

# Grain Monitoring Program

## Performance Update

August 1, 2017

For Grain Week 51 (2016-17 CY)



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### Summary

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#### Stocks in Store: (Page 2)

- Country stocks increased to 3.1 MMT in Week 51 utilizing 65% of the system's working capacity. Space in country elevators is good. Producer deliveries were 0.7 MMT in Week 51.
- Total western port terminal stocks remained at 1.0 MMT in Week 51, utilizing 58% of the working capacity.

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

- Railcar allocation plans are supplied by CN to Week 1 of the 2017-18 grain year (see page 3 for details).

#### Port Unloads: (Page 5 & 6)

- Total western port unloads are 1% higher than the 4-week rolling average and 28% higher than Week 51 last year.
- West Coast unloads were 4,867 cars (Vancouver 3,686 and Prince Rupert 1,181), 3% lower than the 4-week rolling average and 34% higher than Week 51 last year.
- Thunder Bay terminals unloaded 1,949 cars, 16% higher than the 4-week rolling average and 15% higher than Week 51 last year.
- Year to date total western port unloads are 5% higher than the same period last year. The corresponding tonnage is 6% higher.
- The total average terminal out of car time (OCT) increased to 11.6% from 8.2% in the previous week. The OCT time for Week 51 was 18% in Vancouver, 0% in Prince Rupert, and 2% in Thunder Bay.

#### Shipments: (Page 7)

- Vessels cleared from Vancouver were 6, and from Prince Rupert were 2 in Week 52 of the 2016-17 crop year.
- Year to date Western Canadian shipments from port terminal elevators at Week 51 are 2% higher than the same period last year and 5% higher than the 5-year average.

#### Vessel Lineups: (Page 8)

- Week 52 lineup at Vancouver decreased to a total of 15 vessels (The current one-year average at Vancouver is 22 vessels). Of the 15, 5 were at berth, 6 were anchored at English Bay, and 4 were anchored along the southern shore of Vancouver Island.
- Prince Rupert vessel count decreased to a total of 5 vessels (The current one-year average at Prince Rupert is 4 vessels).

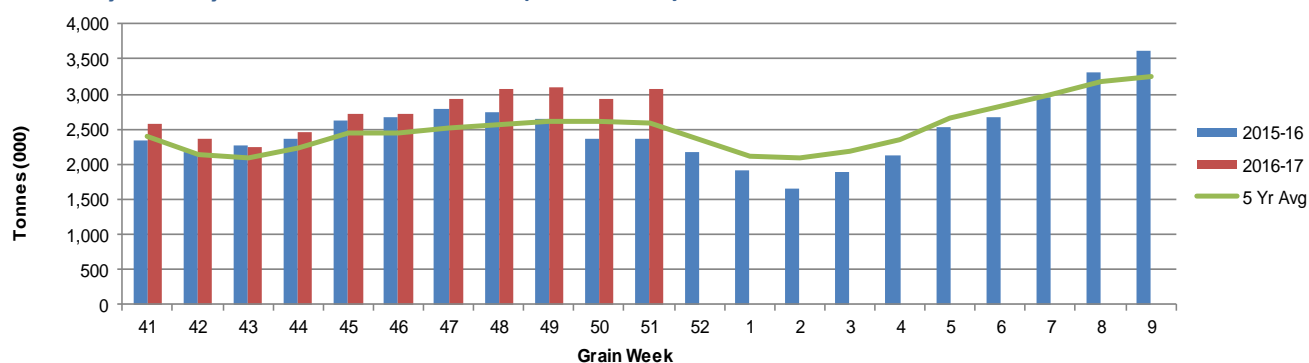
## 1. Stocks in Store (Source CGC Grain Stats Weekly)

### 1-A Country Elevator Stocks in Store ('000 tonnes) – This Year as of Week 51 (wk end July 23, 2017)

	Manitoba	Saskatchewan	Alberta	B.C.	Total
5 Yr Avg	474.0	1,301.9	784.3	20.4	2,580.7
2015-16	480.5	1,206.5	663.8	13.0	2,363.8
2016-17	665.5	1,437.1	947.0	24.9	3,074.5
Var % - LY	39%	19%	43%	92%	30%
Var % - 5 Yr Avg	40%	10%	21%	22%	19%
Storage Capacity	1,577.0	3,740.5	1,903.6	41.1	7,262.2
% Utilized	42%	38%	50%	61%	42%
Estimated Working Capacity	1,025.1	2,431.3	1,237.3	26.7	4,720.4
% Utilized	65%	59%	77%	93%	65%

Note: The working capacity is an estimate made by Quorum based on general feedback from grain companies and should not be deemed an "exact" calculation.

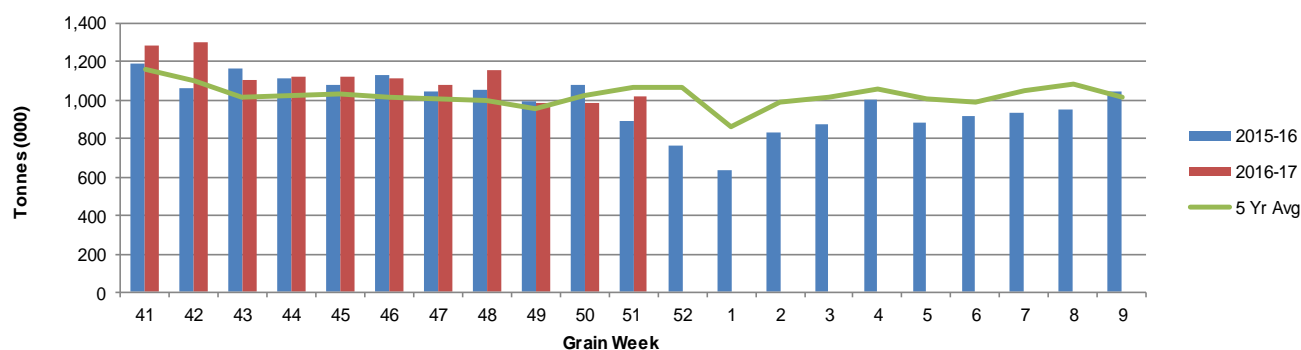
### 1-B Weekly Country Elevator Stocks in Store ('000 tonnes)



### 1-C Terminal Elevator Stocks in Store ('000 tonnes) – This Year as of Week 51 (wk end July 23, 2017)

	West Coast	Churchill	Thunder Bay	Total
5 Yr Avg	538.8	72.7	454.1	1,065.5
2015-16	475.8	29.5	382.8	888.1
2016-17	623.8	29.5	362.5	1,015.8
Var % - LY	31%	0%	-5%	14%
Var % - 5 Yr Avg	16%	-59%	-20%	-5%
Terminal Storage Capacity	1,187.5	140.0	1,157.5	2,485.0
Working Capacity (at 70%)	831.3	98.0	810.3	1,739.5
TY % of Wkg Cap	75%	30%	45%	58%

### 1-D Weekly Terminal Stocks in Store ('000 tonnes)



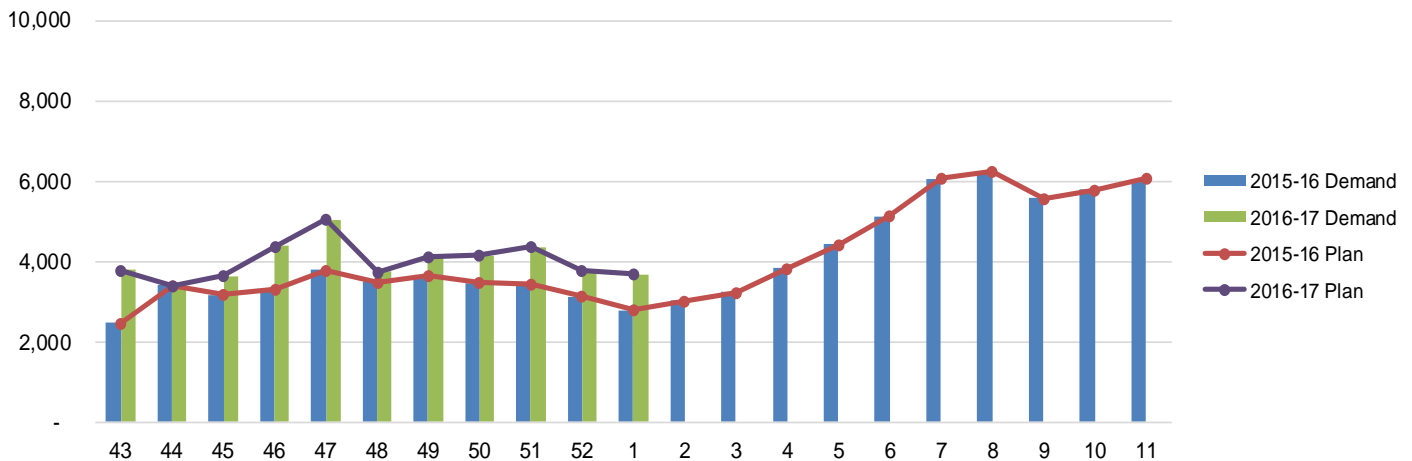
## 2. Rail Related Performance

**Special Note to readers:** CP discontinued publishing weekly railcar spotting plans in week 12 of the 2014-15 crop year (GCRS Service Report). Consequently the GMP does not have access to reliable order fulfillment data after that period.

CN continues to publish a weekly plan and the graphs below reflect CN's plan to Week 1 of 2017-18.

Note that the orders accepted do not necessarily reflect shipper demand, but rather the railways' acceptance of shippers' car orders.

### 2-A CN Railway Planned Car Allocation vs. Demand – To Week 1 2017-18 CY



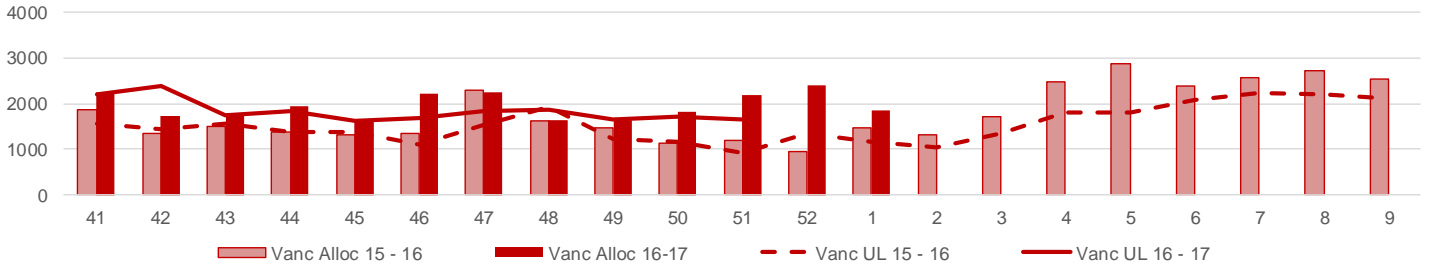
### Allocation vs. Unload Performance

Presently only CN provides detailed order-fulfillment data by corridor, although their weekly order-book report and data on actual cars supplied is provided monthly. CP provides neither weekly plans nor monthly disaggregated order-fulfillment data. As such, CP's current-year car allocation summaries for Vancouver and Thunder Bay are not reflected in the accompanying graphs below.

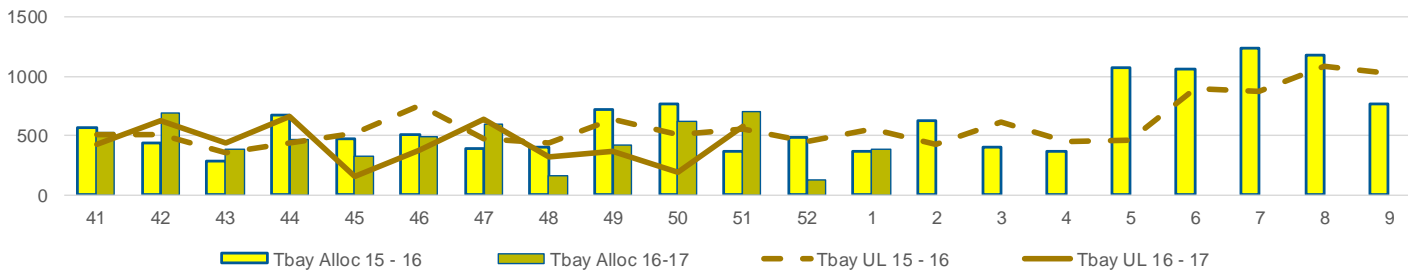
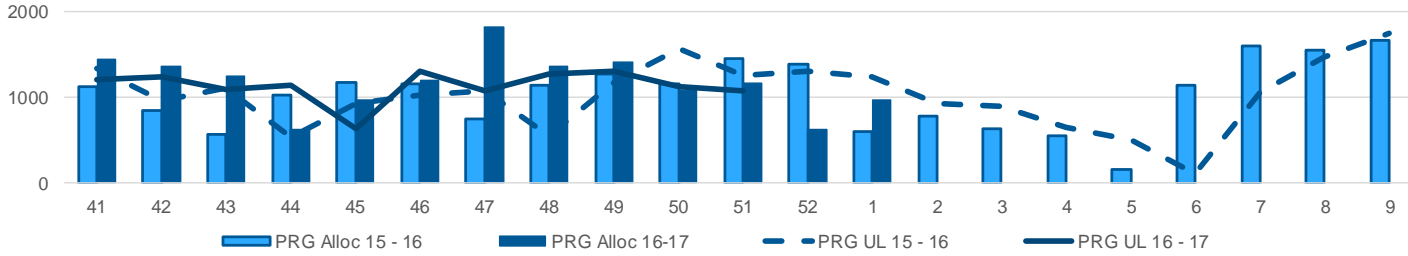
Based on the assumption that cars spotted and loaded in the country one week will be unloaded at port the following week, the ensuing graphs depict a comparison of the planned railway car allocation, by week in each port corridor, to the cars unloaded at port the following week. When both railways provide 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.

The following review pertains to the allocation of CN movements in the 2014-15, 2015-16, 2016-17, and 2017-18 crop years, while allocation for CP is unavailable. These are compared to current weeks' unloads in each of the major Western Port Corridors.

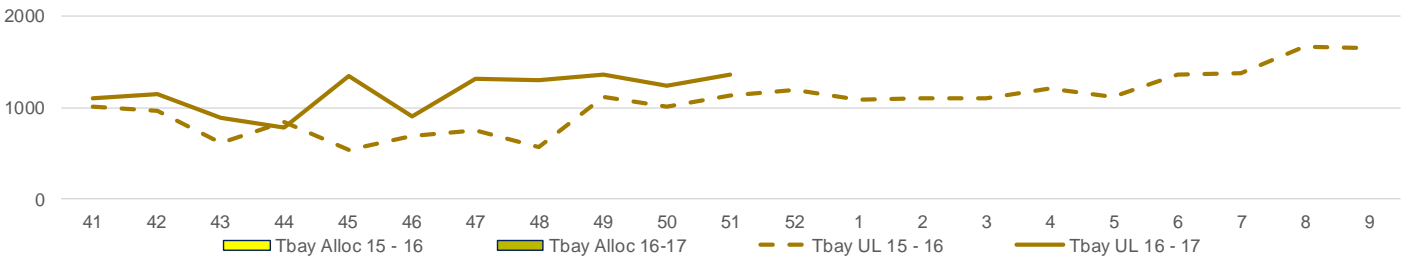
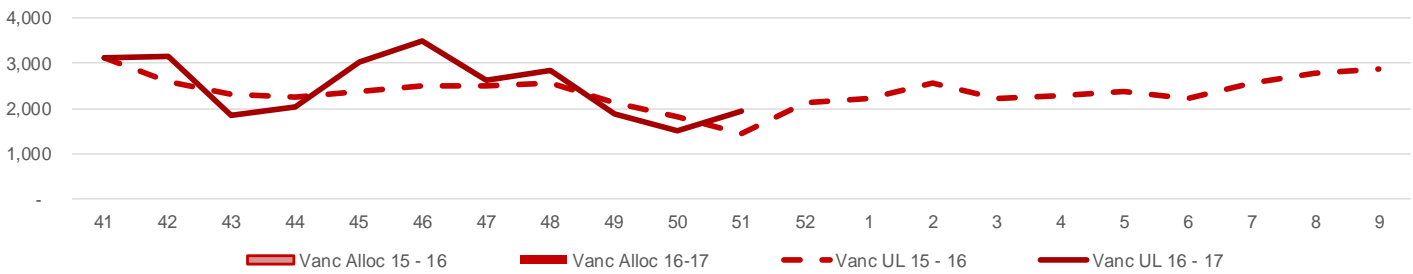
## 2-B Canadian National Planned Car Allocation to Western Ports vs. Corridor Unloads at Port



Note: Railway allocation of cars to Vancouver include cars destined to transloaders which ARE NOT included in the weekly unload statistics. On average, this accounts for 100-152 cars weekly.



## 2-C Canadian Pacific Planned Car Allocation to Western Ports vs. Corridor Unloads at Port



### 3. Port Performance

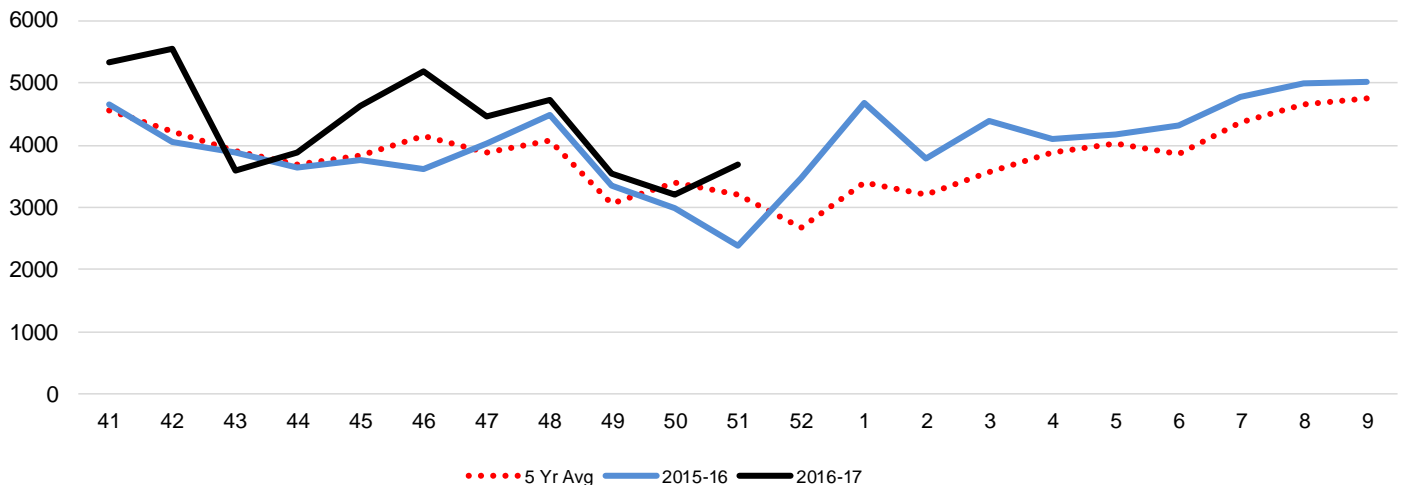
#### 3-A Weekly Unloads by Port (Cars) – This Year for Week 51, 4-Week Rolling Average and Variances

	<u>Vancouver</u>	<u>Prince Rupert</u>	<u>West Coast</u>	<u>Thunder Bay</u>	<u>Churchill</u>	<u>Total</u>
2015-16	2,378	1,263	3,641	1,695	-	5,336
2016-17	3,686	1,181	4,867	1,949	-	6,816
4 Wk Avg	3,789	1,251	5,041	1,686	-	6,727
Var % to Last Year	55%	-6%	34%	15%	n/a	28%
Var % to 4 Wk Avg	-3%	-6%	-3%	16%	n/a	1%

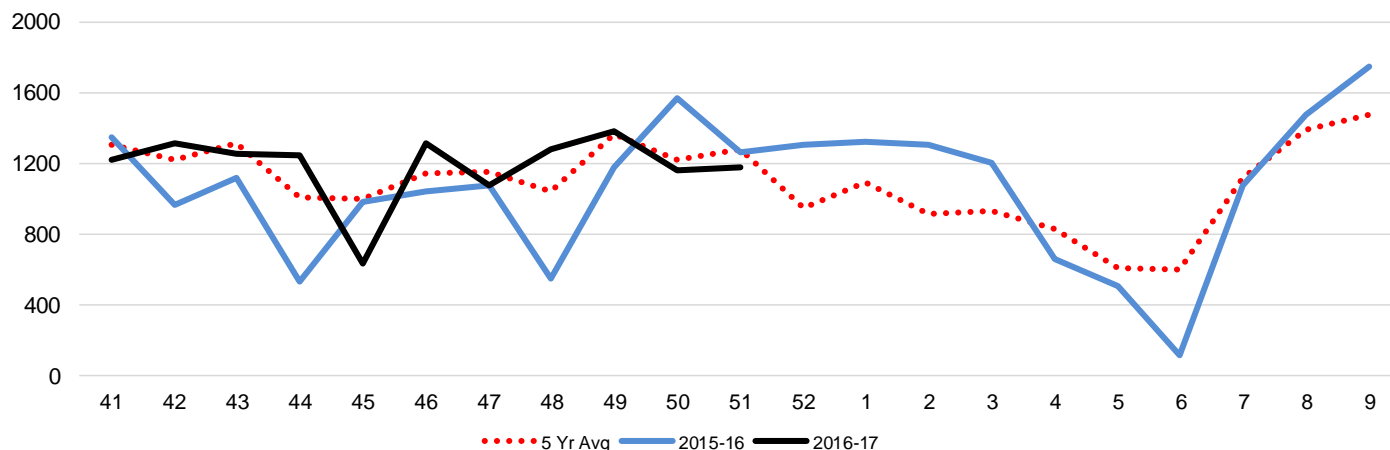
#### 3-B Railcar Unloads and Tonnes – This Year to Date as of Week 51 and Variances

	<u>Vancouver</u>	<u>Prince Rupert</u>	<u>West Coast</u>	<u>Thunder Bay</u>	<u>Churchill</u>	<u>Total</u>
<b>Total Cars</b>						
5 Yr Avg	212,450	64,802	277,252	76,700	5,794	359,746
2015-16	227,898	67,993	295,891	76,384	1,684	373,959
2016-17	243,449	65,596	309,045	82,370	-	391,415
Var % to Last Year	7%	-4%	4%	8%	-100%	5%
Var % to 5 Yr Avg	15%	1%	11%	7%	-100%	9%
<b>Total Tonnes</b>						
5 Yr Avg	18,818,523	5,777,832	24,596,355	6,968,536	516,281	32,081,171
2015-16	20,229,541	6,039,648	26,269,189	6,977,488	148,750	33,395,427
2016-17	21,815,529	5,846,314	27,661,843	7,574,595	-	35,236,438
Var % to Last Year	8%	-3%	5%	9%	-100%	6%
Var % to 5 Yr Avg	16%	1%	12%	9%	-100%	10%
<b>Total Tonnes/ Car</b>						
5 Yr Avg	88.58	89.16	88.71	90.85	89.11	89.18
2015-16	88.77	88.83	88.78	91.35	88.33	89.30
2016-17	89.61	89.13	89.51	91.96	n/a	90.02
Var % to Last Year	1%	0%	1%	1%	n/a	1%
Var % to 5 Yr Avg	1%	0%	1%	1%	n/a	1%

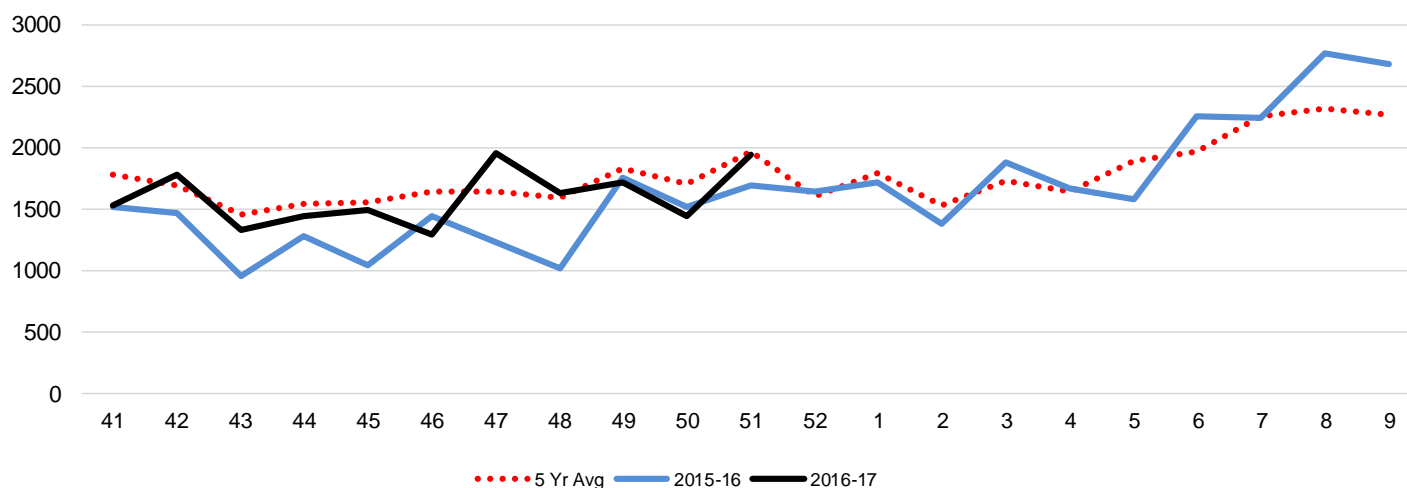
#### 3-C Vancouver Unloads (This Year vs. Last Year and the 5-Year Average)



### 3-D Prince Rupert Unloads (This Year vs. Last Year and the 5-Year Average)



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

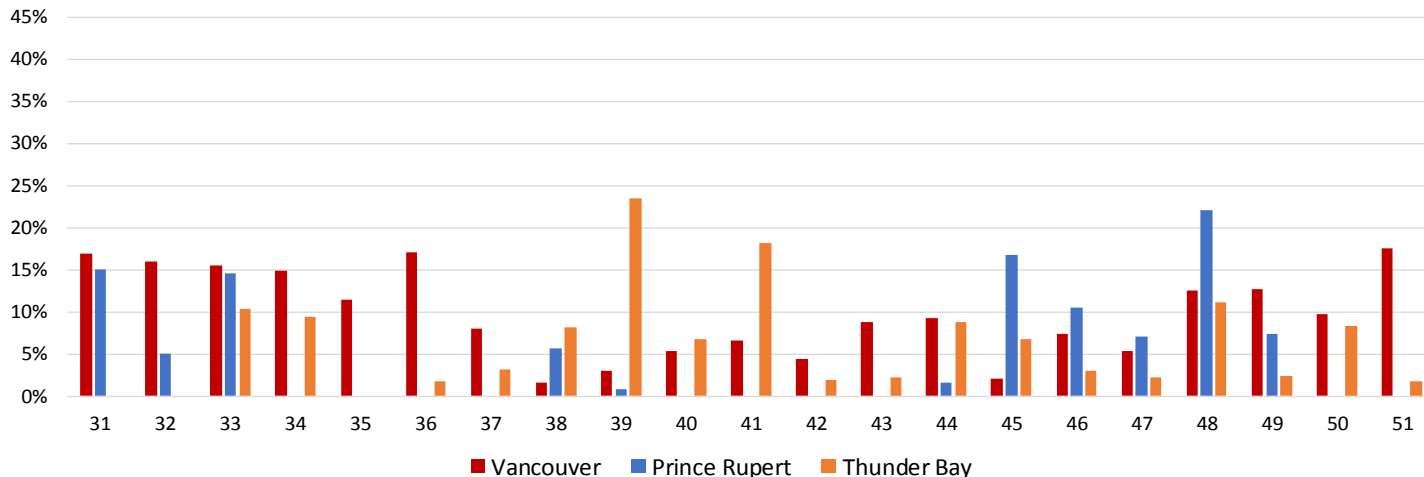


### 3-F Monthly Unloads (Cars) – (This year vs. Last Year and the 5-Year Average) to Week 48

Months	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Weeks	1-5	6-9	10-13	14-18	19-22	23-26	27-30	31-35	36-39	40-44	45-48	49-52
5 Yr Avg	32,465	32,466	33,880	40,806	26,709	23,919	22,985	32,447	31,653	36,036	26,863	24,477
2015-16	37,765	33,292	34,306	35,561	38,868	26,000	25,420	35,353	32,578	27,367	29,742	24,136
2016-17	31,197	33,447	36,002	44,476	28,797	28,771	26,824	37,054	36,788	39,110	29,666	
Var % to Last Year	-17%	0%	5%	25%	-26%	11%	6%	5%	13%	43%	0%	
Var % to 5 Yr Avg	-4%	3%	6%	9%	8%	20%	17%	14%	16%	9%	10%	

### 3-G Weekly Out of Car Time – (% of hours out of cars/total hours working) – by Port to Week 51

Out of car time is measured weekly and uses data reported by terminal elevators on the total number of hours the facilities are open and 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).

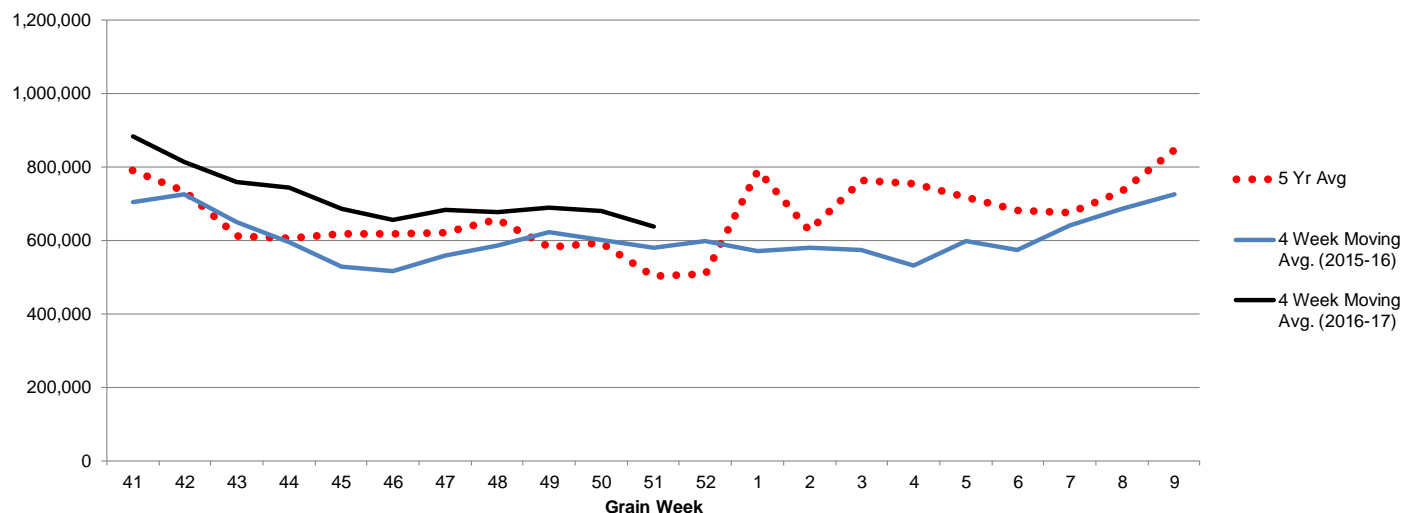


## 4. Shipments

### 4-A Shipments from Port Terminals (Tonnes) – This Year as of Week 51 and Variance to Last Year

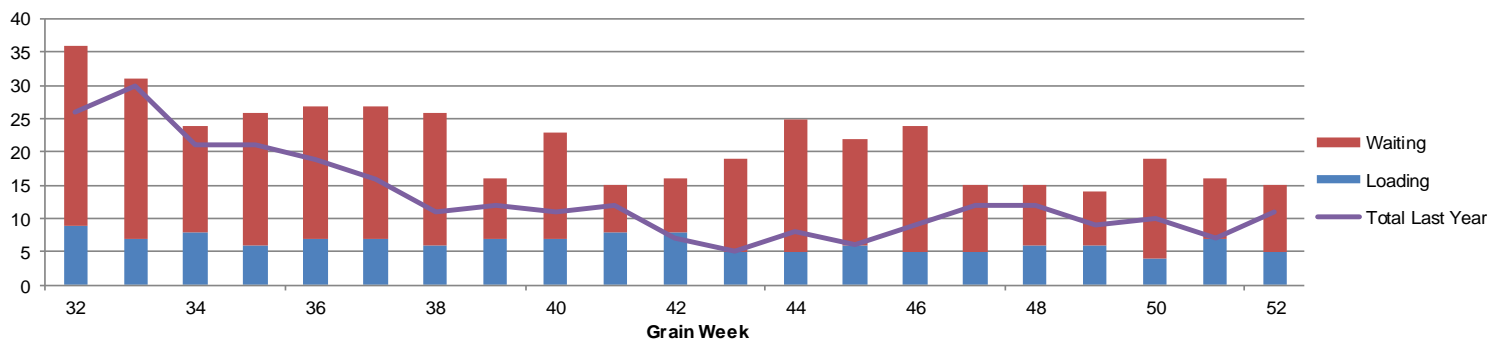
	<u>Vancouver</u>	<u>Prince Rupert</u>	<u>West Coast</u>	<u>Thunder Bay</u>	<u>Churchill</u>	<u>Total</u>
5 Year Avg	19,860,283	5,794,088	25,654,371	7,371,073	388,242	33,413,686
2015-16	20,854,448	6,007,295	26,861,743	7,186,151	187,849	34,235,743
2016-17	21,733,867	5,596,482	27,330,349	7,728,775	-	35,059,124
Var % to 5 Year Avg	9%	-3%	7%	5%	-100%	5%
Var % to Last Year	4%	-7%	2%	8%	-100%	2%

### 4-B Weekly Shipments (tonnes) from Port Terminals (This year 4-week moving avg vs. last year and the 5-year average)



## 5. Vessel Lineups

### 5-A Vessel lineup at Vancouver (Count of Vessels) – As of Week 52 2016-17 (Waiting and Loading)

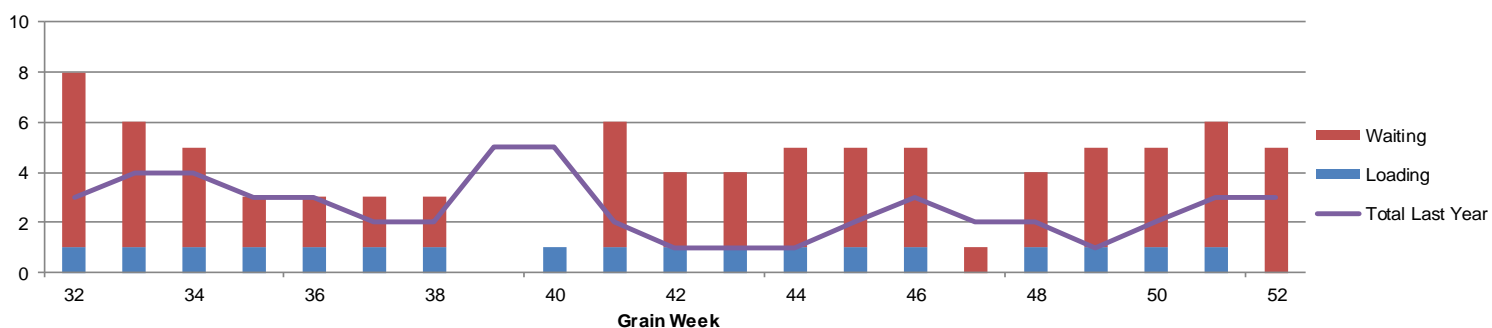


Prior to the 2013-14 crop year the normal vessel count at Vancouver was 8-12. The current one-year average at Vancouver is 22 vessels.

### 5-B Vessels Cleared at Vancouver (Count of Vessels) by week up to Week 52 2016-17

Week	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
	11	11	11	12	10	7	13	15	14	13	9	10	10	7	8	10	10	8	4	11	6

### 5-C Vessel lineup at Prince Rupert (Count of Vessels) – As of Week 52 2016-17 (Waiting and Loading)



Prior to the 2013-14 crop year the normal vessel count at Prince Rupert was 2-3. The current one-year average at Prince Rupert is 4 vessels.

### 5-D Vessels Cleared at Prince Rupert (Count of Vessels) by week up to Week 52 2016-17

Week	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
	2	3	4	3	3	3	3	2	2	3	2	1	2	2	2	3	1	2	2	1	2

Except where noted, the source of data for this report is from the Grain Monitoring Data Warehouse which collects data from many stakeholders in the grain industry including the CGC, grain companies, railways and various port stakeholders. This report strives to provide the most current data available at the time of publishing. Certain measures, such as vessel lineup are presented for Week 52 of 2016-17 CY.

As always, feel free to contact us with any questions or comments:

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