Railroad: Union Pacific	Year: 2016	Reporting Week:	Date Week Began:	8/20/2016	
Railfoad: Union Pacific	fear: 2016	Reporting week:	Date Week Ended:	8/26/2016	
1. System-Average Train Spee Reporting Week					
Intermodal	31.2	Methodology:	logy: AAR train speed measure. Calculated by dividing train-miles		
Grain unit	23.2		hours from origin to dea	stination, less intermediate terminal time.	
Coal unit	26.0		Excludes the following	train categories: yard, local, passenger,	
Automotive unit	25.6		foreign, and maintenand	ce of way.	
Crude oil unit	24.4		-	-	
Ethanol unit	21.8]			
Manifest	23.0]			
All Other	20.2			044444	
Hours Excluding Cars on R	well Time Measured in un Through Trains			241411 ENTERED Office of Proceedings August 31, 2016 Part of	
2. Weekly Average Terminal De Hours Excluding Cars on R System Average	well Time Measured in			ENTERED Office of Proceedings August 31, 2016	
Hours Excluding Cars on R System Average 2. Weekly Average Terminal D Hours for 10 Largest Terminal Capacity	well Time Measured in un Through Trains 27.3 well Time Measured in Is In Terms Of Railcar] 		ENTERED Office of Proceedings August 31, 2016 Part of	
Hours Excluding Cars on R System Average 2. Weekly Average Terminal Du Hours for 10 Largest Terminal Capacity 1 Chicago (Proviso), IL	well Time Measured in oun Through Trains 27.3 well Time Measured in Is In Terms Of Railcar 29.1] 		ENTERED Office of Proceedings August 31, 2016 Part of Public Record	
Hours Excluding Cars on R System Average 2. Weekly Average Terminal De Hours for 10 Largest Terminal Capacity 1 Chicago (Proviso), IL 2 Fort Worth, TX	well Time Measured in 27.3 well Time Measured in Is In Terms Of Railcar 29.1 28.2		specified terminal locat	ENTERED Office of Proceedings August 31, 2016 Part of Public Record	
Hours Excluding Cars on R System Average 2. Weekly Average Terminal Hours for 10 Largest Terminal Capacity 1 Chicago (Proviso), IL 2 Fort Worth, TX 3 Houston (Englewood), TX	well Time Measured in 27.3 Well Time Measured in Is In Terms Of Railcar 29.1 28.2 33.6		specified terminal locati release, or interchange	ENTERED Office of Proceedings August 31, 2016 Part of Public Record	
Hours Excluding Cars on R System Average 2. Weekly Average Terminal De Hours for 10 Largest Terminal Capacity Chicago (Proviso), IL 2 Fort Worth, TX 3 Houston (Englewood), TX 4 Livonia, LA	well Time Measured in 27.3 well Time Measured in Is In Terms Of Railcar 29.1 28.2 33.6 32.9		specified terminal locat release, or interchange placement (actual or co	ENTERED Office of Proceedings August 31, 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.	
Hours Excluding Cars on R System Average 2. Weekly Average Terminal De Hours for 10 Largest Terminal Capacity Chicago (Proviso), IL 2 Fort Worth, TX 3 Houston (Englewood), TX 4 Livonia, LA 5 North Little Rock, AR	well Time Measured in 27.3 Well Time Measured in Is In Terms Of Railcar 29.1 28.2 33.6 32.9 25.5		specified terminal locat release, or interchange placement (actual or co Excludes cars that mov	ENTERED Office of Proceedings August 31, 2016 Part of Public Record asure. Average hours a car resides at the ion. Begins with train arrival, customer receipt. Ends with train departure, customer nstructive), interchange offering or delivery. e through a terminal on run-through trains.	
Hours Excluding Cars on R System Average 2. Weekly Average Terminal De Hours for 10 Largest Terminal Capacity Chicago (Proviso), IL 2 Fort Worth, TX 3 Houston (Englewood), TX 4 Livonia, LA 5 North Little Rock, AR 6 North Platte East, NE	well Time Measured in 27.3 Well Time Measured in Is In Terms Of Railcar 29.1 28.2 33.6 32.9 25.5 28.7		specified terminal locat release, or interchange placement (actual or co Excludes cars that mov Also excludes stored ca	ENTERED Office of Proceedings August 31, 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.	
Hours Excluding Cars on R 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 7 North Platte West, NE	well Time Measured in 27.3 Well Time Measured in Is In Terms Of Railcar 29.1 28.2 33.6 32.9 25.5 28.7 32.4		specified terminal locat release, or interchange placement (actual or co Excludes cars that mov	ENTERED Office of Proceedings August 31, 2016 Part of Public Record asure. Average hours a car resides at the ion. Begins with train arrival, customer receipt. Ends with train departure, customer nstructive), interchange offering or delivery. e through a terminal on run-through trains.	
Hours Excluding Cars on R System Average 2. Weekly Average Terminal D Hours for 10 Largest Terminal Capacity	well Time Measured in 27.3 Well Time Measured in Is In Terms Of Railcar 29.1 28.2 33.6 32.9 25.5 28.7		specified terminal locat release, or interchange placement (actual or co Excludes cars that mov Also excludes stored ca	ENTERED Office of Proceedings August 31, 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.	

	¥ 0040		Date Week Began:	8/20/2016			
Railroad: Union Pacific	Year: 2016	Reporting Week:	Date Week Ended:	8/26/2016			
3. Total Cars On Line by Car	Type for the Reporting						
Week	(
Box	23,212	Methodology:	AAR cars on line measu	ure. Calculated by AAR using Railinc data. Average daily inventory of all freight cars in revenue fleet			
Covered hopper	105,590		regardless of location or status. Includes cars located on shortline railroads, cars delivered to customer faciliti				
Gondola	10,977		cars. Excludes mainter	nance of way cars. Articulated cars are counted as a single unit.			
Intermodal	14,510						
Multilevel (automotive)	12,831						
Open hopper	41,078						
Tank	67,927						
Other	13,920						
Total	290,045						
4. Weekly Average Dwell	Time at Origin for Unit						
Train Shipments Mea	asured in Hours						
Grain	16.8	Methodology:	Measured at origin, from	m customer release to train departure. Release time is based on the last cut of five or more cars.			
Coal	5.1		Includes trains transpo	orting both loaded and empty freight cars. Excludes trains received in interchange from another			
Automotive	14.2		railroad and intermodal	I trains.			
Crude Oil	14.4						
Ethanol	22.0						

	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		Track maintenance	Mechanical Issue		Other	Total	
Crew	Clew	Locomotive power	Track maintenance	Wechanical Issue	Number	Briefly Explain Cause	Total	
Intermodal	0	4	0	0	5		9	
Grain unit	0	4	0	0	17	Customer, Foreign Road, Incidents/Weather, Other	21	
Coal unit	5	3	1	0	33		42	
Automotive unit	0	0	0	0	0		0	
Crude oil unit	0	0	0	0	0		0	
Ethanol unit	1	1	0	0	3	incidents/weather, Other	5	
Other unit	3	2	1	0	11	1	17	
All other trains	5	8	5	0	19		37	
Total	14	22	7	0	88		131	

Methodology:

All Other Unit Trains

17.6

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 Thar	n 120 Hours	Greater Than 48 but Less than or Equal to 120 Hours		
	Loaded	Empty	Loaded	Empty	
Intermodal	141	8	530	61	
Grain	76	77	695	352	
Coal	146	62	895	677	
Crude Oil	9	18	6	45	
Ethanol	21	17	244	261	
Automotive	36	64	581	537	
All Other	1,228	1,755	8,307	7,870	

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:	8/20/2016
		Reporting week.	Date Week Ended:	8/26/2016

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	4	0	4
AR	0	0	0
CA	45	0	45
СО	198	107	91
ID	1,679	1,104	575
IL	320	295	25
IA	1,575	1,512	63
KS	1,337	976	361
LA	0	0	0
MN	545	421	124
MO	30	0	30
MT	18	0	18
NE	1,565	1,401	164
NV	5	0	5
NM	0	0	0
OK	38	0	38
OR	8	0	8
TN	0	0	0
TX	149	110	39
UT	5	0	5
WA	6	0	6
WI	3	0	3
WY	0	0	0
Total	7,530	5,926	1,604

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:	8/20/2016
Rainoad. Onion Facilic	Teal: 2010	Reporting week.	Date Week Ended:	8/26/2016

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	0	0	7	0	0	0
AR	0	0	0	0	0	0
CA	0	0	41	33	0	0
CO	11	0	6	4	0	0
ID	17	0	114	56	0	0
IL	0	0	2	8	0	0
IA	5	0	26	69	0	0
KS	619	5	1,142	241	0	0
LA	0	0	0	0	0	0
MN	3	0	20	34	0	0
MO	6	29	429	41	0	0
МТ	2	0	34	17	0	0
NE	522	0	350	185	0	0
NV	0	0	0	0	0	0
NM	0	0	0	0	0	0
OK	123	0	260	38	0	0
OR	1	0	0	6	0	0
TN	0	0	0	0	0	0
тх	75	0	8	3	0	0
UT	0	0	5	0	0	0
WA	0	0	0	0	0	0
WI	0	0	208	0	0	0
WY	0	0	0	0	0	0
TOTAL	1,384	2	2,652	735	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:	8/20/2016	
			Date Week Ended:	8/26/2016	
	or Grain Shuttle (Or Dedicate dated To Reflect The Previous		а, Ву		
Region (Please Specify Destination Region)	Trip Perf Previous F				
AR/TX		3.8	_		
CA/AZ		3.2			
Gulf		3.0			
Mexico		2.0			
PNW		6.2			
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	19.6			
Illinois Basin	0.4			
Uinta Basin	4.7			

Methodology:

Average daily count of loaded coal trains released by the mines