

Grain Monitoring Program

Weekly Performance Update

January 10, 2023

For Grain Week 22 (2022-23 CY)

Summary

	Week 22	Week 21	Var. from Last Year	
1. Stocks in Store ('000 tonnes)				
Country Elevators	— 3,410.1	3,410.1	-10%	
% of Working Capacity	62%	62%		
Terminal Elevators	— 1,328.7	1,328.7	45%	
% of Working Capacity	69%	69%		
2. Country Deliveries ('000 tonnes)				
Country Deliveries	↓ 495.6	495.6	42%	
3. Railcar Supply to Western Ports (Cars)				
CN Allocation Plan	↓ 2,607	3,811	36%	
CN Unloads	↑ 3,343	2,374	76%	
CP Allocation Plan	n/a	n/a	n/a	
CP Unloads	↓ 1,990	3,012	-20%	
4. Port Performance (Cars)				
Total Weekly Unloads	↓ 5,333	5,386	22%	
4-Week Rolling Average	↓ 7,646	9,036	n/a	
Var. to 4-Week Rolling Average	↑ -30%	-40%	n/a	
YTD Unloads	↑ 185,386	180,053	36%	
Weekly Out-of-Car Time	↓ 9.2%	31.0%	-50.9%	
5. Terminal Shipments Year-to-Date ('000 tonnes)				
Vancouver	↑ 12,432.6	12,114.2	49%	
Prince Rupert	↑ 1,871.2	1,799.3	89%	
Churchill	— 0.0	0.0	n/a	
Thunder Bay	↑ 3,525.5	3,373.6	5%	
Total Western Canada	17,829.3	17,287.1	41%	
6. Vessels as at Jan 8, 2023				
	Week 23	Week 22	Var. from Last Year	
Vancouver	Vessel Lineup in port	↑ 35	34	46%
	Vessels Cleared	↑ 14	4	600%
	Vessels Arrived	↑ 15	7	400%
Pr. Rupert	Vessel Lineup in port	— 2	2	100%
	Vessels Cleared	↓ 1	2	-50%
	Vessels Arrived	↓ 1	3	0%
Vessels Inbound Jan 09, 2023 to Jan 15, 2023 (Week 24)				
Vancouver	18			
Prince Rupert	5			
7. Weather				
	Week 22 Actual	Week 23 Actual	Week 24 Forecast	
Winnipeg Days < -25°C	0	0	0	
Edmonton Days < -25°C	0	0	0	
Vancouver Days Precip > 8mm	3	2	6	

1. Stocks in Store: (Page 2)

- Country stocks remained at 3.41 MMT in Week 22 utilizing 62% of the system's working capacity. Space in primary elevators is good.
- Total western port terminal stocks remained at 1.33 MMT in Week 22, utilizing 69% of the working capacity.

2. Country Deliveries: (Page 2)

- Deliveries to primary elevators were 0.50 MMT in Week 22.

3. Railcar Supply: (Page 3)

- Railcar allocation plans are supplied by CN to Week 24 2022-23 (see page 3 for details).

4. Port Performance: (Page 4)

- Total western port unloads were 30% lower than the 4-week moving average and 20% higher than Week 22 last year.
- West Coast unloads were 4,728 cars (Vancouver 3,877 and Prince Rupert 851), 26% lower than the 4-week moving average and 38% higher than Week 22 last year.
- Thunder Bay unloads were 605 cars, 52% lower than the 4-week moving average and 37% lower than Week 22 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) decreased to 9.2% from 31.0% the previous week. The OCT for Week 22 was 5.0% at Vancouver, 0.0% at Prince Rupert, and 25.0% at Thunder Bay.

5. Shipments: (Page 5)

- Year-to-date Western Canadian shipments from port terminal elevators at Week 22 are 41% 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 23 2022-23 increased to 35 vessels (The current one-year average at Vancouver is 15 vessels). Of the 35, 10 were at berth, 10 were anchored at English Bay, 2 were anchored at Burrard Inlet, and 13 were anchored at Vancouver Island.
- Prince Rupert vessel lineup for Week 23 2022-23 remained at 2 vessels (The current one-year average at Prince Rupert is 2 vessels).
- Vessels cleared from Vancouver was 14, and from Prince Rupert was 1 in Week 23 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.
- Heavy rainfall at Vancouver during Week 24 may affect the ability to load vessels.

1. Stocks in Store

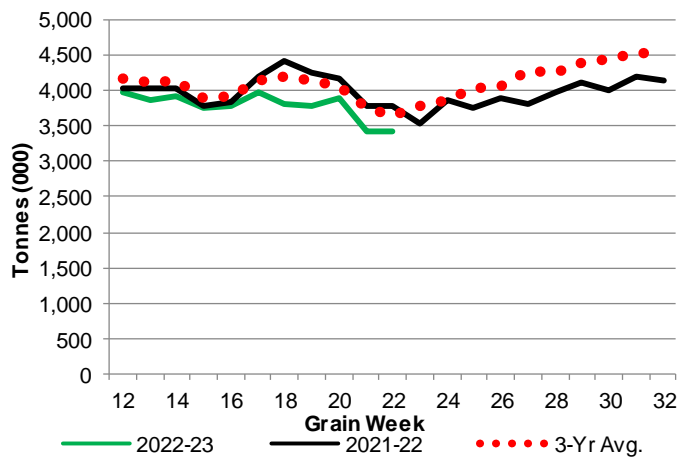
1-A1 Country Stocks ('000 tonnes) – Week 22

	MB	SK	AB	BC	Total
2022-23	597.9	1,694.3	1,093.2	24.7	3,410.1
2021-22	635.3	1,824.3	1,284.9	25.5	3,770.0
3-Yr Avg.	638.8	1,797.0	1,171.6	23.3	3,630.7
Var % - LY	-6%	-7%	-15%	-3%	-10%
Var % 3-Yr Avg.	-6%	-6%	-7%	6%	-6%
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	55%	62%	67%	92%	62%

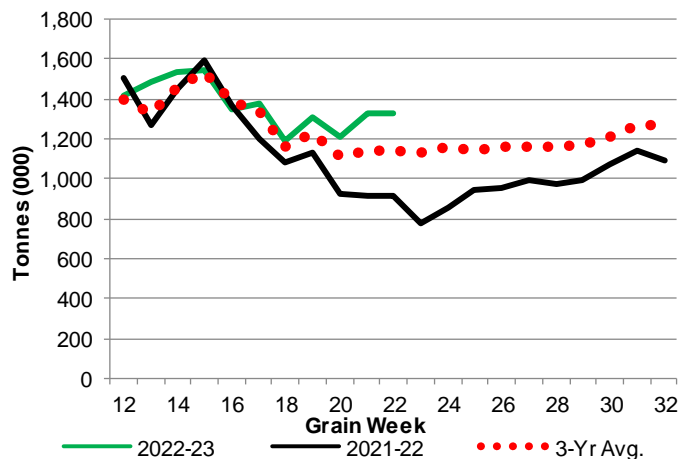
1-B1 Terminal Stocks ('000 tonnes) – Week 22

	VC	PR	West Coast	CH	TB	Total
2022-23	808.4	76.3	884.7	0.7	443.3	1,328.7
2021-22	366.9	54.3	421.2	0.7	494.1	916.0
3-Yr Avg.	628	83.1	711.1	0.7	432.4	1,144.1
Var % - LY	120%	41%	110%	0%	-10%	45%
Var % 3-Yr Avg.	29%	-8%	24%	0%	3%	16%
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	91%	52%	85%	1%	56%	69%

1-A2 Weekly Country Stocks in Store



1-B2 Weekly Terminal Stocks in Store

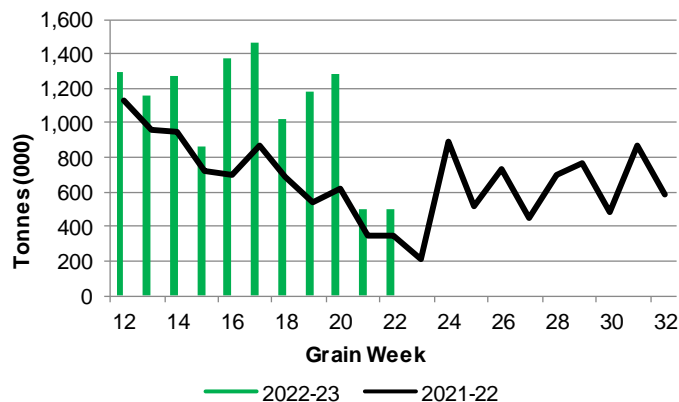


2. Country Deliveries

2-A Country Deliveries ('000 tonnes) – Week 22

	MB	SK	AB	BC	Total
2022-23	113.6	251.7	127.1	3.3	495.6
2021-22	51.9	162.6	132.1	2.2	348.6
4 Wk Avg	138.6	461.5	257.4	6.4	863.8
Var % to Last Year	119%	55%	-4%	51%	42%
Var % To 4 Wk Avg	-18%	-46%	-51%	-49%	-43%

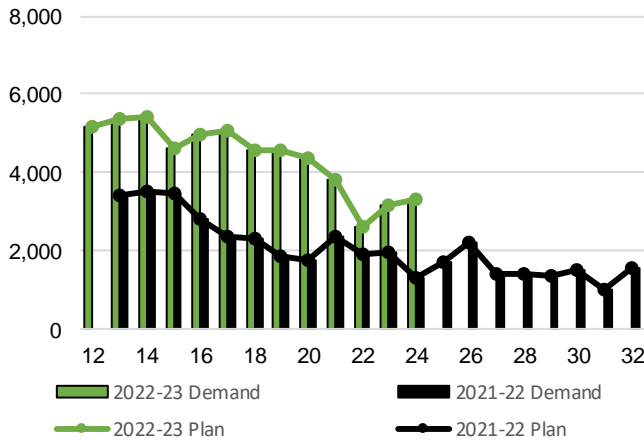
2-B 2022-23 Weekly Country Deliveries



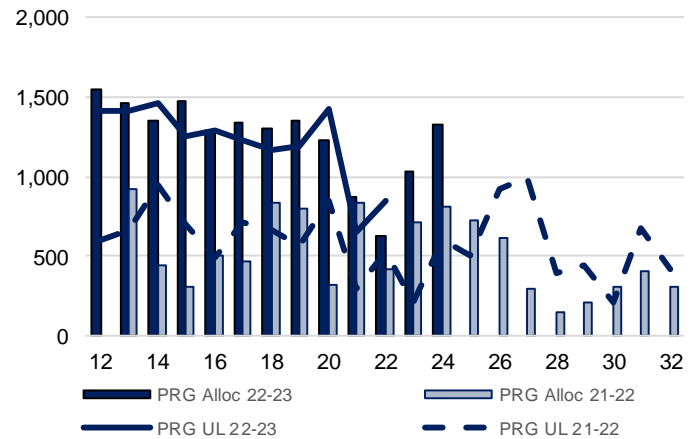
3. Railcar Supply

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 24 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.

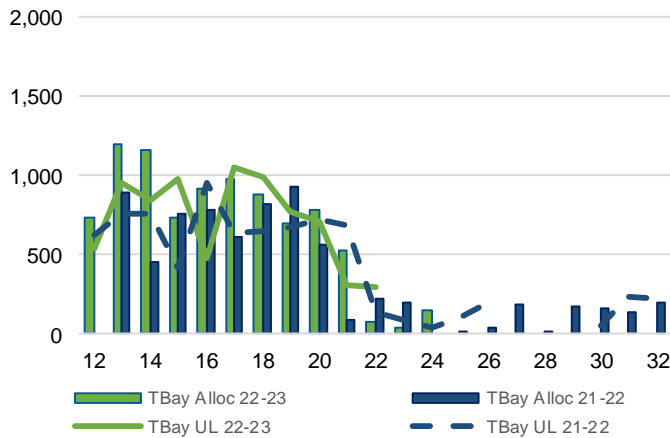
3-A: Canadian National Planned Car Allocation vs. Demand (cars) To Week 24 2022-23



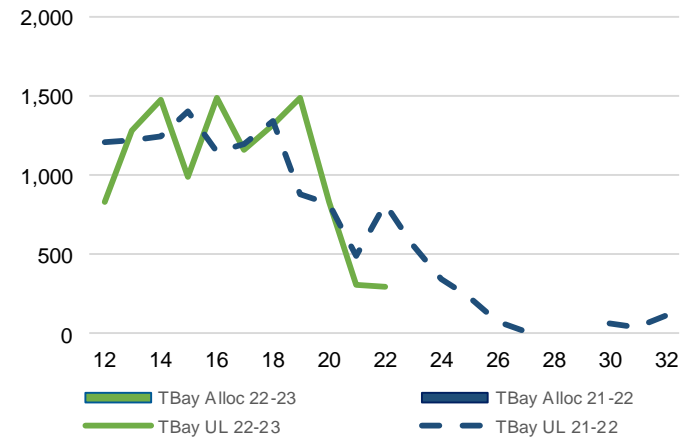
3-B3: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Prince Rupert



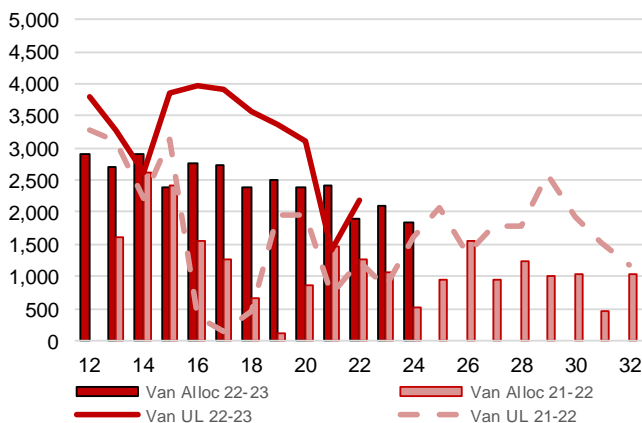
3-B1: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Thunder Bay



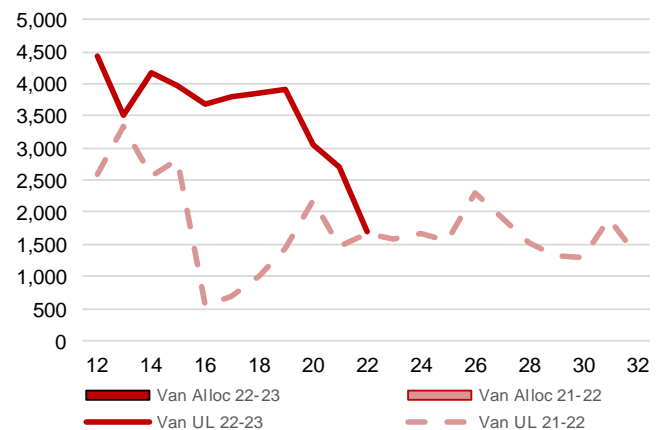
3-C1: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (cars) – Thunder Bay



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 22, 4-Week Moving Average and Variances

	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2022-23	3,877	851	4,728	605	-	5,333
2021-22	2,890	527	3,417	962	-	4,379
4-Wk Avg.	5,358	1,028	6,387	1,259	-	7,646
Var % to Last Year	34%	61%	38%	-37%	n/a	22%
Var % to 4-Wk Avg.	-28%	-17%	-26%	-52%	n/a	-30%

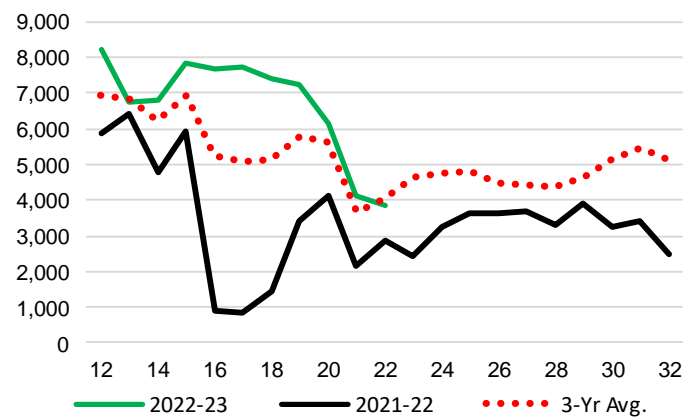
4-B Terminal Unloads by Port – This Year-to-Date as at Week 22 and Variances

YTD Unloads (cars)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2022-23	128,661	19,825	148,486	36,900	-	185,386
2021-22	88,630	11,570	100,200	36,237	-	136,437
3-Yr Avg	119,770	19,071	138,841	40,941	354	180,136
Var % to Last Year	45%	71%	48%	2%	n/a	36%
Var % to 3-Yr Avg	7%	4%	7%	-10%	-100%	3%

YTD Unloads ('000 tonnes)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2022-23	12,483.9	1,900.4	14,384.3	3,538.5	-	17,922.8
2021-22	8,307.4	1,064.4	9,371.8	3,431.5	-	12,803.3
3-Yr Avg.	11,321.1	1,791.3	13,112.5	3,871.4	31.8	17,015.7
Var % to Last Year	50%	79%	53%	3%	n/a	40%
Var % to 3-Yr Avg.	10%	6%	10%	-9%	-100%	5%

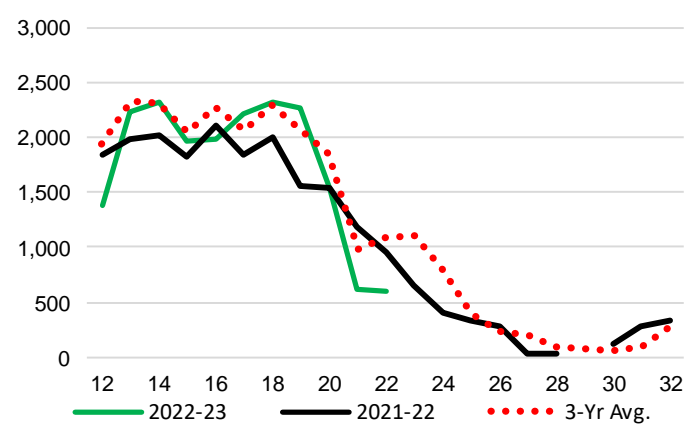
4-C Vancouver Unloads (cars)

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



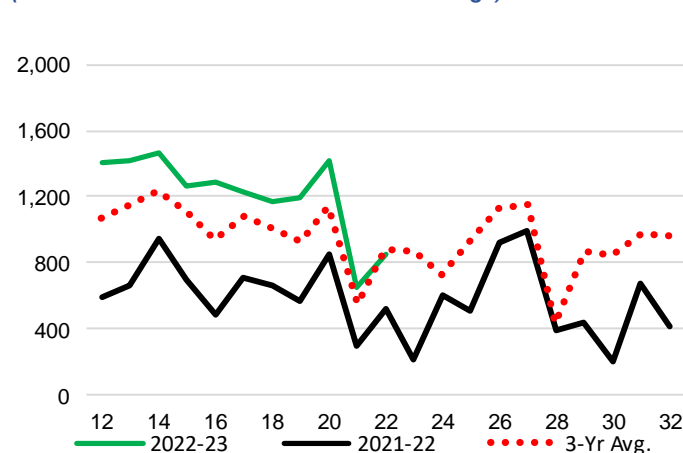
4-E Thunder Bay Unloads (cars)

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

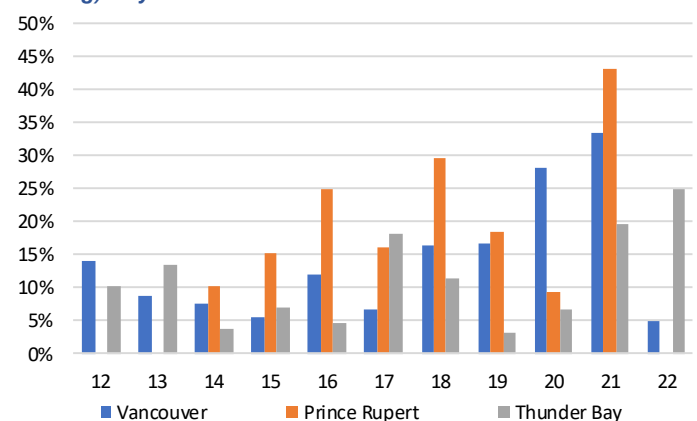


4-D Prince Rupert Unloads (cars)

(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 22



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 22 2022-23

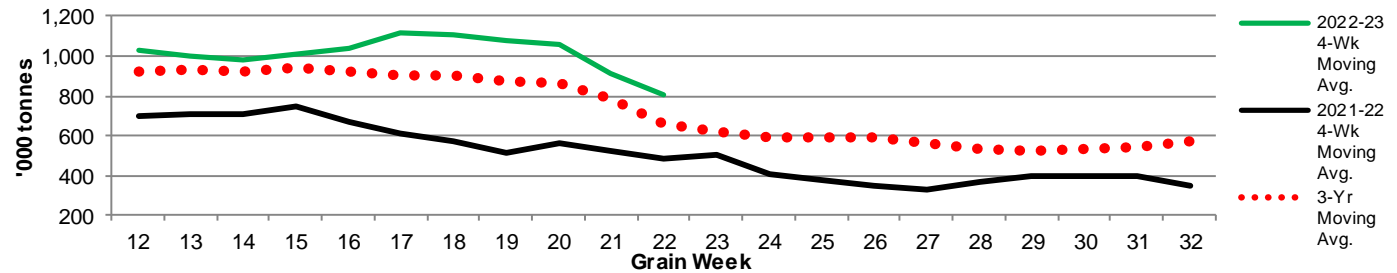
Months	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Weeks	1-5	6-9	10-13	14-18	19-22	23-26	27-30	31-35	36-39	40-44	45-48	49-52
2022-23	17,592	37,081	45,507	54,624	30,582	-	-	-	-	-	-	-
2021-22	23,199	31,888	34,000	27,251	20,099	16,847	16,324	17,791	16,839	16,881	13,630	15,436
3-Yr Avg.	28,664	36,603	41,283	44,994	28,593	24,955	22,352	33,123	33,009	35,187	26,137	23,809
Var % to Last Year	-24%	16%	34%	100%	52%							
Var % to 3-Yr Avg.	-39%	1%	10%	21%	7%							

5. Shipments

5-A Shipments from Port Terminals ('000 tonnes) – This Year-to-Date as at Week 22 and Variance to Last Year-to-Date

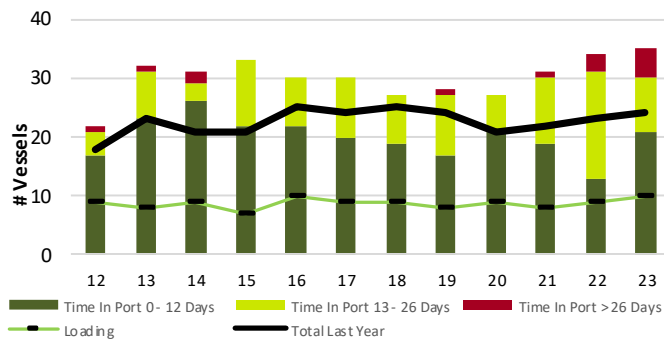
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2022-23	12,432.6	1,871.2	14,303.8	3,525.5	-	17,829.3
2021-22	8,325.0	991.8	9,316.8	3,365.6	-	12,682.4
3-Yr Avg.	11,357.3	1,750.3	13,107.6	3,824.5	31.9	16,964.0
Var % to Last Year	49%	89%	54%	5%	n/a	41%
Var % to 3-Yr Avg.	9%	7%	9%	-8%	-100%	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.

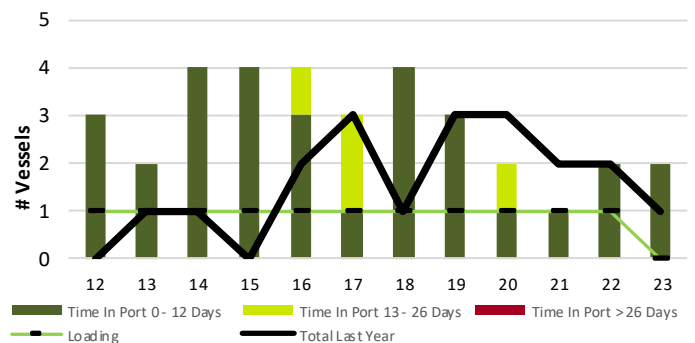


6. Vessels

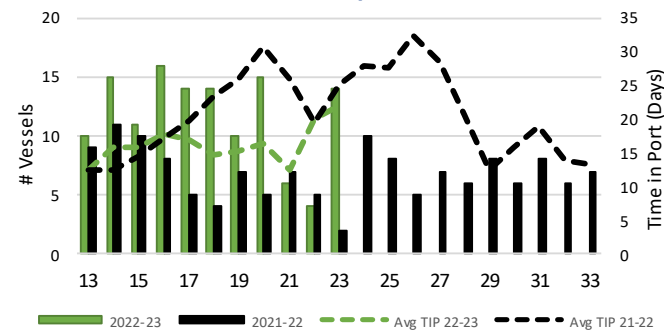
6-A Vessel Lineup at Vancouver as of Week 23 2022-23



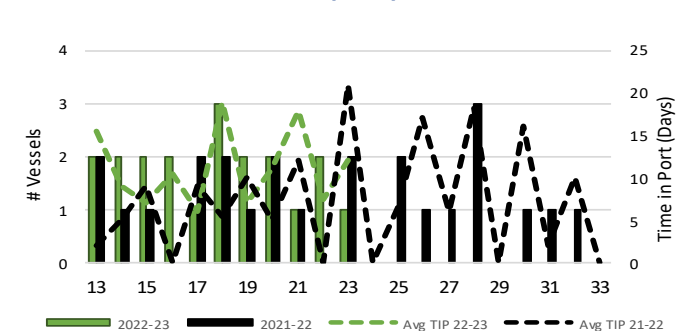
6-C Vessel Lineup at Prince Rupert as of Week 23 2022-23



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



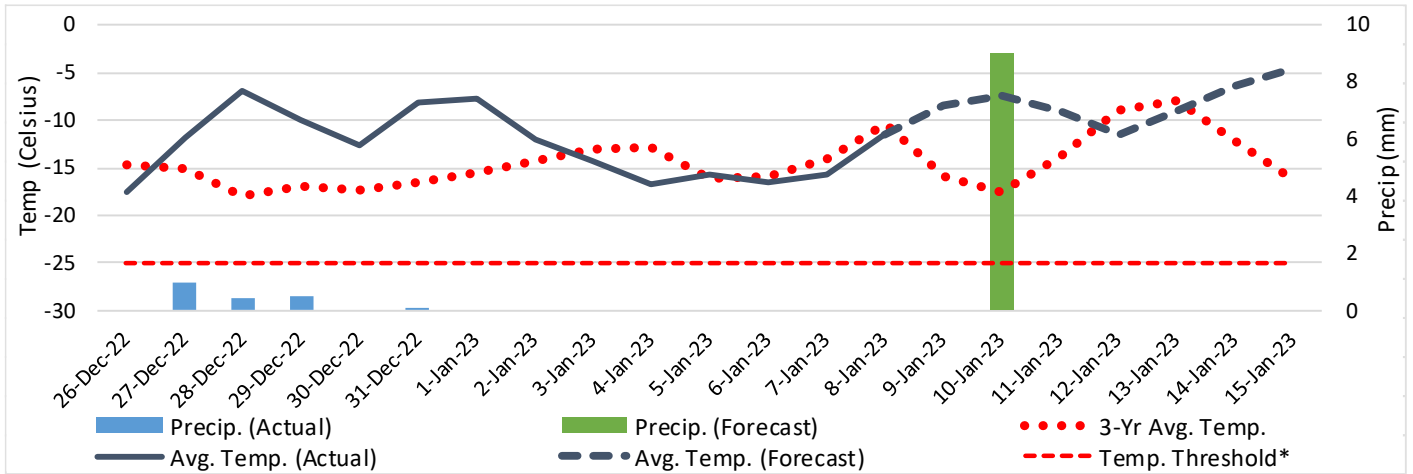
6-D Vessels Cleared at Prince Rupert up to Week 23 2022-23



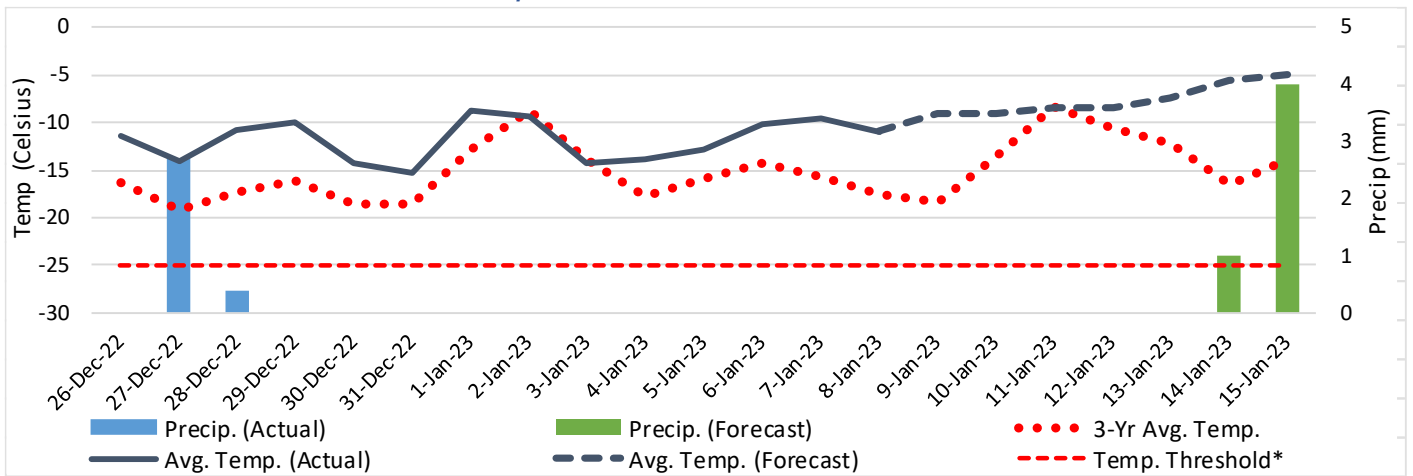
Note: The 'Time in Port' measure for 6-A and 6-C is calculated as how long each vessel in the lineup has been in port as at Sunday 23:59 of that grain week. The 'Avg Time in Port (TIP)' measure for 6-B and 6-D is the average number of days that all vessels which cleared that week were in port. These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

7. Weather

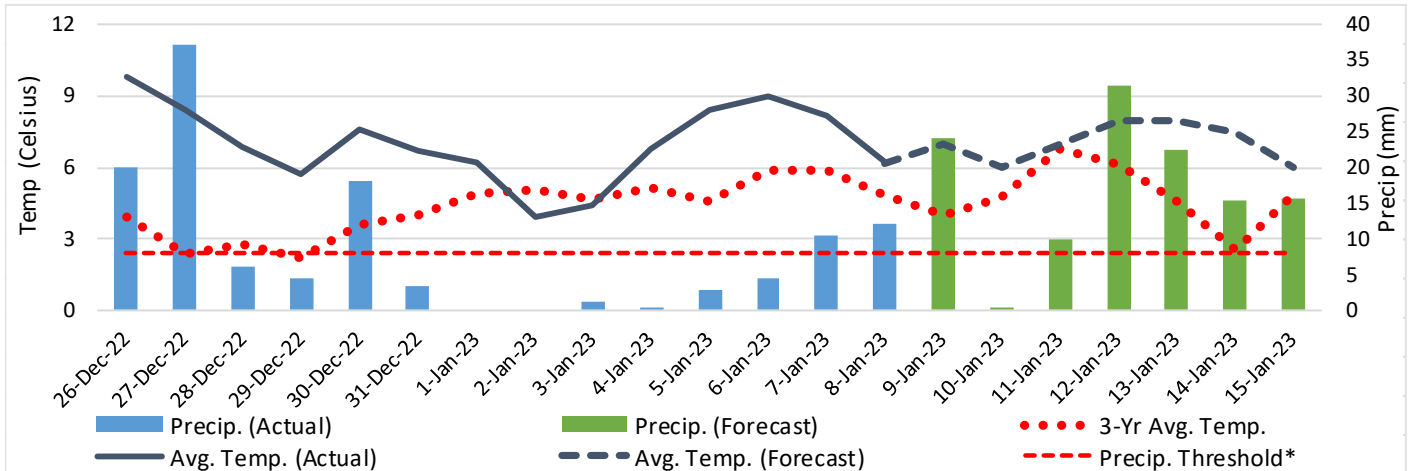
7-A Actual and Forecasted Weather at Winnipeg up to Week 24 2022-23



7-B Actual and Forecasted Weather at Edmonton up to Week 24 2022-23



7-C Actual and Forecasted Weather at Vancouver up to Week 24 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)