Railroad: Union Pacific	Year: 2016	Reporting Week:	Date Week Began: Date Week Ended:	10/8/2016 10/14/2016
1. System-Average Train Speed Reporting Week				
Intermodal	32.0	Methodology: AAR train speed measure. Calculated by		re. Calculated by dividing train-miles by tota
Grain unit	23.8		hours from origin to des	stination, less intermediate terminal time.
Coal unit	26.1			train categories: yard, local, passenger,
Automotive unit	26.5		foreign, and maintenand	
Crude oil unit	25.2			-
Ethanol unit	22.5			241814
Manifest	23.4			241814
All Other	20.2			ENTERED
2. Weekly Average Terminal Dw Hours Excluding Cars on Ru				Office of Proceedings October 19, 2016 Part of
2. Weekly Average Terminal Dw Hours Excluding Cars on Ru System Average				Office of Proceedings October 19, 2016
Hours Excluding Cars on Ru System Average 2. Weekly Average Terminal Dw Hours for 10 Largest Terminals Capacity	27.1 27.1 vell Time Measured in s In Terms Of Railcar			Office of Proceedings October 19, 2016 Part of Public Record
Hours Excluding Cars on Ru System Average 2. Weekly Average Terminal Dw Hours for 10 Largest Terminals Capacity 1 Chicago (Proviso), IL	27.1 27.1 vell Time Measured in s In Terms Of Railcar 28.6	Methodology:		Office of Proceedings October 19, 2016 Part of Public Record
Hours Excluding Cars on Ru System Average 2. Weekly Average Terminal Dw Hours for 10 Largest Terminals Capacity 1 Chicago (Proviso), IL 2 Fort Worth, TX	27.1 27.1 Vell Time Measured in s In Terms Of Railcar 28.6 33.3	Methodology:	specified terminal location	Office of Proceedings October 19, 2016 Part of Public Record
Hours Excluding Cars on Ru System Average 2. Weekly Average Terminal Dw Hours for 10 Largest Terminals Capacity 1 Chicago (Proviso), IL 2 Fort Worth, TX 3 Houston (Englewood), TX	27.1 27.1 vell Time Measured in s In Terms Of Railcar 28.6 33.3 31.6	Methodology:	specified terminal locati release, or interchange	Office of Proceedings October 19, 2016 Part of Public Record sure. Average hours a car resides at the ion. Begins with train arrival, customer receipt. Ends with train departure, custome
Hours Excluding Cars on Ru System Average 2. Weekly Average Terminal Dw Hours for 10 Largest Terminals Capacity Chicago (Proviso), IL Chicago (Proviso), IL Fort Worth, TX Houston (Englewood), TX Livonia, LA	27.1 27.1 vell Time Measured in s In Terms Of Railcar 28.6 33.3 31.6 30.9	Methodology:	specified terminal locati release, or interchange placement (actual or co	Office of Proceedings October 19, 2016 Part of Public Record sure. Average hours a car resides at the ion. Begins with train arrival, customer receipt. Ends with train departure, custome nstructive), interchange offering or delivery.
Hours Excluding Cars on Ru System Average 2. Weekly Average Terminal Dw Hours for 10 Largest Terminals Capacity Chicago (Proviso), IL Port Worth, TX Houston (Englewood), TX Livonia, LA North Little Rock, AR	27.1 27.1 Vell Time Measured in s In Terms Of Railcar 28.6 33.3 31.6 30.9 26.2	Methodology:	specified terminal locati release, or interchange placement (actual or co Excludes cars that move	Office of Proceedings October 19, 2016 Part of Public Record sure. Average hours a car resides at the ion. Begins with train arrival, customer receipt. Ends with train departure, custome nstructive), interchange offering or delivery. e through a terminal on run-through trains.
Hours Excluding Cars on Ru System Average 2. Weekly Average Terminal Dw Hours for 10 Largest Terminals Chicago (Proviso), IL 2. Fort Worth, TX 3. Houston (Englewood), TX 4. Livonia, LA 5. North Little Rock, AR 6. North Platte East, NE	27.1 vell Time Measured in s In Terms Of Railcar 28.6 33.3 31.6 30.9 26.2 29.2	Methodology:	specified terminal locati release, or interchange placement (actual or co Excludes cars that move Also excludes stored ca	Office of Proceedings October 19, 2016 Part of Public Record sure. Average hours a car resides at the ion. Begins with train arrival, customer receipt. Ends with train departure, custome nstructive), interchange offering or delivery. e through a terminal on run-through trains.
Hours Excluding Cars on Ru System Average 2. Weekly Average Terminal Dw Hours for 10 Largest Terminals Chicago (Proviso), IL 2. Fort Worth, TX 3 Houston (Englewood), TX Livonia, LA 5 North Little Rock, AR 5 North Platte East, NE 7 North Platte West, NE	27.1 vell Time Measured in s In Terms Of Railcar 28.6 33.3 31.6 30.9 26.2 29.2 29.9	Methodology:	specified terminal locati release, or interchange placement (actual or co Excludes cars that move	Office of Proceedings October 19, 2016 Part of Public Record sure. Average hours a car resides at the ion. Begins with train arrival, customer receipt. Ends with train departure, custome nstructive), interchange offering or delivery. e through a terminal on run-through trains.
Hours Excluding Cars on Ru System Average 2. Weekly Average Terminal Dw Hours for 10 Largest Terminals Capacity	27.1 vell Time Measured in s In Terms Of Railcar 28.6 33.3 31.6 30.9 26.2 29.2	Methodology:	specified terminal locati release, or interchange placement (actual or co Excludes cars that move Also excludes stored ca	Office of Proceedings October 19, 2016 Part of Public Record sure. Average hours a car resides at the ion. Begins with train arrival, customer receipt. Ends with train departure, customer nstructive), interchange offering or delivery.

			Date Week Began:	10/8/2016			
Railroad: Union Pacific	Year: 2016	Reporting Week:	Date Week Ended:	10/14/2016			
3. Total Cars On Line by Ca Wee				<u> </u>			
Box	22,762	Methodology:	AAR cars on line meas	sure. Calculated by AAR using Railinc data. Average daily inventory of all freight cars in reve	nue flee		
Covered hopper	107,450		regardless of location of	or status. Includes cars located on shortline railroads, cars delivered to customer facilities a	nd store		
Gondola	11,075		cars. Excludes mainter	nance of way cars. Articulated cars are counted as a single unit.			
Intermodal	14,440						
Multilevel (automotive)	13,081						
Open hopper	40,845						
Tank	67,742						
Other	14,486						
Total	291,881						
4. Weekly Average Dwe	II Time at Origin for Unit						
Train Shipments Me	easured in Hours						
Grain	15.7	Methodology:		om customer release to train departure. Release time is based on the last cut of five or more of			
Coal	4.4		Includes trains transporting both loaded and empty freight cars. Excludes trains received in interchange from a				
Automotive	14.5		railroad and intermodal trains.				
Crude Oil	11.4						

	5. Weekly Total Number of Trains Held Short of Destination or Scheduled Interchange for Longer than 6 Hours by Train Type and Cause						
	Cause						
Train Type	Crow	Locomotive power	Track maintenance	Mechanical Issue		Other	
Crew	Crew	Locomotive power	Track maintenance	wechanical issue	Number	Briefly Explain Cause	Total
Intermodal	1	0	1	0	4	-	6
Grain unit	3	2	2	0	17		24
Coal unit	3	1	0	1	18	1	23
Automotive unit	1	0	2	0	0	Customer, Foreign Road, Incidents/Weather, Other	3
Crude oil unit	0	0	2	0	1		3
Ethanol unit	0	0	2	0	1		3
Other unit	1	2	2	0	12		17
All other trains	0	3	4	0	10	1	17
Total	9	8	15	1	63		96

Methodology:

Ethanol

All Other Unit Trains

Cumulative weekly number, based on daily snapshots of active trains held for more than six consecutive hours. No train is counted more than once each week. Excludes yard and local trains.

6. Weekly Total Number of Loaded and Empty Cars in Revenue Service That Have Not Moved In:					
	Greater Tha	n 120 Hours	Greater Than 48 but Less than or Equal to 120 Hours		
	Loaded	Empty	Loaded	Empty	
Intermodal	13	12	531	65	
Grain	24	84	794	368	
Coal	136	324	526	696	
Crude Oil	0	7	5	30	
Ethanol	9	24	184	199	
Automotive	16	98	589	655	
All Other	1,186	1,585	8,101	6,993	

35.1

15.6

Methodology: Cumulative weekly number, based on daily snapshots of freight cars in revenue service that have not moved for 48+ hours. Begins with pull from customer facility or interchange receipt, and ends with car placement at customer facility or interchange delivery. Excludes cars in hold status (constructively placed, stored, bad order, offered in interchange, etc.). Excludes empty cars not billed to a specific consignee, non-revenue car movements, and cars billed to Union Pacific Railroad. Excludes cars with no events reported during the past 28 days. Articulated cars are counted as a single unit. No car is counted more than once each week per car cycle.

Railroad: Union Pacific	Year: 2016	Deperting Wooks	Date Week Began:	10/8/2016
Railroad: Union Pacific	fear: 2016	Reporting Week:	Date Week Ended:	10/14/2016
01136 (sorghum grains), 0113 billed" includes cars in shuttl in shuttle service (or dedicate	oaded and billed, reported by State, aggregated for the folk 7 (wheat), 01139 (grain, not elsewhere classified), 01144 (so e service; dedicated train service; reservation, lottery, open ed train service) versus total cars loaded and billed in all oth f no data is being reported for a field.	oybeans), 01341 (beans, dry), 01342 (peas, dry), and 01343 and other ordering systems; and, private cars. Additiona	(cowpeas, lentils, or lupines). "Total grain cars loaded and	
State	Total Grain Cars Loaded and Billed For All Ordering Systems	Total Grain Cars Loaded and Billed For Shuttle / Dedicated Train Service Ordering Systems	Total Grain Cars Loaded and Billed For Ordering Systems Other Than Shuttle / Dedicated Train Service	
AZ	24	0	24	
AR	2	0	2	
CA	67	0	67	
CO	225	3	222	
ID	1,695	886	809	
IL	317	75	242	
IA	677	536	141	
KS	1,530	1,077	453	
LA	1	0	1	
MN	386	206	180	
MO	567	404	163	
MT	17	0	17	
NE	3,561	2,931	630	
NV	0	0	0	
NM	0	0	0	
OK	52	0	52	
OR	2	0	2	
TN	0	0	0	
ТХ	320	110	210	
UT	7	0	7	
WA	10	0	10	
WI	31	0	31	
WY	5	0	5	
Total	9,496	6,228	3,268	
	-,	-, -	-,	

Methodology:

Number of grain cars loaded and billed each week by state and type of train service. A carload is counted when the loaded car is released by UP's customer or received in interchange from another railroad. State is based on UP origin. Shuttle / dedicated train service includes cars moving on grain shuttle trains. Other than shuttle / dedicated train service includes all other cars moving on unit grain trains or manifest service.

Railroad: Union Pacific	Year: 2016		Date Week Began:	10/8/2016
Kalifoad. Onion Facilic	Year: 2016	Reporting week:	Date Week Ended:	10/14/2016

8. For the aggregated STCCs in item 7, report by State the following: a. running total number of outstanding car orders (a car order equals one car); b. average number of days late for all outstanding car orders; c. total number of new car orders received during the past week; d. total number of car orders filled during the past week; and e. number of orders cancelled, respectively, by shipper and railroad during the past week.

State	a. Running Total Number of Outstanding Car Orders	b. Average Number of Days Late For All Outstanding Grain Car Orders	c. Number of New Car Orders	d. Number of Car Orders Filled	e.1. Number of Orders Canceled By Shipper	e.2. Number of Orders Canceled By Railroad
AZ	39	0	0	38	0	0
AR	6	0	0	7	0	0
CA	31	0	1	37	0	0
CO	11	0	10	3	0	0
ID	76	0	81	74	0	0
IL	2	0	0	111	0	0
IA	13	2	0	110	0	0
KS	988	1	290	359	0	0
LA	0	0	0	0	0	0
MN	18	0	6	26	0	0
MO	14	0	24	131	0	0
MT	47	0	8	17	0	0
NE	874	0	437	320	0	0
NV	0	0	0	0	0	0
NM	0	0	0	0	0	0
OK	393	1	220	130	0	0
OR	10	0	0	1	0	0
TN	0	0	0	0	0	0
ТХ	183	4	0	44	0	0
UT	4	0	0	1	0	0
WA	19	0	0	3	0	0
WI	461	0	13	12	0	0
WY	5	0	0	5	0	0
TOTAL	3,194	0	1,090	1,429	0	0

Methodology:

Per the tariff, Union Pacific accepts grain orders for half-month periods. <u>Outstanding orders</u> include unfilled guaranteed orders from prior half-month periods plus all unfilled guaranteed orders for the current half. <u>Average number of days late for outstanding orders</u>: For any outstanding orders from prior half-month periods, we calculate the number of days past the end of the half that the cars were ordered for. <u>New car orders</u> are requests received during the reporting period for the next half-month period and beyond. <u>Car orders filled</u> are the number of empty cars delivered to customers for loading during the reporting period. For offline customers, orders are filled when cars are delivered or offered in interchange to the connecting carrier. The data in columns a and b is calculated from a snapshot of outstanding car orders taken every Monday. The data in columns c, d, and e is based on a reporting period that spans Sunday through Saturday. This metric excludes cars in UP's shuttle train program because those cars are controlled by the shuttle operator.

Railroad: Union Pacific	Year: 2016 Reporting Week:		Date Week Began:	10/8/2016	
		Reporting Week.	Date Week Ended:	10/14/2016	
	or Grain Shuttle (Or Dedicated lated To Reflect The Previous		э, Ву		
(Please Specify		ormance our Weeks			
AR/TX		4.1	—		
CA/AZ		3.0			
Gulf	3.2				
Mexico	2.3				
PNW	5.4				
Other Domestic		4.8			

Methodology:

Average trips per shuttle set per month = 720 hours per month / (Average loaded cycle hours + Average empty cycle hours). A loaded cycle is measured from loaded release to empty release. An empty cycle is measured from empty release to loaded release. The average cycle times are calculated for all cycles that closed during the 4-week reporting period. Measure includes routine inspection and preventative maintenance.

10. Average Daily Coal Unit Train Loadings vs. Plan for the Reporting Week By Coal Production Region					
Region	Loadings Average Current Week				
Powder River Basin	17.7				
Illinois Basin 0.3					
Uinta Basin	Jinta Basin 4.4				

Methodology: Average daily count of loaded coal trains released by the mines.