA BRDG.	-123.89520	46.24229	4	26	71	2	4	3	1	270	cards
C	C1WASH.SIDE OF COLUMBIA ABOVE AND BELOW ASTORIA BRDG.	-123.89520	46.24229	4	26	71	2	4	1	1	313	cards
D	D3WASH. SHORE OFF GRAYS PNT	-123.76390	46.27225	4	26	71	2	1	1	1	278	cards
-999	-999INSIDE BAR MIDDLE OF RV & OF COAST GUARD STA	-999.00000	-999.00000	4	27	71	2	2	0		cards	
-999	-999OFF OF MOUTH OF SKIPANON RV	-999.00000	-999.00000	4	27	71	2	1	0		cards	
-999	-999WASH.SIDE TO BAR THEN BACK TO OR SIDE	-999.00000	-999.00000	4	27	71	2	2	2	1	182	cards
-999	-999WASH.SIDE TO BAR THEN BACK TO OREGON SIDE	-999.00000	-999.00000	4	27	71	2	2	2	1	225	cards
D	D1Tongue Pnt area	-123.77808	46.22935	4	29	71	2	7	7	1	186	cards

D	D1Tongue Pnt area		-123.77808	46.22935	4	29	71	2	7	3	1	292	cards
D	D1Tongue Pnt area		-123.77808	46.22935	4	29	71	2	7	3	1	302	cards
D	D1Tongue Pnt area		-123.77808	46.22935	4	29	71	2	7	4	1	324	cards
D	D1Tongue Pnt area		-123.77808	46.22935	4	29	71	2	7	3	1	331	cards
D	D1Tongue Pnt area		-123.77808	46.22935	4	29	71	2	7	7	1	348	cards
D	D1Tongue Pnt area		-123.77808	46.22935	4	29	71	2	7	6	1	364	cards
D	D1Tongue Pnt area		-123.77808	46.22935	4	29	71	2	7	6	1	372	cards
C	C1WASH SIDE WEST OF ASTRIA BRDG		-123.89520	46.24229	4	30	71	2	4	3	1	139	cards
C	C1WASH SIDE WEST OF ASTRIA BRDG		-123.89520	46.24229	4	30	71	2	4	4	1	339	cards
C	C1WASH SIDE WEST OF ASTRIA BRDG		-123.89520	46.24229	4	30	71	2	4	3	1	342	cards
G	G2WOODY ISL CHANL UPPER END		-123.53468	46.25398	5	3	71	2	4	1	1	169	cards
G	G2WOODY ISL CHANL UPPER END		-123.53468	46.25398	5	3	71	2	4	1	1	241	cards
G	G2WOODY ISL CHANL UPPER END		-123.53468	46.25398	5	3	71	2	4	1	1	340	cards
G	G2WOODY ISL CHANL UPPER END		-123.53468	46.25398	5	3	71	2	4	1	1	345	cards
G	G2UPPER WOODY ISL CHANL		-123.53468	46.25398	5	4	71	2	4	4	1	192	cards
G	G2UPPER WOODY ISL CHANL		-123.53468	46.25398	5	4	71	2	4	4	1	224	cards
G	G2UPPER WOODY ISL CHANL		-123.53468	46.25398	5	4	71	2	4	2	1	333	cards
G	G2UPPER WOODY ISL CHANL		-123.53468	46.25398	5	4	71	2	4	3	1	335	cards
G	G2UPPER WOODY ISL CHANL		-123.53468	46.25398	5	4	71	2	4	3	1	343	cards
G	G2UPPER WOODY ISL CHANL		-123.53468	46.25398	5	4	71	2	4	3	1	346	cards
G	G2UPPER WOODY ISL CHANL		-123.53468	46.25398	5	4	71	2	4	3	1	371	cards
G	G2UPPER WOODY ISL CHANL		-123.53468	46.25398	5	4	71	2	4	1	1	419	cards
-999	-999WASHINGTON		-999.00000	-999.00000	5	10	71	2	5	2	1	406	cards

C	C1ASTORIA MEGLER BRDG -AREA	-123.89520	46.24229	5	11	71	2	7	1,2,4,6	5	cards
C	C1MEGLAR	-123.89520	46.24229	5	12	71	2	5	1,2,4	1	298 cards
C	C1MEGLAR	-123.89520	46.24229	5	12	71	2	5	1,2,4	1	110 binder
C	C1MEGLAR	-123.89520	46.24229	5	12	71	2	5	1,2,4	1	110 binder
C	C1MEGLAR	-123.89520	46.24229	5	12	71	2	5	1,2,4	1	190 binder
C	C1MEGLAR	-123.89520	46.24229	5	12	71	2	5	1,2,4	1	215 binder
C	C1MEGLAR	-123.89520	46.24229	5	12	71	2	5	1,2,4	1	220 binder
C	C1MEGLAR	-123.89520	46.24229	5	12	71	2	5	1,2,4	1	235 binder
C	C1MEGLAR	-123.89520	46.24229	5	12	71	2	5	1,2,4	1	250 binder
C	C1MEGLAR	-123.89520	46.24229	5	12	71	2	5	1,2,4	1	255 binder
-999	-999BELOW ASTORIA BRDG	-999.00000	-999.00000	5	13	71	2	9	1,2,3	9	318 cards
B	B1HAMMOND	-123.96482	46.21204	5	14	71	2	7	2,3,4,5,6,7	1	230 cards
B	B1HAMMOND	-123.96482	46.21204	5	14	71	2	7	2,3,4,5,6,7	1	267 cards
B	B1HAMMOND	-123.96482	46.21204	5	14	71	2	7	2,3,4,5,6,7	1	310 cards
B	B1HAMMOND	-123.96482	46.21204	5	14	71	2	7	2,3,4,5,6,7	1	395 cards
B	B1HAMMOND	-123.96482	46.21204	5	14	71	2	7	2,3,4,5,6,7	1	180 binder
B	B1HAMMOND	-123.96482	46.21204	5	14	71	2	7	2,3,4,5,6,7	1	190 binder
B	B1HAMMOND	-123.96482	46.21204	5	14	71	2	7	2,3,4,5,6,7	1	200 binder
B	B1HAMMOND	-123.96482	46.21204	5	14	71	2	7	2,3,4,5,6,7	1	200 binder
C	C1WASH MEGLER BRDG	-123.89520	46.24229	5	25	71	2	8	1, 2, 3, 6,7, 8	1	110 binder
C	C1WASH MEGLER BRDG	-123.89520	46.24229	5	25	71	2	8		1	145 binder
C	C1WASH MEGLER BRDG	-123.89520	46.24229	5	25	71	2	8		1	155 binder
C	C1WASH MEGLER BRDG	-123.89520	46.24229	5	25	71	2	8		1	185 binder

C	C1WASH MEGLER BRDG		-123.89520	46.24229	5	25	71	2	8	1	190	binder	
C	C1WASH MEGLER BRDG		-123.89520	46.24229	5	25	71	2	8	1	190	binder	
C	C1WASH MEGLER BRDG		-123.89520	46.24229	5	25	71	2	8	1	195	binder	
C	C1WASH MEGLER BRDG		-123.89520	46.24229	5	25	71	2	8	1	200	binder	
C	C1WASH MEGLER BRDG		-123.89520	46.24229	5	25	71	2	8	1	210	binder	
C	C1WASH MEGLER BRDG		-123.89520	46.24229	5	25	71	2	8	1	215	binder	
C	C1WASH MEGLER BRDG		-123.89520	46.24229	5	25	71	2	8	1	235	binder	
C	C1WASH MEGLER BRDG		-123.89520	46.24229	5	25	71	2	8	1	240	binder	
C	C1WASH MEGLER BRDG		-123.89520	46.24229	5	25	71	2	8	1	250	binder	
B	B1HAMMOND		-123.96482	46.21204	5	26	71	2	6	0		cards	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1,3,4,5,6,7	1	185	binder
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	185	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	190	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	195	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	195	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	200	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	205	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	210	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	210	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	215	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	215	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	225	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	230	binder	

B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	240	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	250	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	260	binder	
B	B1HAMMOND		-123.96482	46.21204	5	27	71	2	7	1	260	binder	
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	155	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	170	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	185	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	195	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	200	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	200	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	210	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	210	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	215	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	215	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	215	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	220	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	220	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	225	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	240	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	240	binder
B	B1HAMMOND		-123.96482	46.21204	5	28	71	2	7	3,4,5,6	1	250	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	3	71	2	7	5	1	180	binder

C	C1MCGOWAN BEACH		-123.89520	46.24229	6	3	71	2	7	5	1	255	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	3	71	2	7	5	1	275	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	4	71	2	7	4,5,6	1	170	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	4	71	2	7	4,5,6	1	175	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	4	71	2	7	4,5,6	1	185	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	4	71	2	7	4,5,6	1	200	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	4	71	2	7	4,5,6	1	225	binder
B	B1HAMMOND		-123.96482	46.21204	6	7	71	2	7	3,4,5,7	1	165	binder
B	B1HAMMOND		-123.96482	46.21204	6	7	71	2	7	3,4,5,7	1	170	binder
B	B1HAMMOND		-123.96482	46.21204	6	7	71	2	7	3,4,5,7	1	210	binder
B	B1HAMMOND		-123.96482	46.21204	6	7	71	2	7	3,4,5,7	1	215	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	8	71	2	7	1,2,4,6	1	155	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	8	71	2	7	1,2,4,6	1	160	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	8	71	2	7	1,2,4,6	1	160	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	8	71	2	7	1,2,4,6	1	165	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	8	71	2	7	1,2,4,6	1	165	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	8	71	2	7	1,2,4,6	1	195	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	8	71	2	7	1,2,4,6	1	205	binder
C	C1PNT ELLICE		-123.89520	46.24229	6	8	71	2	7	1,2,4,6	1	340	binder
-999	-999WASH SIDE		-999.00000	-999.00000	6	9	71	2	8	1,3,5,6,8	6		cards
-999	-999WASH SIDE		-999.00000	-999.00000	6	9	71	2	8	1	1	431	cards
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	10	71	2	7	3	1	170	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	10	71	2	7	3	1	195	binder

C	C1MCGOWAN BEACH		-123.89520	46.24229	6	11	71	2	7	2,3,4,7	1	155	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	11	71	2	7	2,3,4,7	1	170	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	11	71	2	7	2,3,4,7	1	175	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	11	71	2	7	2,3,4,7	1	180	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	11	71	2	7	2,3,4,7	1	180	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	11	71	2	7	2,3,4,7	1	210	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	14	71	2	7	1,2,6,7	1	150	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	14	71	2	7	1,2,6,7	1	150	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	14	71	2	7	1,2,6,7	1	180	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	14	71	2	7	1,2,6,7	1	185	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	15	71	2	7	1,5	3	185	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	16	71	2	8	3,4,7,8	1	150	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	16	71	2	8	3,4,7,8	1	155	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	16	71	2	8	3,4,7,8	1	160	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	16	71	2	8	3,4,7,8	1	165	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	16	71	2	8	3,4,7,8	1	170	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	16	71	2	8	3,4,7,8	1	175	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	17	71	2	6	5,6	1	165	binder
C	C1MCGOWAN BEACH		-123.89520	46.24229	6	17	71	2	6	5,6	1	180	binder
C	C1MCGOWAN		-123.89520	46.24229	6	18	71	2	7	1	1		cards
A	A1Clatsop spit		-124.00983	46.24173	4	6	78	1	-999			-999	unspec
A	A2Sand Isle		-124.00524	46.26876	4	7	78	1	-999			-999	unspec

A	A1Clatsop spit		-124.00983	46.24173	4	10	78	1	7	0	cards
A	A2Sand Isle		-124.00524	46.26876	4	11	78	1	6	0	cards
A	A2Sand Isle		-124.00524	46.26876	4	14	78	1	9	0	cards
A	A1Clatsop spit		-124.00983	46.24173	4	17	78	1	9	0	cards
A	A2Sand Isle		-124.00524	46.26876	4	18	78	1	-999	-999	unspec
A	A1Clatsop spit		-124.00983	46.24173	4	19	78	1	-999	-999	unspec
A	A2Sand Isle		-124.00524	46.26876	4	25	78	1	8	0	cards
A	A1Clatsop spit		-124.00983	46.24173	4	27	78	1	9	0	cards
A	A2Sand Isle		-124.00524	46.26876	5	2	78	1	9	0	cards
A	A1Clatsop spit		-124.00983	46.24173	5	4	78	1	9	7	1
A	A1Clatsop spit		-124.00983	46.24173	5	4	78	1	9	6	2
A	A1Clatsop spit		-124.00983	46.24173	5	9	78	1	9	0	cards
A	A2Sand Isle		-124.00524	46.26876	5	11	78	1	9	0	cards
A	A1Clatsop spit		-124.00983	46.24173	5	18	78	1	7	1	1
A	A1Clatsop spit		-124.00983	46.24173	5	18	78	1	7	2	2
A	A1Clatsop spit		-124.00983	46.24173	5	18	78	1	7	4	3
A	A1Clatsop spit		-124.00983	46.24173	5	24	78	1	9	6	2
A	A2Sand Isle		-124.00524	46.26876	5	24	78	1	-999	-999	unspec
A	A2Sand Isle		-124.00524	46.26876	5	30	78	1	9	0	cards
A	A1Clatsop spit		-124.00983	46.24173	6	6	78	1	9	0	cards
A	A2Sand Isle		-124.00524	46.26876	6	9	78	1	9	0	cards
A	A1Clatsop spit		-124.00983	46.24173	6	13	78	1	9	0	cards
A	A2Sand Isle		-124.00524	46.26876	6	15	78	1	9	3	2

A	A2Sand Isle		-124.00524	46.26876	6	27	78	1	9	0	cards
A	A1Clatsop spit		-124.00983	46.24173	6	29	78	1	9	0	cards
A	A2Sand Isle		-124.00524	46.26876	7	10	78	1	-999	-999	unspec
A	A1Clatsop spit		-124.00983	46.24173	7	13	78	1	9	0	cards
A	A2Sand Isle		-124.00524	46.26876	7	19	78	1	-999	-999	unspec
A	A1Clatsop spit		-124.00983	46.24173	7	31	78	1	-999	-999	unspec
A	A1Clatsop spit		-124.00983	46.24173	9	6	78	1	7	0	cards
C	C1Astoria Meglar Bridge		-123.89520	46.24229	4	4	78	2	-999	-999	unspec
C	C1Astoria Meglar Bridge		-123.89520	46.24229	4	20	78	2	6	0	cards
C	C1Astoria Meglar Bridge		-123.89520	46.24229	4	21	78	2	5	0	cards
C	C1Astoria Meglar Bridge		-123.89520	46.24229	4	24	78	2	4	0	cards
C	C1Astoria Bridge		-123.89520	46.24229	4	26	78	2	4	0	cards
C	C1Astoria Bridge		-123.89520	46.24229	4	28	78	2	6	4	1
C	C1Astoria Bridge		-123.89520	46.24229	5	1	78	2	6	1	1
C	C1Astoria Bridge		-123.89520	46.24229	5	3	78	2	5	1	1
C	C1Astoria Bridge		-123.89520	46.24229	5	5	78	2	4	0	cards
C	C1Astoria Bridge		-123.89520	46.24229	5	8	78	2	4	0	cards
C	C1Astoria Bridge		-123.89520	46.24229	5	10	78	2	4	0	cards
C	C1Astoria Bridge		-123.89520	46.24229	5	12	78	2	5	0	cards
C	C1Astoria Bridge		-123.89520	46.24229	5	15	78	2	2	0	cards
C	C1Astoria Bridge		-123.89520	46.24229	5	16	78	2	5	0	cards
C	C1Astoria Bridge		-123.89520	46.24229	5	17	78	2	5	2	1
C	C1Astoria Bridge		-123.89520	46.24229	5	17	78	2	5	1	3

C	C1Astoria Bridge		-123.89520	46.24229	5	19	78	2	5	1	1	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	5	19	78	2	5	2	1	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	5	22	78	2	3	3	2	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	5	22	78	2	3	2	3	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	5	23	78	2	4	4	2	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	5	23	78	2	4	3	3	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	5	23	78	2	4	2	4	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	5	25	78	2	4	0		cards	
C	C1Astoria Bridge		-123.89520	46.24229	5	26	78	2	4	0		cards	
C	C1Astoria Meglar Bridge		-123.89520	46.24229	6	1	78	2	4	1	2	unspec	
C	C1Astoria Meglar Bridge		-123.89520	46.24229	6	2	78	2	4	1	1	unspec	
C	C1Astoria Meglar Bridge		-123.89520	46.24229	6	2	78	2	4	3	1	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	6	5	78	2	4	1	1	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	6	5	78	2	4	2	2	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	6	7	78	2	4	2	1	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	6	8	78	2	3	0		cards	
C	C1Astoria Bridge		-123.89520	46.24229	6	12	78	2	5	2	1	345	cards
C	C1Astoria Bridge		-123.89520	46.24229	6	14	78	2	5	5	1	190	cards
C	C1Astoria Bridge		-123.89520	46.24229	6	16	78	2	5	4	2	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	6	17	78	2	5	5	1	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	6	17	78	2	5	4	2	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	6	21	78	2	5	0		cards	
C	C1Astoria Bridge		-123.89520	46.24229	6	22	78	2	5	0		cards	

C	C1Astoria Bridge		-123.89520	46.24229	6	24	78	2	5	0	cards		
C	C1Astoria Bridge		-123.89520	46.24229	6	27	78	2	5	0	cards		
C	C1Astoria Bridge		-123.89520	46.24229	6	30	78	2	3	0	cards		
C	C1Astoria Bridge		-123.89520	46.24229	7	3	78	2	1	0	cards		
C	C1Astoria Bridge		-123.89520	46.24229	7	5	78	2	5	0	cards		
C	C1Astoria Bridge		-123.89520	46.24229	7	7	78	2	3	0	cards		
C	C1Astoria Bridge		-123.89520	46.24229	7	21	78	2	5	0	cards		
C	C1Astoria Bridge		-123.89520	46.24229	7	24	78	2	5	0	cards		
C	C1Astoria Bridge		-123.89520	46.24229	7	26	78	2	5	0	cards		
F	F4Pillar Rock & Vicinity		-123.61083	46.25219	7	28	78	2	3	0	cards		
C	C1Astoria Bridge		-123.89520	46.24229	8	1	78	2	5	2	1	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	8	1	78	2	5	3	2	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	8	1	78	2	5	1	6	unspec	
C	C1Astoria Bridge		-123.89520	46.24229	8	7	78	2	5	3	1	280	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	7	78	2	5	3	1	300	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	7	78	2	5	4	1	305	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	7	78	2	5	5	1	310	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	7	78	2	5	4	1	330	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	23	78	2	3	0	cards		
C	C1Astoria Bridge		-123.89520	46.24229	8	31	78	2	5	2	1	255	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	31	78	2	5	2	1	300	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	31	78	2	5	1	1	330	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	31	78	2	5	1	1	335	cards

C	C1Astoria Bridge		-123.89520	46.24229	9	7	78	2	6	1	1	295	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	7	78	2	6	2	1	300	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	7	78	2	6	3	1	300	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	7	78	2	6	1	1	310	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	7	78	2	6	3	1	310	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	7	78	2	6	2	1	320	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	7	78	2	6	2	1	325	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	7	78	2	6	4	1	360	cards
C	C4Youngs Bay N entrance		-123.86854	46.18872	9	8	78	2	3		0		cards
C	C1Astoria Bridge		-123.89520	46.24229	9	11	78	2	-999		-999		unspec
C	C1Astoria Bridge		-123.89520	46.24229	9	15	78	2	4		0		cards
C	C1Astoria Bridge		-123.89520	46.24229	9	20	78	2	-999		-999		unspec
C	C1Astoria Bridge		-123.89520	46.24229	9	29	78	2	4		0		cards
C	C1Astoria Bridge		-123.89520	46.24229	10	2	78	2	-999		-999		unspec
C	C1Astoria Bridge		-123.89520	46.24229	10	18	78	2	-999		-999		unspec
C	C3Tansy Pt.		-123.92314	46.19246	5	30	79	2	1		0		cards
C	C4Young's Bay		-123.86854	46.18872	5	30	79	2	5		0		cards
C	C3Tansy Pt.		-123.92314	46.19246	5	31	79	2	1		0		cards
C	C1Bridge Purse		-123.89520	46.24229	6	4	79	2	4		0		cards
C	C1Bridge Purse		-123.89520	46.24229	6	7	79	2	3	2	1	365	cards
C	C1Bridge Purse		-123.89520	46.24229	6	11	79	2	3	1	1	-999	cards
C	C1Bridge Purse		-123.89520	46.24229	6	11	79	2	3	3	1	-999	cards
C	C1Bridge Purse		-123.89520	46.24229	6	14	79	2	3		0		cards

C	C1Bridge Purse	-123.89520	46.24229	6	15	79	2	3	0		cards
C	C1Bridge Purse	-123.89520	46.24229	6	18	79	2	3	0		cards
C	C1Bridge Purse	-123.89520	46.24229	6	22	79	2	3	3	1	420
C	C1Bridge Purse	-123.89520	46.24229	6	25	79	2	4	0		cards
C	C1Astoria Bridge	-123.89520	46.24229	7	2	79	2	4	0		cards
C	C1Astoria Bridge	-123.89520	46.24229	7	4	79	2	4	0		cards
C	C1Astoria Bridge	-123.89520	46.24229	7	11	79	2	4	4	2	375
C	C1Astoria Bridge	-123.89520	46.24229	7	13	79	2	4	2	1	290
C	C1Astoria Bridge	-123.89520	46.24229	7	13	79	2	4	4	1	350
C	C1Astoria Bridge	-123.89520	46.24229	7	13	79	2	4	1	3	280
C	C1Astoria Bridge	-123.89520	46.24229	7	17	79	2	4	2	2	-999
C	C1Astoria Bridge	-123.89520	46.24229	7	17	79	2	4	3	3	-999
C	C1Astoria Bridge	-123.89520	46.24229	7	18	79	2	3	3	3	-999
C	C1Astoria Bridge	-123.89520	46.24229	7	18	79	2	3	2	4	-999
C	C1Astoria Bridge	-123.89520	46.24229	7	19	79	2	4	2	1	-999
C	C1Astoria Bridge	-123.89520	46.24229	7	19	79	2	4	3	1	-999
C	C1Astoria Bridge	-123.89520	46.24229	7	19	79	2	4	1	2	-999
C	C1Astoria Bridge	-123.89520	46.24229	7	19	79	2	4	4	2	-999
C	C1Astoria Bridge	-123.89520	46.24229	7	20	79	2	4	4	1	-999
C	C1Astoria Bridge	-123.89520	46.24229	7	20	79	2	4	3	4	-999
C	C1Astoria Bridge	-123.89520	46.24229	7	20	79	2	4	2	7	-999
C	C1Astoria Bridge	-123.89520	46.24229	7	20	79	2	4	1	24	-999

C	C1Astoria Bridge		-123.89520	46.24229	7	31	79	2	4	4	11	340	cards
C	C1Astoria Bridge		-123.89520	46.24229	7	31	79	2	4	3	13	320	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	3	79	2	4		0		cards
D	D1Tongue Pt.		-123.77808	46.22935	8	6	79	2	3		0		cards
C	C1Astoria Bridge		-123.89520	46.24229	8	7	79	2	4	3	6	-999	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	7	79	2	4	4	6	-999	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	7	79	2	4	2	9	435	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	2	1	255	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	1	1	270	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	1	1	270	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	2	1	280	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	3	1	285	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	2	1	295	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	2	1	305	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	2	1	305	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	2	1	310	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	3	1	310	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	2	1	315	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	4	1	360	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	2	1	390	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	8	79	2	4	2	1	405	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	13	79	2	4		0		cards
C	C1Astoria Bridge		-123.89520	46.24229	8	14	79	2	2		0		cards

C	C1Bridge Purse		-123.89520	46.24229	8	20	79	2	5	2	1	270	cards
C	C1Bridge Purse		-123.89520	46.24229	8	20	79	2	5	2	1	305	cards
C	C1Bridge Purse		-123.89520	46.24229	8	20	79	2	5	1	1	275	cards
C	C1Bridge Purse		-123.89520	46.24229	8	20	79	2	5	1	1	285	cards
C	C1Bridge Purse		-123.89520	46.24229	8	20	79	2	5	1	1	295	cards
C	C1Bridge Purse		-123.89520	46.24229	8	20	79	2	5	1	1	300	cards
C	C1Bridge Purse		-123.89520	46.24229	8	20	79	2	5	1	1	305	cards
C	C1Bridge Purse		-123.89520	46.24229	8	20	79	2	5	1	1	315	cards
C	C1Bridge Purse		-123.89520	46.24229	8	20	79	2	5	1	1	355	cards
C	C1Bridge Purse		-123.89520	46.24229	8	20	79	2	5	1	1	360	cards
D	D1Tongue Pt.		-123.77808	46.22935	8	22	79	2	4	1	1	-999	cards
D	D1Tongue Pt.		-123.77808	46.22935	8	22	79	2	4	3	4	-999	cards
D	D1Tongue Pt.		-123.77808	46.22935	8	22	79	2	4	4	4		cards
D	D1Tongue Pt.		-123.77808	46.22935	8	22	79	2	4	2	6	-999	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	260	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	270	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	295	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	295	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	310	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	315	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	325	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	330	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	345	cards

C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	345	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	355	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	360	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	375	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	380	cards
C	C1Bridge Purse		-123.89520	46.24229	8	24	79	2	-999	?	1	390	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	275	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	3	1	285	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	285	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	290	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	3	1	300	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	3	1	300	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	305	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	3	1	310	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	3	1	310	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	310	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	315	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	3	1	335	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	335	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	3	1	340	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	345	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	350	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	360	cards

C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	360	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	3	1	370	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	370	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	375	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	3	1	380	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	3	1	385	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	3	1	395	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	27	79	2	4	4	1	395	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	29	79	2	4	2	1	335	cards
C	C1Astoria Bridge		-123.89520	46.24229	8	31	79	2	5	4	1	375	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	5	79	2	4	2	1	300	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	5	79	2	4	1	1	305	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	5	79	2	4	2	1	315	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	5	79	2	4	2	1	330	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	5	79	2	4	2	1	335	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	5	79	2	4	2	1	340	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	5	79	2	4	3	1	-999	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	5	79	2	4	3	1	-999	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	5	79	2	4	3	1	-999	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	6	79	2	6	1	1	275	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	6	79	2	6	1	1	285	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	6	79	2	6	1	1	290	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	6	79	2	6	1	1	300	cards

C	C1Astoria Bridge		-123.89520	46.24229	9	6	79	2	6	3	6	-999	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	6	79	2	6	2	7	-999	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	6	79	2	6	4	7	-999	cards
-999	-999Upriver		-999.00000	-999.00000	9	10	79	2	4		0		cards
C	C1Astoria Bridge		-123.89520	46.24229	9	11	79	2	5	5	1	275	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	11	79	2	5	4	1	340	cards
C	C1Astoria Bridge		-123.89520	46.24229	9	13	79	2	5		0		cards
C	C1Astoria Bridge		-123.89520	46.24229	9	14	79	2	6		0		cards
C	C1Astoria Bridge		-123.89520	46.24229	9	17	79	2	5		0		cards
C	C1Astoria Bridge		-123.89520	46.24229	9	19	79	2	6		0		cards
C	C1Astoria Bridge		-123.89520	46.24229	7	2	80	2	2	2	1	365	cards
C	C1Astoria Bridge		-123.89520	46.24229	7	6	80	2	2	2	1	280	cards
C	C1Astoria Bridge		-123.89520	46.24229	7	9	80	2	5		0		cards
C	C1Astoria Bridge		-123.89520	46.24229	7	10	80	2	4		0		cards
C	C1Astoria Bridge		-123.89520	46.24229	7	11	80	2	5	2	1	-999	cards
C	C1Astoria Bridge		-123.89520	46.24229	7	14	80	2	4	1	1	365	cards
C	C1Astoria Bridge		-123.89520	46.24229	7	15	80	2	4	1	1	420	cards
C	C1Astoria Bridge		-123.89520	46.24229	7	15	80	2	4	2	1	380	cards
C	C1Astoria Bridge		-123.89520	46.24229	7	15	80	2	4	2	1	235	cards
C	C1Astoria Bridge		-123.89520	46.24229	7	15	80	2	4	3	1	400	cards
C	C1Astoria Bridge		-123.89520	46.24229	7	16	80	2	4	2	1	410	cards
C	C1Astoria Bridge		-123.89520	46.24229	7	16	80	2	4	4	2	-999	cards
C	C1Astoria Bridge		-123.89520	46.24229	7	17	80	2	5	2	1	350	cards

C	C1Astoria Bridge	-123.89520	46.24229	7	17	80	2	5	2	1	385	cards
C	C1Astoria Bridge	-123.89520	46.24229	7	17	80	2	5	2	1	370	cards
C	C1Astoria Bridge	-123.89520	46.24229	7	17	80	2	5	5	1	276	cards
C	C1Astoria Bridge	-123.89520	46.24229	7	18	80	2	4	1	1	259	cards
C	C1Astoria Bridge	-123.89520	46.24229	7	18	80	2	4	2	1	435	cards