

Grain Monitoring Program

Weekly Performance Update

July 3, 2018

For Grain Week 47 (2017-18 CY)

Summary

	This Week	Last Week	Var. from Last Year	
1. Stocks in Store (Tonnes 000)				
Country Elevators	↓ 2,988.7	2,999.5	2%	
% of Working Capacity	62%	62%		
Terminal Elevators	↓ 1,072.0	1,245.5	0%	
% of Working Capacity	62%	72%		
2. Country Deliveries (Tonnes 000)				
Country Deliveries	↓ 967.4	1,017.5	-6%	
3. Railway Car Supply to Western Ports (Cars)				
CN Allocation Plan	↓ 4,314	4,417	-14%	
CN Unloads	↓ 3,020	3,571	-15%	
CP Allocation Plan	n/a	n/a	n/a	
CP Unloads	↓ 3,055	3,533	-22%	
4. Port Performance				
Total Weekly Unloads	↓ 6,075	7,104	-19%	
4 Week Rolling Average	↓ 6,433	6,870	n/a	
Var. to 4 Week RA	↓ -6%	3%	n/a	
YTD Unloads	↑ 337,877	331,802	-7%	
Weekly Out of Car Time	↓ 5.7%	9.8%	19%	
5. Shipments (YTD Tonnes 000)				
Vancouver	↑ 19,975	19,593	-2%	
Prince Rupert	↑ 4,708	4,613	-11%	
Thunder Bay	↑ 6,190	5,994	-11%	
Total Western Canada	↑ 30,873	30,201	-5%	
6. Vessels as of Jul 1, 2018				
Vancouver	Vessel Line Up	↓ 13	17	-13%
	Vessels Cleared	↑ 8	6	-20%
	Vessels Incoming	↑ 10	3	n/a
Pr. Rupert	Vessel Line Up	↑ 4	2	0%
	Vessels Cleared	↓ 1	2	0%
	Vessels Incoming	↓ 0	3	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 held 3.0 MMT in Week 47 utilizing 62% of the system's working capacity. Space in primary elevators is good.
- Total western port terminal stocks decreased to 1.1 MMT in Week 47, utilizing 62% of the working capacity.

2. Country Deliveries: (Page 2)

- Producer deliveries were 967,400 tonnes in Week 47.

3. Railway Car Supply: (Page 3)

- Railcar allocation plans are supplied by CN to Week 49 of the 2017-18 grain year (see page 3 for details).

4. Port Performance: (Page 4)

- Total western port unloads were 6% lower than the 4-week rolling average and 19% lower than Week 47 last year.
- West Coast unloads were 4,745 cars (Vancouver 3,724 and Prince Rupert 1,021), 4% lower than the 4-week rolling average and 14% lower than Week 47 last year.
- Thunder Bay unloads were 1,330 cars, 11% lower than the 4-week rolling average and 32% lower than Week 47 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) decreased to 5.7% from 9.8% in the previous week. The OCT time for Week 47 was 8.1% in Vancouver, 2.2% in Prince Rupert, and 0.0% in Thunder Bay.

5. Shipments: (Page 5)

- Year to date Western Canadian shipments from port terminal elevators at Week 47 are 5% lower than the same period last year and 1% lower than the 5-year average.

6. Vessels: (Page 5)

- Week 48 lineup at Vancouver decreased to a total of 13 vessels (The current one-year average at Vancouver is 21 vessels). Of the 13, 6 were at berth, 6 were anchored at English Bay and 1 was anchored off the southern coast of Vancouver Island.
- Prince Rupert vessel count increased to 4 vessels (The current one-year average at Prince Rupert is 4 vessels).
- Vessels cleared from Vancouver were 8, and from Prince Rupert was 1 in Week 48 of the 2017-18 crop year.

1. Stocks in Store

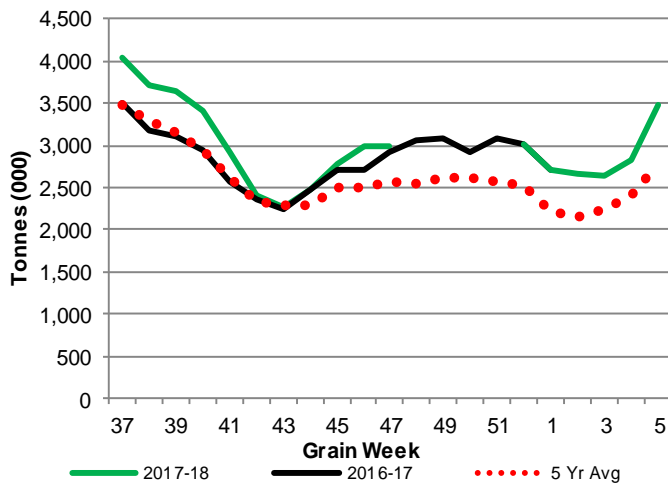
1-A1 Country Stocks ('000 tonnes) – Week 47

	MB	SK	AB	BC	Total
2017-18	596.6	1,531.6	849.3	11.2	2,988.7
2016-17	650.6	1,387.0	856.4	26.5	2,920.5
5 Yr Avg	591.8	1,361.7	809.9	24.2	2,787.7
Var % - LY	-8%	10%	-1%	-58%	2%
Var % - 5 Yr Avg	1%	12%	5%	-54%	7%
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	58%	61%	68%	42%	62%

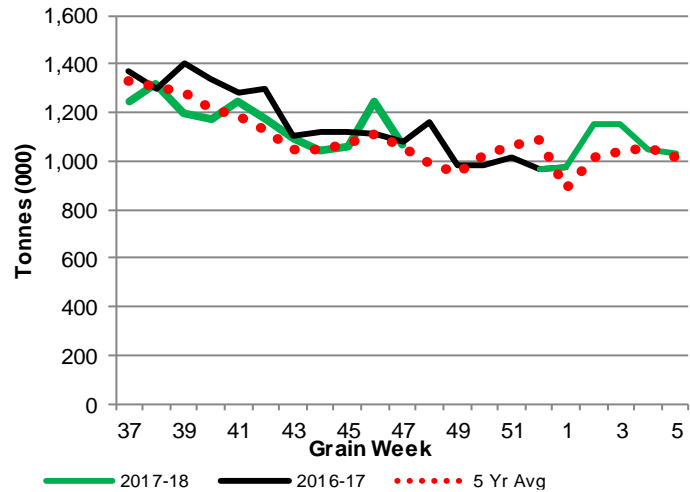
1-B1 Terminal Stocks ('000 tonnes) – Week 47

	West Coast	Churchill	Thunder Bay	Total
2017-18	666.3	29.5	376.2	1,072.0
2016-17	652.7	29.5	395.1	1,077.3
5 Yr Avg	592.3	26.3	437.5	1,056.1
Var % - LY	2%	0%	-5%	0%
Var % - 5 Yr Avg	12%	12%	-14%	2%
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	80%	30%	46%	62%

1-A2 Weekly Country Stocks in Store



1-B2 Weekly Terminal Stocks in Store

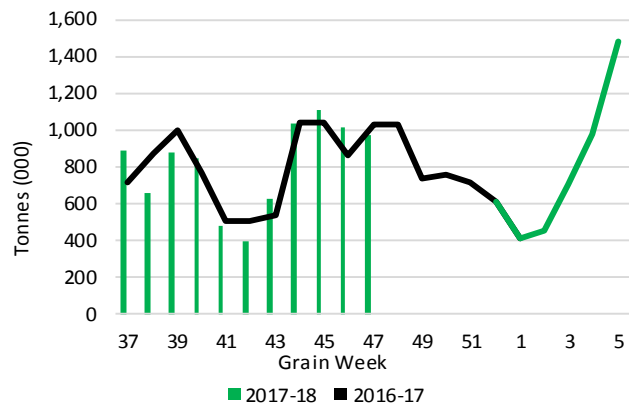


2. Country Deliveries

2-A Weekly Country Deliveries ('000 tonnes) - Week 47

	MB	SK	AB	BC	Total
2017-18	169.8	553.6	238.8	5.2	967.4
2016-17	162.8	477.9	375.6	9.9	1,026.2
4 Wk Avg	184.5	535.0	311.1	4.1	1,034.6
Var % to Last Year	4%	16%	-36%	-47%	-6%
Var % To 4 Wk Avg	-8%	3%	-23%	26%	-6%

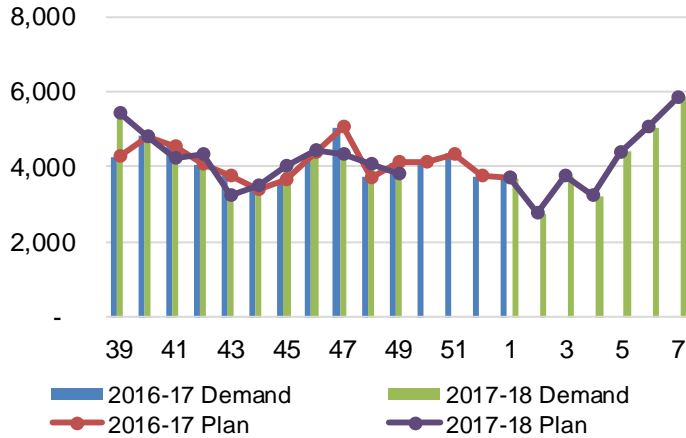
2-B 2017-18 Weekly Country Deliveries vs 2016-17



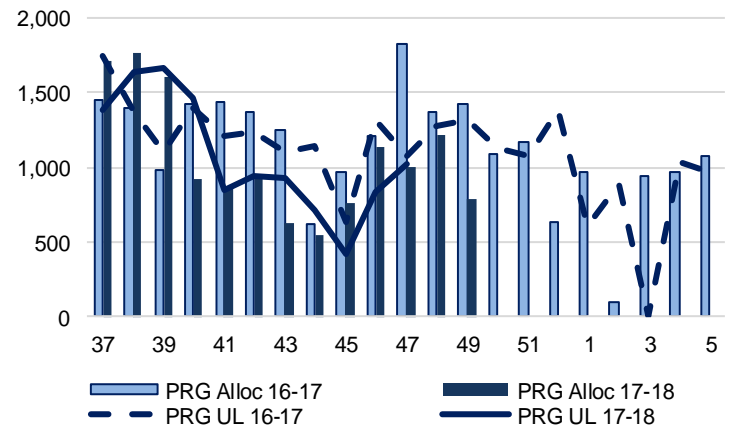
3. Railway Car Supply

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 49 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.

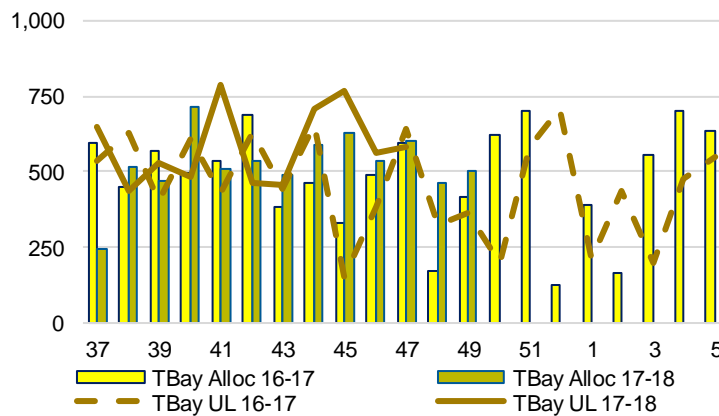
3-A: Canadian National Planned Car Allocation vs. Demand (# of Cars) To Week 49 2017-18 Crop Year



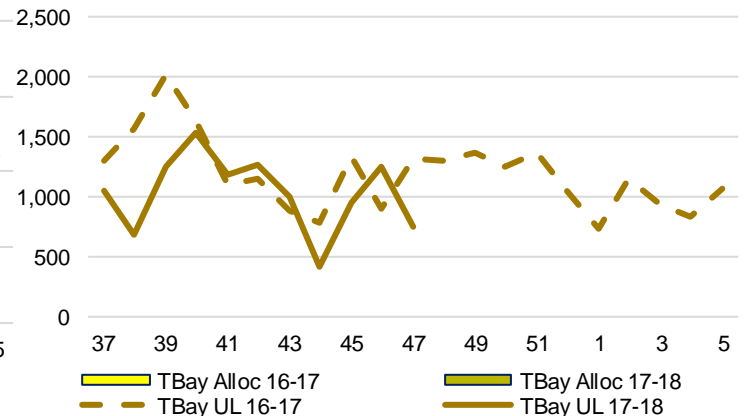
3-B3: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (# of Cars) – Prince Rupert



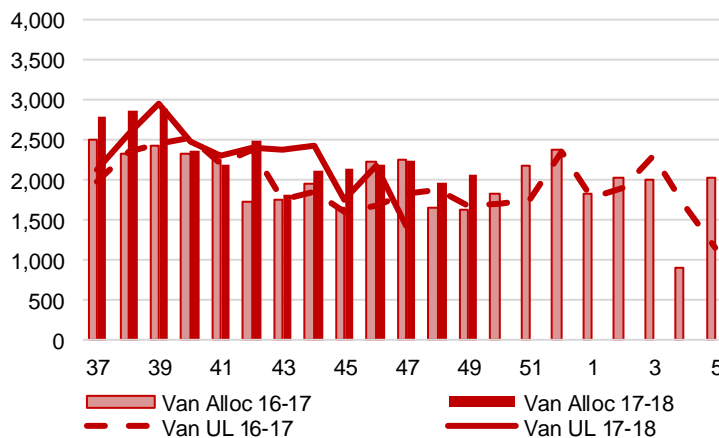
3-B1: Canadian National Planned Car Allocation to Western Ports Vs. Corridor Unloads at Port (# of Cars) – Thunder Bay



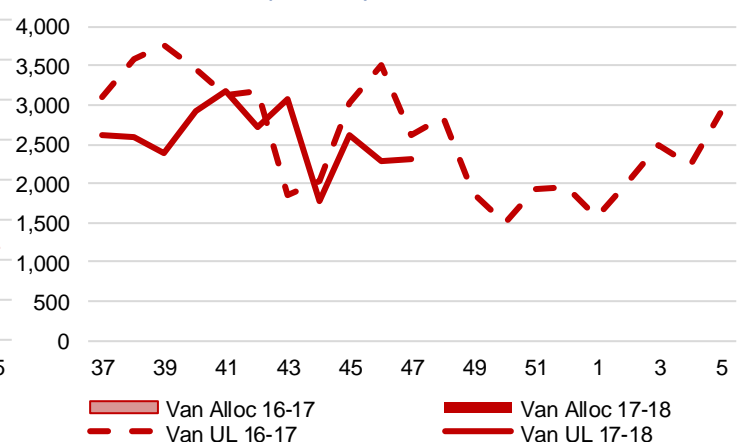
3-C1: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (# of Cars) – Thunder Bay



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 47, 4-Week Rolling Average and Variances

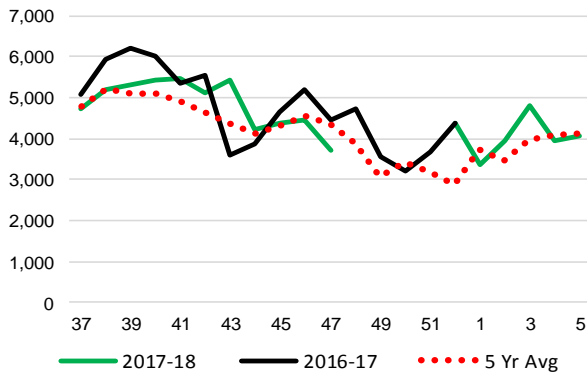
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2017-18	3,724	1,021	4,745	1,330	-	6,075
2016-17	4,453	1,073	5,526	1,958	-	7,484
4 Wk Avg	4,193	749	4,942	1,491	-	6,433
Var % to Last Year	-16%	-5%	-14%	-32%	n/a	-19%
Var % to 4 Wk Avg	-11%	36%	-4%	-11%	n/a	-6%

4-B Railcar Unloads and Tonnes – This Year to Date as of Week 47 and Variances

	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2017-18	221,764	51,223	272,987	64,890	-	337,877
2016-17	228,292	60,591	288,883	75,626	-	364,509
5 Yr Avg	209,905	59,645	269,550	70,635	2,732	342,916
Var % to Last Year	-3%	-15%	-6%	-14%	n/a	-7%
Var % to 5 Yr Avg	6%	-14%	1%	-8%	-100%	-1%
Total Tonnes						
2017-18	19,984,771	4,643,770	24,628,541	5,985,958	-	30,614,499
2016-17	20,458,304	5,401,347	25,859,651	6,941,351	-	32,801,002
5 Yr Avg	18,733,313	5,325,148	24,058,461	6,466,449	298,111	30,823,021
Var % to Last Year	-2%	-14%	-5%	-14%	n/a	-7%
Var % to 5 Yr Avg	7%	-13%	2%	-7%	-100%	-1%

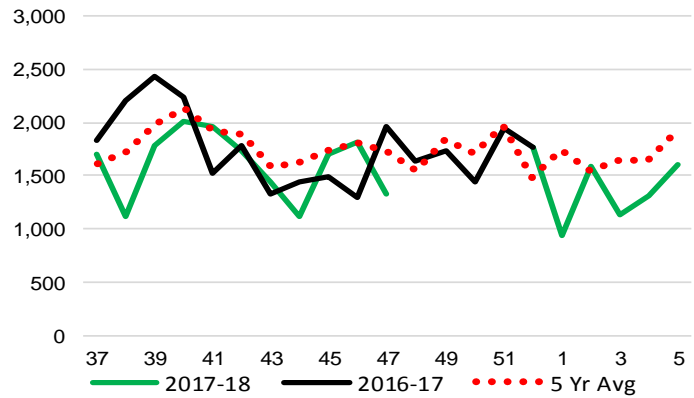
4-C Vancouver Unloads (# of Cars)

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



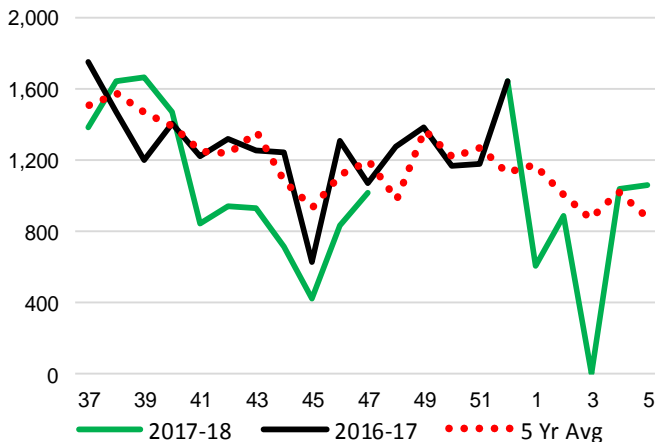
4-E Thunder Bay Unloads (# of Cars)

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

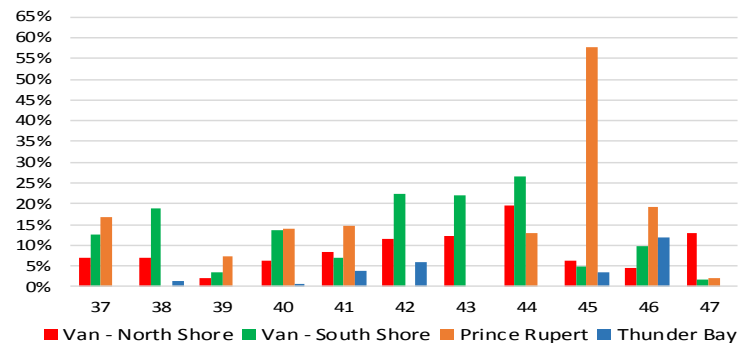


4-D Prince Rupert Unloads (# of Cars)

(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 47



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 44

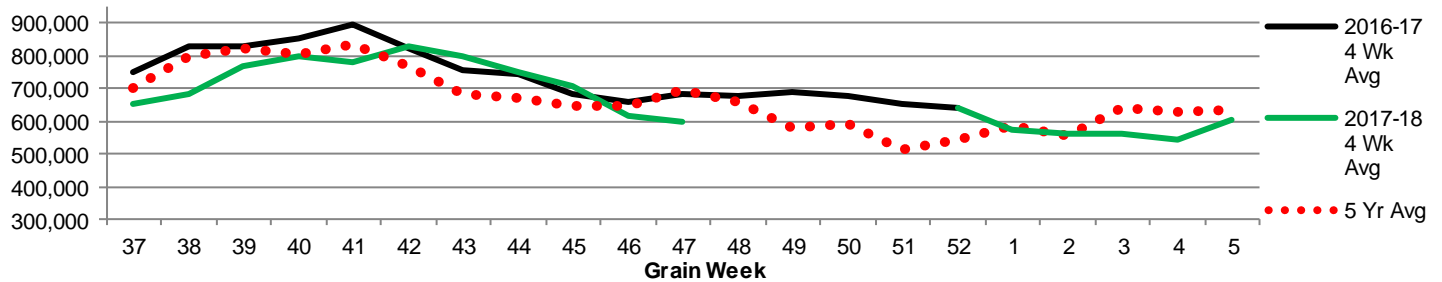
Months	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Weeks	1-5	6-9	10-13	14-18	19-22	23-27	28-31	32-35	36-39	40-44	45-48	49-52
2017-18	30,257	34,787	35,650	40,849	29,069	30,458	19,212	26,536	32,503	38,808	-	-
2016-17	31,197	33,447	36,002	44,476	28,797	28,771	26,824	37,057	36,789	39,112	29,666	27,065
5 Yr Avg	33,626	33,193	34,523	41,645	26,367	30,021	22,892	27,480	32,814	38,593	26,863	25,033
Var % to Last Year	-3%	4%	-1%	-8%	1%	6%	-28%	-28%	-12%	-1%		
Var % to 5 Yr Avg	-10%	5%	3%	-2%	10%	1%	-16%	-3%	-1%	1%		

5. Shipments

5-A Shipments from Port Terminals (Tonnes) – This Year as of Week 47 and Variance to Last Year

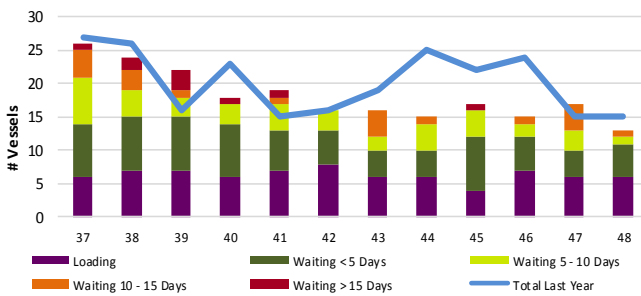
	<u>Vancouver</u>	<u>Prince Rupert</u>	<u>West Coast</u>	<u>Thunder Bay</u>	<u>Churchill</u>	<u>Total</u>
2017-18	19,974,722	4,708,149	24,682,871	6,190,432	-	30,873,303
2016-17	20,361,267	5,283,622	25,644,889	6,977,651	-	32,622,540
5 Year Avg	19,141,501	5,286,916	24,428,417	6,635,845	270,243	31,334,505
Var % to Last Year		-2%	-11%	-4%	n/a	-5%
Var % to 5 Year Avg		4%	-11%	1%	-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

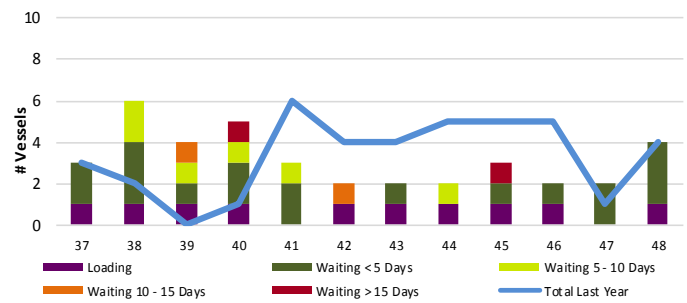


6. Vessels

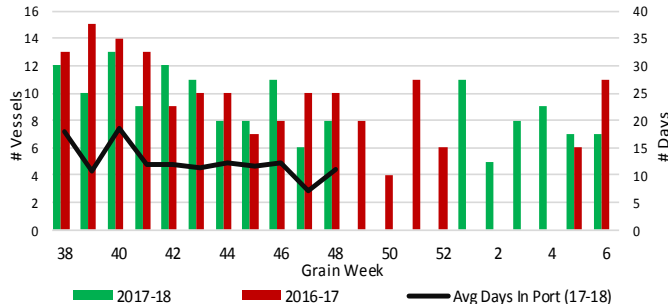
6-A Vessel lineup at Vancouver as of Week 48 2017-18



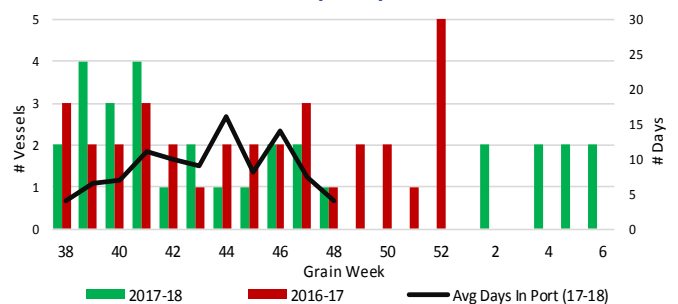
6-C Vessel lineup at Prince Rupert as of Week 48 2017-18



6-B Vessels Cleared at Vancouver up to Week 48 2017-18



6-D Vessels Cleared at Prince Rupert up to Week 48 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.