

# Grain Monitoring Program

## Weekly Performance Update

January 03 2023

For Grain Week 21 (2022-23 CY)

### Summary

	Week 21	Week 20	Var. from Last Year		
<b>1. Stocks in Store ('000 tonnes)</b>					
Country Elevators		3,885.6			
% of Working Capacity		71%			
Terminal Elevators		1,207.0			
% of Working Capacity		63%			
<b>2. Country Deliveries ('000 tonnes)</b>					
Country Deliveries		1,285.9			
<b>3. Railcar Supply to Western Ports (Cars)</b>					
CN Allocation Plan	↓	3,811	4,382	60%	
CN Unloads	↓	2,253	5,245	32%	
CP Allocation Plan		n/a	n/a	n/a	
CP Unloads	↓	2,998	3,899	53%	
<b>4. Port Performance (Cars)</b>					
Total Weekly Unloads	↓	5,251	9,144	43%	
4-Week Rolling Average	↓	9,018	10,502	n/a	
Var. to 4-Week Rolling Average	↓	-42%	-13%	n/a	
YTD Unloads	↑	179,980	174,729	36%	
Weekly Out-of-Car Time	↑	28.8%	20.9%	-26.8%	
<b>5. Terminal Shipments Year-to-Date ('000 tonnes)</b>					
Vancouver		11,778.3			
Prince Rupert		1,727.3			
Churchill		0.0			
Thunder Bay		3,221.6			
Total Western Canada		16,727.2			
<b>6. Vessels as at Jan 1, 2023</b>					
		Week 22	Week 21	Var. from Last Year	
Vancouver	Vessel Lineup in port	↑	35	32	52%
	Vessels Cleared	↓	4	6	-20%
	Vessels Arrived	↓	7	10	17%
Pr. Rupert	Vessel Lineup in port	↑	2	1	0%
	Vessels Cleared	↑	2	1	n/a
	Vessels Arrived	↑	3	0	n/a
<b>Vessels Inbound Jan 02, 2023 to Jan 08, 2023 (Week 23)</b>					
Vancouver		15			
Prince Rupert		1			
<b>7. Weather</b>					
	Week 21 Actual	Week 22 Actual	Week 23 Forecast		
Winnipeg Days < -25°C	2	0	0		
Edmonton Days < -25°C	5	0	0		
Vancouver Days Precip > 8mm	3	3	4		

**Note to Readers:** Due to the holidays, the Canadian Grain Commission (CGC) will combine Weeks 21 & 22 in Grain Statistics Weekly. This report relies on the CGC data and cannot present a full set of measures for Week 21 in Sections 1, 2, and 5.

#### 1. Stocks in Store: (Page 2)

- Country stocks increased to 3.86 MMT in Week 20 utilizing 71% of the system's working capacity. Space in primary elevators is good.
- Total western port terminal stocks decreased to 1.21 MMT in Week 21, utilizing 63% of the working capacity.

#### 2. Country Deliveries: (Page 2)

- Deliveries to primary elevators were 1.29 MMT in Week 20.

#### 3. Railcar Supply: (Page 3)

- Railcar allocation plans are supplied by CN to Week 22 2022-23 (see page 3 for details).

#### 4. Port Performance: (Page 4)

- Total western port unloads were 42% lower than the 4-week moving average and 43% higher than Week 21 last year.
- West Coast unloads were 4,665 cars (Vancouver 4,019 and Prince Rupert 646), 36% lower than the 4-week moving average and 88% higher than Week 21 last year.
- Thunder Bay unloads were 586 cars, 65% lower than the 4-week moving average and 51% lower than Week 21 last year.
- Year-to-date total western port unloads are 36% higher than the same period last year. The corresponding tonnage is 40% higher than the same period last year.
- The total average terminal out-of-car time (OCT) increased to 28.8% from 20.9% the previous week. The OCT for Week 21 was 30.7% at Vancouver, 43.2% at Prince Rupert, and 19.7% at Thunder Bay.

#### 5. Shipments: (Page 5)

- Year-to-date Western Canadian shipments from port terminal elevators at Week 20 are 40% higher than the same period last year and 5% higher than the 3-year average.
- The Great Lakes – St. Lawrence Seaway System closing of navigation dates, with case-by-case permissions for final clearance, are as follows:
  - Montreal – Lake Ontario Section: Dec 24 (clear by Dec 31)
  - Welland Canal: Dec 26 (clear by Jan 07)
  - Sault St. Marie Locks and Canal: Jan 15

#### 6. Vessels: (Page 5)

- Vancouver vessel lineup for Week 22 2022-23 increased to 35 vessels (The current one-year average at Vancouver is 15 vessels). Of the 35, 9 were at berth, 10 were anchored at English Bay, 3 were anchored at Burrard Inlet, and 13 were anchored at Vancouver Island.
- Prince Rupert vessel lineup for Week 22 2022-23 increased to 2 vessels (The current one-year average at Prince Rupert is 2 vessels).
- Vessels cleared from Vancouver was 4, and from Prince Rupert was 2 in Week 22 2022-23.

#### 7. Weather: (Page 6)

- Temperatures across the prairies are forecasted to remain above -25C. Railways are not expected to invoke their winter operating plans.
- Rainfall may affect the ability to load vessels in Week 23.

## 1. Stocks in Store

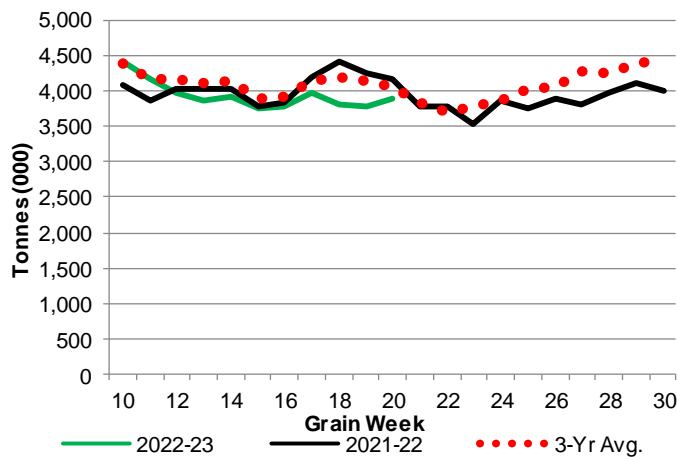
### 1-A1 Country Stocks ('000 tonnes) – Week 20

	MB	SK	AB	BC	Total
2022-23	612.0	1,885.5	1,364.3	23.8	3,885.6
2021-22	729.5	1,985.5	1,428.5	32.1	4,175.6
3-Yr Avg.	704.1	1,984.4	1,344.2	25.1	4,057.8
Var % - LY	-16%	-5%	-4%	-26%	-7%
Var % 3-Yr Avg.	-13%	-5%	1%	-5%	-4%
Storage Capacity	1,682.0	4,229.3	2,513.6	41.2	8,466.1
Estimated Working Capacity	1,093.3	2,749.0	1,633.8	26.8	5,502.9
22-23 % of Wkg Cap	56%	69%	84%	89%	71%

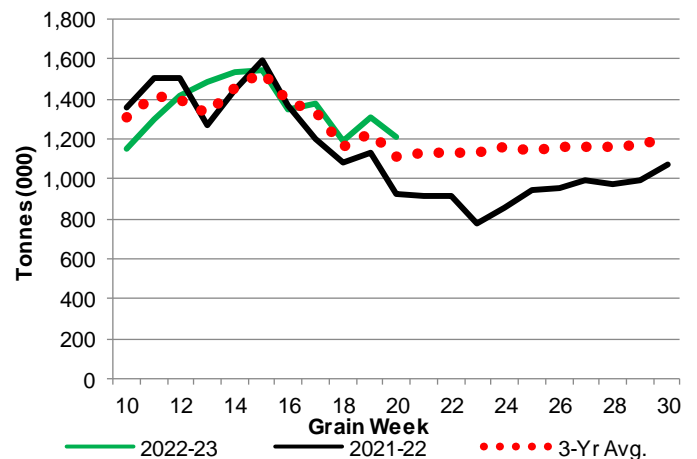
### 1-B1 Terminal Stocks ('000 tonnes) – Week 20

	VC	PR	West Coast	CH	TB	Total
2022-23	605.6	87.6	693.2	0.7	513.1	1,207.0
2021-22	357.7	54.3	412.0	0.7	513.1	925.8
3-Yr Avg.	520.9	89.7	610.6	0.7	495.3	1,106.6
Var % - LY	69%	61%	68%	0%	0%	30%
Var % 3-Yr Avg.	16%	-2%	14%	0%	4%	9%
Storage Capacity	1,275.5	209.5	1,485.0	140.0	1,127.5	2,752.5
Estimated Working Capacity	892.9	146.7	1,039.6	98.0	789.2	1,926.8
22-23 % of Wkg Cap	68%	60%	67%	1%	65%	63%

### 1-A2 Weekly Country Stocks in Store



### 1-B2 Weekly Terminal Stocks in Store

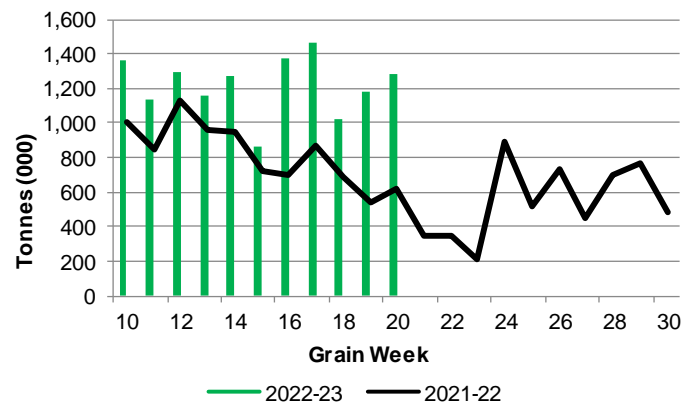


## 2. Country Deliveries

### 2-A Country Deliveries ('000 tonnes) – Week 20

	MB	SK	AB	BC	Total
2022-23	154.4	699.6	424.2	7.7	1,285.9
2021-22	108.0	289.9	213.4	4.6	615.9
4 Wk Avg	195.1	659.5	374.8	9.3	1,238.6
Var % to Last Year	43%	141%	99%	67%	109%
Var % To 4 Wk Avg	-21%	6%	13%	-17%	4%

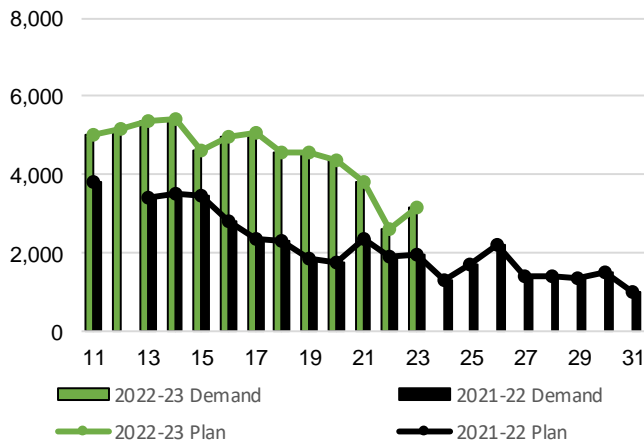
### 2-B 2022-23 Weekly Country Deliveries



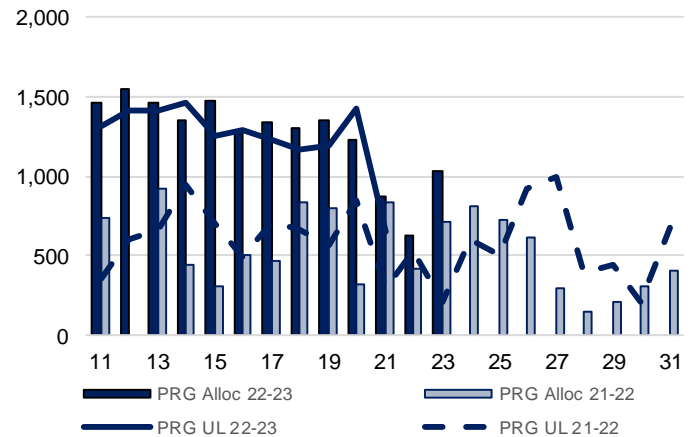
### 3. Railcar Supply

**Special Note to readers:** CP discontinued publishing weekly railcar spotting plans in Week 12 2014-15 (GCRS Service Report). CN continues to publish a weekly plan and the graphs below reflect CN's plan to Week 22 2022-23. Note that the orders accepted do not necessarily reflect shipper demand, but rather the railways' acceptance of shippers' car orders. When both railways provide the order fulfillment data requested with the expansion of the GMP mandate, which was announced on February 3, 2014, a complete set of metrics will be presented.

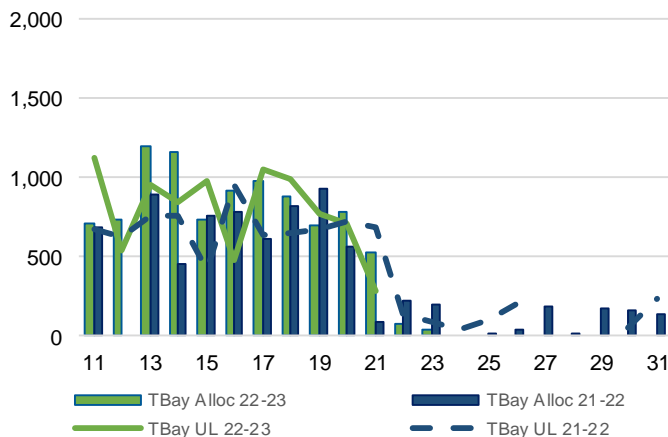
**3-A: Canadian National Planned Car Allocation vs. Demand (cars) To Week 22 2022-23**



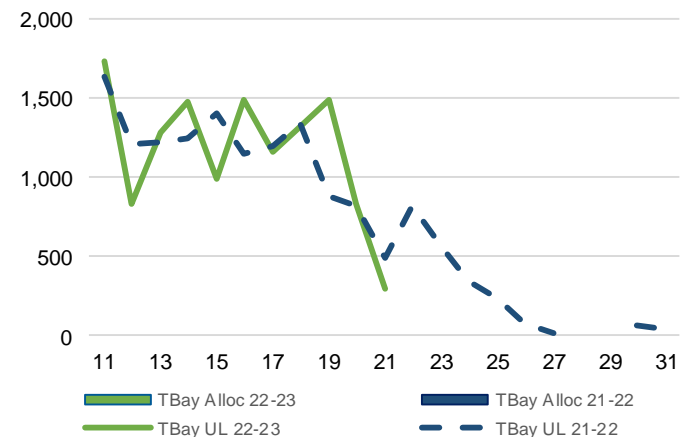
**3-B3: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Prince Rupert**



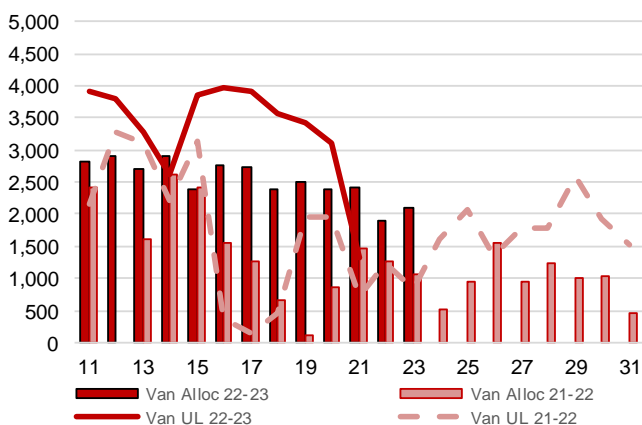
**3-B1: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Thunder Bay**



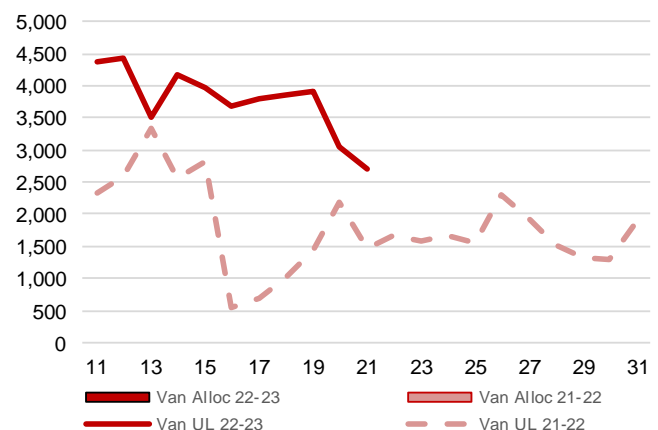
**3-C1: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (cars) – Thunder Bay**



**3-B2: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Vancouver**



**3-C2: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (cars) – Vancouver**



## 4. Port Performance

### 4-A Weekly Unloads by Port (Cars) – This Year for Week 21, 4-Week Moving Average and Variances

	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2022-23	4,019	646	4,665	586	-	5,251
2021-22	2,180	300	2,480	1,189	-	3,669
4-Wk Avg.	6,232	1,109	7,341	1,678	-	9,018
Var % to Last Year	84%	115%	88%	-51%	n/a	43%
Var % to 4-Wk Avg.	-36%	-42%	-36%	-65%	n/a	-42%

### 4-B Terminal Unloads by Port – This Year-to-Date as at Week 21 and Variances

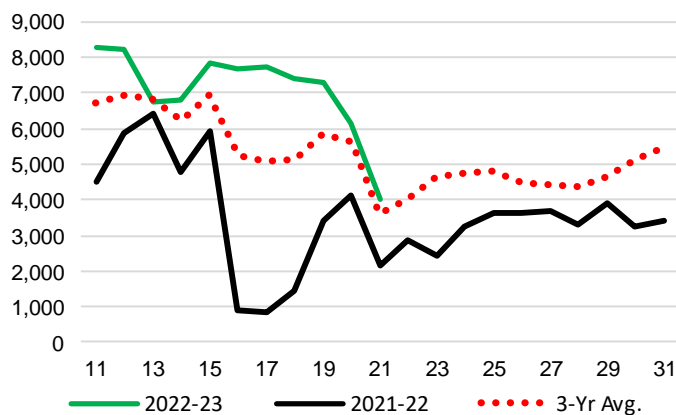
YTD Unloads (cars)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2022-23	124,746	18,974	143,720	36,260	-	179,980
2021-22	85,740	11,043	96,783	35,275	-	132,058
3-Yr Avg	115,699	18,194	133,893	39,841	354	174,088
Var % to Last Year	45%	72%	48%	3%	n/a	36%
Var % to 3-Yr Avg	8%	4%	7%	-9%	-100%	3%

YTD Unloads ('000 tonnes)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2022-23	12,089.6	1,817.8	13,907.4	3,479.8	-	17,387.2
2021-22	8,035.5	1,011.0	9,046.5	3,341.2	-	12,387.7
3-Yr Avg.	10,931.9	1,705.8	12,637.7	3,769.7	31.8	16,439.3
Var % to Last Year	50%	80%	54%	4%	n/a	40%
Var % to 3-Yr Avg.	11%	7%	10%	-8%	-100%	6%

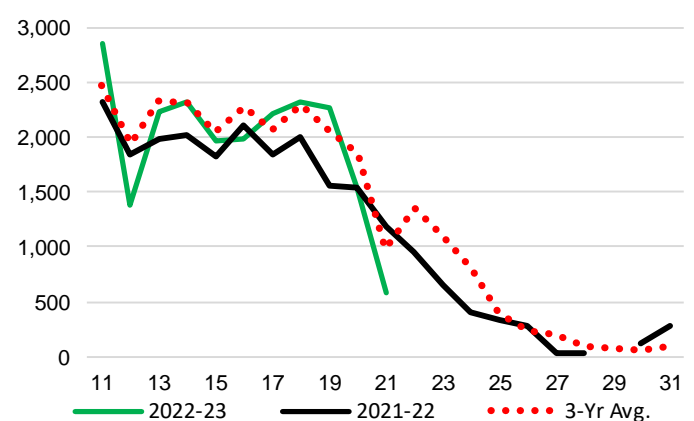
### 4-C Vancouver Unloads (cars)

(This Year vs. Last Year and the 3-Year Average)



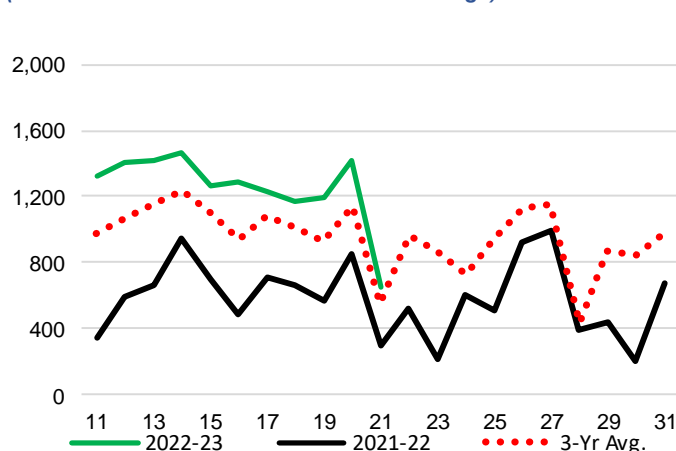
### 4-E Thunder Bay Unloads (cars)

(This Year vs. Last Year and the 3-Year Average)

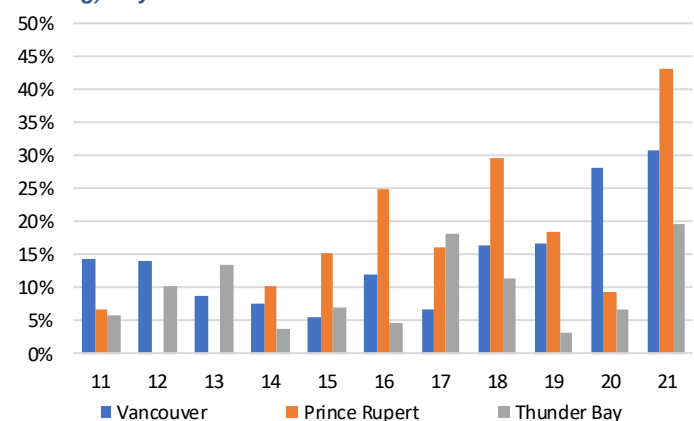


### 4-D Prince Rupert Unloads (cars)

(This Year vs. Last Year and the 3-Year Average)



### 4-F Weekly Out-of-Car Time (% of hours out-of-cars / total hours working) – by Port to Week 21



Out-of-car time is measured weekly and uses data from terminal elevators on the total number of hours the facilities are open & staffed (including overtime hours) and the corresponding number of hours that terminals have no railcars available to unload. The measure is expressed as a percentage (hours without cars to the total number of hours working).

**4-G Monthly Unloads (cars) – This year vs. Last Year and the 3-Year Average to Week 18 2022-23**

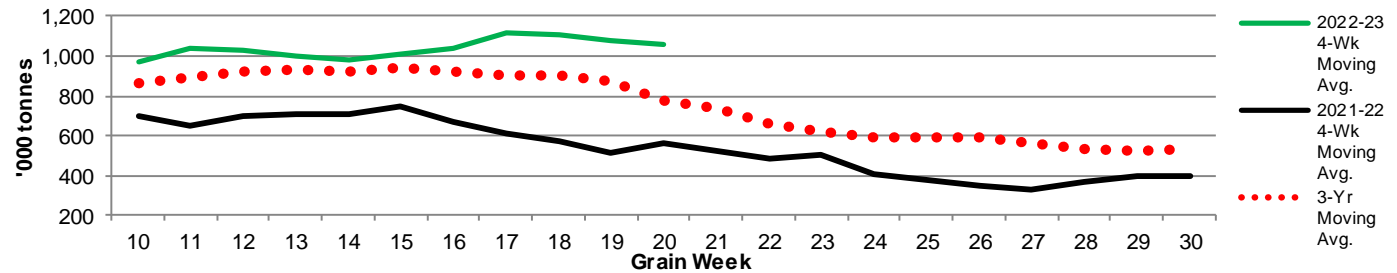
Months	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Weeks	1-5	6-9	10-13	14-18	19-22	23-26	27-30	31-35	36-39	40-44	45-48	49-52
2022-23	17,592	37,081	45,507	54,624	-	-	-	-	-	-	-	-
2021-22	23,199	31,888	34,000	27,251	20,099	16,847	16,324	17,791	16,839	16,881	13,630	15,436
3-Yr Avg.	28,664	36,603	41,283	44,994	28,190	24,955	22,352	33,123	33,009	35,187	26,137	23,809
Var % to Last Year	-24%	16%	34%	100%								
Var % to 3-Yr Avg.	-39%	1%	10%	21%								

**5. Shipments**

**5-A Shipments from Port Terminals ('000 tonnes) – This Year-to-Date as at Week 20 and Variance to Last Year-to-Date**

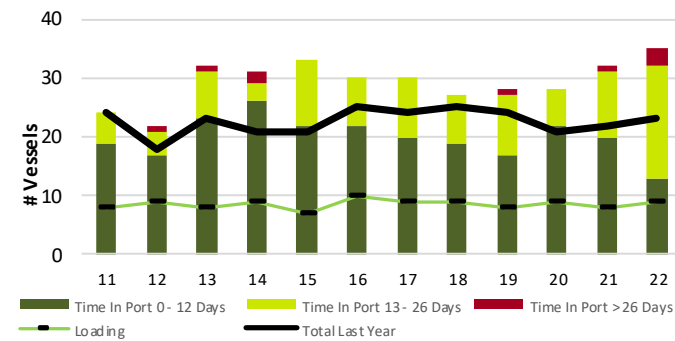
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2022-23	11,778.3	1,727.3	13,505.6	3,221.6	-	16,727.2
2021-22	7,915.1	915.1	8,830.2	3,095.3	-	11,925.5
3-Yr Avg.	10,701.7	1,609.7	12,311.4	3,522.6	31.9	15,865.9
Var % to Last Year	49%	89%	53%	4%	n/a	40%
Var % to 3-Yr Avg.	10%	7%	10%	-9%	-100%	5%

**5-B Weekly Shipments ('000 tonnes) from Port Terminals - This year 4-Week moving avg. vs. last year 4-Week moving avg. and the 3-Year moving avg.**

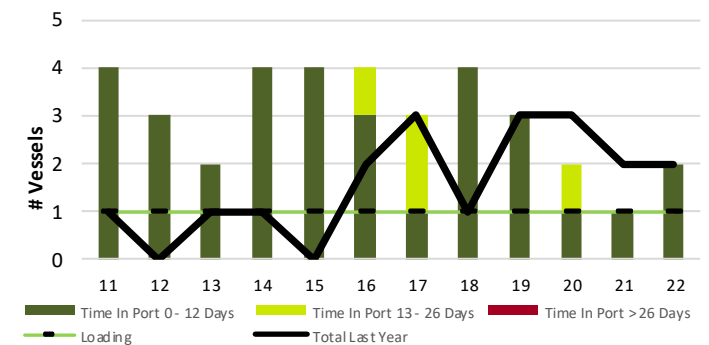


**6. Vessels**

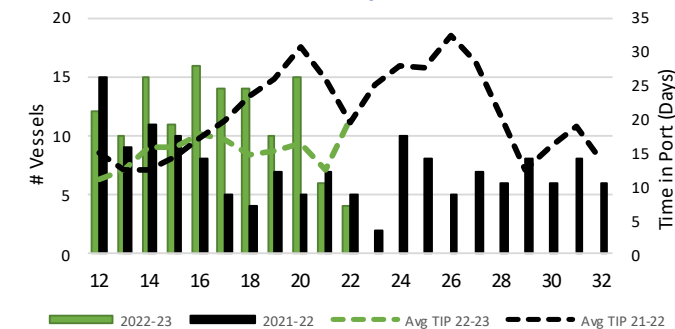
**6-A Vessel Lineup at Vancouver as of Week 22 2022-23**



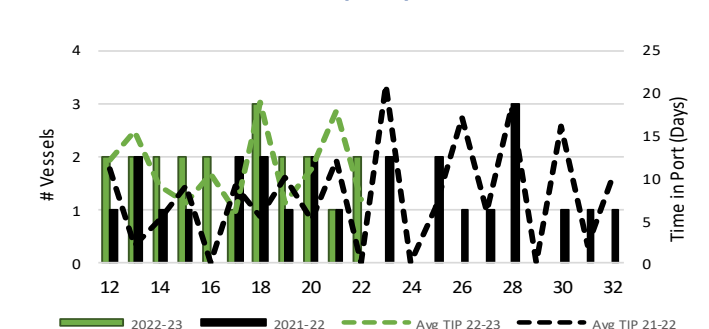
**6-C Vessel Lineup at Prince Rupert as of Week 22 2022-23**



**6-B Vessels Cleared at Vancouver up to Week 22 2022-23**



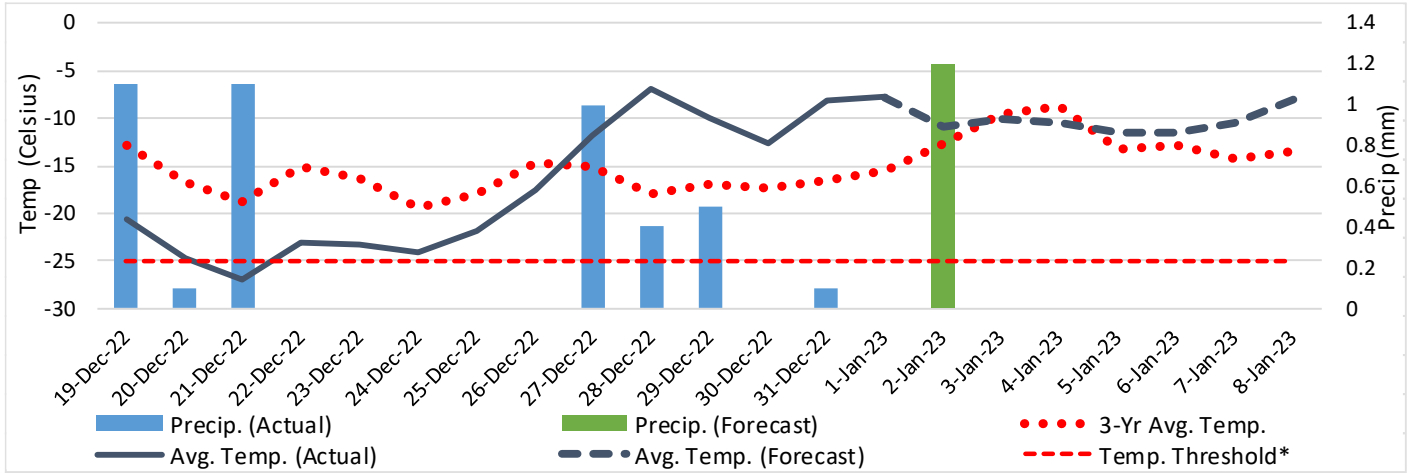
**6-D Vessels Cleared at Prince Rupert up to Week 22 2022-23**



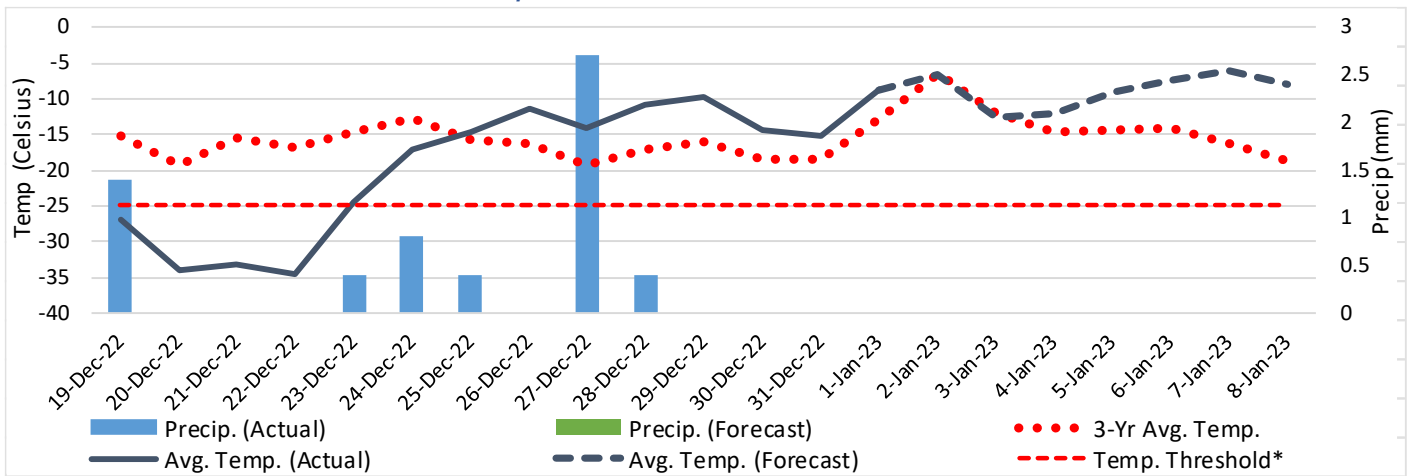
Note: The 'Time in Port' measure for 6-A and 6-C is calculated as how long each vessel in the lineup has been in port as at Sunday 23:59 of that grain week. The 'Avg Time in Port (TIP)' measure for 6-B and 6-D is the average number of days that all vessels which cleared that week were in port. These measures use vessel data provided by the BC Chamber of Shipping and Pacific Pilotage Authority.

# 7. Weather

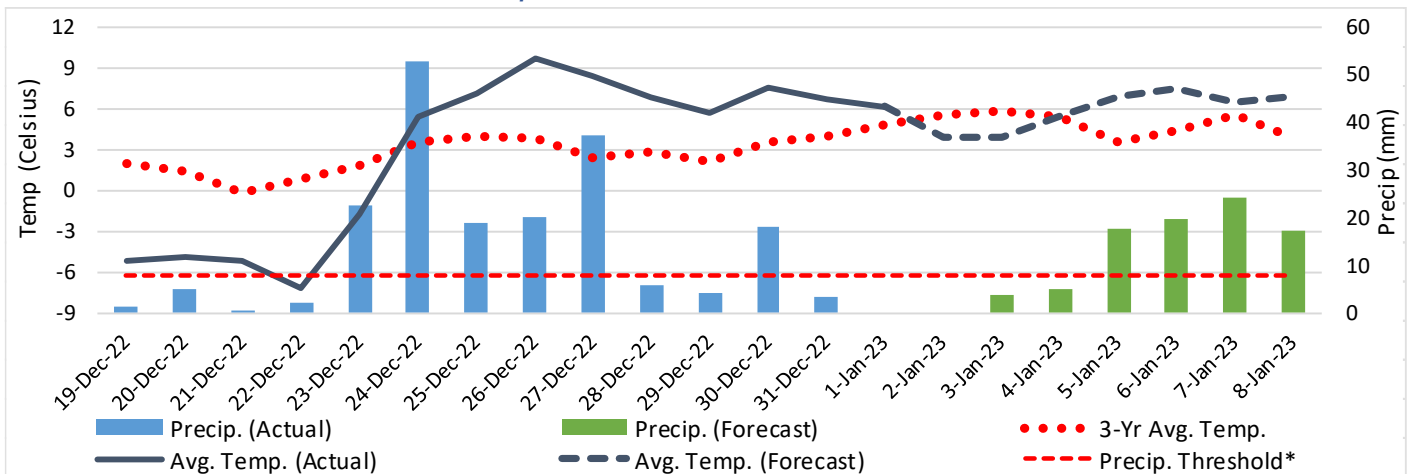
7-A Actual and Forecasted Weather at Winnipeg up to Week 23 2022-23



7-B Actual and Forecasted Weather at Edmonton up to Week 23 2022-23



7-C Actual and Forecasted Weather at Vancouver up to Week 23 2022-23



\*Note: Precip Threshold refers to 8mm of rain. At this level of precipitation, vessel loading may be delayed. The duration of the delay will be dependent on the ship, the duration of rainfall, and the amount of precipitation. 8mm is a general guideline and is not meant to be a definitive limit.

Source: Environment Canada, The Weather Network (Forecast)