

# Grain Monitoring Program

## Weekly Performance Update

March 17, 2020

For Grain Week 31 (2019-20 CY)

### Summary

	Week 31	Week 30	Var. from Last Year	
<b>1. Stocks in Store ('000 tonnes)</b>				
Country Elevators	↑ 4,643.4	4,636.9	10%	
% of Working Capacity	91%	91%		
Terminal Elevators	↑ 1,316.9	1,236.4	9%	
% of Working Capacity	74%	69%		
<b>2. Country Deliveries ('000 tonnes)</b>				
Country Deliveries	↓ 913.8	921.7	0%	
<b>3. Railcar Supply to Western Ports (Cars)</b>				
CN Allocation Plan	↑ 4,297	4,209	45%	
CN Unloads	↓ 3,269	3,846	24%	
CP Allocation Plan	n/a	n/a	n/a	
CP Unloads	↑ 3,059	2,382	54%	
<b>4. Port Performance (Cars)</b>				
Total Weekly Unloads	↑ 6,328	6,228	37%	
4-Week Rolling Average	↑ 5,950	5,622	n/a	
Var. to 4-Week Rolling Average	↓ 6%	11%	n/a	
YTD Unloads	↑ 226,418	220,090	-3%	
Weekly Out-of-Car Time	↓ 15.2%	21.7%	-25.8%	
<b>5. Terminal Shipments Year-to-Date ('000 tonnes)</b>				
Vancouver	↑ 13,339.0	12,908.7	-2%	
Prince Rupert	↑ 2,877.4	2,796.5	-17%	
Churchill	— 137.2	137.2	410%	
Thunder Bay	↑ 4,490.0	4,489.8	7%	
Total Western Canada	20,843.6	20,332.2	-2%	
<b>6. Vessels as at Mar 15, 2020</b>				
	Week 32	Week 31	Var. from Last Year	
Vancouver	Vessel Lineup in port	↓ 41	42	17%
	Vessels Cleared	↑ 12	10	20%
	Vessels Arrived	↑ 11	10	0%
Pr. Rupert	Vessel Lineup in port	— 11	11	83%
	Vessels Cleared	↓ 1	2	0%
	Vessels Arrived	↓ 1	3	-67%
<b>Vessels Inbound Mar 16, 2020 to Mar 22, 2020 (Week 33)</b>				
Vancouver	7			
Prince Rupert	1			
<b>7. Weather</b>				
	Week 31 Actual	Week 32 Actual	Week 33 Forecast	
Winnipeg <-25°C	0	0	0	
Edmonton <-25°C	0	0	0	
Vancouver Days Precip > 8mm	1	0	0	

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

- Country stocks remained at 4.6 MMT in Week 31 utilizing 91% of the system's working capacity. Space in primary elevators is constrained.
- Total western port terminal stocks increased to 1.3 MMT in Week 31, utilizing 74% of the working capacity.

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

- Deliveries to primary elevators were 913,800 tonnes in Week 31.

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

- Railcar allocation plans are supplied by CN to Week 33 of the 2019-20 grain year (see page 3 for details).

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

- Total western port unloads were 6% higher than the 4-week moving average and 37% higher than Week 31 last year.
- West Coast unloads were 6,312 cars (Vancouver 5,408 and Prince Rupert 904), 8% higher than the 4-week moving average and 36% higher than Week 31 last year.
- Thunder Bay unloads were 16 cars, 82% lower than the 4-week moving average. There were no unloads at Thunder Bay in Week 31 last year.
- Year-to-date total western port unloads are 3% lower than the same period last year. The corresponding tonnage is 3% lower than the same period last year.
- The total average terminal out-of-car time (OCT) decreased to 15.2% from 21.7% in the previous week. The OCT for Week 31 was 11.4% at Vancouver (6.9% on the North Shore and 15.2% on the South Shore) and 39.7% at Prince Rupert.

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

- Year-to-date Western Canadian shipments from port terminal elevators at Week 31 are 2% lower than the same period last year and 1% higher than the 3-year average.

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

- Week 32 lineup at Vancouver decreased to 41 vessels (The current one-year average at Vancouver is 25 vessels). Of the 41, 10 were at berth, 11 were anchored at English Bay, 1 was anchored at Burrard Inlet, and 19 were anchored at Vancouver Island.
- Prince Rupert vessel lineup remained at 11 vessels (The current one-year average at Prince Rupert is 6 vessels).
- Vessels cleared from Vancouver were 12, and from Prince Rupert were 1 in Week 32 of the 2019-20 crop year.

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

- Daytime and overnight temperatures across the prairies are forecasted between 0C and -15C. Railways are not expected to invoke their winter operating plans.

## 1. Stocks in Store

### 1-A1 Country Stocks ('000 tonnes) – Week 31

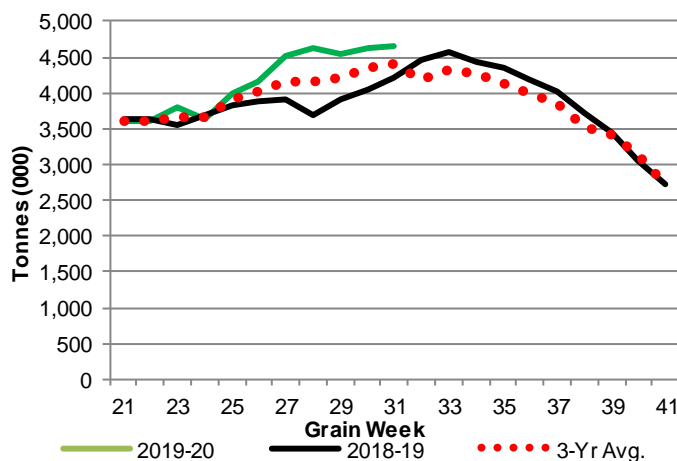
	MB	SK	AB	BC	Total
2019-20	860.3	2,278.2	1,474.6	30.3	4,643.4
2018-19	843.0	2,270.3	1,076.6	18.0	4,207.9
3-Yr Avg.	878.9	2,270.6	1,240.8	26.5	4,416.9
Var % - LY	2%	0%	37%	68%	10%
Var % 3-Yr Avg.	-2%	0%	19%	14%	5%
Storage Capacity	1,604.8	4,047.1	2,169.0	41.1	7,862.0
Estimated Working Capacity	1,043.1	2,630.6	1,409.8	26.7	5,110.2
19-20 % of Wkg Cap	82%	87%	105%	113%	91%

### 1-B1 Terminal Stocks ('000 tonnes) – Week 31

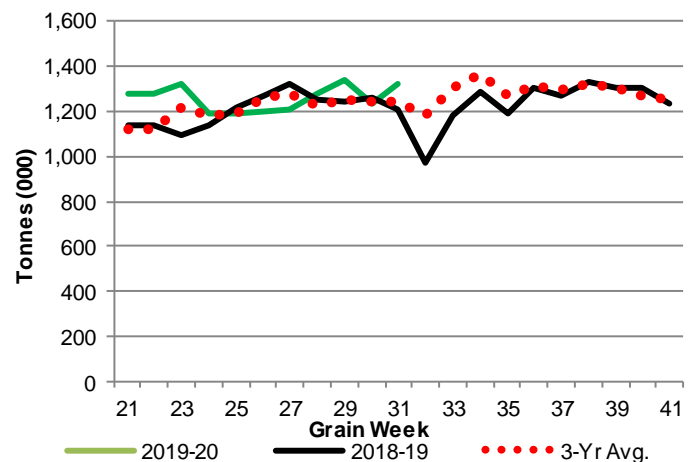
	VC	PR	West Coast	CH	TB	Total
2019-20	594.5	89.8	684.3	0.7	631.9	1,316.9
2018-19	493.1	109	602.1	0.7	600.9	1,203.7
3-Yr Avg.	n/a	n/a	638.7	10.3	596.3	1,245.3
Var % - LY	21%	-18%	14%	0%	5%	9%
Var % 3-Yr Avg.	n/a	n/a	7%	-93%	6%	6%
Storage Capacity	1035.5	209.5	1,245.0	140.0	1,157.5	2,542.5
Estimated Working Capacity	724.9	146.7	871.6	98.0	810.2	1,779.8
19-20 % of Wkg Cap	82%	61%	79%	1%	78%	74%

**Note:** CGC Weekly Statistics between 2013-14 and 2017-18 Crop Years reported Vancouver and Prince Rupert terminal stocks as a combined West Coast total. As of 2018-19 these are separated.

### 1-A2 Weekly Country Stocks in Store



### 1-B2 Weekly Terminal Stocks in Store

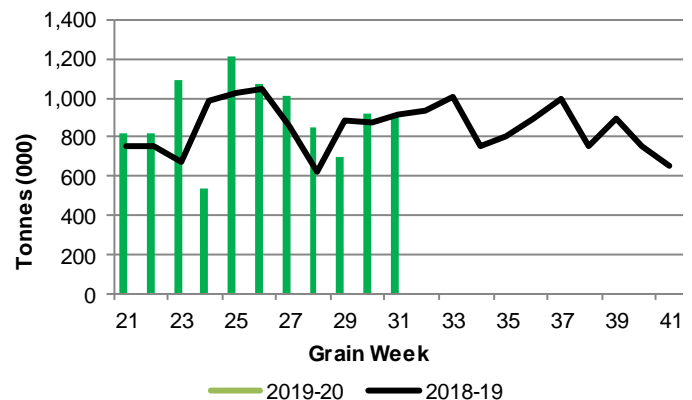


## 2. Country Deliveries

### 2-A Country Deliveries ('000 tonnes) – Week 31

	MB	SK	AB	BC	Total
2019-20	100.7	536.4	270.1	6.6	913.8
2018-19	114.1	488.8	309.5	2.5	914.9
4 Wk Avg	94.1	504.3	242.0	5.6	845.9
Var % to Last Year	-12%	10%	-13%	164%	0%
Var % To 4 Wk Avg	7%	6%	12%	18%	8%

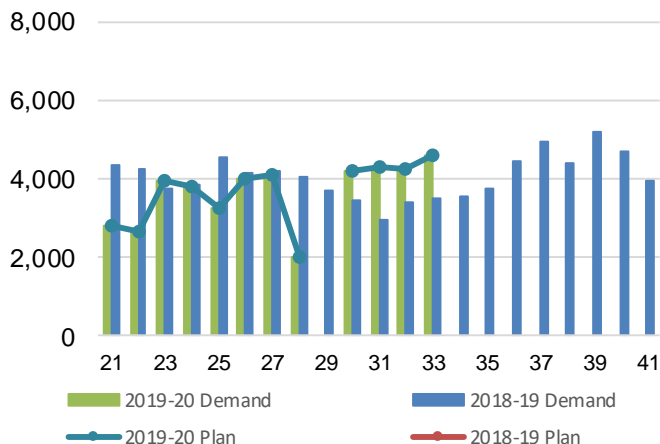
### 2-B 2019-20 Weekly Country Deliveries



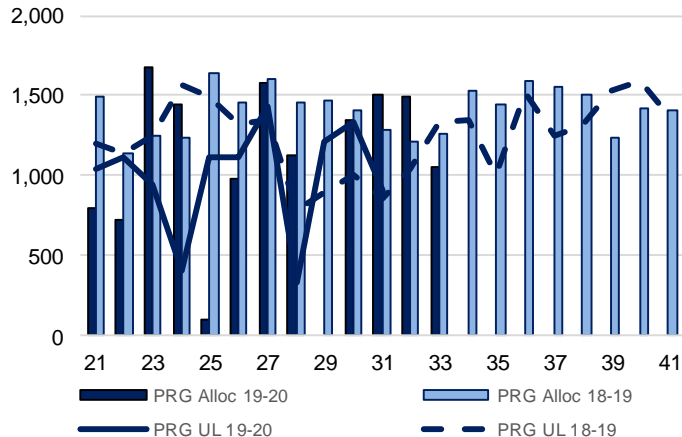
### 3. Railcar Supply

**Special Note to readers:** CP discontinued publishing weekly railcar spotting plans in Week 12 of the 2014-15 crop year (GCRS Service Report). CN continues to publish a weekly plan and the graphs below reflect CN's plan to Week 33 of 2019-20. 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.

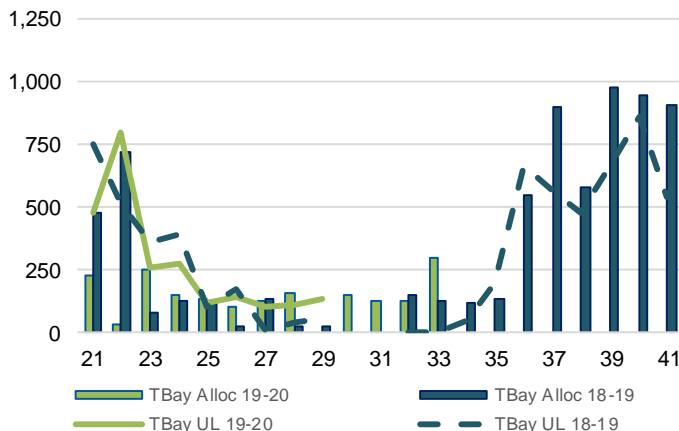
**3-A: Canadian National Planned Car Allocation vs. Demand (cars) To Week 33 2019-20 Crop Year**



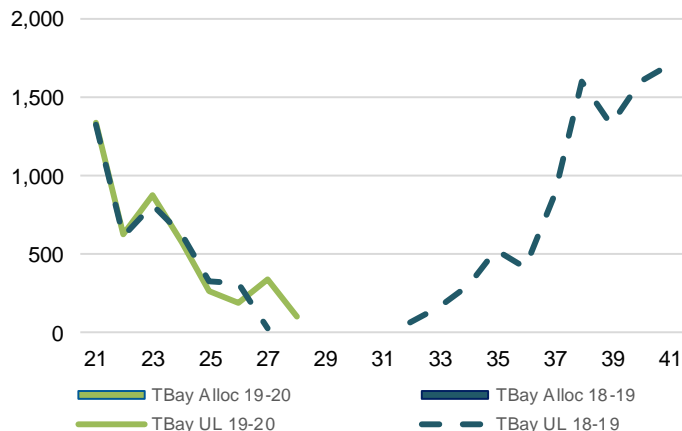
**3-B3: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Prince Rupert**



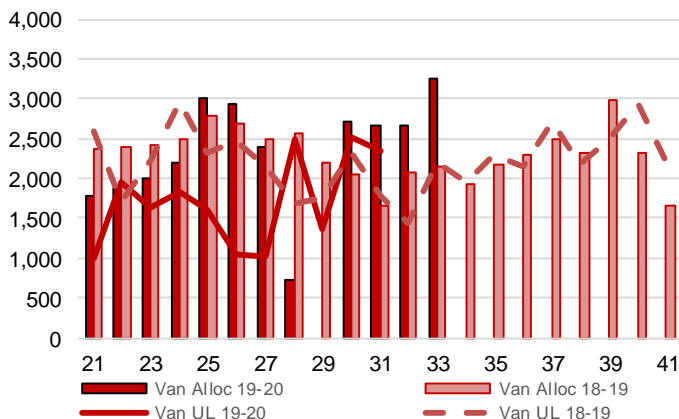
**3-B1: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Thunder Bay**



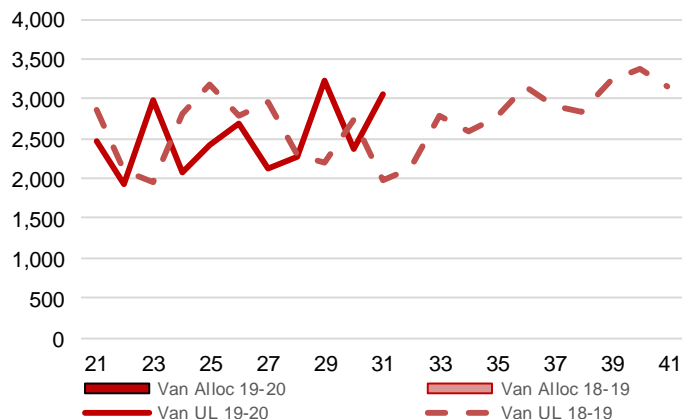
**3-C1: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (cars) – Thunder Bay**



**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 31, 4-Week Moving Average and Variances

	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2019-20	5,408	904	6,312	16	-	6,328
2018-19	3,766	863	4,629	-	-	4,629
4-Wk Avg.	4,913	948	5,861	90	-	5,950
Var % to Last Year	44%	5%	36%	n/a	n/a	37%
Var % to 4-Wk Avg.	10%	-5%	8%	-82%	n/a	6%

### 4-B Terminal Unloads by Port – This Year-to-Date as at Week 31 and Variances

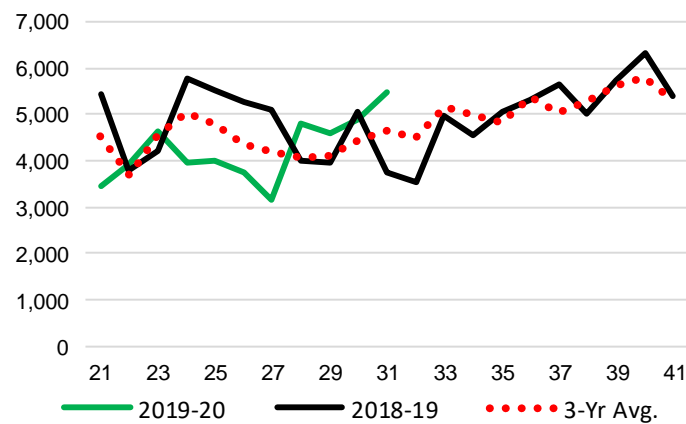
YTD Unloads (cars)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2019-20	142,831	31,845	174,676	50,308	1,434	226,418
2018-19	150,155	37,303	187,458	46,943	-	234,401
3-Yr Avg	145,272	34,115	179,387	47,174	478	227,039
Var % to Last Year	-5%	-15%	-7%	7%	n/a	-3%
Var % to 3-Yr Avg	-2%	-7%	-3%	7%	200%	0%

YTD Unloads ('000 tonnes)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2019-20	13,138.7	2,928.8	16,067.5	4,636.1	133.7	20,837.3
2018-19	13,583.3	3,469.2	17,052.5	4,362.2	-	21,414.7
3-Yr Avg.	13,196.9	3,130.1	16,327.0	4,349.1	44.6	20,720.7
Var % to Last Year	-3%	-16%	-6%	6%	n/a	-3%
Var % to 3-Yr Avg.	0%	-6%	-2%	7%	200%	1%

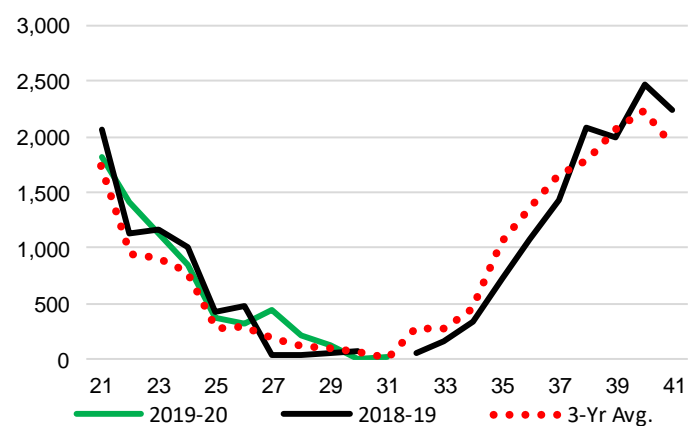
### 4-C Vancouver Unloads (cars)

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



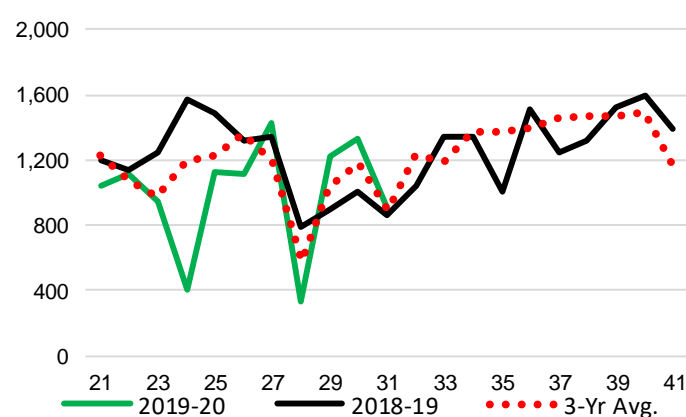
### 4-E Thunder Bay Unloads (cars)

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

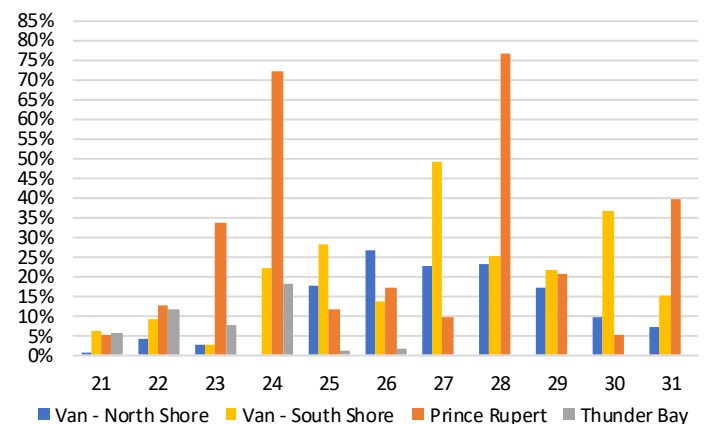


### 4-D Prince Rupert Unloads (cars)

(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 31



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 30 2019-20**

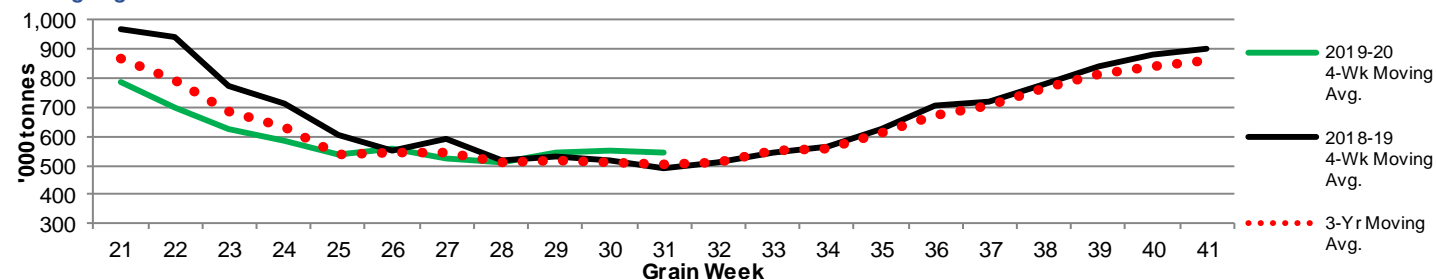
Months	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Weeks	1-4	5-8	9-13	14-17	18-22	23-26	27-30	31-34	35-39	40-43	44-47	48-52
2019-20	29,814	27,575	44,517	34,190	38,959	22,549	22,503	-	-	-	-	-
2018-19	24,252	31,459	43,694	36,751	41,856	29,435	22,325	21,991	40,649	35,180	30,816	38,804
3-Yr Avg.	25,862	30,530	44,283	34,340	39,551	25,742	21,214	24,969	41,308	33,116	28,363	35,739
Var % to Last Year	23%	-12%	2%	-7%	-7%	-23%	1%					
Var % to 3-Yr Avg.	15%	-10%	1%	0%	-1%	-12%	6%					

**5. Shipments**

**5-A Shipments from Port Terminals ('000 tonnes) – This Year-to-Date as of Week 31 and Variance to Last Year-to-Date**

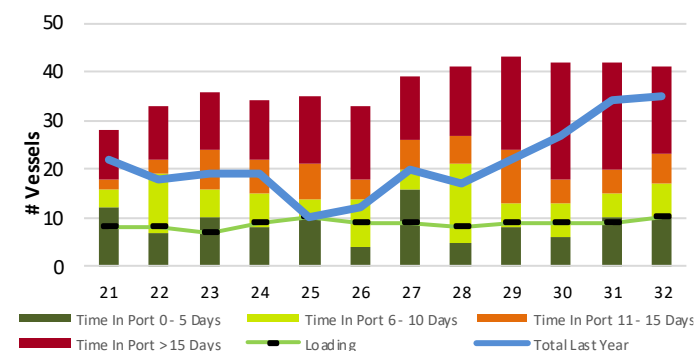
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2019-20	13,339.0	2,877.4	16,216.4	4,490.0	137.2	20,843.6
2018-19	13,568.5	3,461.7	17,030.2	4,211.3	26.9	21,268.4
3-Yr Avg.	13,277.6	3,115.6	16,393.2	4,255.3	54.7	20,703.3
Var % to Last Year	-2%	-17%	-5%	7%	410%	-2%
Var % to 3-Yr Avg.	0%	-8%	-1%	6%	151%	1%

**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.**

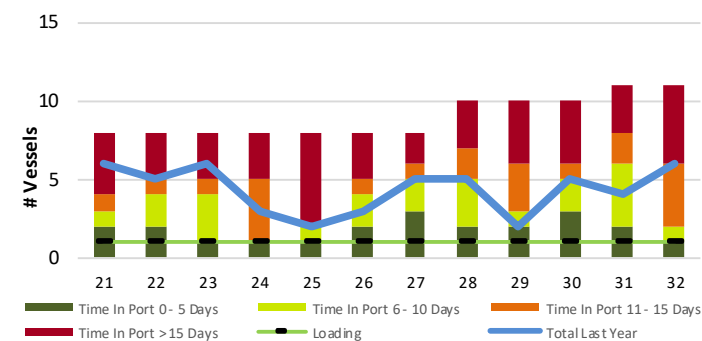


**6. Vessels**

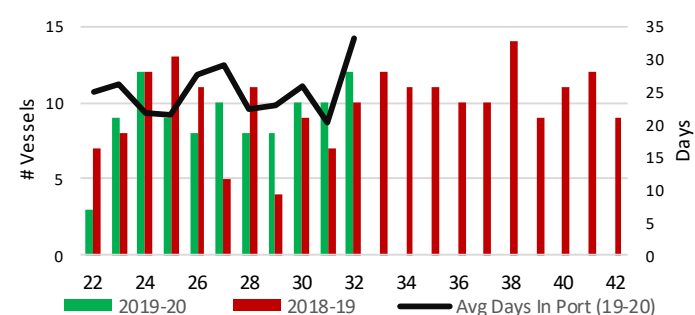
**6-A Vessel Lineup at Vancouver as of Week 32 2019-20**



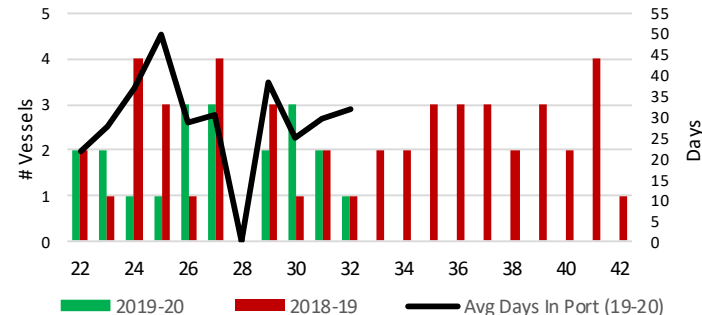
**6-C Vessel Lineup at Prince Rupert as of Week 32 2019-20**



**6-B Vessels Cleared at Vancouver up to Week 32 2019-20**



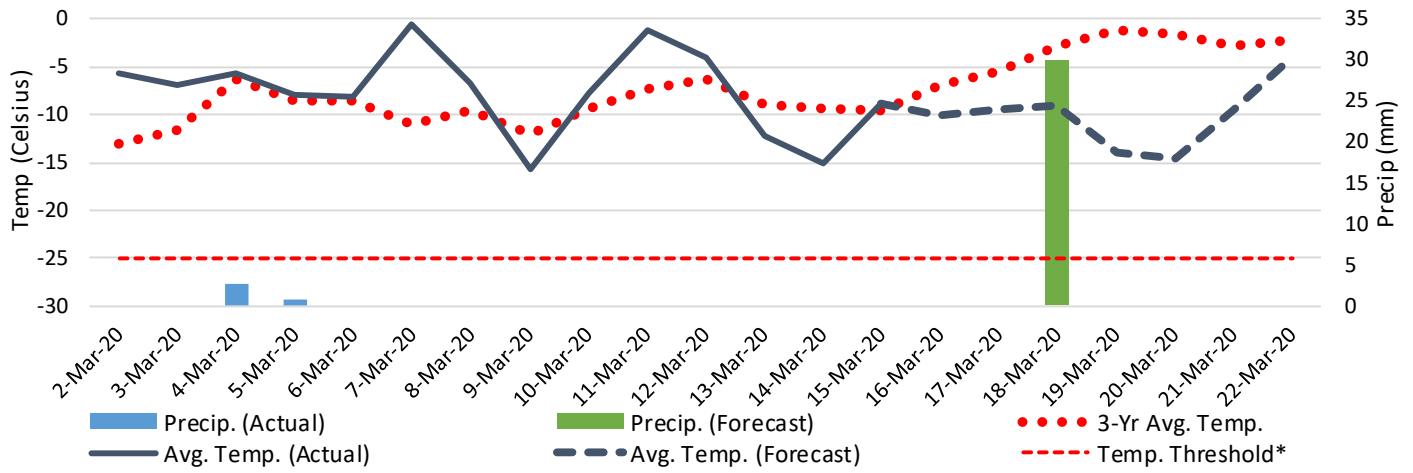
**6-D Vessels Cleared at Prince Rupert up to Week 32 2019-20**



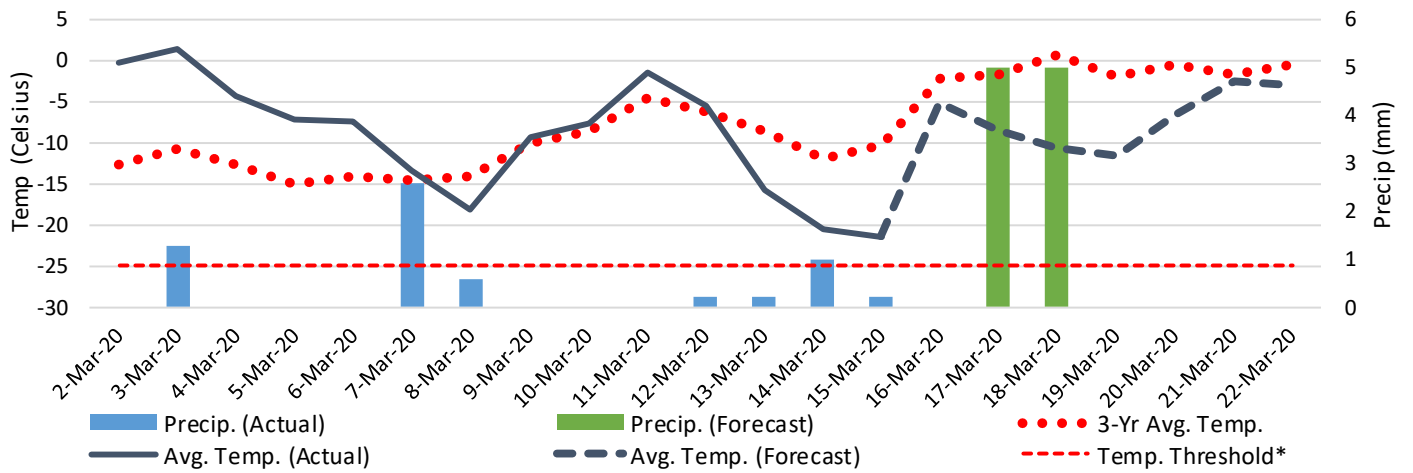
Note: The 'Time in Port' measure for 6-A and 6-C is calculated as how long each vessel in the lineup has been in port as at Sunday of that grain week. The 'Avg Days in Port' measure for 6-B and 6-D is the average number of days that all vessels which cleared that week were in port. These measures use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

# 7. Weather

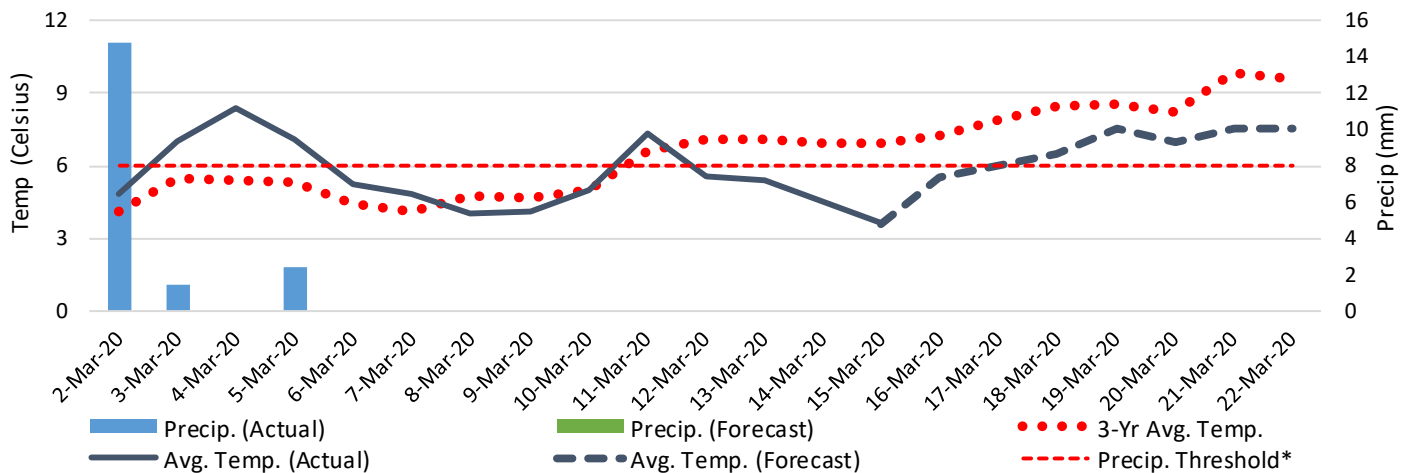
7-A Actual and Forecasted Weather at Winnipeg up to Week 33



7-B Actual and Forecasted Weather at Edmonton up to Week 33



7-C Actual and Forecasted Weather at Vancouver up to Week 33



\*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)