

# Grain Monitoring Program

## Weekly Performance Update

July 24, 2018

For Grain Week 50 (2017-18 CY)

### Summary

	This Week	Last Week	Var. from Last Year	
<b>1. Stocks in Store (Tonnes 000)</b>				
Country Elevators	↓ 3,013.2	3,082.9	3%	
% of Working Capacity	63%	64%		
Terminal Elevators	↑ 1,173.4	1,129.2	19%	
% of Working Capacity	67%	65%		
<b>2. Country Deliveries (Tonnes 000)</b>				
Country Deliveries	↑ 764.9	598.8	1%	
<b>3. Railway Car Supply to Western Ports (Cars)</b>				
CN Allocation Plan	↑ 3,936	3,804	-5%	
CN Unloads	↓ 3,148	3,390	4%	
CP Allocation Plan	n/a	n/a	n/a	
CP Unloads	↓ 2,349	3,734	-15%	
<b>4. Port Performance</b>				
Total Weekly Unloads	↓ 5,813	7,124	0%	
4 Week Rolling Average	↓ 6,489	6,811	n/a	
Var. to 4 Week RA	↓ -10%	5%	n/a	
YTD Unloads	↑ 357,756	351,943	-7%	
Weekly Out of Car Time	↓ 3.6%	4.0%	-56%	
<b>5. Shipments (YTD Tonnes 000)</b>				
Vancouver	↑ 21,161	20,947	-2%	
Prince Rupert	↑ 4,920	4,849	-11%	
Thunder Bay	↑ 6,665	6,457	-12%	
<b>Total Western Canada</b>	<b>↑ 32,747</b>	<b>32,253</b>	<b>-6%</b>	
<b>6. Vessels as of Jul 22, 2018</b>				
Vancouver	Vessel Line Up	↓ 8	15	-50%
	Vessels Cleared	↑ 11	8	0%
	Vessels Incoming	↑ 9	5	n/a
Pr. Rupert	Vessel Line Up	↑ 2	1	-67%
	Vessels Cleared	— 2	2	100%
	Vessels Incoming	↑ 3	2	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 3.0 MMT in Week 50 utilizing 63% of the system's working capacity. Space in primary elevators is good.
- Total western port terminal stocks increased to 1.2 MMT in Week 50, utilizing 67% of the working capacity.

#### 2. Country Deliveries: (Page 2)

- Producer deliveries were 764,900 tonnes in Week 50.

#### 3. Railway Car Supply: (Page 3)

- Railcar allocation plans are supplied by CN to Week 52 of the 2017-18 grain year (see page 3 for details).

#### 4. Port Performance: (Page 4)

- Total western port unloads were 10% lower than the 4-week rolling average and even with Week 50 last year.
- West Coast unloads were 4,114 cars (Vancouver 3,047 and Prince Rupert 1,067), 15% lower than the 4-week rolling average and 6% lower than Week 50 last year.
- Thunder Bay unloads were 1,699 cars, 4% higher than the 4 week-rolling average and 18% higher than Week 50 last year.
- Year to date total western port unloads are 7% lower than same period last year. The corresponding tonnage is 6% lower.
- The total average terminal out of car time (OCT) decreased to 3.6% from 4.0% in the previous week. The OCT time for Week 50 was 5.6% in Vancouver, 2.6% in Prince Rupert, and 0.1% in Thunder Bay.

#### 5. Shipments: (Page 5)

- Year to date Western Canadian shipments from port terminal elevators at Week 50 are 6% lower than the same period last year and 2% lower than the 5-year average.

#### 6. Vessels: (Page 5)

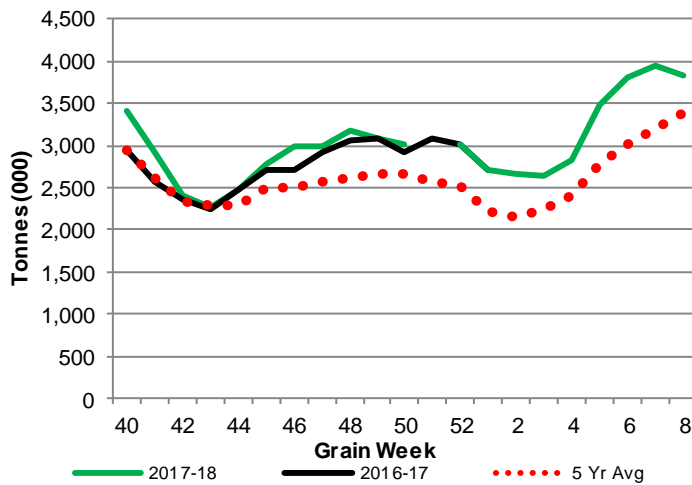
- Week 51 lineup at Vancouver decreased to a total of 8 vessels (The current one-year average at Vancouver is 21 vessels). Of the 8, 5 were at berth, 2 were anchored at English Bay, and 1 was anchored in Burrard Inlet.
- Prince Rupert vessel count increased to 2 vessels (The current one-year average at Prince Rupert is 4 vessels).
- Vessels cleared from Vancouver were 11, and from Prince Rupert were 2 in Week 51 of the 2017-18 crop year.

# 1. Stocks in Store

## 1-A1 Country Stocks ('000 tonnes) – Week 50

	MB	SK	AB	BC	Total
2017-18	619.2	1,563.1	817.1	13.8	3,013.2
2016-17	554.4	1,427.8	917.2	26.7	2,926.1
5 Yr Avg	538.0	1,368.4	877.6	22.0	2,806.1
Var % - LY	12%	9%	-11%	-48%	3%
Var % - 5 Yr Avg	15%	14%	-7%	-37%	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	60%	62%	66%	52%	63%

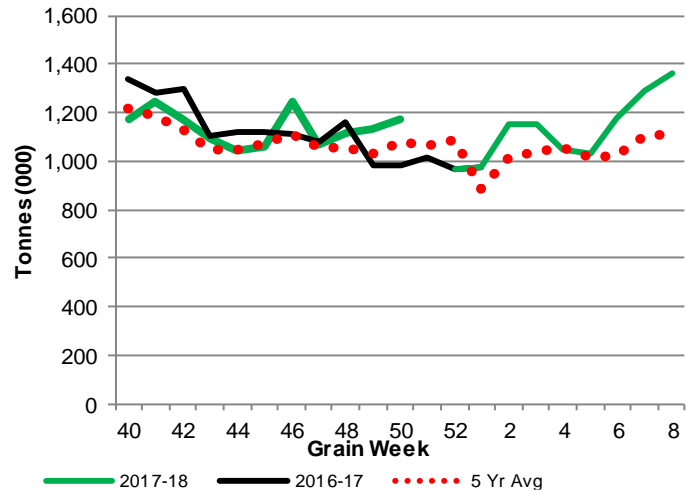
## 1-A2 Weekly Country Stocks in Store



## 1-B1 Terminal Stocks ('000 tonnes) – Week 50

	West Coast	Churchill	Thunder Bay	Total
2017-18	700.1	29.5	443.8	1,173.4
2016-17	594.0	29.5	359.1	982.6
5 Yr Avg	603.9	29.2	449.3	1,082.4
Var % - LY	18%	0%	24%	19%
Var % - 5 Yr Avg	16%	1%	-1%	8%
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	84%	30%	55%	67%

## 1-B2 Weekly Terminal Stocks in Store

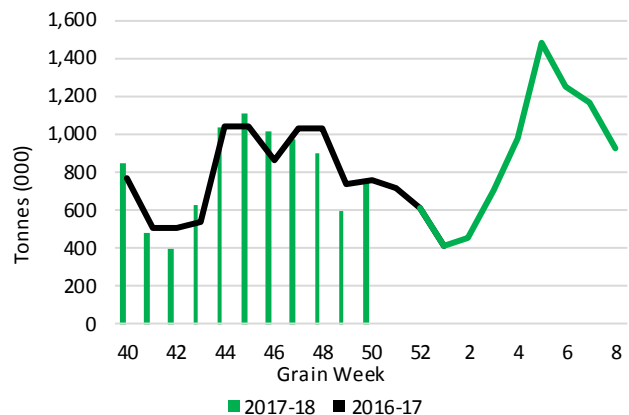


# 2. Country Deliveries

## 2-A Weekly Country Deliveries ('000 tonnes) - Week 50

	MB	SK	AB	BC	Total
2017-18	122.3	448.9	189.8	3.9	764.9
2016-17	119.8	403.4	232.7	4.0	759.8
4 Wk Avg	138.9	452.6	211.8	4.8	808.0
Var % to Last Year	2%	11%	-18%	-3%	1%
Var % To 4 Wk Avg	-12%	-1%	-10%	-19%	-5%

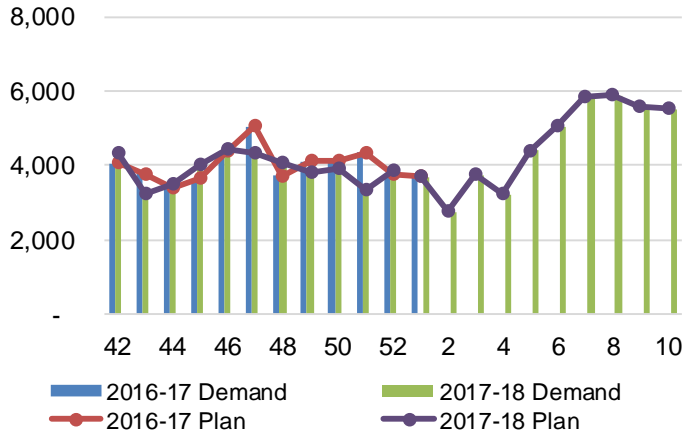
## 2-B 2017-18 Weekly Country Deliveries vs 2016-17



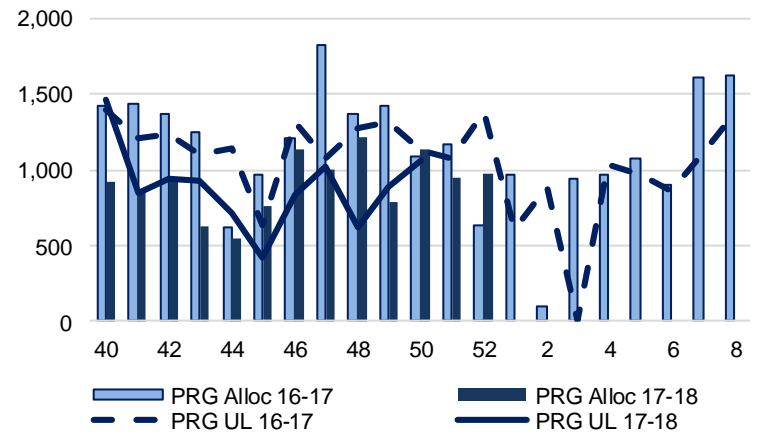
### 3. Railway Car Supply

**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 52 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.

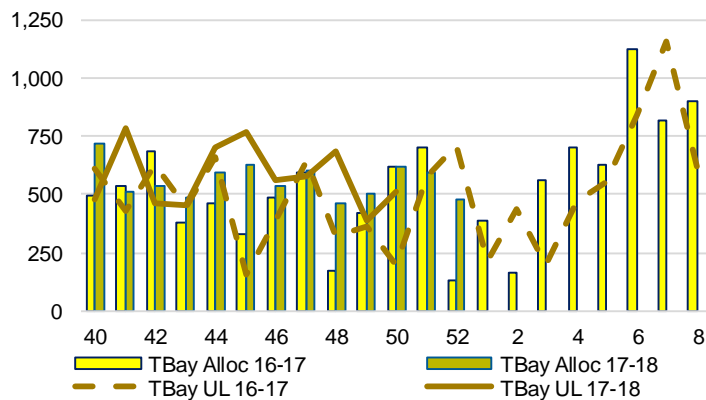
**3-A: Canadian National Planned Car Allocation vs. Demand (# of Cars) To Week 52 2017-18 Crop Year**



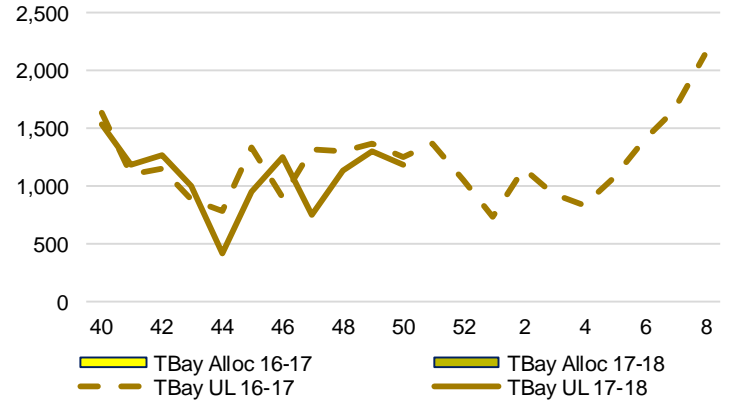
**3-C1: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (# of Cars) – Thunder Bay**



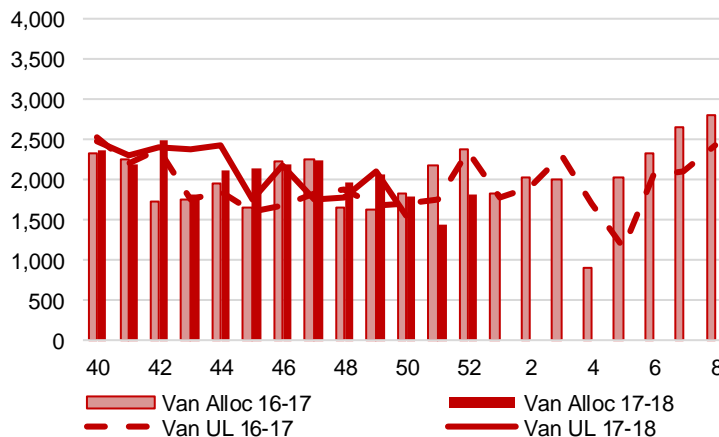
**3-B1: Canadian National Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (# of Cars) – Thunder Bay**



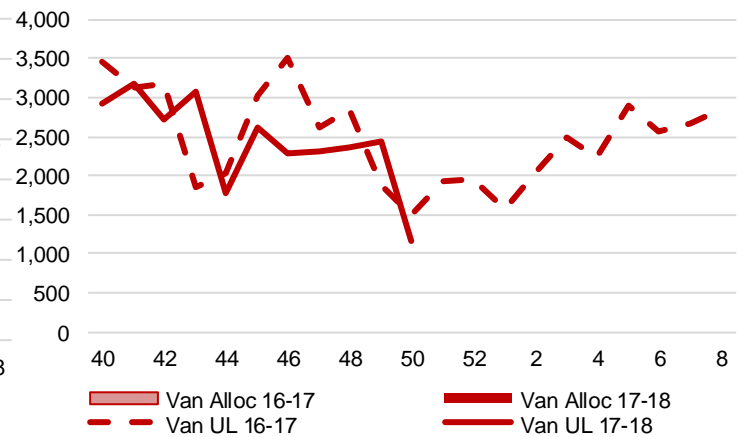
**3-C2: Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port (# of Cars) – Vancouver**



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



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



## 4. Port Performance

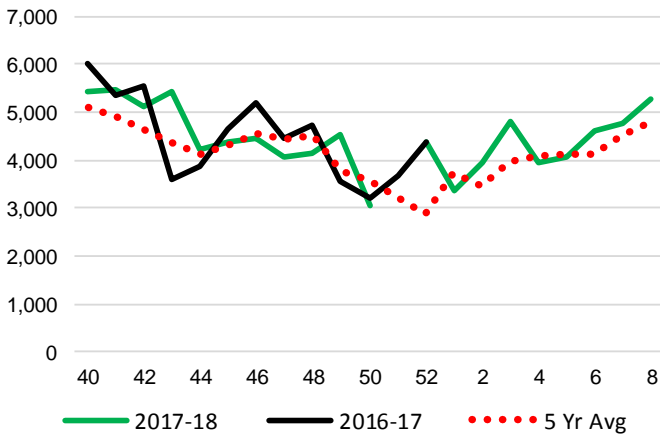
4-A Weekly Unloads by Port (Cars) – This Year for Week 50, 4-Week Rolling Average and Variances

	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2017-18	3,047	1,067	4,114	1,699	-	5,813
2016-17	3,211	1,164	4,375	1,440	-	5,815
4 Wk Avg	3,951	900	4,851	1,638	-	6,489
Var % to Last Year	-5%	-8%	-6%	18%	n/a	0%
Var % to 4 Wk Avg	-23%	19%	-15%	4%	n/a	-10%

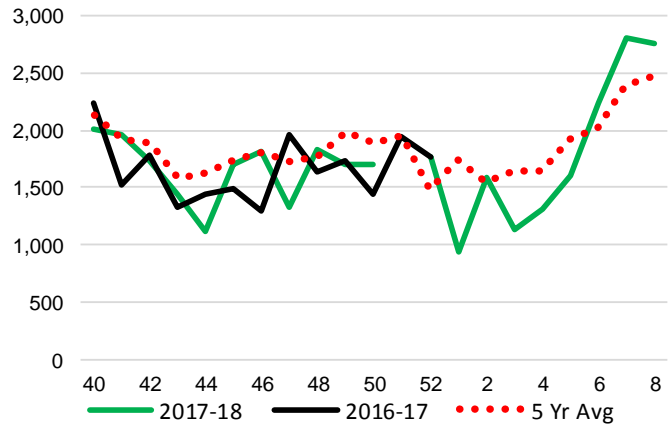
4-B Railcar Unloads and Tonnes – This Year to Date as of Week 50 and Variances

	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
<b>Total Cars</b>						
2017-18	233,844	53,801	287,645	70,111	-	357,756
2016-17	239,764	64,415	304,179	80,422	-	384,601
5 Yr Avg	221,821	63,369	285,190	76,284	2,822	364,296
Var % to Last Year	-2%	-16%	-5%	-13%	n/a	-7%
Var % to 5 Yr Avg	5%	-15%	1%	-8%	-100%	-2%
<b>Total Tonnes</b>						
2017-18	21,043,135	4,879,514	25,922,649	6,476,599	-	32,399,248
2016-17	21,482,437	5,742,871	27,225,308	7,390,865	-	34,616,173
5 Yr Avg	19,790,491	5,655,397	25,445,889	6,989,715	307,090	32,742,693
Var % to Last Year	-2%	-15%	-5%	-12%	n/a	-6%
Var % to 5 Yr Avg	6%	-14%	2%	-7%	-100%	-1%

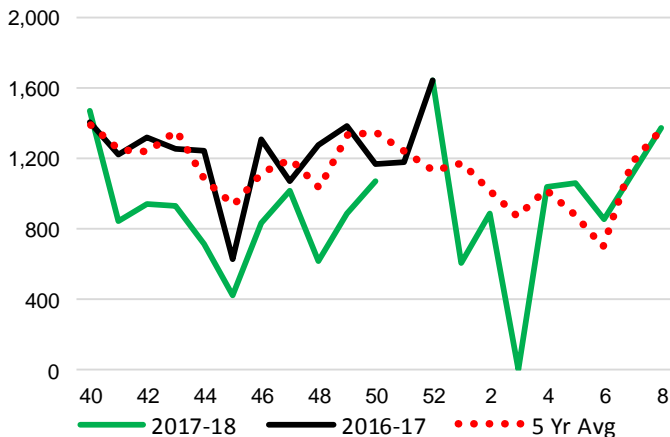
4-C Vancouver Unloads (# of Cars)  
(This Year vs. Last Year and the 5-Year Average)



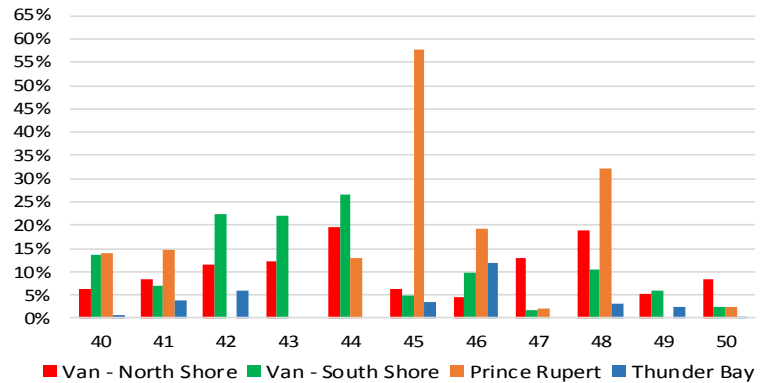
4-E Thunder Bay Unloads (# of Cars)  
(This Year vs. Last Year and the 5-Year Average)



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 50



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

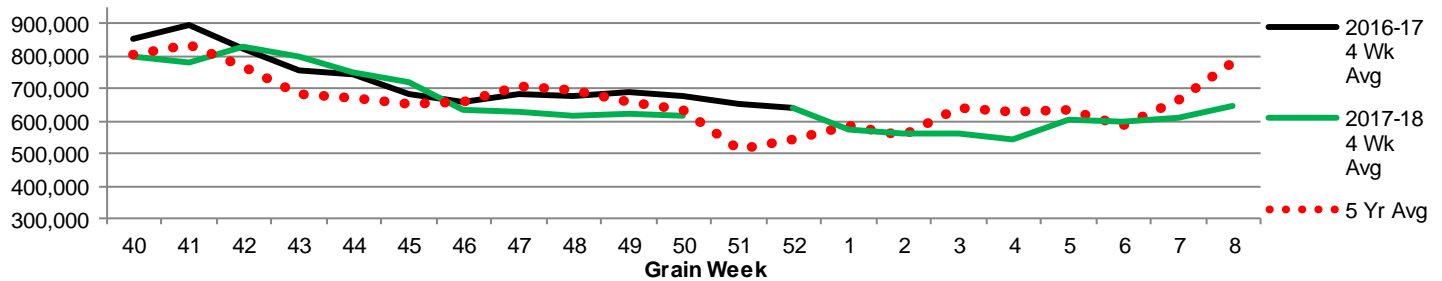
Months	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Weeks	1-5	6-9	10-13	14-18	19-22	23-27	28-31	32-35	36-39	40-44	45-48	49-52
2017-18	30,257	34,787	35,650	40,849	29,069	30,458	19,212	26,536	32,503	38,863	26,635	-
2016-17	31,197	33,447	36,002	44,476	28,797	28,771	26,824	37,057	36,789	39,112	29,666	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 50 and Variance to Last Year

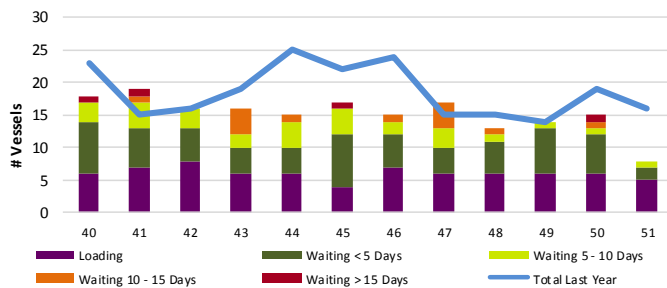
	Vancouver	Prince Rupert	West Coast	Thunder Bay	Churchill	Total
2017-18	21,161,496	4,920,469	26,081,965	6,665,318	-	32,747,283
2016-17	21,582,208	5,535,982	27,118,190	7,549,678	-	34,667,868
5 Year Avg	20,325,648	5,606,876	25,932,523	7,151,883	270,243	33,354,650
Var % to Last Year	-2%	-11%	-4%	-12%	n/a	-6%
Var % to 5 Year Avg	4%	-12%	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

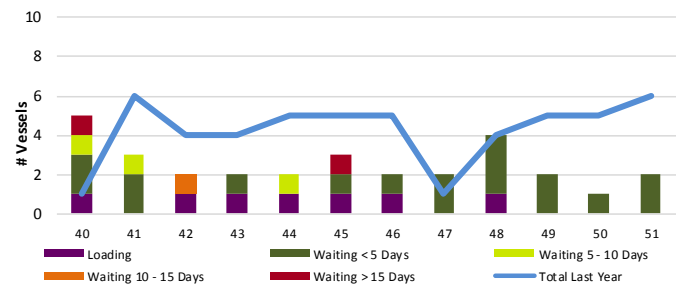


## 6. Vessels

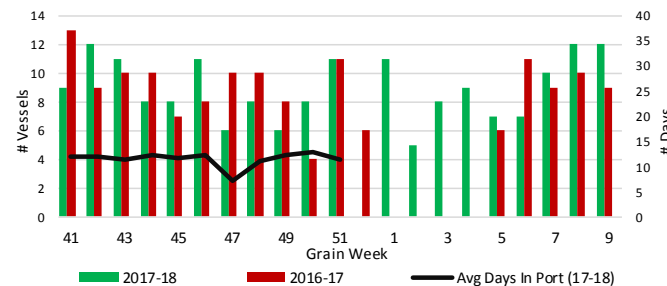
6-A Vessel lineup at Vancouver as of Week 51 2017-18



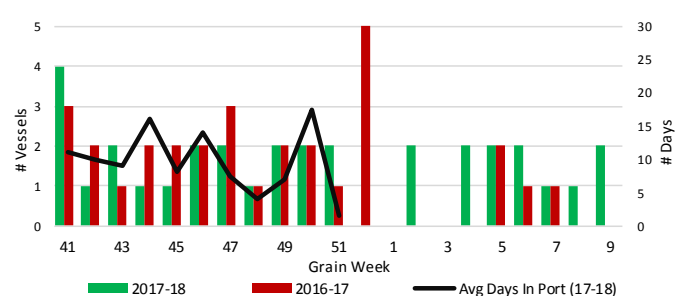
6-C Vessel lineup at Prince Rupert as of Week 51 2017-18



6-B Vessels Cleared at Vancouver up to Week 51 2017-18



6-D Vessels Cleared at Prince Rupert up to Week 51 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.