

Grain Monitoring Program

Weekly Performance Update

July 10, 2018

For Grain Week 48 (2017-18 CY)

Summary

	This Week	Last Week	Var. from Last Year	
1. Stocks in Store (Tonnes 000)				
Country Elevators	↑ 3,172.7	2,988.7	3%	
% of Working Capacity	66%	62%		
Terminal Elevators	↑ 1,116.4	1,072.0	-4%	
% of Working Capacity	64%	62%		
2. Country Deliveries (Tonnes 000)				
Country Deliveries	↓ 901.0	967.4	-13%	
3. Railway Car Supply to Western Ports (Cars)				
CN Allocation Plan	↓ 4,084	4,314	9%	
CN Unloads	↓ 3,274	3,360	-6%	
CP Allocation Plan	n/a	n/a	n/a	
CP Unloads	↑ 3,406	3,056	-18%	
4. Port Performance				
Total Weekly Unloads	↑ 6,680	6,416	-12%	
4 Week Rolling Average	↑ 6,679	6,518	n/a	
Var. to 4 Week RA	↑ 0%	-2%	n/a	
YTD Unloads	↑ 344,898	338,218	-7%	
Weekly Out of Car Time	↑ 14.2%	5.7%	6%	
5. Shipments (YTD Tonnes 000)				
Vancouver	↑ 20,415	20,096	-2%	
Prince Rupert	↑ 4,754	4,708	-11%	
Thunder Bay	↑ 6,308	6,190	-12%	
Total Western Canada	↑ 31,477	30,995	-6%	
6. Vessels as of Jul 8, 2018				
Vancouver	Vessel Line Up	↑ 14	13	0%
	Vessels Cleared	↓ 6	9	-25%
	Vessels Incoming	—	8	n/a
Pr. Rupert	Vessel Line Up	↓ 2	4	-60%
	Vessels Cleared	↑ 2	0	0%
	Vessels Incoming	↑ 1	0	n/a

Note: Vessels incoming for the current week represents vessels forecasted to arrive in next grain week. Vessels incoming for the previous week represents the number of vessels that arrived in the current reporting week.

1. Stocks in Store: (Page 2)

- Country stocks increased to 3.2 MMT in Week 48 utilizing 66% of the system's working capacity. Space in primary elevators is good.
- Total western port terminal stocks held at 1.1 MMT in Week 48, utilizing 64% of the working capacity.

2. Country Deliveries: (Page 2)

- Producer deliveries were 901,000 tonnes in Week 48.

3. Railway Car Supply: (Page 3)

- Railcar allocation plans are supplied by CN to Week 50 of the 2017-18 grain year (see page 3 for details).

4. Port Performance: (Page 4)

- Total western port unloads were equal to the 4-week rolling average and 12% lower than Week 48 last year.
- West Coast unloads were 4,855 cars (Vancouver 4,232 and Prince Rupert 623), 3% lower than the 4-week rolling average and 19% lower than Week 48 last year.
- Thunder Bay unloads were 1,825 cars, 9% higher than the 4-week rolling average and 12% higher than Week 48 last year.
- Year to date total western port unloads are 7% lower than the same period last year. The corresponding tonnage is 7% lower.
- The total average terminal out of car time (OCT) increased to 14.2% from 5.7% in the previous week. The OCT time for Week 48 was 14.9% in Vancouver, 32.0% in Prince Rupert, and 3.2% in Thunder Bay.

5. Shipments: (Page 5)

- Year to date Western Canadian shipments from port terminal elevators at Week 48 are 6% lower than the same period last year and 2% lower than the 5-year average.

6. Vessels: (Page 5)

- Week 49 lineup at Vancouver increased to a total of 14 vessels (The current one-year average at Vancouver is 21 vessels). Of the 14, 6 were at berth, 1 was anchored in Burrard Inlet, 6 were anchored at English Bay and 1 was anchored off the southern coast of Vancouver Island.
- Prince Rupert vessel count decreased to 2 vessels (The current one-year average at Prince Rupert is 4 vessels).
- Vessels cleared from Vancouver were 6, and from Prince Rupert were 2 in Week 49 of the 2017-18 crop year.

1. Stocks in Store

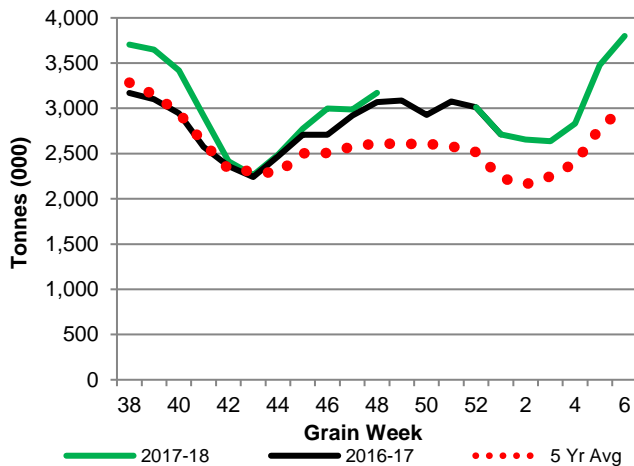
1-A1 Country Stocks ('000 tonnes) – Week 48

	MB	SK	AB	BC	Total
2017-18	646.3	1,664.0	849.6	12.8	3,172.7
2016-17	664.7	1,459.3	919.0	26.3	3,069.3
5 Yr Avg	582.2	1,411.5	818.3	23.9	2,835.9
Var % - LY	-3%	14%	-8%	-51%	3%
Var % - 5 Yr Avg	11%	18%	4%	-46%	12%
Storage Capacity	1,584.6	3,865.1	1,913.7	41.1	7,404.5
Estimated Working Capacity	1,030.0	2,512.3	1,243.9	26.7	4,813.0
17-18 % of Wkg Cap	63%	66%	68%	48%	66%

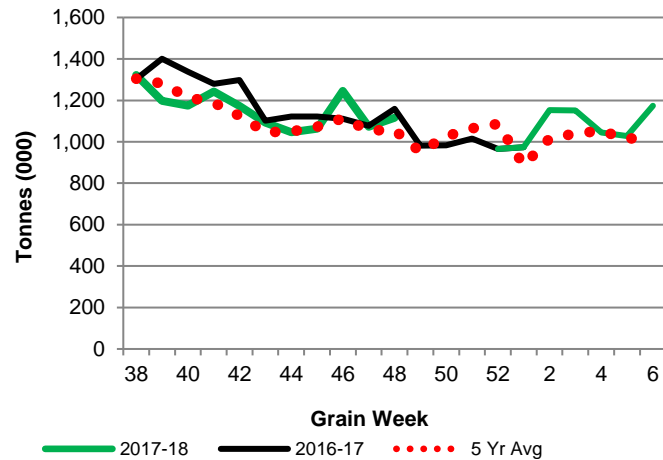
1-B1 Terminal Stocks ('000 tonnes) – Week 48

	West Coast	Churchill	Thunder Bay	Total
2017-18	634.5	29.5	452.4	1,116.4
2016-17	703.7	29.5	425.9	1,159.1
5 Yr Avg	588.4	23.4	444.4	1,056.2
Var % - LY	-10%	0%	6%	-4%
Var % - 5 Yr Avg	8%	26%	2%	6%
Storage Capacity	1,187.5	140.0	1,157.5	2,485.0
Estimated Working Capacity	831.2	98.0	810.3	1,739.5
17-18 % of Wkg Cap	76%	30%	56%	64%

1-A2 Weekly Country Stocks in Store



1-B2 Weekly Terminal Stocks in Store

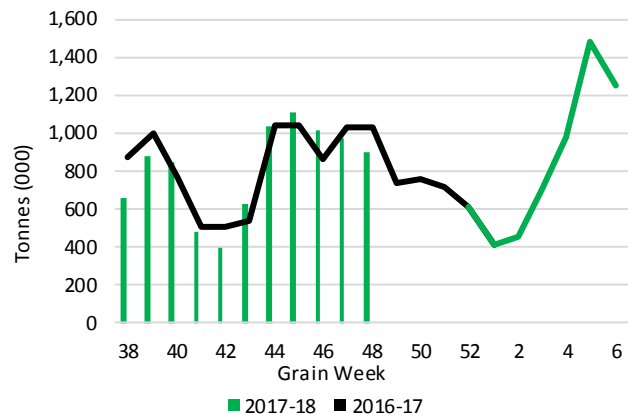


2. Country Deliveries

2-A Weekly Country Deliveries ('000 tonnes) - Week 48

	MB	SK	AB	BC	Total
2017-18	160.1	502.8	232.2	5.9	901.0
2016-17	160.6	512.3	352.4	7.7	1,033.0
4 Wk Avg	178.8	543.1	273.3	4.6	999.8
Var % to Last Year	0%	-2%	-34%	-23%	-13%
Var % To 4 Wk Avg	-10%	-7%	-15%	29%	-10%

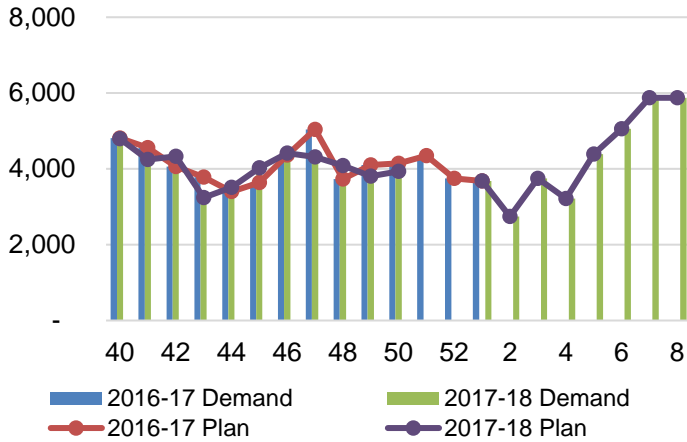
2-B 2017-18 Weekly Country Deliveries vs 2016-17



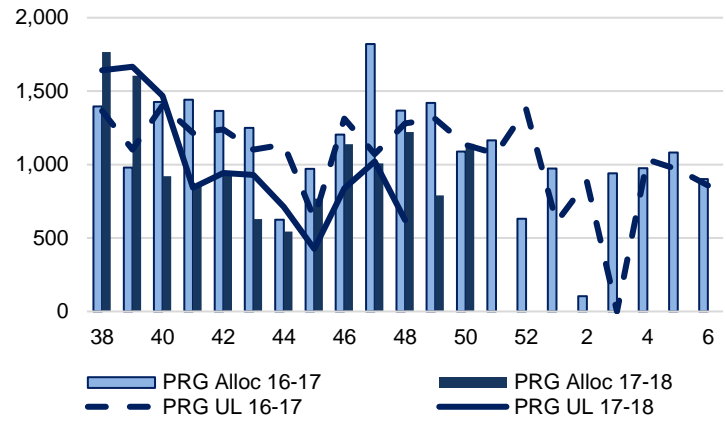
3. Railway Car Supply

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 50 of 2017-18. 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.

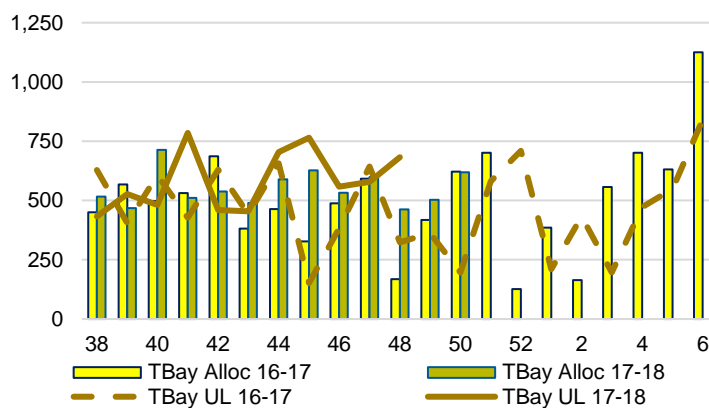
3-A: Canadian National Planned Car Allocation vs. Demand (# of Cars) To Week 50 2017-18 Crop Year



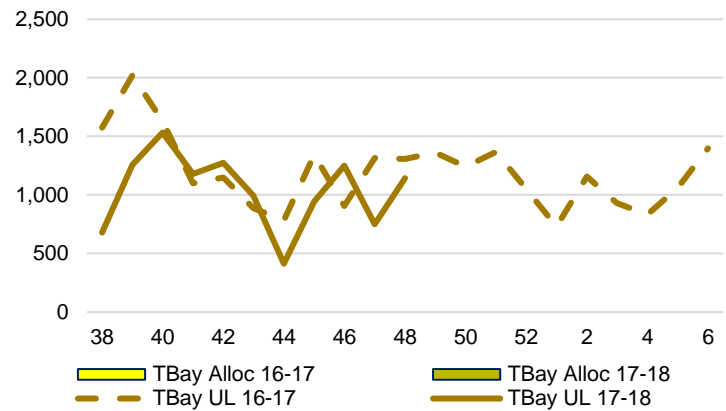
3-B3: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (# of Cars) – Prince Rupert



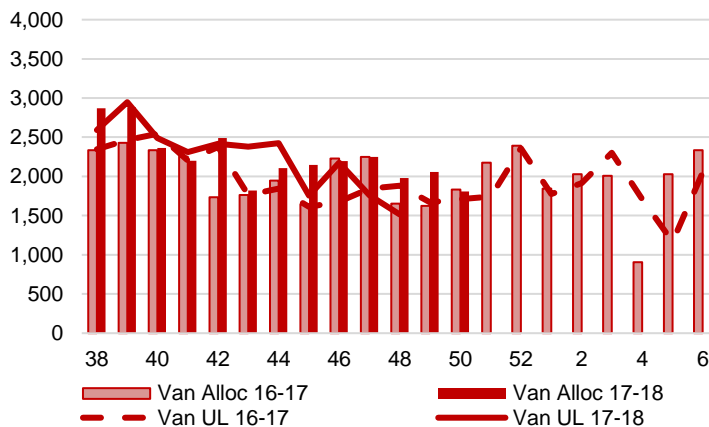
3-B1: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (# of Cars) – Thunder Bay



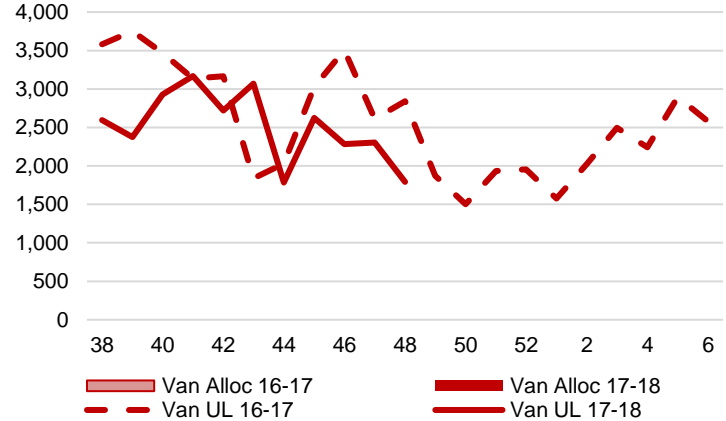
3-C1: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (# of Cars) – Thunder Bay



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



3-C2: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (# of Cars) – Vancouver



4. Port Performance

4-A Weekly Unloads by Port (Cars) – This Year for Week 48, 4-Week Rolling Average and Variances

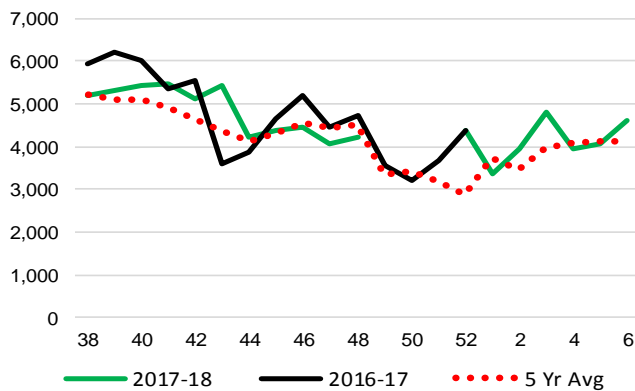
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2017-18	4,232	623	4,855	1,825	-	6,680
2016-17	4,720	1,280	6,000	1,629	-	7,629
4 Wk Avg	4,284	727	5,011	1,668	-	6,679
Var % to Last Year	-10%	-51%	-19%	12%	n/a	-12%
Var % to 4 Wk Avg	-1%	-14%	-3%	9%	n/a	0%

4-B Railcar Unloads and Tonnes – This Year to Date as of Week 48 and Variances

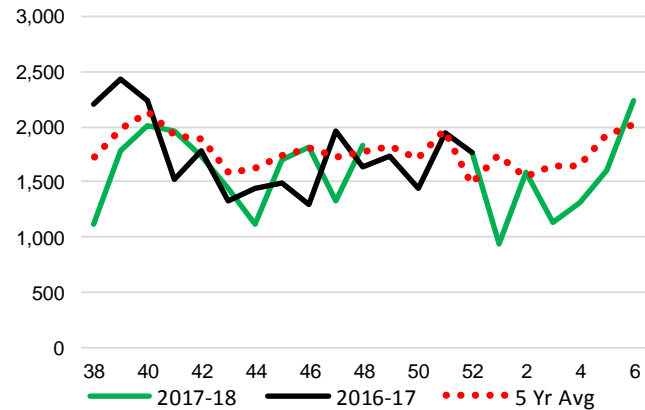
Total Cars	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2017-18	226,337	51,846	278,183	66,715	-	344,898
2016-17	233,012	61,871	294,883	77,255	-	372,138
5 Yr Avg	214,500	60,679	275,179	72,414	2,732	350,325
Var % to Last Year	-3%	-16%	-6%	-14%	n/a	-7%
Var % to 5 Yr Avg	6%	-15%	1%	-8%	-100%	-2%

Total Tonnes	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2017-18	20,314,767	4,698,765	25,013,532	6,157,795	-	31,171,327
2016-17	20,879,446	5,514,085	26,393,531	7,094,396	-	33,487,927
5 Yr Avg	19,128,419	5,416,963	24,545,381	6,632,312	298,111	31,475,805
Var % to Last Year	-3%	-15%	-5%	-13%	n/a	-7%
Var % to 5 Yr Avg	6%	-13%	2%	-7%	-100%	-1%

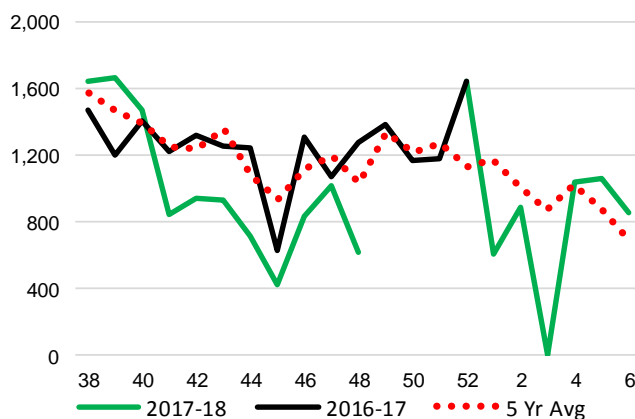
4-C Vancouver Unloads (# of Cars) (This Year vs. Last Year and the 5-Year Average)



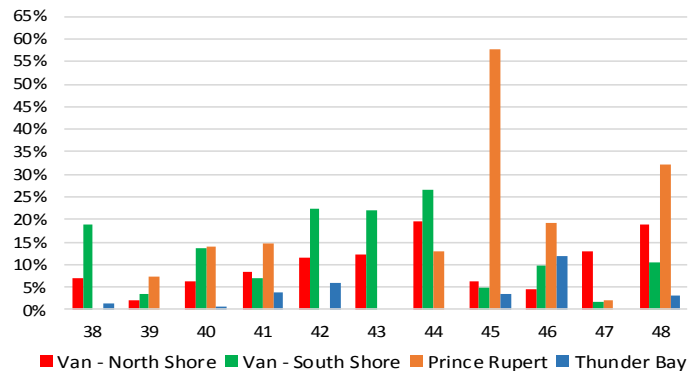
4-E Thunder Bay Unloads (# of Cars) (This Year vs. Last Year and the 5-Year Average)



4-D Prince Rupert Unloads (# of 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 48



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 rail cars 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 48

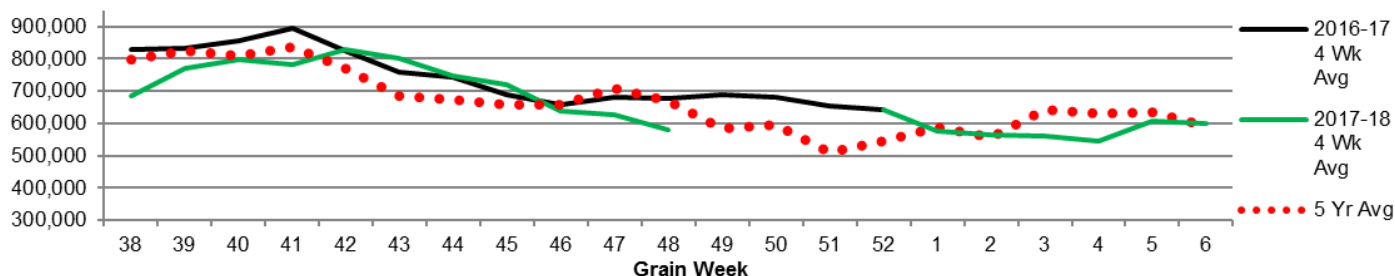
Months	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Weeks	1-5	6-9	10-13	14-18	19-22	23-27	28-31	32-35	36-39	40-44	45-48	49-52
2017-18	30,257	34,787	35,650	40,849	29,069	30,458	19,212	26,536	32,503	38,863	26,714	-
2016-17	31,197	33,447	36,002	44,476	28,797	28,771	26,824	37,057	36,789	39,112	29,666	27,065
5 Yr Avg	33,626	33,193	34,523	41,645	26,367	30,021	22,892	27,480	32,814	38,604	26,863	25,033
Var % to Last Year	-3%	4%	-1%	-8%	1%	6%	-28%	-28%	-12%	-1%	-10%	
Var % to 5 Yr Avg	-10%	5%	3%	-2%	10%	1%	-16%	-3%	-1%	1%	-1%	

5. Shipments

5-A Shipments from Port Terminals (Tonnes) – This Year as of Week 48 and Variance to Last Year

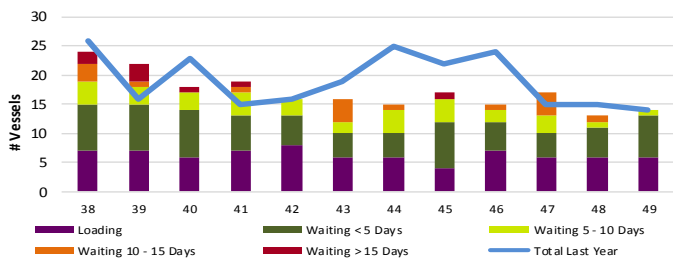
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2017-18	20,414,760	4,754,349	25,169,109	6,308,119	-	31,477,228
2016-17	20,836,103	5,334,002	26,170,105	7,199,599	-	33,369,704
5 Year Avg	19,583,187	5,361,957	24,945,144	6,810,728	270,243	32,026,115
Var % to Last Year	-2%	-11%	-4%	-12%	n/a	-6%
Var % to 5 Year Avg	4%	-11%	1%	-7%	-100%	-2%

5-B Weekly Shipments (Tonnes) from Port Terminals - This year 4-Wk moving avg vs. last year 4-Wk moving avg and the 5-year avg

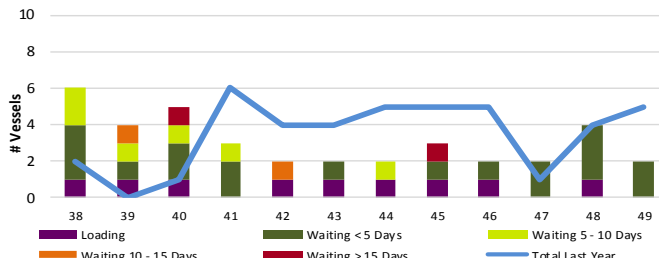


6. Vessels

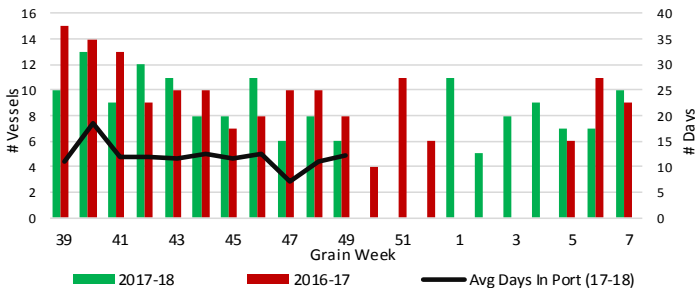
6-A Vessel lineup at Vancouver as of Week 49 2017-18



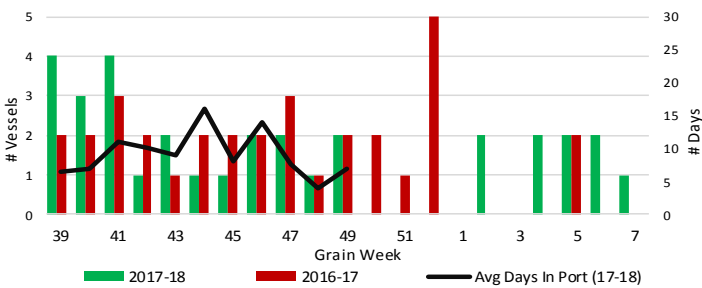
6-C Vessel lineup at Prince Rupert as of Week 49 2017-18



6-B Vessels Cleared at Vancouver up to Week 49 2017-18



6-D Vessels Cleared at Prince Rupert up to Week 49 2017-18



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.