

Grain Monitoring Program

Weekly Performance Update

June 5, 2018

For Grain Week 43 (2017-18 CY)

Summary

	This Week	Last Week	Var. from Last Year	
1. Stocks in Store (Tonnes 000)				
Country Elevators	↓ 2,261.6	2,413.9	1%	
% of Working Capacity	47%	50%		
Terminal Elevators	↓ 1,093.2	1,172.6	-1%	
% of Working Capacity	63%	67%		
2. Country Deliveries (Tonnes 000)				
Country Deliveries	↑ 622.1	392.9	16%	
3. Railway Car Supply to Western Ports (Cars)				
CN Allocation Plan	↓ 3,241	4,326	-14%	
CN Unloads	↓ 3,554	3,708	8%	
CP Allocation Plan	n/a	n/a	n/a	
CP Unloads	↓ 3,961	3,995	38%	
4. Port Performance				
Total Weekly Unloads	↓ 7,515	7,703	22%	
4 Week Rolling Average	↓ 8,073	8,387	n/a	
Var. to 4 Week RA	↑ -7%	-8%	n/a	
YTD Unloads	↑ 311,611	304,096	-7%	
Weekly Out of Car Time	↑ 11.6%	12.7%	89%	
5. Shipments (YTD Tonnes 000)				
Vancouver	↑ 18,391	17,986	-2%	
Prince Rupert	↑ 4,403	4,350	-7%	
Thunder Bay	↑ 5,591	5,367	-11%	
Total Western Canada	↑ 28,385	27,703	-5%	
6. Vessels as of 6/03/2018				
Vancouver	Vessel Line Up	↓ 15	16	-40%
	Vessels Cleared	↓ 8	11	-20%
	Vessels Incoming	↑ 10	7	n/a
Pr. Rupert	Vessel Line Up	— 2	2	-60%
	Vessels Cleared	↓ 1	2	-50%
	Vessels Incoming	↑ 2	1	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 decreased to 2.3 MMT in Week 43 utilizing 47% of the system's working capacity. Space in primary elevators is good.
- Total western port terminal stocks decreased to 1.1 MMT in Week 43, utilizing 63% of the working capacity.

2. Country Deliveries: (Page 2)

- Producer deliveries were 622,100 tonnes in Week 43 as seeding continued.

3. Railway Car Supply: (Page 3)

- Railcar allocation plans are supplied by CN to Week 45 of the 2017-18 grain year (see page 3 for details).

4. Port Performance: (Page 4)

- Total western port unloads were 7% lower than the 4-week rolling average and 22% higher than Week 43 last year.
- West Coast unloads were 6,067 cars (Vancouver 5,137 and Prince Rupert 930), 3% lower than the 4-week rolling average and 25% higher than Week 43 last year.
- Thunder Bay unloads were 1,448 cars, 19% lower than the 4 week-rolling average and 9% higher than Week 43 last year.
- Year to date total western port unloads are 7% lower than same period last year. The corresponding tonnage is 7% lower.
- The total average terminal out of car time (OCT) decreased to 11.6% from 12.7% in the previous week. The OCT time for Week 43 was 17% in Vancouver, 0% in Prince Rupert, and 0% in Thunder Bay.

5. Shipments: (Page 5)

- Year to date Western Canadian shipments from port terminal elevators at Week 43 are 5% lower than the same period last year and 1% lower than the 5-year average.

6. Vessels: (Page 5)

- Week 44 lineup at Vancouver decreased to a total of 15 vessels (The current one-year average at Vancouver is 21 vessels). Of the 15, 6 were at berth and 9 were anchored at English Bay.
- Prince Rupert vessel count remained at 2 vessels (The current one-year average at Prince Rupert is 4 vessels).
- Vessels cleared from Vancouver were 8, and from Prince Rupert were 1 in Week 44 of the 2017-18 crop year.

1. Stocks in Store

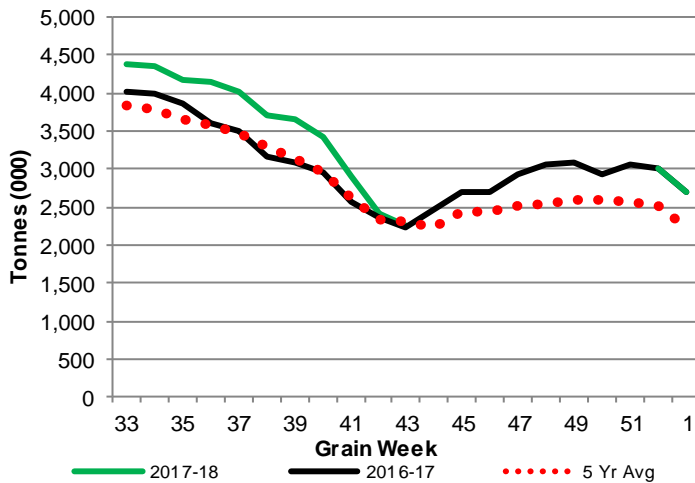
1-A1 Country Stocks ('000 tonnes) – Week 43

	MB	SK	AB	BC	Total
2017-18	591.7	1,030.6	617.0	22.3	2,261.6
2016-17	543.1	1,106.2	571.9	19.8	2,241.0
5 Yr Avg	515.8	1,088.2	677.0	20.8	2,301.8
Var % - LY	9%	-7%	8%	13%	1%
Var % - 5 Yr Avg	15%	-5%	-9%	7%	-2%
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	57%	41%	50%	83%	47%

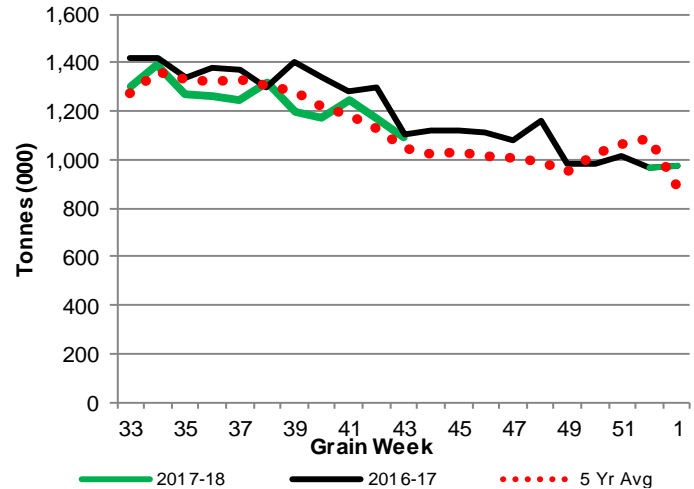
1-B1 Terminal Stocks ('000 tonnes) – Week 43

	West Coast	Churchill	Thunder Bay	Total
2017-18	642.7	29.5	421.0	1,093.2
2016-17	547.3	29.5	525.3	1,102.1
5 Yr Avg	566.4	26.3	454.0	1,046.6
Var % - LY	17%	0%	-20%	-1%
Var % - 5 Yr Avg	13%	12%	-7%	4%
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	77%	30%	52%	63%

1-A2 Weekly Country Stocks in Store



1-B2 Weekly Terminal Stocks in Store

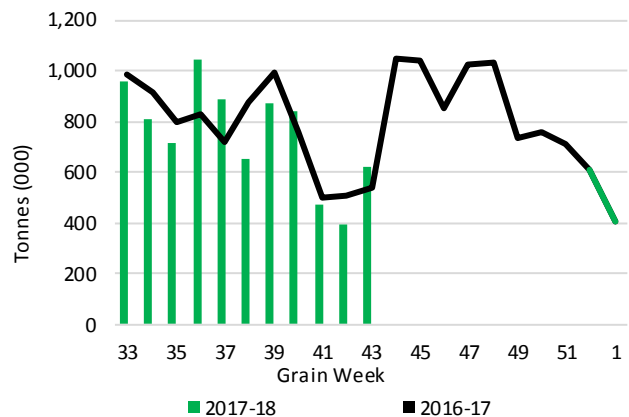


2. Country Deliveries

2-A Weekly Country Deliveries ('000 tonnes) - Week 43

	MB	SK	AB	BC	Total
2017-18	141.0	269.2	208.8	3.1	622.1
2016-17	94.2	249.1	187.9	5.9	537.1
4 Wk Avg	110.5	262.1	206.3	3.9	582.8
Var % to Last Year	50%	8%	11%	-47%	16%
Var % To 4 Wk Avg	28%	3%	1%	-19%	7%

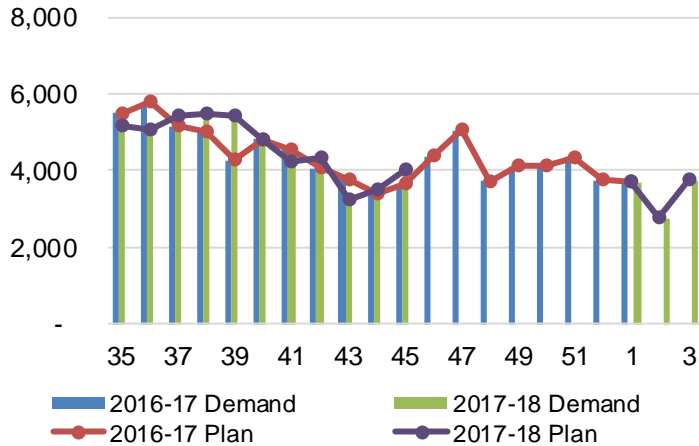
2-B 2017-18 Weekly Country Deliveries vs 2016-17



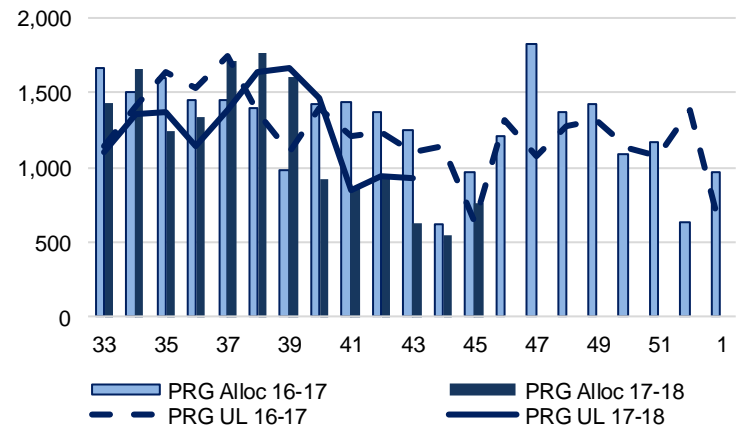
3. Railway Car Supply

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 45 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.

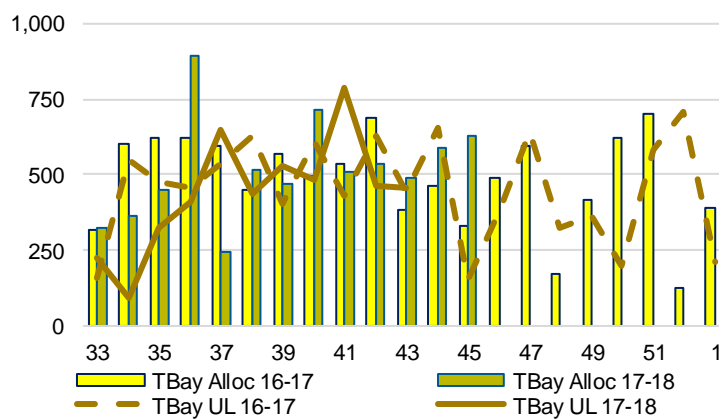
3-A: Canadian National Planned Car Allocation vs. Demand (# of Cars) To Week 45 2017-18 Crop Year



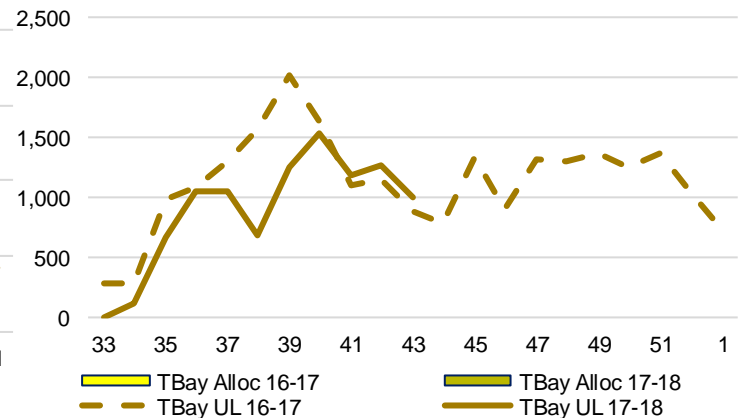
3-B3: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (# of Cars) – Prince Rupert



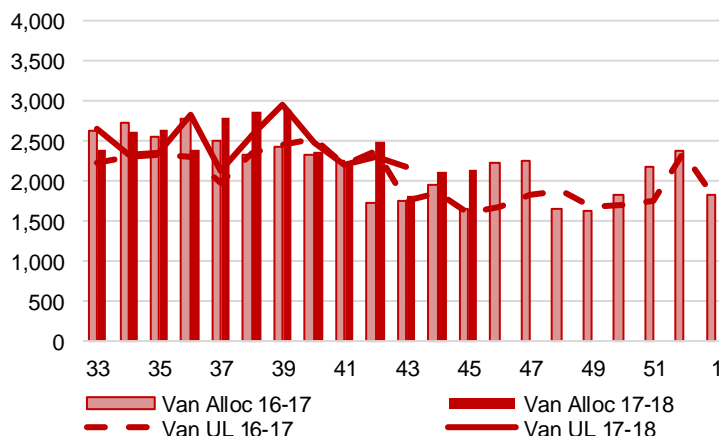
3-B1: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (# of Cars) – Thunder Bay



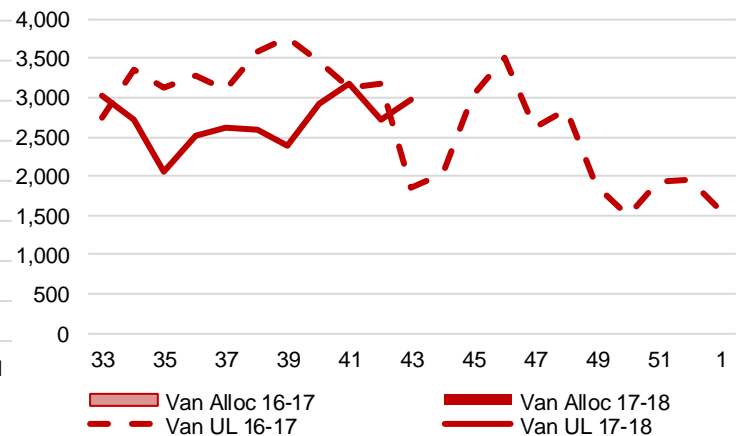
3-C1: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (# of Cars) – Thunder Bay



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 43, 4-Week Rolling Average and Variances

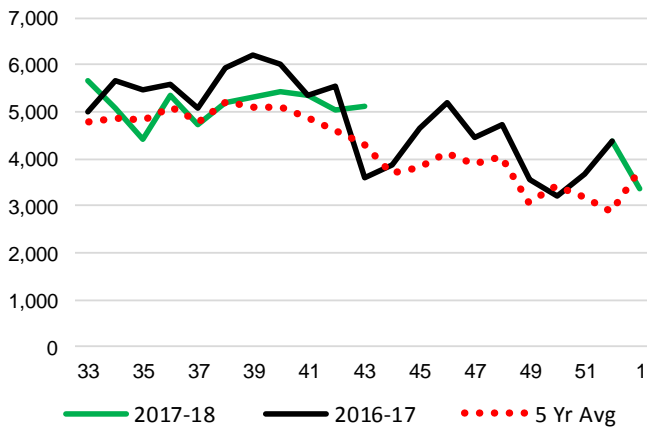
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2017-18	5,137	930	6,067	1,448	-	7,515
2016-17	3,599	1,253	4,852	1,329	-	6,181
4 Wk Avg	5,237	1,046	6,282	1,790	-	8,073
Var % to Last Year	43%	-26%	25%	9%	n/a	22%
Var % to 4 Wk Avg	-2%	-11%	-3%	-19%	n/a	-7%

4-B Railcar Unloads and Tonnes – This Year to Date as of Week 43 and Variances

	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
Total Cars						
2017-18	204,457	48,227	252,684	58,927	-	311,611
2016-17	210,142	56,323	266,465	69,445	-	335,910
5 Yr Avg	192,458	55,313	247,771	63,677	2,720	314,168
Var % to Last Year	-3%	-14%	-5%	-15%	n/a	-7%
Var % to 5 Yr Avg	6%	-13%	2%	-7%	-100%	-1%
Total Tonnes						
2017-18	18,425,366	4,367,675	22,793,042	5,425,771	-	28,218,812
2016-17	18,825,574	5,018,779	23,844,353	6,367,812	-	30,212,165
5 Yr Avg	17,170,665	4,935,812	22,106,477	5,833,234	297,100	28,236,810
Var % to Last Year	-2%	-13%	-4%	-15%	n/a	-7%
Var % to 5 Yr Avg	7%	-12%	3%	-7%	-100%	0%

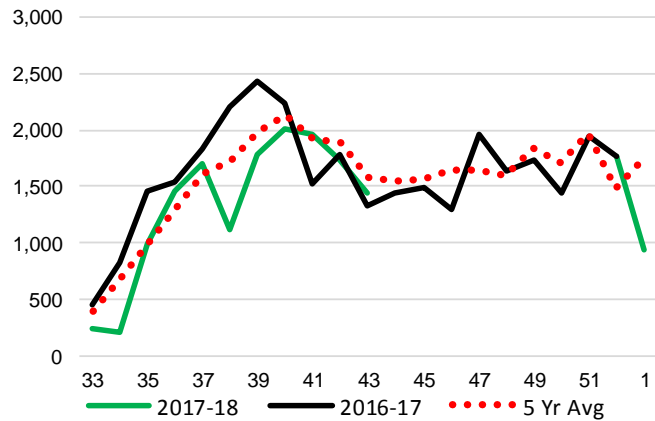
4-C Vancouver Unloads (# of Cars)

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



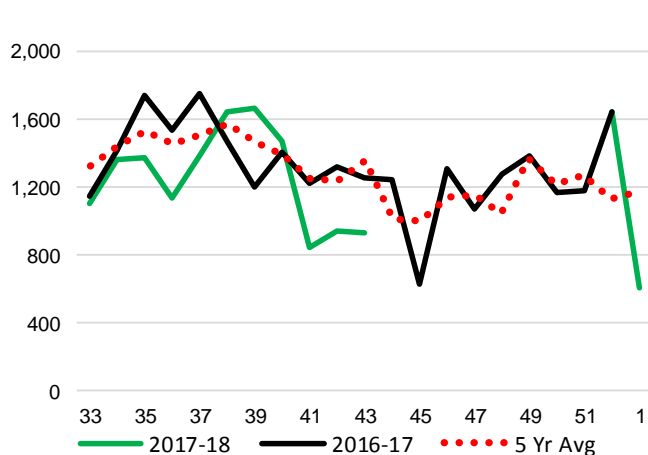
4-E Thunder Bay Unloads (# of Cars)

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

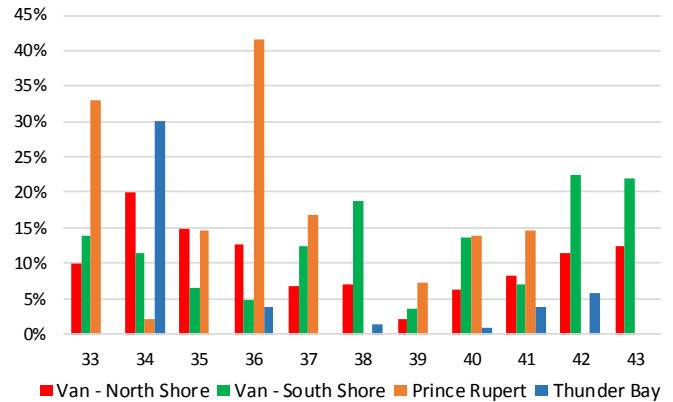


4-D Prince Rupert Unloads (# of Cars)

(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 43



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 39

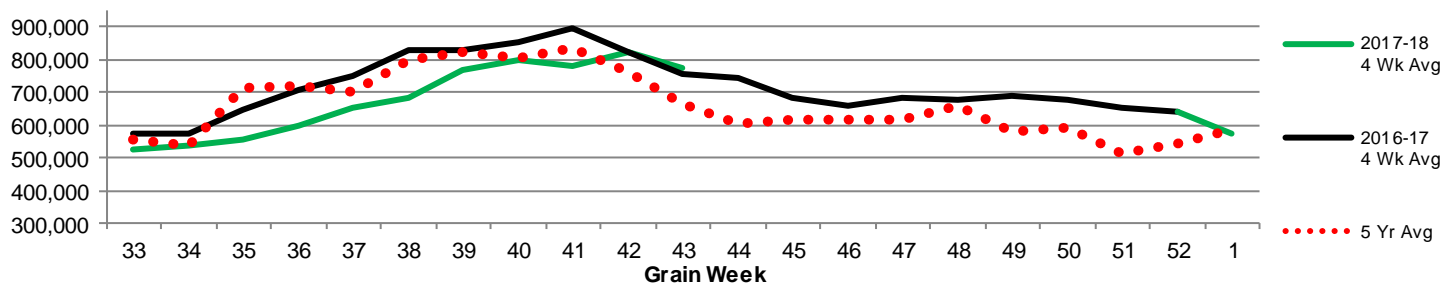
Months	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Weeks	1-5	6-9	10-13	14-18	19-22	23-27	28-31	32-35	36-39	40-44	45-48	49-52
2017-18	30,257	34,787	35,650	40,849	29,069	30,458	19,212	26,536	31,760	-	-	-
2016-17	31,197	33,447	36,002	44,476	28,797	28,771	26,824	37,057	36,789	39,112	29,666	27,065
5 Yr Avg	33,626	33,193	34,523	41,645	26,367	30,021	22,872	27,427	32,666	36,037	26,863	25,033
Var % to Last Year	-3%	4%	-1%	-8%	1%	6%	-28%	-28%	-14%			
Var % to 5 Yr Avg	-10%	5%	3%	-2%	10%	1%	-16%	-3%	-3%			

5. Shipments

5-A Shipments from Port Terminals (Tonnes) – This Year as of Week 43 and Variance to Last Year

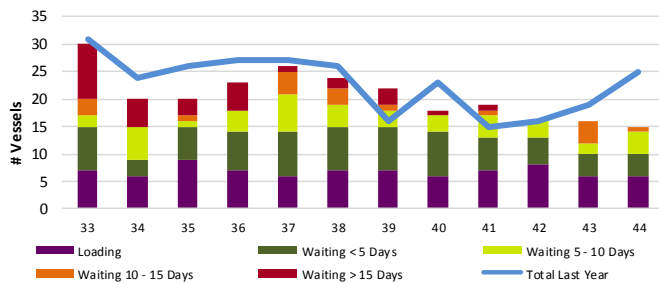
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2017-18	18,390,679	4,402,950	22,793,629	5,590,982	-	28,384,611
2016-17	18,832,296	4,747,487	23,579,783	6,317,133	-	29,896,916
5 Year Avg	17,551,388	4,856,010	22,407,398	5,968,055	270,243	28,645,696
Var % to Last Year	-2%	-7%	-3%	-11%	n/a	-5%
Var % to 5 Year Avg	5%	-9%	2%	-6%	-100%	-1%

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

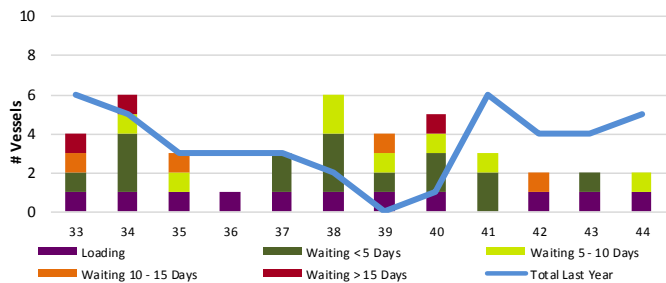


6. Vessels

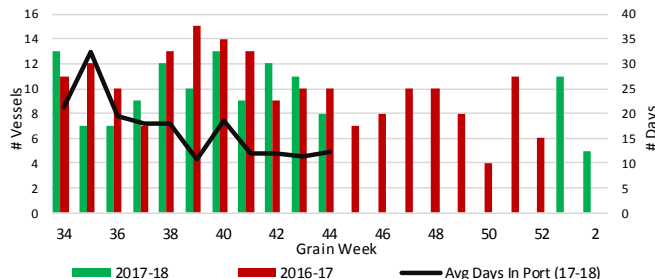
6-A Vessel lineup at Vancouver as of Week 44 2017-18



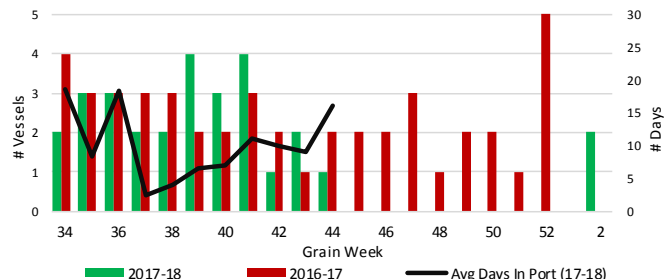
6-C Vessel lineup at Prince Rupert as of Week 44 2017-18



6-B Vessels Cleared at Vancouver up to Week 44 2017-18



6-D Vessels Cleared at Prince Rupert up to Week 44 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.