

Grain Monitoring Program

Weekly Performance Update

March 24, 2020

For Grain Week 32 (2019-20 CY)

Summary

	Week 32	Week 31	Var. from Last Year	
1. Stocks in Store ('000 tonnes)				
Country Elevators	↓ 4,622.8	4,643.4	4%	
% of Working Capacity	90%	91%		
Terminal Elevators	↑ 1,419.0	1,316.9	46%	
% of Working Capacity	80%	74%		
2. Country Deliveries ('000 tonnes)				
Country Deliveries	↑ 994.2	913.8	7%	
3. Railcar Supply to Western Ports (Cars)				
CN Allocation Plan	↓ 4,275	4,297	25%	
CN Unloads	↑ 3,478	3,270	40%	
CP Allocation Plan	n/a	n/a	n/a	
CP Unloads	↑ 3,616	3,061	66%	
4. Port Performance (Cars)				
Total Weekly Unloads	↑ 7,094	6,331	52%	
4-Week Rolling Average	↑ 6,400	5,951	n/a	
Var. to 4-Week Rolling Average	↑ 11%	6%	n/a	
YTD Unloads	↑ 233,515	226,421	-2%	
Weekly Out-of-Car Time	↓ 13.7%	15.2%	-36.2%	
5. Terminal Shipments Year-to-Date ('000 tonnes)				
Vancouver	↑ 13,887.4	13,397.0	-1%	
Prince Rupert	↑ 2,917.3	2,877.4	-18%	
Churchill	— 137.2	137.2	410%	
Thunder Bay	— 4,490.0	4,490.0	7%	
Total Western Canada	21,431.9	20,901.6	-1%	
6. Vessels as at Mar 22, 2020				
	Week 33	Week 32	Var. from Last Year	
Vancouver	Vessel Lineup in port	↓ 36	40	20%
	Vessels Cleared	— 13	13	8%
	Vessels Arrived	↓ 9	11	29%
Pr. Rupert	Vessel Lineup in port	↓ 9	11	50%
	Vessels Cleared	↑ 3	1	50%
	Vessels Arrived	— 1	1	-50%
Vessels Inbound Mar 23, 2020 to Mar 29, 2020 (Week 34)				
Vancouver	7			
Prince Rupert	0			
7. Weather				
	Week 32 Actual	Week 33 Actual	Week 34 Forecast	
Winnipeg <-25°C	0	0	0	
Edmonton <-25°C	0	0	0	
Vancouver Days Precip > 8mm	0	0	4	

1. Stocks in Store: (Page 2)

- Country stocks remained at 4.6 MMT in Week 32 utilizing 90% of the system's working capacity. Space in primary elevators remains constrained.
- Total western port terminal stocks increased to 1.4 MMT in Week 32, utilizing 80% of the working capacity.

2. Country Deliveries: (Page 2)

- Deliveries to primary elevators were 994,200 tonnes in Week 32.
- Axel weight restrictions (Road Bans) are coming into effect across the prairies. Saskatchewan's started Monday, March 23. Alberta's start Thursday, March 26. They will be introduced in stages in Manitoba starting Friday, March 27.

3. Railcar Supply: (Page 3)

- Railcar allocation plans are supplied by CN to Week 34 of the 2019-20 grain year (see page 3 for details).

4. Port Performance: (Page 4)

- Total western port unloads were 11% higher than the 4-week moving average and 52% higher than Week 32 last year.
- West Coast unloads were 6,919 cars (Vancouver 5,652 and Prince Rupert 1,267), 10% higher than the 4-week moving average and 51% higher than Week 32 last year.
- Thunder Bay unloads were 175 cars, 115% higher than the 4-week moving average and 178% higher than Week 32 last year.
- Year-to-date total western port unloads are 2% lower than the same period last year. The corresponding tonnage is 2% lower than the same period last year.
- The total average terminal out-of-car time (OCT) decreased to 13.7% from 15.2% in the previous week. The OCT for Week 32 was 15.1% at Vancouver (13.8% on the North Shore and 16.2% on the South Shore) and 4.0% at Prince Rupert.

5. Shipments: (Page 5)

- Year-to-date Western Canadian shipments from port terminal elevators at Week 32 are 1% lower than the same period last year and 1% higher than the 3-year average.

6. Vessels: (Page 5)

- Week 33 lineup at Vancouver decreased to 36 vessels (The current one-year average at Vancouver is 25 vessels). Of the 36, 9 were at berth, 12 were anchored at English Bay, 1 was anchored at Burrard Inlet, and 14 were anchored at Vancouver Island.
- Prince Rupert vessel lineup decreased to 9 vessels (The current one-year average at Prince Rupert is 6 vessels).
- Vessels cleared from Vancouver were 13, and from Prince Rupert was 3 in Week 33 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 32

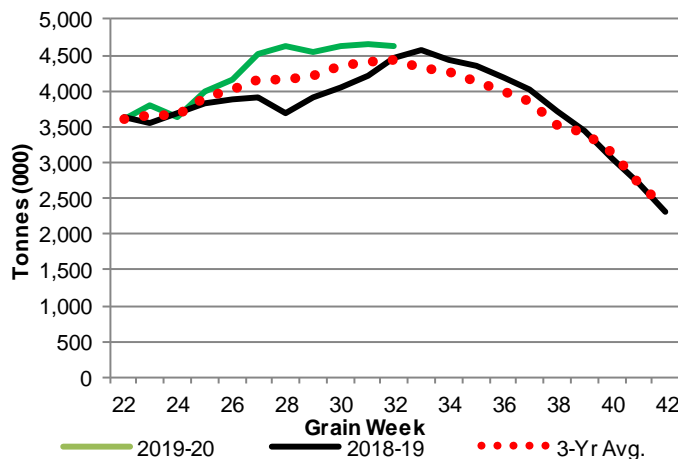
	MB	SK	AB	BC	Total
2019-20	845.4	2,301.9	1,445.5	30.0	4,622.8
2018-19	932.1	2,342.3	1,154.1	19.9	4,448.4
3-Yr Avg.	884.5	2,273.2	1,241.7	27.6	4,427.0
Var % - LY	-9%	-2%	25%	51%	4%
Var % 3-Yr Avg.	-4%	1%	16%	9%	4%
Storage Capacity	1,604.8	4,047.1	2,169.0	41.1	7,862.0
Estimated Working Capacity	1,043.1	2,630.6	1,409.8	26.7	5,110.2
19-20 % of Wkg Cap	81%	88%	103%	112%	90%

1-B1 Terminal Stocks ('000 tonnes) – Week 32

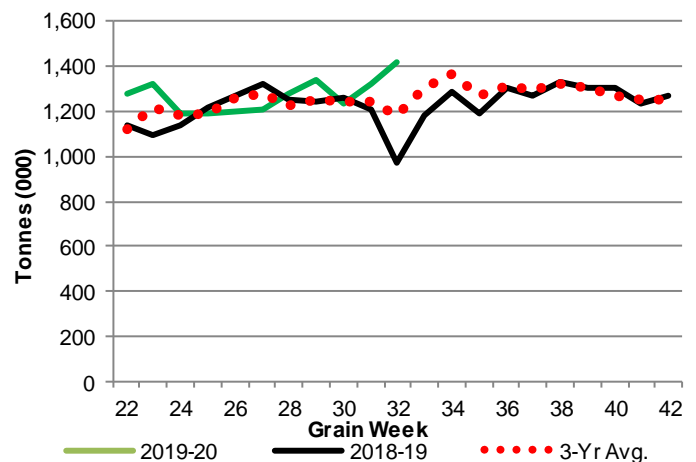
	VC	PR	West Coast	CH	TB	Total
2019-20	667.0	102	769.0	0.7	649.3	1,419.0
2018-19	289.8	77.4	367.2	0.7	606.6	974.5
3-Yr Avg.	n/a	n/a	569.5	10.3	604.0	1,183.8
Var % - LY	130%	32%	109%	0%	7%	46%
Var % 3-Yr Avg.	n/a	n/a	35%	-93%	8%	20%
Storage Capacity	1035.5	209.5	1,245.0	140.0	1,157.5	2,542.5
Estimated Working Capacity	724.9	146.7	871.6	98.0	810.2	1,779.8
19-20 % of Wkg Cap	92%	70%	88%	1%	80%	80%

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

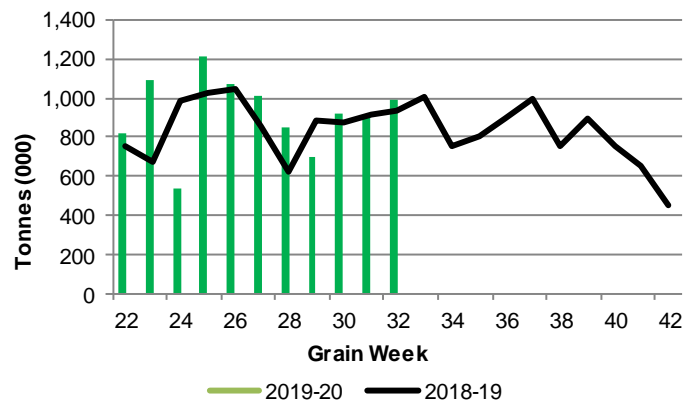


2. Country Deliveries

2-A Country Deliveries ('000 tonnes) – Week 32

	MB	SK	AB	BC	Total
2019-20	106.0	591.7	289.9	6.6	994.2
2018-19	141.5	496.3	292.9	2.9	933.6
4 Wk Avg	98.3	519.6	258.9	6.2	883.0
Var % to Last Year	-25%	19%	-1%	128%	7%
Var % To 4 Wk Avg	8%	14%	12%	7%	13%

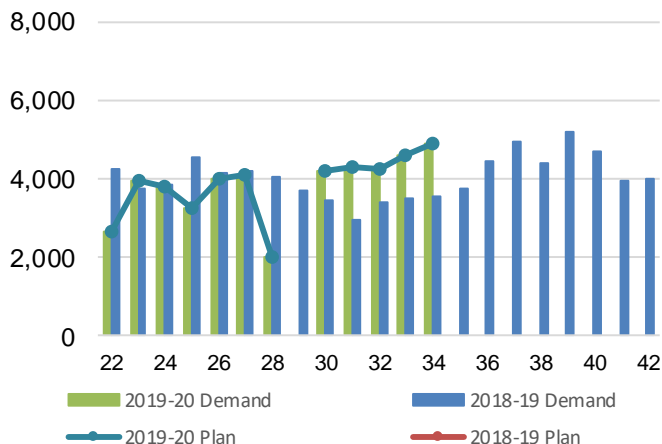
2-B 2019-20 Weekly Country Deliveries



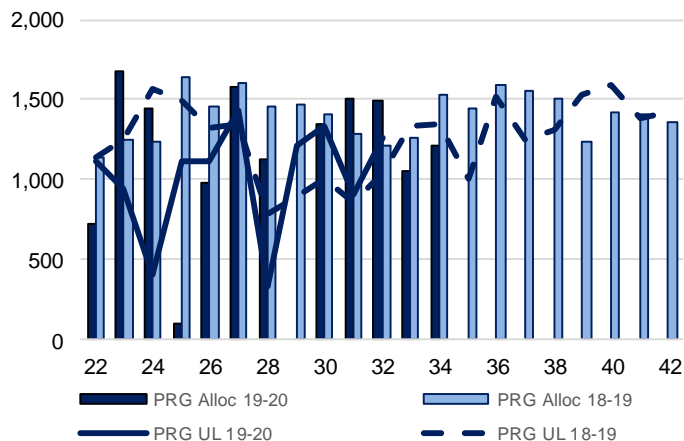
3. Railcar Supply

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 34 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.

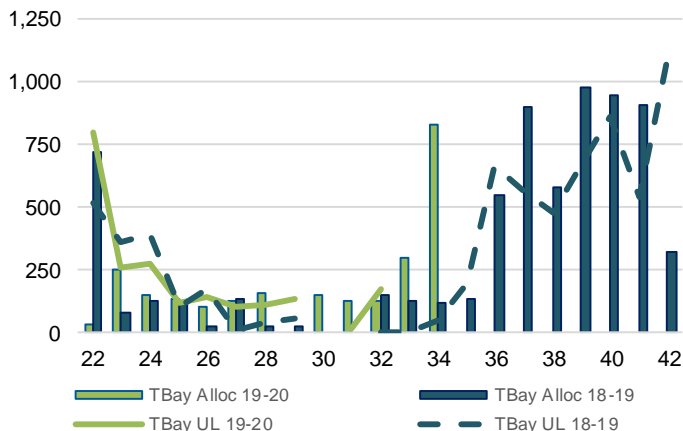
3-A: Canadian National Planned Car Allocation vs. Demand (cars) To Week 34 2019-20 Crop Year



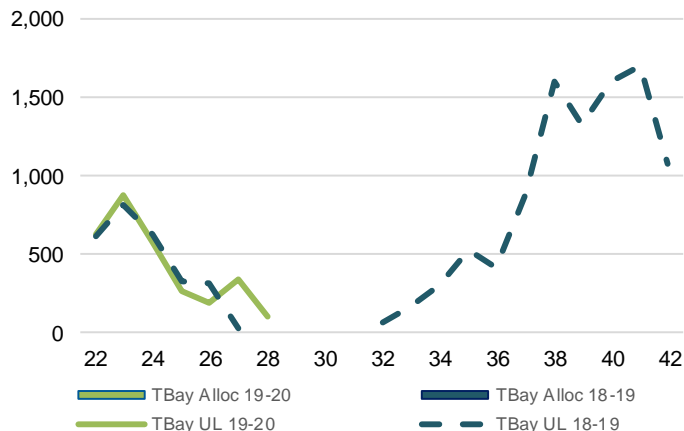
3-B3: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Prince Rupert



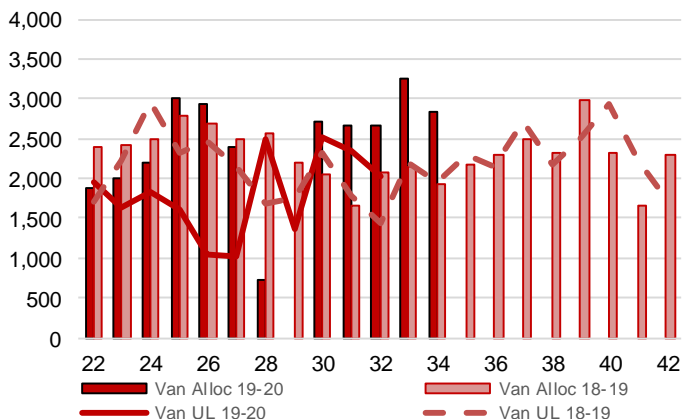
3-B1: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Thunder Bay



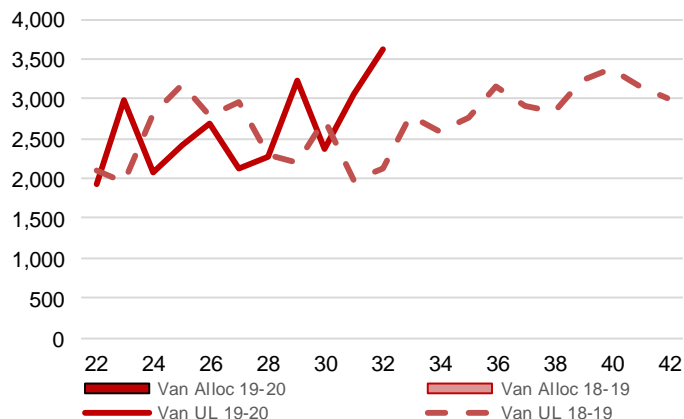
3-C1: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (cars) – Thunder Bay



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 32, 4-Week Moving Average and Variances

	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2019-20	5,652	1,267	6,919	175	-	7,094
2018-19	3,551	1,043	4,594	63	-	4,657
4-Wk Avg.	5,138	1,181	6,319	81	-	6,400
Var % to Last Year	59%	21%	51%	178%	n/a	52%
Var % to 4-Wk Avg.	10%	7%	10%	115%	n/a	11%

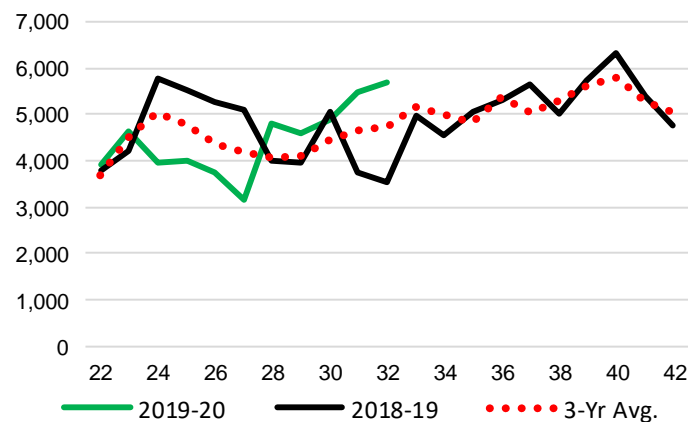
4-B Terminal Unloads by Port – This Year-to-Date as at Week 32 and Variances

YTD Unloads (cars)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2019-20	148,486	33,112	181,598	50,483	1,434	233,515
2018-19	153,706	38,346	192,052	47,006	-	239,058
3-Yr Avg	149,986	35,278	185,264	47,253	478	232,996
Var % to Last Year	-3%	-14%	-5%	7%	n/a	-2%
Var % to 3-Yr Avg	-1%	-6%	-2%	7%	200%	0%

YTD Unloads ('000 tonnes)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2019-20	13,653.5	3,047.7	16,701.2	4,653.6	133.7	21,488.5
2018-19	13,906.5	3,564.3	17,470.8	4,367.7	-	21,838.5
3-Yr Avg.	13,625.0	3,239.2	16,864.2	4,356.8	44.6	21,265.5
Var % to Last Year	-2%	-14%	-4%	7%	n/a	-2%
Var % to 3-Yr Avg.	0%	-6%	-1%	7%	200%	1%

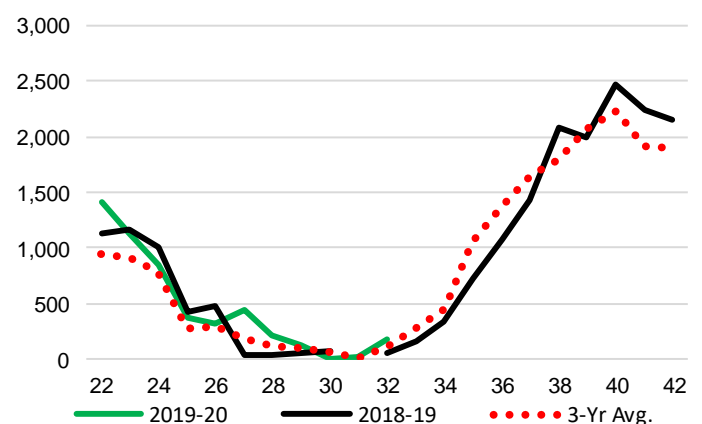
4-C Vancouver Unloads (cars)

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



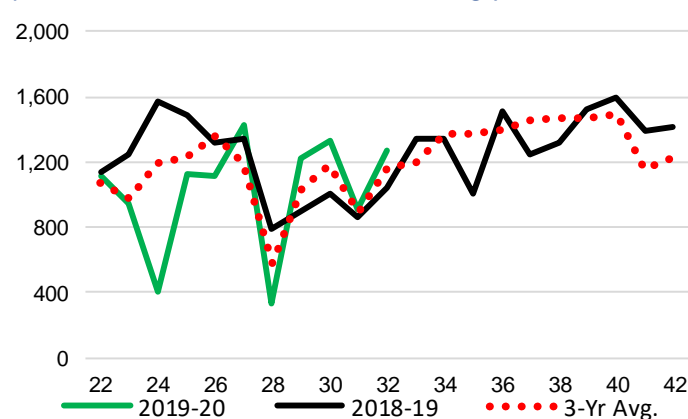
4-E Thunder Bay Unloads (cars)

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

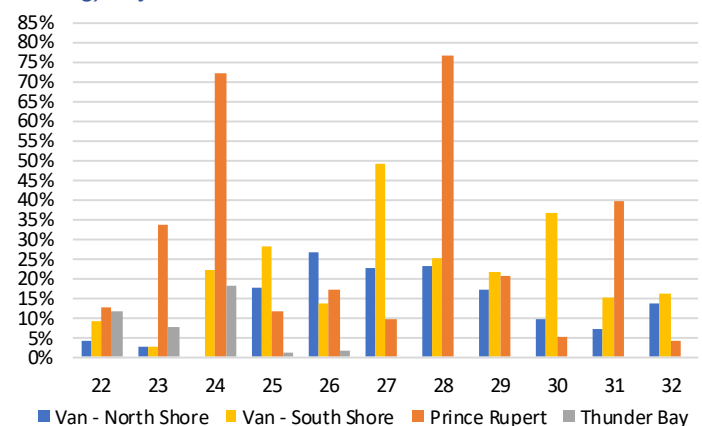


4-D Prince Rupert Unloads (cars)

(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 32



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

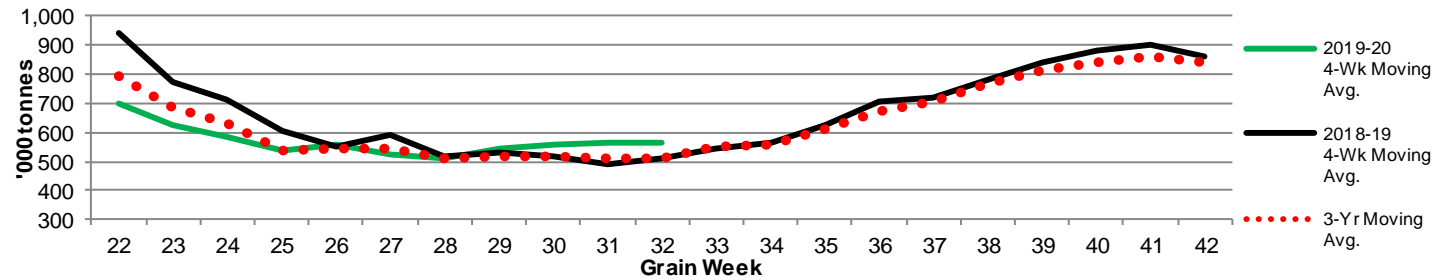
Months	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Weeks	1-4	5-8	9-13	14-17	18-22	23-26	27-30	31-34	35-39	40-43	44-47	48-52
2019-20	29,814	27,575	44,517	34,190	38,959	22,549	22,486	-	-	-	-	-
2018-19	24,252	31,459	43,694	36,751	41,856	29,435	22,325	21,991	40,649	35,180	30,816	38,804
3-Yr Avg.	25,862	30,530	44,283	34,340	39,551	25,742	21,208	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 at Week 32 and Variance to Last Year-to-Date

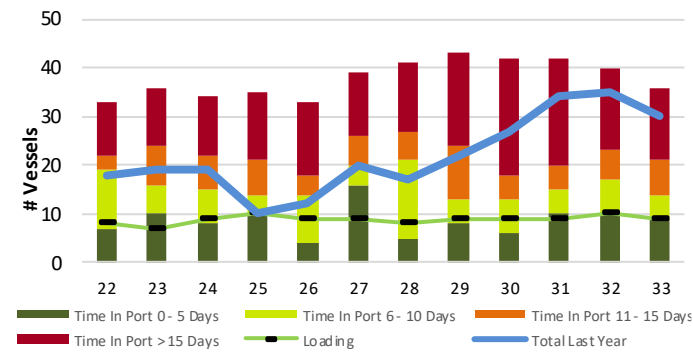
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2019-20	13,887.4	2,917.3	16,804.7	4,490.0	137.2	21,431.9
2018-19	13,953.7	3,535.4	17,489.1	4,211.3	26.9	21,727.3
3-Yr Avg.	13,745.1	3,196.5	16,941.6	4,256.0	54.7	21,252.3
Var % to Last Year	0%	-17%	-4%	7%	410%	-1%
Var % to 3-Yr Avg.	1%	-9%	-1%	5%	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.

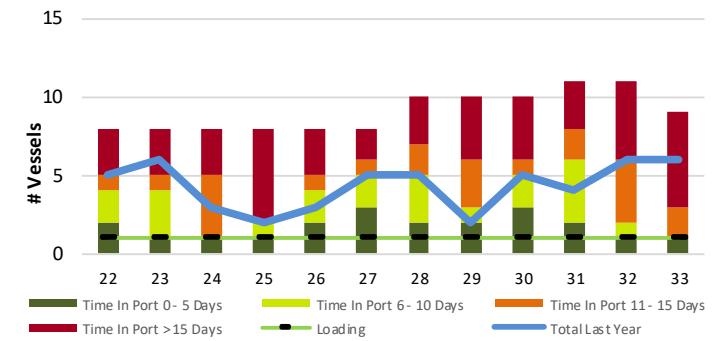


6. Vessels

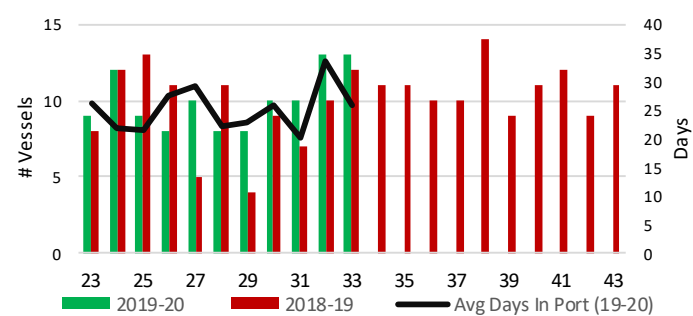
6-A Vessel Lineup at Vancouver as of Week 33 2019-20



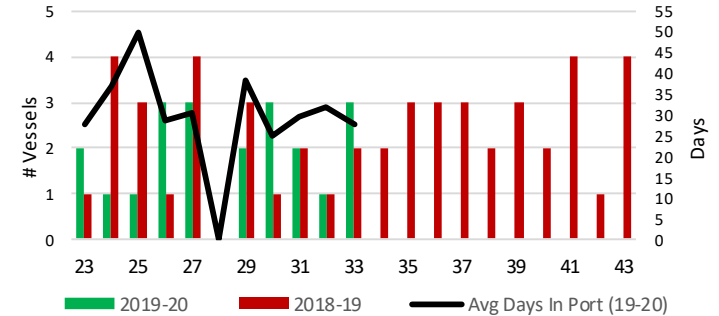
6-C Vessel Lineup at Prince Rupert as of Week 33 2019-20



6-B Vessels Cleared at Vancouver up to Week 33 2019-20



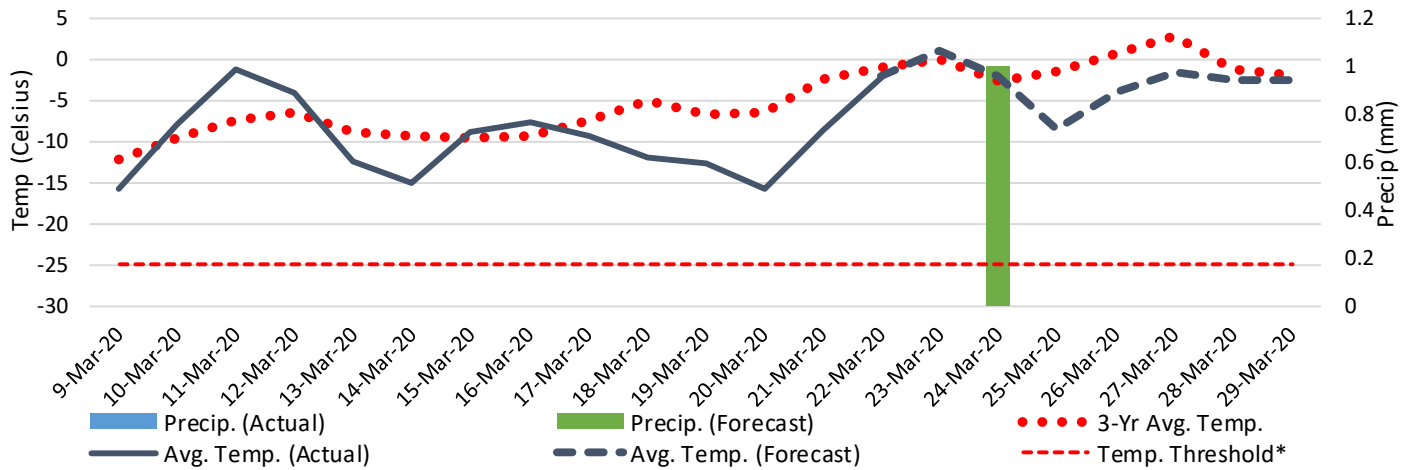
6-D Vessels Cleared at Prince Rupert up to Week 33 2019-20



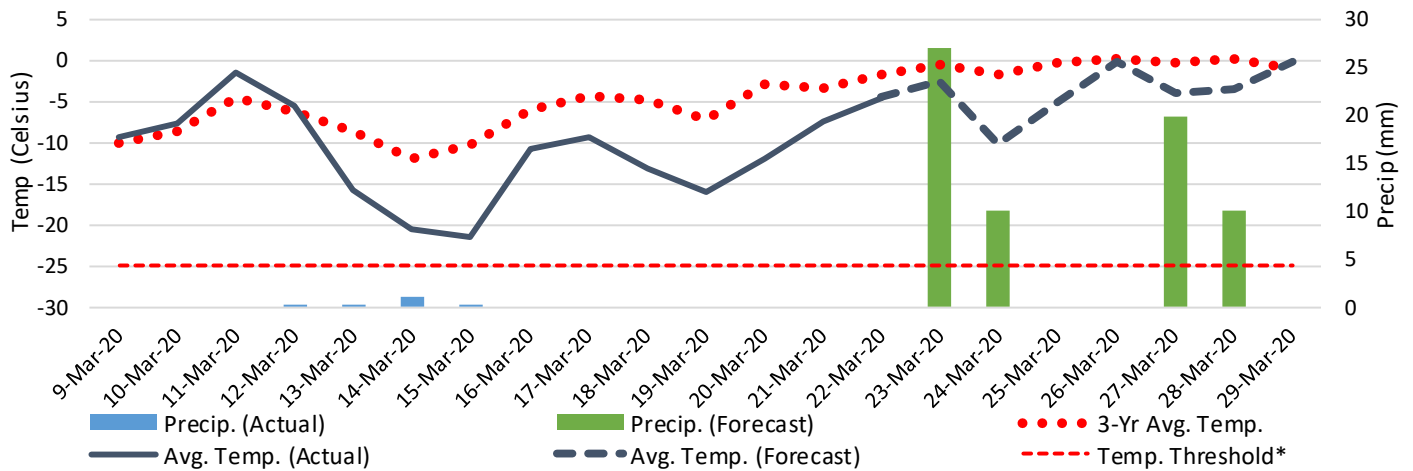
Note: The 'Time in Port' measure for 6-A and 6-C is calculated as how long each vessel in the lineup has been in port as at Sunday of that grain week. The 'Avg Days in Port' measure for 6-B and 6-D is the average number of days that all vessels which cleared that week were in port. These measures use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

7. Weather

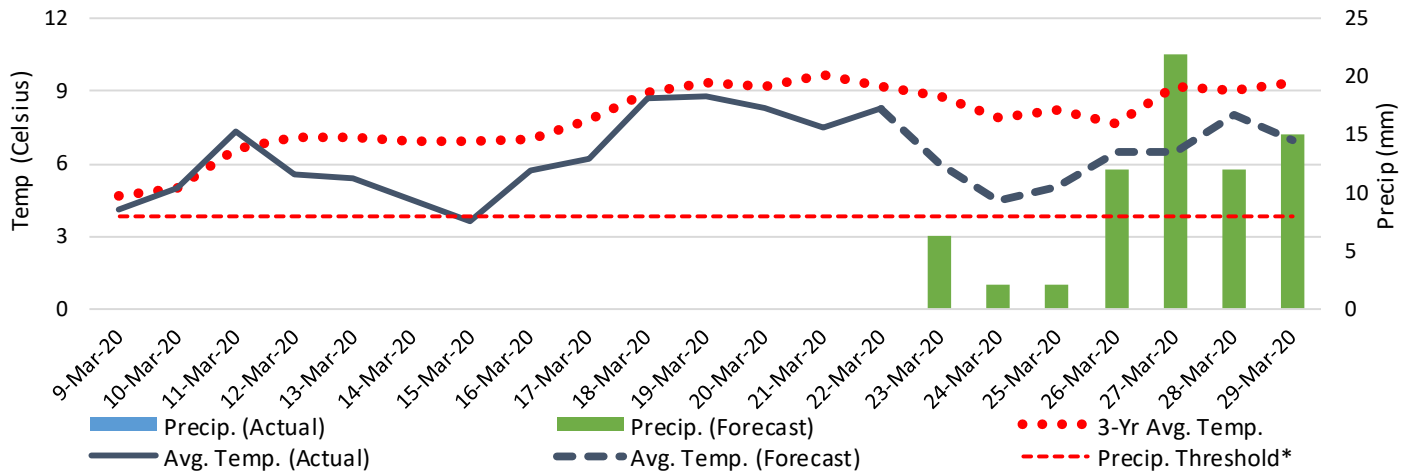
7-A Actual and Forecasted Weather at Winnipeg up to Week 34



7-B Actual and Forecasted Weather at Edmonton up to Week 34



7-C Actual and Forecasted Weather at Vancouver up to Week 34



*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)