

**LINCOLN SOIL & WATER
CONSERVATION DISTRICT**

MID COAST

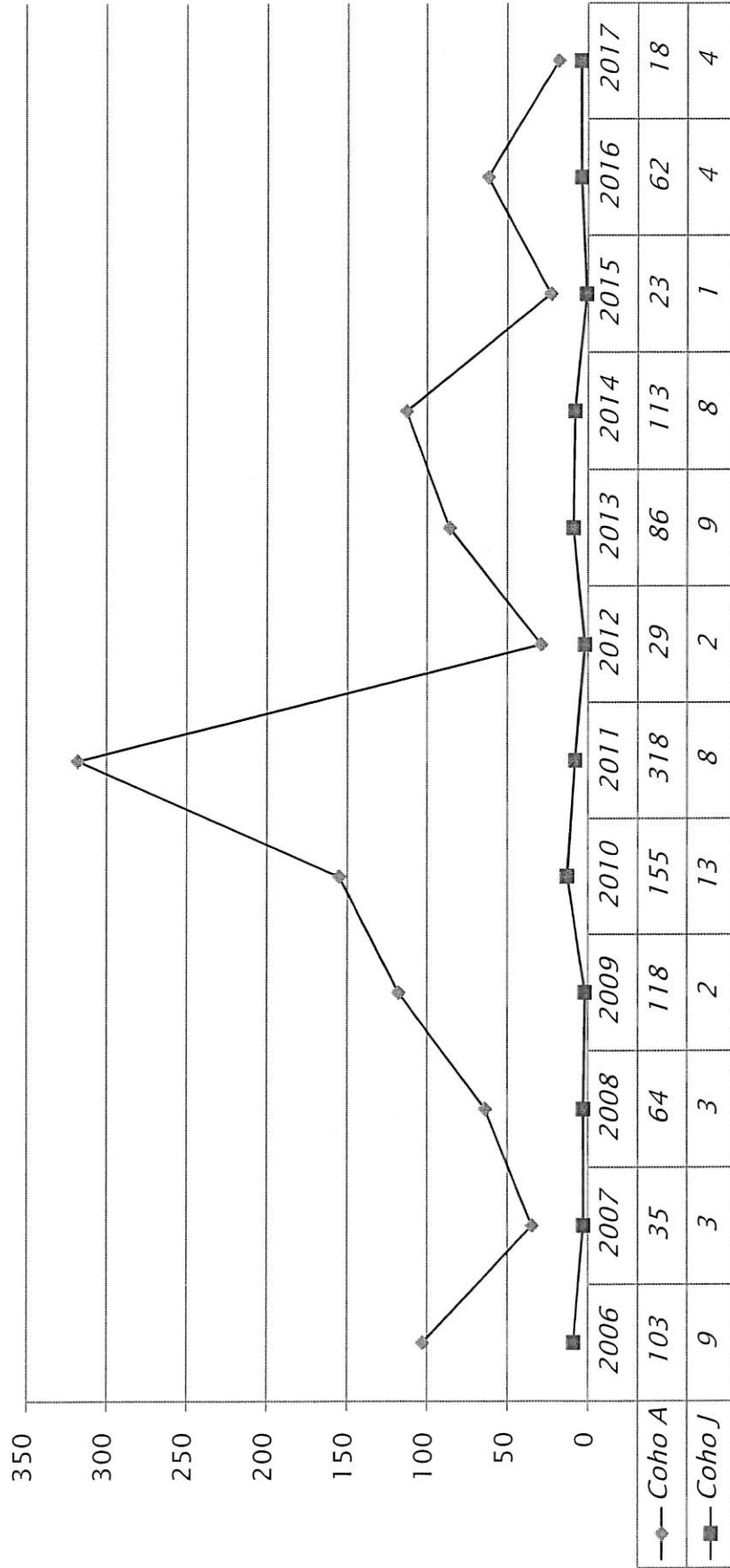
COHO & CHINOOK

SPAWNING SURVEYS

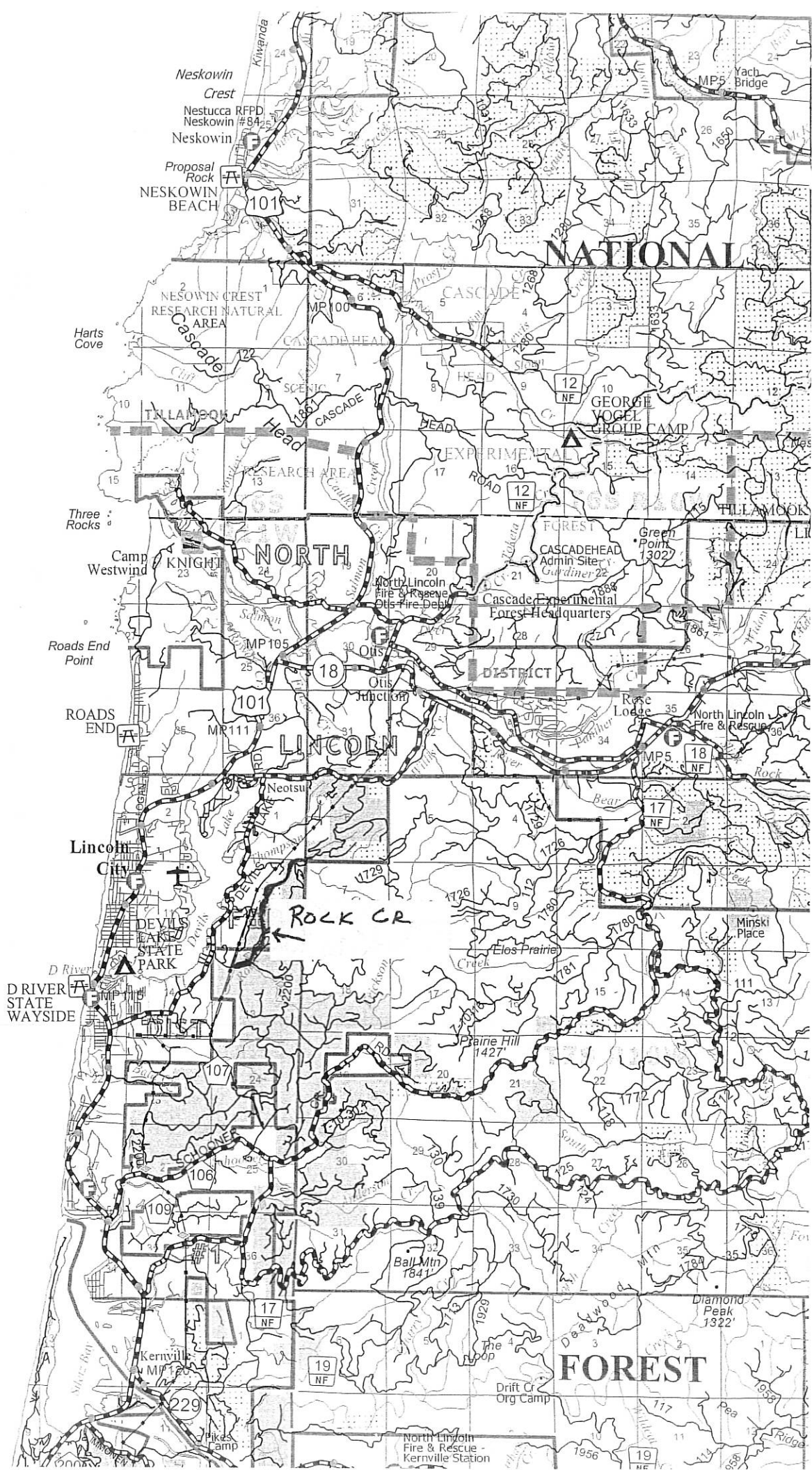
1999 THRU 2017

Lincoln Soil Water Conservation District
 Survey Results 2006 to 2017

Rock Cr Devils Lake Peak Count

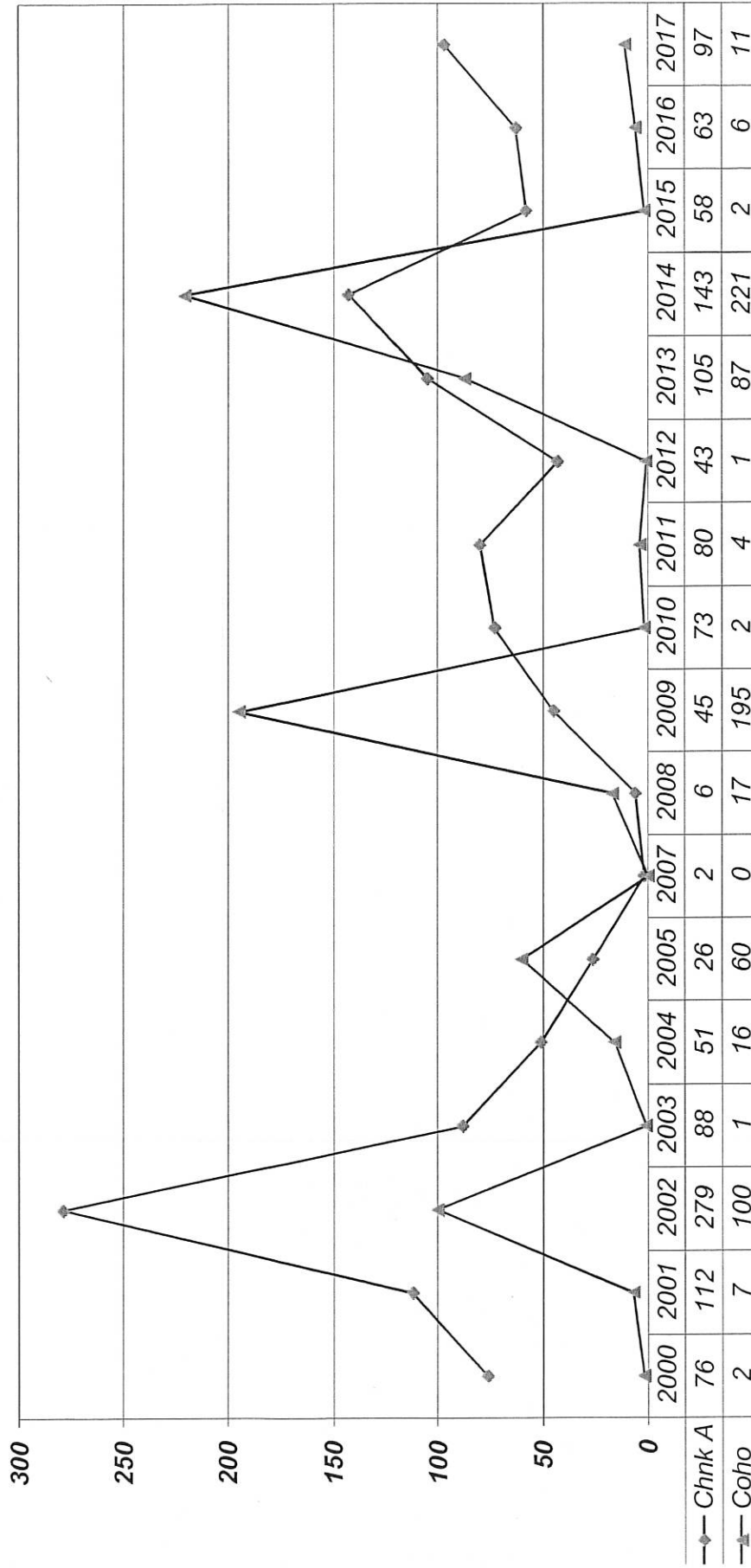


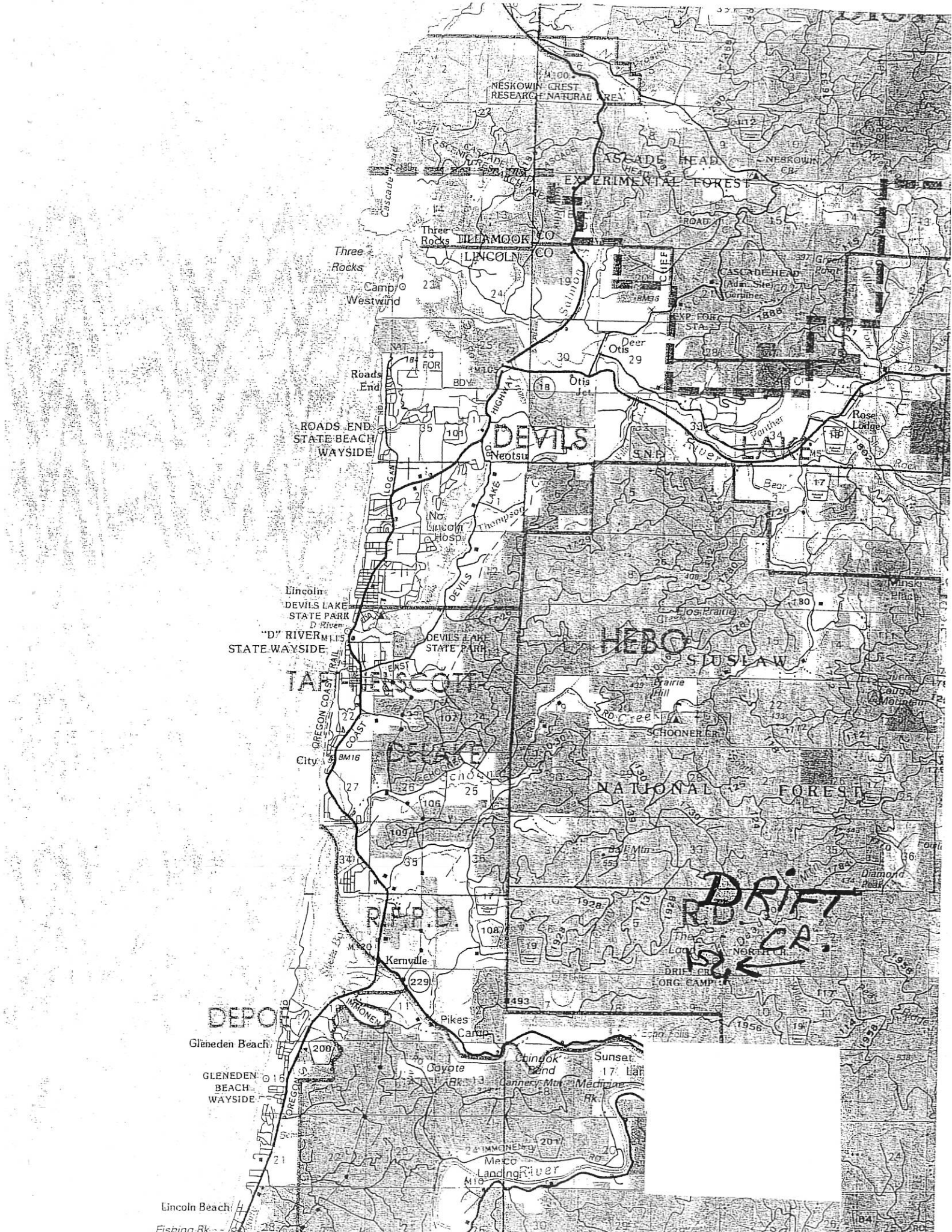
PACIFIC



Lincoln Soil and Water Conservation District
 Survey Results 2000-2017

Drift Cr. Siletz Peak Counts





MESKOWIN CREST RESEARCH NATURAL RES.

CASCADE HEAD EXPERIMENTAL FOREST

Three Rocks Camp Westwind

ROADS END STATE BEACH WAYSIDE

DEVILS LAKE

HEBO

"D" RIVER STATE WAYSIDE

TAF HENSCOTT

NATIONAL FOREST

RAVINE

DRIFT CR. ←

DEPO

Gleneden Beach

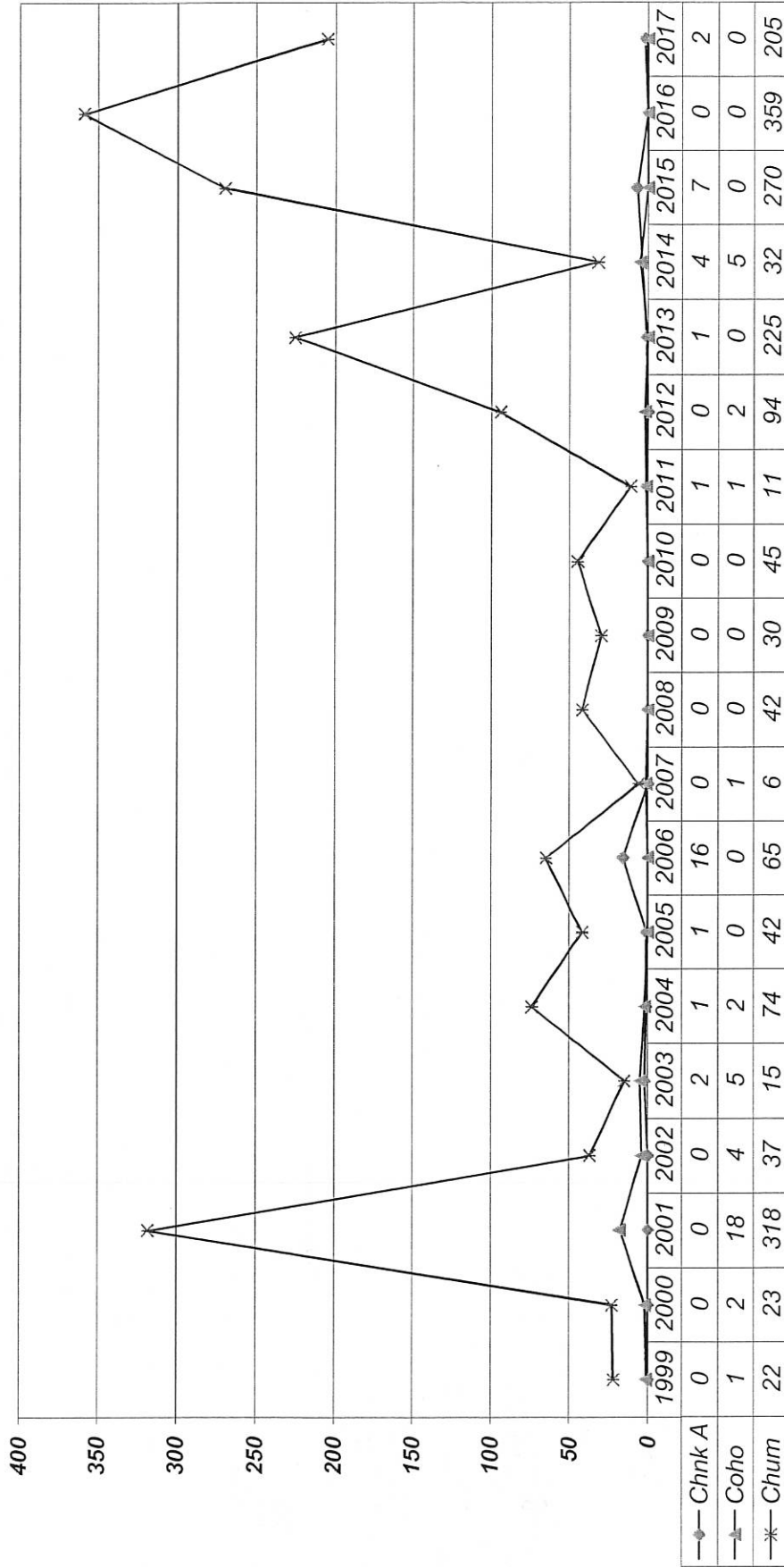
GLENEDEN BEACH WAYSIDE

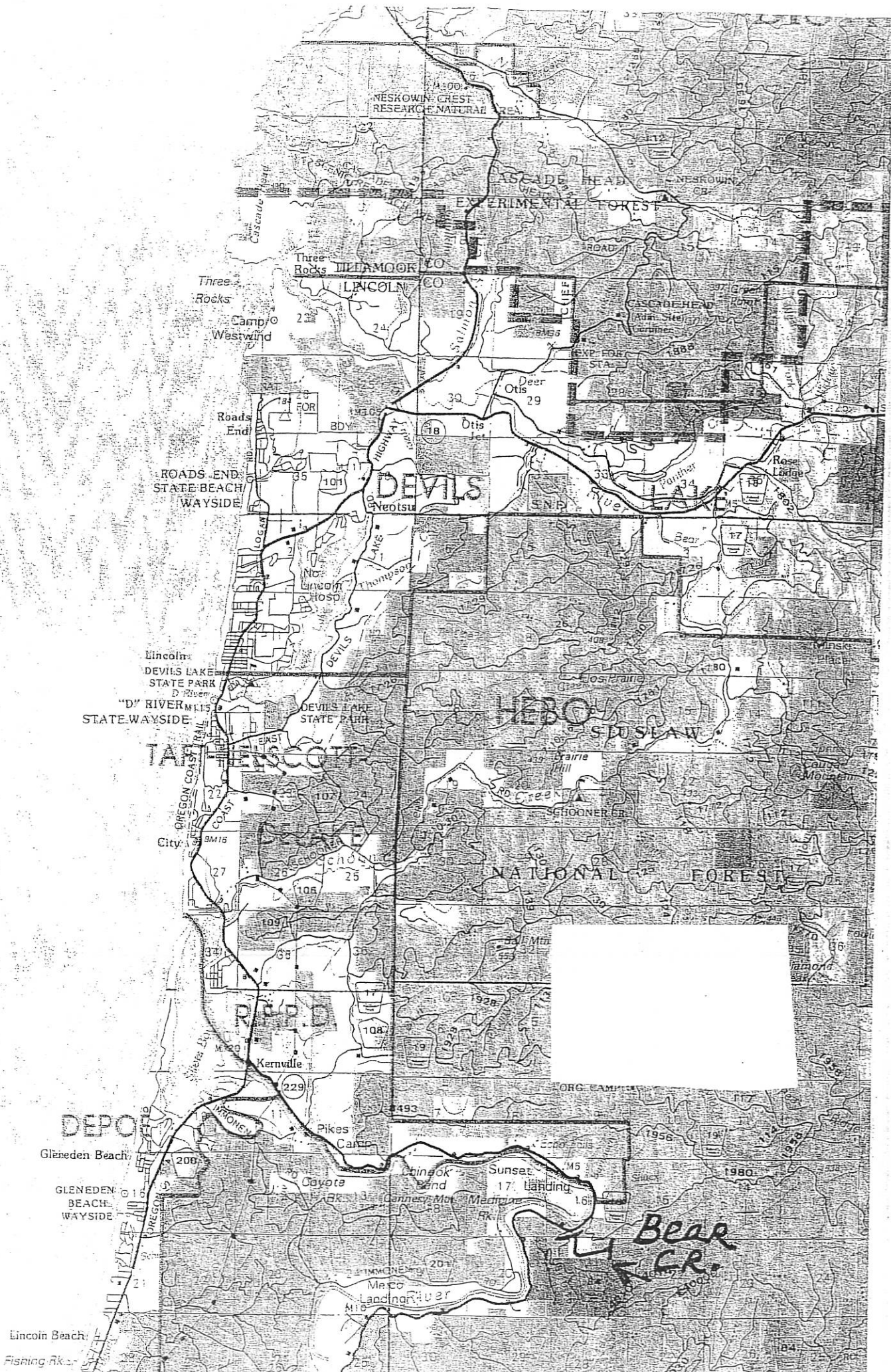
Lincoln Beach

Fishing Rk.

Lincoln Soil and Water Conservation District Survey Results 1999-2017

Bear Cr. Siletz Total Count

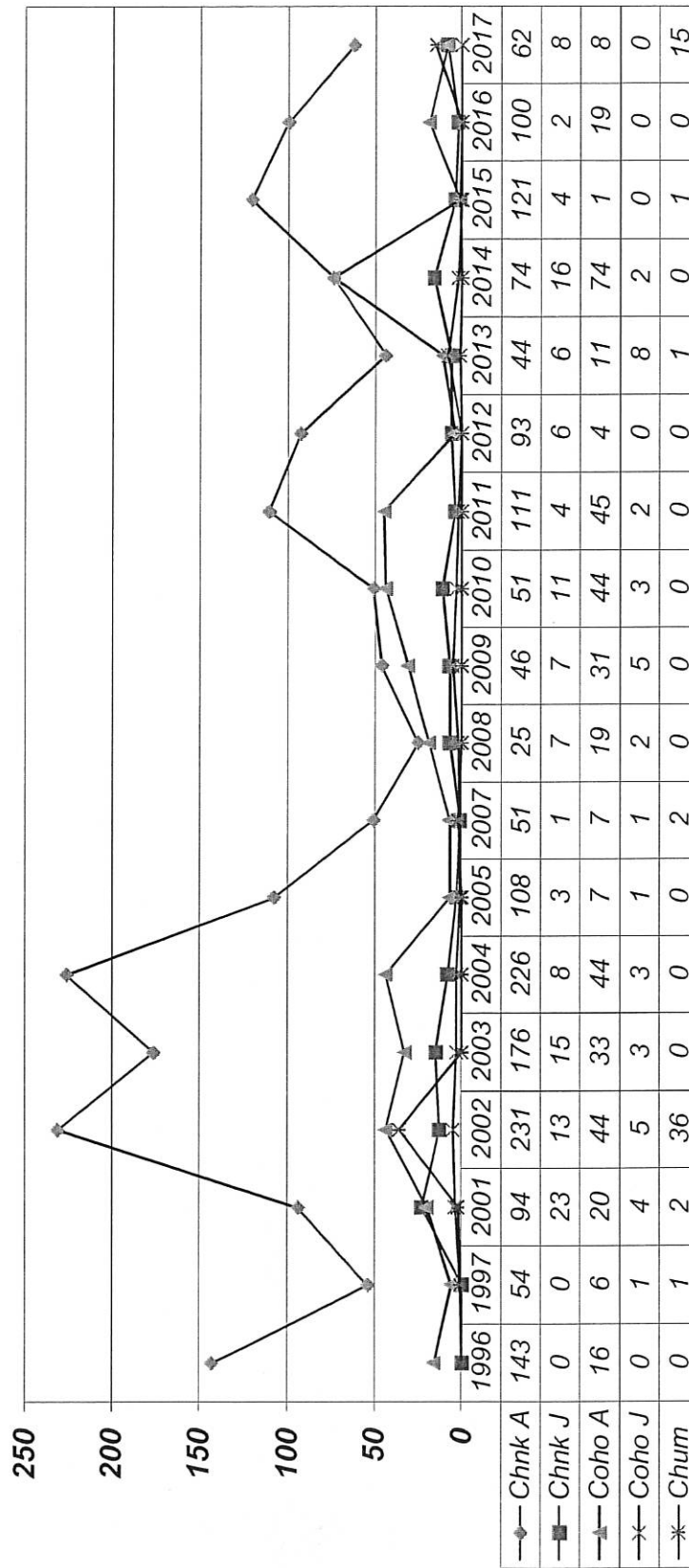


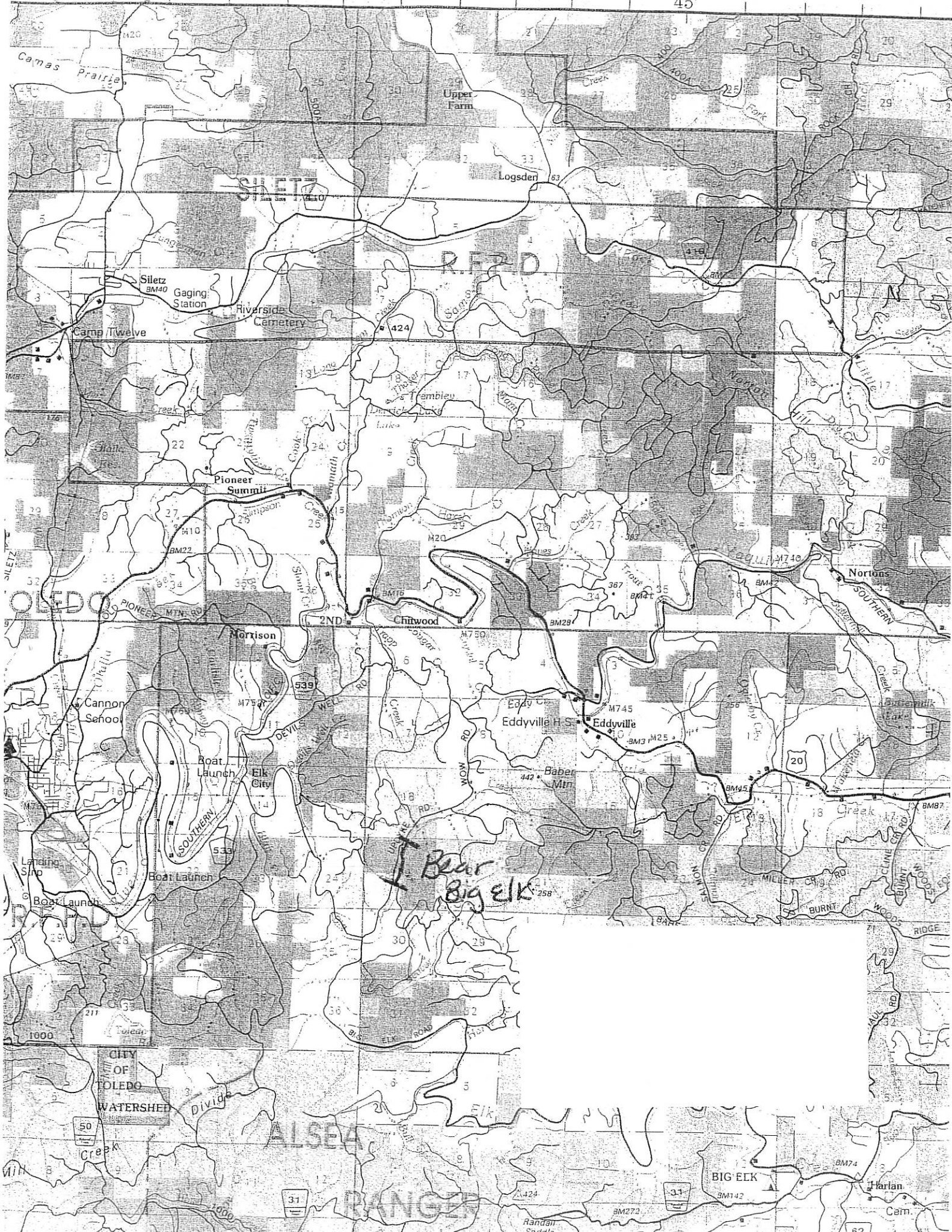


Bear Cr.

Lincoln Soil and Water Conservation District
 Survey Results 1996-2017

Bear Big Elk Peak Count





*Bear
Big Elk*

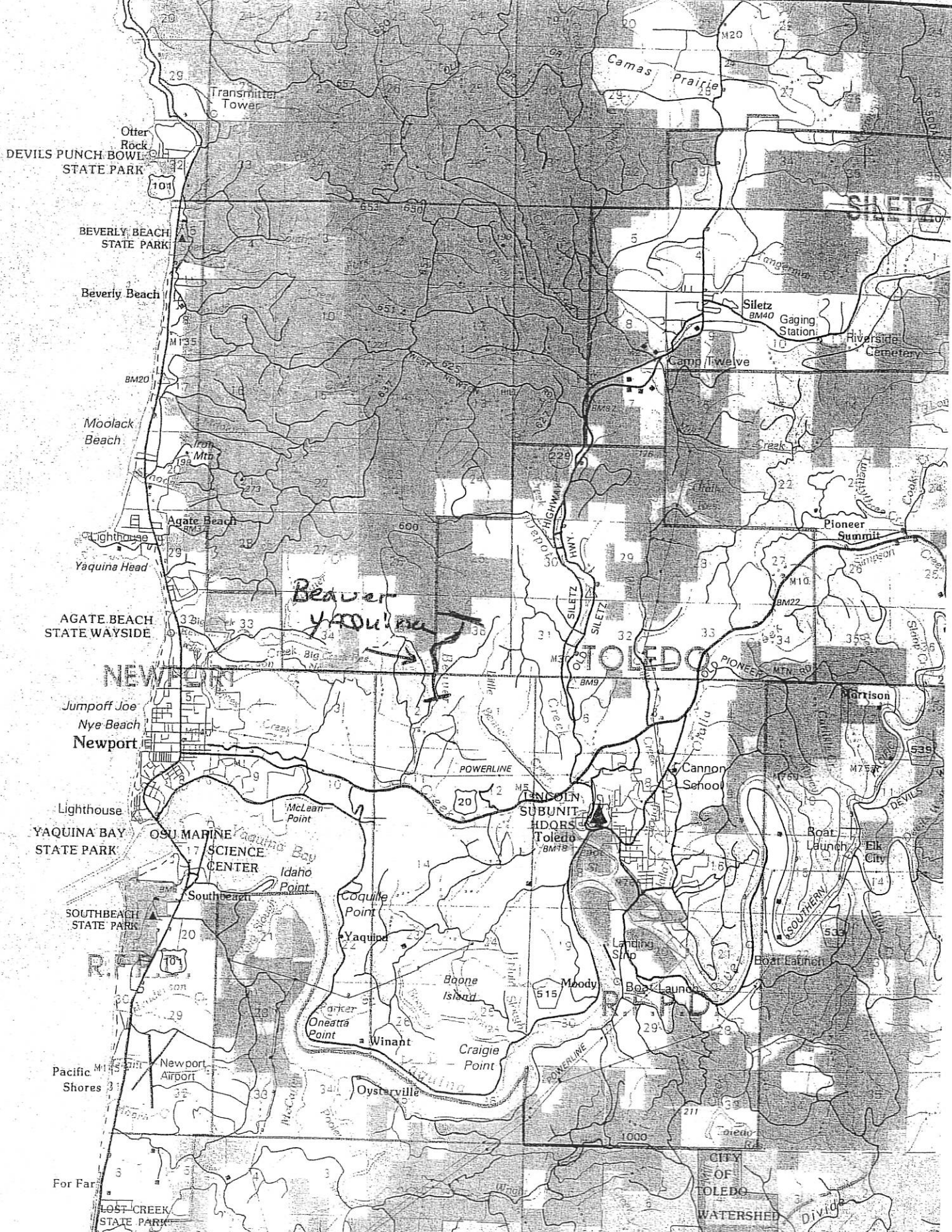
Map labels include: Camas Prairie, Upper Farm, Logsdon, Silerz Gaging Station, Riverside Cemetery, Camp Twelve, Pioneer Summit, Morrison, Cannon School, Boat Launch, Elk City, Eddyville H.S., Eddyville, Baber Mtn, Norton, Chitwood, and Harlan. Grid numbers 1-36 are visible across the map.

DEPOE BAY 2.5 MI. R. 11 W.

124° 00'

R. 10 W.

KERNVILLE 21.5 MI.



Beaver
Yaquina

NEWPORT

TOLEDO

OSU MARINE SCIENCE CENTER

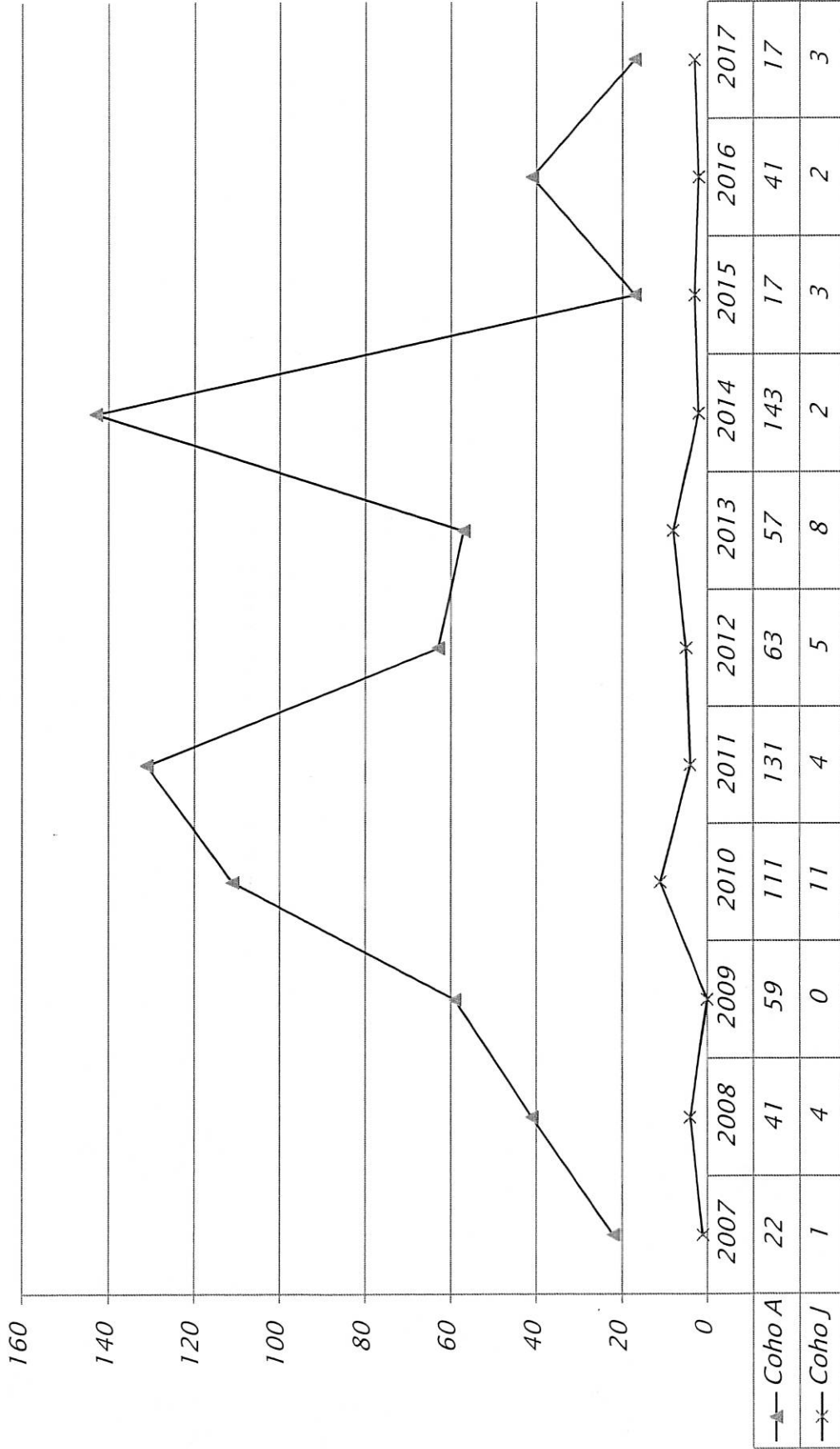
TOLEDO

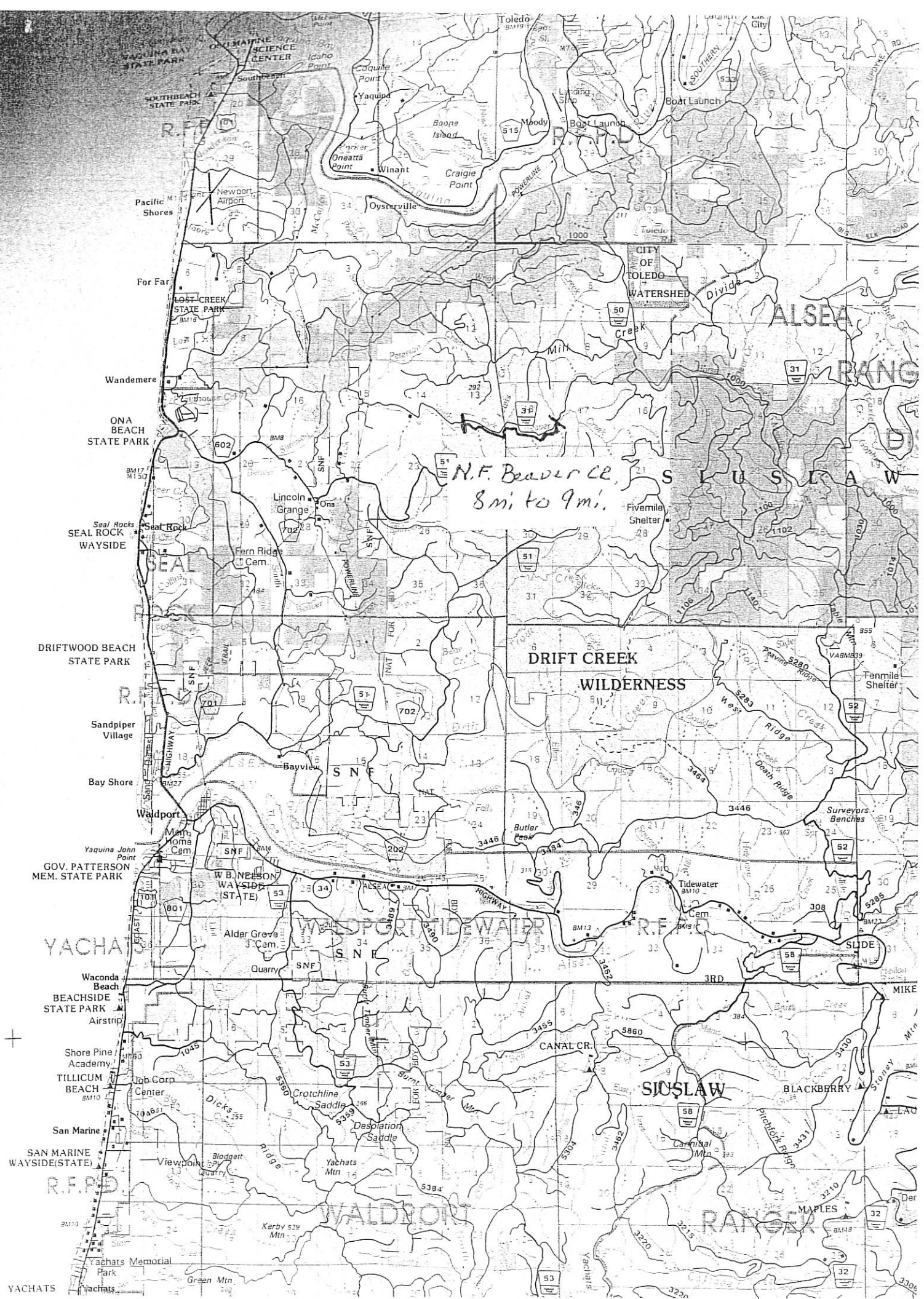
Pacific Shores

CITY OF TOLEDO WATERSHED

Lincoln Soil Water Conservation District
 Survey Results 2007-2017

N Beaver 8Mi to 9Mi Peak Counts





N.F. Beaver Cr.
8 mi to 9 mi.

DRIFT CREEK
WILDERNESS

SIOU SLAW

ALSEA
RANGE

GOV. PATTERSON
MEM. STATE PARK

DRIFTWOOD BEACH
STATE PARK

ONA BEACH
STATE PARK

PACIFIC SHORES

WACONDA BEACH
STATE PARK

SANDPIPER VILLAGE

SEAL ROCK
WAYSIDE

FOR FAR

WANDEMERE

SOUTH BEACH STATE PARK

YACHTS

SAN MARINE
WAYSIDE (STATE)

TILlicum BEACH

WALDPOR TIDEWATER

BAY SHORE

WALDPOR

SEAL ROCK

FOR FAR

PACIFIC SHORES

SOUTH BEACH STATE PARK

SOUTH BEACH STATE PARK

W.B. NELSON
WAYSIDE (STATE)

DRIFTWOOD BEACH
STATE PARK

ONA BEACH
STATE PARK

PACIFIC SHORES

WACONDA BEACH
STATE PARK

SANDPIPER VILLAGE

SEAL ROCK
WAYSIDE

FOR FAR

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FOR FAR

PACIFIC SHORES

SOUTH BEACH STATE PARK

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W.B. NELSON
WAYSIDE (STATE)

DRIFTWOOD BEACH
STATE PARK

ONA BEACH
STATE PARK

PACIFIC SHORES

WACONDA BEACH
STATE PARK

SANDPIPER VILLAGE

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FOR FAR

PACIFIC SHORES

SOUTH BEACH STATE PARK

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W.B. NELSON
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DRIFTWOOD BEACH
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PACIFIC SHORES

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STATE PARK

SANDPIPER VILLAGE

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WANDEMERE

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YACHTS

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WAYSIDE (STATE)

TILlicum BEACH

WALDPOR TIDEWATER

BAY SHORE

WALDPOR

SEAL ROCK

FOR FAR

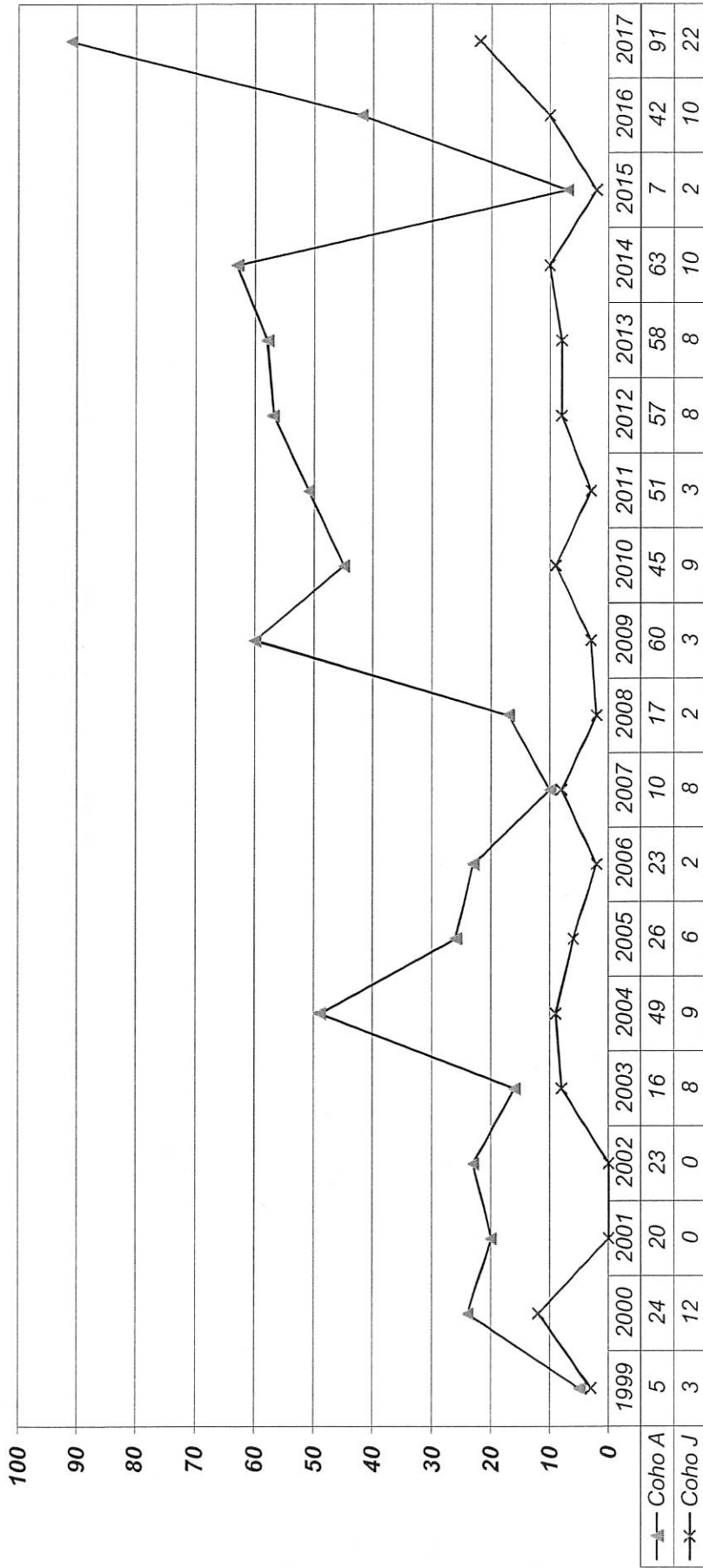
PACIFIC SHORES

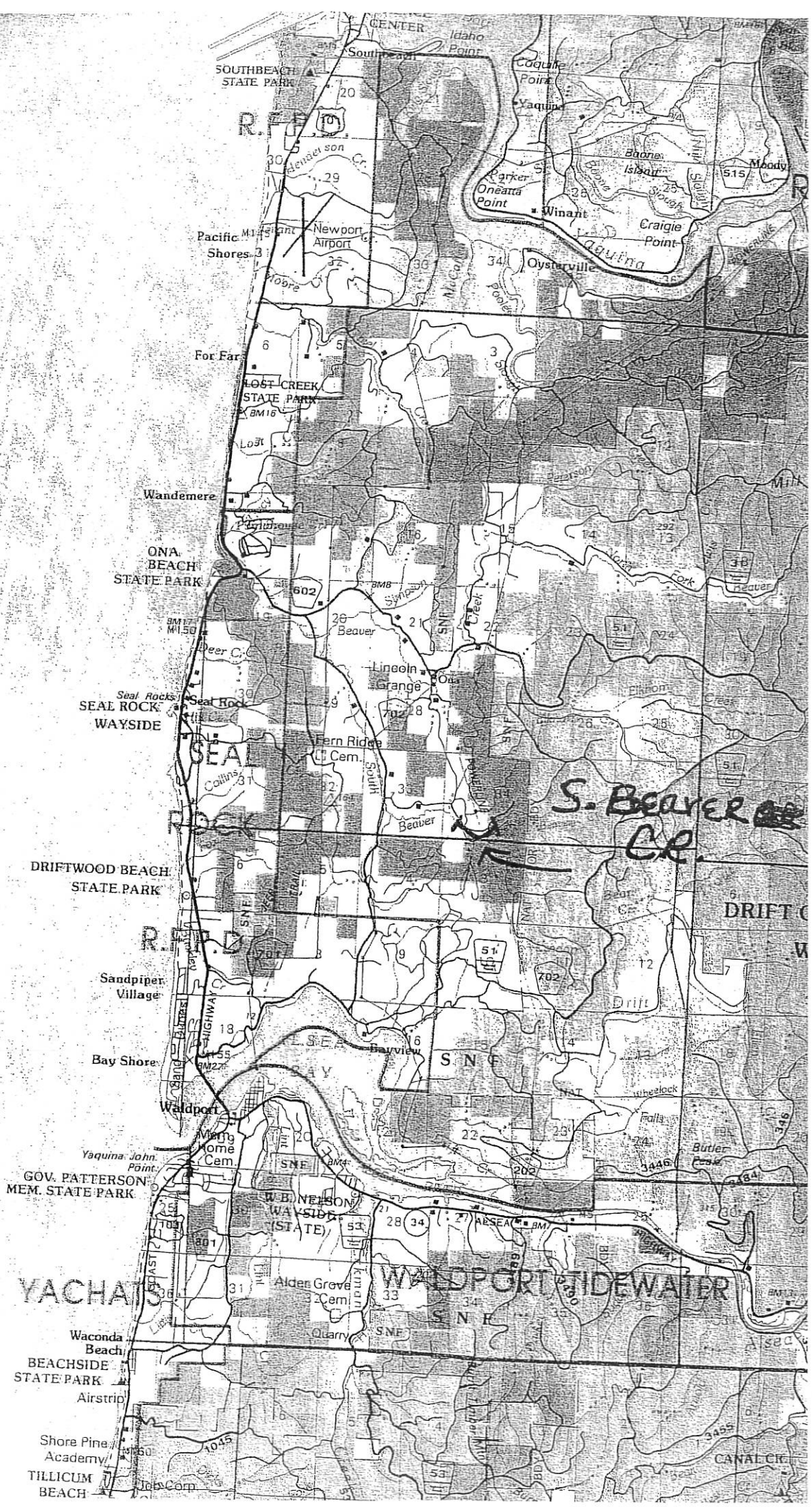
SOUTH BEACH STATE PARK

SOUTH BEACH STATE PARK

Lincoln Soil and Water Conservation District
 Survey Results 1999-2017

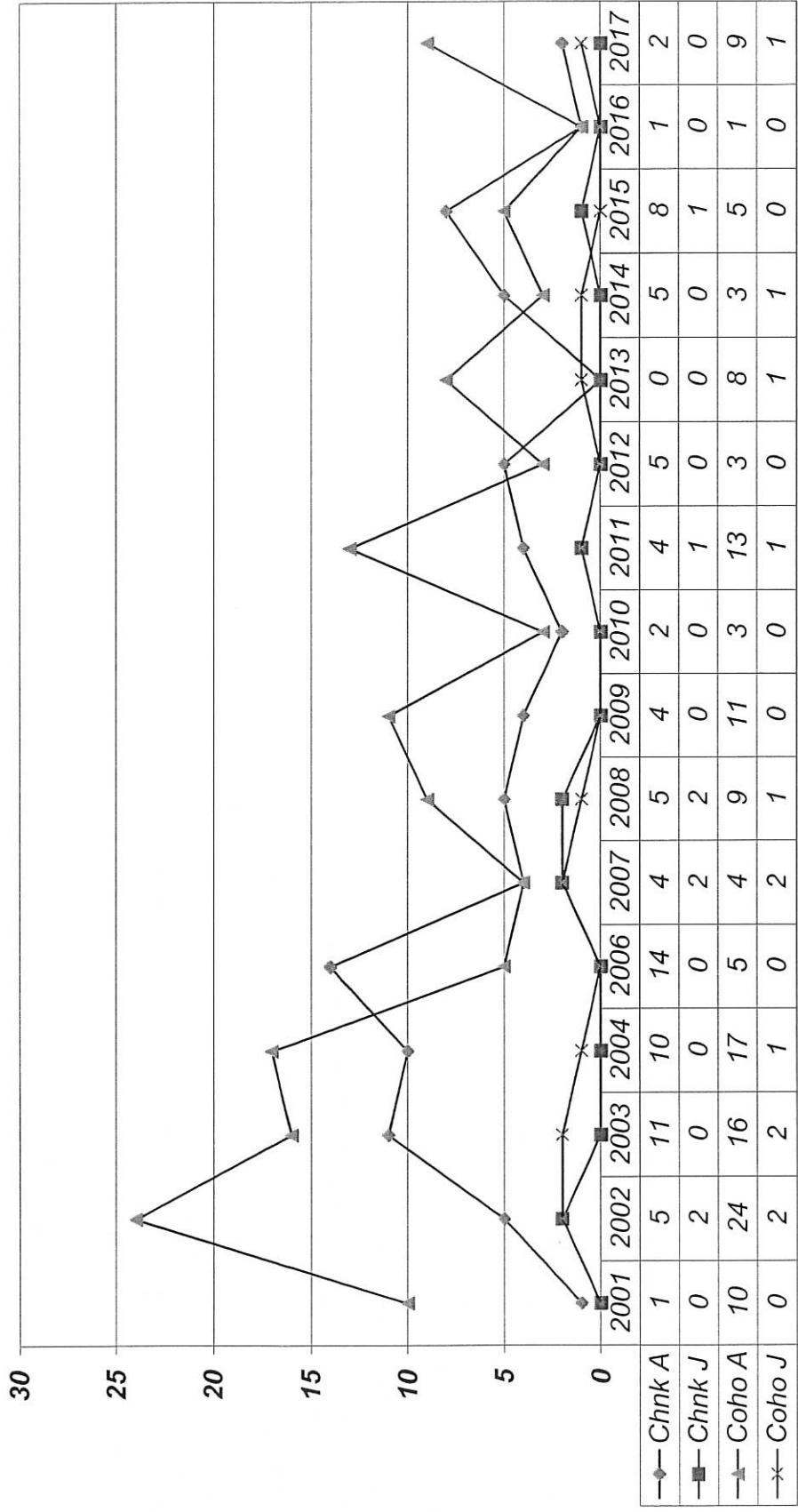
S. Beaver Cr. Peak Counts



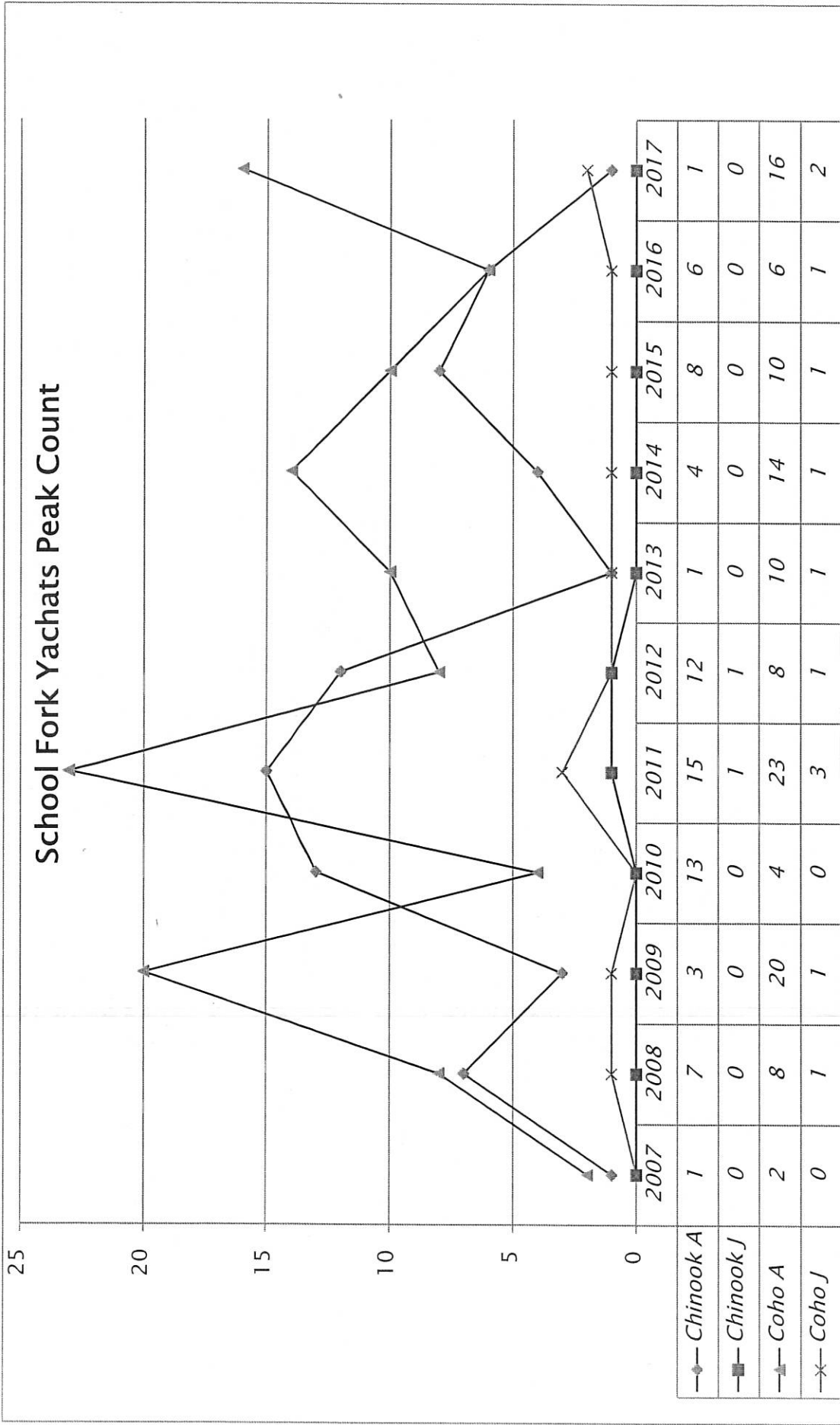


Lincoln Soil and Water Conservation District
 Survey Results 2001-2017

S Fk. Yachats Peak Count



Lincoln Soil and Water Conservation District Survey Results 2007-2017





Gov. Patterson Mem. State Park

Waldport Tidewater Reef

Waconda Beach State Park

Tillikum Beach

San Marine Wayside (State)

Yachats State Park

Yachats Memorial Park

Yachats School

Yachats Boat Ramp

Cape Perpetua Recreation Area

Neptune State Park

Gwynn Knoll

Bray Point

Searose Beach

Ocean Beach

Rocky Knoll

Roosevelt Beach

Ponsler State Park

Carl G. Washburne Memorial State Park

Devi's Elbow State Park

Hearts Head Coast Guard Res.

Devi's Elbow

Florence 12 MI.

W.B. Neilson Wayside (State)

Yachats Mtn

Yachats Mtn

Yachats Mtn

Yachats Mtn

Yachats Mtn

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S.F. Yachats
School Fork
Grass CR

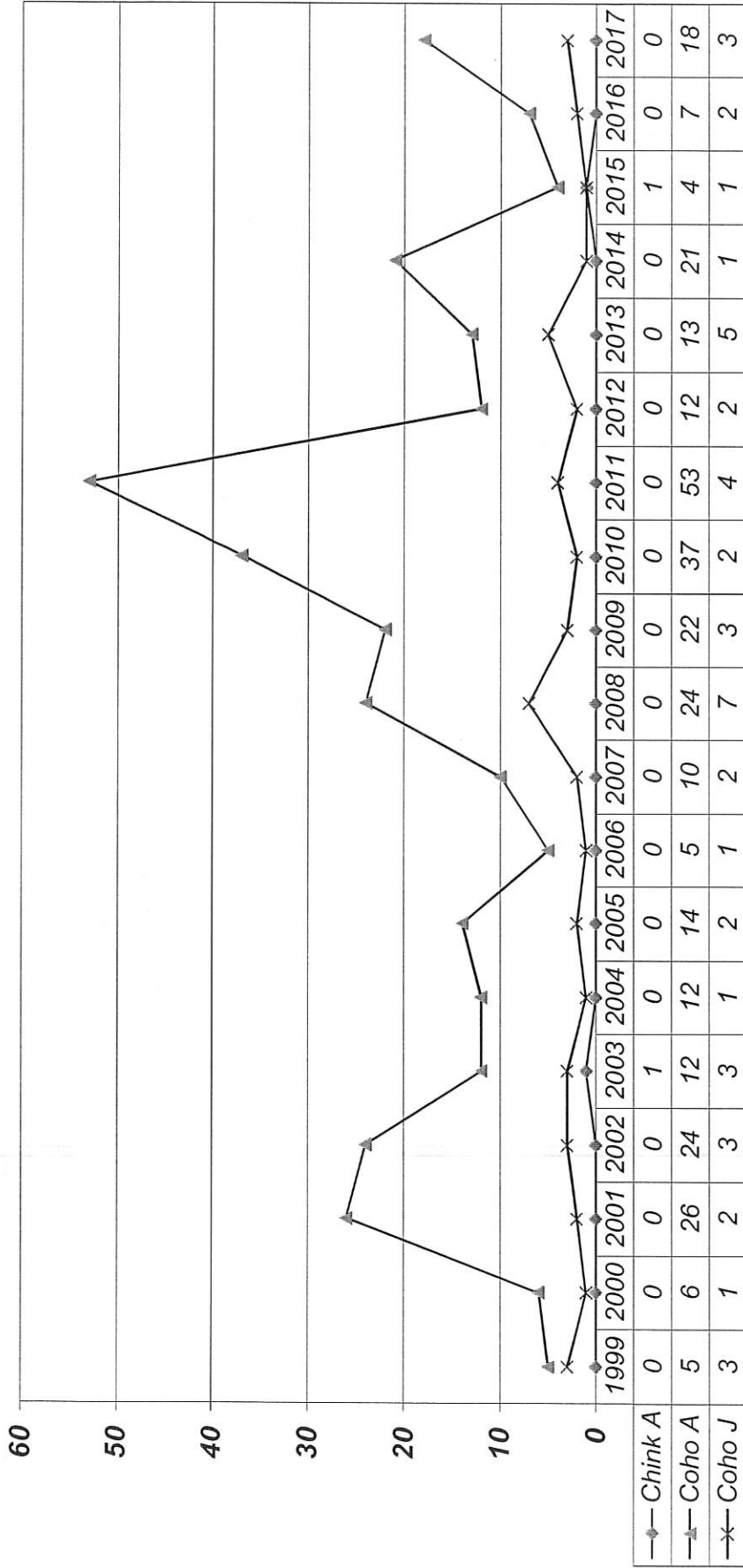
R. 12 W.

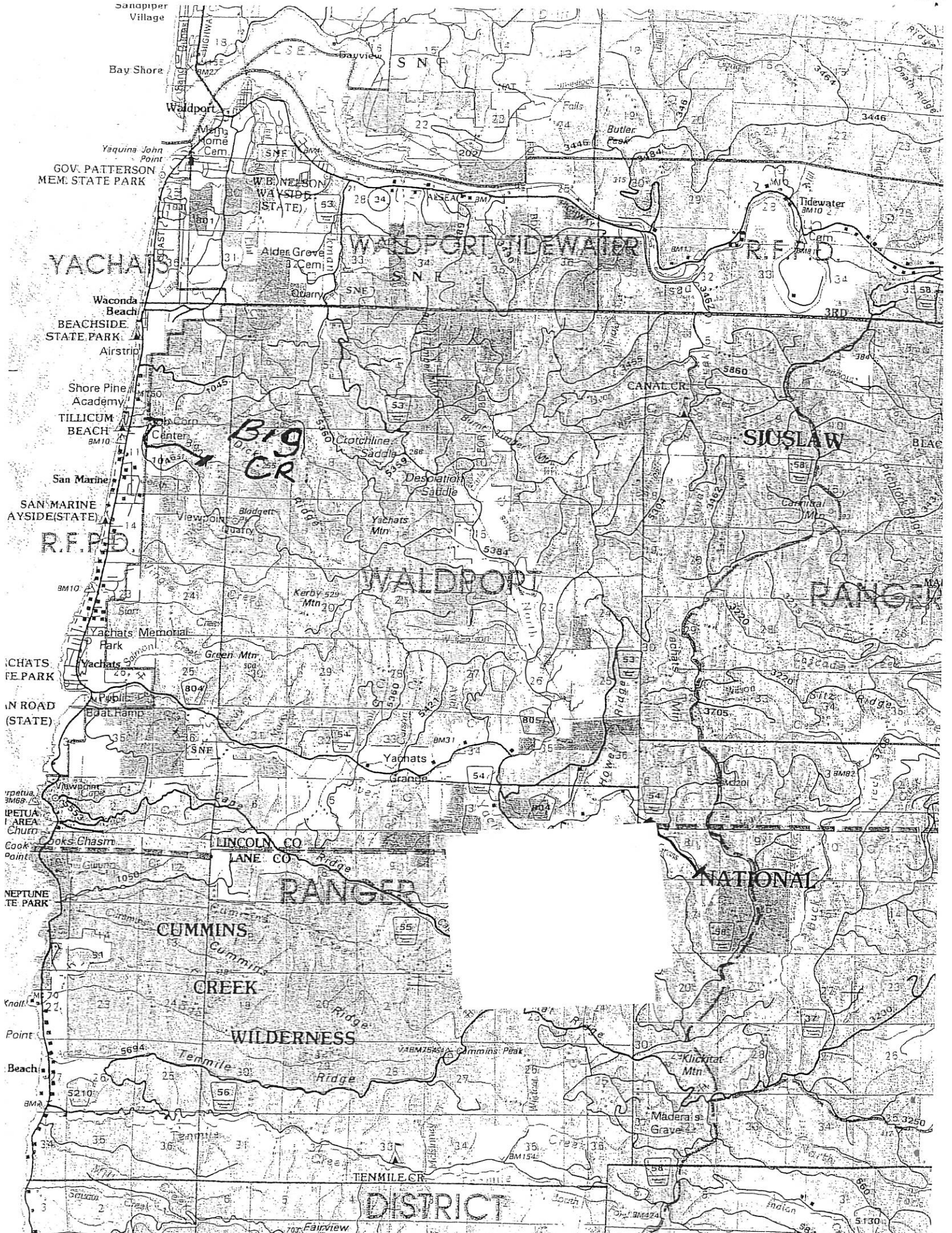
R. 11 W.

R. 10 W.

Lincoln Soil and Water Conservation District
 Survey Results 1999-2017

Big Creek Peak Count





YACHATS

WALDPORT TIDEWATER

SIOUSLAW

WALDPORT

RANGER

LINCOLN CO
LANE CO

RANGER

NATIONAL

CUMMINS

CREEK

WILDERNESS

TENMILE CR
DISTRICT

Sandpaper Village

Bay Shore

Waldport

GOV. PATTERSON MEM. STATE PARK

Yaquina John Point

W.B. NELSON WAYSIDE (STATE)

Alder Grove Cem

Tidewater Cem

Wacanda Beach BEACHSIDE STATE PARK

Airstrip

Shore Pine Academy

TILLICUM BEACH

San Marine

SAN MARINE AYSIDE (STATE)

R.F.P.D.

YACHATS STATE PARK

IN ROAD (STATE)

NEPTUNE STATE PARK

Point

Beach

Point

Beach

Point

107 Fairview

2017-18 GRTS Spawning Ground Escapement Estimates

Coast

Spawning Year	Group	Location	Coho Pop ID	Total Estimate	Total 95% CI	Wild Estimate	Wild 95% CI	Spawning Miles	Surveyed Miles	Surveys	C.I. %	pHOS
2017	OPITT	ESUCoast		55115	9697	54736	9690	4397.92	260.56	340	18%	0.7%
2017	OPITT	North Coast		13399	3235	13164	3228	979.01	69.88	91	25%	1.7%
2017	OPITT	Necanicum River	1	549	280	523	266	64.26	10.87	17	51%	4.7%
2017	OPITT	Nehalem River	2	5412	1992	5412	1992	479.52	19.04	24	37%	0.0%
2017	OPITT	Tillamook Bay	3	2899	1566	2899	1566	225.72	16.48	19	54%	0.0%
2017	OPITT	Nestucca River	4	4330	1983	4330	1983	159.60	19.04	24	46%	0.0%
2017	OPITT	NCDependent	5	208	197			49.91	4.45	7	-	-
2017	OPITT	Mid Coast		22752	4975	22656	4968	1356.21	84.74	118	22%	0.4%
2017	OPITT	Salmon River	6	406	170	406	170	46.80	12.05	15	42%	0.0%
2017	OPITT	Siletz River	7	5463	2493	5463	2493	141.96	20.73	26	46%	0.0%
2017	OPITT	Yaquina River	8	2600	933	2511	900	124.52	13.40	22	36%	3.4%
2017	OPITT	Beaver Creek	9	1515	948	1509	945	11.88	2.14	4	63%	0.4%
2017	OPITT	Alsea River	10	4155	1188	4155	1188	253.80	14.71	20	29%	0.0%
2017	OPITT	Siuslaw River	11	6968	3681	6968	3681	620.77	13.94	23	53%	0.0%
2017	OPITT	MCDependent	12	1646	1331	1646	1331	156.48	7.77	8	-	-
2017	OPITT	Mid-South Coast		7373	2822	7373	2822	694.87	61.50	71	38%	0.0%
2017	OPITT	Coos Bay	16	2509	1101	2509	1101	217.00	17.84	20	44%	0.0%
2017	OPITT	Coquille River	17	4359	2591	4359	2591	346.56	15.71	19	59%	0.0%
2017	OPITT	Floras Creek	18	443	197	443	197	76.50	14.88	17	44%	0.0%
2017	OPITT	Sixes River	19	61	40	61	40	38.16	10.13	12	66%	0.0%
2017	OPITT	MSDependent	20	0	0			16.65	2.94	3	-	-
2017	OPITT	Umpqua		11592	7130	11542	7129	1367.83	44.44	60	62%	0.4%
2017	OPITT	Lower Umpqua Riv	21	9097	7077	9097	7077	409.60	12.83	20	78%	0.0%
2017	OPITT	Middle Umpqua	22	1505	735	1505	735	368.55	17.11	21	49%	0.0%
2017	OPITT	North Umpqua	23	0	0			16.20	0.71	1	-	-
2017	OPITT	South Umpqua	24	990	461	940	438	573.48	13.78	18	47%	5.0%

Lower Columbia

Spawning Year	Group	Location	Coho Pop ID	Total Estimate	Total 95% CI	Wild Estimate	Wild 95% CI	Spawning Miles	Surveyed Miles	Surveys	C.I. %	pHOS
2017	LCOPITT	ESUCoast		4074	1501	2996	830	380.16	94.40	104	28%	26.4%
2017	LCOPITT	Coast		769	259	681	238	124.01	30.65	39	35%	11.4%
2017	LCOPITT	Clatskanie	43	471	169	393	141	58.38	17.73	21	36%	16.5%
2017	LCOPITT	Plympton Cr		6	0	3	0	1.03	1.03	1	-	50.0%
2017	LCOPITT	Scappoose	44	292	196	285	191	64.60	11.89	17	67%	2.4%
2017	LCOPITT	Cascade		3311	1479	2318	795	256.15	63.75	65	34%	30.0%
2017	LCOPITT	Clackamas	45	411	124	342	104	117.80	15.66	19	30%	16.7%
2017	LCOPITT	Eagle Cr (Clack.) subbasin		1040	1253	116	140	41.04	9.97	9	120%	88.8%
2017	LCOPITT	Sandy River	46	1860	776	1860	776	97.31	38.12	37	42%	0.0%
2017	LCOPITT	Gorge							0.00	0	-	-
2017	LCOPITT	Lower Gorge	47						0.00	0	-	-
2017	LCOPITT	Hood River	48						0.00	0	-	-

Oregon Coast ESU

Annual estimates of *wild* adult coho spawner abundance in coastal river basins within the Oregon Coast ESU (OCN), 2004-2017

02-Feb-18

Data Source:		EMAP Est.													Preliminary 2017	Prev. 10yr Average	
Geographic Scale		Spawner Abundance by Return Year															
ESU / Straits / Population	Estimate Type	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016			
Oregon Coast ESU																	
North Coast:																	
Necanicum R.	Spawning Ground Survey	2,198	1,218	750	431	1,055	3,827	4,445	2,120	902	798	5,727	847	936	523	25%	2,109
Nehalem R.	Spawning Ground Survey	18,736	10,451	11,614	14,033	17,205	21,753	32,215	15,322	2,963	4,539	30,577	3,079	7,549	5,412	36%	14,924
Tillamook Bay	Spawning Ground Survey	2,532	1,995	8,774	<u>2,295</u>	4,828	16,251	14,890	19,250	1,686	4,402	20,090	1,345	7,102	2,899	31%	9,214
Nestucca R.	Spawning Ground Survey	4,695	<u>686</u>	1,876	<u>394</u>	1,844	4,252	1,947	7,857	1,751	946	6,369	1,029	2,412	4,330	190%	2,880
N Coast Dependents	Spawning Ground Survey	661	2,116	1,121	376	639	2,052	1,473	1,341	218	271	4,607	440	699	208	17%	1,212
Total		28,822	16,466	24,135	17,529	25,571	48,135	54,970	46,890	7,520	10,956	67,370	6,740	18,698	13,372	44%	30,338
Mid Coast:																	
Salmon R.	Spawning Ground Survey	1,642	79	513	59	652	753	1,382	3,636	297	1,165	3,680	332	1,054	406	31%	1,301
Siletz R.	Spawning Ground Survey	8,179	14,567	5,205	2,197	20,634	24,070	6,283	33,094	4,495	7,660	19,496	2,216	3,015	5,463	44%	12,316
Yaquina R.	Spawning Ground Survey	5,539	3,441	4,247	3,158	10,913	11,182	8,589	19,074	6,268	3,553	25,582	2,400	3,730	2,511	27%	9,445
Beaver Cr.	Spawning Ground Survey	4,569	2,264	1,950	611	1,218	3,575	2,072	2,389	1,878	2,015	6,564	332	1,709	1,509	87%	2,236
Alsea R.	Spawning Ground Survey	5,233	13,907	1,972	2,146	13,320	14,638	9,688	28,337	8,470	9,283	25,733	6,162	7,366	4,155	33%	12,514
	Alsea Hatchery Weir Passage	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	122	23	9	14			
	Total	5,233	13,907	1,972	2,146	13,320	14,638	9,688	28,337	8,470	9,283	25,855	6,185	7,375	4,169	33%	12,530
Siuslaw R.	Spawning Ground Survey	8,729	16,907	5,869	3,552	17,491	30,607	25,983	28,082	11,946	14,118	38,896	10,352	9,141	6,968	37%	19,017
Mid-Coast Depender	Spawning Ground Survey	8,179	246	1,468	546	3,910	1,610	2,548	4,487	492	1,929	1,890	856	464	1,646	88%	1,873
Total		42,070	51,411	21,224	12,269	68,138	86,435	56,545	119,099	33,846	39,723	121,963	22,673	26,488	22,672	30%	58,718
Umpqua:																	
Lower Umpqua R.	Spawning Ground Survey	8,989	18,591	7,994	4,237	9,023	19,245	17,516	18,715	3,731	7,792	36,942	3,725	4,422	9,097	73%	12,535
Middle Umpqua R.	Spawning Ground Survey	6,375	7,608	4,852	1,587	4,472	15,075	18,123	19,962	2,447	4,272	13,939	2,245	1,159	1,505	18%	8,228
North Umpqua R.	Spawning Ground Survey	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	21	37	298	0	0	0	0%	71
	Winchester Dam Count ^a	3,559	1,969	3,000	1,410	3,438	7,720	9,397	6,020	3,113	2,737	3,681	3,012	1,148	1,772	43%	4,168
	Total	3,559	1,969	3,000	1,410	3,438	7,720	9,397	6,020	3,134	2,774	3,979	3,012	1,148	1,772	42%	4,263
South Umpqua R.	Spawning Ground Survey	10,997	14,364	2,246	4,549	20,935	15,944	24,983	49,958	11,636	12,178	11,412	5,878	765	940	8%	15,824
Total		29,920	42,532	18,092	11,783	37,868	57,984	70,019	94,655	20,948	27,016	66,272	14,860	7,494	13,314	33%	40,140
Lakes:^c																	
Siltcoos Lake	Spawning Ground Survey	7,998	4,364	5,452	1,447	3,873	5,197	7,678	6,354	3,945	3,797	7,178	1,558	2,421	707	18%	4,345
Tahkenitch Lake	Spawning Ground Survey	3,496	1,897	3,611	3,551	2,604	2,977	10,681	6,644	5,675	3,413	3,691	1,085	1,249	275	7%	4,157
Tenmile Lake	Spawning Ground Survey	7,148	8,464	15,064	3,957	17,131	9,175	20,385	7,283	9,302	6,449	11,141	2,086	4,374	318	3%	9,128
Total		18,642	14,725	24,127	8,955	23,608	17,349	38,744	20,281	18,922	13,659	22,010	4,729	8,044	1,300	7%	17,630
Mid-South Coast:																	
Coos Bay	Spawning Ground Survey	23,337	17,048	11,266	1,329	14,881	26,979	27,658	10,999	9,414	6,884	38,880	3,030	4,624	2,509	17%	14,468
Coquille R.	Spawning Ground Survey	22,138	11,806	28,577	13,968	8,791	22,286	23,564	55,667	5,911	23,637	41,660	3,357	9,494	4,359	21%	20,334
Floras Creek	Spawning Ground Survey	7,446	<u>506</u>	1,104	340	786	3,203	11,329	9,217	2,502	1,936	1,022	1,585	942	443	13%	3,286
Sixes R.	Spawning Ground Survey	403	<u>105</u>	<u>294</u>	<u>97</u>	43	176	92	334	34	567	410	168	120	61	10%	204
Mid-South Dependents	Spawning Ground Survey	n.a.	n.a.	n.a.	n.a.	0	188	484	101	48	32	105	0	0	0	0%	106
Total		53,324	29,465	41,241	15,734	24,501	52,832	63,127	76,318	17,909	33,056	82,077	8,140	15,180	7,372	19%	38,887
Oregon Coastal ESU																	
		172,778	154,599	128,819	66,270	179,686	262,735	283,405	356,243	99,145	124,410	359,692	57,142	75,904	58,030	31%	186,463
Spawner/Spawner Ratio		1.06	0.80	0.56	0.38	1.16	2.04	4.28	1.98	0.38	0.44	1.01	0.58	0.61	0.78		1.29
Southern Oregon / Northern California Coast ESU																	
Rogue (Huntley Seining)		24,509	9,957	3,911	5,136	414	2,566	3,671	4,545	5,474	11,210	2,409	4,072	6,302	4,526	99%	4,580
Spawner/Spawner Ratio		2.04	1.18	0.37	0.21	0.04	0.66	0.71	10.98	2.13	3.05	0.33	0.74	0.56	1.38		1.96

n.a. = Not available.

Data Sources:

NMFS/OCCCP = Data for run years through 2003 is as reported in NOAA Technical Memorandum NMFS-NWFSC-91, and in the Oregon Coast Coho Conservation Plan (Appendix 2).

EMAP Est. = Abundance and wild fraction are based on spawning ground survey results from the ODFW Oregon Adult Salmonid Inventory and Sampling (OASIS) Project. In a few cases there were inadequate coho carcass recoveries (<10) and/or inadequate surveys, to estimate abundance and/or wild fractions. In these cases (underlined) we used the same methods to estimate the missing data as documented in the NMFS and OCCCP reports used for the pre-2004 run years data.

a = Spawning ground estimate does not include area above listed counting stations.

b = North Umpqua River Population: Abundance and wild fraction are based on counts at Winchester Dam, adjusted for fish removed by harvest and hatchery operations.

c = Coastal Lake Populations: Abundance is based on calibrated standard survey protocols developed in the 1950's and 1960's. Wild fraction is based on observations of marks on coho carcasses recovered on all spawning survey in each year.

