Railroad: Union Pacific	Year: 2016	Reporting Week:	Date Week Began: Date Week Ended:	10/15/2016 10/21/2016
1. System-Average Train Speed Reporting Week			Date Week Ended.	10/21/2010
Intermodal	32.1	Methodology: AAR train speed measure. Calculated by dividing train-		re. Calculated by dividing train-miles by tota
Grain unit	22.8		hours from origin to des	stination, less intermediate terminal time.
Coal unit	26.8		-	train categories: yard, local, passenger,
Automotive unit	26.7		foreign, and maintenand	
Crude oil unit	23.0			-
Ethanol unit	22.9			
Manifest	23.6			241891
All Other	20.6			
2. Weekly Average Terminal Dv Hours Excluding Cars on R				ENTERED Office of Proceedings October 26, 2016 Part of Public Record
				Office of Proceedings October 26, 2016 Part of
Hours Excluding Cars on Re System Average 2. Weekly Average Terminal Dv Hours for 10 Largest Terminal Capacity 1 Chicago (Proviso), IL 2 Fort Worth, TX	un Through Trains 26.6 well Time Measured in Is In Terms Of Railcar	Methodology:	specified terminal location	Office of Proceedings October 26, 2016 Part of Public Record
Hours Excluding Cars on Re System Average 2. Weekly Average Terminal De Hours for 10 Largest Terminal Capacity 1 Chicago (Proviso), IL 2 Fort Worth, TX 3 Houston (Englewood), TX 4 Livonia, LA	un Through Trains 26.6 well Time Measured in Is In Terms Of Railcar 31.0 29.2	Methodology:	specified terminal locati release, or interchange	Office of Proceedings October 26, 2016 Part of Public Record
Hours Excluding Cars on Re System Average 2. Weekly Average Terminal De Hours for 10 Largest Terminal Capacity 1 Chicago (Proviso), IL 2 Fort Worth, TX 3 Houston (Englewood), TX 4 Livonia, LA 5 North Little Rock, AR	un Through Trains 26.6 well Time Measured in Is In Terms Of Railcar 31.0 29.2 28.6 29.3 25.5	Methodology:	specified terminal locati release, or interchange placement (actual or co	Office of Proceedings October 26, 2016 Part of Public Record asure. 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 Re System Average 2. Weekly Average Terminal De Hours for 10 Largest Terminal Capacity 1 Chicago (Proviso), IL 2 Fort Worth, TX 3 Houston (Englewood), TX 4 Livonia, LA 5 North Little Rock, AR 5 North Platte East, NE	un Through Trains 26.6 well Time Measured in Is In Terms Of Railcar 31.0 29.2 28.6 29.3 25.5 27.3	Methodology:	specified terminal locati release, or interchange placement (actual or co Excludes cars that move	Office of Proceedings October 26, 2016 Part of Public Record asure. 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 Residual System Average 2. Weekly Average Terminal Definition 2. Weekly Average Terminal Definition Hours for 10 Largest Terminal Capacity 1 Chicago (Proviso), IL 2 Fort Worth, TX 3 Houston (Englewood), TX 4 Livonia, LA 5 North Little Rock, AR 6 North Platte East, NE 7 North Platte West, NE	un Through Trains 26.6 well Time Measured in Is In Terms Of Railcar 31.0 29.2 28.6 29.3 25.5 27.3 28.5	Methodology:	specified terminal locati release, or interchange placement (actual or co Excludes cars that move	Office of Proceedings October 26, 2016 Part of Public Record asure. 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 Reserve System Average 2. Weekly Average Terminal Dweekly Average Term	un Through Trains 26.6 well Time Measured in Is In Terms Of Railcar 31.0 29.2 28.6 29.3 25.5 27.3	Methodology:	specified terminal locati release, or interchange placement (actual or co Excludes cars that move Also excludes stored ca	Office of Proceedings October 26, 2016 Part of Public Record asure. 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 Re System Average 2. Weekly Average Terminal Dw Hours for 10 Largest Terminal Capacity	un Through Trains 26.6 well Time Measured in Is In Terms Of Railcar 31.0 29.2 28.6 29.3 25.5 27.3 28.5	Methodology:	specified terminal locati release, or interchange placement (actual or co Excludes cars that move Also excludes stored ca	Office of Proceedings October 26, 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

	¥ 0040	5 <i>//</i> 14	Date Week Began:	10/15/2016			
Railroad: Union Pacific	Year: 2016	Reporting Week:	Date Week Ended:	10/21/2016			
3. Total Cars On Line by Car	r Type for the Reporting		•	·			
Week	ĸ						
Box	22,688	Methodology:	AAR cars on line meas	ure. Calculated by AAR using Railinc data. Average daily inventory of all freight cars in revenue fleet			
Covered hopper	107,191		regardless of location or status. Includes cars located on shortline railroads, cars delivered to customer facilities				
Gondola	10,846		cars. Excludes mainte	nance of way cars. Articulated cars are counted as a single unit.			
Intermodal	14,141						
Multilevel (automotive)	12,524						
Open hopper	40,547						
Tank	66,990						
Other	14,256						
Total	289,183						
4. Weekly Average Dwell	Time at Origin for Unit						
Train Shipments Mea	asured in Hours						
Grain	16.0	Methodology:	Measured at origin, fro	m customer release to train departure. Release time is based on the last cut of five or more cars.			
Coal	5.0		Includes trains transpo	prting both loaded and empty freight cars. Excludes trains received in interchange from another			
Automotive	16.4		railroad and intermoda	I trains.			
Crude Oil	13.5						
Ethanol	23.2						

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	Crew	Locomotive power	Track maintenance	Mechanical Issue		Other	Total
	Crew	Locomotive power	Track maintenance	wechanical issue	Number	Briefly Explain Cause	Total
Intermodal	2	0	1	0	2		5
Grain unit	4	0	0	0	30	Customer, Foreign Road, Incidents/Weather, Other	34
Coal unit	5	2	0	1	17		25
Automotive unit	1	2	1	0	7		11
Crude oil unit	1	0	0	0	0		1
Ethanol unit	1	0	0	0	1	Incidents/weather, Other	2
Other unit	2	0	0	0	11		13
All other trains	6	3	0	0	10		19
Total	22	7	2	1	78		110

Methodology:

All Other Unit Trains

13.5

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.

	Greater Than	120 Hours	Greater Than 48 but Less than or Equal to 120 Hours		
	Loaded	Empty	Loaded	Empty	
Intermodal	44	20	424	53	
Grain	23	79	645	439	
Coal	219	205	647	371	
Crude Oil	0	20	4	48	
Ethanol	7	15	139	197	
Automotive	38	88	769	650	
All Other	1,573	1,933	8,101	7,161	

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	Reporting Week:	Date Week Began:	10/15/2016
Kalifoad. Officin't actife	1 6 41. 2010	Reporting week.	Date Week Ended:	10/21/2016

7. Weekly total grain cars loaded and billed, reported by State, aggregated for the following Standard Transportation Commodity Codes (STCCs): 01131 (barley), 01132 (corn), 01133 (oats), 01135 (rye), 01136 (sorghum grains), 01137 (wheat), 01139 (grain, not elsewhere classified), 01144 (soybeans), 01341 (beans, dry), 01342 (peas, dry), and 01343 (cowpeas, lentils, or lupines). "Total grain cars loaded and billed" includes cars in shuttle service; dedicated train service; reservation, lottery, open and other ordering systems; and, private cars. Additionally, please separately report the total cars loaded and billed in shuttle service (or dedicated train service) versus total cars loaded and billed in all other ordering systems, including private cars.

Instruction: Please enter "0" if no data is being reported for a field.

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	25	0	25
AR	0	0	0
CA	50	0	50
СО	397	210	187
ID	1,704	843	861
IL	331	295	36
IA	749	649	100
KS	2,644	1,588	1,056
LA	0	0	0
MN	614	219	395
MO	368	322	46
MT	43	0	43
NE	2,149	1,714	435
NV	0	0	0
NM	0	0	0
OK	222	105	117
OR	1	0	1
TN	0	0	0
TX	0	0	0
UT	6	0	6
WA	10	0	10
WI	124	108	16
WY	6	0	6
Total	9,443	6,053	3,390

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	Reporting Week:	Date Week Began:	10/15/2016
Kalifoad. Officit Facilic	Teal: 2010	Reporting week.	Date Week Ended:	10/21/2016

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	16	0	0	40	0	0
AR	3	0	0	8	0	0
CA	6	0	15	26	0	0
CO	1	0	0	42	0	0
ID	28	0	61	79	0	0
IL	0	0	0	2	0	0
IA	10	9	0	3	0	0
KS	587	2	147	414	0	0
LA	0	0	0	0	0	0
MN	2	0	20	34	0	0
MO	10	0	100	37	0	0
MT	5	0	0	53	0	0
NE	604	2	14	371	0	0
NV	0	0	0	0	0	0
NM	0	0	0	0	0	0
OK	379	3	0	4	0	0
OR	9	0	8	1	0	0
TN	0	0	0	0	0	0
тх	186	4	0	9	0	0
UT	0	0	0	7	0	0
WA	2	0	15	18	0	0
WI	398	1	0	19	0	0
WY	0	0	10	5	0	0
TOTAL	2,246	2	390	1,172	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 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: Date Week Ended:	10/15/2016 10/21/2016
9. Plan vs. Performance	For Grain Shuttle (Or Dedicate	d Grain Train) Round Trips		10/21/2010
	odated To Reflect The Previous		, _ ,	
Region (Please Specify Destination Region)		Trip Performance Previous Four Weeks		
AR/TX		4.2		
CA/AZ		3.0		
Gulf		3.3		
Mexico	2.2			
PNW		5.2		
Other Domestic		5.2		

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 tc 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 0.1			
Uinta Basin	4.4		

Methodology:

Average daily count of loaded coal trains released by the mines