

Grain Monitoring Program

Weekly Performance Update

January 11, 2022

For Grain Week 22 (2021-22 CY)

Summary

	Week 22	Week 21	Var. from Last Year	
1. Stocks in Store ('000 tonnes)				
Country Elevators	— 3,770.0	3,770.0	2%	
% of Working Capacity	69%	69%		
Terminal Elevators	— 916.0	916.0	-23%	
% of Working Capacity	48%	48%		
2. Country Deliveries ('000 tonnes)				
Country Deliveries	↑ 348.6	348.6	-42%	
3. Railcar Supply to Western Ports (Cars)				
CN Allocation Plan	↓ 1,916	2,380	-46%	
CN Unloads	↑ 1,756	1,480	-59%	
CP Allocation Plan	n/a	n/a	n/a	
CP Unloads	↑ 2,159	1,741	-47%	
4. Port Performance (Cars)				
Total Weekly Unloads	↑ 3,915	3,221	-53%	
4-Week Rolling Average	↓ 4,737	4,787	n/a	
Var. to 4-Week Rolling Average	↑ -17%	-33%	n/a	
YTD Unloads	↑ 134,780	130,865	-38%	
Weekly Out-of-Car Time	↓ 27.2%	43.4%	596.0%	
5. Terminal Shipments Year-to-Date ('000 tonnes)				
Vancouver	↑ 8,325.0	8,120.1	-38%	
Prince Rupert	↑ 991.8	953.5	-59%	
Churchill	— 0.0	0.0	-100%	
Thunder Bay	↑ 3,365.6	3,230.5	-27%	
Total Western Canada	12,682.4	12,304.1	-38%	
6. Vessels as at Jan 9, 2022				
	Week 23	Week 22	Var. from Last Year	
Vancouver	Vessel Lineup in port	↑ 25	23	-19%
	Vessels Cleared	↓ 1	5	-92%
	Vessels Arrived	↓ 3	6	-77%
Pr. Rupert	Vessel Lineup in port	↓ 1	2	-75%
	Vessels Cleared	↑ 2	0	-33%
	Vessels Arrived	↑ 1	0	-50%
Vessels Inbound Jan 10, 2022 to Jan 16, 2022 (Week 24)				
Vancouver	7			
Prince Rupert	4			
7. Weather				
	Week 22 Actual	Week 23 Actual	Week 24 Forecast	
Winnipeg < -25°C	6	2	0	
Edmonton < -25°C	5	5	0	
Vancouver Days Precip > 8mm	2	5	4	

1. Stocks in Store: (Page 2)

- Country stocks remained at 3.78 MMT in Week 22 utilizing 69% of the system's working capacity. Space in primary elevators is good.
- Total western port terminal stocks remained at 0.92 MMT in Week 22, utilizing 48% of the working capacity.

2. Country Deliveries: (Page 2)

- Deliveries to primary elevators were an average of 0.35 MMT in Week 21 & Week 22.

3. Railcar Supply: (Page 3)

- Railcar allocation plans are supplied by CN to Week 23 2021-22 (see page 3 for details).

4. Port Performance: (Page 4)

- Total western port unloads were 17% lower than the 4-week moving average and 53% lower than Week 22 last year.
- West Coast unloads were 3,298 cars (Vancouver 2,771 and Prince Rupert 527), 10% lower than the 4-week moving average and 51% lower than Week 22 last year.
- Thunder Bay unloads were 617 cars, 41% lower than the 4-week moving average and 64% lower than Week 22 last year.
- Year-to-date total western port unloads are 38% lower than the same period last year. The corresponding tonnage is 38% lower than the same period last year.
- The total average terminal out-of-car time (OCT) decreased to 27.2% from 43.4% in the previous week. The OCT for Week 22 was 25.8% at Vancouver, 82.1% at Prince Rupert, and 1.5% at Thunder Bay.

5. Shipments: (Page 5)

- Year-to-date Western Canadian shipments from port terminal elevators at Week 22 are 38% lower than the same period last year and 23% lower than the 3-year average.
- The Great Lakes – St. Lawrence Seaway System closing of navigation with final clearance dates based on case-by-case permissions:
 - Montreal – Lake Ontario Section: Dec 24 (clear by Jan 01)
 - Welland Canal: Dec 26 (clear by Jan 07)
 - Sault Ste. Marie Locks and Canal: Jan 15

6. Vessels: (Page 5)

- Vancouver vessel lineup for Week 23 2021-22 increased to 25 vessels (The current one-year average at Vancouver is 20 vessels). Of the 25, 7 were at berth, 8 were anchored at English Bay, 2 were anchored at Burrard Inlet, and 8 were anchored at Vancouver Island.
- Prince Rupert vessel lineup for Week 23 2021-22 decreased to 1 vessel (The current one-year average at Prince Rupert is 2 vessels).
- Vessels cleared from Vancouver was 1, and from Prince Rupert was 2 in Week 23 2021-22.

7. Weather:

- Temperatures across the prairies are forecasted above -25C. Railways are not expected to invoke their winter operating plans.
- High amounts of precipitation forecast at Vancouver may affect the ability to load vessels during Week 24.

1. Stocks in Store

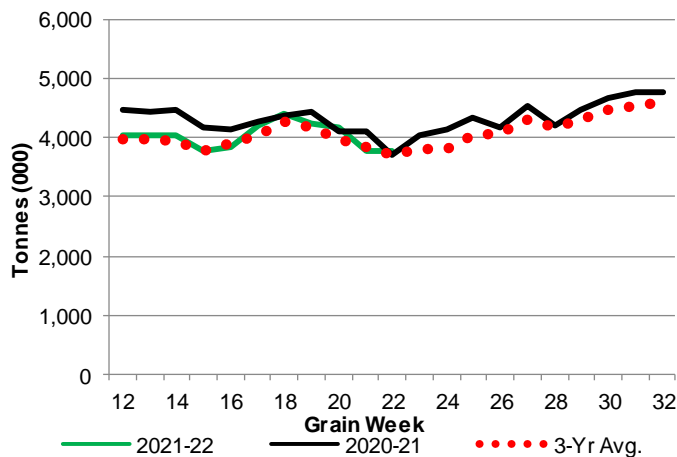
1-A1 Country Stocks ('000 tonnes) – Week 22

	MB	SK	AB	BC	Total
2021-22	635.3	1,824.3	1,284.9	25.5	3,770.0
2020-21	683.3	1,872.4	1,136.6	19.7	3,712.0
3-Yr Avg.	635.7	1,855.3	1,184.1	21.8	3,696.8
Var % - LY	-7%	-3%	13%	29%	2%
Var % 3-Yr Avg.	0%	-2%	9%	17%	2%
Storage Capacity	1,621.8	4,212.1	2,496.4	39.7	8,370.0
Estimated Working Capacity	1,054.2	2,737.9	1,622.7	25.8	5,440.6
21-22 % of Wkg Cap	60%	67%	79%	99%	69%

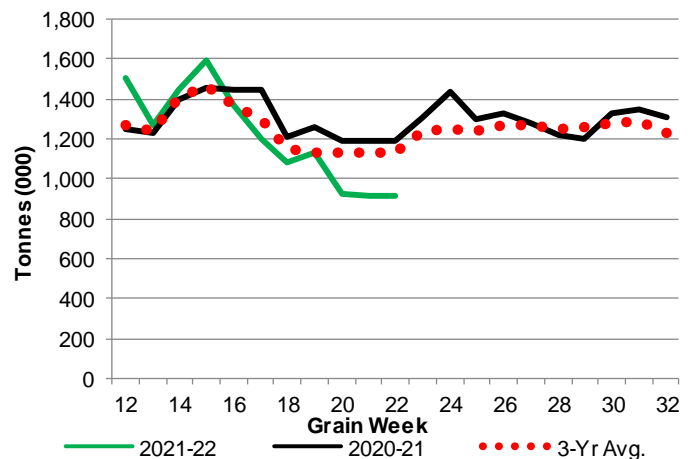
1-B1 Terminal Stocks ('000 tonnes) – Week 22

	VC	PR	West Coast	CH	TB	Total
2021-22	366.9	54.3	421.2	0.7	494.1	916.0
2020-21	708.7	118.6	827.3	0.7	359.7	1,187.7
3-Yr Avg.	591.7	101.1	692.8	0.7	432.8	1,126.3
Var % - LY	-48%	-54%	-49%	0%	37%	-23%
Var % 3-Yr Avg.	-38%	-46%	-39%	0%	14%	-19%
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
21-22 % of Wkg Cap	41%	37%	41%	1%	63%	48%

1-A2 Weekly Country Stocks in Store



1-B2 Weekly Terminal Stocks in Store

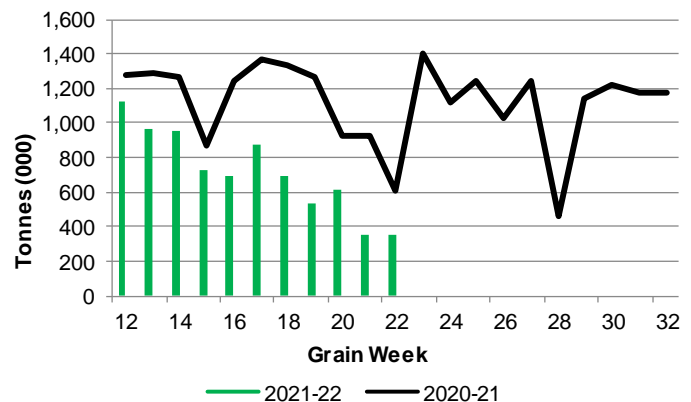


2. Country Deliveries

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

	MB	SK	AB	BC	Total
2021-22	51.9	162.6	132.1	2.2	348.6
2020-21	99.1	348.4	153.5	2.4	603.4
4 Wk Avg	81.3	215.2	162.7	3.7	462.8
Var % to Last Year	-48%	-53%	-14%	-10%	-42%
Var % To 4 Wk Avg	-36%	-25%	-19%	-42%	-25%

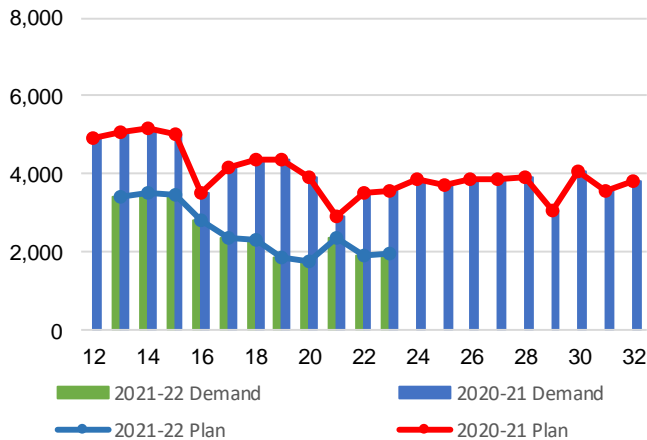
2-B 2019-20 Weekly Country Deliveries



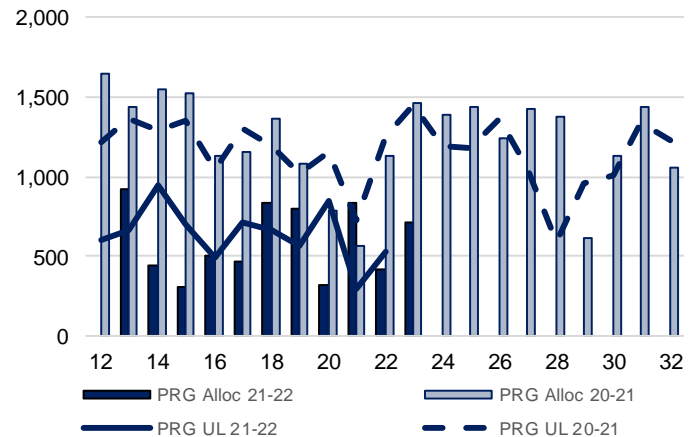
3. Railcar Supply

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 23 2021-22. 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.

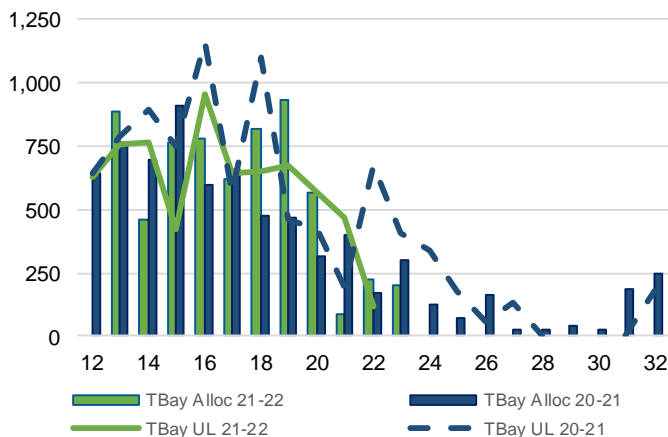
3-A: Canadian National Planned Car Allocation vs. Demand (cars) To Week 23 2021-22



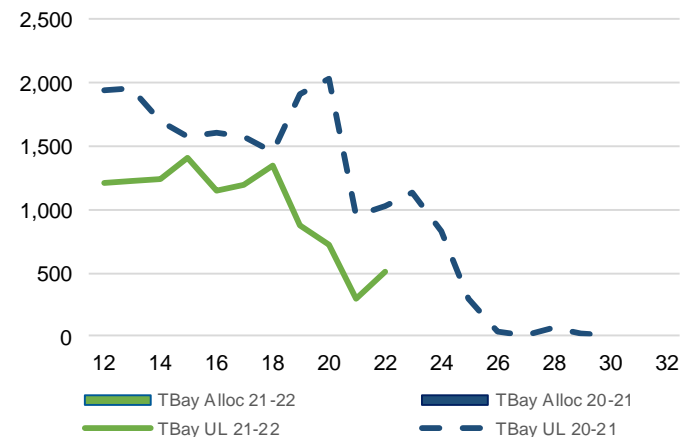
3-B3: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Prince Rupert



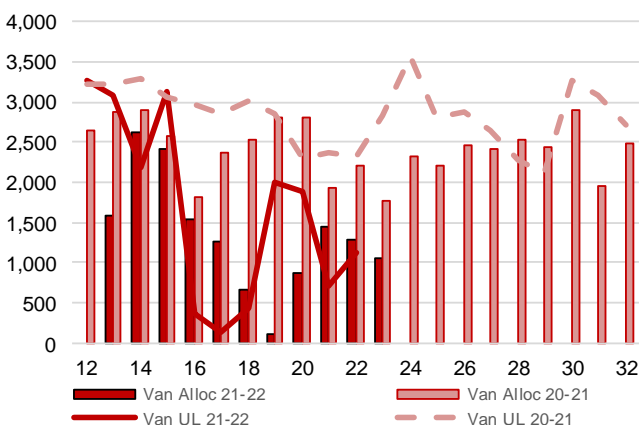
3-B1: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Thunder Bay



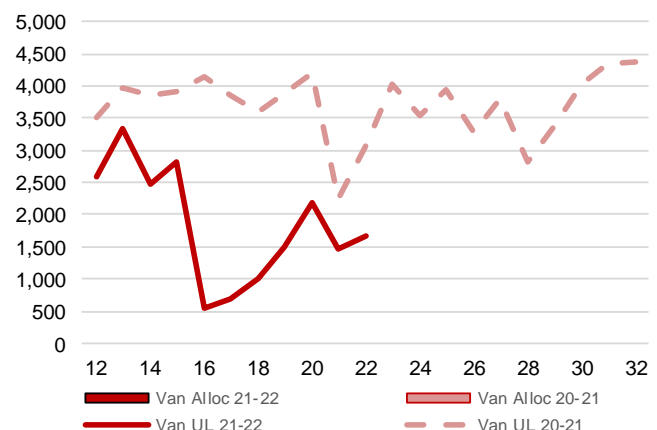
3-C1: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (cars) – Thunder Bay



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
2021-22	2,771	527	3,298	617	-	3,915
2020-21	5,409	1,254	6,663	1,696	-	8,359
4-Wk Avg.	3,121	561	3,683	1,054	-	4,737
Var % to Last Year	-49%	-58%	-51%	-64%	n/a	-53%
Var % to 4-Wk Avg.	-11%	-6%	-10%	-41%	n/a	-17%

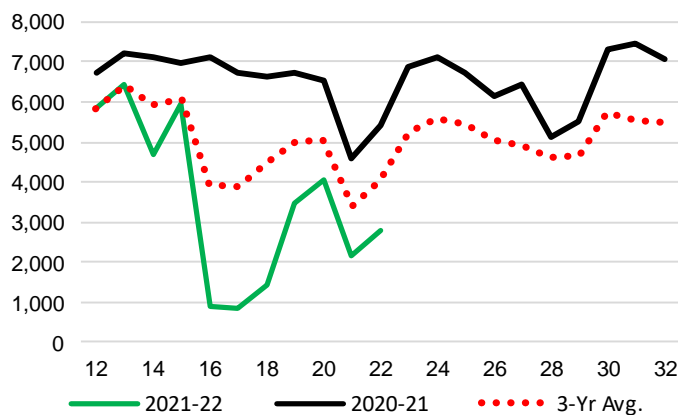
4-B Terminal Unloads by Port – This Year-to-Date as at Week 22 and Variances

YTD Unloads (cars)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2021-22	88,003	11,570	99,573	35,207	-	134,780
2020-21	142,019	25,819	167,838	49,685	1,063	218,586
3-Yr Avg	111,306	20,147	131,453	43,906	846	176,205
Var % to Last Year	-38%	-55%	-41%	-29%	-100%	-38%
Var % to 3-Yr Avg	-21%	-43%	-24%	-20%	-100%	-24%

YTD Unloads ('000 tonnes)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2021-22	8,247.8	1,064.4	9,312.2	3,333.2	-	12,645.4
2020-21	13,172.1	2,409.2	15,581.3	4,644.1	95.5	20,320.9
3-Yr Avg.	10,319.7	1,869.4	12,189.1	4,102.1	76.4	16,367.6
Var % to Last Year	-37%	-56%	-40%	-28%	-100%	-38%
Var % to 3-Yr Avg.	-20%	-43%	-24%	-19%	-100%	-23%

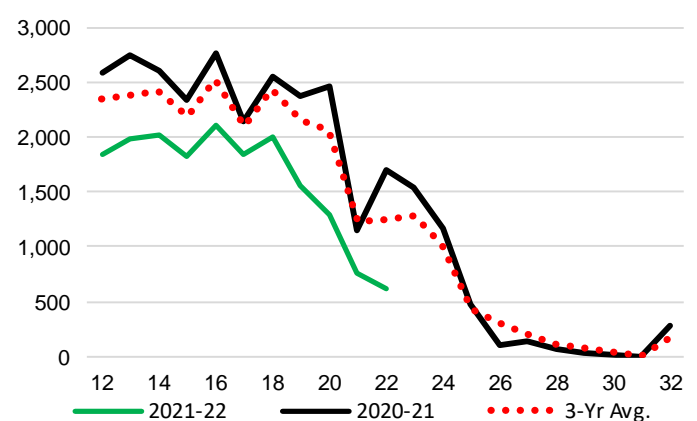
4-C Vancouver Unloads (cars)

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



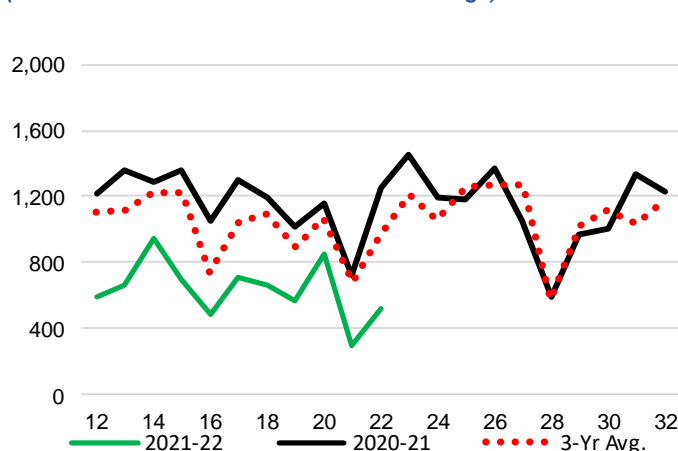
4-E Thunder Bay Unloads (cars)

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

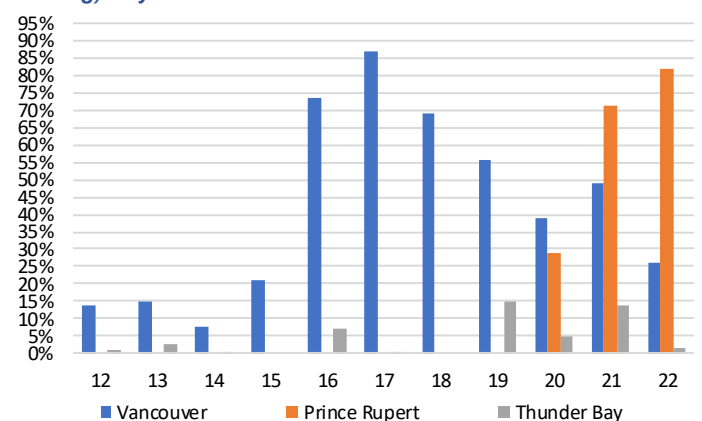


4-D Prince Rupert Unloads (cars)

(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 2021-22

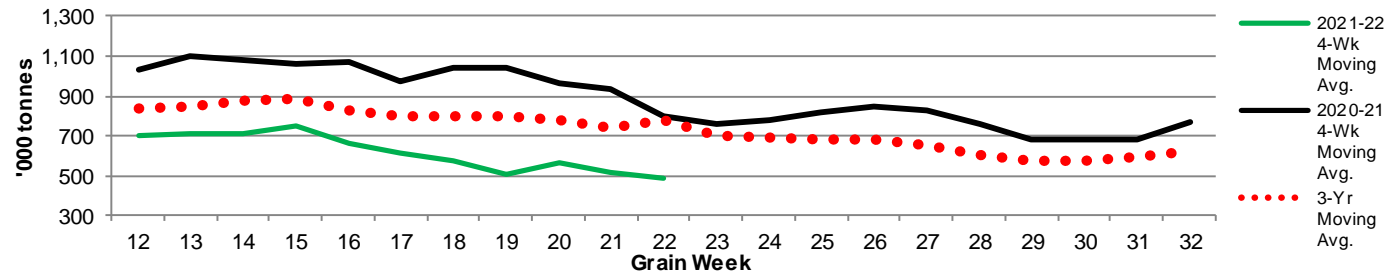
Months	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Weeks	1-4	5-9	10-13	14-17	18-22	23-26	27-30	31-35	36-39	40-43	44-48	49-52
2021-22	17,876	36,841	33,987	23,015	23,061	-	-	-	-	-	-	-
2020-21	35,688	50,352	44,342	42,742	45,462	35,328	28,211	43,126	42,495	34,905	33,574	21,334
3-Yr Avg.	27,793	41,067	38,202	33,316	35,827	29,151	24,353	36,784	38,685	36,117	39,664	28,970
Var % to Last Year	-50%	-27%	-23%	-46%	-49%							
Var % to 3-Yr Avg.	-36%	-10%	-11%	-31%	-36%							

5. Shipments

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

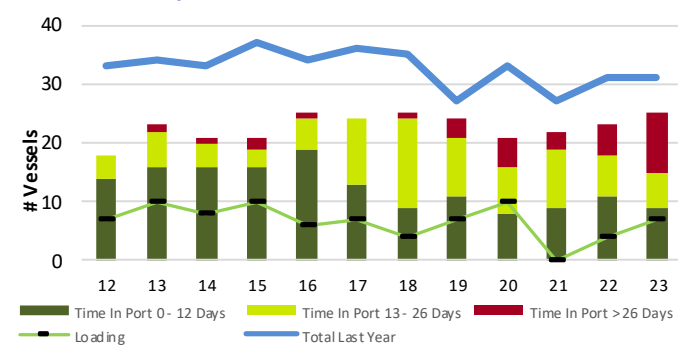
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2021-22	8,325.0	991.8	9,316.8	3,365.6	-	12,682.4
2020-21	13,314.3	2,387.9	15,702.2	4,582.4	95.7	20,380.3
3-Yr Avg.	10,391.8	1,805.5	12,197.3	4,092.0	77.7	16,367.0
Var % to Last Year	-37%	-58%	-41%	-27%	-100%	-38%
Var % to 3-Yr Avg.	-20%	-45%	-24%	-18%	-100%	-23%

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.

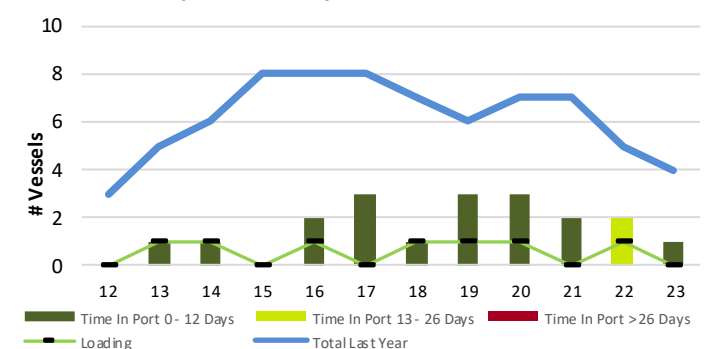


6. Vessels

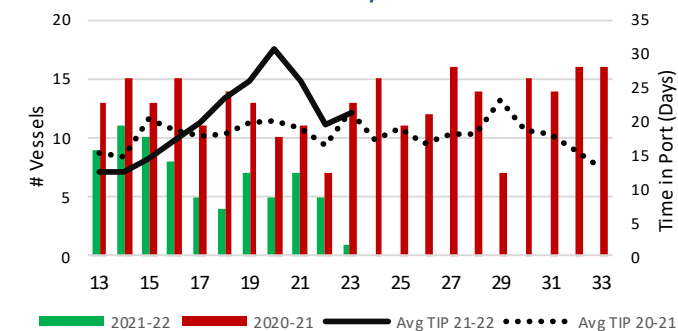
6-A Vessel Lineup at Vancouver as of Week 23 2021-22



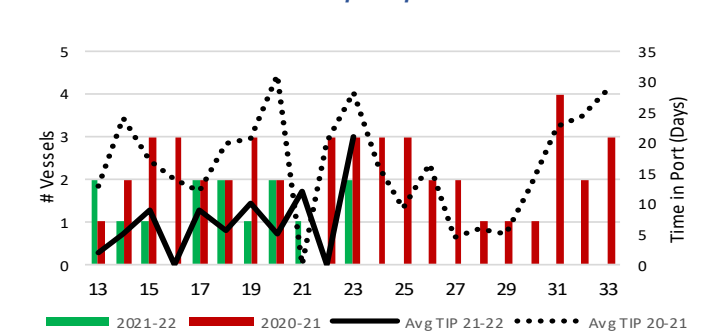
6-C Vessel Lineup at Prince Rupert as of Week 23 2021-22



6-B Vessels Cleared at Vancouver up to Week 23 2021-22



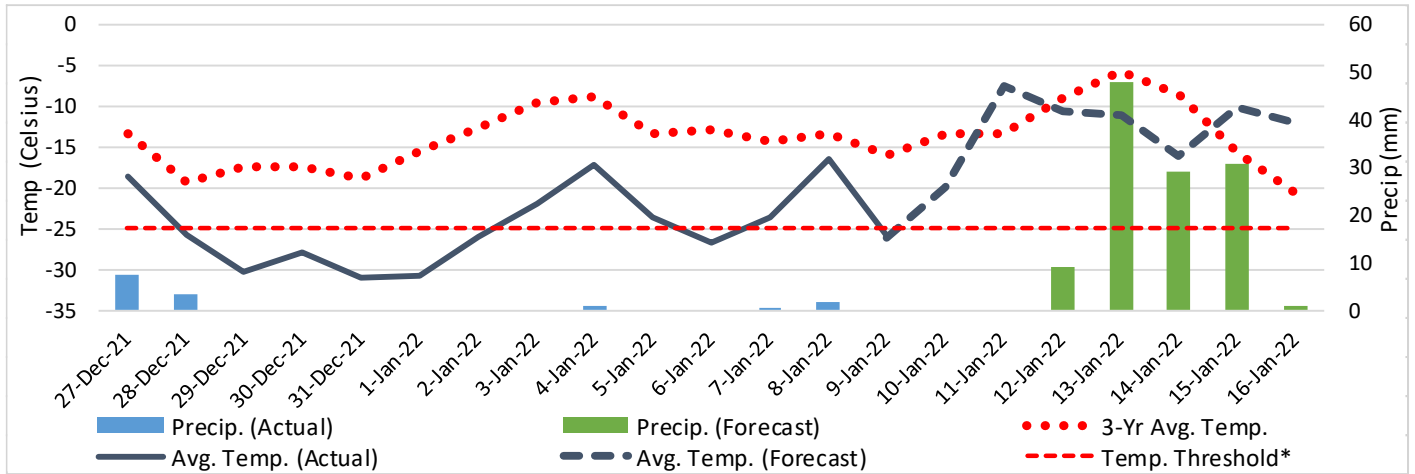
6-D Vessels Cleared at Prince Rupert up to Week 23 2021-22



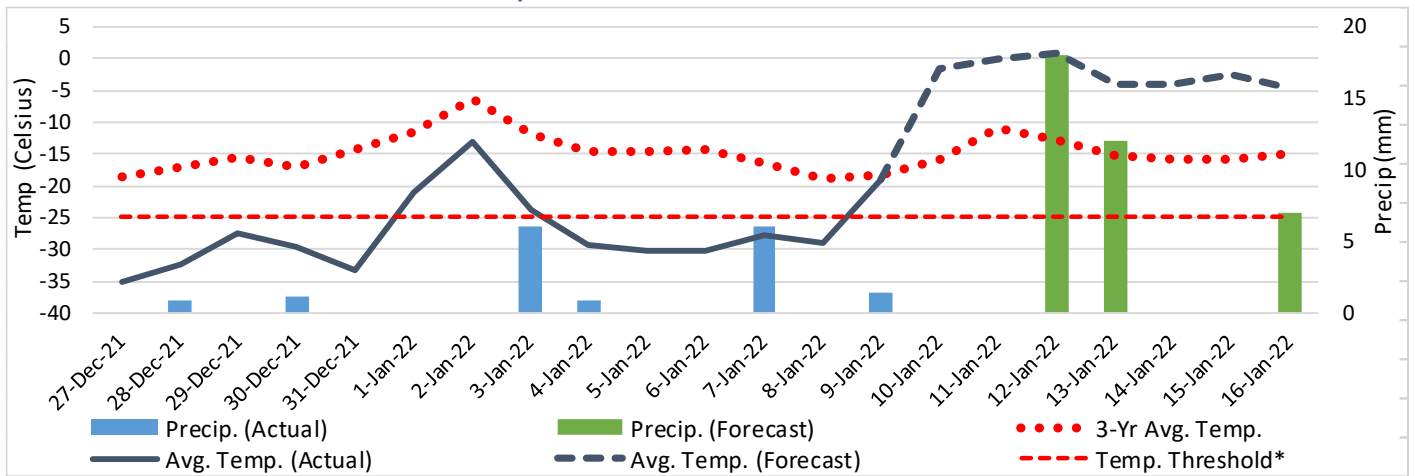
Note: The 'Time in Port' measure for 6-A and 6-C is calculated as how long each vessel in the lineup has been in port as at Sunday 23:59 of that grain week. The 'Avg Time in Port (TIP)' measure for 6-B and 6-D is the average number of days that all vessels which cleared that week were in port. These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

7. Weather

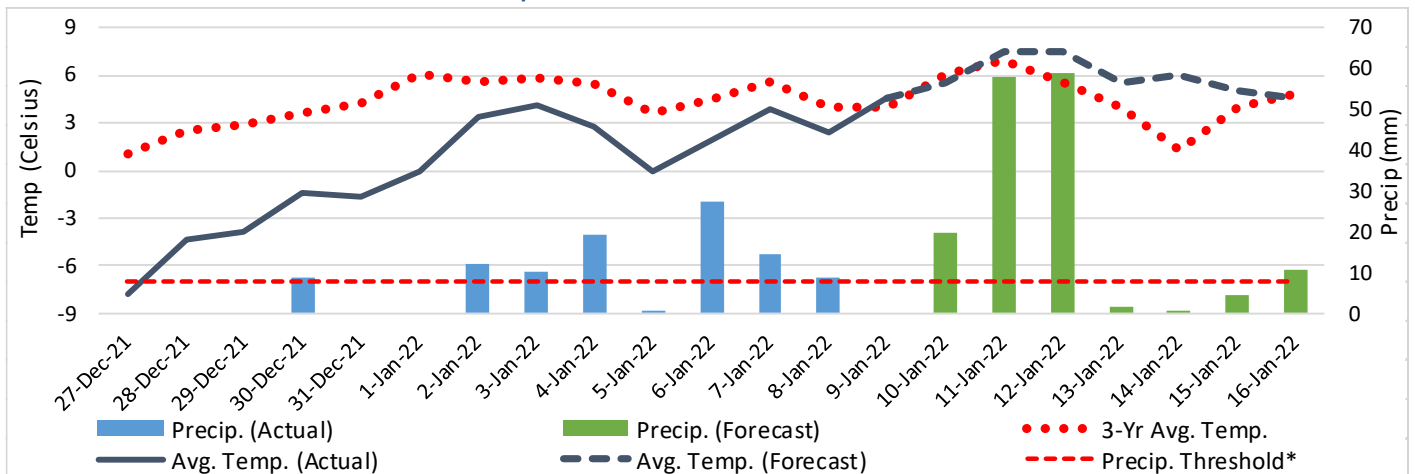
7-A Actual and Forecasted Weather at Winnipeg up to Week 24 2021-22



7-B Actual and Forecasted Weather at Edmonton up to Week 24 2021-22



7-C Actual and Forecasted Weather at Vancouver up to Week 24 2021-22



*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)