

Grain Monitoring Program

Weekly Performance Update

October 9, 2018

For Grain Week 9 (2018-19 CY)

Summary

	This Week	Last Week	Var. from Last Year	
1. Stocks in Store ('000 tonnes)				
Country Elevators	↑ 3,514.4	3,434.9	2%	
% of Working Capacity	72%	70%		
Terminal Elevators	↓ 1,286.1	1,287.7	0%	
% of Working Capacity	74%	74%		
2. Country Deliveries ('000 tonnes)				
Country Deliveries	↑ 1,102.1	865.5	27%	
3. Railcar Supply to Western Ports (Cars)				
CN Allocation Plan	↓ 5,350	5,930	-4%	
CN Unloads	↓ 3,560	4,273	-22%	
CP Allocation Plan	n/a	n/a	n/a	
CP Unloads	↑ 4,749	4,313	7%	
4. Port Performance (Cars)				
Total Weekly Unloads	↓ 8,309	8,586	-8%	
4-Week Rolling Average	↑ 8,149	7,864	n/a	
Var. to 4-Week Rolling Average	↓ 2%	9%	n/a	
YTD Unloads	↑ 64,018	55,709	-2%	
Weekly Out-of-Car Time	↓ 15.0%	15.8%	45.9%	
5. Terminal Shipments Year-to-Date ('000 tonnes)				
Vancouver	↑ 3,151.7	2,719.2	-11%	
Prince Rupert	— 765.1	765.1	15%	
Thunder Bay	↑ 1,387.5	1,201.4	-3%	
Total Western Canada	↑ 5,304.3	4,685.7	-6%	
6. Vessels as at Oct 7, 2018				
Vancouver	Vessel Lineup in port	↑ 27	21	80%
	Vessels Cleared	↑ 12	7	-14%
	Vessels Arrived	↑ 15	9	n/a
Pr. Rupert	Vessel Lineup in port	↓ 5	6	0%
	Vessels Cleared	↑ 3	0	0%
	Vessels Arrived	↓ 2	3	n/a
Vessels Inbound Oct 08, 2018 to Oct 14, 2018 (Week 11)				
Vancouver	1			
Prince Rupert	0			

1. Stocks in Store: (Page 2)

- Country stocks increased to 3.5 MMT in Week 9 utilizing 72% of the system's working capacity. Space in primary elevators is good.
- Total western port terminal stocks remained at 1.3 MMT in Week 9, utilizing 74% of the working capacity.

2. Country Deliveries: (Page 2)

- Producer deliveries were 1,102,100 tonnes in Week 9.

3. Railcar Supply: (Page 3)

- Railcar allocation plans are supplied by CN to Week 11 of the 2018-19 grain year (see page 3 for details).

4. Port Performance: (Page 4)

- Total western port unloads were 2% higher than the 4-week moving average and 8% lower than Week 9 last year.
- West Coast unloads were 6,278 cars (Vancouver 4,956 and Prince Rupert 1,322), 5% higher than the 4-week moving average and 2% lower than Week 9 last year.
- Thunder Bay unloads were 2,031 cars, 7% lower than the 4-week moving average and 21% lower than Week 9 last year.
- Year-to-date total western port unloads are 2% lower than the same period last year. The corresponding tonnage is even with the same period last year.
- The total average terminal out-of-car time (OCT) decreased to 15.0% from 15.8% in the previous week. The OCT time for Week 9 was 17.7% in Vancouver and 7.3% at Thunder Bay. At the time of publishing, Prince Rupert has not yet reported their OCT.

5. Shipments: (Page 5)

- Year-to-date Western Canadian shipments from port terminal elevators at Week 9 are 6% lower than the same period last year and 12% lower than the 5-year average.

6. Vessels: (Page 5)

- Week 10 lineup at Vancouver increased to a total of 27 vessels (The current one-year average at Vancouver is 22 vessels). Of the 27, 7 were at berth, 7 were anchored at English Bay, 12 were anchored off Vancouver Island, and 1 was anchored at Burrard Inlet.
- Prince Rupert vessel lineup decreased to 5 vessels (The current one-year average at Prince Rupert is 4 vessels).
- Vessels cleared from Vancouver were 12, and from Prince Rupert were 3 in Week 10 of the 2018-19 crop year.

1. Stocks in Store

1-A1 Country Stocks ('000 tonnes) – Week 9

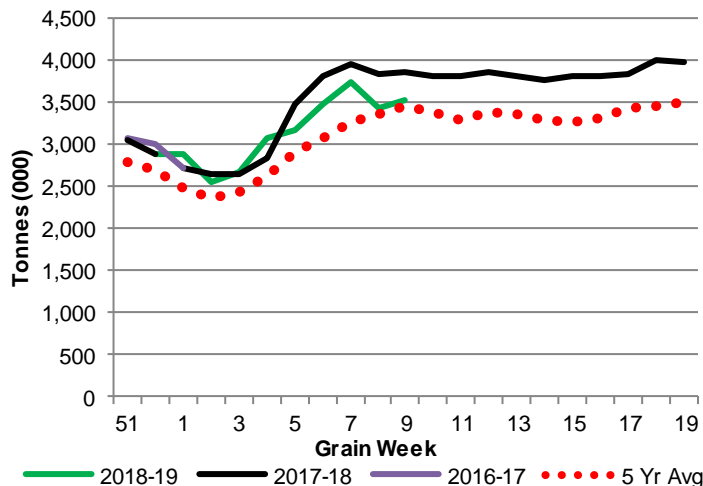
	MB	SK	AB	BC	Total
2018-19	750.2	1,948.7	798.0	17.5	3,514.4
2017-18	832.6	1,983.8	1,020.0	29.8	3,866.2
5 Yr Avg	770.6	1,735.5	925.1	26.1	3,457.3
Var % - LY	-10%	-2%	-22%	-41%	-9%
Var % - 5 Yr Avg	-3%	12%	-14%	-33%	2%
Storage Capacity	1,598.3	3,974.9	1,913.7	41.1	7,528.0
Estimated Working Capacity	1,038.9	2,583.7	1,243.9	26.7	4,893.2
18-19 % of Wkg Cap	72%	75%	64%	65%	72%

1-B1 Terminal Stocks ('000 tonnes) – Week 9

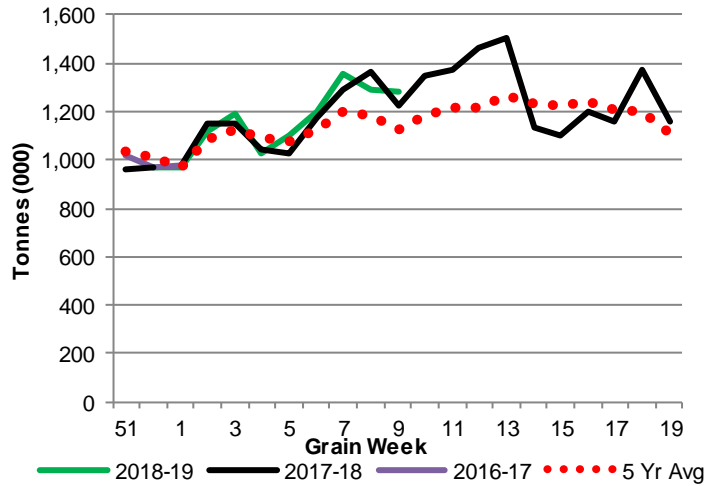
	VC	PR	West Coast	CH	TB	Total
2018-19	525.6	144.7	670.3	29.5	586.3	1,286.1
2017-18	n/a	n/a	629.6	29.5	567.0	1,226.1
5 Yr Avg	n/a	n/a	578.2	54.5	490.1	1,122.8
Var % - LY	n/a	n/a	6%	0%	3%	5%
Var % - 5 Yr Avg	n/a	n/a	16%	-46%	20%	15%
Storage Capacity	978.0	209.5	1,187.5	140.0	1,157.5	2,485.0
Estimated Working Capacity	684.6	146.65	831.3	98.0	810.3	1,739.5
18-19 % of Wkg Cap	77%	99%	81%	30%	72%	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

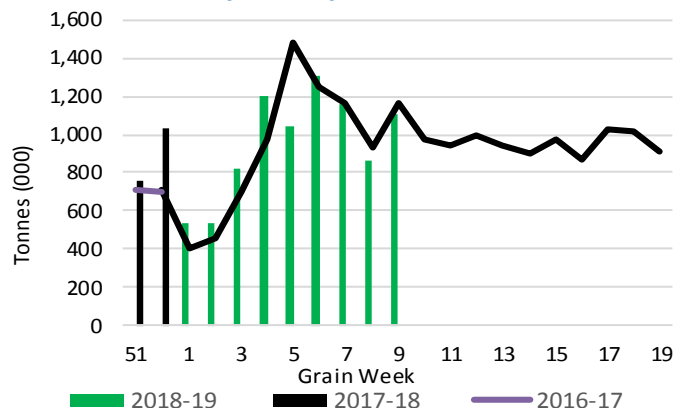


2. Country Deliveries

2-A Weekly Country Deliveries ('000 tonnes) - Week 9

	MB	SK	AB	BC	Total
2018-19	205.5	643.7	238.9	14.0	1,102.1
2017-18	276.1	538.2	333.2	12.4	1,159.9
4 Wk Avg	233.4	620.0	246.3	9.7	1,109.4
Var % to Last Year	-26%	20%	-28%	13%	-5%
Var % To 4 Wk Avg	-12%	4%	-3%	44%	-1%

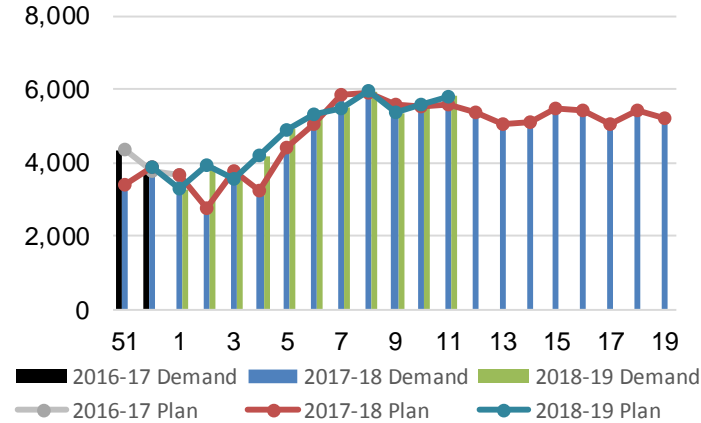
2-B 2018-19 Weekly Country Deliveries vs 2017-18



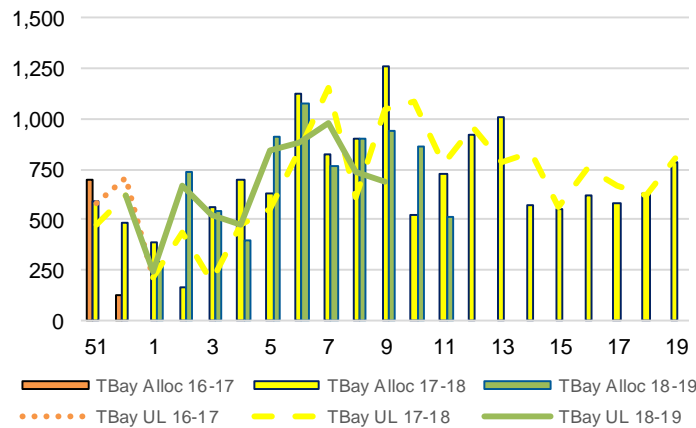
3. Railcar Supply

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 11 of 2018-19. 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.

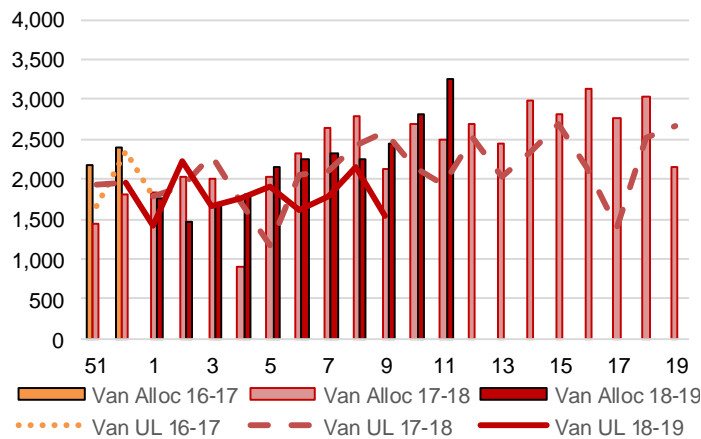
3-A: Canadian National Planned Car Allocation vs. Demand (cars) To Week 11 2018-19 Crop Year



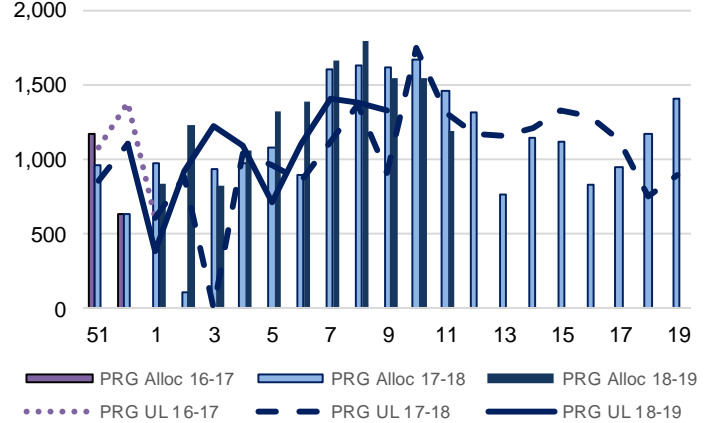
3-B1: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Thunder Bay



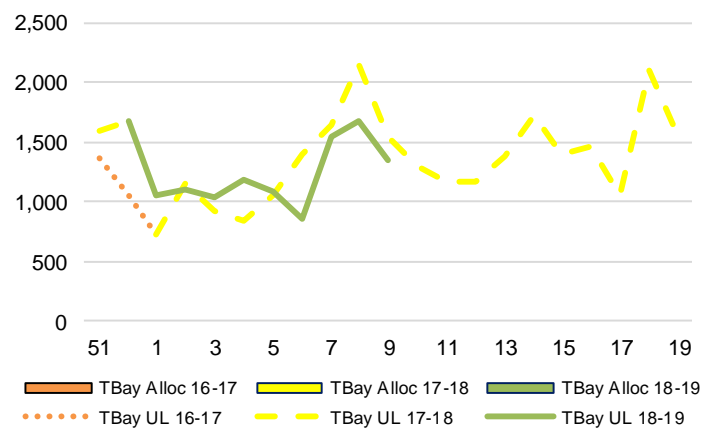
3-B2: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Vancouver



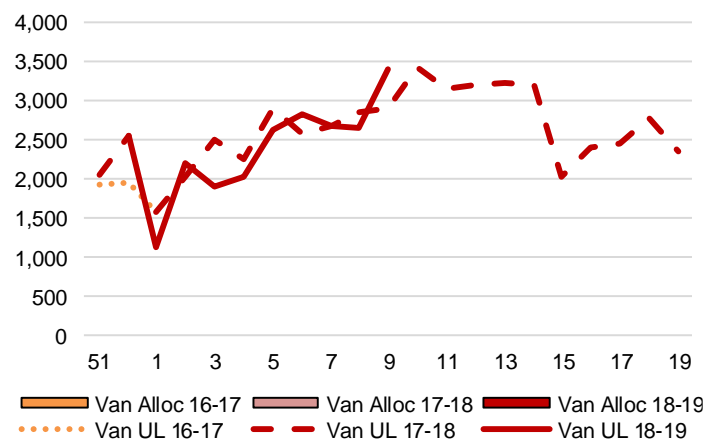
3-B3: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (cars) – Prince Rupert



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



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 9, 4-Week Moving Average and Variances

	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2018-19	4,956	1,322	6,278	2,031	-	8,309
2017-18	5,491	911	6,402	2,585	-	8,987
4-Wk Avg.	4,669	1,303	5,972	2,177	-	8,149
Var % to Last Year	-10%	45%	-2%	-21%	n/a	-8%
Var % to 4-Wk Avg.	6%	1%	5%	-7%	n/a	2%

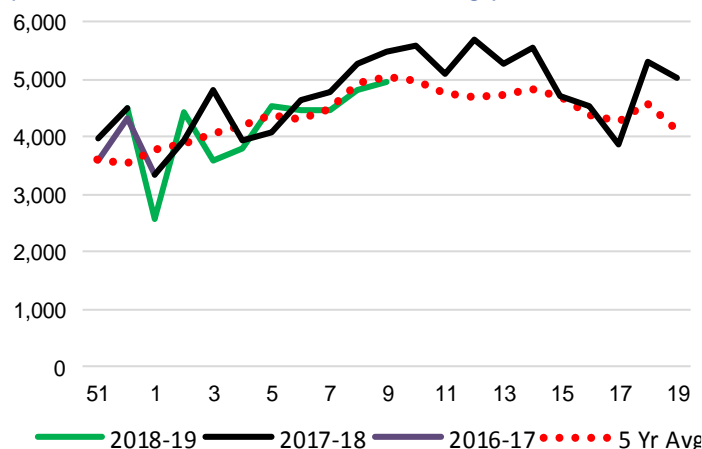
4-B Terminal Unloads by Port – This Year-to-Date as of Week 9 and Variances

YTD Unloads (cars)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2018-19	37,549	9,553	47,102	16,916	-	64,018
2017-18	40,267	7,848	48,115	16,949	-	65,064
5-Yr Avg	39,003	9,594	48,597	18,656	997	68,250
Var % to Last Year	-7%	22%	-2%	0%	n/a	-2%
Var % to 5-Yr Avg	-4%	0%	-3%	-9%	-100%	-6%

YTD Unloads ('000 tonnes)	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2018-19	3,423.1	904.0	4,327.1	1,582.8	-	5,909.9
2017-18	3,641.7	713.9	4,355.6	1,565.9	-	5,921.5
5-Yr Avg.	3,512.5	869.0	4,381.5	1,726.4	89.2	6,197.2
Var % to Last Year	-6%	27%	-1%	1%	n/a	0%
Var % to 5-Yr Avg.	-3%	4%	-1%	-8%	-100%	-5%

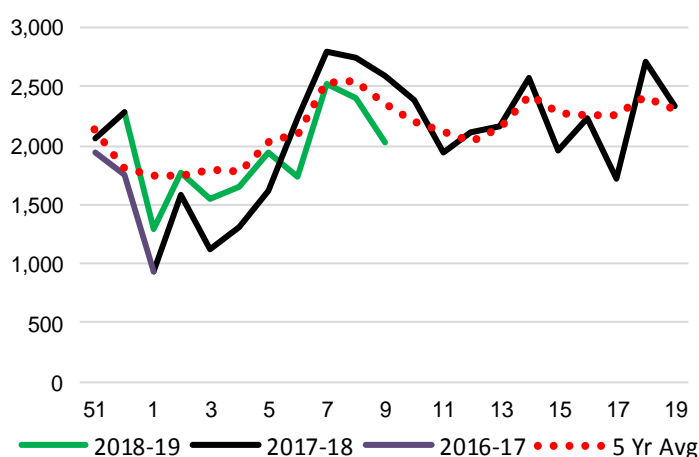
4-C Vancouver Unloads (cars)

(This Year vs. Last Year and the 5-Year Average)



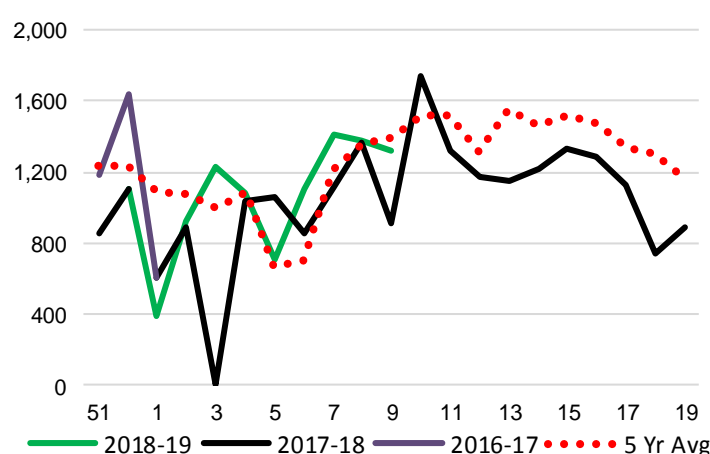
4-E Thunder Bay Unloads (cars)

(This Year vs. Last Year and the 5-Year Average)

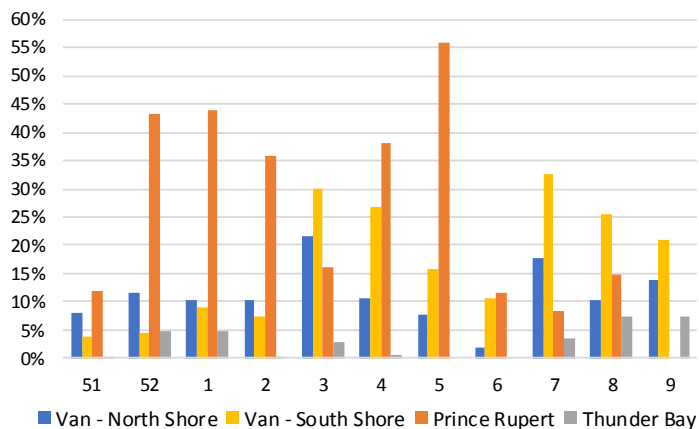


4-D Prince Rupert Unloads (cars)

(This Year vs. Last Year and the 5-Year Average)



4-F Weekly Out-of-Car Time (% of hours out-of-cars / total hours working) – by Port to Week 9



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 5-Year Average to Week 9

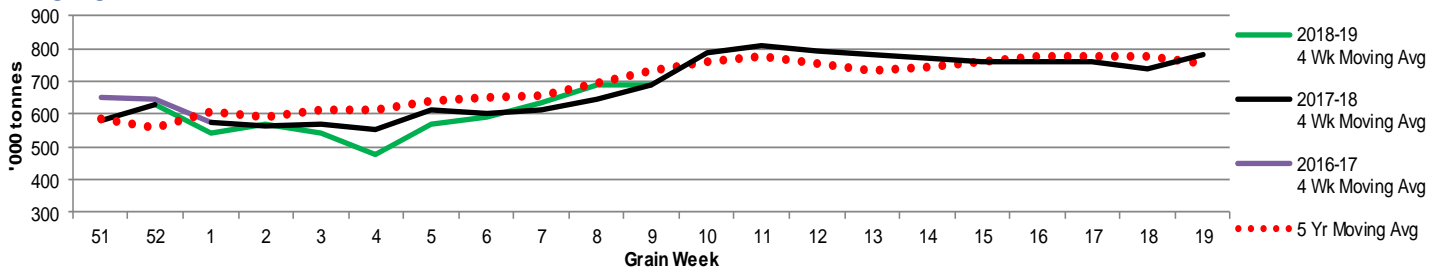
Months	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Weeks	1-5	6-9	10-14	15-18	19-22	23-27	28-31	32-35	36-39	40-44	45-48	49-53
2018-19	31,421	32,597	-	-	-	-	-	-	-	-	-	-
2017-18	30,257	34,807	35,650	40,849	29,069	30,453	19,212	26,541	32,503	38,863	26,637	27,864
5 Yr Avg	31,582	34,977	37,910	36,805	30,329	26,145	22,477	29,475	35,186	34,031	30,072	30,852
Var % to Last Year	4%	-6%										
Var % to 5 Yr Avg	-1%	-7%										

5. Shipments

5-A Shipments from Port Terminals ('000 tonnes) – This Year-to-Date as at Week 9 and Variance to Last Year-to-Date

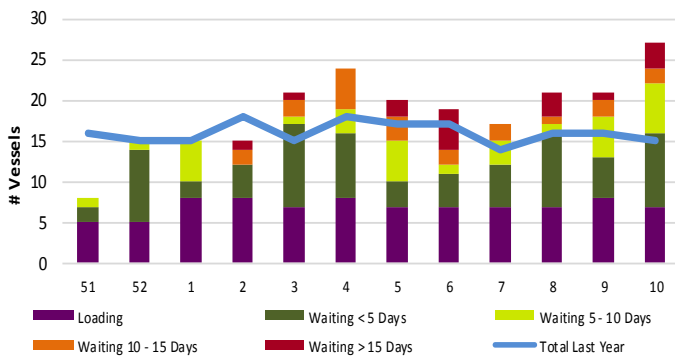
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2018-19	3,151.7	765.1	3,916.8	1,387.5	-	5,304.3
2017-18	3,555.4	665.4	4,220.8	1,428.6	-	5,649.4
5 Year Avg	3,497.3	812.8	4,310.1	1,666.1	74.3	6,050.5
Var % to Last Year	-11%	15%	-7%	-3%	n/a	-6%
Var % to 5 Year Avg	-10%	-6%	-9%	-17%	-100%	-12%

5-B Weekly Shipments ('000 tonnes) from Port Terminals - This year 4-Week moving avg. vs. last year 4-Week moving avg. and the 5-Year moving avg.

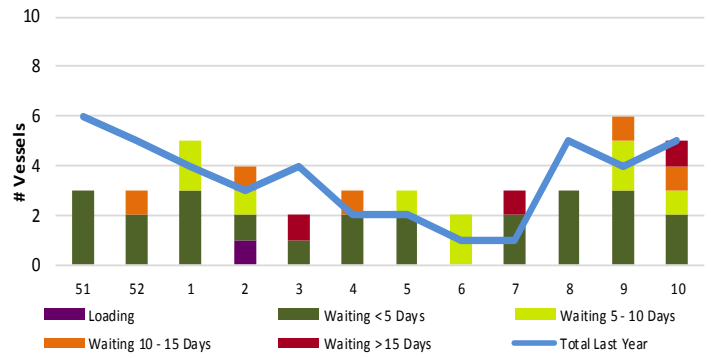


6. Vessels

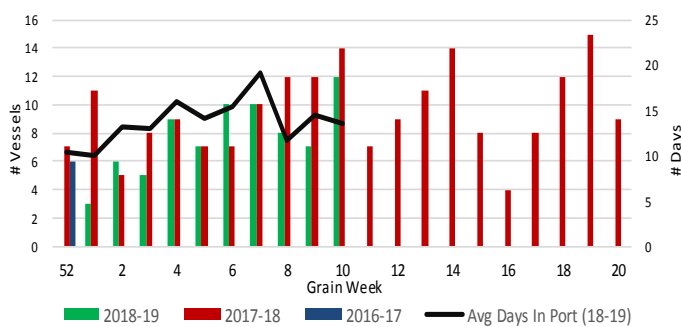
6-A Vessel Lineup at Vancouver as of Week 10 2018-19



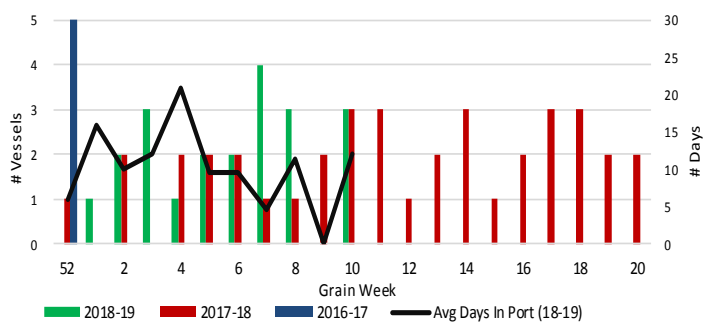
6-C Vessel Lineup at Prince Rupert as of Week 10 2018-19



6-B Vessels Cleared at Vancouver up to Week 10 2018-19



6-D Vessels Cleared at Prince Rupert up to Week 10 2018-19



Note: To determine Avg Days in Port, Quorum first establishes which vessels cleared port in each specific grain week. Then, the number of days each cleared vessel spent in port is calculated by subtracting the date of arrival from the date of departure. Lastly, an average of these days is produced for the week, which yields Avg Days in Port. The measure uses vessel data provided by the BC Chamber of Shipping.