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OCEAN SALMON MANAGEMENT STREAM INVENTORY PROJECT

The Ocean Salmon Management Stream Inventory Project is the branch of the Oregon Department of Fish and Wildlife with the primary task of monitoring the status of naturally produced coastal salmon stocks. Stock status is monitored through spawning fish surveys conducted throughout coastal watersheds. Spawning fish surveys are conducted in conjunction with coastal district biologists located in seven different fish management districts. Data generated by the Ocean Salmon Management Stream Inventory Project is used by ocean and freshwater fishery managers in the Department and other agencies in the management of Oregon's salmon resource.

Project Objectives

Three species of salmon are monitored through spawning surveys. Primary objectives of this monitoring for each of these species are as follows:

Coho Salmon

- 1. Estimate population size of Oregon Coastal Natural coho spawners.
- 2. Formulation of OPI ocean fishery regulations.
- 3. Historical trends in spawning escapement.
- 4. Evaluation of straying by hatchery fish.
- 5. Evaluation of enhancement projects and stream habitat restoration planning.
- 6. Evaluation of compliance with the ODFW Wild Fish Policy.
- 7. Monitoring Threatened and Endangered (T & E) stocks.

Chinook Salmon

- 1. Escapement indicator stock for Pacific Salmon (U.S.-Canada) Treaty monitoring.
- 2. Formulation of ocean fishery regulation-south coast stocks.
- 3. Historical trends in spawning escapement.
- 4. Life history analysis.
- 5. Evaluation of enhancement projects and stream habitat restoration planning.
- 6. Evaluation of compliance with the ODFW Wild Fish Policy.

Chum Salmon

- 1. Historical trends in spawning escapement-Tillamook District only.
- 2. Evaluation of compliance with the ODFW Wild Fish Policy.
- 3. Monitoring T & E stocks.



Map of the Oregon coast showing major river basins and locations of fishery management districts where spawning surveys are conducted.

COASTAL SALMON SPAWNING SURVEY INFORMATION FLOW



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SALMON SPAWNING SURVEYOR ID LIST

DISTRICT	ID NUMBER	SURVEYOR
NORTH COAST	10 11 12 13 14 15 16 19	Walt Weber Joe Sheahan Chris Vandenberg Matt Hunter Shaun Green Matt Rowe Kelli Grover Private Industry Surveyors
TILLAMOOK	04 20 21 22 23 24 25 26 28	Howard Crombie Rick Klumph Keith Braun Mark McCollister Tom Neil Julie Scheurer Steve Mallas Steve Mrazik Salmonid Habitat Research Crew
CORVALLIS	06 07 08 09	Brian Cannon Scott Titzler Sam Moyer Rod Thompson
LINCOLN	30 31 32 33 34 37 39	Bob Buckman Randy Reeve John Spangler Stacey Shapleigh Darren Craig Tony Stein Private Industry Surveyor
SIUSLAW	40 41 42 43 48	Will Biedler George Westfall Shawn Rapp John Meriwether Volunteer Surveyors

SALMON SPAWNING SURVEYOR ID LIST (continued)

DISTRICT	ID NUMBER	SURVEYOR
UMPQUA	50	Dave Loomis
	51	Dave Liscia
	52	Steve Sjogren
	53	Lynn Quellette
	54	Jason Clevenger
	55	Jason Shappart
	56	Steve Starchvich
	58	All Volunteer Surveyors
COOS/COQUILLE	05	Brian Riggers
	60	Paul Reimers
	61	Reese Bender
	62	Dave Plawman
	63	Richard Wiggins
	64	Kris Tempel
	65	Andrew Jensen
	66	Lisa Sommerfield
	67	Jim Muck
	68	Randy Smith
	69	Private Industry Surveyors
SOUTH COAST	70	Russ Stauff
	71	Todd Confer / Robert Bradley
-	72	Broodstock Crew
	73	Gary Susac
	74	Holly Witt
	75	Jason Mowdy
	76	Chetco Crew
	77	All Volunteers
BLM .	80	All Surveyors
UPPER ROGUE	03	Todd Kemp
	81	April Van Datta
	82	Peggy Savage
	83	Scott Cotter
	84	Kyle Young
	85	David Slama
FOREST SERVICE	87	Forest Service Employees
COLUMBIA RIVER	88	All CRM Personnel
SALMON RIVER	90	All Surveyors

SUPPLY LIST FOR SPAWNING FISH SURVEYORS

Forms:

- 1. 1996 Salmon Spawning Survey Form.
- 2. Spawning Survey Location Description Form.
- 3. Fin mark Recovery Form with Snout ID Tabs.
- 4. Coho Salmon Spawning Survey Evaluation Form.

Equipment:

- 1. Chest waders, with belt (recommended with felt soles or corkers).
- 2. Polarized sunglasses.
- 3. Raincoat.
- 4. Hat
- 5. Orange field vest.
- 6. Pencils.
- 7. Spawning Fish Survey Field Notebook.
- 8. Measuring tape (in millimeters).
- 9. Forceps for scale collection.
- 10. Scale envelopes.
- 11. Knife with sheath.
- 12. Snout / Finmark I. D. Labels
- 13. Snout bags.
- 14. Hand-held tally counter.
- 15. Wading staff with gaff (optional).
- 16. Signs for marking boundaries of surveys.
- 17. Whistle
- 18. C. B. Radio (as needed)
- 19. Life Jacket (For River Surveys, as needed).

EXAMPLES OF SURVEY DESCRIPTION

ID	SEG	BASIN	SUBBASIN	SURVEY	LOCATION	DESCRIPTION
26243.00	2	NECANICUM RIVER	MAIN STEM	UPPER NECANICUM	T5N R9W 1	SURVEY FROM THE SUNSET HIGHWAY (ROUTE 26) BRIDGE AT THE SADDLE MOUNTAIN PARK ROAD INTERSECTION UPSTREAM 1.5 MILES. END THE SURVEY AT THE BRIDGE ON NORTH MUNCE ROAD, WHICH IS THE FIRST BRIDGE ENCOUNTERED FROM THE STARTING POINT.
25719.00	2	KILCHIS RIVER	MAIN STEM	COAL CREEK	T01S R09W	FROM THE KILCHIS R RD TURN RIGHT ON CURL RD. CONTINUE APPROX. 0.4 MILES TO A FORK IN THE ROAD. TAKE THE RIGHT FORK UP TO A SMALL PRIVATE BRIDGE. SURVEY FROM THE BRIDGE UPSTREAM 0.5 MILE TO THE SMALL TRIBUTARY ON RIGHT (SIGN ON ALDER ON RIGHT).
25046.00	2	YAQUINA RIVER	MAIN STEM AND BAY	UPPER YAQUINA RIVER	T10S R8W	FROM OLD LOGGING BRIDGE SITE 0.8 ROAD MILES ABOVE NASHVILLE UPSTREAM 2 MILES TO 15 FOOT FALLS.
24136.00	2	SIUSLAW RIVER	LAKE CREEK	WEST FK. INDIAN CREEK	T16S R10W	THE SURVEY STARTS AT USFS ROAD 5134 BRIDGE AND EXTENDS 1.0 MILE UPSTREAM TO PYLE CREEK WHICH ENTERS FROM THE RIGHT.
22624.00	2	UMPQUA RIVER	MAIN STEM AND BAY	DEAN CREEK	T22S R11W	FROM HWY 138, TAKE DEAN CR RD 2.8 MILES TO A LOCKED GATE AT A BRIDGE OVER DEAN CR. PARK AND WALK UP THE ROAD 0.2 MILES. ACCESS DEAN CR ACROSS THE CLEARING NEXT TO THE CREEK (SIGN ON WILLOW ON LEFT ACROSS FROM SMALL TRIB ON RIGHT - PART OF AN ABANDONED BUILDING MAY BE VISIBLE ON THE RIGHT). SURVEY FROM HERE UPSTREAM 1.1 MILES (SIGN ON FIR ON RIGHT). EXIT VIA ABANDONED ROAD ON LEFT. RE- MEASURED - 1994.
21755.00	2	COQUILLE RIVER	MIDDLE FORK	ROCK CREEK (LOWER-A)	T30S R11W	START SURVEY AT RED BARN ON BRYANT PLACE AND CONTINUE UPSTREAM 0.5 MILES TO BRIDGE. RETURN BY ROAD.
21542.00	2	SIXES RIVER	MAIN STEM	DRY CREEK(UPPER)	T32S R14W	SURVEY STARTS AT LOG BRIDGE (1.7 MILES ABOVE MOUTH) AND CONTINUES UP STREAM 1.7 MILES TO WHERE CANYON WALLS NARROW AND MAKE FURTHER PASSAGE IMPOSSIBLE. YELLOW METAL RECTANGULAR MARKER ON TREE ON RIGHT BANK MARKS END OF SURVEY.
21542.00	1	SIXES RIVER	MAIN STEM	DRY CREEK(LOWER)	T32S R14W	FROM MOUTH OF DRY CREEK UPSTREAM 1.7 MILES TO LOG BRIDGE CROSSING CREEK (WESTBROOK BRIDGE).
20679.00	1	ROGUE RIVER	APPLEGATE RIVER	SLATE CREEK (APPLEGATE)		SURVEY FROM THE MOUTH OF SLATE CR UPSTREAM 1.0

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EXAMPLES OF SURVEY DESCRIPTION

IÐ	SEG	BASIN	SUBBASIN	SURVEY	LOCATION	DESCRIPTION
25985.00	2	NEHALEM RIVER	MAIN STEM	W HUMBUG CR	T05N R08W	FROM SEASIDE, TAKE HWY 26 EAST TO MILE POINT 15.45 AND TURN LEFT AND DRIVE 50 METERS TO A CAVENHAM GATE (KEY AVAILABLE FROM DB WALT WEBER). FROM THE GATE DRIVE 0.7 MILES AND PULL OVER AT A CEMENT BRIDGE CROSSING WEST HUMBUG CR. ACCESS THE CREEK AND WALK DOWNSTREAM 0.33 MILES TO THE BASE OF A 5 FT BEDROCK WATERFALL (END OF STANDARD SURVEY - SIGN ON ALDER ON LEFT). SURVEY UPSTREAM 0.52 MILES TO A TRIB ON THE LEFT (SIGN ON ALDER ON THE LEFT). EXIT VIA SURVEY.
25688.00	2	WILSON RIVER	NORTH FORK	WILSON R, W FK OF N FK	T01N R07W	FROM TILLAMOOK, TAKE HWY 6 AND GO EAST TO JONES CR CAMPGROUND (MILEPOINT 22.6). TURN LEFT INTO THE CAMPGROUND AND GO STRAIGHT 0.3 MILES TO A JUNCTION. TURN RIGHT TOWARD DIAMOND HILL CAMPGROUND AND GO 1.3 MILES TO A JUNCTION TURN LEFT AND GO 0.3 MILES TO A JUNCTION. TURN RIGHT AND GO 0.4 MILES TO A JUNCTION. TURN RIGHT AND GO 1.0 MILES TO A JUNCTION. TURN LEFT AND GO 1.1 MILES TO A BRIDGE CROSSING THE WF OF THE NF ON THE RIGHT (SIGN ON BRIDGE). SURVEY FROM HERE UPSTREAM 0.94 MILES TO THE CONFLUENCE WITH THE N. FK OF THE W. FK. (SIGN ON ALDER ON LEFT). EXIT VIA ROAD TO THE LEFT.
24764.00	1	ALSEA RIVER	FIVE RIVERS	COUGAR CR	T15S R10W	FROM HWY 34, TURN ON FIVE RIVERS ROAD TO E BUCK CREEK ROAD. TURN RIGHT ON E BUCK CREEK ROAD (STAY RIGHT AFTER BRIDGE) AND GO 0.1 MILES TO FIRST DRIVEWAY ON THE RIGHT (PARK HERE AT BILL WEIDEMANNS HOUSE - 154 E. BUCK CR RD). ACCESS COUGAR CREEK AND WALK DOWN TO THE MOUTH (SIGN ON SMALL TREE ON LEFT AND SIGN ON ALDER ON LEFT NEAR MOUTH). SURVEY UPSTREAM 1.0 MILES (SIGNS ON ALDERS ON BOTH BANKS). EXIT VIA SURVEY TO CULVERT.
24160.20	2	SIUSLAW RIVER	LAKE CREEK	DEADWOOD CR, W FK	T16S R09W	FROM DEADWOOD, DRIVE 4.1 MILES UP DEADWOOD CR RD TO WEST FORK RD ON THE LEFT. TAKE WEST FORK RD 2.3 MILES TO A BRIDGE OVER W FK DEADWOOD WITH ALEXANDER RD JUST PAST THE BRIDGE. TAKE ALEXANDER RD 0.6 MILES TO THE WILLS HOUSE (IT MAY REQUIRE A 4 WHEEL DRIVE TO GO BEYOND THE WILLS HOUSE). CONTINUE UP THE ROAD 0.2 MILES TO A TURNOFF ON THE RIGHT DOWN TO A BRIGE OVER THE W FK (SIGN ON AN ALDER ON THE LEFT ABOVE THE BRIDGE AND MAY ONLY BE VISIBLE FROM THE BRIDGE). SURVEY FROM THE BRIDGE UPSTREAM 1.1 MILES JUST PAST A ROAD WHICH CROSSES THROUGH THE CREEK (SIGN ON ALDER ON RIGHT). EXIT VIA THE ROAD.

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SPAWNING SURVEY LOCATION DESCRIPTION FORM

DAT	E:	SURVEYOR	ID:	Fish & Wild
DISTRICT:				
BASIN:				
SUBBASIN:				
SURVEY:				· [
SEGMENT:				
MAP COORD		EAM END OF SU	RVEY:	
DESCRIPTION STANDARD F THAT YOUR THE SAME S LIKELY TO CI	N. PRINT LEGIBLY RULES OF GRAMMAR. DESCRIPTION WILL EN TREAM SEGMENT. TR' HANGE OVER TIME.	, USE COMPLETE INCLUDE AS MU ABLE FUTURE SU Y TO AVOID LAN	SENTENCES, AND O ICH DETAIL AS NECE JRVEYORS TO LOCA IDMARKS AND NAM	DBSERVE ESSARY SO TE EXACTLY ES WHICH ARE
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		· · · · · · · · · · · · · · · · · · ·	USE REVERSE	TO CONTINUE)

FIELD SURVEY FORM



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1996 SALMON SPAWNING SURVEY FORM

Survey Number: 25641.00 Segment Number: 1

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Influence Code: CH: ____ CO: ____ CU: ____



District: 2 TILLAMOOK Basin: 08 WILSON RIVER Subbasin: 2 LITTLE NORTH FORK Survey: L. N. FK. WILSON R (0.5 miles) Target Species and Survey Type STANDARD - CHINOOK STANDARD - CHUM SUPPLEMENTAL - COHO

Location: PROCEED ON HWY 6, ABOUT 5 MILES TO THE GUIDE SHOP. PARK AT THE LARGE GRAVEL LOT JUST PAST THE GUIDE SHOP AND CROSS THE WILSON TO THE MOUTH OF THE LITTLE NORTH FORK (SIGN ON ALDER ON LEFT). SURVEY FROM THE MOUTH UPSTREAM 0.5 MILES (SIGNS ON TWO SMALL ALDERS ON THE LEFT). EXIT VIA ROAD ON RIGHT.

DATE	Sur-	1.1	CHINOOK COHO CHUM									СОНО					STLH	R E D	W H T	FLO	V	T Si AC	ARGET PECIES TIVIT	S Y	COMM	FNTS	
mmuuu		Adult	Jack	Male	Female	L Jack J	Link		Jack	Male I	Female	Lack I	Unk	Adult	Male	Female	Unk	D	s	R	ŭ	s	СН	CO	CU	1	2
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SPAWNING SALMON SURVEY FORM

This data form is used to record counts and activities of spawning salmon and other associated aspects of the survey.

<u>Header</u>

<u>NOTE:</u> Target Species, Influence, and/or Survey Type may be pre-printed for established survey areas. All fields in the header will need to be filled in for new or established survey areas.

DISTRICT

Fisheries District:

- 1 North Coast
- 2 Tillamook
- 3 Lincoln
- 4 Siuslaw
- 5 Umpqua
- 6 Coos/Coquille/Tenmile
- 7 Lower Rogue/South Coast
- 8 Upper Rogue
- 20 Columbia River Management
- 21 Lower Willamette

TARGET SPECIES

Species Which is the Focus of the Survey:

- 1 Fall Chinook
- 2 Coho
- 3 Chum
- 4 Other (Steelhead, Spring Chinook, etc.)

SURVEY TYPE

Pertains to TARGET SPECIES:

- 1 Standard index survey
- 2 Supplemental survey
- 3 Spot check
- 4 Random (coho only)
- 5 Lake (coho only, Tenmile, Siltcoos and Tahkenitch Lakes)
- 6 Volunteer
- 7 (NWHF) National Wildlife Heritage Foundation

INFLUENCE (Listed Below in Priority Order)

Pertains to TARGET SPECIES. Only <u>ONE INFLUENCE</u> per survey is assigned. If more than one influence applies, assign only the *highest priority influence*.

- WILD (Priority I, Highest Priority): No fed or unfed hatchery salmon released within 10 miles of survey segment within the last 3 years (1994-96) for coho or 5 prior years (1991-95) for chinook. All chum surveys are classified as *wild*. *Influence Code 1*.

- FED FISH (Priority II): Fed hatchery salmon (smolts or pre-smolts) released within 10 miles of survey segment within the last 3 years (1994-96) for coho or during the 5 prior years (1991-95) for chinook. *Influence Code 2.*

- **BROOD STOCK (Priority III):** Adults of target species removed within 10 miles of survey segment during year when survey is conducted. *Influence Code 4.*

- UNFED FISH (Priority IV, Lowest Priority): Unfed hatchery salmon (fry) released within 10 miles of survey segment during the 2 prior years (1994-95) for coho or during the 5 prior years (1991-95) for chinook. *Influence Code 3.*

LOCATION CODES

BASIN -- Use 2 digit code **SUBBASIN** -- Use 1 or 2 digit code; whichever applies **SURVEY** -- Use 7 digit code for all survey types (*e.g.* 12345.67) **SEGMENT** -- Use 1 digit code

Body

DATE

Date of the survey

Enter the month and day the survey took place (e.g. 01/22).

SURVEYOR ID

Surveyor ID number

Used to identify the person conducting the survey. If a survey is divided between more than one surveyor, the surveyor filling out the survey form should use his/her ID number.

CHINOOK

LIVE

Adult - Number of live adults Jack - Number of live jacks

DEAD

Male- Number of dead malesFemale- Number of dead femalesJack- Number of dead jackUnk- Number of dead unknown sex

A chinook jack is defined as a male measuring 510 mm (20 inches) or less in MEPS length or 600 mm (24 inches) or less in fork length.

MEPS length is the "mid-eye to posterior scale" (caudal peduncle) measurement.

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LIVE

Adult - Number of live adults Jack - Number of live jacks

DEAD

Male - Number of dead males Female - Number of dead females - Jack - Number of dead jacks Unk - Number of dead unknown sex

A coho jack is defined as a male measuring 430 mm (17 inches) or less in MEPS length, or 500 mm (20 inches) or less in fork length.

CHUM

<u>LIVE</u>

Adult - Number of live adults

DEAD

Male- Number of dead malesFemale- Number of dead femalesUnk- Number of dead unknown sex

STLHD

Number of steelhead, dead and alive

Number of spawning redds observed (optional information)

A redd may be identified by a hollow in the gravel and the adjacent downstream mound of excavated gravel. The gravel from a recently dug redd will usually appear lighter colored and less uniformly oriented than the undisturbed gravel. Care should be taken not to confuse redds with general stream scouring or scouring associated with wood, rootwads, or larger rocks.

WTHR

Describe the weather as:

- C Clear
- O Overcast
- F Foggy
- R Rain
- S Snow
- P Partly Cloudy

FLOW

Describe the stream flow as:

- L Low
- M Moderate
- H High
- F Flooding

VISIBILITY

Describe stream visibility as:

- 1 Can see bottom of riffles and pools
- 2 Can see bottom of riffles
- 3 Cannot see bottom of riffles or pools

FISH ACTIVITY

Activity of the *Live* Fish in the Survey

- 13 Most fish spawned out
- 14 Most fish holding in pools (prior to spawning)
- 15 Most fish migrating through survey area
- 16 Most fish actively spawning (as demonstrated by courtship behavior, excavation of redds, competition for mates, and guarding of redds)

COMMENTS

Use comment codes from the following list. There is room for two comments per survey. Prioritize comments on the Salmon Spawning Survey Form according to the priority of the categories listed below. If further comments would be useful, record the date and comment code on the reverse side of the Spawning Survey Evaluation Form.

COMMENT CODES

Marks and Tags (Priority I, Highest Priority)

* This category must be represented in the comment section when appropriate *

- 50 Adipose (CWT) fish observed
- 51 Adipose (CWT) fish observed, snout recovered
- 52 Live tagged fish observed
- 53 Dead tagged fish observed
- 54 Dead tagged fish observed, tag recovered
- 55 Fin clipped (other than adipose fin) fish observed

Area Surveyed (Priority II, Mid Priority)

- 01 Includes tributary to index
- 02 Holes not surveyed
- 03 Survey boundary description change
- 63 Partial count

Factors Affecting Fish Abundance (Priority II, Mid Priority)

- 40 Poaching
- 41 Predation / Scavenging
- 42 Stream low
- 43 Stream dry
- 44 Instream habitat improvement in or near index section
- 45 Habitat damage in or near survey section
- 46 Blockage below survey area

COMMENTS (continued)

Viewing Conditions (Priority II, Mid Priority)

- 20 Dark (pertains to the light source, not the water clarity)
- 21 Dark in pools (pertains to water quality, often tannins)
- 22 High glare
- 23 Partly frozen
- 24 Not surveyable (stream too high and/or turbid, counts will be disqualified)

Survey Timing (pertains to TARGET SPECIES) (Priority III, Lowest Priority)

NOTE: These codes are used in cases where the stream segment is not surveyed over the course of the spawning season (typically due to extreme stream flows). They are an indication of whether the surveyor feels the peak run was sampled or the survey was ended too early or too late. These codes need only be used when two or more surveys during the season are separated by more than ten days.

- 10 Peak survey
- 11 Survey too early--before peak
- 12 Survey too late--after peak

Stream Conditions within the Survey Area (Priority III, Lowest Priority)

- 31 Impassable log jam
- 32 Passable log jam
- 33 Impassable beaver dam
- 34 Passable beaver dam
- 35 Impassable culvert
- 36 Evidence of scouring of stream bed
- 37 Severe stream bank erosion
- 38 Passable culvert

Miscellaneous (Priority III, Lowest Priority)

- 60 Most carcasses washed out
- 61 Heavy silt deposition in stream bed.
- 62 Count in holes estimated
- 64 Exposed redds due to low flow
- 65 Redds obliterated due to high flow
- 66 Actual number probably substantially higher than observed
- 67 No new spawning fish observed



COHO SALMON SPAWNING SURVEY EVALUATION FORM

SURVEY #	SE	EGMENT # 🛛	SURVEY NAME	

ID # OF SURVEYOR COMPLETING FORM

PROBLEMS WITH SURVEYING THIS STREAM SEGMENT:

BARRIERS TO UPSTREAM MIGRATION:

APPROX. LOCATION (0.1 MILE)	NATURE OF BARRIER	DID IT BECOME PASSABLE? WHEN (DATE)?	WERE SALMON OBSERVED UPSTREAM FROM IT

ESTIMATES OF SPAWNING GRAVEL QUANTITY:

SURVEYOR ID	DATE	SPAWNING GRAVEL (M ²)

DISTRIBUTION OF SPAWNING GRAVEL (% OF TOTAL):

DOWN-	LOCATION	WITHIN	SURVEY	SEGMENT	UP.
STREAM	START TO 1/4	1/4 TO 1/2	1/2 TO 3/4	3/4 TO END	STREAM
BOUNDARY					BOUNDARY

DISTRIBUTION OF SPAWNING FISH (% OF TOTAL):

DOWN-	LOCATION	WITHIN	SURVEY	SEGMENT	UP-
STREAM	START TO 1/4	1/4 TO 1/2	1/2 TO 3/4	3/4 TO END	STREAM
BOUNDARY					BOUNDARY
	DISTRIBUTION BA	ASED ON:	FISH REDDS	(CIRCLE (ONE)

GENERAL COMMENTS AND ADDITIONAL CODED COMMENTS (USE REVERSE SIDE):

INSTRUCTIONS FOR COMPLETING COHO SALMON SPAWNING SURVEY EVALUATION FORM

This form is used to evaluate the spawning habitat for coho salmon in a given survey segment. It is also used to note any factors that may influence our ability to obtain accurate estimates of spawner abundance in the survey segment. One form is to be completed for each coho survey segment at or near the end of the spawning season. This form should be completed by the surveyor who most often conducted the survey that is being evaluated. Use input from other surveyors as needed,

SURVEY

Enter 7 digit survey identification code (e.g. 12345.67).

SEGMENT

Enter 1 digit segment identification code

SURVEY NAME

Enter name of survey (e.g. Salmon Creek).

SURVEYOR ID

Enter the 2 digit surveyor identification code of the surveyor who is completing the form.

PROBLEMS WITH SURVEYING THIS STREAM SEGMENT

List any major problems that prevented the survey from being made or caused the survey to be difficult (road conditions, extended high stream flows and/or turbidity, problems with access through private land, etc.). Identify any factors related to the condition of the survey segment that may have hindered your ability to make accurate counts of salmon (water clarity, structure in the stream channel, viewing conditions, etc.).

BARRIERS TO UPSTREAM MIGRATION

List up to three potential barriers to upstream migration occurring within the survey segment during the course of the spawning season. Barriers are best identified by the presence of salmon immediately downstream from an obstacle but not upstream of the obstacle. Record the approximate location of the barrier from the survey starting point (nearest 0.1 miles from the start), nature of the barrier (i.e. beaver dam, culvert, log jam, waterfall, etc.), and the date when the barrier became passable (date when fish were first observed upstream from the barrier or when high flows removed the barrier). If you feel the barrier prevented fish passage for the

BARRIERS TO UPSTREAM MIGRATION (continued)

entire season, note as such. <u>Wait until the first freshet (high water) has occurred before</u> <u>identifying barriers</u>. If the endpoint of the survey is a barrier, mention that too.

ESTIMATES OF SPAWNING GRAVEL QUANTITY

Record three estimates of the quantity of coho salmon spawning gravel in the survey segment (See page 21 for method of gravel measurement). Measurements should be spaced throughout the survey season and should begin after the first freshet (high water event) has occurred. It should be possible to estimate the quantity of spawning gravel while doing the survey without spending a lot of extra time. If hand tally counters are available, they may be helpful.

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DISTRIBUTION OF SPAWNING GRAVEL

Record the distribution of spawning gravel among the four quarters of the survey segment to the nearest 5% of the total. Base distribution on all three estimates of spawning gravel quantity.

DISTRIBUTION OF SPAWNING FISH

Record the distribution of spawning coho salmon among the four quarters of the survey segment to the nearest 5% of the total. If no fish are observed, use redds. Base the estimate on the distribution of all spawners observed over the spawning season.

GENERAL COMMENTS

Use the reverse side of the form to record observations that will help you complete this form. List any comments that may help us in interpreting your responses, and list any other noteworthy features of the survey segment. Some possible questions to consider include: What are your impressions of the habitat? Did the habitat significantly change during the season, and if so, how? Are spawning habitat improvement structures present, and are they functioning to improve spawning habitat? If no coho were seen, do you have any idea why? Were there any tributaries within the segment in which coho were seen? Were the names, addresses, and/or phone numbers of landowners mentioned in the description correct? Was this survey unusual compared to other surveys you have done? Attach additional sheets as necessary.

In many cases you will see certain sections of a stream more than any other person. You may end up learning things about a stream that no one else knows. If you feel that you have information that would either increase the quality of our data, correct possible errors in our stream database, or increase our understanding of a certain stream, this form is where that information should go.

COHO SPAWNING HABITAT

DESCRIPTION

Suitable spawning sites for coho salmon are characterized by gravel size, water depth, and water velocity. Optimal sites for redds are located at the tail end of pools or the head end of riffles (tail-outs), however other habitat types such as glides or side channels may also be used. Tail-outs appear to be preferred because they offer (1) large uniform gravel deposits, (2) a gradient of water depth and velocity, allowing options for redd construction over varying stream flow, (3) good inter-gravel flow through downwelling of stream flow and (4) protection from gravel scouring during freshets. Following is a listing of the physical parameters of optimal redd sites of coho salmon in Oregon coastal streams:

Habitat Unit Type

- Tail-out of pool
- Glide

Gravel Size

- < 15 cm (6 in) in diameter
- > 2 cm (0.5 in) in diameter
- Prefer mean diameter of 9 cm (3-4 in)
- < 50 % of gravel area intermixed with fines (mud, silt, sand) or with larger rock (cobble, boulder)

Volume of Gravel Patch

- \geq 20 cm (8 in) depth of deposit (thickness)
- $\geq 1 M^2$ (9 ft²) surface area of deposit

Water Depth Over Gravel

- < 62 cm (24 in)
- > 4 cm (2 in)
- Prefer mean of 18 cm (7 in)

Method of Estimation of Coho Spawning Habitat During Spawning Season

The availability of spawning sites (quantity of spawning gravel) can be estimated during spawning surveys by quantifying the occurrence of suitable gravel deposits within the stream channel under baseline winter flow conditions. If spawning is observed in habitat other than optimal habitat, record those observations in the Spawning Survey Evaluation Form.

Follow this procedure when conducting spawning gravel estimates:

Within the wetted channel width under *low* or *moderate* flows, count each 2 M² patch of gravel that is between 4 cm (ankle height) and 62 cm (knee height) below the surface of the water. Gravel size can <u>range</u> from that of a <u>marble</u> to that of a <u>grapefruit</u>, but should <u>average</u> about the size of a <u>baseball</u>. No more than 50% of a patch should consist of fines (sand, silt, mud) or large rock (cobble over 6 inches in diameter or boulders). Do not count thin layers of gravel over silt or bedrock; you should be able to bury your foot in the gravel.

Gravel deposits larger than 2 M^2 are counted by estimating their area to the nearest M^2 and adding this value to your tally. Gravel patches should be relatively level, located in the tail-out of a pool or in a glide, and not piled up at a steep angle against the bank. If the water velocity over the gravel is excessively fast, the gravel will not likely be used. Make the first estimate after the first freshet, and make one estimate per stream per month starting in November.



FIN NOMENCLATURE OF SALMON



NO SPOTS ON TAIL SMALL PUPIL	SMALL ROUND SPOTS ON BOTH LOBES	WHITE GUMS SMALL ROUND SPOTS ON UPPER LOBE ONLY	LARGE ELONGATED SPOTS	LARGE PUPIL	What it looks like when it is an adult.	
Sockeye (red)	King (chinook)	Silver (coho)	Pink (humpback)	Chum (dog)	Name of Salmon	SALMON C
Summer	Fall	Fall	Summer	Fall	When does it spawn?	HART
<pre>*blue tinged silver color *speckles on sides *turns bright red when spawning</pre> *blue-green back *spots on both sides of tail and back		*bright silver *spots on top of body and top of tail fin *teeth are needle sharp	*heavily spotted back *hump behind the head	<pre>*fine dark speckles on back *no spots *dark side markings *large teeth at spawning</pre>	What does it look like	
5 to 7 lbs.	10 to 50 lbs.	6 to 16 lbs.	3 to 5 lbs.	8 to 18 lbs.	How much does it weigh?	
dark red	orangish-pink	dark pink	light pink to white	pink	What color of "flesh" to look for at the grocery store	
3 to 7 years	5 to 7 years	2 to 4 years	2 years	3 to 5 years	How long it lives	

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CWT and Fin-mark Recoveries from Spawning Fish Surveys

Instructions

Recoveries of Coded-wire tags (CWT) and fin marks from salmon encountered on spawning fish surveys are used to assess straying of hatchery salmon to natural spawning areas. CWTs are uniquely marked minute pieces of wire that are inserted into the fleshy part of a salmon snout prior to being released from hatcheries. These tags are the primary means of uniquely identifying groups of salmon released from hatcheries. Roughly 9% of the salmon from Oregon's hatcheries receive CWTs prior to being released. CWT salmon are recognized by the absence of their adipose fin that is cut off at the time of tagging. CWT recoveries are decoded by removing the snout from adipose-clipped fish and sending the snout to the CWT processing lab for dissection and reading. In addition to CWTs, other fin marks are sometimes used to identify hatchery salmon. The occurrence of these fin marks are also recorded from salmon carcasses recovered on spawning surveys. The following procedures are used to sample CWT and other fin marked salmon and record recovery data:

- 1. Staple five ID labels in the spawning survey field notebook. When a marked fish is found, surveyors should write the following information in their field notebook: (1) *date*, (2) *stream name*, (3) *species*, (4) *sex*, and (5) *mid-eye to posterior scale (MEPS) length*. In *the field notebook, the ID number should be written down that corresponds with this information*. It is not essential to write the information on the ID label since the mark recovery form will be the primary source of information about mark recoveries. However, it might be a good idea to write the information on the ID label to minimize the possibility of losing the data.
- If the fish was adipose-clipped, remove the snout and place it and the ID label in a plastic snout-bag. If a fish is found with a mark other than an adipose-clip, it should be given an ID number. After giving the fish an I. D. number, discard the I. D. label so as to insure that its I. D. number will not be reused. Number codes for fin marks are shown on the right margin of the mark recovery form.
- 3. When surveyors return to their field station, the mark information needs to be transferred from the field notebook to the mark recovery form. Note that an 11 digit code is used to identify survey locations (i.e. 25/1/26134.00/2). Also note that MEPS length is recorded in millimeters, and codes at right of form are used as data entries for the species, fin mark(s), and sex fields.
- 5. At the end of the season, snouts will be picked up from the district offices and transported to Clackamas for processing. Attach a label to the container of snouts that shows (1) *the district of origin*, (2) *the year*, and (3) *a statement that they were recovered on spawning fish surveys*.
- 6. Send the mark recovery summary forms to Cedric Cooney in Corvallis at the end of the spawning season.

1996 SNOUT ID LABELS

NUMBER SERIES	DISTRICT OR STATION
96H 8001-8100	SEASIDE
96H 8101-8200	JEWELL
96H 8201-8400	TILLAMOOK
96H 8401-8500	SALMON RIVER INDICATOR STOCK
96H 8501-8600	CORVALLIS
96H 8601-8700	LINCOLN
96H 8701-8800	SIUSLAW
96H 8801-8900	UMPQUA
96H 8901-9000	COOS-COQUILLE-TENMILE
96H 9001-9100	SOUTH COAST
96H 9101-9200	ELK AND SIXES RIVERS SURVEYS
96H 9201-9300	UPPER ROGUE
96H 9301-9400	CHETCO PROJECT
96H 9401-9500	UNASSIGNED

EXAMPLE OF SNOUT ID LABEL (actual size)





CODED-WIRE TAG AND FIN-MARK RECOVERIES FROM SPAWNING GROUND SURVEYS

.

NO.	ID NUMBER ON SNOUT LABEL (eg. 96H1407)	FISH- ERY	SURVEY CODE BASIN/SUBBASIN/ SURVEY/SEGMENT (eg. 39/3/24318.00/2)	DATE MM/DD/YY (eg. 01/05/97)	SPECIES CODE	MEPS LENGTH (MM)	FIN MARK CODE	SEX	SNOUT TAKEN NO#0 YES=1	SURVEY NAME	CODES:
1		18									
2		18									
3		18									_SPECIES
4		18									1=CHINOOK
5		18								·····	2=COHO
6		18								·	3=STEELHEAD
7		18									5=CHUM
8		18									0=UNKNOWN
9		18	· · · · · · · · · · · · · · · · · · ·								
10		18		<u> </u>							FIN MARKS
11		18									
12		18		<u> </u>							2=ADIPOSE
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14		18									4=LEFI VENIRAL
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22		18					i				
23		18									1=MALE
24		18									2=FEMALE
25		18									

SCALE SAMPLING INSTRUCTIONS

Coho Salmon

- 1. Sample scales from all carcasses found.
- 2. Record MEPS length in millimeters.
- 3. Record survey number and segment number under *locality* on scale envelope.
- 4. If sampling scales from adipose-clipped fish record snout ID number on scale envelope.
- 5. Cut-off tail from all fish that are scale sampled to avoid re-sampling.
- 6. Sample scales from outside the key area only if there are no scales in the key area on either side of the fish and only if the scales are taken from above the lateral line and less than two inches (five centimeters) outside the key area. Be sure to indicate that the scales are from outside the key area (<u>Comment Code C</u>).

Chinook Salmon

- 1. Need random collection of 500 scale samples from the six following index basins:
 - Nehalem Wilson Siletz Siuslaw Coquille Chetco
- 2. Consult District Biologist to find out if any additional chinook scale samples need to be taken in your district.
- 3. Sample scales from all snout-sampled fish.
- 4. Follow instructions 2-6 under coho.

Chum Salmon

- 1. Need random collection of 250 scale samples from Tillamook Basin.
- 2. Follow instructions 2-6 under coho.

SCALE SAMPLING PROCEDURES

This procedure should be followed when sampling scales from any salmon or steelhead.

- 1. Locate key area by following the diagonal row of scales down and back from the posterior insertion of the dorsal fin to the first 3 scales above, but not including the lateral line. One to two scales in front of (anterior) and behind (posterior) these three scales are within the key area (see figure).
- 2. With forceps, pluck 4 5 scales from this area and place between the paper insert in the envelope. Be very careful that scales are from key area.
- 3. Turn fish over and repeat procedure on the other side of the fish, placing scales in the same envelope.
- 4. Write any pertinent information regarding that fish on the envelope.
- 5. If scales are absent from the key area on one side of the fish, sample from the key area on the other side of the fish. If scales are absent in the key area of both sides of the fish, substitute scales from up to two inches (five centimeters) outside the key area but above the lateral line.

ateral line KEY SCALE DORSAL AREA FIN POSTERIOR ANTERIOR LATERAL LINE - MEPS LENGTH -

GENERAL SURVEY INSTRUCTIONS

- 1. Examine all carcasses for fin clips and tags, and remove snouts from all adipose clipped fish.
- 2. Leave dead fish where they are found.
- 3. Only count carcasses with intact skeleton (skull through caudal peduncle, although the tail may be severed if a scale sample was taken previously).
- 4. Use polarized sun glasses. Amber tinted glass lenses are best. Saliva or spray-on defogger may help reduce condensation on the glasses.
- 5. Walk all stream channels (side channels, backwater pools, etc.).
- 6. Keep the direction of the survey constant.
- 7. Wait until the end or termination of the survey to classify weather, flow and visibility for each survey area. *Comments should reflect the conditions of a majority of the survey.*
- 8. Ensure that each survey description is clear and accurate, and that survey starting and ending markers are intact. If necessary, revise the survey description using the Spawning Fish Survey Description Form and replace the markers.
- 9. If the mileage of a survey area is revised or changed, submit a new Spawning Fish Survey Description Form.
- 10. Count all species of salmon and steelhead seen in each survey area regardless of the target species of that survey area.
- 11. If live fish of the *target species* are observed during any visit to a survey area, note whether most are: (1) holding in pools, (2) migrating through survey area, (3) actively spawning, or (4) spawned out. Use comments 13-16 to record this on the Spawning Fish Survey Form. These data are mandatory anytime live fish of the target species are observed.
- 12. For survey areas where Area-Under-the-Curve (AUC) estimates are made (all standard surveys and any coho surveys), intervals between successive counts cannot exceed 10 days from the date when the first visit is made. Surveys made under water visibility rating 3, or surveys having the comment not surveyable are not counted when calculating this interval. Standard surveys have a higher priority than all other types of surveys.
- 13. Record survey data in the Spawning Fish Survey Field Book and transfer the data to the Spawning Fish Survey Form **as soon as possible**. *Carefully* read the instructions for completing the form at the beginning of and throughout the season.
- 14. Send copies of <u>all</u> survey data collected during each semi-monthly period (on the 1 st and 15th of each month) to the Marine Regional Office in Newport in care of Donna Lamb.

PUBLIC RELATIONS AND SAFETY

When you are conducting surveys, you are personally representing the Oregon Department of Fish and Wildlife to landowners, anglers, and the general public. In order to insure continuing public cooperation with our efforts, it is essential that we maintain a positive image and relationship with the public.

If a landowner challenges your right to conduct surveys on their land, explain your understanding that permission was obtained during the summer, apologize for the misunderstanding, and request permission to continue the survey. *Under no circumstances* conduct a survey if the landowner denies you permission. If someone other than a landowner challenges your right to conduct a survey, explain your understanding that permission was obtained during the summer, and tell them that you will seek confirmation of permission through your supervisor. *Under no circumstances* conduct a survey if you feel that it is unsafe to do so.

Always treat members of the public with respect. It is not uncommon to encounter a person who has complaints about ODFW or other fish and wildlife management issues. If you encounter an angry person, end the encounter if you feel unsafe. Otherwise, repeating or paraphrasing back what the person says will help you gain that person's trust by letting them know that you hear and understand what they are saying. Find a point of agreement and end the conversation. Avoid prolonged discussions: your time and skills as a surveyor are valuable.

Respect traffic, especially on logging roads. Generally, emergency vehicles, low boys, log trucks, and pick-ups have the right-of-way in that order. <u>Use your CB radio when you are on industrial forest roads!</u> An example of how you might use your CB to warn unseen vehicles of your approach is "Milepost 17 up the Eighty-one Fifty-five Road". You cannot count on other vehicles using their CBs.

Respect your limits when conducting a survey. Don't push your luck when crossing strong streams, slick rocks or bedrock, and slick, unstable, or rotten logs. Keep all of your senses aware at all times (that bear needs that salmon more than we need the data).

We Would Rather Lose A Survey Than A Surveyor

KEEP SAFETY IN THE FOREFRONT OF YOUR MIND

AT ALL TIMES

ODFW MILEAGE REPORT

- 1. RECORD FROM THE FIRST OF THE MONTH TO THE LAST DAY OF THE MONTH.
- 2. AT THE END OF THE MONTH, DIRECT THE WHITE COPY TO PORTLAND, THE YELLOW COPY TO CORVALLIS, AND LEAVE THE PINK COPY IN THE BOOK.

	EQUIPMENT MILEAGE AND USE REPORT													
OREGO	FOR MON	TH OF	ODOMETER/HOUI READING END OF PRI	RMETER EV. MONTH LOCATION					EQUIPMENT NUMBER					
Fish & Wildl	OCT	19 93	13887	-	N	ewport		_ _	8987654					
Date	Odometer Hourmeter	Miles/ Hours	Driver Name	From		То	DV	PG	AC	UN	Project Number			
18	13987	100	Coovey	Corvol	lís	Newport	12	34	54	78	123456			
21	14087	100	JACOPS	Newport		ALSEA	09	87	65	43	210123			
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REVERSE SIDE

FUEL REPORT

DATE	ODOMETER	GALLONS	GAS	DIESEL	OTHER SERVICE
18	13,980	14.2	X		OIL CHECKED - OK
20	14,050	2.5	X		ADD 1 QT. OIL

PHONE LISTING

NAME

Steve Jacobs Cedric Cooney Donna Lamb Lisa Borgerson Howard Crombie Brian Riggers

Todd Kemp

TITLE

District Biologist
Asst. District Biologist
OCN Inventory Project Leader
OCN Inventory Asst. Project Leader
Data Assistant
Scale Reading Project Leader
Crew Chief for North Coast and Fillamook Districts
Crew Chief for Umpqua, Coos-Coquille- Tenmile, and South Coast Districts Crew Chief for the Upper Rogue District Local O.S.P. Game Warden

NUMBER

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(541) 737-7636	
(541) 737-7638	
(541) 867-4741	
(541) 737-7630	
(503)	
(541) 756-4129	
(541)	

1996 SALMON SPAWNING SURVEY FORM

	1996 SALMON SPAWNING SURVEY FORM									
Survey	Number:	Segment Number:	Influence Code: CH: CO: CU:	E Sk						
District: Basin: Subbasin: Survey: Location:		(miles)	Target Species and Survey Type: - - - - - - - -	Fish & Wildlife						

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STANDARD SPAWNING SURVEYS FOR FALL CHINOOK SALMON IN OREGON COASTAL RIVER BASINS FOR THE 1996-97 SURVEY SEASON.

RIVER BASIN OR SUBBASIN	STREAM SEGMENT	MILES							
NORTH COAST FISHERY MANAGEMENT DISTRICT									
NEHALEM: MAINSTEM	COOK CREEK CRONIN CREEK HUMBUG CREEK	1.0 1.0 1.0							
NORTH FORK SALMONBERRY R.	EAST HUMBUG CREEK SOAPSTONE CREEK SALMONBERRY RIVER	1.0 0.7 0.5							
TILL	AMOOK FISHERY MANAGEMENT DISTRICT								
KILCHIS		0.6							
WILSON	LITTLE SOUTH FORK, KILCHIS RIVER LITTLE NORTH FORK, WILSON RIVER	1.0 0.5							
TILLAMOOK	TILLAMOOK RIVER	2.8							
NESTUCCA	CLEAR CREEK	0.6							
-	NIAGARA CREEK	0.4							
LI	NCOLN FISHERY MANAGEMENT DISTRICT								
SILETZ: MAINSTEM ROCK CREEK YAQUINA ALSEA:	CEDAR CREEK EUCHRE CREEK SUNSHINE CREEK BIG ROCK CREEK UPPER YAQUINA RIVER <i>GRANT CREEK</i> ACCESS DENIED SALMON CREEK	1.6 1.0 1.2 0.9 2.0 <i>1.7</i> 0.6							
DRIFT CREEK FIVE RIVERS	LOWER DRIFT CREEK LOWER LOBSTER CREEK BUCK CREEK	1.5 2.2 1.0							
NORTHFORK	NORTH FORK ALSEA RIVER	1.5							
SIL	JSLAW FISHERY MANAGEMENT DISTRICT								
SIUSLAW: MAINSTEM	SWEET CREEK LOWER WHITTAKER CREEK UPPER WHITTAKER CREEK ESMOND CREEK	0.5 0.3 0.4 1.0							

STANDARD FALL CHINOOK SURVEYS CONTINUED.

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RIVER BASIN OR SUBBASIN	STREAM SEGMENT	MILES							
SIUSLAW FISHERY MANAGEMENT DISTRICT (CONTINUED)									
SIUSLAW (CONTINUED): NORTH FORK LAKE CREEK	NORTH FORK SIUSLAW RIVER WEST FORK INDIAN CREEK ROGERS CREEK LAKE CREEK	0.8 1.2 1.3 0.8							
COOS-COQUILLE FISHERY MANAGEMENT DISTRICT									
COOS: MILLICOMA RIVER SOUTH FORK	WEST FORK MILLICOMA RIVER EAST FORK MILLICOMA RIVER SOUTH FORK COOS RIVER	0.5 0.5 1.0							
COQUILLE: NORTH FORK EAST FORK MIDDLE FORK	WILLIAMS RIVER A NORTH FORK COQUILLE R. (UPPER-A) MIDDLE CREEK D LOWER EAST FORK COQUILLE RIVER EAST FORK COQUILLE R. (ABOVE DORA) MIDDLE FORK COQUILLE RIVER ROCK CREEK (LOWER A) SOUTH FORK "C" COOLUULE RIVER	1.0 2.0 1.0 0.3 0.5 0.5							
SOUTH FORK	LOWER SALMON CREEK	0.8							
FLORAS CREEK SIXES RIVER EUCHRE CREEK LOWER ROGUE RIVER HUNTER CREEK PISTOL RIVER CHETCO RIVER WINCHUCK RIVER	UPPER FLORAS CREEK LOWER DRY CREEK UPPER DRY CREEK UPPER EUCHRE CREEK JIM HUNT CREEK UPPER LOBSTER CREEK UPPER HUNTER CREEK DEEP CREEK BIG EMILY CREEK BEAR CREEK	0.5 1.7 1.7 1.0 0.8 1.0 1.0 0.4 1.0 0.8							

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STANDARD SPAWNING SURVEYS FOR COHO SALMON IN OREGON COASTAL RIVER BASINS FOR THE 1996-97 SURVEY SEASON.

RIVER BASIN OR SUBBASIN	STREAM SEGMENT	MILES				
NORTH COAST FISHERY MANAGEMENT DISTRICT						
NECANICUM ELK CREEK NEHALEM	UPPER NECANICUM RIVER WEST FORK NORTH FORK CRONIN CREEK WEST HUMBUG CREEK HAMILTON CREEK OAK RANCH CREEK NORTH FORK WOLF CREEK	1.5 0.5 1.0 1.1 1.6 1.4				
TILLA	MOOK FISHERY MANAGEMENT DISTRICT					
KILCHIS WILSON TILLAMOOK NESTUCCA LITTLE NESTUCCA	SAM DOWNS CREEK CEDAR CREEK UPPER DEVIL'S LAKE FORK SIMMONS CREEK CLEAR CREEK BEAR CREEK BEAR CREEK	1.0 2.8 0.7 0.6 0.8 0.8 0.8				
- LIN	COLN FISHERY MANAGEMENT DISTRICT					
SILETZ YAQUINA BEAVER CREEK	GRAVEL CREEK FOURTH OF JULY CREEK UPPER YAQUINA RIVER SALMON CREEK NORTH FORK BEAVER CREEK	1.0 0.8 2.0 0.6 1.0				
DRIFT CREEK	HORSE CREEK NETTLE CREEK LOBSTER CREEK CHERRY CREEK WILSON CREEK	1.0 0.8 1.3 0.76 1.3				
SIUSLAW FISHERY MANAGEMENT DISTRICT						
YACHATS SIUSLAW:	WILLIAMSON CREEK SCHOOL FORK	1.3 0.7				
MAINSTEM NORTH FORK	DOGWOOD CREEK DOE CREEK BILLIE CREEK	1.0 0.5 1.35				

STANDARD COHO SURVEYS CONTINUED.

RIVER BASIN OR SUBBASIN	STREAM SEGMENT	MILES				
SIUSLAW FISHERY MANAGEMENT DISTRICT (CONTINUED)						
SIUSLAW (CONTINUED): LAKE CREEK	ROGERS CREEK MISERY CREEK NORTH FORK PANTHER CREEK	1.3 0.8 0.8				
UMF	QUA FISHERY MANAGEMENT DISTRICT					
UMPQUA: MAINSTEM SMITH RIVER SOUTH UMPQUA RIVER	SCHOFIELD CREEK DEAN CREEK BUCK CREEK BEAVER CREEK LITTLE SOUTH FORK NORTH MYRTLE CREEK QUINES CREEK	1.36 1.1 1.75 1.5 1.0 1.0 1.0				
COOS-C	OQUILLE FISHERY MANAGEMENT DISTRICT					
COOS BAY: MAINSTEM MILLICOMA RIVER SOUTH FORK COOS R.	LARSON CREEK MARLOW CREEK DANIELS CREEK	1.3 0.62 0.8				
COQUILLE RIVER: NORTH FORK EAST FORK MIDDLE FORK SOUTH FORK	NORTH FORK COQUILLE R. (UPPER A) CHERRY CREEK A ACCESS DENIED ALDER CREEK STEEL CREEK SLATER CREEK SALMON CREEK (UPPER) CHECK FOR ACCESS	1.0 1.8 1.0 0.8 0.5 2.0				

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LAKE SPAWNING SURVEYS FOR COHO SALMON IN OREGON COASTAL LAKE BASINS FOR THE 1996-97 SURVEY SEASON.

LAKE BASIN OR SUBBASIN	STREAM SEGMENT	MILES				
SIUSLAW FISHERY MANAGEMENT DISTRICT						
SILTCOOS RIVER: MAPLE CREEK	MAPLE CREEK NORTH PRONG CREEK HENDERSON CREEK	0.8 0.5 0.3				
FIDDLE CREEK	FIDDLE CREEK ALDER CREEK	1.5 1.0				
TAHKENITCH CREEK FIVEMILE CREEK	FIVEMILE CREEK	0.8				
LEITEL CREEK	LEITEL CREEK	0.8				
COOS-C	OQUILLE FISHERY MANAGEMENT DISTRICT					
TENMILE CREEK NORTH TENMILE LAKE	ALDER CREEK (STD UNIT) BIG CREEK (STD UNIT) MURPHY CREEK NOBLE CREEK (STD UNIT)	0.5 0.5 1.1 1.2				
SOUTH TENMILE LAKE	ADAMS CREEK (MF STD UNIT) ROBERTS CREEK (STD UNIT NO 2) ADAMS CREEK (RF STD UNIT) HATCHERY CREEK (RIGHT FORK) JOHNSON CREEK (RF STD UNIT) HATCHERY CREEK (MAIN STEM) HATCHERY CREEK (LEFT FORK)	0.8 1.8 0.7 0.1 0.8 0.5 0.1				

STANDARD SPAWNING SURVEYS FOR CHUM SALMON IN OREGON COASTAL RIVER BASINS FOR THE 1996-97 SURVEY SEASON.

RIVER BASIN OR SUBBASIN	STREAM SEGMENT	MILES
	TILLAMOOK FISHERY MANAGEMENT DISTRIC	т [`]
MIAMI RIVER	MIAMI RIVER MOSS CREEK PROUTY CREEK	0.5 0.5 0.4
KILCHIS RIVER	KILCHIS RIVER COAL CREEK CLEAR CREEK	1.0 0.5 0.6
WILSON	LITTLE NORTH FORK, WILSON RIVER	0.5
NESTUCCA	CLEAR CREEK	0.8

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NORTH COAST DISTRICT RANDOM SPAWNING SURVEYS FOR 1996

			SURVEY	SEG-	SURVEY	
BASIN NAME	SUBBASIN NAME	SURVEY NAME	<u>NUMBER</u>	<u>MENT</u>	<u>LENGTH</u>	<u>PRIORITY</u>
NECANICUM RIVER	MAIN STEM	BERGSVIK CR	26242.00	1	1.14	1
NECANICUM RIVER	MAIN STEM	LITTLE HUMBUG CR	26232.00	2	1.16	2
NECANICUM RIVER	MAIN STEM	LITTLE HUMBUG CR	26232.00	1	0.45	3
ARCH CAPE CREEK	MAIN STEM	ARCH CAPE CR	26163.00	1	0.81	4
NECANICUM RIVER	MAIN STEM	BERGSVIK CR	26240.00	1	1.06	5
NECANICUM RIVER	MAIN STEM	JOE CR	26239.00	1	1.11	6
NECANICUM RIVER	SOUTH FORK	NECANICUM R, S FK	26222.00	1	1.26	7
NEHALEM RIVER	MAIN STEM	CROOKED CR	26081.00	3	1.06	8
NEHALEM RIVER	MAIN STEM	CROOKED CR	26081.00	2	1.20	10
NEHALEM RIVER	NORTH FORK	SWEET HOME CR	25876.00	3	0.48	· 11
NEHALEM RIVER	NORTH FORK	NEHALEM R, N. FK.	25881.00	3	0.64	12
NEHALEM RIVER	MAIN STEM	WOLF CR	26141.00	1	1.09	13
NEHALEM RIVER	MAIN STEM	BUSTER CR	26001.00	2	0.61	15
NEHALEM RIVER	NORTH FORK	SWEETHOME CR	25876.60	2	0.34	16
NEHALEM RIVER	MAIN STEM	BENEKE CR	26016.00	2	1.15	17
NEHALEM RIVER	MAIN STEM	NEHALEM R, E FK	26089.00	1	1.23	18
NEHALEM RIVER	MAIN STEM	DELL CR	26126.00	1	1.00	19
NEHALEM RIVER	NORTH FORK	GODS VALLEY CR	25872.00	1	1.00	ົ 20
NEHALEM RIVER	MAIN STEM	HUMBUG CR	25975.00	2	0.62	21
NEHALEM RIVER	ROCK CREEK	ROCK CR	26107.00	2	1.08	22
NEHALEM RIVER	MAIN STEM	NORTHRUP CR	26033.50	2	1.29	23
NEHALEM RIVER	MAIN STEM	COAL CR	26124.00	2	1.21	24
NEHALEM RIVER	NORTH FORK	NEHALEM R, N FK	25879.00	1	1.25	25
NEHALEM RIVER	MAIN STEM	GEORGE CR	25993.00	1	0.43	27
NEHALEM RIVER	MAIN STEM	LOUSIGNONT CR	26147.70	5	0.36	28
NEHALEM RIVER	MAIN STEM	LOUSIGNONT CR	26145.00	1	1.19	29
NEHALEM RIVER	MAIN STEM	OAK RANCH CR	26075.00	1	1.01	30
NEHALEM RIVER	MAIN STEM	LOUSIGNONT CR	26147.70	2	1.33	31
NEHALEM RIVER	MAIN STEM	DEEP CR	26043.00	6	1.18	32
NEHALEM RIVER	NORTH FORK	COALCR	25842.00	1	1.59	33
NEHALEM RIVER	NORTH FORK	NEHALEM R, N FK	25881.90	1	1.06	34
NEHALEM RIVER	MAIN STEM	CROOKED CR	26081.00	4	1.01	35
NEHALEM RIVER	MAIN STEM	DEER CR	26067.00	1	1.17	36
NEHALEM RIVER	MAIN STEM	COOK CR	26083.00	1	0.71	37
NEHALEM RIVER	NORTH FORK	NEHALEM R, LITTLE N FK	25880.00	1	1.04	38
NEHALEM RIVER	NORTH FORK	NEHALEM R, N FK	25879.00	2	0.59	39
NEHALEM RIVER	MAIN STEM	FOLEY CR, TRIB S	25893.80	1	0.56	40
NEHALEM RIVER	MAIN STEM	PEBBLE CR	26127.00	1	0.84	41

TILLAMOOK DISTRICT RANDOM SPAWNING SURVEYS FOR 1996

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			SURVEY	SEG-	SURVEY	
BASIN NAME	SUBBASIN NAME	SURVEY NAME	NUMBER	<u>MENT</u>	<u>LENGTH</u>	PRIORITY
NESKOWIN CREEK	MAIN STEM	HAWK CR	25328.00	2	1.26	1
NESKOWIN CREEK	MAIN STEM	SLOAN CR	25343.00	1	0.33	2
SAND LAKE	MAIN STEM	SAND CR	25535.00	2	0.83	3
NESKOWIN CREEK	MAIN STEM	JIM CR	25339.00	1	0.51	4
NESTUCCA RIVER	BEAVER CREEK	E BEAVER CR	25447.00	1	0.11	5
NESTUCCA RIVER	MAIN STEM AND BAY	BEULAH CR	25486.00	1	1.01	- 6 ·
NESTUCCA RIVER	BEAVER CREEK	E BEAVER CR	25451.00	1	1.30	7
NESTUCCA RIVER	BEAVER CREEK	E BEAVER CR	25451.00	3	0.32	. 8
NESTUCCA RIVER	LITTLE NESTUCCA	S. FK LITTLE NESTUCCA	25370.00	3	0.76	9
NESTUCCA RIVER		SOURGRASS CR. TRIB A	25382.50	· 1	0.18	10
NESTUCCA RIVER		SOURGRASS CR	25382.00	1	0.10	10
	MAIN STEM AND BAY	MINA CR	25495.00	1	0.72	13
	MAIN STEM AND BAY	FAST CR	25433.00	2	1 60	15
NESTUCCA DIVED		BELLIAH CB	25474.00	2	1.00	10
NESTUCCA RIVER	LITTLE NESTLOCA		25400.00	2	1.10	10
NESTUCCA RIVER	MAIN STEM AND BAY	LITTLE NESTOCCA R	25365.00	1	1.40	17
NESTOCCA RIVER	MAIN STEW AND BAT		25403.70	1	1.48	19
WILSON RIVER	NORTH FORK		25689.00	1	1.36	21
TRASK RIVER	SOUTHFORK	E FK OF S FK TRASK R	25606.70	1	1.30	22
	MAINSIEM	BEWLEYCR	25559.00	2	0.78	23
WILSON RIVER	MAINSTEM	JORDAN CR	25675.00	3	1.16	24
TILLAMOOK RIVER	MAIN STEM	BEWLEY CR	25559.00	3	0.97	26
TILLAMOOK RIVER	MAIN STEM	KILLAM CR	25561.00	2	1.06	27
TILLAMOOK RIVER	MAIN STEM	BEWLEY CR	25559.00	1	1.30	28
KILCHIS RIVER	MAIN STEM	FRENCH CR	25762.50	1	0.43	30
WILSON RIVER	MAIN STEM	CEDAR CR, N FK	25679.50	1	0.29	31
MIAMI RIVER	MAIN STEM	MIAMI R	25802.00	1	0.76	32
TILLAMOOK RIVER	MAIN STEM	TILLAMOOK R	25572.00	6	0.75	33
TILLAMOOK RIVER	MAIN STEM	KILLAM CR	25561.00	3	1.10	35
TILLAMOOK RIVER	MAIN STEM	MUNSON CR	25569.90	1	0.43	36
MIAMI RIVER	MAIN STEM	ILLINGSWORTH CR	25785.00	1	0.61	37
WILSON RIVER	NORTH FORK	N FK OF W FK OF N FK WILSON	25688.30	1	1.00	38
WILSON RIVER	DEVIL'S LAKE FORK	WILSON R, DEVIL'S LAKE FK	25710.00	1	1.31	39
TRASK RIVER	MAIN STEM	MILL CR	25585.00	2	0.74	40
TILLAMOOK RIVER	MAIN STEM	SIMMONS CR	25565.00	3	1.49	41
MIAMI RIVER	MAIN STEM	MIAMI R	25800.00	1	1.44	42
WILSON RIVER	MAIN STEM	JORDAN CR	25675.00	2	1.10	43
WILSON RIVER	SOUTH FORK	WILSON R, S FK	25705.00	1	1.01	45
TILLAMOOK RIVER	MAIN STEM	FAWCETT CR	25563.00	3	1.25	46
WILSON RIVER	MAIN STEM	JORDAN CR	25675.50	2	1.07	47
TILLAMOOK RIVER	MAIN STEM	TILLAMOOK R	25566.00	1	0.31	48
TRASK RIVER	SOUTH FORK	TRASK R. E FK OF S FK	25610.00	2	1.19	50
TRASK RIVER	SOUTH FORK	EDWARDS CR	25612.00	3	1.03	51
MIAMI RIVER	MAIN STEM	MIAMIR	25798.00	1	1.27	52
MIAMI RIVER	MAIN STEM	WALDRON CR	25791.00	1	0.85	53
KILCHIS RIVER	MAIN STEM	KILCHIS R, N FK	25763.00	2	0.99	54
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TILLAMOOK DISTRICT RANDOM SPAWNING SURVEYS FOR 1996

			SURVEY	SEG-	SURVEY	
BASIN NAME	SUBBASIN NAME	SURVEY NAME	<u>NUMBER</u>	<u>MENT</u>	<u>LENGTH</u>	<u>PRIORITY</u>
KILCHIS RIVER	MAIN STEM	KILCHIS R, N FK	25762.30	1	0.54	55
TILLAMOOK RIVER	MAIN STEM	FAWCETT CR	25563.00	1	1.00	56
WILSON RIVER	MAIN STEM	BEN SMITH CR	25695.00	1	0.42	57
TILLAMOOK RIVER	MAIN STEM	BEWLEY CR	25559.00	5	· 1.12	59
WILSON RIVER	DEVIL'S LAKE FORK	IDIOT CR	25709.00	1	0.80	60
WILSON RIVER	DEVIL'S LAKE FORK	WILSON R, DEVIL'S LAKE FK	25714.00	1	1.20	61
TRASK RIVER	MAIN STEM	GREEN CR	25587.00	1	0.86	63
TILLAMOOK RIVER	MAIN STEM	KILLAM CR	25561.00	4	0.46	64
KILCHIS RIVER	LITTLE SOUTH FORK	SAM DOWNS CR	25742.00	1	0.45	66
WILSON RIVER	MAIN STEM	JORDAN CR	25675.50	5	0.19	67
WILSON RIVER	MAIN STEM	CEDAR CR	25679.00	1	2.80	68
KILCHIS RIVER	MAIN STEM	MYRTLE CR	25725.00	2	0.40	69
WILSON RIVER	MAIN STEM	JORDAN CR	25675.00	1	0.98	71
KILCHIS RIVER	MAIN STEM	COMPANY CR	25760.00	1	1.02	72
MIAMI RIVER	MAIN STEM	MINICH CR	25789.00	1	0.90	73
MIAMI RIVER	MAIN STEM	PROUTY CR	25797.00	2	0.58	74
TILLAMOOK RIVER	MAIN STEM	BEWLEY CR	25559.00	4	1.25	75
KILCHIS RIVER	MAIN STEM	TILTON CR	25753.00	1	0.70	76
TILLAMOOK RIVER	MAIN STEM	MUNSON CR	25569.00	1	1.66	77
WILSON RIVER	MAIN STEM	FOX CR	25669.00	1	1.15	79
TILLAMOOK RIVER	MAIN STEM	SIMMONS CR	25565.00	5	0.68	80
KILCHIS RIVER	MAIN STEM	KILCHIS R, N FK	25762.34	1	1.51	81
WILSON RIVER -	NORTH FORK	WILSON R, N FK	25689.00	2	1.34	82
WILSON RIVER	SOUTH FORK	WILSON RIVER, S FK	25705.00	4	1.00	83
TRASK RIVER	MAIN STEM	SAMSON CR	25601.00	1	0.65	85
TRASK RIVER	SOUTH FORK	TRASK R, S FK	25617.80	1	0.76	86
WILSON RIVER	MAIN STEM	ELK CR	25703.00	1	1.00	87
TILLAMOOK BAY	MAIN STEM AND BAY	DOUNTY CR	25772.00	2	0.47	88
TILLAMOOK RIVER	MAIN STEM	SIMMONS CR	25565.00	2	0.60	89
TILLAMOOK RIVER	MAIN STEM	SIMMONS CR	25565.00	1	0.64	89
TILLAMOOK RIVER	MAIN STEM	FAWCETT CR	25563.00	2	0.75	91

LINCOLN DISTRICT RANDOM SPAWNING SURVEYS FOR 1996

SURVEY SEG- SURVEY NUMBER MENT LENGTH PRIORITY BASIN NAME SUBBASIN NAME SURVEY NAME SPENCER CREEK MAINSTEM.NFK.SFK SPENCER CR. S FK 25061.00 1 1.13 1 SALMON CR 25073.00 2 0.99 2 FOGARTY CREEK MAINSTEM 25264.00 1.29 3 ROCK CR 1 DEVIL'S LAKE MAIN STEM 24924.00 4 0.96 5 BEAVER CREEK NORTH FORK BEAVER CR, N FK BEAVER CR, S FK 0.69 6 BEAVER CREEK SOUTH FORK 24913.00 1 SALMON RIVER MAIN STEM AND BAY BEAR CR 25296.00 2 1.40 7 25299.70 SALMON RIVER MAIN STEM AND BAY TROUT CR 1 1.00 8 MAIN STEM AND BAY SLICK ROCK CR 25300.00 2 1.05 9 SALMON RIVER MAIN STEM AND BAY BEAR CR 25296.00 3 1.10 10 SALMON RIVER 1.00 **YAQUINA RIVER** ELK CREEK SAVAGE CR 24971.00 1 11 YAQUINA RIVER ELK CREEK DEER CR 24963.30 1 0.19 12 1.38 24960.00 2 13 YAQUINA RIVER ELK CREEK BEAVER CR MAIN STEM AND BAY BALES CR 25033.00 1 0.45 14 YAQUINA RIVER 25022.00 YAQUINA RIVER LITTLE ELK CREEK SALMON CR 2 0.54 15 MAIN STEM AND BAY SPILDE CR YAQUINA RIVER 25045.70 1 1.05 16 LITTLE ELK CREEK SALMON CR 25022.00 1 0.60 17 YAQUINA RIVER 24978.00 1 0.46 PETERSON CR 18 YAQUINA RIVER ELK CREEK SILETZ RIVER DRIFT CREEK SMITH CR 25244.00 3 1.16 19 SILETZ RIVER MAIN STEM JAYBIRD CR 25101.00 4 0.67 20 SILETZ RIVER DRIFT CREEK SMITH CR 25244.00 2 1.00 21 SILETZ RIVER MAIN STEM OJALLA CR 25111.00 1 1.13 22 25150.00 2 1.02 MILL CR, S FK 23 SILETZ RIVER MAIN STEM WHISKEY CR 25170.00 1 0.87 24 SILETZ RIVER MAIN STEM SILETZ RIVER DRIFT CREEK SAMPSON CR, UNNAMED TRIB 25241.00 1 1.32 25 SILETZ RIVER DRIFT CREEK ANDERSON CR 25232.00 2 0.86 26 SILETZ RIVER DRIFT CREEK SMITH CR 25244.00 1 1.16 27 STEMPLE CR 25091.00 1 0.90 28 SILETZ RIVER MAIN STEM SILETZ RIVER MAIN STEM JAYBIRD CR 25101.00 2 1.41 29 ALSEA RIVER FIVE RIVERS CHERRY CR 24754.00 1 0.76 30 BEAR CR 24708.00 1 1.14 ALSEA RIVER **FIVE RIVERS** 31 1.05 PREACHER CR 24733.00 1 32 ALSEA RIVER **FIVE RIVERS** 2 ALSEA RIVER NORTH FORK CROOKED CR 24848.00 0.44 33 ALSEA RIVER **FIVE RIVERS** LOBSTER CR, S FK 24745.00 2 1.76 34 ALSEA RIVER FIVE RIVERS GREEN R 24772.00 1 0.60 35 ALSEA RIVER MAIN STEM AND BAY BEAR CR 24670.00 1 0.92 36 2 0.91 ALSEA RIVER CRAB CR 24766.00 37 **FIVE RIVERS** 24887.00 2 1.18 ALSEA RIVER SOUTH FORK TOBE CR 38 ALSEA RIVER FIVE RIVERS CRAB CR 24766.00 1 0.94 39 MAIN STEM AND BAY RED CR 24672.00 1 0.37 40 ALSEA RIVER FIVE RIVERS LOBSTER CR. E FK 24746.00 3 0.69 41 ALSEA RIVER 24745.00 4 0.34 42 **FIVE RIVERS** S FK LOBSTER ALSEA RIVER 24845.30 2 0.88 43 ALSEA RIVER NORTH FORK SEELEY CR PHILLIPS CR 24719.00 1 0.90 44 ALSEA RIVER FIVE RIVERS FIVE RIVERS CROOKED CR 24716.00 1 0.75 45 ALSEA RIVER

SIUSLAW DISTRICT RANDOM SPAWNING SURVEYS FOR 1996

			SURVEY	SEG-	SURVEY	
BASIN NAME	SUBBASIN NAME	SURVEY NAME	NUMBER	MENT	LENGTH	<u>PRIORITY</u>
YACHATS RIVER	MAIN STEM	STUMP CR, TRIB A	24591.30	1	1.00	1
YACHATS RIVER	MAIN STEM	BEND CR	24567.00	1	1.10	· 2
YACHATS RIVER	MAIN STEM	BEAMER CR	24563.00	1	0.80	3
YACHATS RIVER	MAIN STEM	YACHATS R	24592.00	2	0.86	4
CAPE CREEK	MAIN STEM	CAPE CR	24500.00	2	1.40	6
TENMILE CREEK	MAIN STEM	TENMILE CR	24528.00	5	1.04	. 7
BIG CREEK	MAIN STEM & SFK	FRYINGPAN CR	24511.00	1	0.58	8
CUMMINS CR	MAIN STEM	CUMMINS CR	24544.00	2	1.23	9
CUMMINS CR	MAIN STEM	CUMMINS CR	24544.00	1	1.44	10
SUTTON CREEK	SUTTON LAKE	RATH CR	24477.00	1	0.80	11
SIUSLAW RIVER	NORTH FORK	MCLEOD CR	24025.00	4	1.00	12
SIUSLAW RIVER	NORTH FORK	CONDON CR	24019.00	1	0.59	14
SIUSLAW RIVER	NORTH FORK	MCLEOD CR	24025.00	1	0.97	16
SIUSLAW RIVER	MAIN STEM	WILDCAT CR	24273.00	1	0.99	17
SIUSLAW RIVER	LAKE CREEK	ROCK CR	24170.00	1	0.87	18
SIUSLAW RIVER	LAKE CREEK	LAMB CR	24205.00	1	0.81	19
SIUSLAW RIVER	WOLF CREEK	SWAMP CR	24334.00	1	1.20	20
SIUSLAW RIVER	LAKE CREEK	MISERY CR	24159.00	2	0.54	21
SIUSLAW RIVER	MAIN STEM	ROCK CR	24255.00	1	1.01	22
SIUSLAW RIVER	LAKE CREEK	GREEN CR	24151.00	3	1.06	23
SIUSLAW RIVER	MAIN STEM	LETZ CR	24439.00	2	0.89	24
SIUSLAW RIVER	LAKE CREEK	DEADWOOD CR	24171.00	1	1.04	25
SIUSLAW RIVER-	MAIN STEM	SAN ANTONE CR	24249.00	1	0.80	26
SIUSLAW RIVER	NORTH FORK	MCLEOD CR	24025.00	5		27
SIUSLAW RIVER	MAIN STEM	KLINE CR	24354.00	1	1.00	28
SIUSLAW RIVER	MAIN STEM	MEADOW CR	24253.00	1	0.67	29
SIUSLAW RIVER	WOLF CREEK	WOLF CR	24345.00	1	0.96	30
SIUSLAW RIVER	WOLF CREEK	SWAMP CR	24334.00	2	1.25	32
SIUSLAW RIVER	MAIN STEM	PUGHCR	24363.20	2	0.88	. 33
SIUSLAW RIVER	LAKE CREEK	FISH CR, N FK	24208.40	1	0.74	34
SIUSLAW RIVER	LAKE CREEK	BOYLE CR	24154.00	1	0.76	35
SIUSLAW RIVER	WOLF CREEK	WOLF CR	24343.00	1	0.80	36
SIUSLAW RIVER	MAIN STEM	HOFFMAN CR	24052.00	1	1.14	37
SIUSLAW RIVER	LAKE CREEK	HULA CR	24185.00	1	1.01	38
SIUSLAW RIVER	LAKE CREEK	FISH CR, N FK	24208.00	1	0.68	39
SIUSLAW RIVER	MAIN STEM	HADSALL CR	24084.00	2	1.42	40
SIUSLAW RIVER	MAIN STEM	DOE CR	24423.00	1	1.54	41

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UMPQUA DISTRICT RANDOM SPAWNING SURVEYS FOR 1996

BASIN NAME	SUBBASIN NAME	SURVEY NAME	SURVEY NUMBER	SEG- <u>MENT</u>	SURVEY <u>LENGTH</u>	PRIORITY
UMPQUA RIVER	MAIN STEM AND BAY	HEDDIN CR	22820.00	2	1.28	1
UMPQUA RIVER	MAIN STEM AND BAY	MEHL CR	22824.00	1	1.03	2
UMPQUA RIVER	MAIN STEM AND BAY	LUTSINGER CR	22688.00	1 -	1.22	3
UMPQUA RIVER	MAIN STEM AND BAY	HUBBARD CR	22870.00	2	1.11	4
UMPQUA RIVER	MAIN STEM AND BAY	MEHL CR	22824.00	5	1.00	5
UMPQUA RIVER	MAIN STEM AND BAY	BUTLER CR	22690.00	1	0.90	6
UMPQUA RIVER	ELK CREEK	PARKER CR	22729.00	1	1.26	9
UMPQUA RIVER	CALAPOOYA CREEK	CALAPOOYA CR, S FK	22971.00	1	1.02	10
UMPQUA RIVER	ELK CREEK	THISTLEBURN CR	22716.00	1	1.30	11
UMPQUA RIVER	SOUTH UMPQUA	LEE CR	23124.00	1	1.03	13
UMPQUA RIVER	SOUTH UMPQUA	RICE CR	23063.00	1	0.70	16
UMPQUA RIVER	SOUTH UMPQUA	CANYON CR, W FK	23392.00	2	0.64	17
UMPQUA RIVER	SOUTH UMPQUA	BYRON CR, N FK	23030.00	1	0.39	18
UMPQUA RIVER	SOUTH UMPQUA	O-SHEA CR	23405.00	2	0.78	21
UMPQUA RIVER	SOUTH UMPQUA	CATTLE CR	23178.00	1	0.88	22
UMPQUA RIVER	SOUTH UMPQUA	CATCHING CR	23146.00	1	1.01	23
UMPQUA RIVER	SOUTH UMPQUA	CHINA CR	23149.00	1	0.25	24
UMPQUA RIVER	SOUTH UMPQUA	QUINES CR	23316.00	1	1.20	25
UMPQUA RIVER	SOUTH UMPQUA	WILDCAT CR	23326.00	1	0.28	26
UMPQUA RIVER	SOUTH UMPQUA	DOE CR	23166.00	1	1.08	28
UMPQUA RIVER	SOUTH UMPQUA	MIDDLE CR	23244.00	1	1.25	29
UMPQUA RIVER	SOUTH UMPQUA	LUNSBURY CR	23294.00	1	0.45	30
UMPQUA RIVER -	SOUTH UMPQUA	COUNCIL CR	23148.00	1	0.78	31
UMPQUA RIVER	SOUTH UMPQUA	STARVEOUT CR	23333.50	2	0.99	32
UMPQUA RIVER	SOUTH UMPQUA	ASH CR	23138.00	2	0.20	33 -
UMPQUA RIVER	SMITH RIVER	SMITH R, LITTLE S FK	22584.00	2	1.00	34
UMPQUA RIVER	SMITH RIVER	SCARE CR	22509.00	3	0.69	35
UMPQUA RIVER	SMITH RIVER	SPENCER CR	22485.00	2	1.42	36
UMPQUA RIVER	SMITH RIVER	MOORE CR	22502.70	2	1.30	37
UMPQUA RIVER	SMITH RIVER	RUSSEL CR	22525.00	1	0.76	38
UMPQUA RIVER	SMITH RIVER	CLEGHORN CR	22559.00	1	1.23	39
UMPQUA RIVER	SMITH RIVER	BLACKWELL CR	22511.00	1	0.80	40
UMPQUA RIVER	SMITH RIVER	JOHNSON CR	22495.00	1	1.02	41
UMPQUA RIVER	SMITH RIVER	PANTHER CR	22577.00	1	1.33	42
UMPQUA RIVER	SMITH RIVER	BEAVER CR	22504.00	2	1.50	. 44
UMPQUA RIVER	SMITH RIVER	CLEGHORN CR	22563.00	1	0.75	45
UMPQUA RIVER	SMITH RIVER	CARPENTER CR	22515.00	1	1.10	46
UMPQUA RIVER	SOUTH UMPQUA	STOUTS CR, E FK	23474.00	1	0.46	47
UMPQUA RIVER	SOUTH UMPQUA	LOUIS CR	23087.00	4	1.01	49
UMPQUA RIVER	SOUTH UMPQUA	S MYRTLE CR	23098.00	2	0.97	50
UMPQUA RIVER	SOUTH UMPQUA	CANYON CR, W FK	23392.00	1	1.03	51

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COOS/COQUILLE DISTRICT RANDOM SPAWNING SURVEYS FOR 1996

			SURVEY	SEG-	SURVEY	
BASIN NAME	SUBBASIN NAME	SURVEY NAME	NUMBER	MENT	LENGTH	<u>PRIORITY</u>
COOS RIVER	MAIN STEM	WILSON CR, TRIB D	22141.30	1	0.53	2
COOS RIVER	MILLICOMA RIVER	DETON CR	22235.00	1	1.06	3
COOS RIVER	SOUTH FORK	SHOTGUN CR	22187.00	1	0.84	4
COOS RIVER	MILLICOMA RIVER	MARLOW CR	22242.00	2	1. 12	5
COOS RIVER	MILLICOMA RIVER	PANTHER CR	22301.00	1	0.77	6
COOS RIVER	SOUTH FORK	DANIELS CR	22158.00	2	0.80	7
COOS RIVER	SOUTH FORK	TIOGA CR	22194.00	1	0.94	8
COOS RIVER	MAIN STEM	DAVIS CR	22121.00	. 1	1.45	10
COOS RIVER	SOUTH FORK	CEDAR CR, TRIB F	22211.00	1	0.94	11
COOS RIVER	SOUTH FORK	TIOGA CR	22188.00	1	1.40	12
COOS RIVER	MILLICOMA RIVER	MILLICOMA R, W FK	22296.00	1	0.89	13
COOS RIVER	MILLICOMA RIVER	ELKCR	22297.60	3	0.98	14
COOS RIVER	SOUTH FORK	EIGHT R CR	22196.50	1	0.32	15
COOS RIVER	MILLICOMA RIVER	DETON CR	22235.00	2	0.75	16
COOS RIVER	MAIN STEM	LARSON CR	22320.00	з	0.71	17
COOS RIVER	SOUTH FORK	LAKE CR	22207.00	1	1.26	18
COOS RIVER	MILLICOMA RIVER	MILLICOM R. W FK	22300.00	1	0.74	19
COOS RIVER	SOUTH FORK	LOST CR	22227.00	4	1.02	20
COOS RIVER	SOUTH FORK	BEAVER SLIDE CR	22196.40	1	0.77	21
COOS RIVER	SOUTH FORK	TIOGA CR	22196.80	1	1.28	22
COOS RIVER	MILLICOMA RIVER	BUCK CR	22287.00	1	0.38	24
COOS RIVER	SOUTH FORK	SHOTGUN CR	22187.00	2	0.81	25
COQUILLE RIVER	NORTH FORK	MIDDLE CR	22014.00	1 .	1.03	27
COQUILLE RIVER	NORTH FORK	COQUILLE R, N FK	22051.00	3	1.04	28
COQUILLE RIVER	SOUTH FORK	WARNER CR	21825.00	1	0.36	29
COQUILLE RIVER	MAIN STEM AND BAY	MACK CR	21617.00	1	0.98	30
COQUILLE RIVER	NORTH FORK	MIDDLE CR	22018.00	2	1.18	31
COQUILLE RIVER	SOUTH FORK	WARD CR	21704.00	1	0.36	32
COQUILLE RIVER	NORTH FORK	COQUILLE R. N FK	22047.00	· 2	1.14	33
COQUILLE RIVER	NORTH FORK	MOON CR	22038.00	3	0.24	34
COQUILLE RIVER	NORTH FORK	ALDER CR	22015.00	1	0.50	35
COQUILLE RIVER	NORTH FORK	COQUILLE R. N FK	22045.00	1	0.50	36
COQUILLE RIVER	NORTH FORK	MOON CR	22037.50	3	0.70	38
COQUILLE RIVER	NORTH FORK	COQUILLE R. N FK	22047.00	1	1.20	39
COQUILLE RIVER	MIDDLE FORK	ROCK CR	21755.00	1	0.09	40
COQUILLE RIVER	NORTH FORK	HONCHO CR	22020.00	1	0.81	42
COQUILLE RIVER	MIDDLE FORK	AXE CR	21743.00	1	1.10	43
COQUILLE RIVER	NORTH FORK	MOON CR. TRIB A	22037.80	1	0.92	45
COQUILLE RIVER	MIDDLE FORK	KING CR	21736.00	2	0.53	46
COQUILLE RIVER	EAST FORK	WEEKLY CR	21949.00	2	0.97	47
COQUILLE RIVER	MAIN STEM AND BAY	CAWFIELD CR. TRIBA	21654.00	1		48
COQUILLE RIVER	NORTH FORK	MIDDLE CR	22006.00	1	1.13	49
	EAST FORK	STEEL CR	21957.00	3	1.02	50
COQUILLE RIVER	EAST FORK	HANTZ CR	21955.00	1	0.99	54
COQUILLE RIVER	MIDDLE FORK	MYRTLE CR	21758.00	1	1.22	55

COOS/COQUILLE DISTRICT RANDOM SPAWNING SURVEYS FOR 1996

		SURVEY	SEG-	SURVEY	
SUBBASIN NAME	SURVEY NAME	<u>NUMBER</u>	<u>MENT</u>	LENGTH P	RIORITY
MAIN STEM AND BAY	HATCHET SL, TRIB A	21633.00	1	0.95	56
NORTH FORK	CHERRY CR, S FK	22004.00	1	0.10	57
SOUTH FORK	GETTYS CR	21712.00	1	0.74	58
NORTH FORK	MOON CR., TRIB A	22037.60	1	0.06	59
MIDDLE FORK	SLATER CR	21782.00	1	0.50	61
SOUTH FORK	SALMON CR	21851.00	2	1. 15	62
NORTH FORK	MIDDLE CR	22018.00	1	1.03	63
NORTH FORK	COQUILLE R, N FK	22041.00	1	0.77	64
	SUBBASIN NAME MAIN STEM AND BAY NORTH FORK SOUTH FORK MIDDLE FORK SOUTH FORK NORTH FORK NORTH FORK NORTH FORK	SUBBASIN NAMESURVEY NAMEMAIN STEM AND BAYHATCHET SL, TRIB ANORTH FORKCHERRY CR, S FKSOUTH FORKGETTYS CRNORTH FORKMOON CR., TRIB AMIDDLE FORKSLATER CRSOUTH FORKSALMON CRNORTH FORKMIDDLE CRNORTH FORKCOQUILLE R, N FK	SUBBASIN NAMESURVEY NAMESURVEY NUMBERMAIN STEM AND BAYHATCHET SL, TRIB A21633.00NORTH FORKCHERRY CR, S FK22004.00SOUTH FORKGETTYS CR21712.00NORTH FORKGETTYS CR21712.00NORTH FORKSLATER CR21782.00SOUTH FORKSALMON CR21851.00NORTH FORKMIDDLE CR22018.00NORTH FORKCOQUILLE R, N FK22041.00	SUBBASIN NAMESURVEY NAMESURVEYSEG- NUMBERMAIN STEM AND BAYHATCHET SL, TRIB A21633.001NORTH FORKCHERRY CR, S FK22004.001SOUTH FORKGETTYS CR21712.001NORTH FORKGETTYS CR21712.001NORTH FORKSLATER CR21782.001SOUTH FORKSLATER CR21782.001SOUTH FORKSALMON CR21851.002NORTH FORKMIDDLE CR22018.001NORTH FORKCOQUILLE R, N FK22041.001	SUBBASIN NAMESURVEY NAMESURVEY NUMBERSEG- MENTSURVEY LENGTHPMAIN STEM AND BAY NORTH FORKHATCHET SL, TRIB A21633.0010.95NORTH FORKCHERRY CR, S FK22004.0010.10SOUTH FORKGETTYS CR21712.0010.74NORTH FORKMOON CR., TRIB A22037.6010.06MIDDLE FORKSLATER CR21782.0010.50SOUTH FORKSALMON CR21851.0021.15NORTH FORKMIDDLE CR22018.0011.03NORTH FORKCOQUILLE R, N FK22041.0010.77



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