

Ocean Salmon Industry Group Meeting
February 25, 2021
10:00 a.m.—3:00 p.m



ZoomGov Virtual Meeting:

<https://www.zoomgov.com/j/1615325489>

or call-in:

**+1 669-254-5252, +1 669-216-1590,
+1 646-828-7666, or +1 551-2851373
Meeting ID: 161 532 5489**

Slides available on-line at:

www.dfw.state.or.us/mrp/salmon/

- 10:00 Welcome, Introductions, and Meeting Logistics for Participation in the Virtual Meeting — *Eric Schindler, Ocean Salmon Management, Ocean Sampling Project Leader, ODFW*
- 10:20 Review of 2020 Ocean Fisheries—*Eric Schindler, Ocean Salmon Management, Ocean Sampling Project Leader, ODFW*
- 10:50 Review of 2020 Salmon Spawner Escapements and 2021 Coho and Chinook Abundance Forecasts—*Craig Foster, Salmon Technical Team, ODFW*
- 11:30 Sideboards, Guidelines, and Issues Affecting 2021 Salmon Season Structure—*Chris Kern, Christine Mallette, and staff, ODFW*
- Sacramento Chinook Limitations
 - Klamath Fall Chinook / California Coastal Fall Chinook
 - Lower Columbia River (LCR) Tule Chinook
 - Oregon Coastal Natural (OCN) Coho
 - Lower Columbia River Natural (LCN) Coho
 - Washington Coho Stocks of concern
- 12:00 p.m. Lunch Break (during break, be thinking about recommendations)
- 1:00 Forum to Develop Oregon Preferred Season Options (advice to Oregon representatives on the PFMC)
- Recreational Ocean Salmon Fishery Preferred Options
 - North of Cape Falcon
 - Cape Falcon to Humbug Mountain
 - Humbug Mountain to Oregon/California Border
 - Commercial Troll Salmon Fishery Preferred Options
 - North of Cape Falcon
 - Cape Falcon to Humbug Mountain
 - Humbug Mountain to Oregon/California Border
- 3:00 Adjourn

Summary of Oregon's 2020 Ocean Recreational and Commercial Troll Salmon Seasons Including: Fishing Effort, Catches, and Supplemental Information



Ocean Salmon Effort and Landing Estimates for 2020 with Comparison to 2019, 2018, and 2010-2019 Average.

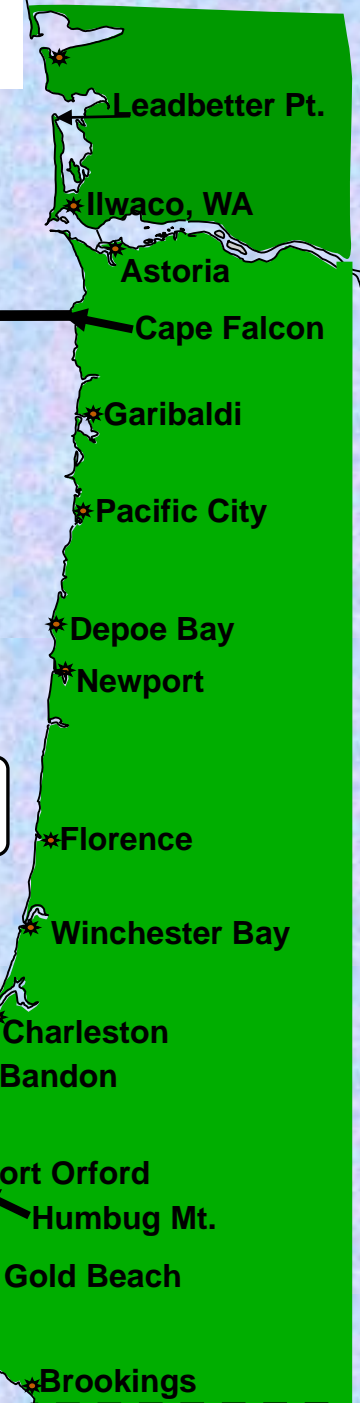
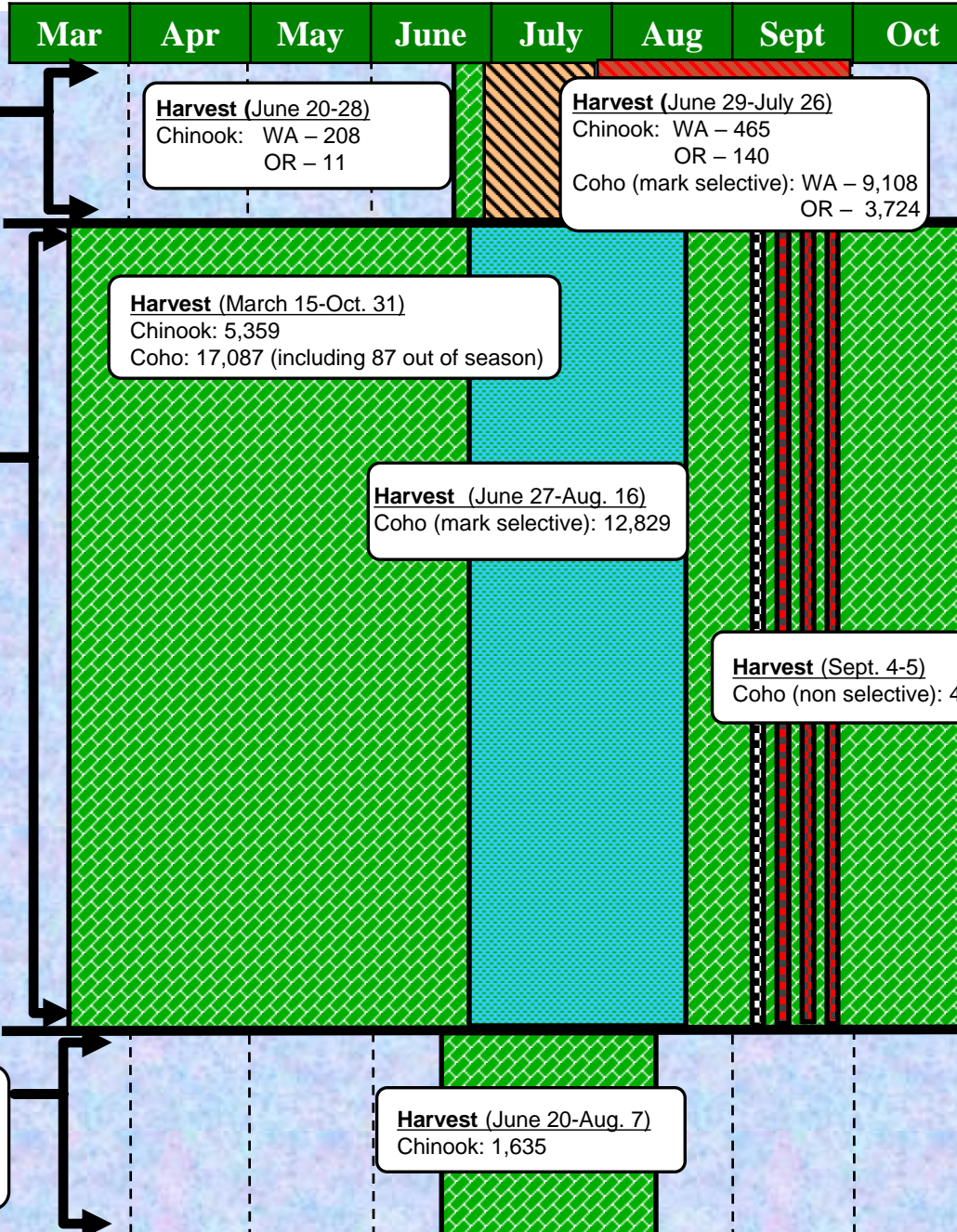
Recreational Ocean Salmon Fisheries

Catch Area	Effort (Angler Trips)				Chinook (Number of Fish)				Coho (Number of Fish)			
	2020	2019	2018	2010-19	2020	2019	2018	2010-19	2020	2019	2018	2010-19
Columbia River	3,450	14,695	7,699	8,485	151	1,295	689	1,705	3,724	17,224	7,128	7,700
Tillamook	13,194	21,102	11,259	14,561	1,452	1,306	706	1,507	2,717	10,720	2,809	6,655
Newport	18,617	35,113	23,563	18,966	1,980	2,202	1,209	1,241	10,515	28,237	11,264	13,310
Coos Bay	15,479	18,969	14,310	16,697	1,927	1,231	793	3,013	3,855	9,590	4,453	3,847
Brookings	6,261	4,357	7,000	9,470	1,635	572	1,593	3,271	16	542	18	205
Oregon Total	57,001	94,236	63,831	68,179	7,145	6,606	4,990	10,737	20,827	66,313	25,672	31,717

Commercial Ocean Troll Salmon Fisheries

Catch Area	Effort (Boat Days)				Chinook (Number of Fish)				Coho (Number of Fish)			
	2020	2019	2018	2010-19	2020	2019	2018	2010-19	2020	2019	2018	2010-19
Columbia River	66	187	98	412	190	508	333	5,698	129	1,412	92	1,447
Tillamook	134	137	179	425	683	567	465	3,970	-	-	-	410
Newport	1,243	1,592	1,043	1,928	8,840	22,764	14,487	26,562	-	-	-	122
Coos Bay	465	387	778	2,292	2,217	3,171	5,277	28,472	-	-	-	98
Brookings	122	236	475	379	825	1,872	3,899	4,122	-	-	-	-
Oregon Total	2,030	2,539	2,573	5,436	12,755	28,882	24,461	68,824	129	1,412	92	2,077

Oregon Ocean Recreational Salmon Seasons, 2020



Leadbetter Pt. to Cape Falcon: Seasons
 Coho Quota = 13,250 fin-clipped coho
 Chinook Guideline = 7,000
 ● June 20-28: All salmon except coho. One salmon per day.
 ● June 29-**July 26** Sept. 30: Open for All Salmon (Mark Selective for coho). Two salmon per day, but no more than one Chinook.

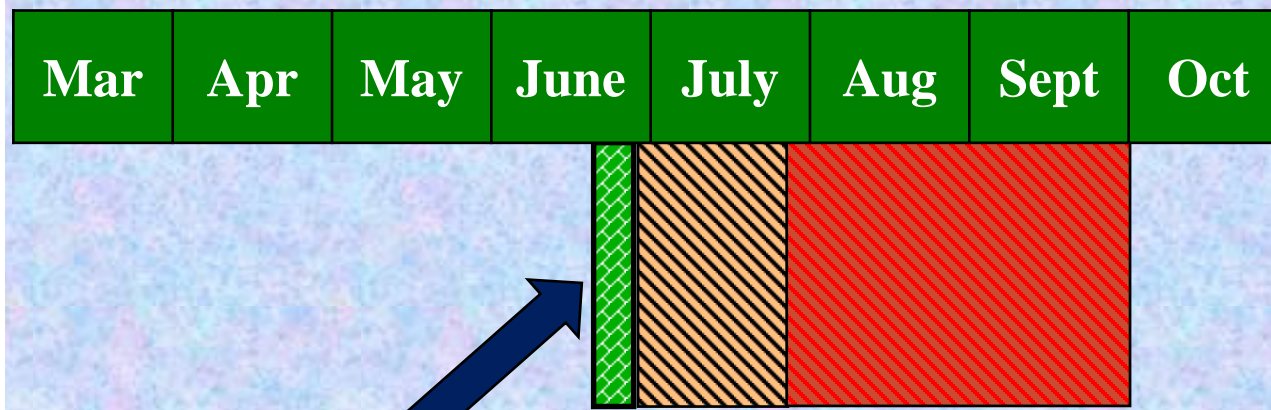
Cape Falcon to Humbug Mt.: Seasons
 ● All Salmon Except Coho: 2 salmon per day
 No Quota
 March 15-Oct. 31
 ● All Salmon (Mark Selective coho): 2 salmon per day
 Quota = 22,000 fin-clipped coho
 June 27 - Aug. 16
 ● Open for All Salmon (Non Selective coho): 2 salmon per day
 Quota = 3,000 **4,650** coho
 Open each Fri-Sat **Sept. 4-5 only**
 from Sept 4-30

Humbug Mt. to OR/CA Border: Season
 ● All Salmon Except Coho: 2 salmon per day
 No Quota
 June 20-Aug. 7

- All salmon, 2 per day only one of which may be a Chinook. All coho must have a healed adipose fin clip.
- All salmon except coho, Bag limit 1 per day North of Cape Falcon and 2 per day South of Cape Falcon.
- All salmon, 2 per day. All coho must have a healed adipose fin clip. A portion of any remaining coho quota may be rolled forward to the September non mark selective coho season on an impact neutral basis.
- All salmon, 2 per day. Open for all salmon, and no fin-clip restriction on retained coho.

Note: Red shading indicates seasons that were closed early due to quota attainment.
 Other Regulations:
 1) Minimum lengths: Chinook - 22" N. of Cape Falcon and 24" S. of Cape Falcon, coho - 16", steelhead - 20"; no size restriction for pink, chum, or sockeye salmon.
 2) In the Stonewall Bank Yelloweye Rockfish Cons. Area, salmon fishing is limited to trolling on open "all depth halibut" days.
 3) No more than 2 single point barbless hooks and one line when fishing for salmon or when a salmon is on board.

Oregon Ocean Recreational Salmon Seasons, 2020: North of Cape Falcon



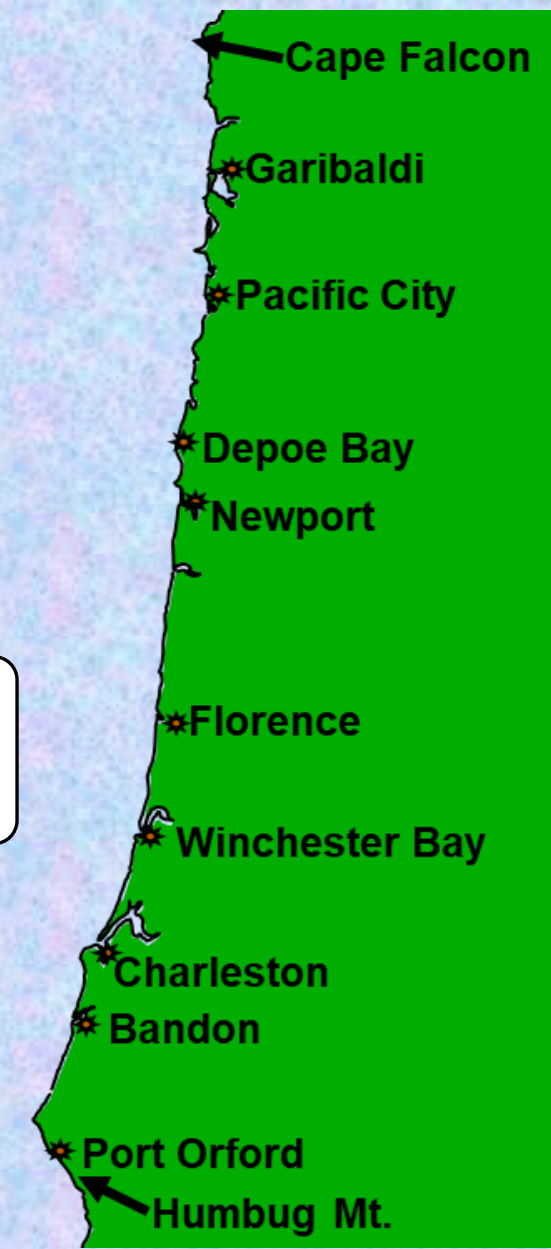
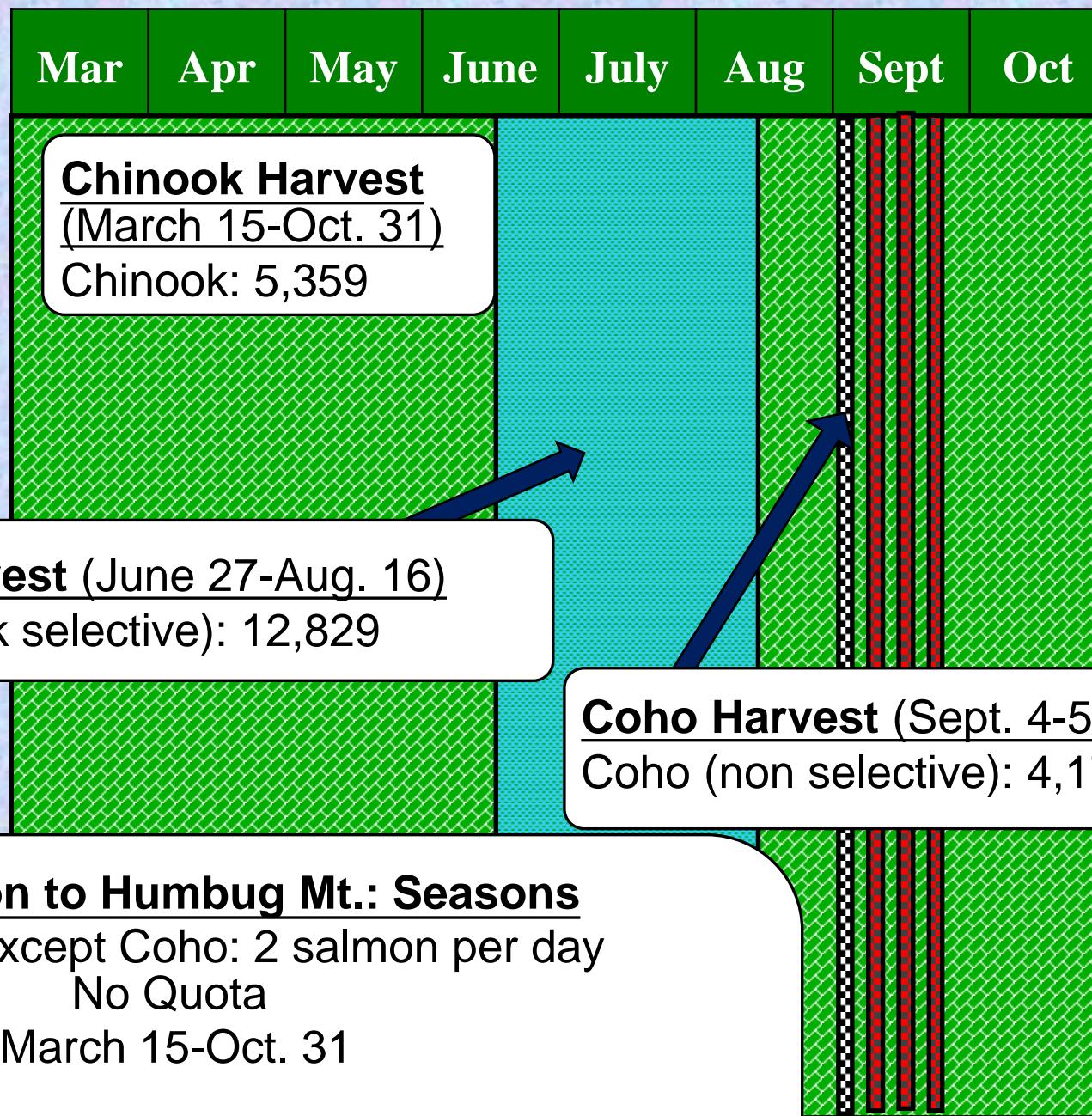
Harvest (June 20-28)
 Chinook: WA – 208
 OR – 11

Harvest (June 29-July 26)
 Chinook: WA – 465
 OR – 140
 Coho (mark selective): WA – 9,108
 OR – 3,724

Leadbetter Pt. to Cape Falcon: Seasons
 Coho Quota = 13,250 fin-clipped coho
 Chinook Guideline = 7,000

- June 20-28: All salmon except coho. One salmon per day.
- June 29-**July 26** ~~Sept. 30~~: Open for All Salmon (Mark Selective for coho). Two salmon per day, but no more than one Chinook.

**Oregon Ocean
Recreational
Salmon
Seasons, 2020:
Cape Falcon to
Humbug Mt.**

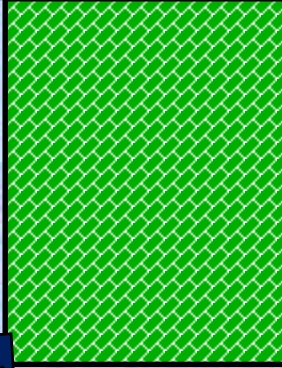
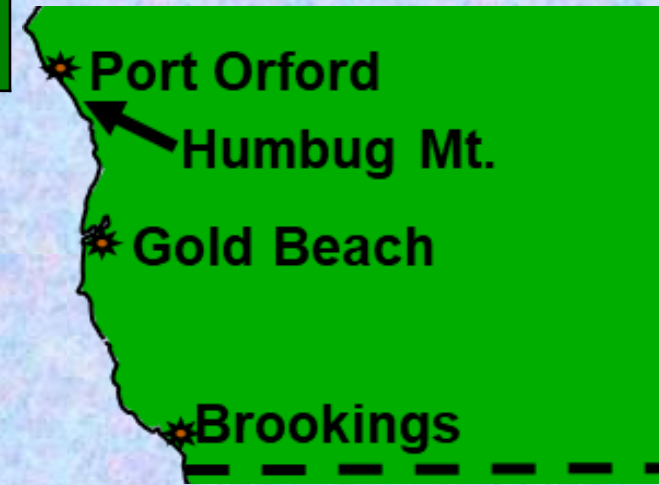


Cape Falcon to Humbug Mt.: Seasons

- All Salmon Except Coho: 2 salmon per day
No Quota
March 15-Oct. 31
- All Salmon (Mark Selective coho): 2 salmon per day
Quota = 22,000 fin-clipped coho
June 27 – Aug. 16
- ⊕ Open for All Salmon (Non Selective coho): 2 salmon per day
Quota = 3,000 **4,650** coho
Open each Fri-Sat **Sept. 4-5 only**
from Sept 4-30

**Oregon Ocean
Recreational
Salmon
Seasons, 2020:
Humbug Mt. to
OR/CA Border**

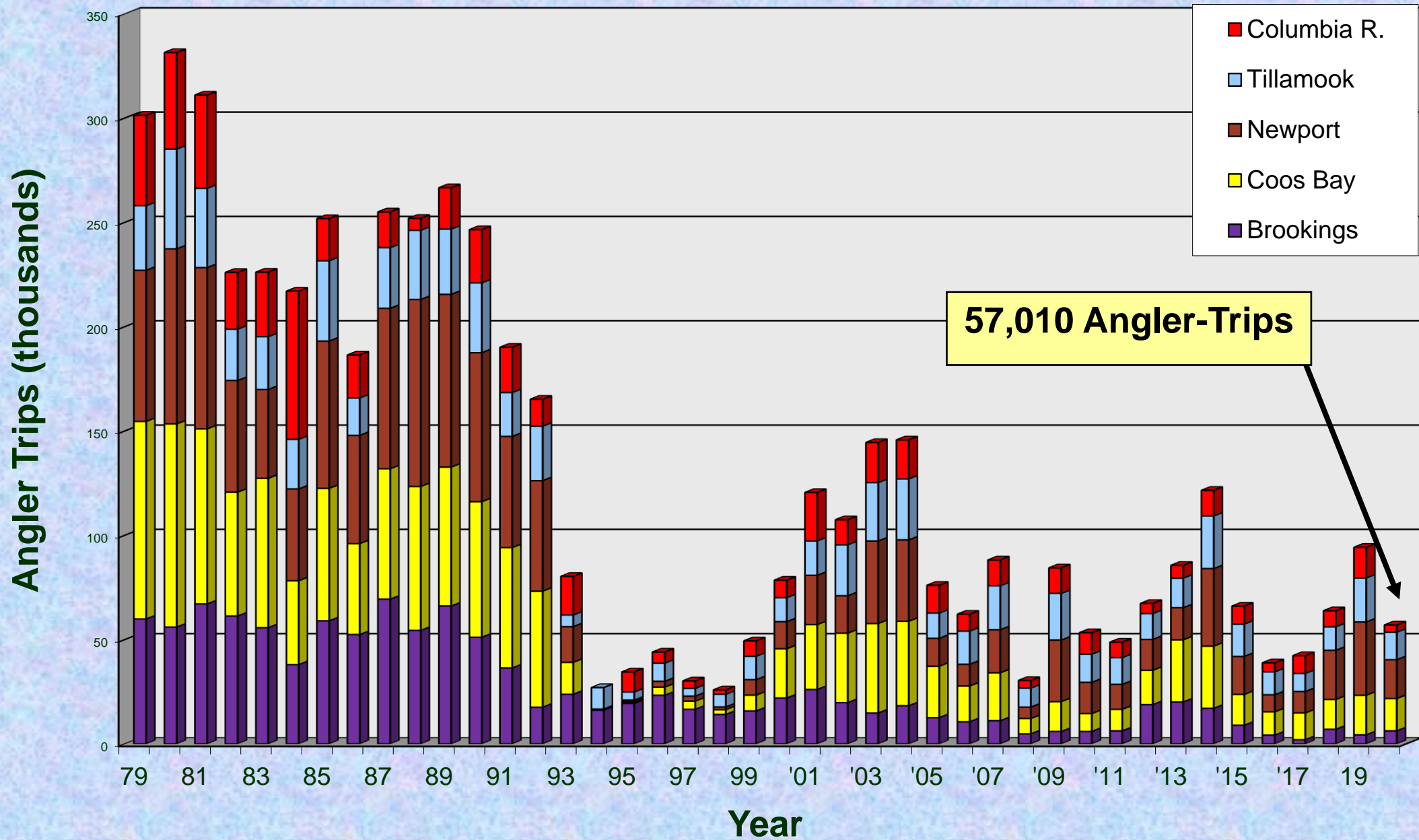
Mar	Apr	May	June	July	Aug	Sept	Oct
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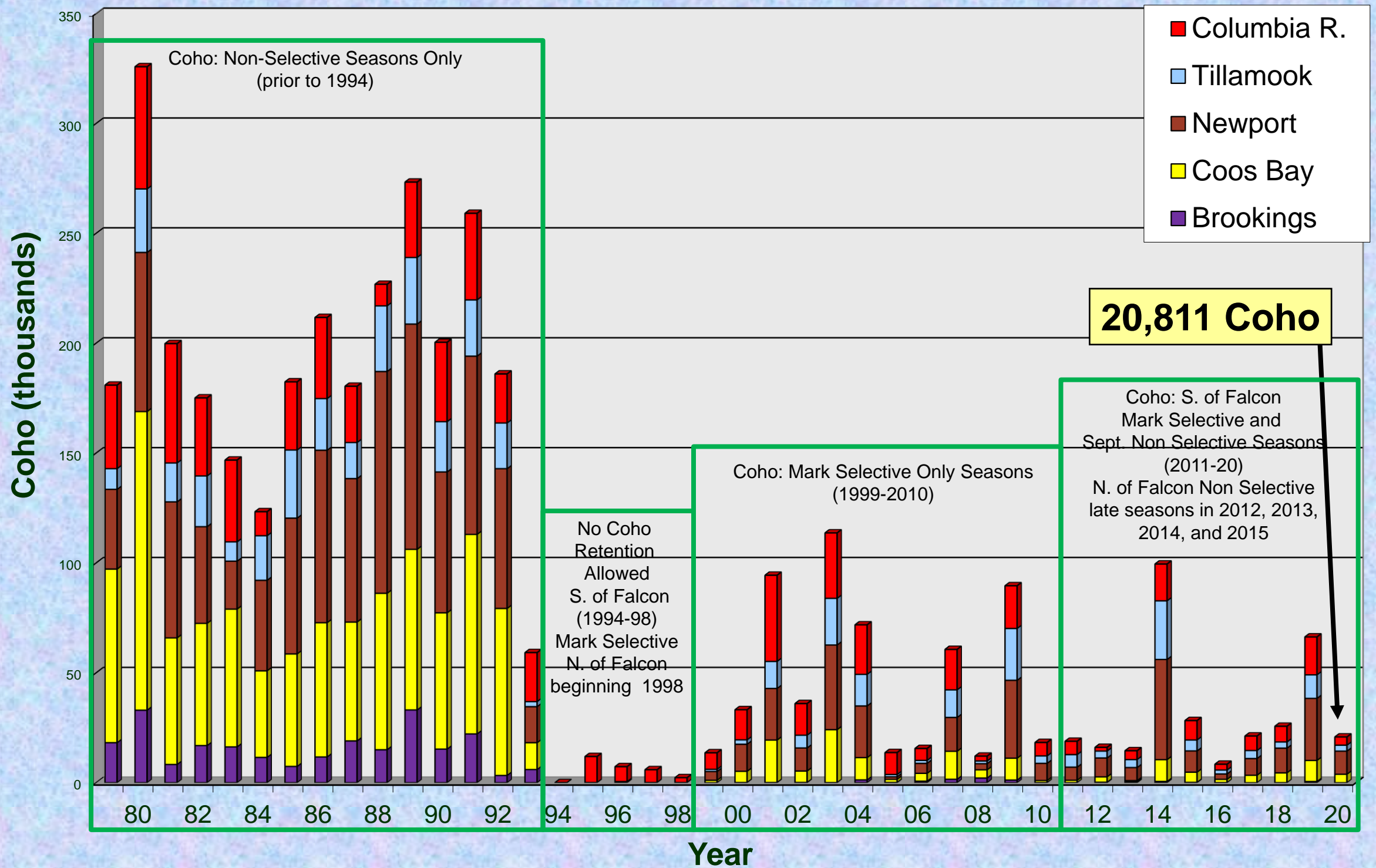
Harvest (June 20-Aug. 7)
Chinook: 1,635

Humbug Mt. to OR/CA Border: Season
● All Salmon Except Coho: 2 salmon per day
No Quota
June 20-Aug. 7

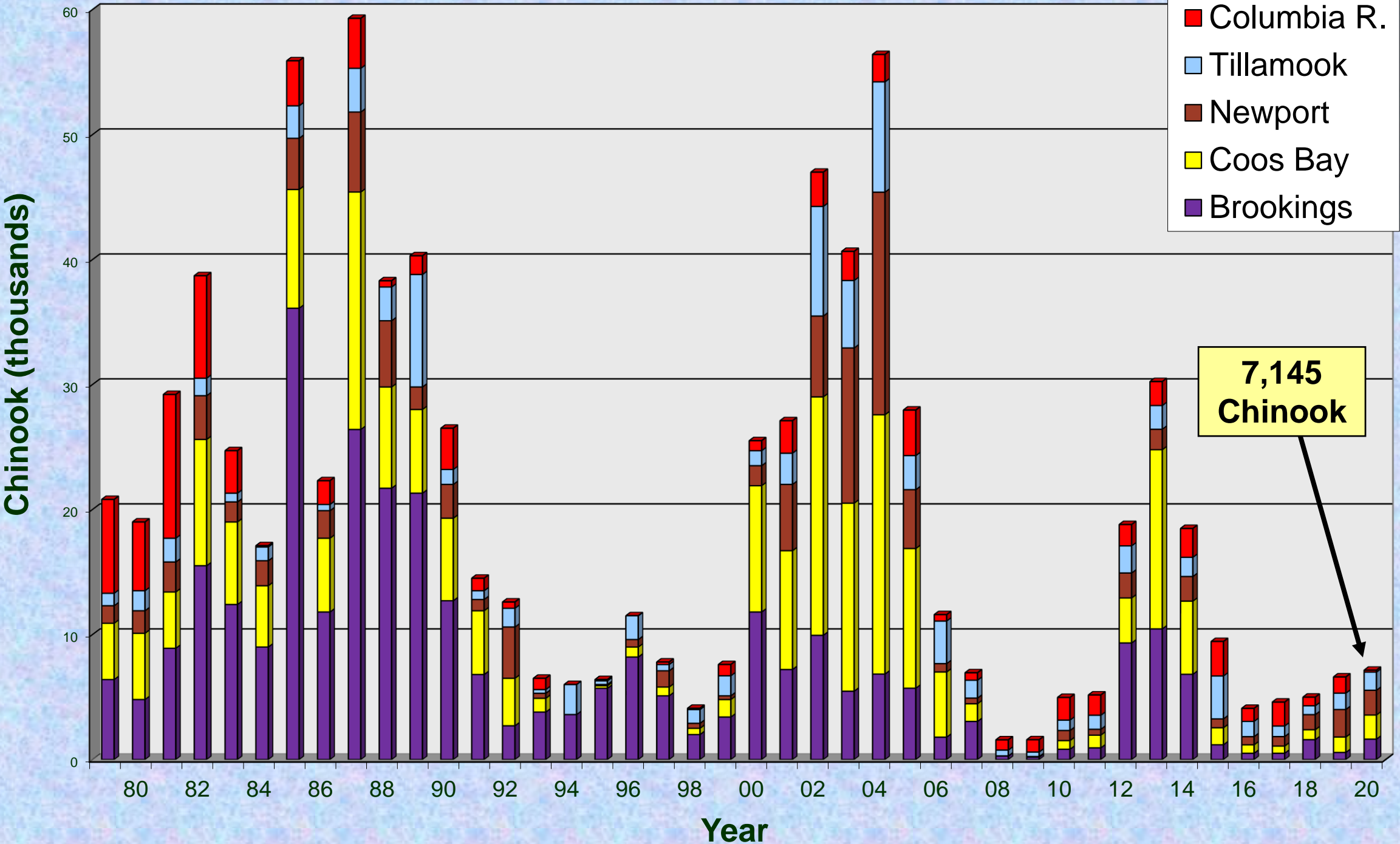
Ocean Recreational Salmon Angling Effort by Area



Ocean Recreational Coho Salmon Landings by Area

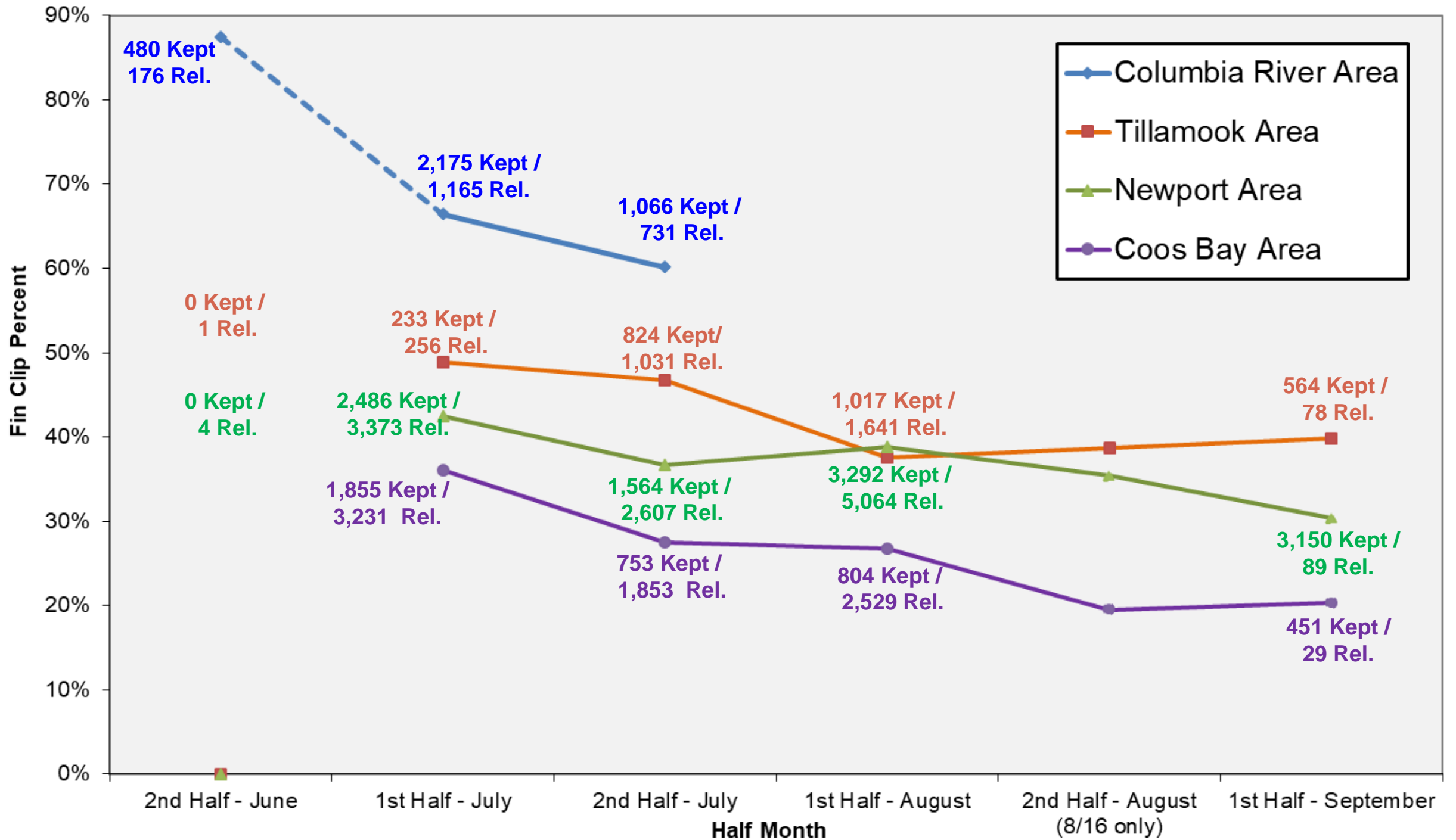


Ocean Recreational Chinook Salmon Landings by Area



Oregon Recreational Ocean Coho Salmon Mark Rate In Half Month Increments by Catch Area, 2020

(Total reported released Coho used during selective periods to estimate non-marked Coho)



- Mark rates displayed graphically calculated by summing dockside interview data across all ports within the catch area and for the dates listed. Numbers kept and numbers released displayed on chart are from interviews expanded for sampling rate and summed across ports within the catch area.


2020 Observed and Forecast Coho Ad-clip Rates (Forecast Rates 2020/2021):	Columbia River Ocean Catch Area	Tillamook Ocean Catch Area	Newport Ocean Catch Area	Coos Bay Ocean Catch Area	Brookings Ocean Catch Area
NoF: 6/29-30 SoF: 6/27-30	<u>88%</u> (60% / 78%)	<u>0%</u> (55% / 72%)	<u>0%</u> (52% / 67%)	<u>0%</u> (41% / 61%)	NA (35% / 58%)
All: 7/1-15	66% (59% / 81%)	49% (53% / 67%)	42% (49% / 63%)	36% (39% / 58%)	NA (25% / 48%)
NoF: 7/16-26 SoF: 7/16-31	60% (59% / 81%)	47% (53% / 67%)	37% (49% / 63%)	27% (39% / 58%)	NA (25% / 48%)
SoF: 8/1-15	NA (58% / 72%)	38% (48% / 63%)	39% (46% / 62%)	27% (28% / 53%)	NA (23% / 43%)
SOF: 8/16	NA (58% / 72%)	39% (48% / 63%)	35% (46% / 62%)	19% (28% / 53%)	NA (23% / 43%)
SOF: 9/4-5	NA (58% / 74%)	40% (33% / 62%)	30% (34% / 56%)	20% (16% / 43%)	NA (7% / 13%)


- Underlined and italicized 2020 observations are low sample sizes for the time and area (<50 observations).
- 2020 Observed mark rates are calculated by summing dockside interview data across all ports within the catch area and for the dates listed.

Ocean Catch Area	Coho Released During 2020 Mark Selective Coho Seasons	Coho Released During 2020 Non Selective Coho Seasons	Coho Released Outside of 2020 Coho Seasons	Total Coho Released During 2020 Seasons	Illegal Coho Retained Out of Season in 2020
Columbia	2,072	NA	29	2,101	0
Tillamook	2,929	78	1,250	4,257	73
Newport	11,048	89	606	11,743	12
Coos Bay	7,613	29	605	8,247	2
Brookings	NA	NA	502	502	0
Total	23,662	196	2,992	26,850	87


Oregon Ocean Commercial Troll Salmon Seasons, 2020

US/Canada Border to Cape Falcon: Seasons

 **All Salmon Except Coho**
 May 6-June 28;
 Chinook Quota = 13,820
 (Leadbetter Pt. to C. Falcon Chinook Cap = 3,770)
 Landing week (Thurs-Wed) limit of 75 Chinook

 **All Salmon**
 July 1-Sept 30
 Chinook Quota = 25,499 13,820;
 Fin-clipped Coho Quota = 2,000
 Landing week (Thurs-Wed) limit: 10 marked coho


Cape Falcon to Humbug Mt.: Season


 **All Salmon Except Coho**
 April 20-May 5; May 26-31; June 4-Aug. 25;
 and Sept. 1-Oct. 31
 No Quota

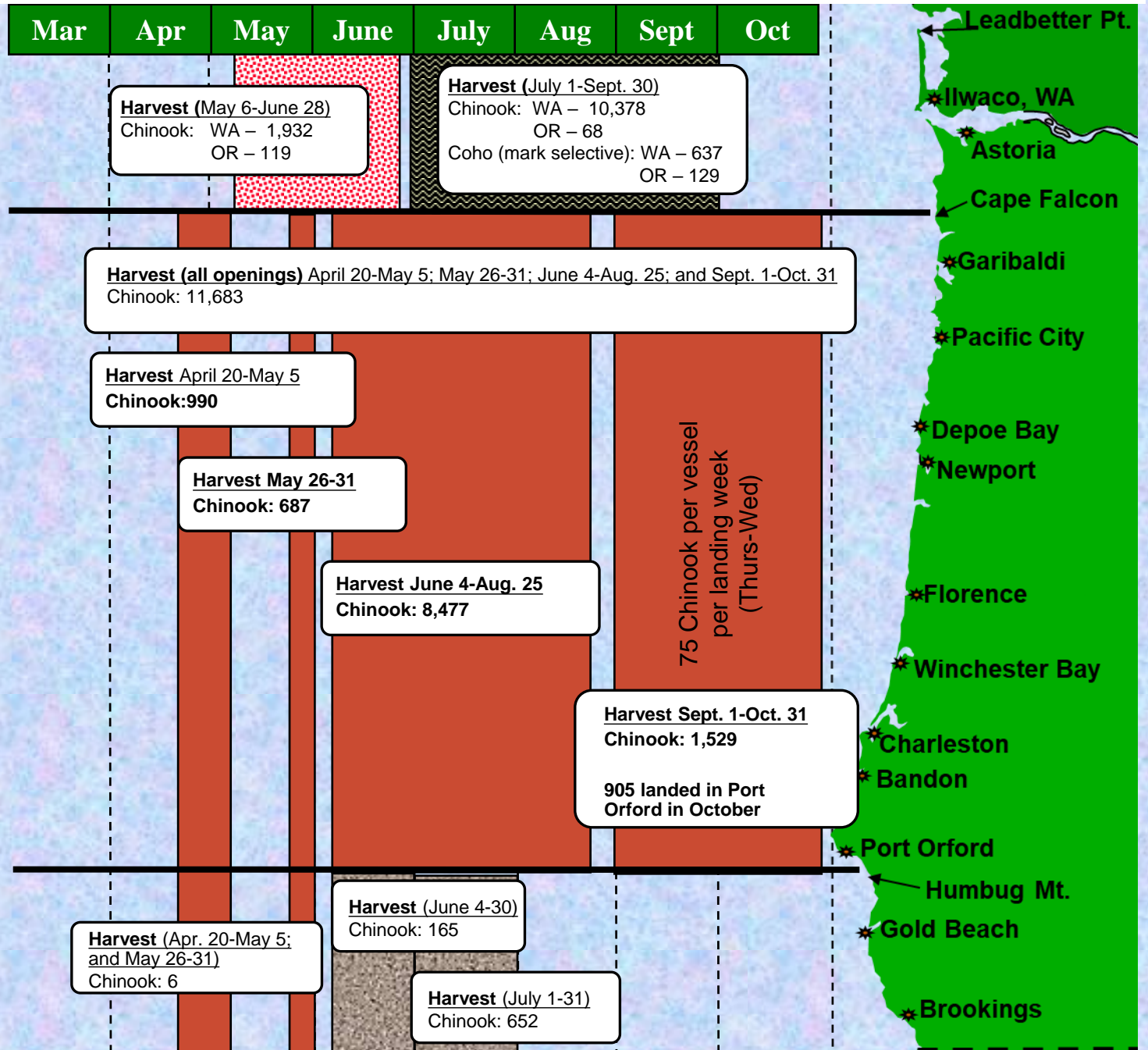
Beginning September 1: 75 Chinook per vessel
 per landing week (Thurs.-Wed.)

Humbug Mt. to OR/CA Border: Seasons

All Salmon Except Coho

 April 20-May 5; and May 26-31 (no quota)

 June 4-30 with 700 Chinook quota
 July 1-31 with **630** ~~300~~ Chinook quota
 40 Chinook per vessel per week (Thurs-Wed) in June
 and July



All salmon except coho. Vessels landing into Oregon, may only fish South of Leadbetter Pt. Landings restricted to within the open area and Garibaldi only. Must land all catch within 24 hours of any closure. Chinook 28" minimum length. All landings into Oregon must be reported within one hour of landing at (541)867-0300 ext. 271 or by email to nfalcon.trollreport@state.or.us Landing week limit of 75 Chinook per vessel. Columbia Control Zone closed to all salmon fishing.



All salmon, all coho must have a healed adipose fin clip. Vessels landing into Oregon, may only fish South of Leadbetter Pt. Landings restricted to within the open area and Garibaldi only. Must land all catch within 24 hours of any closure. Chinook 28" and coho 16" minimum length. All landings into Oregon must be reported within one hour of landing at (541)867-0300 ext. 271 or by email to nfalcon.trollreport@state.or.us Landing week (Thurs-Wed) limit of 10 coho per vessel. Columbia Control Zone closed to all salmon fishing.



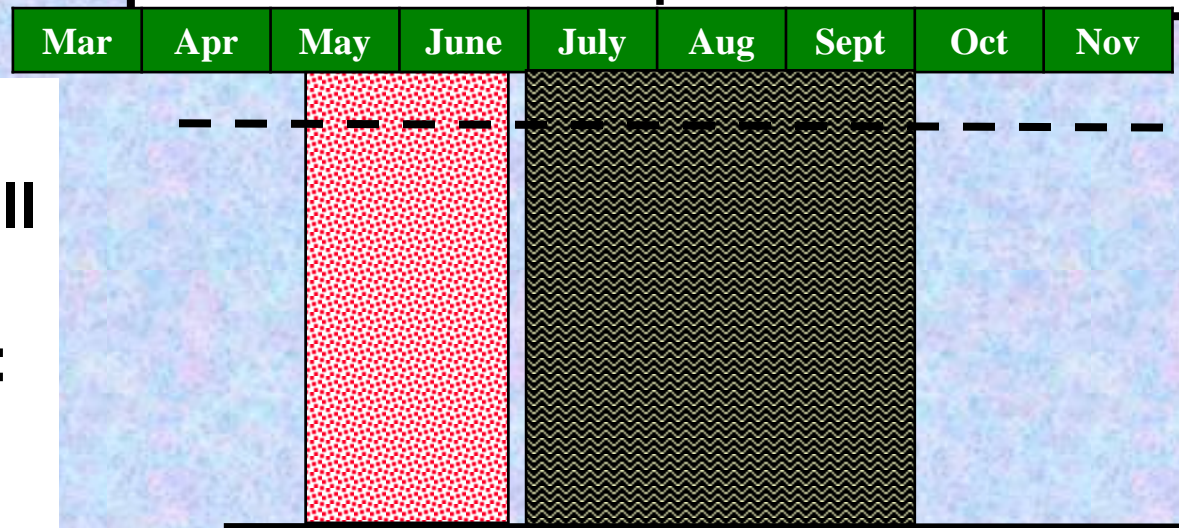
All salmon except coho. All fish must be landed into Oregon. No more than 4 spreads per wire. Chinook 28" minimum length. For the period of Sept. 1-Oct. 31: landing week (Thurs-Wed) limit of 75 Chinook per vessel.



All salmon except coho. All fish must be landed into Port Orford, Gold Beach, or Brookings within 24 hours of any closure in the fishery. No more than 4 spreads per wire. Chinook 28" minimum length. Mandatory call in within an hour of delivery or prior to transport away from port at (541)867-0300 ext. 252 or by email to KMZOR.trollreport@state.or.us Landing and possession limit of 40 Chinook per vessel per landing week (Thurs-Wed). June quota=700; and July quota= **630** ~~300~~.

Leadbetter Pt. to Cape Falcon Troll Seasons



**Oregon
Commercial Troll
Salmon
Seasons, 2020:
North of Cape
Falcon**



Harvest (May 6-June 28)
Chinook: WA – 1,932
OR – 119

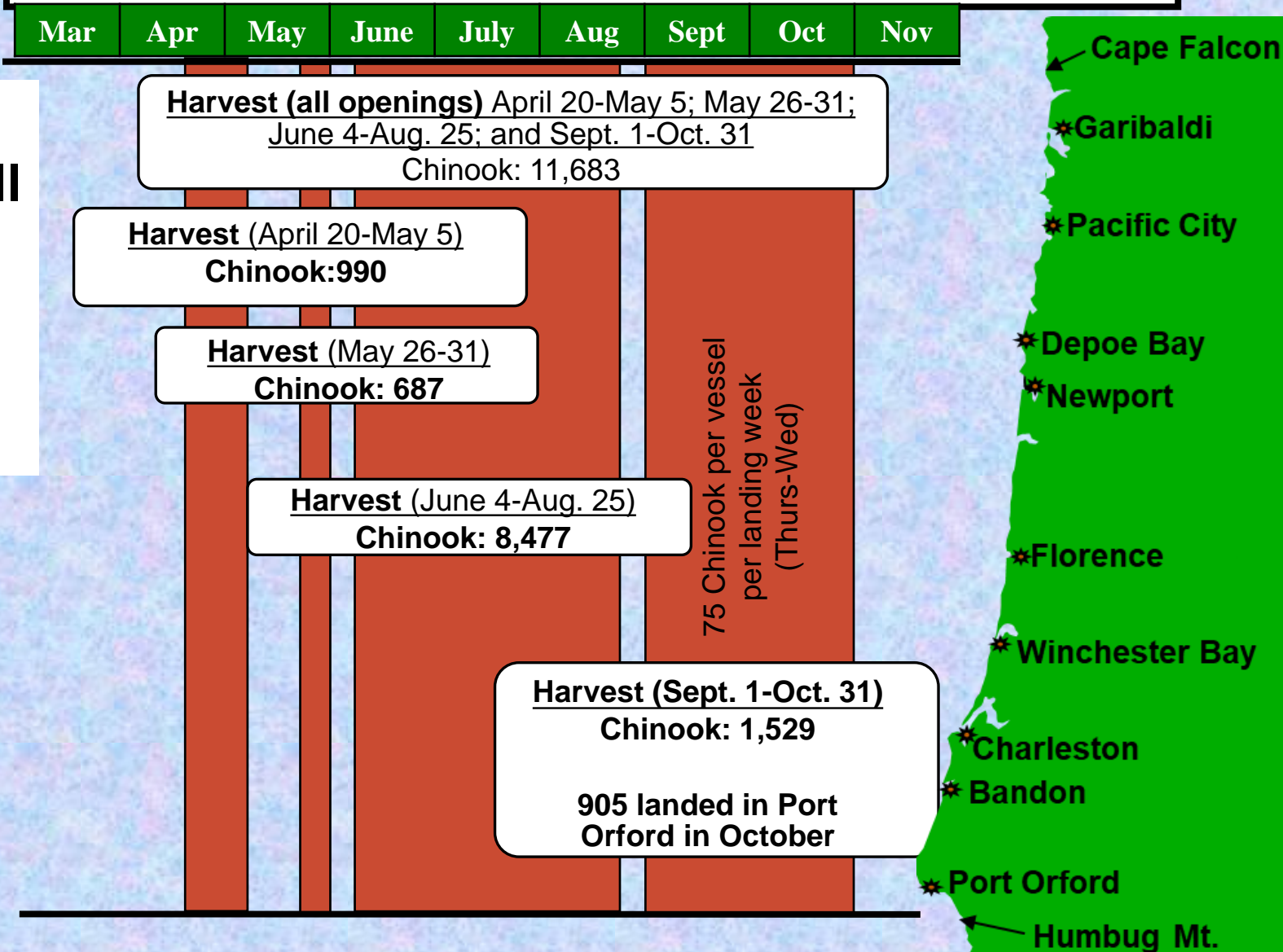
Harvest (July 1-Sept. 30)
Chinook: WA – 10,378
OR – 68
Coho (mark selective): WA – 637
OR – 129

US/Canada Border to Cape Falcon: Seasons

-  **All Salmon Except Coho**
May 6-June 28;
Chinook Quota = 13,820
(Leadbetter Pt. to C. Falcon Chinook Cap = 3,770)
Landing week (Thurs-Wed) limit of 75 Chinook
-  **All Salmon**
July 1-Sept 30
Chinook Quota = 25,499 13,820;
Fin-clipped Coho Quota = 2,000
Landing week (Thurs-Wed) limit: 10 marked coho

Cape Falcon to Humbug Mt. Commercial Troll Seasons

Oregon Commercial Troll Salmon Seasons, 2020: Cape Falcon to Humbug Mt.



Cape Falcon to Humbug Mt.: Season

● All Salmon Except Coho

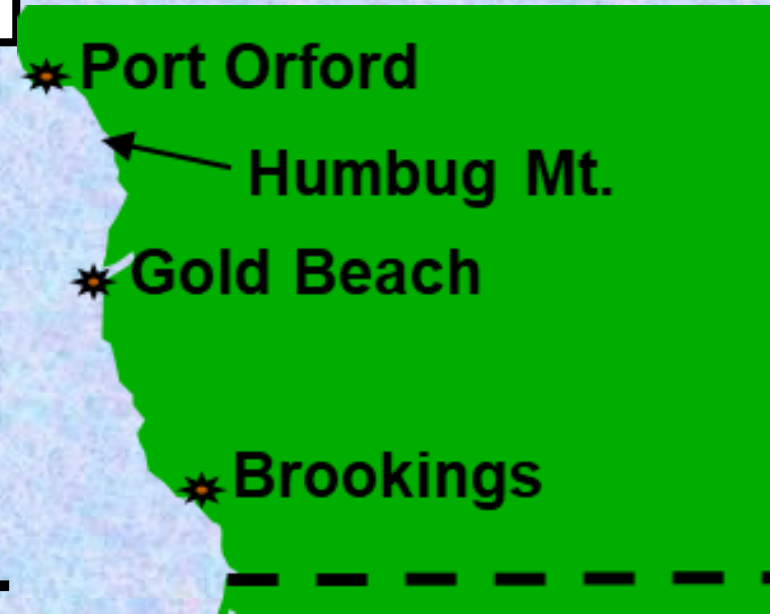
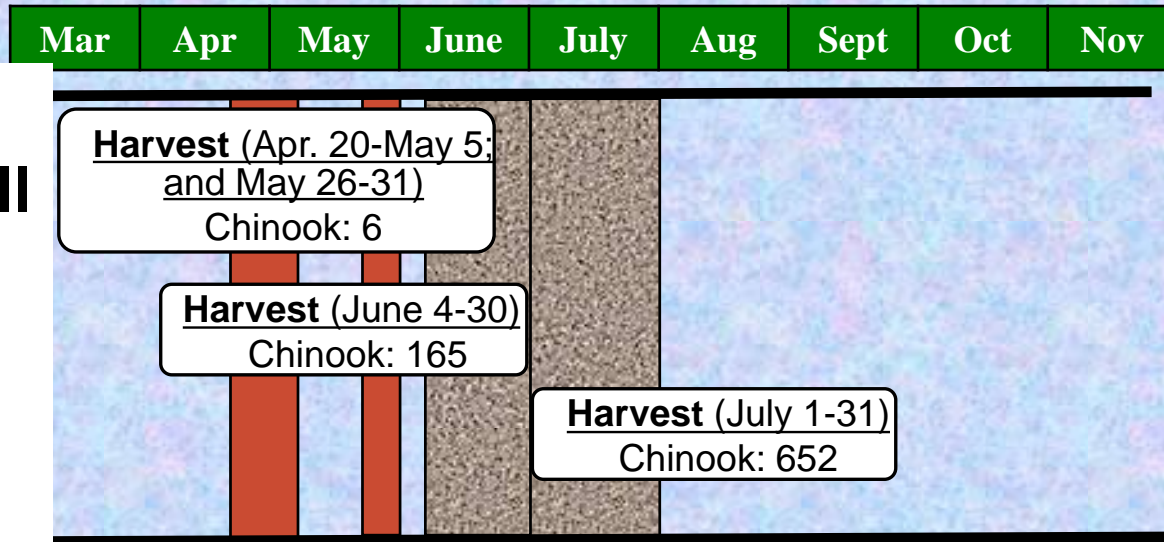
April 20-May 5; May 26-31; June 4-Aug. 25; and Sept. 1-Oct. 31

No Quota

Beginning September 1: 75 Chinook per vessel per landing week (Thurs.-Wed.)

Humbug Mt. to OR/CA Border Troll Seasons

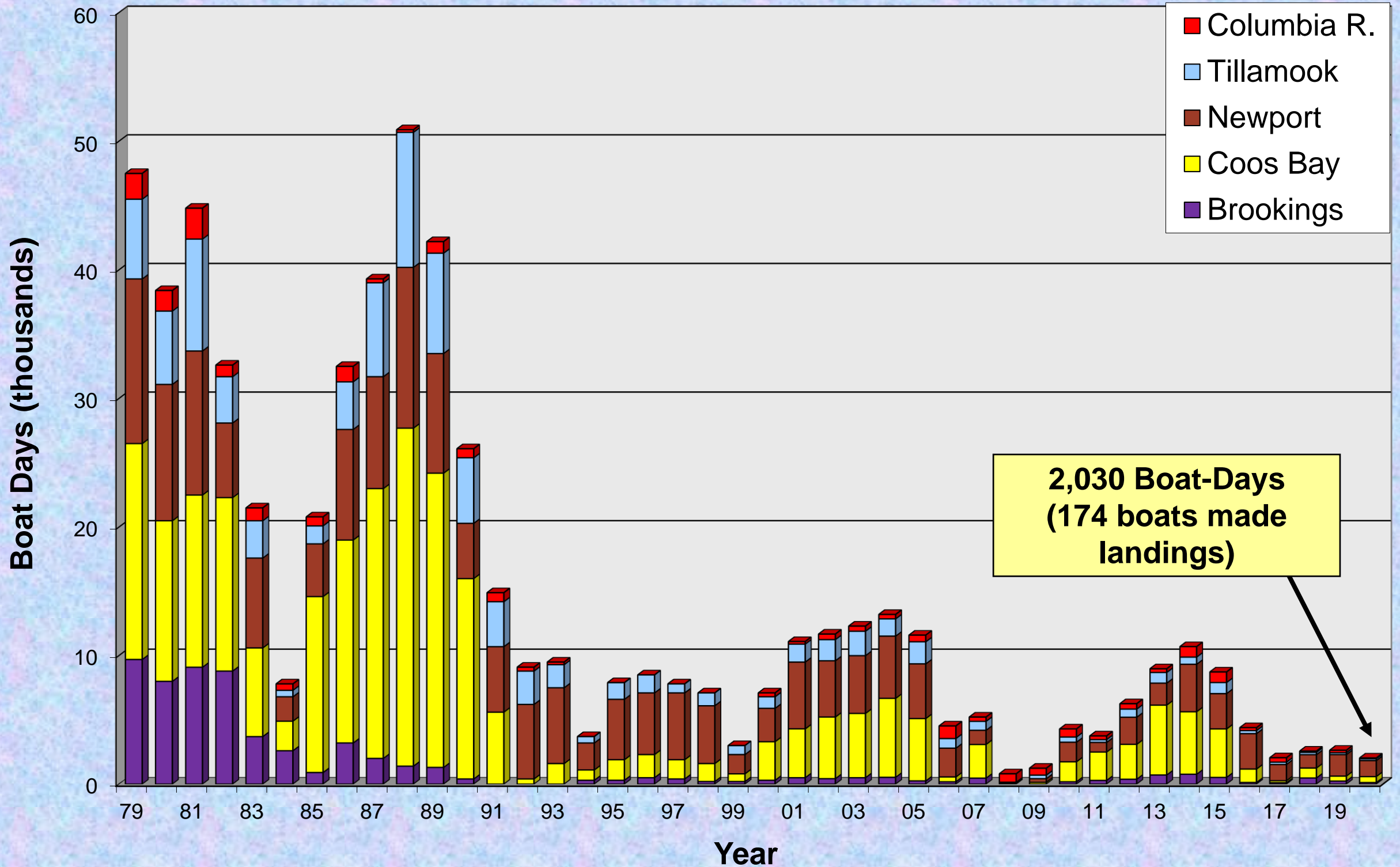
Oregon Commercial Troll Salmon Seasons, 2020: Humbug Mt. to OR/CA Border



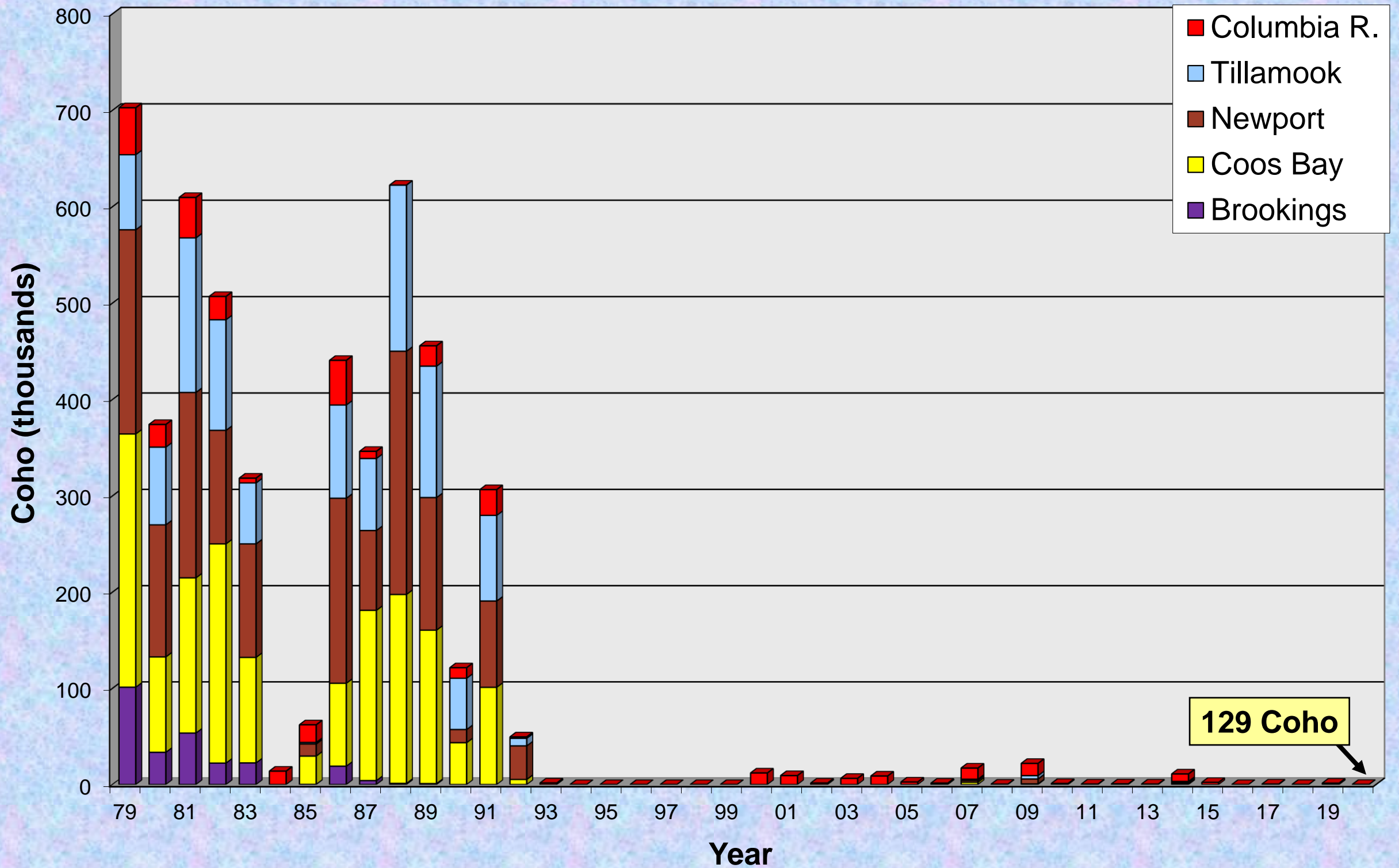
Humbug Mt. to OR/CA Border: Seasons
All Salmon Except Coho

- April 20-May 5; and May 26-31 (no quota)
- June 4-30 with 700 Chinook quota
July 1-31 with ~~300~~ 630 Chinook quota
40 Chinook per vessel per week (Thurs-Wed) in June and July

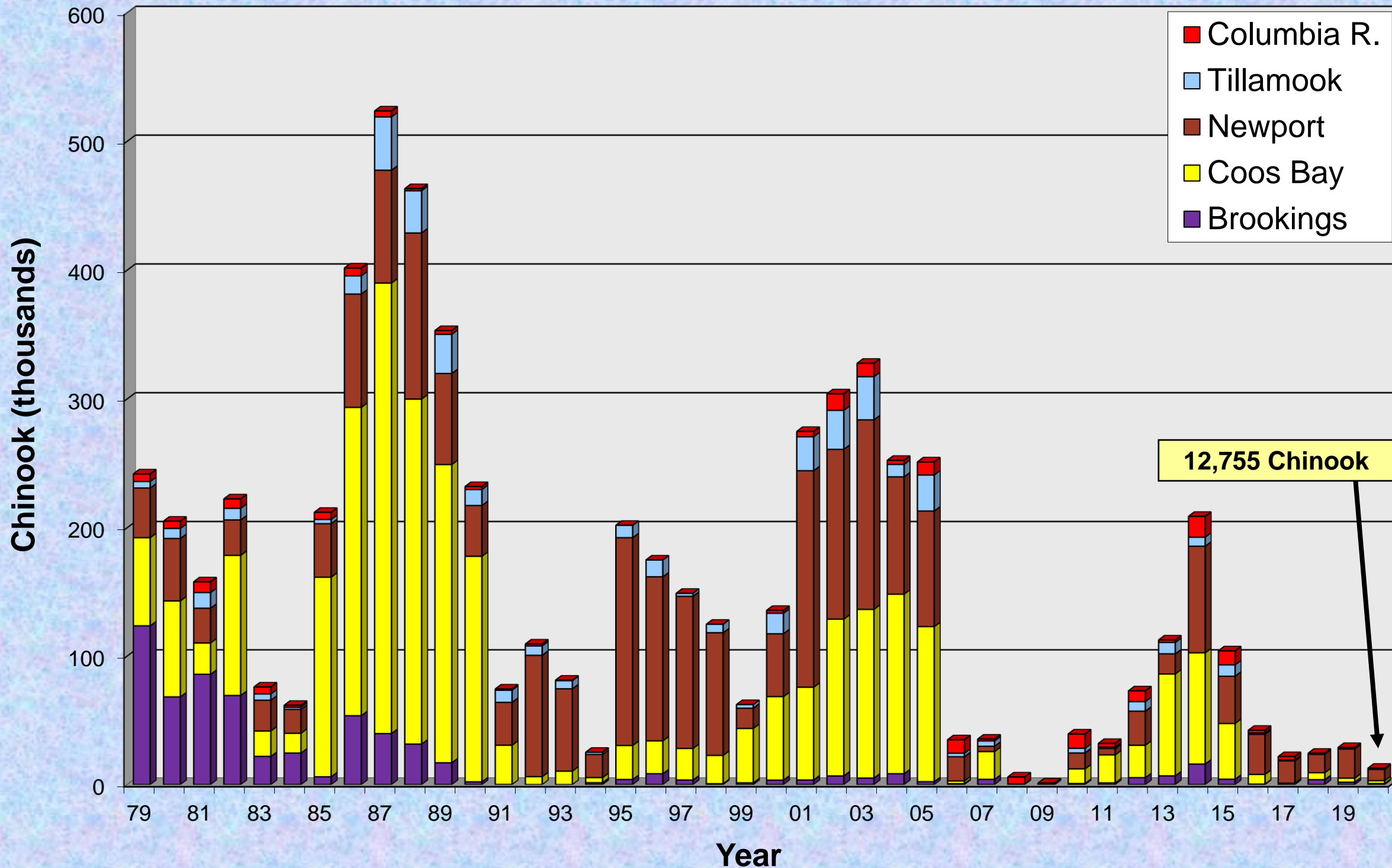
Commercial Troll Salmon Fishing Effort by Area



Commercial Troll Coho Salmon Landings by Area

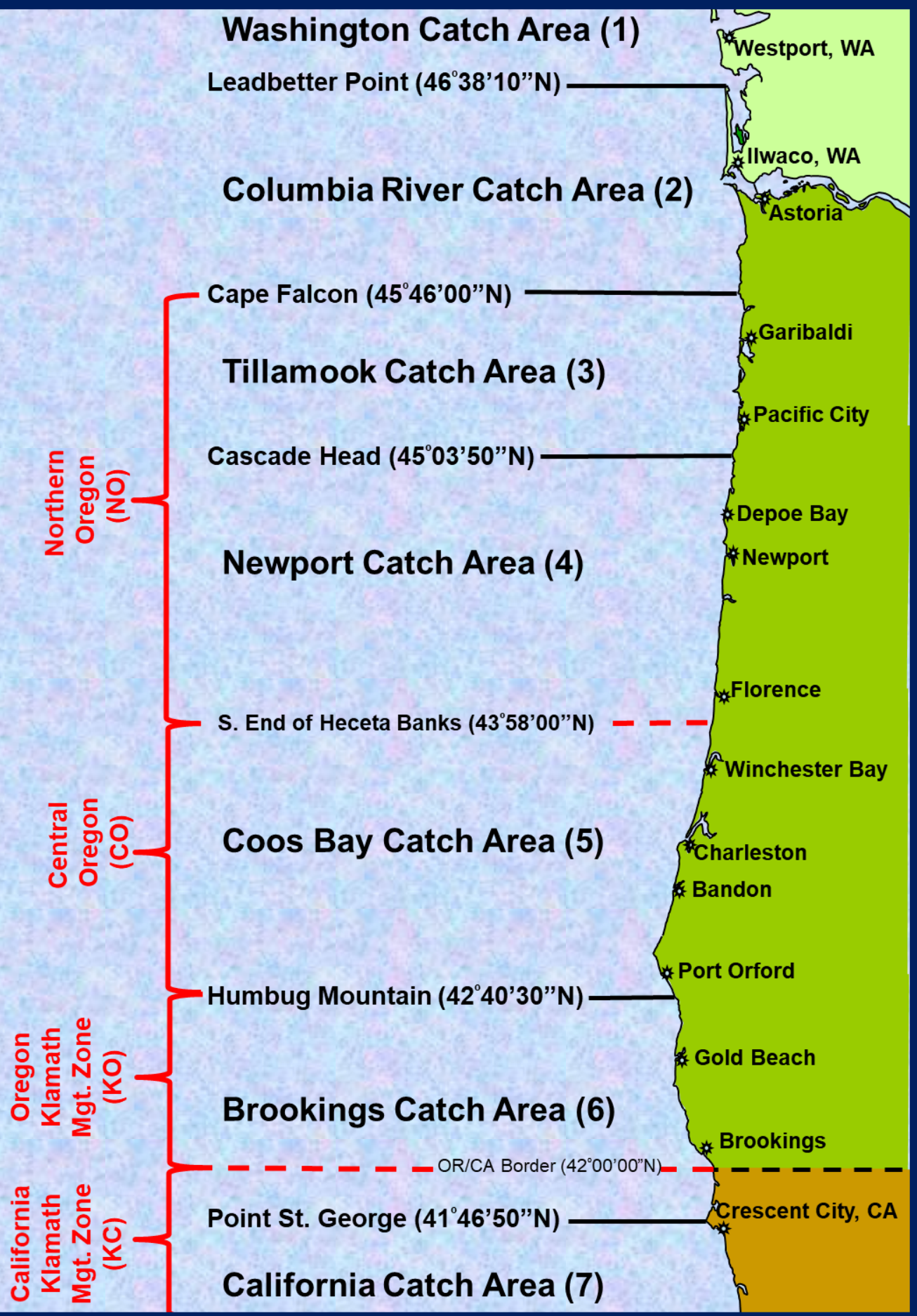


Commercial Troll Chinook Salmon Landings by Area



Oregon's Ocean Salmon Management Areas, Major Ports of Landing, and Klamath Management Zone Designations

Klamath Chinook Management Zone Designations



Review of 2020 Salmon Spawner Escapements and 2021 Coho and Chinook Abundance Forecasts

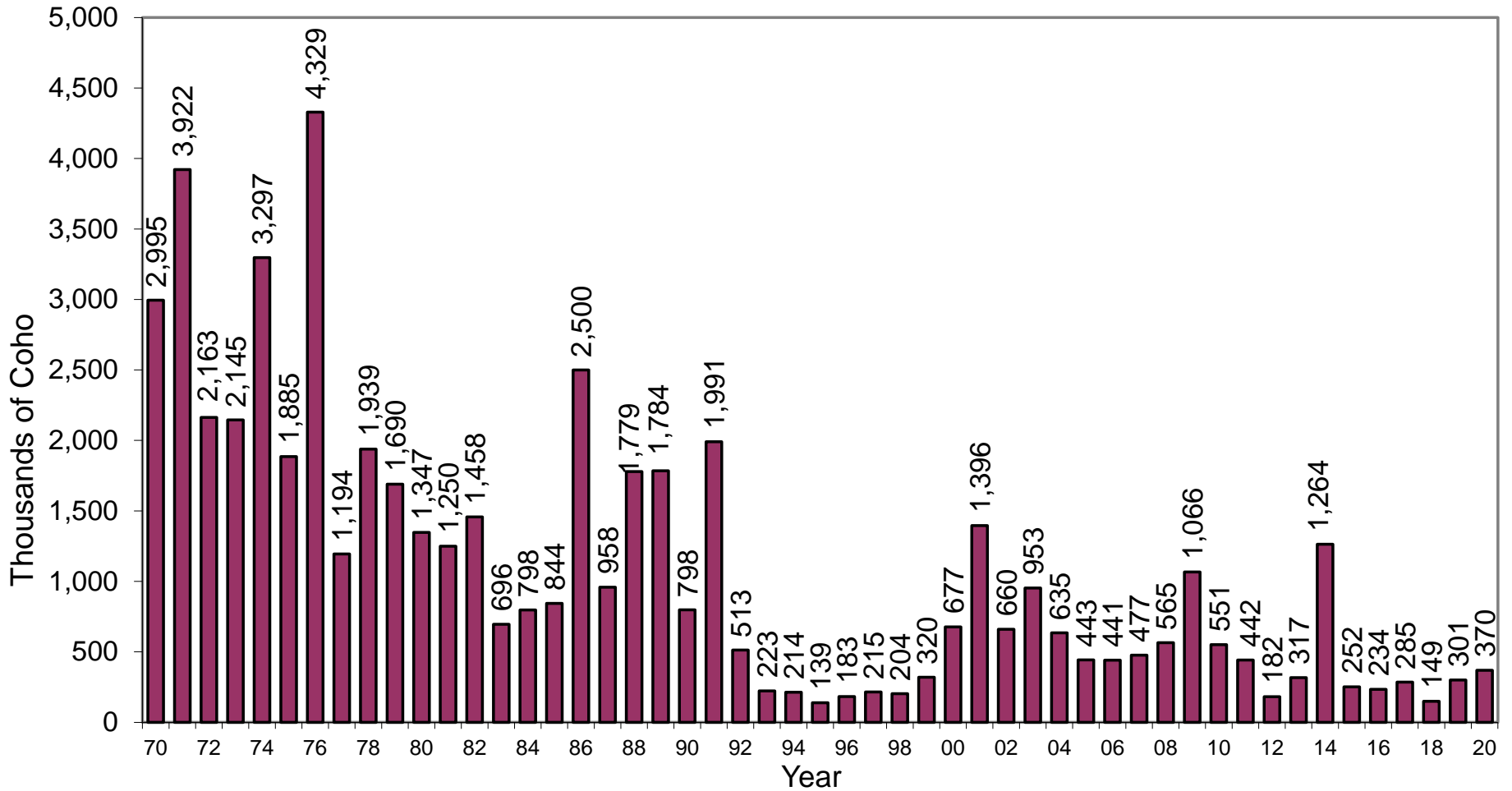
2021 Ocean Fishery Process Schedule

February 25	Ocean Salmon Industry Group Meeting * 2021 Forecasts * 2021 Salmon season discussions	Locations/Times TBD; teleconference or virtual anticipated
February 25	CDFW Public Meeting * 2021 Forecasts * 2021 Salmon season discussions	
February 26	WDFW Public Meeting * 2021 Forecasts * 2021 Salmon season discussions	
March 2-5, 8-11	Pacific Fishery Management Council * Adopt 2021 ocean salmon alternatives for public review	
March 17	North of Falcon I (Public Meeting) * Ocean/Puget S./Col. R. area salmon season negotiations	
March 19	Oregon Fish and Wildlife Commission * Ocean Salmon (informational)	
March 23	PFMC Public Options Hearing - Washington * Public input on 2021 season alternatives	
March 23	PFMC Public Options Hearing - California * Public input on 2021 season alternatives	
March 24	PFMC Public Options Hearing - Oregon * Public input on 2021 season alternatives	
March 31	North of Falcon (Public Meeting) * Ocean and Columbia River	
April 6-9, 12-15	Pacific Fishery Management Council * Adopt 2021 ocean salmon fishery regulations	
April 23	Oregon Fish and Wildlife Commission * Adopt state waters ocean salmon fishery regulations	

Review of 2020 Salmon Spawning Escapements and Abundance

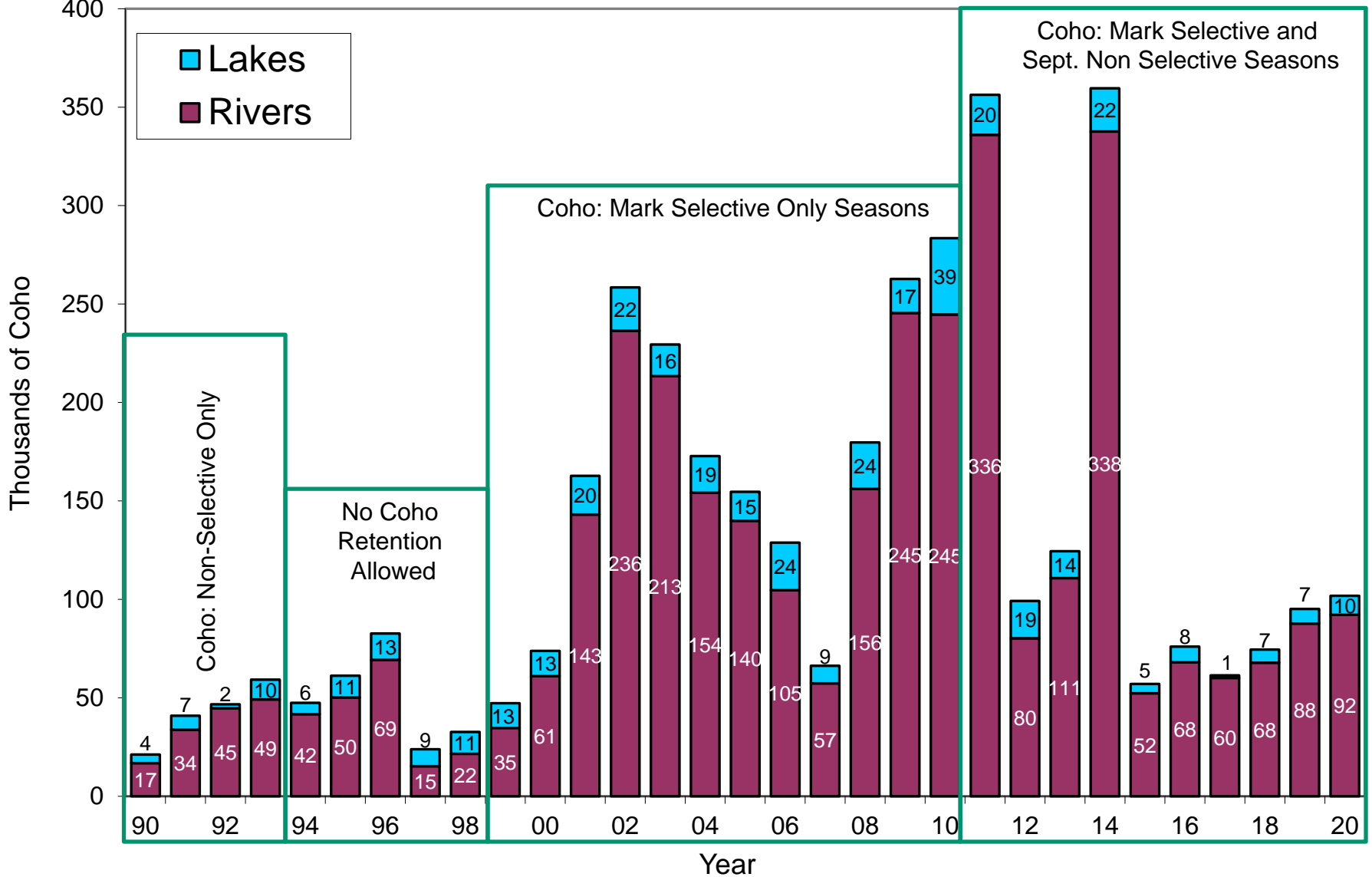
- Oregon Production Index (OPI) Coho
- Oregon Coastal Natural (OCN)
- Lower Columbia River Natural (LCN)
- Columbia River Chinook
- Klamath River Fall Chinook
- Sacramento River Fall Chinook

Oregon Production Index Area Hatchery Coho Abundance Estimates, 1970-2020



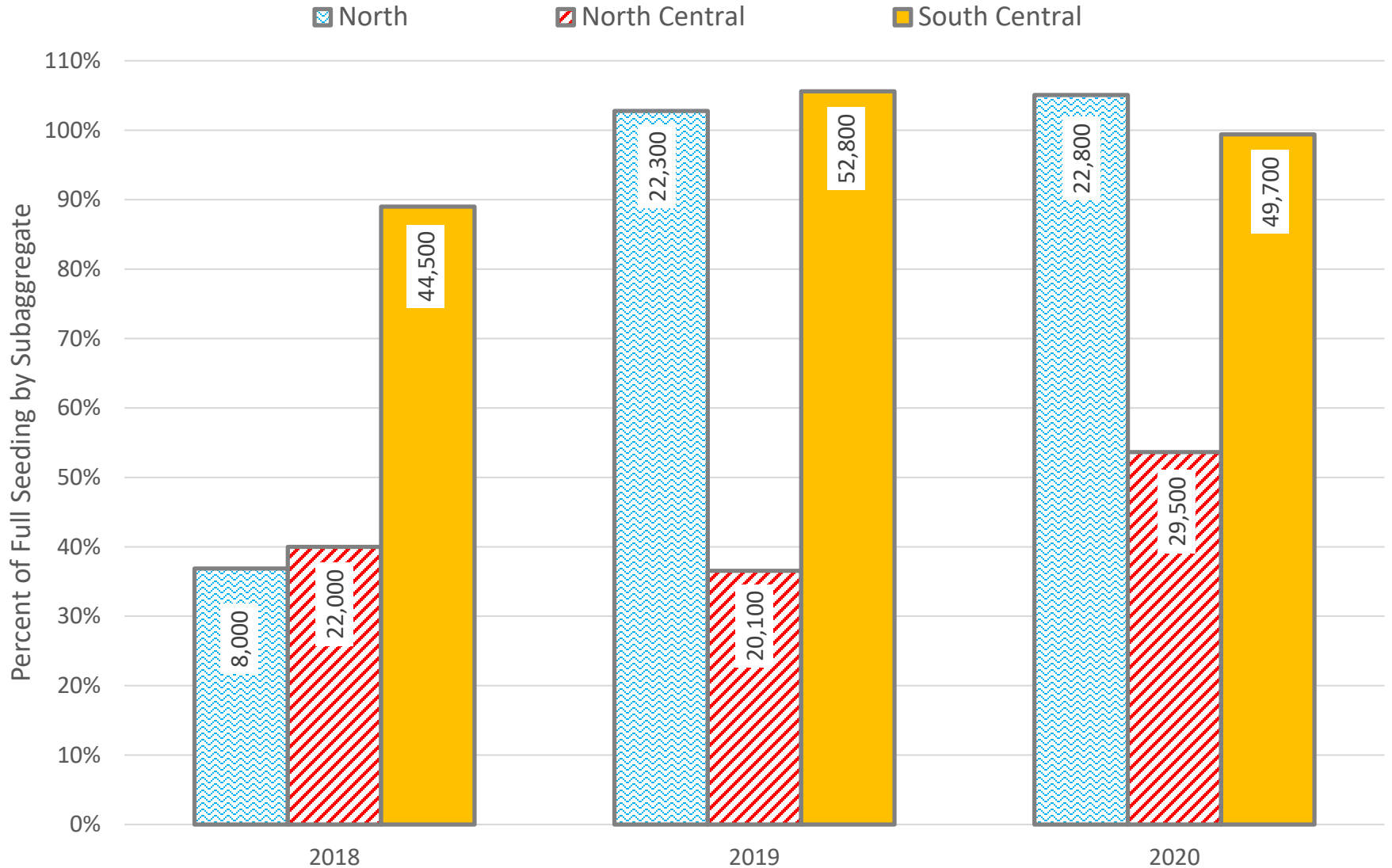
OCN Coho Spawner Escapement Rivers and Lakes, 1990-2020

(boxes show varied recreational coho seasons for Cape Falcon to Humbug Mt.)

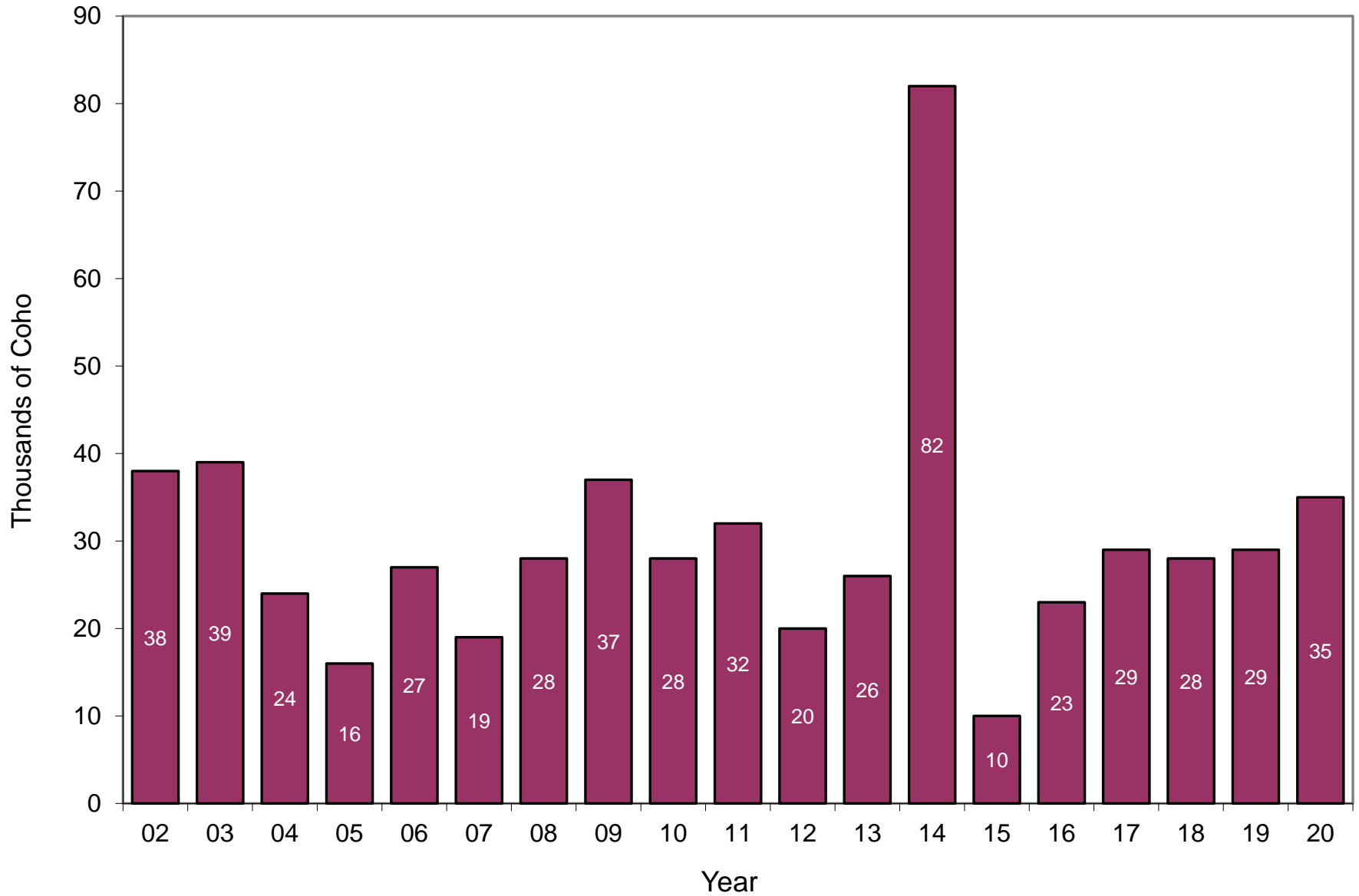


OCN Spawner Escapement by Sub-Aggregate

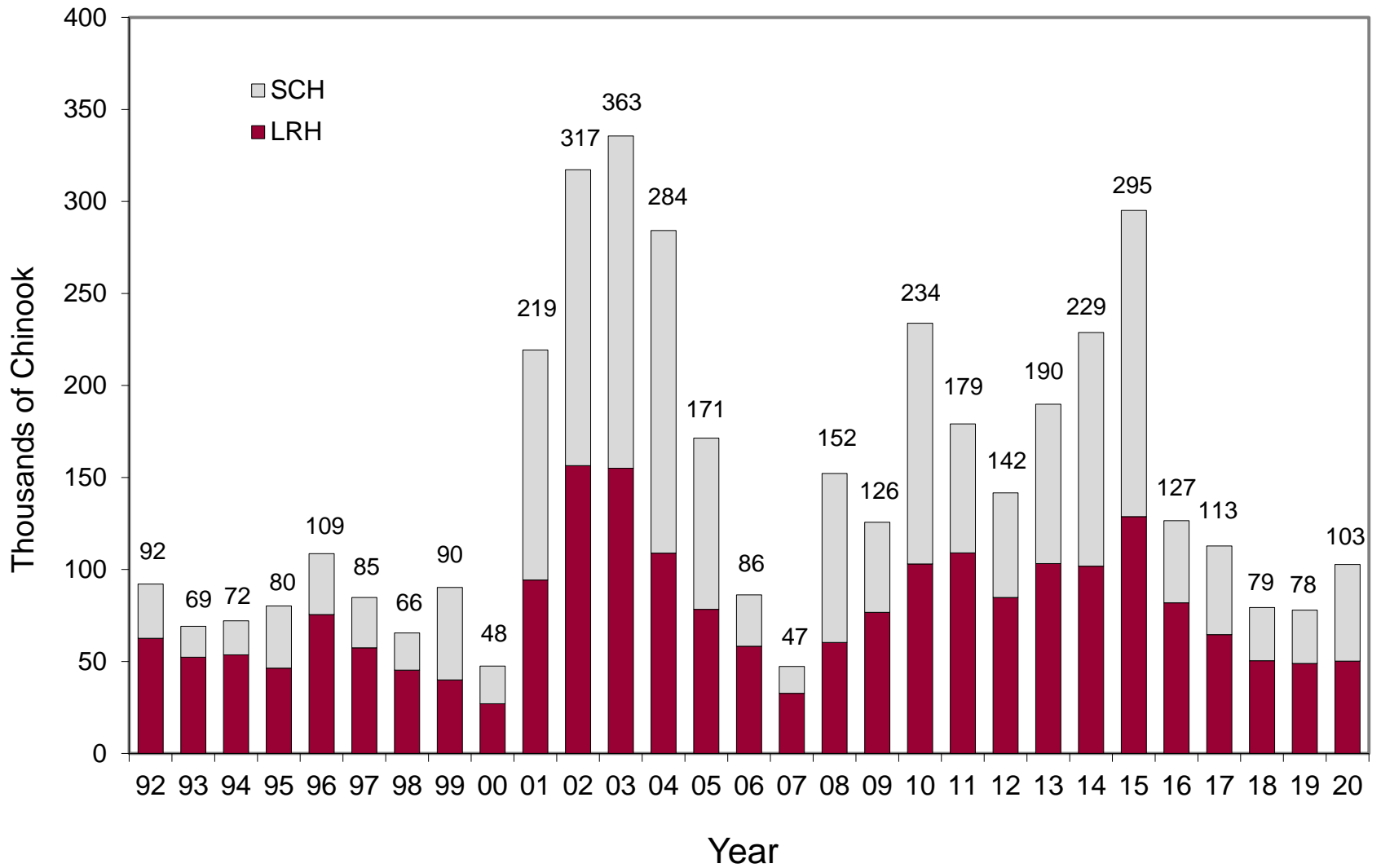
(percent of full-seeding (FS), with spawner numbers included within bars)



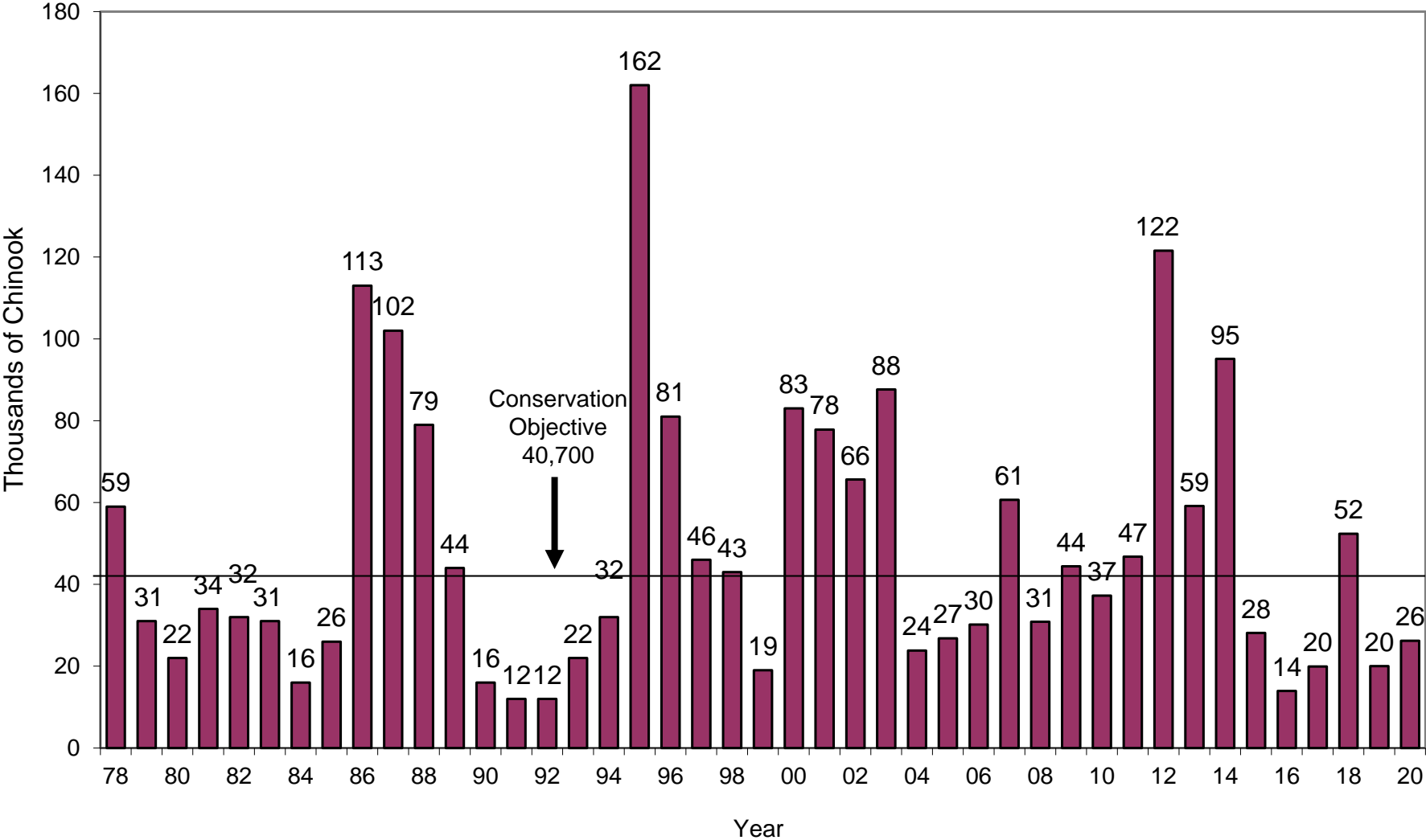
LCN Coho Escapement, 2002-2020



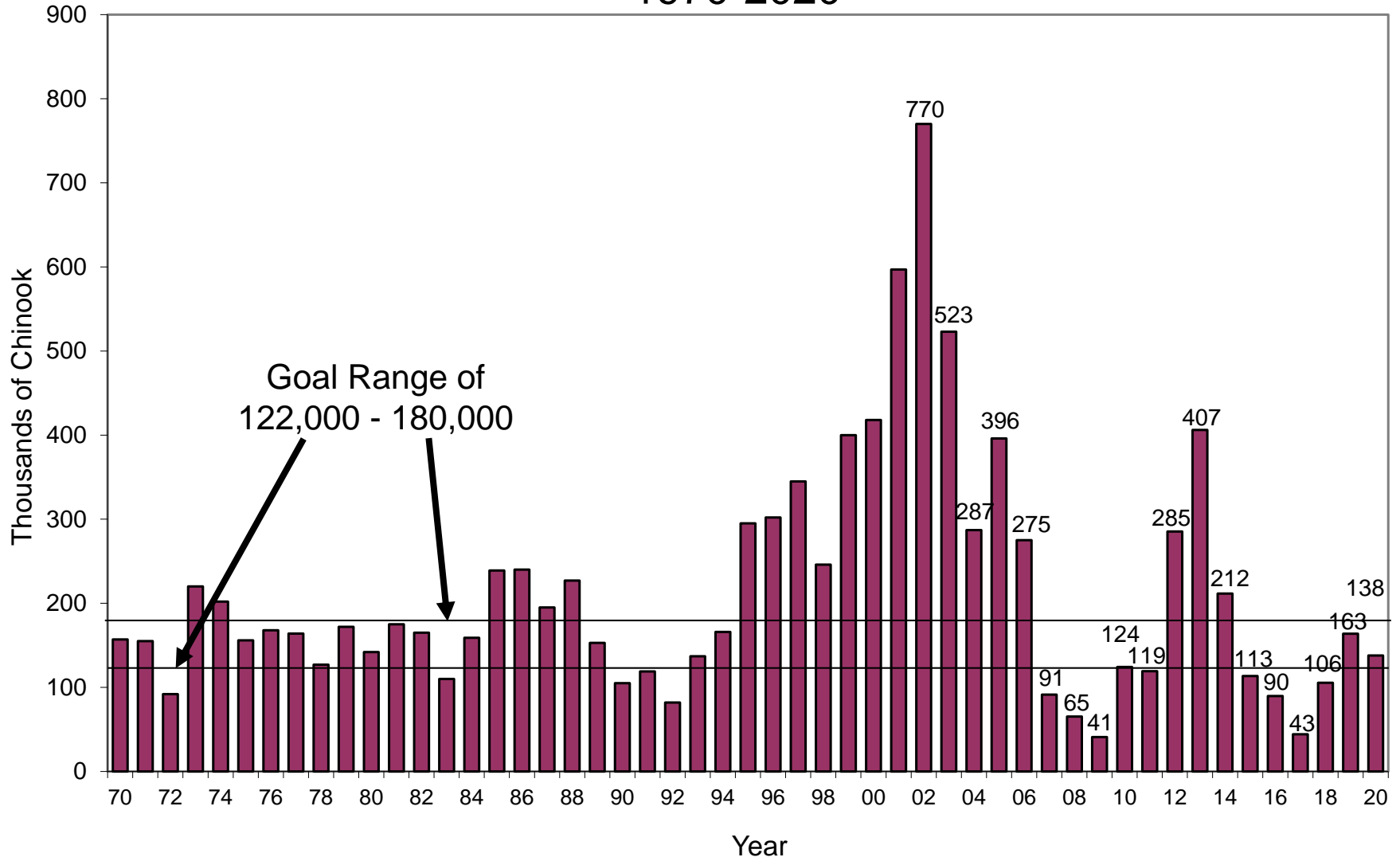
Columbia River Tule Chinook Ocean Escapement, 1992-2020



Klamath River Natural Fall Chinook Adult Spawner Escapement, 1978-2020



Sacramento River Adult Fall Chinook Escapement, 1970-2020



2020 Ocean Abundance Estimates for Select Salmon Stocks Preseason vs. Postseason

Coho	Preseason Expectations	Postseason	Post - Pre
Oregon Production Index (OPI)			
Hatchery	185,700	369,600	183,900
Oregon Coast Natural	83,000	110,000	27,000
Lower Columbia Natural	24,800	37,100	12,300

Chinook

Sacramento Index (Fall Chinook)	473,200	351,900	-121,300
Klamath	age 3 - 149,600 age 4 - 32,600	158,700 15,000	9,100 -17,600
Rogue Fall	Index -256,900	NA	
Oregon Coast North Migrating	Fair Returns	Improved survey results and returns.	

Columbia River Chinook ^{1/}

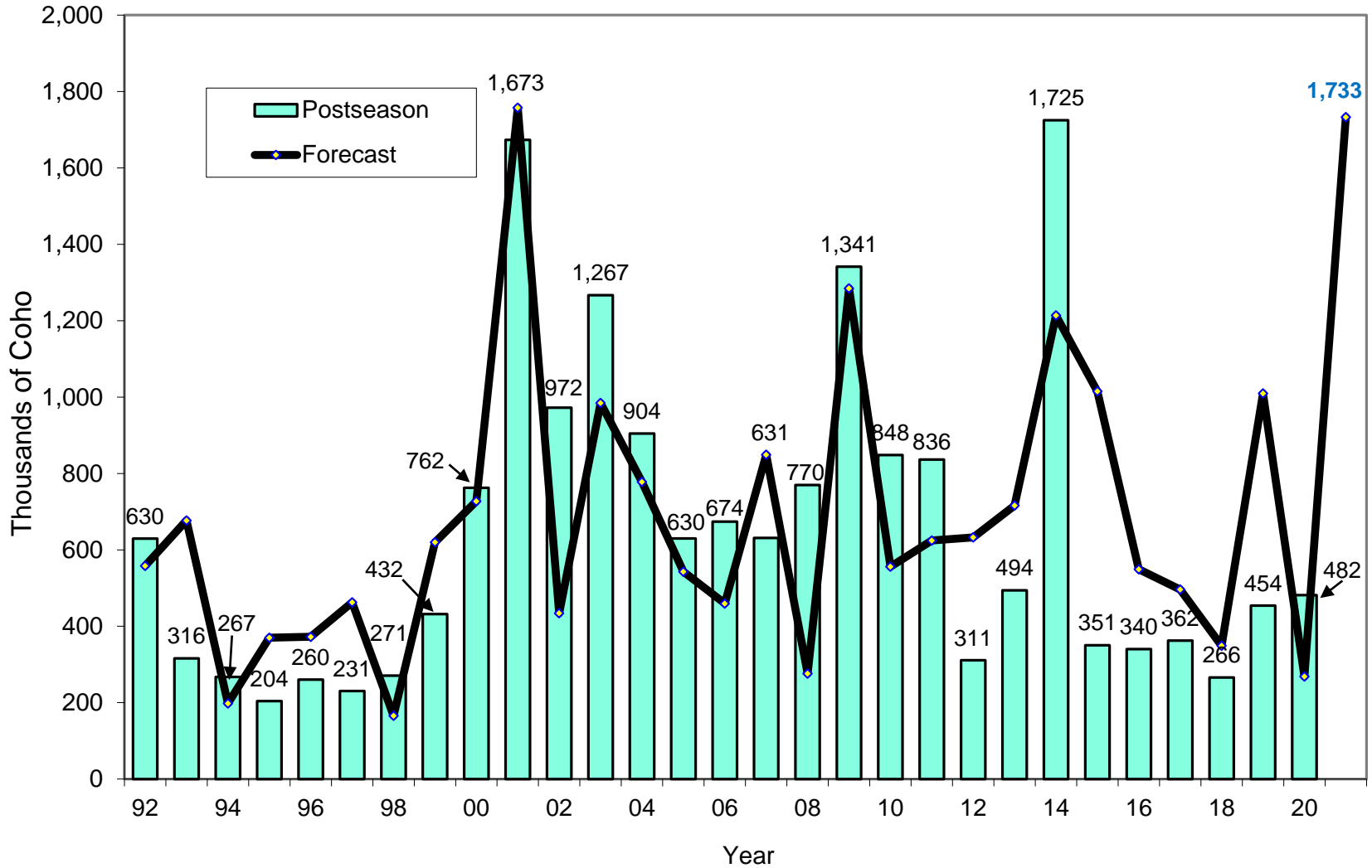
Tules	97,200	130,600	33,400
Fall Brights	333,800	444,100	110,300
Lower River Wild	19,700	35,400	15,700
Upriver Spring	81,700	81,300	-400
Willamette Spring	43,400	47,300	3,900

^{1/} Preseason expectations to the mouth of the Columbia River.

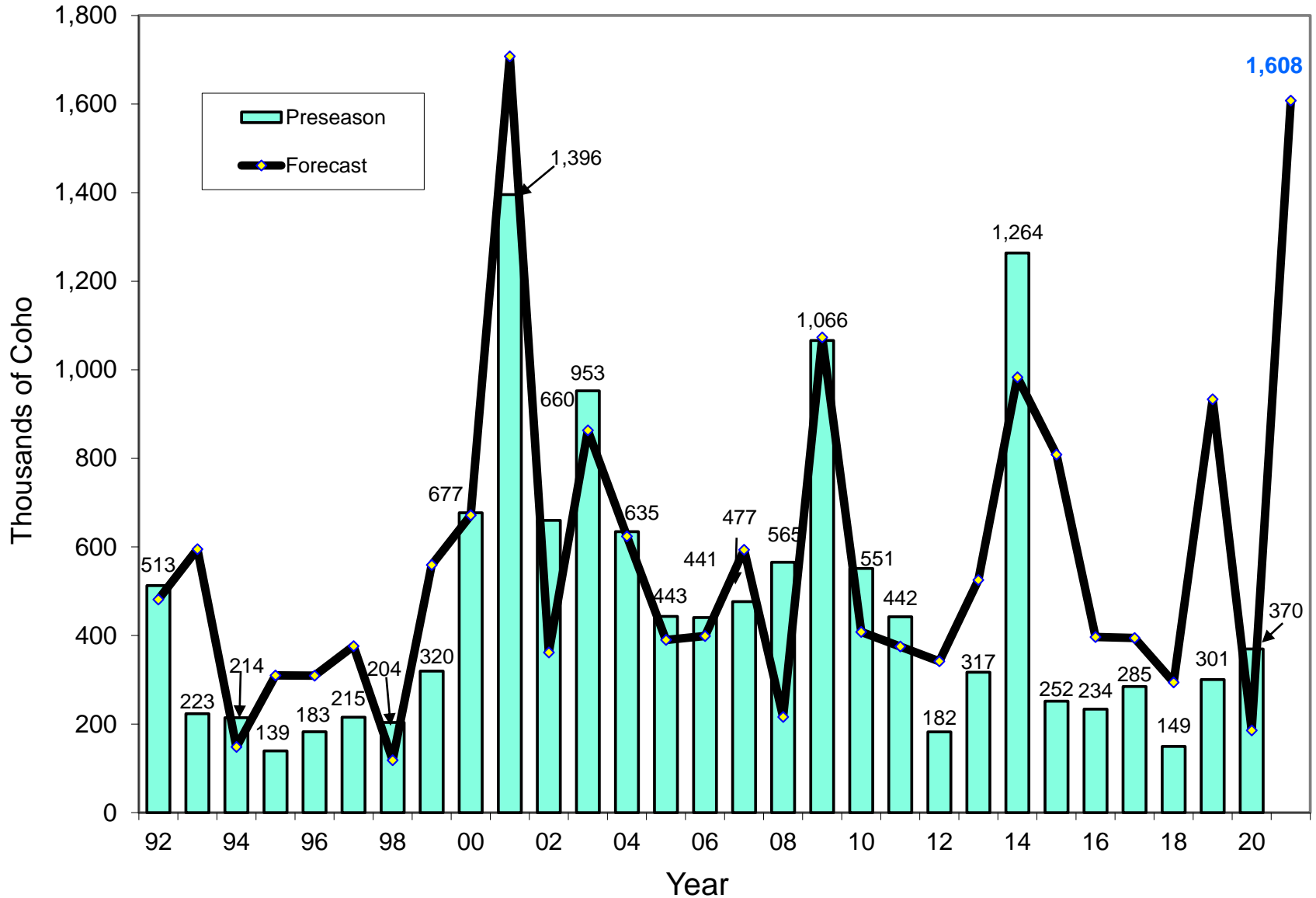
Review of 2020 Salmon Forecasts

- Oregon Production Index (OPI) Coho
 - Columbia River and Coastal Hatchery
 - Oregon Coastal Natural (OCN)
 - Lower Columbia River Natural (LCN)
- Columbia River Chinook
- Klamath River Fall Chinook
- Sacramento Index (Fall Chinook)
- 2021 Forecasts
 - Comparison to Postseason Estimates and Preseason Forecasts

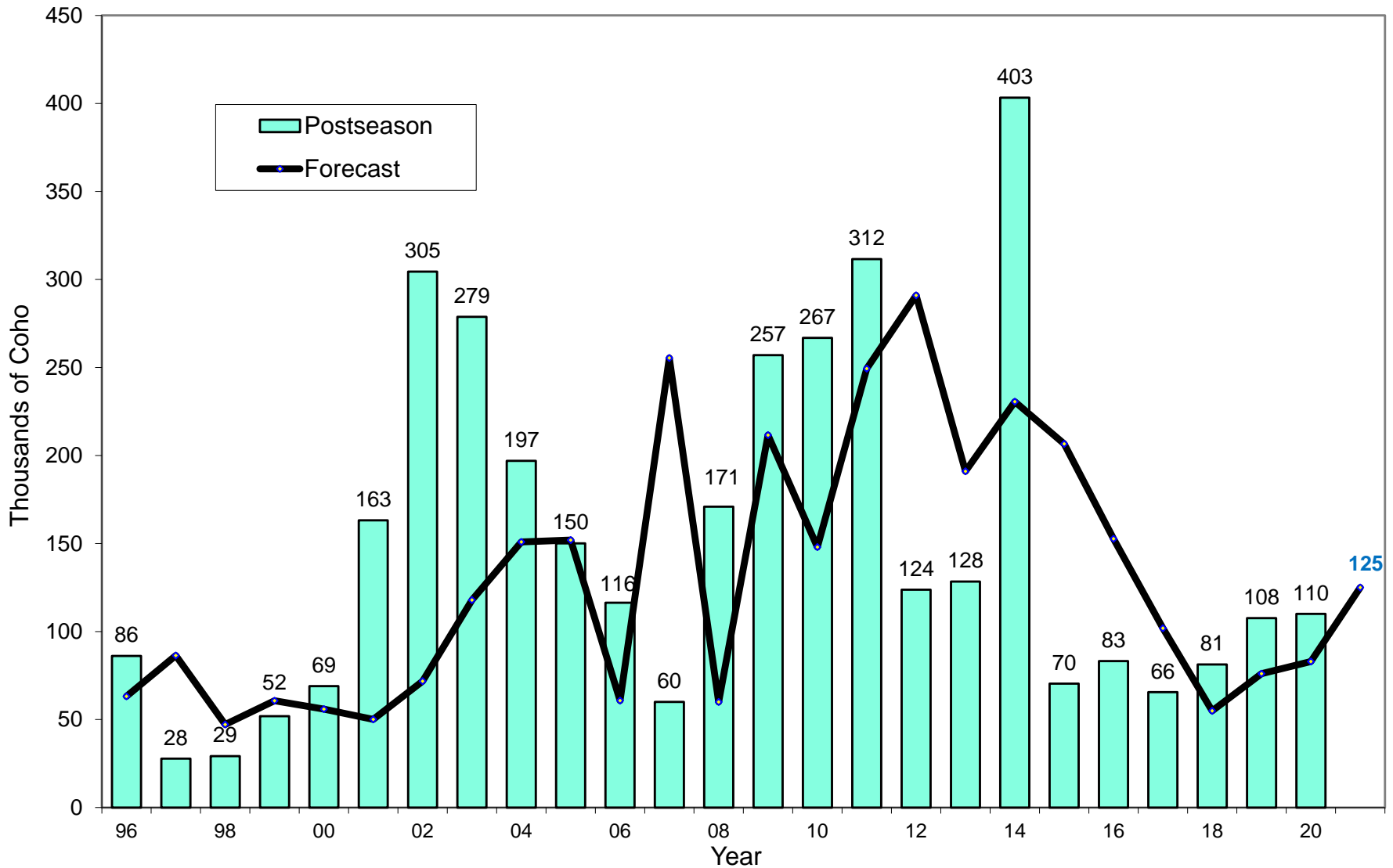
Total OPI Coho Forecast for 2021 with Preseason Forecast and Postseason Estimate Comparison



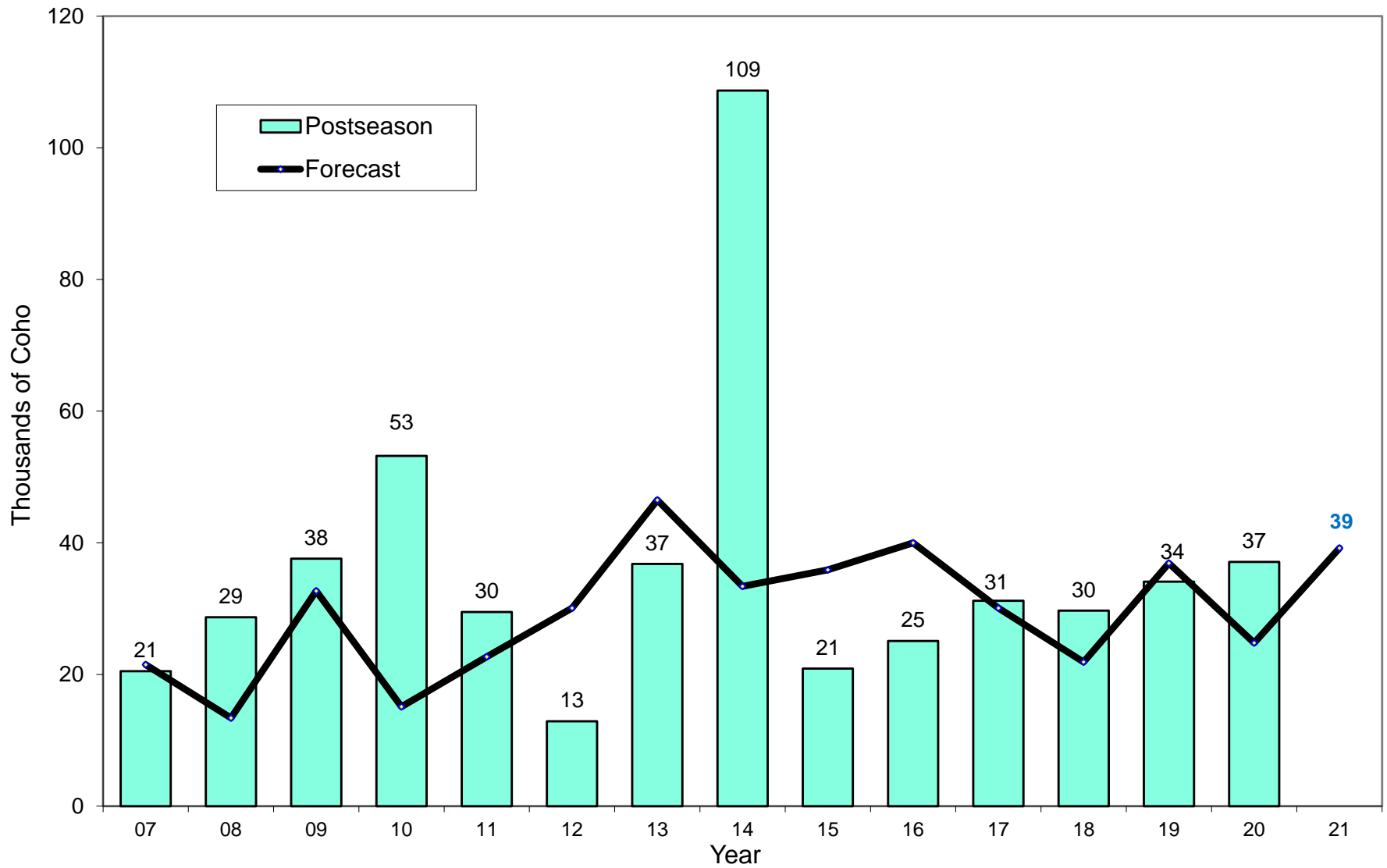
OPI Hatchery Coho Forecast for 2021 with Preseason Forecast and Postseason Estimate Comparison



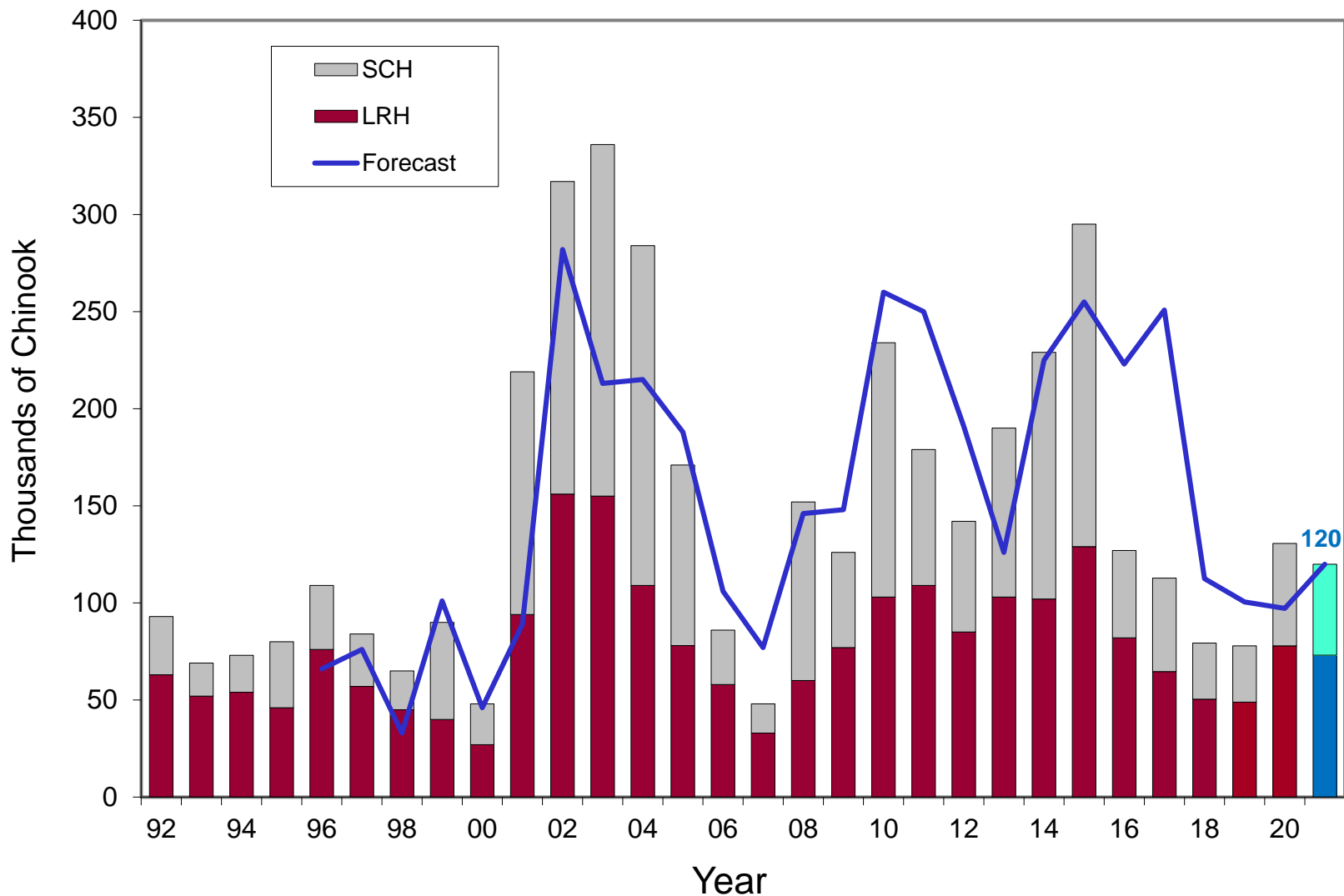
OCN Coho Forecast for 2021 with Preseason Forecast and Postseason Estimate Comparison



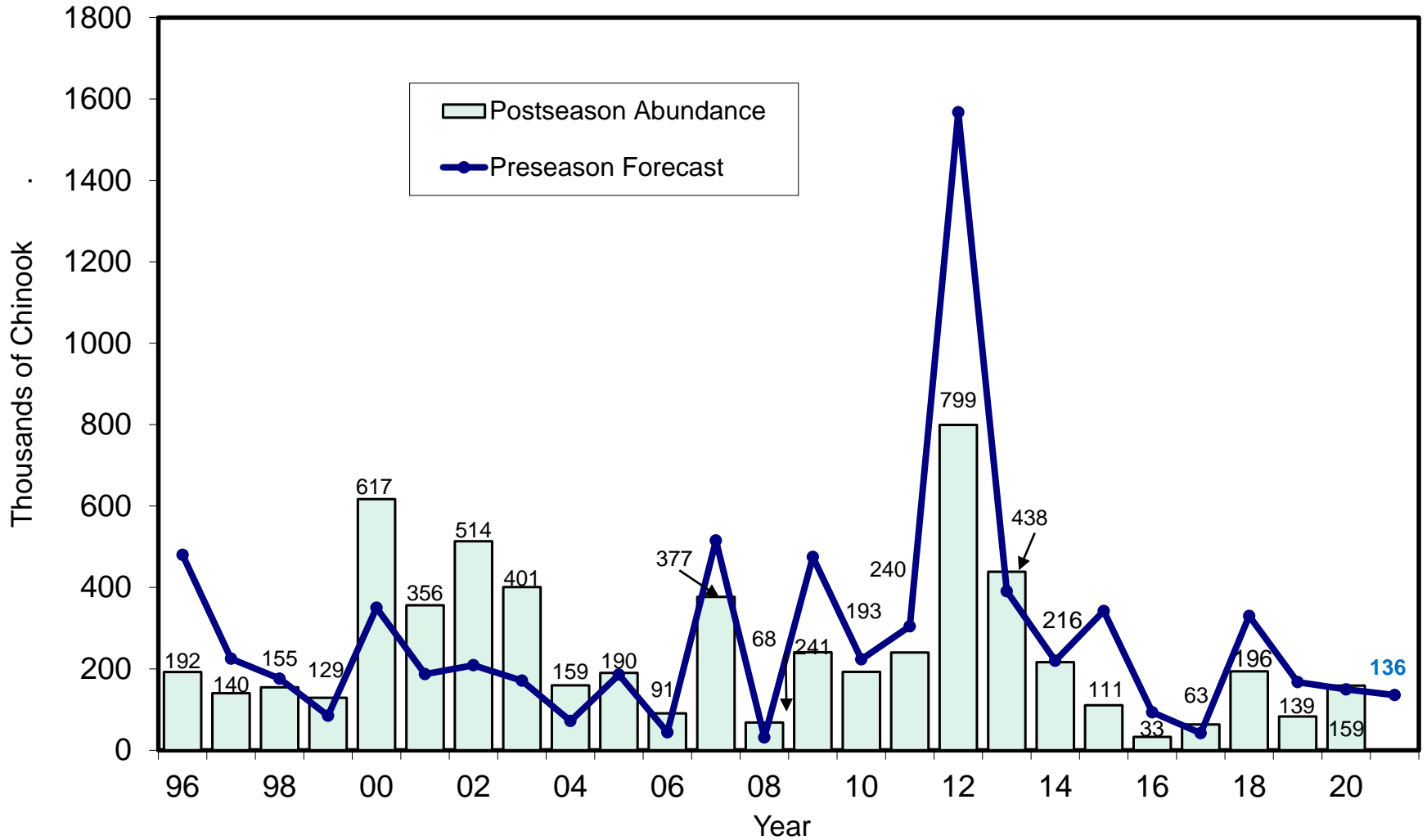
LCN Coho Forecast for 2021 with Preseason Forecast and Postseason Estimate Comparison



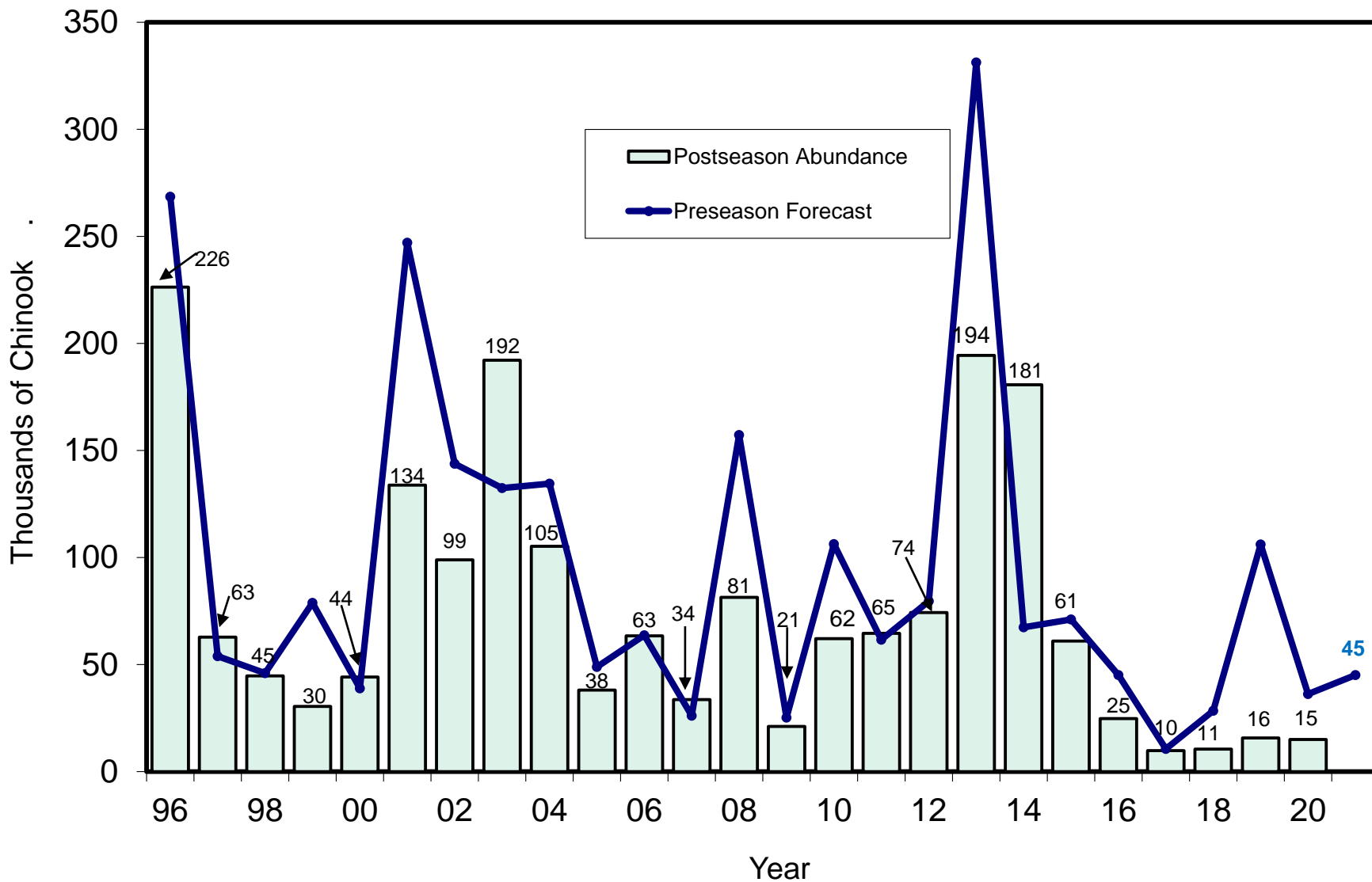
Columbia R. Tule Chinook Ocean Escapement Forecast for 2021 with Postseason Estimate and Preseason Forecast Comparison



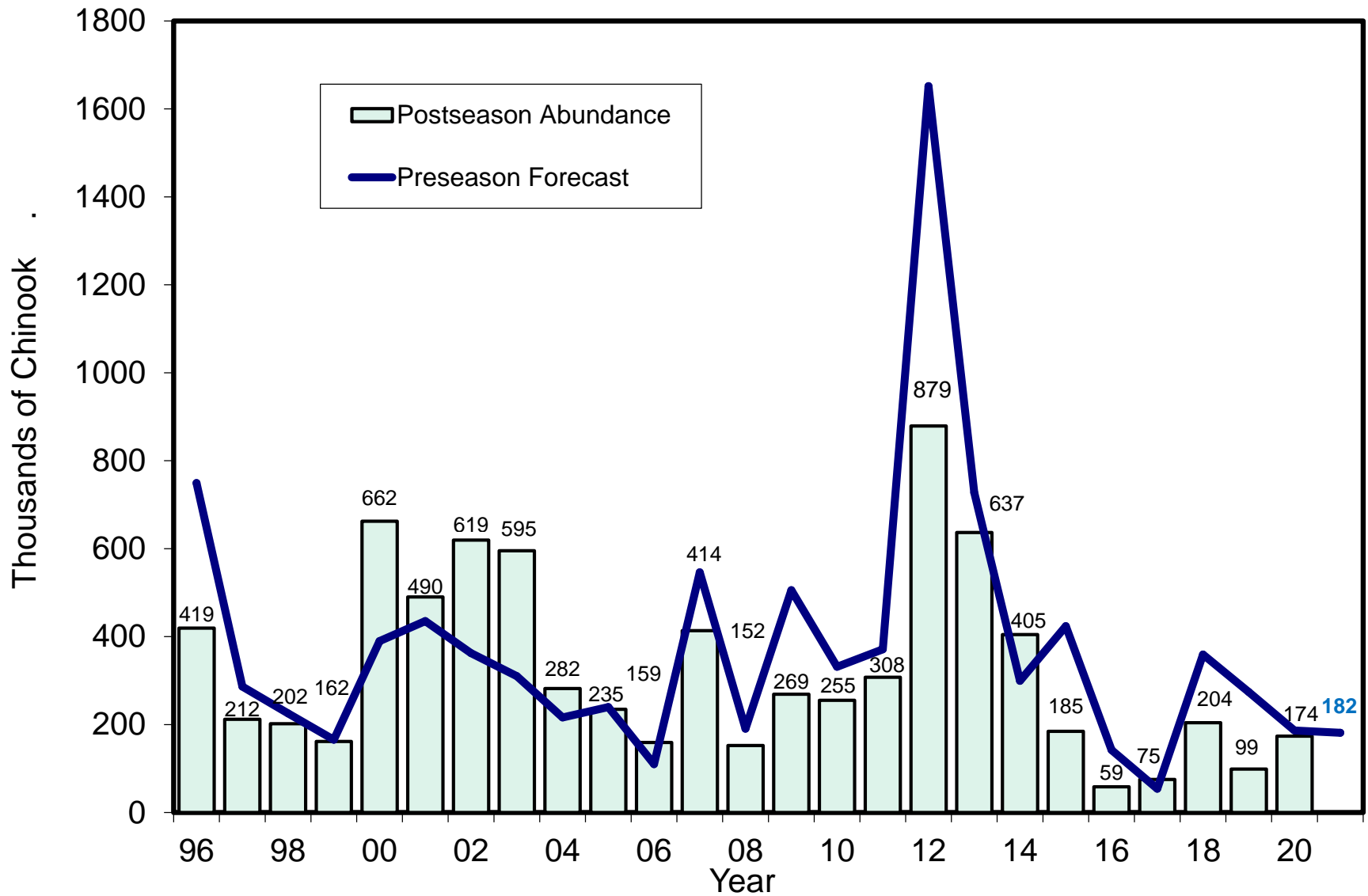
Klamath R. Fall Chinook Age-3 Forecast for 2021 with Preseason Forecast and Postseason Estimate Comparison



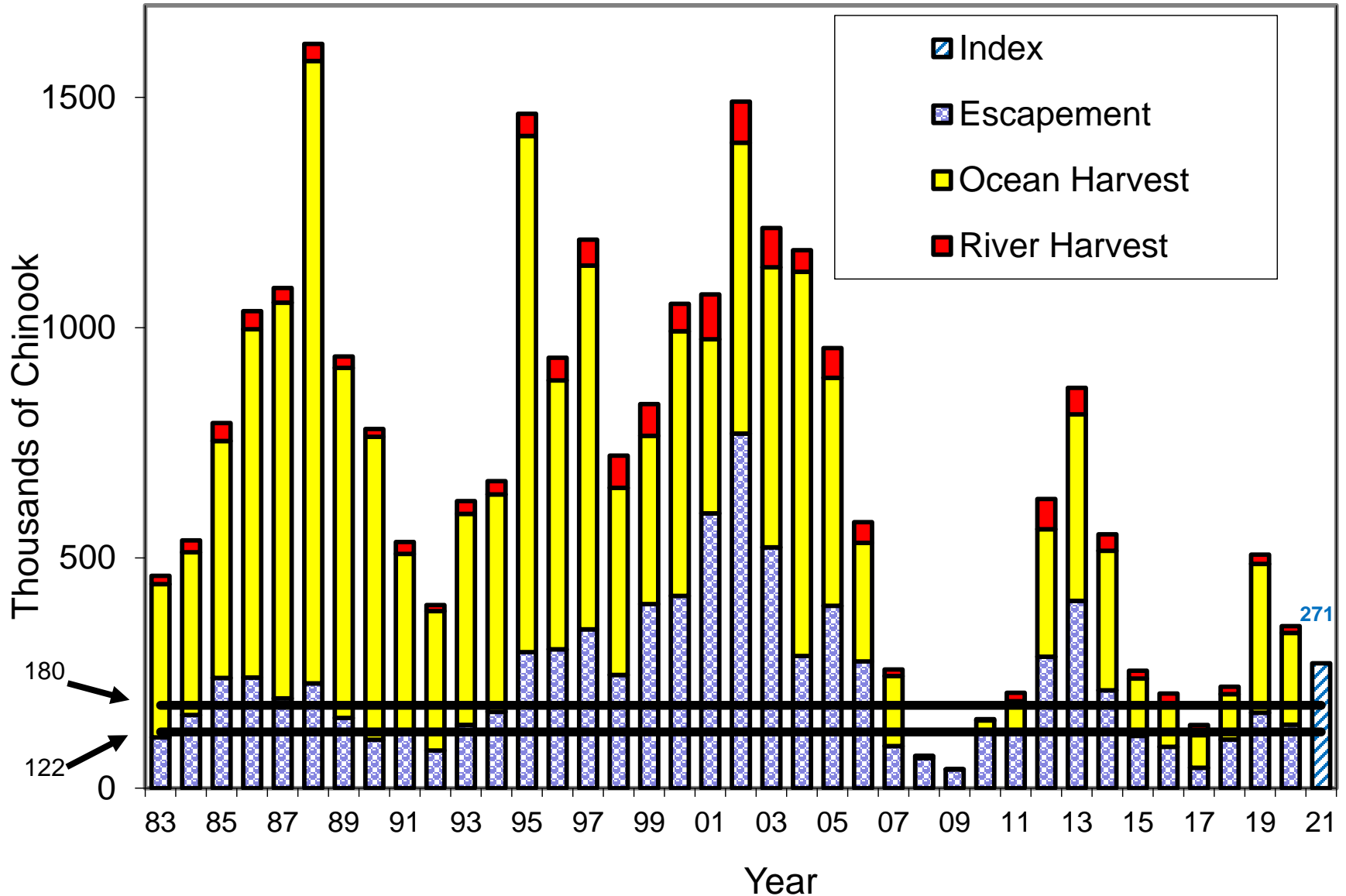
Klamath R. Fall Chinook Age-4 Forecast for 2021 with Preseason Forecast and Postseason Estimate Comparison



Klamath R. Fall Chinook Adult Forecast for 2021 with Preseason Forecast and Postseason Estimate Comparison



Sacramento R. Fall Chinook Escapements and Harvest, 1983-2020; and 2021 Index



Preliminary 2021 Ocean Abundance Forecasts for Select Salmon Stocks

Coho	Preseason Expectations	Comments
Oregon Production Index (OPI)		
Hatchery	1,607,900	1,422,200 more than 2020 Forecast
Oregon Coast Natural	125,000	42,000 more than 2020 Forecast
Lower Columbia Natural	39,200	14,400 more than 2020 Forecast

Chinook

Sacramento Index (Fall Chinook)	271,000	202,200 less than 2020 Forecast
Klamath	age 3 - 135,600 age 4 - 45,100	14,000 less than 2020 Forecast 8,900 more than 2020 Forecast
Rogue Fall	Index - 274,100	17,200 more than 2020 Forecast
Oregon Coast North Migrating	Above recent year average	Increasing spawner counts

Columbia River Chinook ^{1/}

Tules	119,900	22,700 more than 2020 Forecast
Fall Brights	460,900	127,100 more than 2020 Forecast
Lower River Wild	20,000	300 more than 2020 Forecast
Upriver Spring	75,200	6,500 less than 2020 Forecast
Willamette Spring	50,000	9,200 more than 2020 Forecast

^{1/} Preseason expectations to the mouth of the Columbia River.

Oregon Coastal Natural Coho Spawning Escapement Estimates, 2006-2020

Component and Basin	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2006-2020 Avg.
NORTHERN																
Necanicum	750	431	1,055	3,827	4,445	2,120	902	798	5,727	847	936	529	393	698	708	1,611
Nehalem	11,614	14,033	17,205	21,753	32,215	15,322	2,963	4,539	30,577	3,079	7,549	5,486	4,190	12,383	11,217	12,942
Tillamook	8,774	2,295	4,828	16,251	14,890	19,250	1,686	4,402	20,090	1,345	7,102	2,927	2,035	3,961	3,995	7,589
Nestucca	1,876	394	1,844	4,252	1,947	7,857	1,751	946	6,369	1,029	2,412	4,495	1,072	4,602	6,134	3,132
Ind. Tribs.	1,121	376	639	2,052	1,473	1,341	218	271	4,607	440	699	206	262	616	694	1,001
TOTAL	24,135	17,529	25,571	48,135	54,970	45,890	7,520	10,956	67,370	6,740	18,698	13,643	7,952	22,260	22,748	26,274
NORTH CENTRAL																
Salmon	513	59	652	753	1,382	3,636	297	1,165	3,680	332	1,054	450	103	215	492	986
Siletz	5,205	2,197	20,634	24,070	6,283	33,094	4,495	7,660	19,496	2,216	3,015	5,202	4,064	4,509	5,330	9,831
Yaquina	4,247	3,158	10,913	11,182	8,589	19,074	6,268	3,553	25,582	2,400	3,730	2,491	4,672	3,452	5,423	7,649
Beaver Ck.	1,950	611	1,218	3,575	2,072	2,389	1,878	2,015	6,564	332	1,709	1,553	494	814	593	1,851
Alsea	1,972	2,146	13,320	14,638	9,688	28,337	8,470	9,283	25,786	6,185	7,375	4,377	5,112	4,915	5,794	9,827
Siuslaw	5,869	3,552	17,491	30,607	25,983	28,082	11,946	14,118	38,896	10,352	9,141	7,129	6,635	5,881	10,994	15,112
Ind. Tribs.	1,468	547	3,910	1,610	2,548	4,487	492	1,929	1,890	856	464	1,646	958	289	824	1,595
TOTAL	21,224	12,270	68,138	86,435	56,545	119,099	33,846	39,723	121,894	22,673	26,488	22,848	22,038	20,075	29,450	46,850
SOUTH CENTRAL																
Umpqua	18,092	11,783	37,868	57,984	70,019	94,655	20,948	27,016	66,272	14,860	7,494	15,492	24,035	19,158	24,859	34,036
Coos	11,266	1,329	14,881	26,979	27,658	10,999	9,414	6,884	38,880	3,030	4,624	2,689	7,292	13,289	6,775	12,399
Coquille	28,577	13,968	8,791	22,286	23,564	55,667	5,911	23,637	41,660	3,357	9,494	4,641	5,688	11,841	7,366	17,763
Floras Ck.	1,104	340	786	3,203	11,329	9,217	2,502	1,936	1,022	1,585	942	693	628	904	766	2,464
Sixes R.	294	97	43	176	92	334	34	567	410	168	120	69	174	155	179	194
Coastal Lakes	24,127	8,955	23,608	17,349	38,744	20,281	18,922	13,659	22,010	4,729	8,044	1,302	6,704	7,433	9,727	15,040
Ind. Tribs.	-	-	0	188	484	101	48	33	106	0	0	0	10	23	0	76
TOTAL	83,460	36,472	85,977	128,165	171,890	191,254	57,800	73,732	170,360	27,729	30,718	24,886	44,531	52,803	49,671	81,963
SOUTH ROGUE																
Rogue	3,911	5,136	414	2,566	3,671	4,545	5,474	11,210	2,409	4,072	6,302	4,526	8,266	2,156	1,335	4,400
COASTWIDE	132,730	71,407	180,100	265,301	287,076	360,788	104,640	135,621	362,033	61,214	82,206	65,903	82,787	97,294	103,204	159,487