

# Grain Monitoring Program

## Weekly Performance Update

December 21, 2021

For Grain Week 19 (2021-22 CY)

### Summary

	Week 19	Week 18	Var. from Last Year	
<b>1. Stocks in Store ('000 tonnes)</b>				
Country Elevators	↓ 4,238.5	4,407.4	-4%	
% of Working Capacity	78%	81%		
Terminal Elevators	↑ 1,126.3	1,085.1	-11%	
% of Working Capacity	58%	56%		
<b>2. Country Deliveries ('000 tonnes)</b>				
Country Deliveries	↓ 538.0	692.0	-58%	
<b>3. Railcar Supply to Western Ports (Cars)</b>				
CN Allocation Plan	↓ 1,851	2,329	-58%	
CN Unloads	↑ 3,244	1,756	-25%	
CP Allocation Plan	n/a	n/a	n/a	
CP Unloads	↑ 2,361	2,358	-59%	
<b>4. Port Performance (Cars)</b>				
Total Weekly Unloads	↑ 5,605	4,114	-45%	
4-Week Rolling Average	↓ 4,151	4,872	n/a	
Var. to 4-Week Rolling Average	↑ 35%	-16%	n/a	
YTD Unloads	↑ 121,437	115,832	-37%	
Weekly Out-of-Car Time	↓ 46.8%	46.9%	203.1%	
<b>5. Terminal Shipments Year-to-Date ('000 tonnes)</b>				
Vancouver	↑ 7,452.4	7,239.7	-37%	
Prince Rupert	↑ 868.6	792.1	-58%	
Churchill	— 0.0	0.0	-100%	
Thunder Bay	↑ 2,857.8	2,721.7	-30%	
Total Western Canada	11,178.8	10,753.5	-39%	
<b>6. Vessels as at Dec 19, 2021</b>				
	<b>Week 20</b>	<b>Week 19</b>	<b>Var. from Last Year</b>	
Vancouver	Vessel Lineup in port	↓ 22	25	-33%
	Vessels Cleared	↓ 5	6	-50%
	Vessels Arrived	↓ 2	6	-88%
Pr. Rupert	Vessel Lineup in port	— 3	3	-57%
	Vessels Cleared	↑ 2	1	0%
Pr.	Vessels Arrived	↓ 2	3	-33%
<b>Vessels Inbound Dec 20, 2021 to Dec 26, 2021 (Week 21)</b>				
Vancouver	9			
Prince Rupert	0			
<b>7. Weather</b>				
	<b>Week 19 Actual</b>	<b>Week 20 Actual</b>	<b>Week 21 Forecast</b>	
Winnipeg < -25°C	0	0	0	
Edmonton < -25°C	0	2	3	
Vancouver Days Precip > 8mm	2	1	5	

### Note to Readers:

On Nov 15, south-western BC experienced a severe climate event that caused extensive damage to road and rail access to and from the Port of Vancouver. Rail lines are operating but repairs are still ongoing during the period covered by this week's report. The next GMP Weekly report will be published Jan 4, 2022.

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

- Country stocks decreased to 4.24 MMT in Week 19 utilizing 78% of the system's working capacity. Space in primary elevators is good.
- Total western port terminal stocks increased to 1.13 MMT in Week 19, utilizing 58% of the working capacity.

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

- Deliveries to primary elevators were 0.54 MMT in Week 19.

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

- Railcar allocation plans are supplied by CN to Week 21 2021-22 (see page 3 for details).

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

- Total western port unloads were 35% higher than the 4-week moving average and 45% lower than Week 19 last year.
- West Coast unloads were 4,056 cars (Vancouver 3,489 and Prince Rupert 567), 78% higher than the 4-week moving average and 48% lower than Week 19 last year.
- Thunder Bay unloads were 1,549 cars, 17% lower than the 4-week moving average and 35% lower than Week 19 last year.
- Year-to-date total western port unloads are 37% lower than the same period last year. The corresponding tonnage is 37% lower than the same period last year.
- The total average terminal out-of-car time (OCT) decreased to 46.8% from 46.9% in the previous week. The OCT for Week 19 was 58.6% at Vancouver and 14.8% at Thunder Bay. At the time of publishing, Prince Rupert had not yet reported Week 19 OCT.

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

- Year-to-date Western Canadian shipments from port terminal elevators at Week 19 are 39% 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 Dec 31)
  - 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 20 2021-22 decreased to 22 vessels (The current one-year average at Vancouver is 20 vessels). Of the 22, 10 were at berth, 6 were anchored at English Bay, 2 were anchored at Burrard Inlet, and 4 were anchored at Vancouver Island.
- Prince Rupert vessel lineup for Week 20 2021-22 remained at 3 vessels (The current one-year average at Prince Rupert is 3 vessels).
- Vessels cleared from Vancouver was 5, and from Prince Rupert was 2 in Week 20 2021-22.

#### 7. Weather:

- Continued high levels of precipitation forecasted for Vancouver in Week 21 may affect the ability to load vessels.

## 1. Stocks in Store

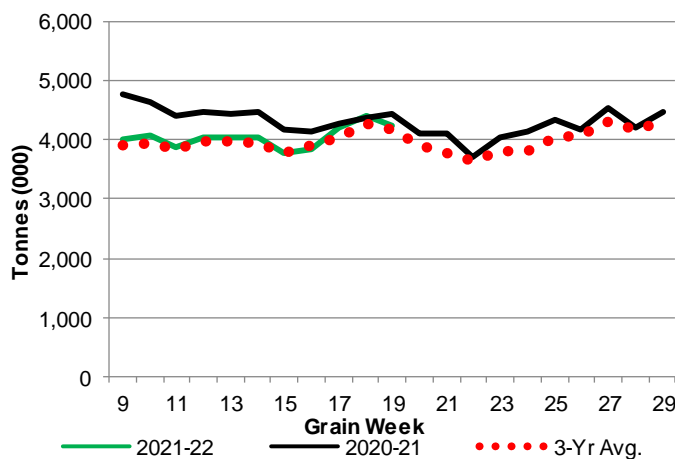
### 1-A1 Country Stocks ('000 tonnes) – Week 19

	MB	SK	AB	BC	Total
2021-22	759.5	1,985.1	1,464.4	29.5	4,238.5
2020-21	857.9	2,202.5	1,340.3	23.6	4,424.3
3-Yr Avg.	759.9	2,056.4	1,321.8	25.3	4,163.4
Var % - LY	-11%	-10%	9%	25%	-4%
Var % 3-Yr Avg.	0%	-3%	11%	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	72%	73%	90%	114%	78%

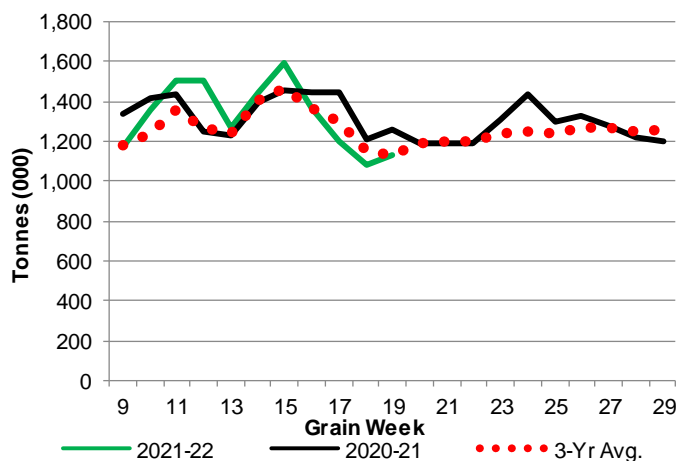
### 1-B1 Terminal Stocks ('000 tonnes) – Week 19

	VC	PR	West Coast	CH	TB	Total
2021-22	451.5	58.3	509.8	0.7	615.8	1,126.3
2020-21	583.4	116.6	700.0	0.7	558.4	1,259.1
3-Yr Avg.	494.1	90.4	584.4	0.7	544.8	1,129.9
Var % - LY	-23%	-50%	-27%	0%	10%	-11%
Var % 3-Yr Avg.	-9%	-36%	-13%	0%	13%	0%
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	51%	40%	49%	1%	78%	58%

### 1-A2 Weekly Country Stocks in Store



### 1-B2 Weekly Terminal Stocks in Store

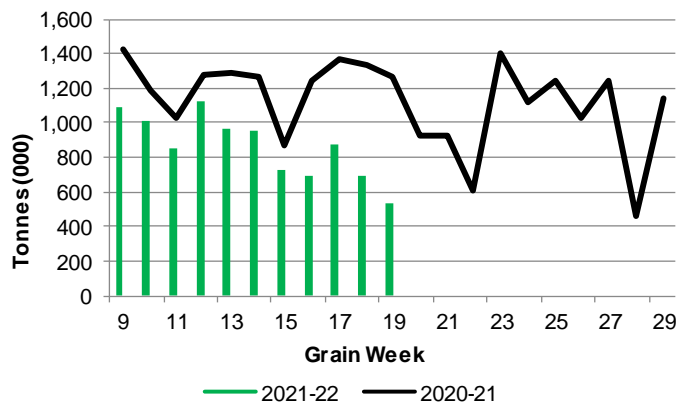


## 2. Country Deliveries

### 2-A Country Deliveries ('000 tonnes) – Week 19

	MB	SK	AB	BC	Total
2021-22	113.4	245.6	173.3	5.7	538.0
2020-21	208.1	707.4	342.6	7.9	1,266.0
4 Wk Avg	160.3	330.3	201.2	7.3	699.1
Var % to Last Year	-46%	-65%	-49%	-28%	-58%
Var % To 4 Wk Avg	-29%	-26%	-14%	-22%	-23%

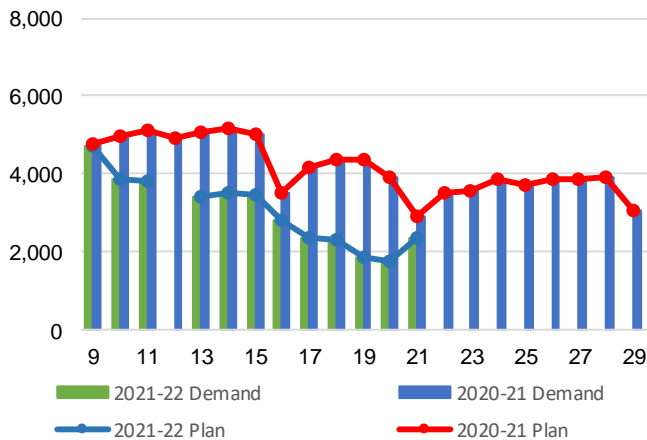
### 2-B 2019-20 Weekly Country Deliveries



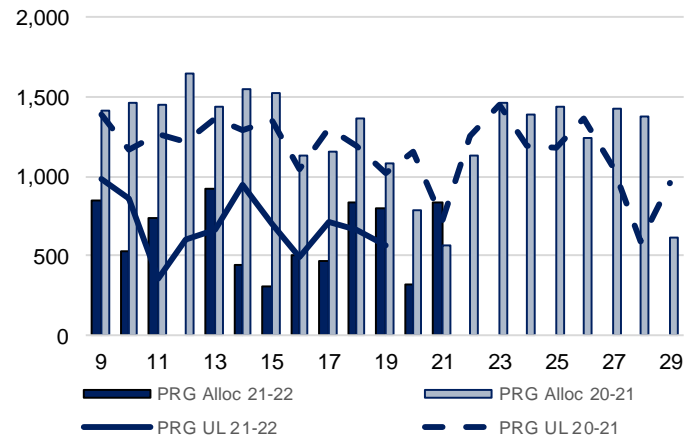
### 3. Railcar Supply

**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 21 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.

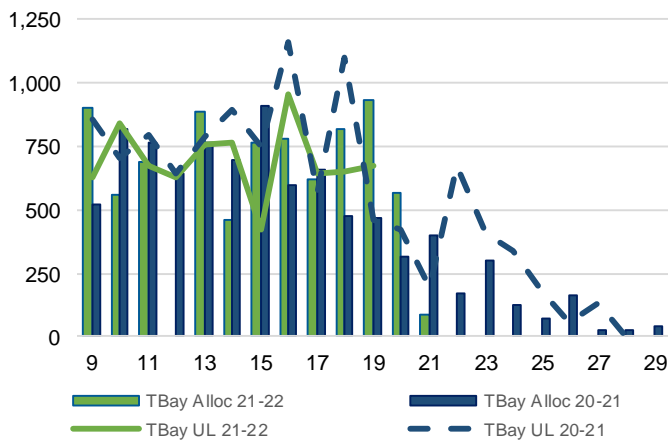
**3-A: Canadian National Planned Car Allocation vs. Demand (cars) To Week 21 2021-22**



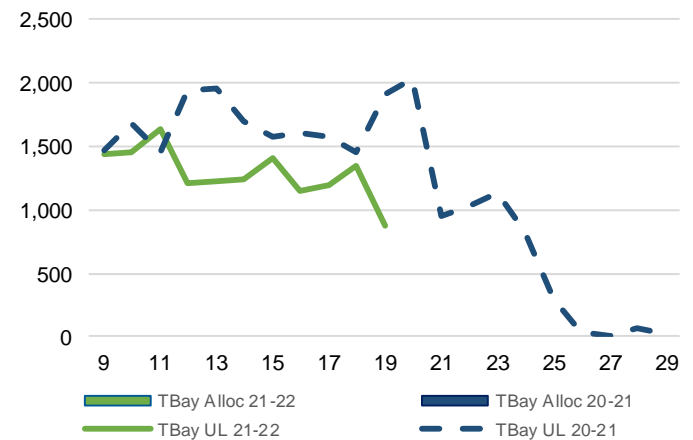
**3-B3: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Prince Rupert**



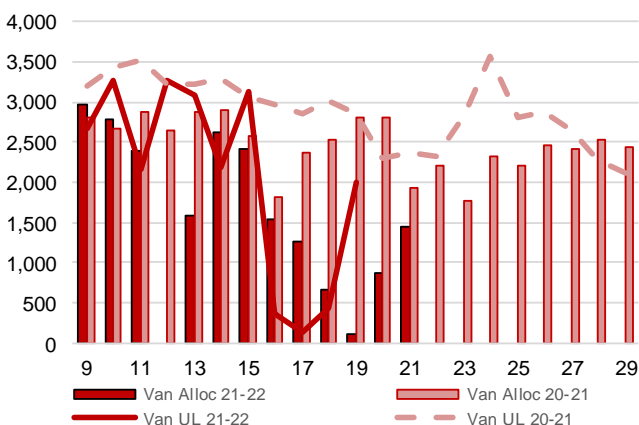
**3-B1: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Thunder Bay**



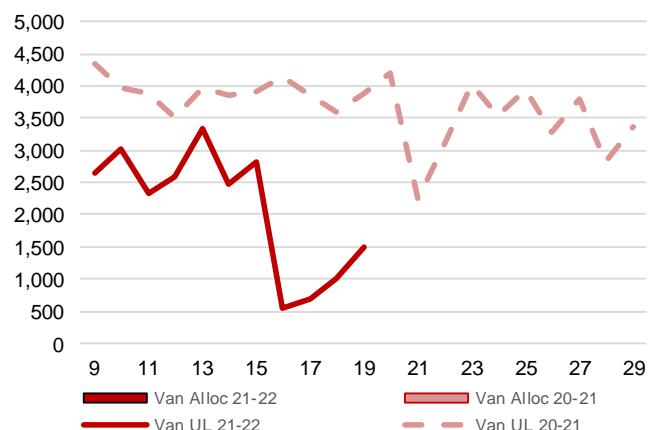
**3-C1: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (cars) – Thunder Bay**



**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 19, 4-Week Moving Average and Variances

	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2021-22	3,489	567	4,056	1,549	-	5,605
2020-21	6,746	1,020	7,766	2,368	-	10,134
4-Wk Avg.	1,669	608	2,276	1,875	-	4,151
Var % to Last Year	-48%	-44%	-48%	-35%	n/a	-45%
Var % to 4-Wk Avg.	109%	-7%	78%	-17%	n/a	35%

### 4-B Terminal Unloads by Port – This Year-to-Date as at Week 19 and Variances

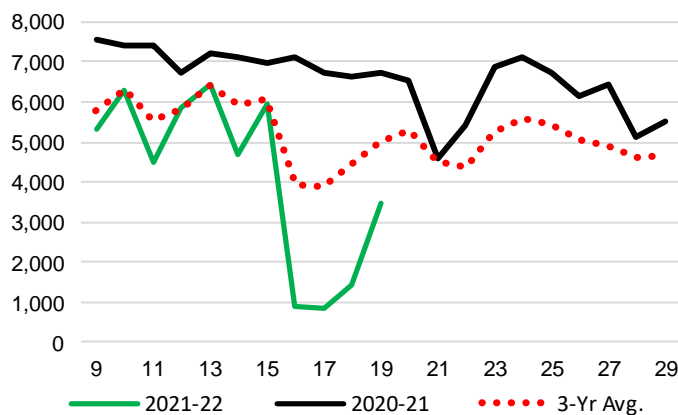
YTD Unloads (cars)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2021-22	79,006	9,892	88,898	32,539	-	121,437
2020-21	125,485	22,686	148,171	44,388	1,063	193,622
3-Yr Avg	98,825	17,425	116,250	39,367	846	156,464
Var % to Last Year	-37%	-56%	-40%	-27%	-100%	-37%
Var % to 3-Yr Avg	-20%	-43%	-24%	-17%	-100%	-22%

YTD Unloads ('000 tonnes)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2021-22	7,398.7	903.4	8,302.1	3,088.0	-	11,390.1
2020-21	11,625.8	2,110.1	13,735.9	4,154.2	95.5	17,985.6
3-Yr Avg.	9,159.6	1,613.1	10,772.8	3,686.5	76.4	14,535.6
Var % to Last Year	-36%	-57%	-40%	-26%	-100%	-37%
Var % to 3-Yr Avg.	-19%	-44%	-23%	-16%	-100%	-22%

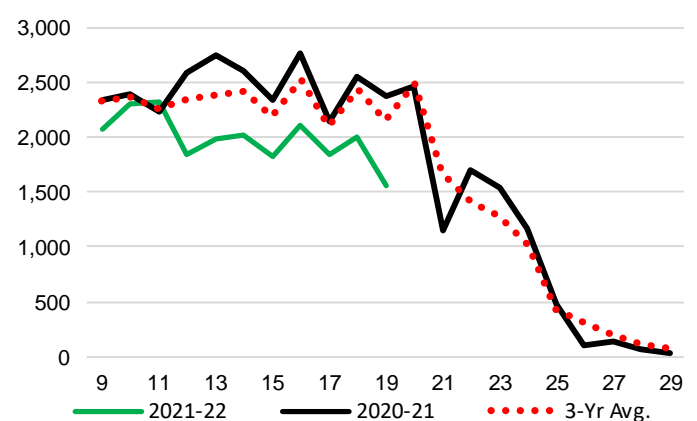
### 4-C Vancouver Unloads (cars)

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



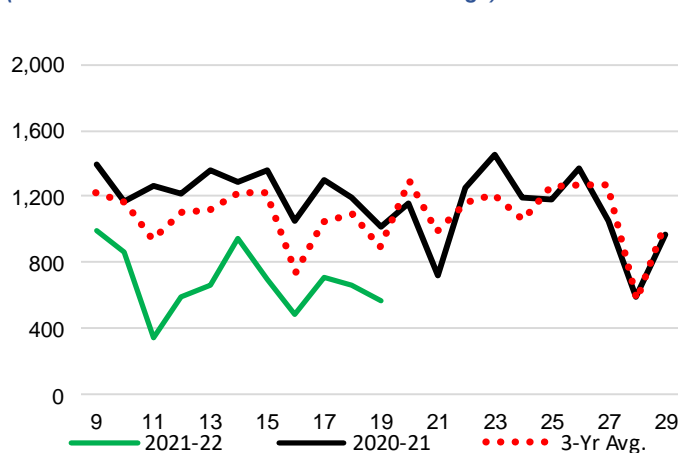
### 4-E Thunder Bay Unloads (cars)

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

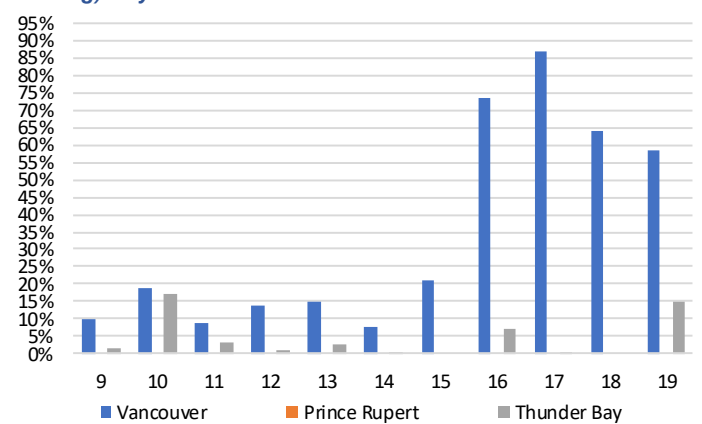


### 4-D Prince Rupert Unloads (cars)

(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 19



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 17 2021-22**

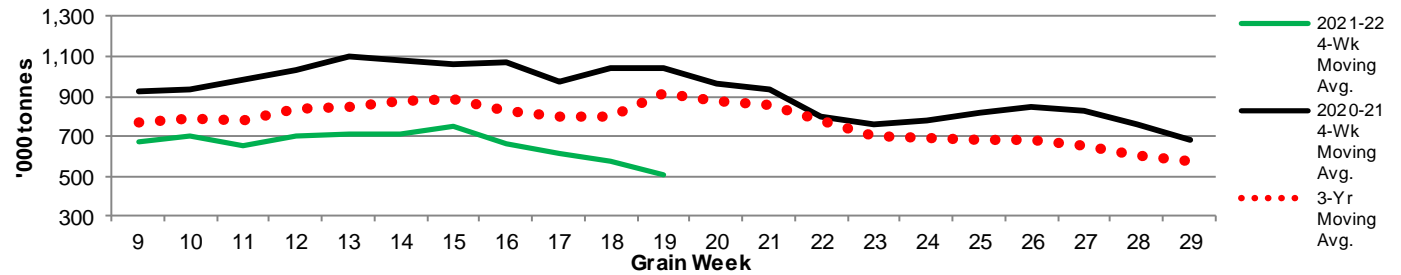
Months	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Weeks	1-4	5-9	10-13	14-17	18-22	23-26	27-30	31-35	36-39	40-43	44-48	49-52
2021-22	17,875	36,841	33,987	23,015	-	-	-	-	-	-	-	-
2020-21	35,688	50,352	44,342	42,742	45,462	35,328	28,211	43,126	42,495	34,905	33,574	21,334
3-Yr Avg.	27,792	41,067	38,202	33,316	42,092	29,151	24,353	36,784	38,685	36,117	39,664	28,970
Var % to Last Year	-50%	-27%	-23%	-46%								
Var % to 3-Yr Avg.	-36%	-10%	-11%	-31%								

**5. Shipments**

**5-A Shipments from Port Terminals ('000 tonnes) – This Year-to-Date as of Week 19 and Variance to Last Year-to-Date**

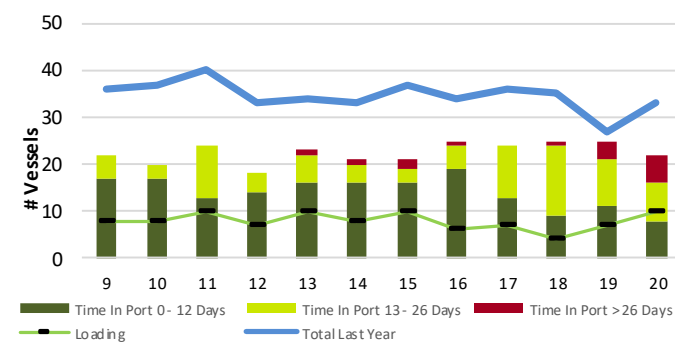
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2021-22	7,452.4	868.6	8,321.0	2,857.8	-	11,178.8
2020-21	11,913.0	2,078.2	13,991.2	4,098.2	95.7	18,185.1
3-Yr Avg.	9,323.9	1,569.3	10,893.1	3,573.5	77.7	14,544.3
Var % to Last Year	-37%	-58%	-41%	-30%	-100%	-39%
Var % to 3-Yr Avg.	-20%	-45%	-24%	-20%	-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.**

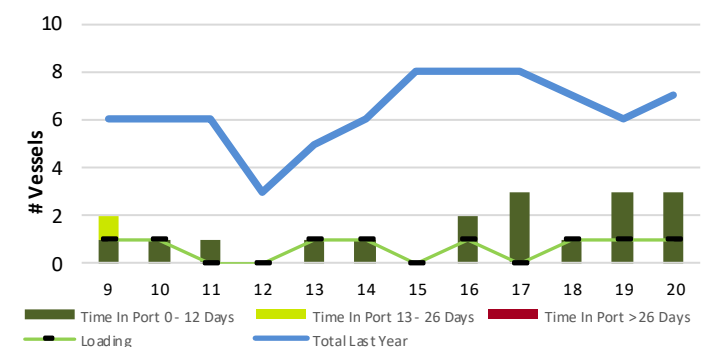


**6. Vessels**

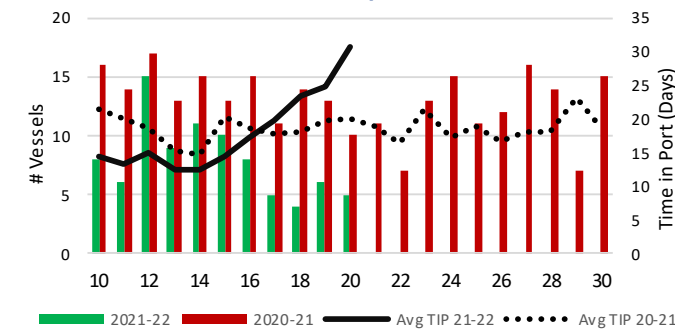
**6-A Vessel Lineup at Vancouver as of Week 20 2021-22**



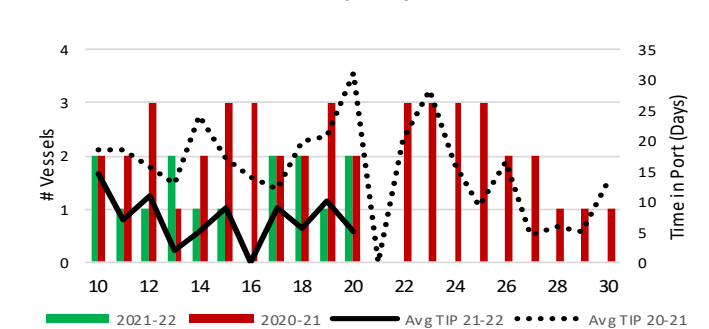
**6-C Vessel Lineup at Prince Rupert as of Week 20 2021-22**



**6-B Vessels Cleared at Vancouver up to Week 20 2021-22**



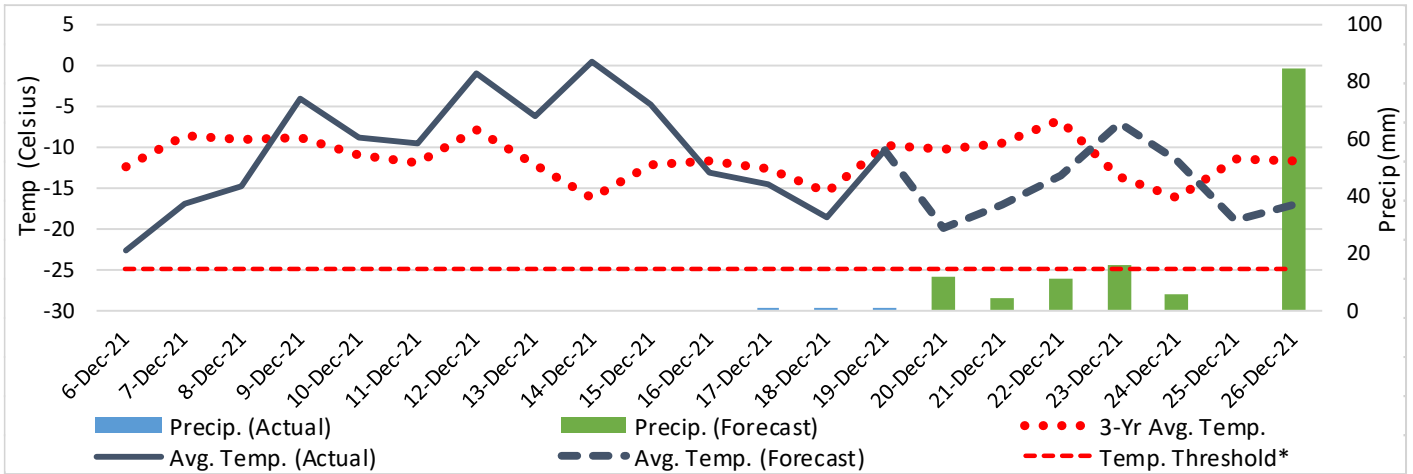
**6-D Vessels Cleared at Prince Rupert up to Week 20 2021-22**



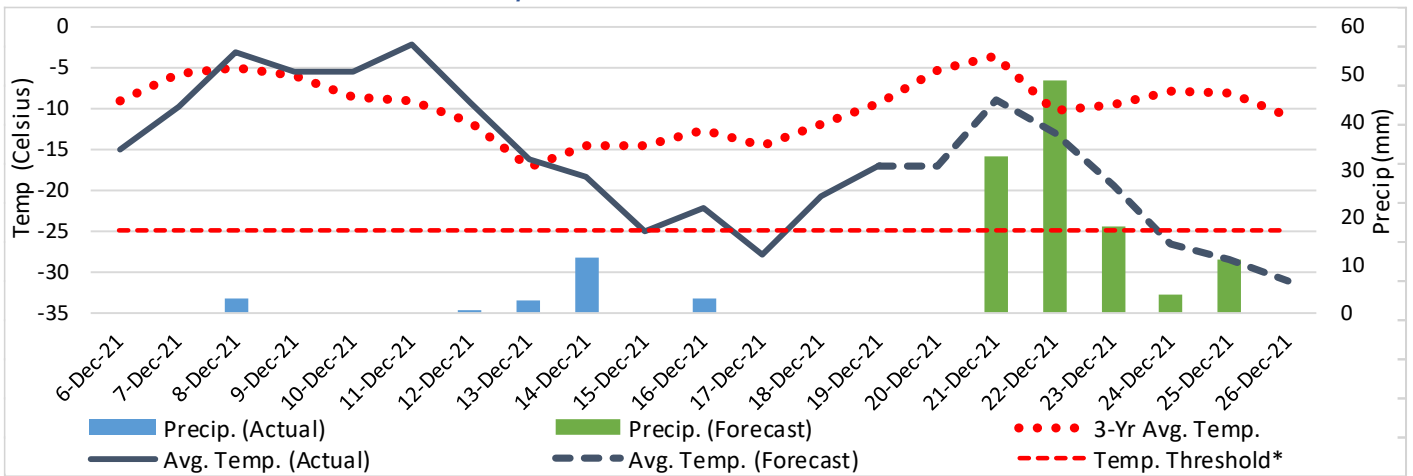
Note: The 'Time in Port' measure for 6-A and 6-C is calculated as how long each vessel in the lineup has been in port as at Sunday 23:59 of that grain week. The 'Avg Time in Port (TIP)' measure for 6-B and 6-D is the average number of days that all vessels which cleared that week were in port. These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

# 7. Weather

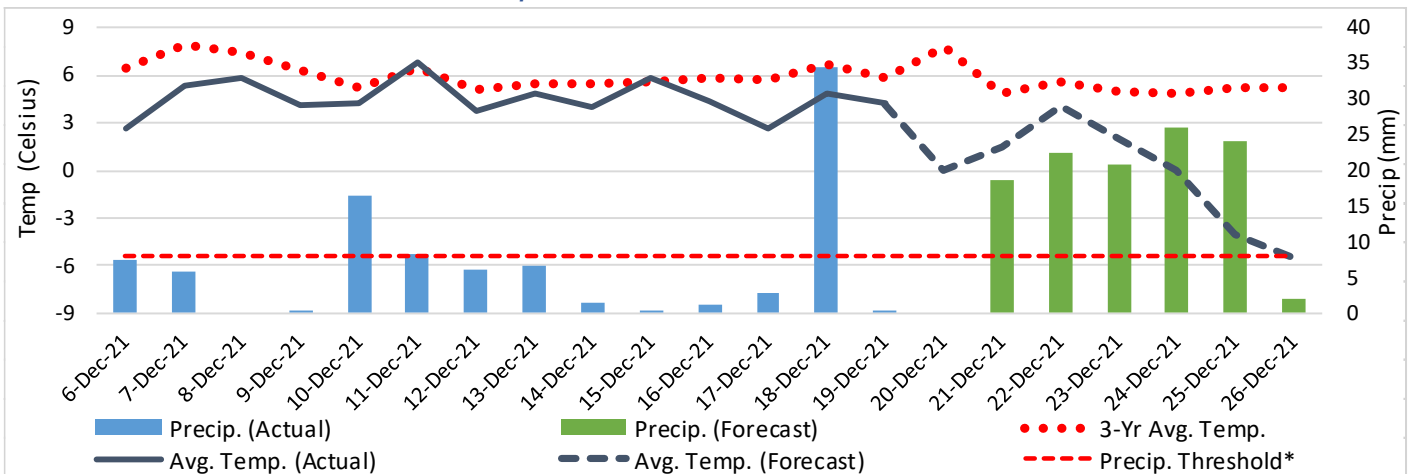
7-A Actual and Forecasted Weather at Winnipeg up to Week 21 2021-22



7-B Actual and Forecasted Weather at Edmonton up to Week 21 2021-22



7-C Actual and Forecasted Weather at Vancouver up to Week 21 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)