



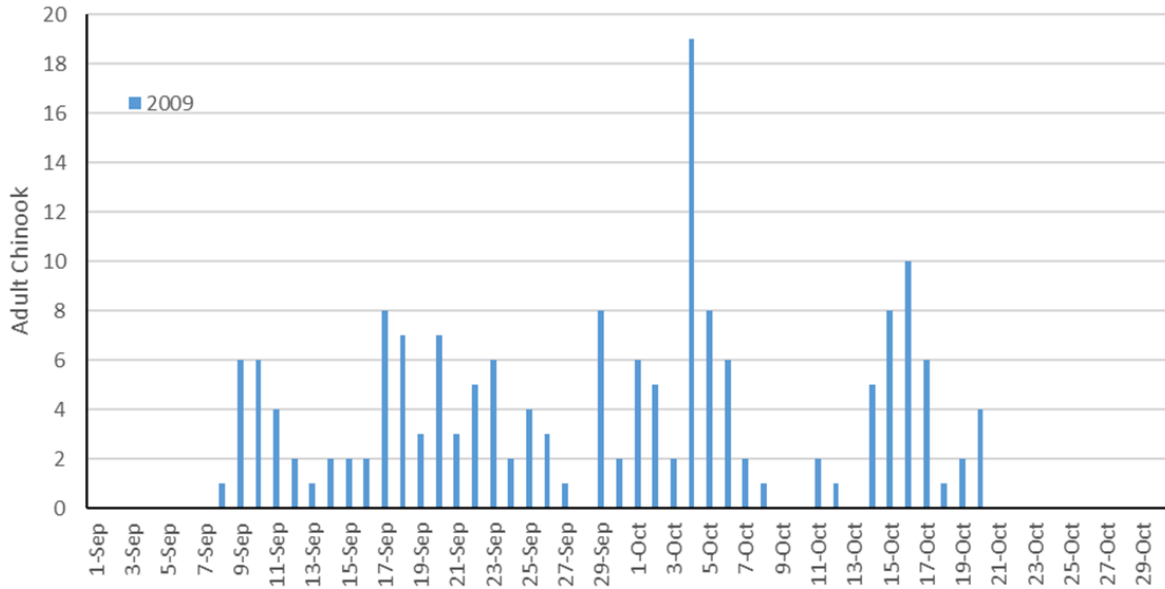
# Cowichan Chinook Management Measures and Considerations





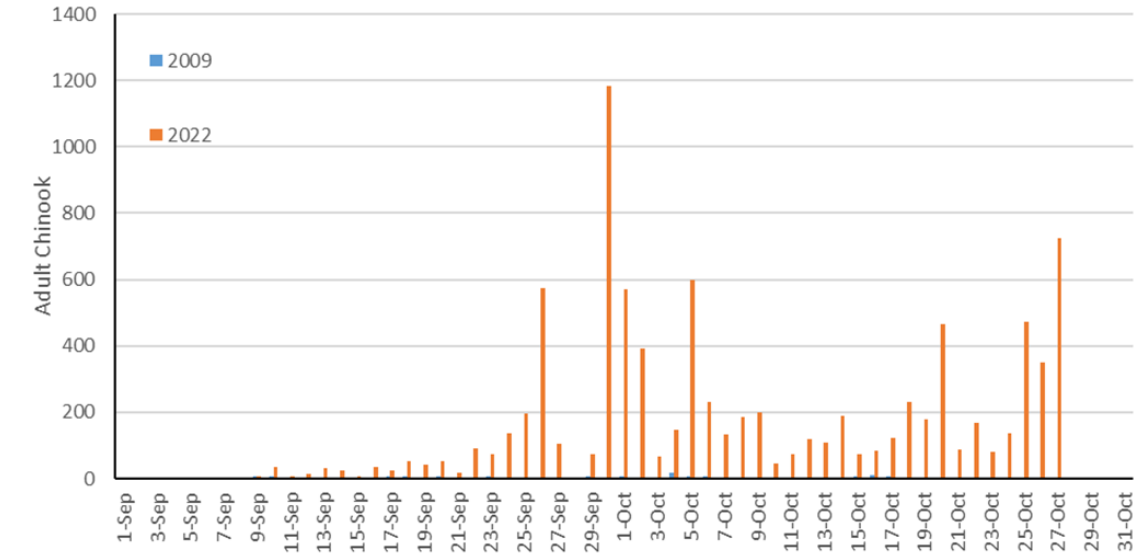
# Background Information

- Recreational Chinook Fisheries, Fraser Chinook Measures:
  - *Areas 12 to 17*
    - **April 1 to July 14 – Chinook non-retention**
    - July 15 to August 16 (Area 12) or August 31 (Areas 13-17) – one Chinook per day, max 80cm
    - August 17 to 31 – one Chinook per day (Area 12 only)
    - September 1 to March 31 – two Chinook per day
  - *Areas 18 and 19*
    - **April 1 to July 31 – Chinook non-retention**
    - August 1 to August 31 – one Chinook per day, max 80cm
    - September 1 to March 31 – two Chinook per day
- Some MSF occur in portions of these areas from April 1 to Jul 14/Jul 31
- Recreational fishers have an annual limit of 10 Chinook per year
- **All proposed changes to management measures for Cowichan Chinook lie outside of the above-noted times of Chinook non-retention.**



**2009** fence count  
173 adults from Sept 9  
to Oct 21

# Cowichan Chinook Recovery

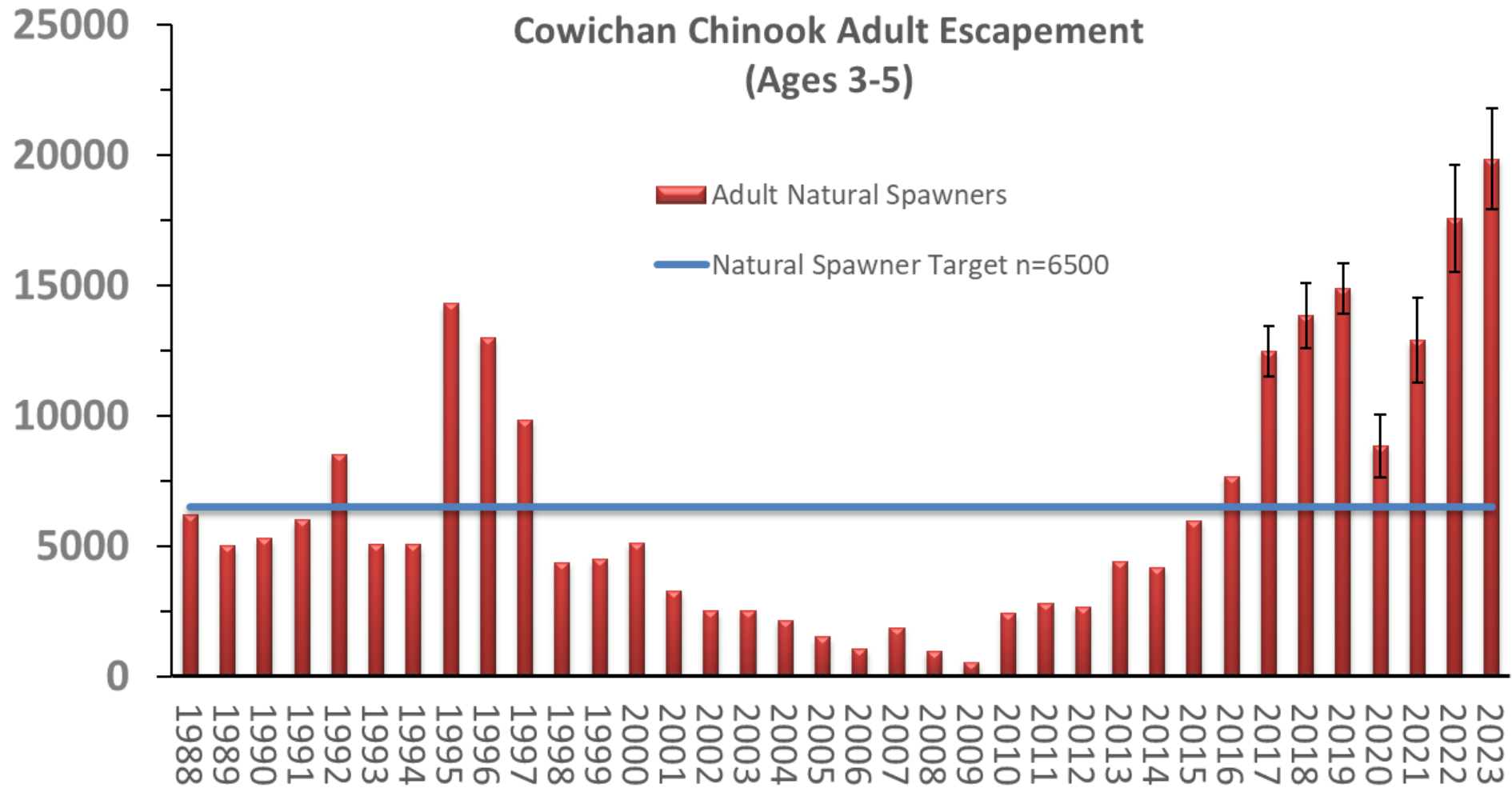


**2023** fence count  
8,658 adults

**2022** fence count  
7,054 adults



# Cowichan Chinook Escapement



Natural Spawners  
= upstream of  
fence at km 7



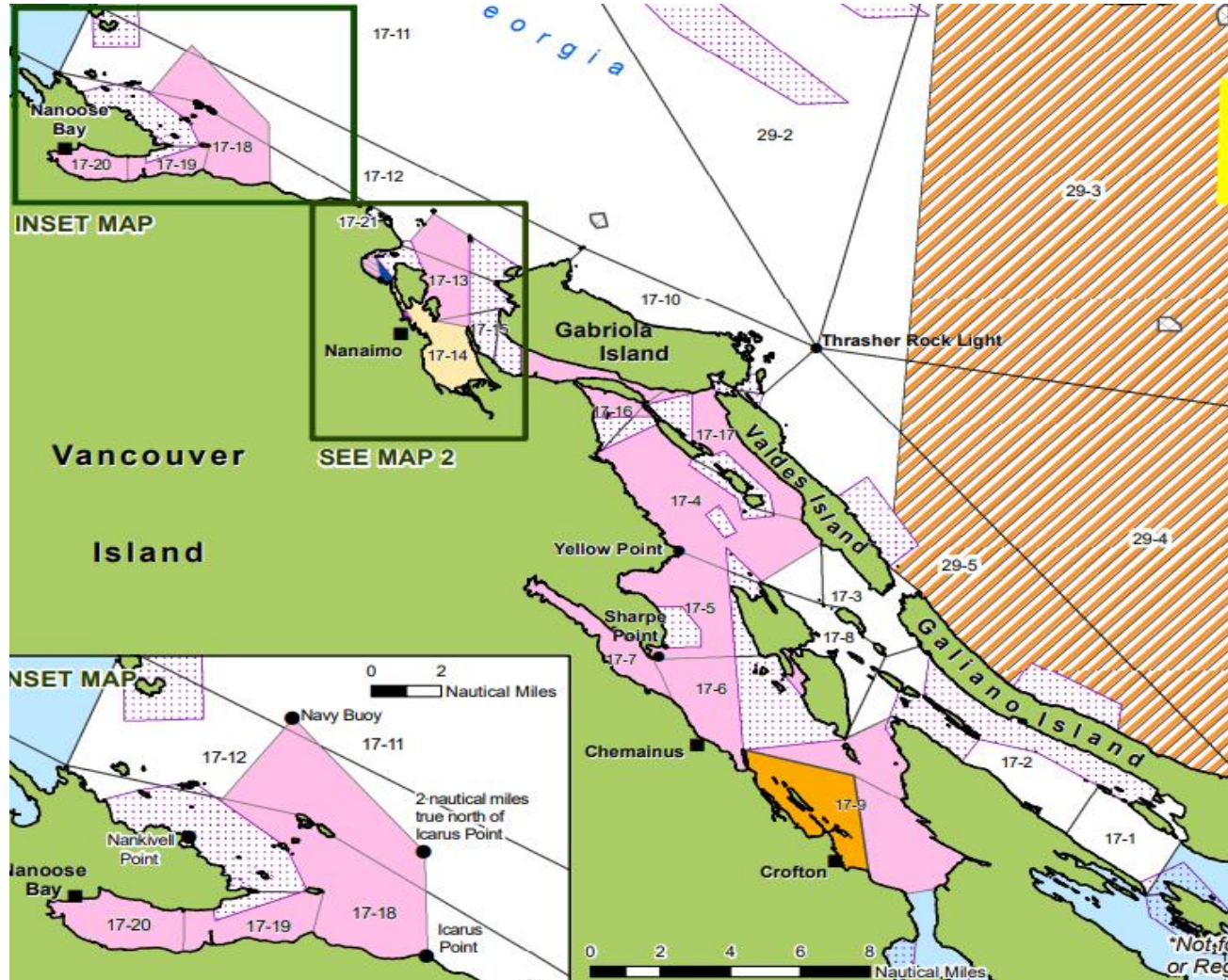
# 2024 Preliminary Salmon Outlook

## East Coast Vancouver Island / Mainland Inlets – Chinook

SMU	CU/ Sub-Unit	Average Run / Avg. Spawners	LRP / LBB	Management Target	2024	
					Forecast	Outlook
MAINLAND INLET	Aggregate includes 4 CUs					<b>DD</b>
UPPER GEORGIA STRAIT	Quinsam River Fall Run	7,072 (AVG. Terminal Run Index, 1979+)				<b>3-4</b>
MIDDLE GEORGIA STRAIT	Puntledge and Big Qualicum Rivers Fall Run Enhanced	15,329 (AVG. Terminal Run Index, 1995+)	7,193			<b>4</b>
	Nanaimo and Puntledge Summer Enhanced (CK- 83)	1,669 AVG. Terminal Run Index, 2004+)				<b>2</b>
LOWER GEORGIA STRAIT	Cowichan River Fall Run Unenhanced (<20% hatchery origin)	7,110 (AVG. Terminal Run Index, 1982+)	3,413	6,500 (Cowichan) Escapement Target ( $S_{MSY}$ )		<b>4</b>



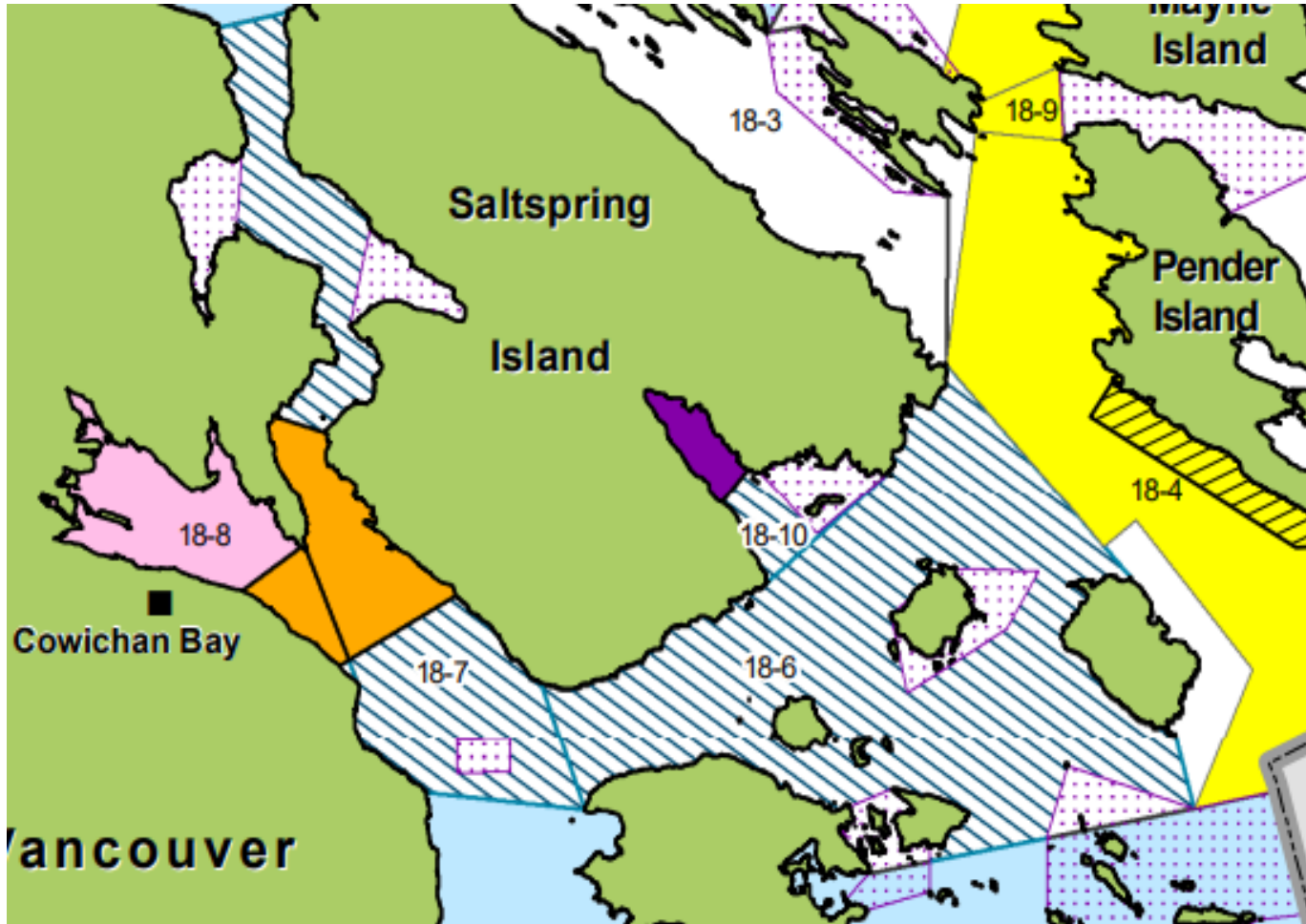
# Cowichan Chinook Measures in Area 17



- Solid **Pink** areas: Chinook non-retention from August 1 to October 15.
- Consider modifying non-retention times to better align with Nanaimo Summer Chinook and Chemainus Chinook objectives.
- Consider removing non-retention measures in Nanaimo Bay.



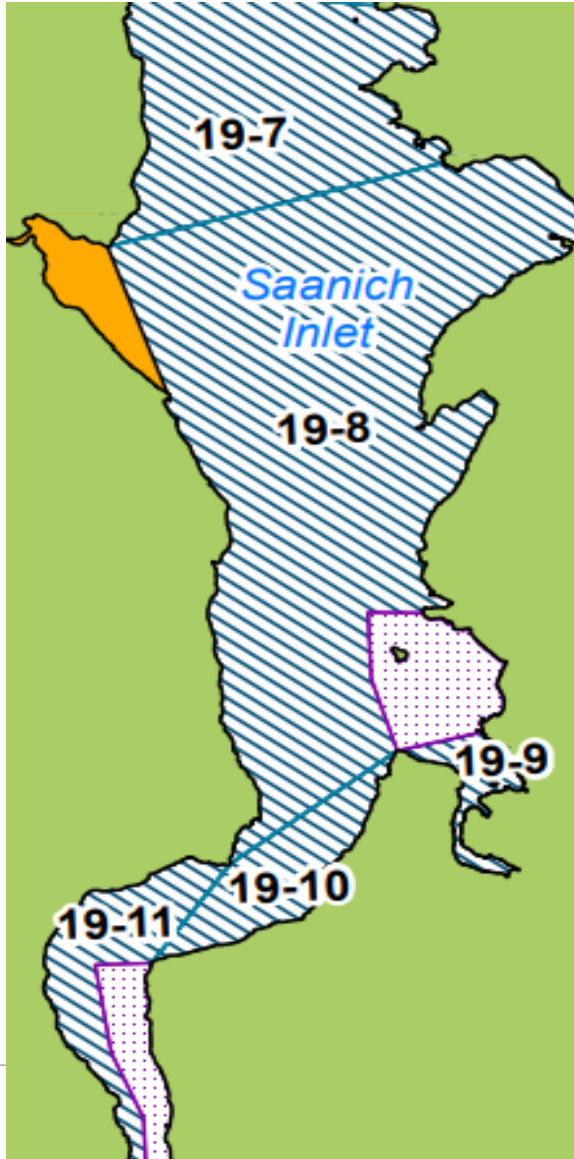
# Cowichan Chinook Measures in Area 18



- **Blue hatched** areas:  
Chinook non-retention from August 1 to October 15.
- **Orange** and **pink** areas:  
Finfish closures: August 1 to October 15/31.
- Consider removal of Chinook non-retention measures (Aug 1 to Oct 15) and modifying the finfish closures to Subarea 18-8 August 1, to October 15.



# Cowichan Chinook Measures in (Saanich Inlet) Area 19



- **Blue hatched** areas: Chinook non-retention from August 1 to October 15.
- Consider removal of the Chinook non-retention measures from August 1 to October 15.



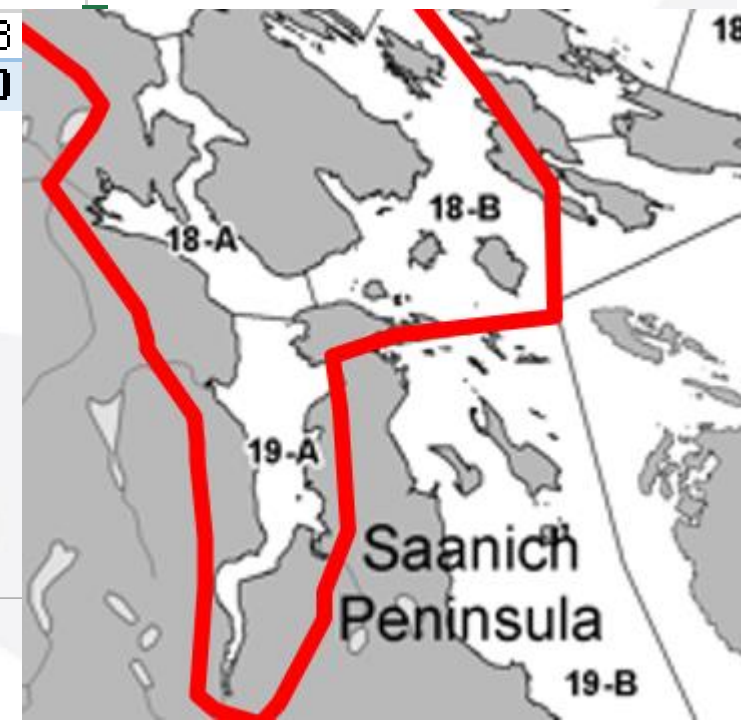


# Stock Composition Data

## Creel Subareas 18A, 18B and 19A (2014 – 2022)

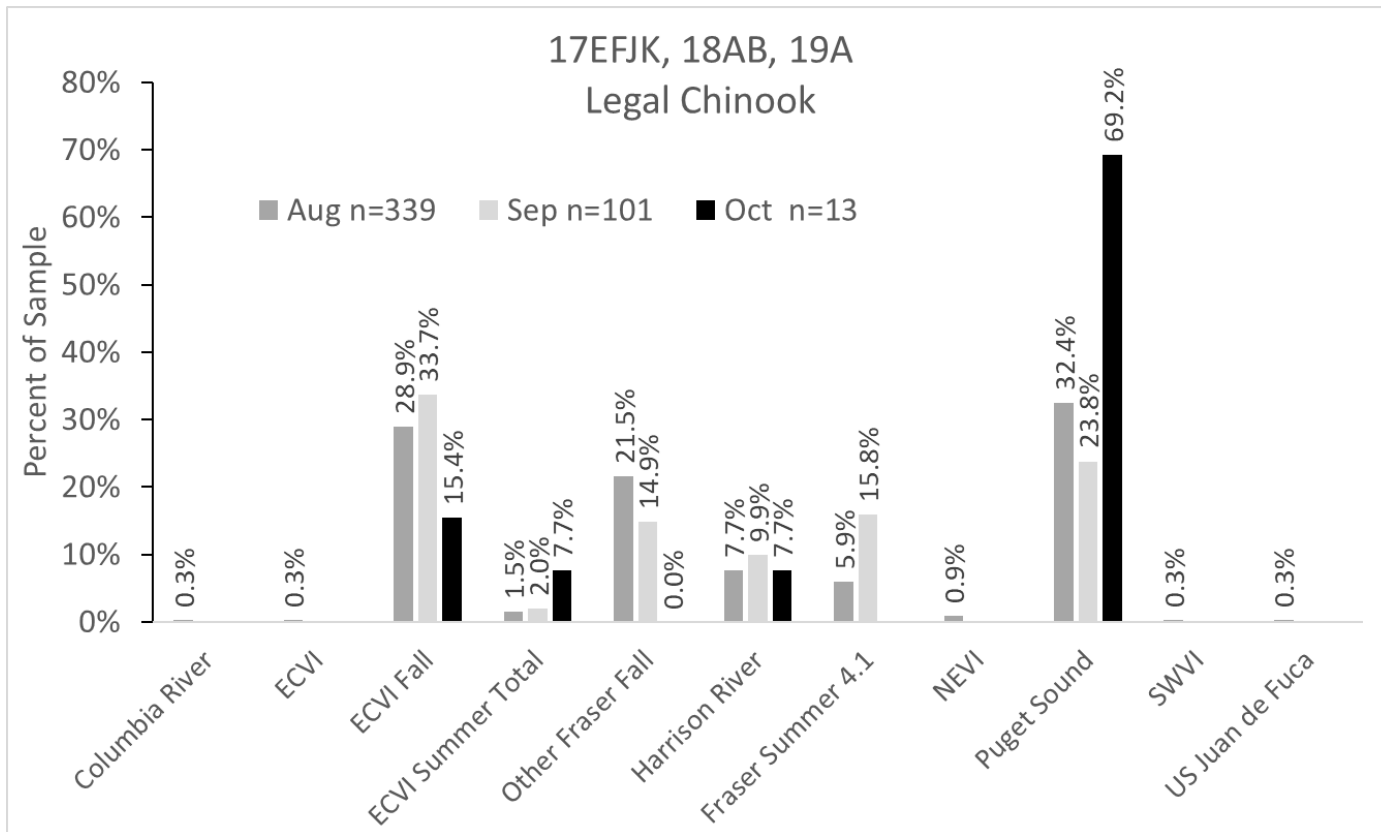
Count of DNA_RESULTS_STOCK_1 RESOLVED_STOCK_ROLLUP	MONTH	MONTH			Grand
		Oct	Sep	Aug	
+ ECVI Fall		10	2	5	17
+ Fraser Fall		1	3	3	7
+ Fraser Spring 5.2			1	1	2
+ Fraser Summer 4.1			16	14	30
+ Fraser Summer 5.2			1		1
+ Puget Sound		14	5	14	33
<b>Grand Total</b>		<b>25</b>	<b>28</b>	<b>37</b>	<b>90</b>

- The majority of Fraser River encounters occur on the outer edge of Subarea 18B where Chinook retention is open on August 1.
- No ECVI Summer Chinook encounters. The vast majority of ECVI Summer Chinook populations enter the freshwater environment before August 1.



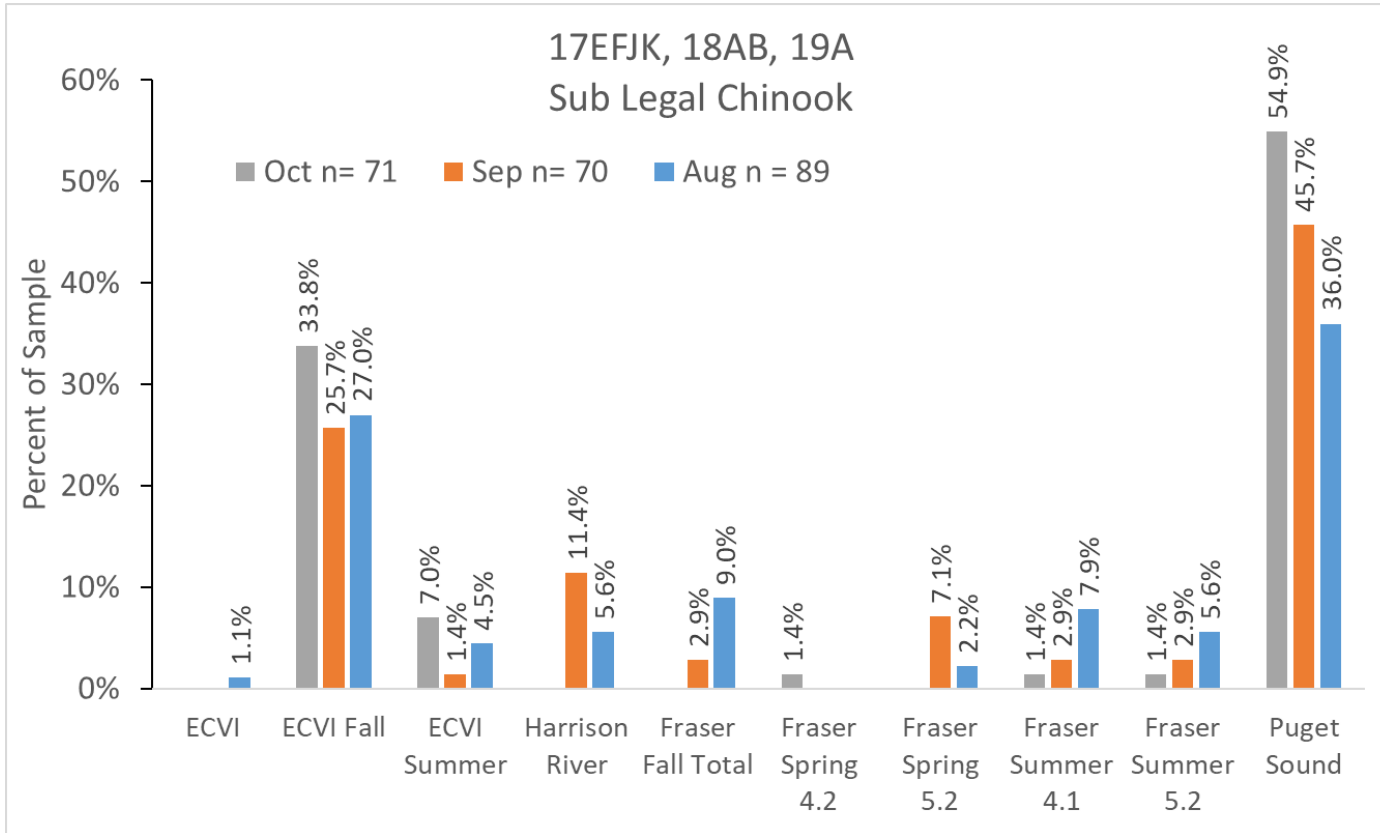


# Stock Composition Data (2014-2022; no legal Fraser stocks of concern)





# Stock Composition Data (2014-2022)

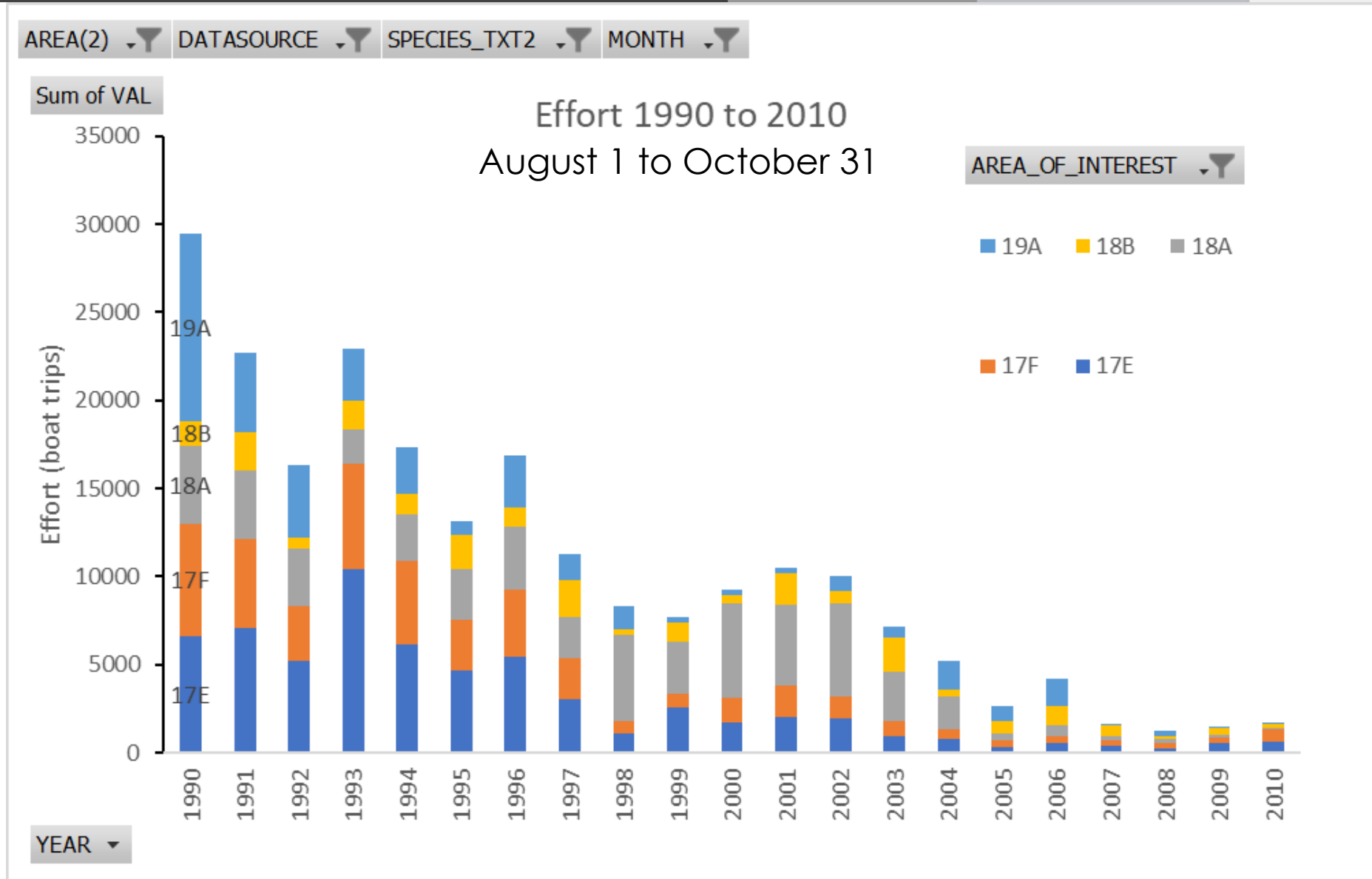


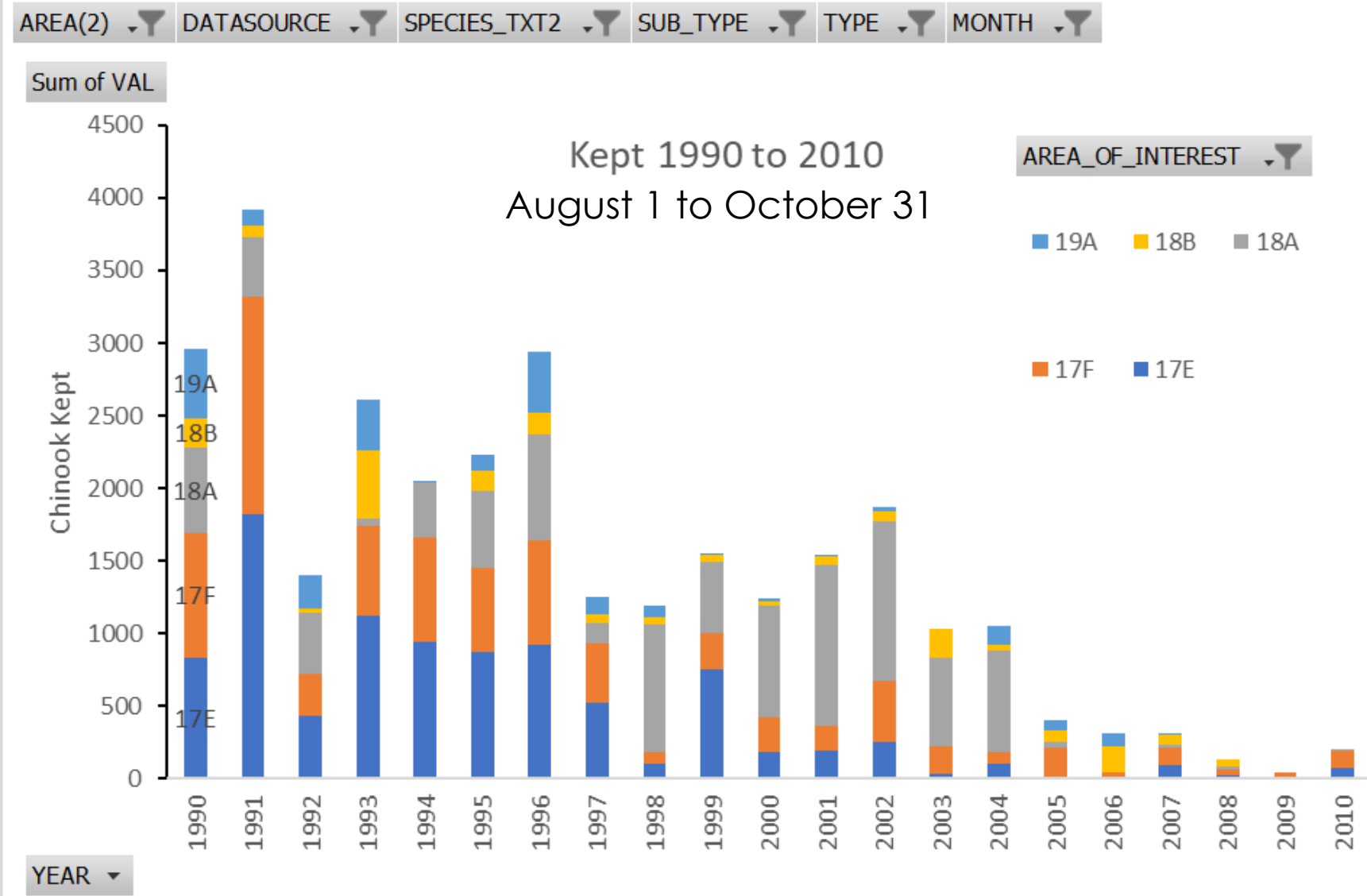


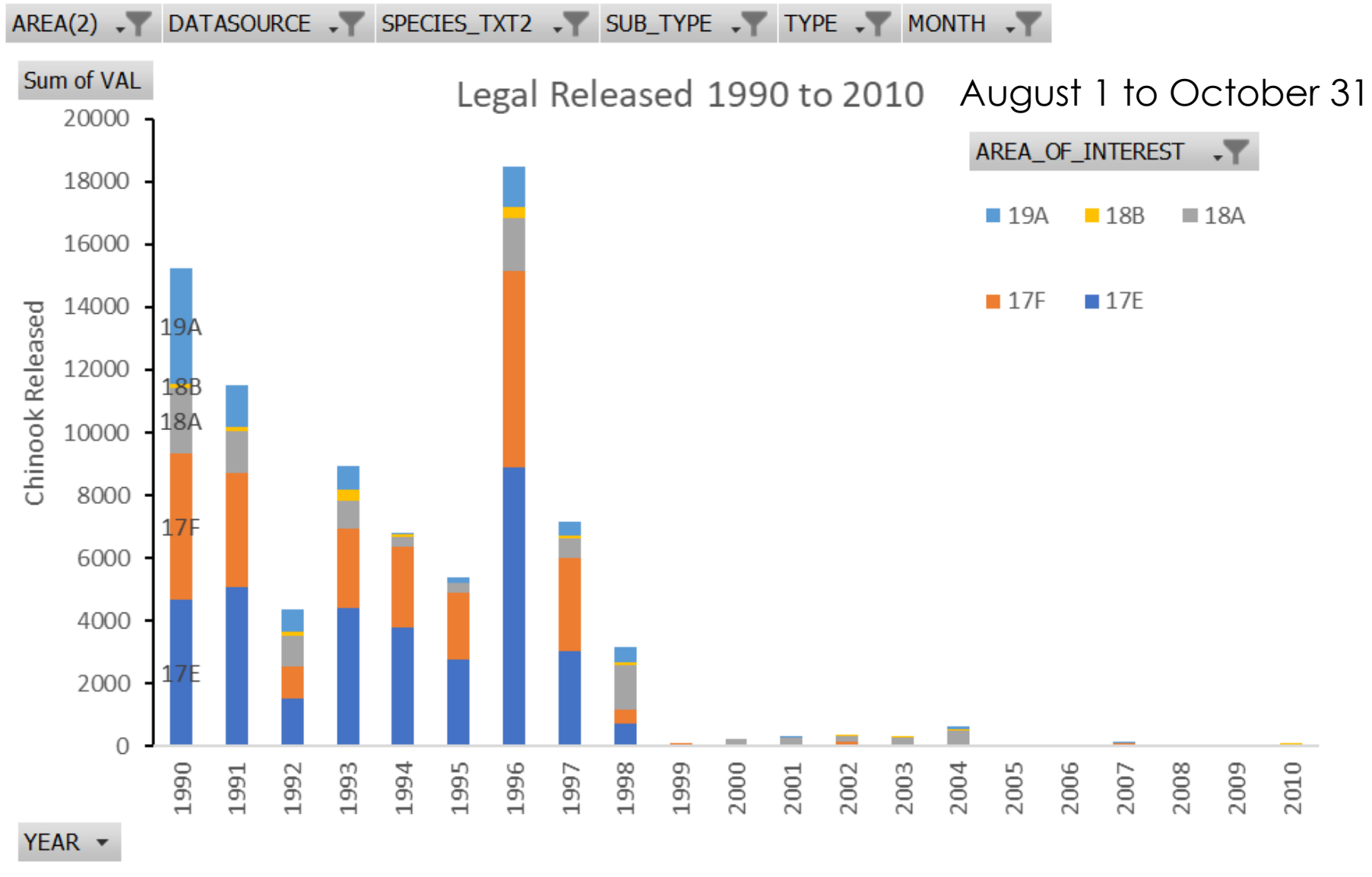
# Sub Legal Fraser Stocks of Concern – August 1 to October 31 (2014-2022)

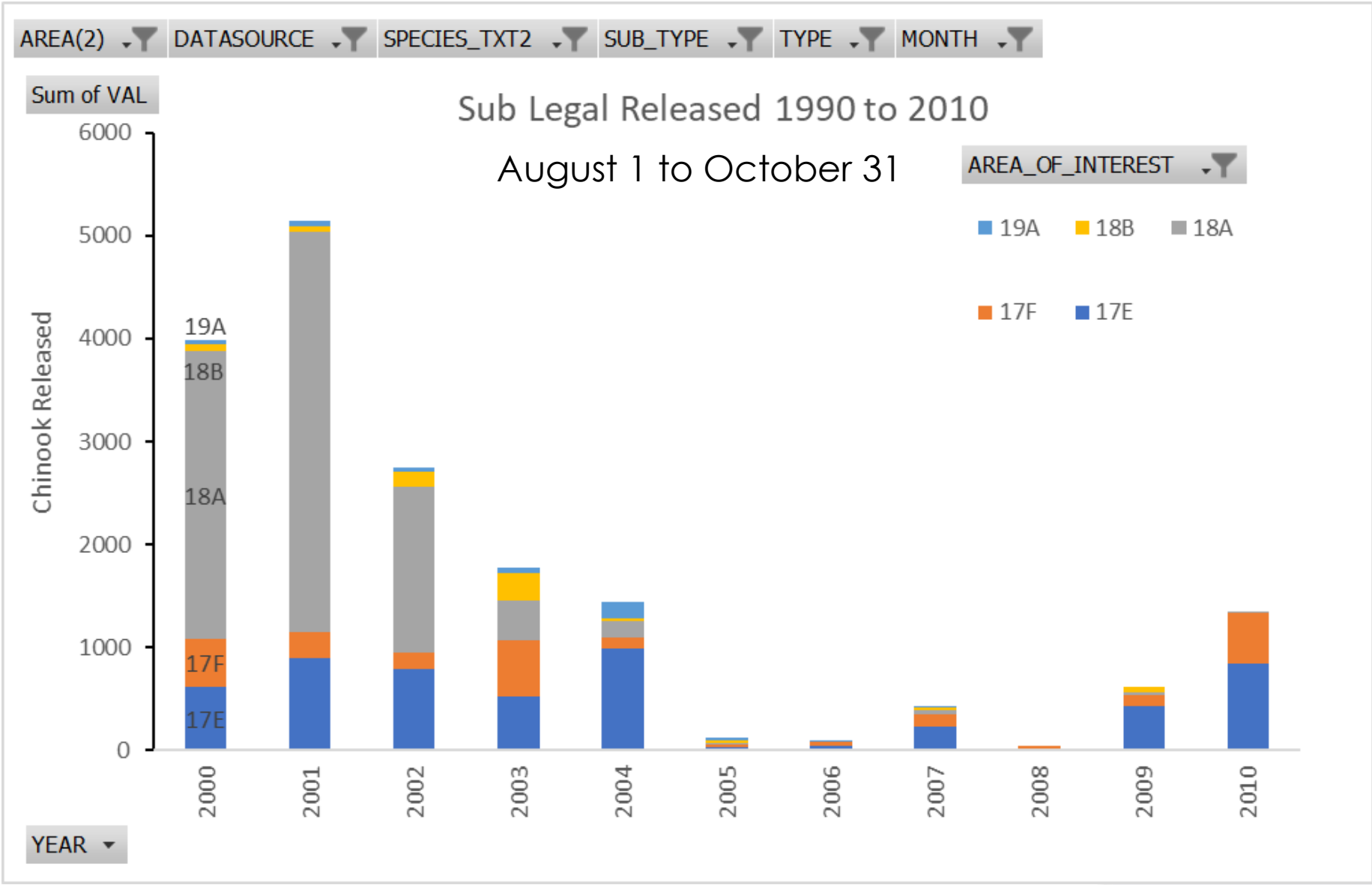
MONTH	SUBAREA	LENGTH_MM	RESOLVED_STOCK_ORIGIN	RESOLVED_STOCK_ROLLUP
Aug	17E	220	Finn Creek	Fraser Spring 5.2
Sep	17E	260	Slim Creek	Fraser Spring 5.2
Sep	17E	260	Slim Creek	Fraser Spring 5.2
Sep	18B	230	Tete Jaune Creek	Fraser Spring 5.2
Aug	18B	220	Tete Jaune Creek	Fraser Spring 5.2
Sep	17E	240	West Road (Blackwater) River	Fraser Spring 5.2
Sep	17E	250	West Road (Blackwater) River	Fraser Spring 5.2

Sep	17E	250	Chilko River	Fraser Summer 5.2
Aug	17E	280	Chilko River	Fraser Summer 5.2
Sep	18B	558.8	Clearwater River	Fraser Summer 5.2
Aug	17E	220	Nechako River	Fraser Summer 5.2
Aug	17E	290	Portage Creek	Fraser Summer 5.2
Oct	17E	310	Thompson River North	Fraser Summer 5.2
Aug	17E	380	Thompson River North	Fraser Summer 5.2
Aug	17E	440	Thompson River North	Fraser Summer 5.2









Sub-legal Chinook may have been included legal releases (previous slide) prior to 2000.