

Management of Johnstone Strait Chum Salmon in 2022

Presented to the Fraser and Approach Salmon Forum
April 12-14, 2022

Johnstone Strait Chum- 2022 Fisheries Management

- Outlook for 2022 is “1-2” – below average to well below average
- Management of Johnstone Strait (JST) Chum consistent with recent years using Chum assessment information from the Johnstone Strait Chum purse seine test fishery to inform commercial fishery decision (1.0 million limit reference point)

Inside Southern Chum Run Size	Harvest Guideline
0-1,000,000	Non-commercial fisheries only (up to 5% ER)
>1,000,000	Commercial fisheries (up to 15% ER)

- IFR Steelhead rolling window closure will delay the start of the commercial fishery until Oct 8 to 13, depending on gear and area
- ER guidelines will be adjusted to account for delayed start to commercial fisheries (to limit impacts on later-timed components of the run)

2021 JST Chum Fisheries Plan (Example)

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
Modeled Exploitation					2	3
Percentiles	Gillnet	Purse Seine	Troll	Total ER		
0%	0.00%	0.01%	0.02%	0.04%		
25%	0.00%	4.53%	0.87%	5.45%		
50%	0.00%	6.01%	1.05%	7.00%	9	10
75%	0.00%	7.46%	1.24%	8.65%		
100%	0.00%	18.03%	2.49%	20.53%		
11	12	13	14	15	16	17
Area 12 and 13 5 days/License						
18	19	20	21	22	23	24
Area 12 and 13 5 days/License			65 (Areas 12 and 13: 10 hours)	65 (Areas 12 and 13: 3 hours)	Area 12 and 13 5 days/License	
25	26	27	28	29	30	31
Area 12 and 13 5 days/License						
OCTOBER				Purse Seine	Troll	

Johnstone Strait Chum- 2022 Fisheries Planning

- Chum recreational fisheries are typically open year round
- The normal daily limit is four Chum per day but in some years, due to low in-season abundance and/or poor escapement trends, the daily limits have been reduced or fisheries closed to the retention of Chum
- The Department is proposing an in-season management approach to guide retention limits for Chum salmon in marine recreational fisheries
- The decision guidelines for the proposed approach are intended to be used in conjunction with the existing in-season guidelines for all sectors in years when the mixed-stock Chum abundance in JST is estimated to be below 1 million limit reference point

Johnstone Strait Chum 2022 Fisheries Planning- ECVI Recreational Chum Fishery Key Decision Points

* The Department will consider available information from systems that are monitored in-season. However it may or may not include those systems that encounter operational or weather issues that impact assessments.

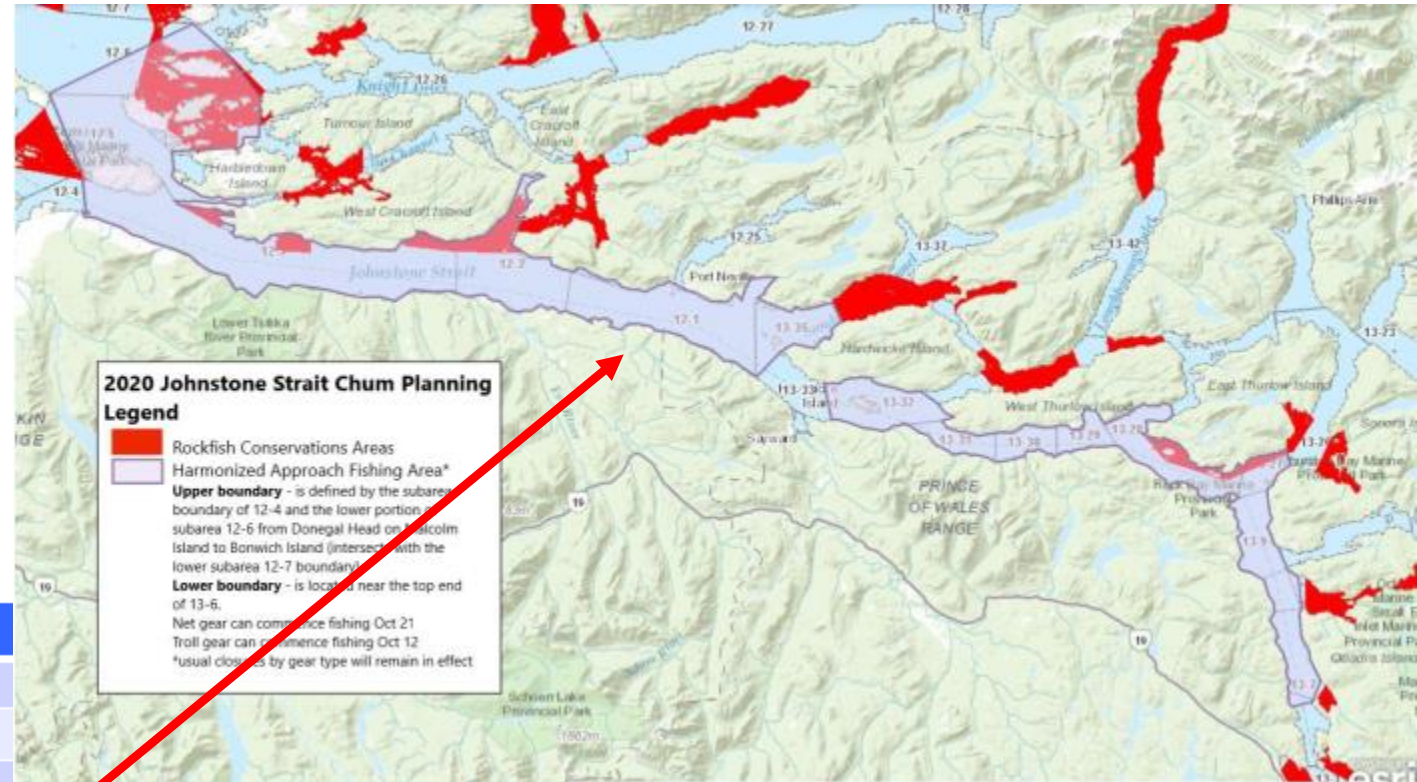
JST Chum Abundance	Fraser River Run Size	ECVI Monitored Systems* <small>Puntledge River, Qualicum River, Little Qualicum River, Nanaimo River, Cowichan River, Goldstream River</small>	Marine Recreational Fishery
<1 Million Critical Threshold not achieved	916,000 to 1,050,000	50% or less of currently assessed ECVI systems tracking below escapement	Open full limits
		Greater than 50% of currently assessed ECVI systems tracking below escapement	
	800,000 to 916,000	50% or less of currently assessed ECVI systems tracking below escapement	Consider reduced Chum retention limits
		Greater than 50% of currently assessed ECVI systems tracking below escapement	
	500,000 to 800,000	50% or less of currently assessed ECVI systems tracking below escapement	Consider reduced Chum retention limits
		Greater than 50% of currently assessed ECVI systems tracking below escapement	Chum non-retention
	<500,000	50% or less of currently assessed ECVI systems tracking below escapement	Chum non-retention
		Greater than 50% of currently assessed ECVI systems tracking below escapement	

Extra Slides

IFR Steelhead management implications for JST Chum-directed fisheries

Window Closures in Johnstone Strait

- Option for Harmonized Area



	27 day troll window closure		42 day net window closure	
	Start	End	Start	End
Area 13	17-Sep	13-Oct	11-Sep	22-Oct
Area 12	12-Sep	8-Oct	6-Sep	17-Oct
Area 11	11-Sep	7-Oct	5-Sep	16-Oct
Area 111	10-Sep	6-Oct	4-Sep	15-Oct
Area 12/13 Harmonized*	15-Sep	11-Oct	9-Sep	20-Oct

*Note: Fisheries are not permitted in upper Area 12 and lower Area 13 outside of the harmonized window when fisheries are planned for that area and period.