<u>EP</u>						
			Date Week Began:	12/24/2016		
Railroad: Union Pacific	Year: 2016	Reporting Week:	Date Week Ended:	12/30/2016		
1. System-Average Train Spee Reporting Wee						
Intermodal	33.7	Methodology:	AAR train speed measure	e. Calculated by dividing train-miles by total		
Grain unit	23.9		hours from origin to des	tination, less intermediate terminal time.		
Coal unit	27.2		•	rain categories: yard, local, passenger,		
Automotive unit	27.9		foreign, and maintenanc			
Crude oil unit	22.3			•		
Ethanol unit	24.7					
Manifest	24.0		242357			
All Other	22.7					
2. Weekly Average Terminal D Hours Excluding Cars on F			ENTERED ice of Proceedings January 4, 2017			
			ice of Proceedings			
Hours Excluding Cars on F System Average 2. Weekly Average Terminal D Hours for 10 Largest Termina Capacit	Run Through Trains 41.6 Well Time Measured in als In Terms Of Railcar Y		ice of Proceedings January 4, 2017 Part of Public Record			
Hours Excluding Cars on F System Average 2. Weekly Average Terminal D Hours for 10 Largest Termina Capacit 1 Chicago (Proviso), IL	Run Through Trains 41.6 Well Time Measured in als In Terms Of Railcar Y 50.8		ice of Proceedings January 4, 2017 Part of Public Record AAR terminal dwell meas	sure. Average hours a car resides at the		
Hours Excluding Cars on F System Average 2. Weekly Average Terminal D Hours for 10 Largest Termina Capacit 1 Chicago (Proviso), IL 2 Fort Worth, TX	Run Through Trains 41.6 Well Time Measured in als In Terms Of Railcar y 50.8 39.9		ice of Proceedings January 4, 2017 Part of Public Record AAR terminal dwell meas specified terminal locatio	on. Begins with train arrival, customer		
Hours Excluding Cars on F System Average 2. Weekly Average Terminal D Hours for 10 Largest Termina Capacit 1 Chicago (Proviso), IL 2 Fort Worth, TX 3 Houston (Englewood), TX	Run Through Trains 41.6 Well Time Measured in als In Terms Of Railcar y 50.8 39.9 49.2		ice of Proceedings January 4, 2017 Part of Public Record AAR terminal dwell meas specified terminal locatio release, or interchange r	on. Begins with train arrival, customer eceipt. Ends with train departure, customer		
Hours Excluding Cars on F System Average 2. Weekly Average Terminal D Hours for 10 Largest Termina Capacit 1 Chicago (Proviso), IL 2 Fort Worth, TX 3 Houston (Englewood), TX 4 Livonia, LA	Run Through Trains 41.6 Well Time Measured in als In Terms Of Railcar y 50.8 39.9 49.2 47.2		ice of Proceedings January 4, 2017 Part of Public Record AAR terminal dwell meas specified terminal locatio release, or interchange r placement (actual or con	on. Begins with train arrival, customer eceipt. Ends with train departure, customer structive), interchange offering or delivery.		
Hours Excluding Cars on F System Average 2. Weekly Average Terminal D Hours for 10 Largest Termina Capacit 1 Chicago (Proviso), IL 2 Fort Worth, TX 3 Houston (Englewood), TX 4 Livonia, LA 5 North Little Rock, AR	Aun Through Trains 41.6 Well Time Measured in als In Terms Of Railcar y 50.8 39.9 49.2 47.2 49.7		ice of Proceedings January 4, 2017 Part of Public Record AAR terminal dwell meas specified terminal locatio release, or interchange r placement (actual or con Excludes cars that move	on. Begins with train arrival, customer eceipt. Ends with train departure, customer structive), interchange offering or delivery. through a terminal on run-through trains.		
Hours Excluding Cars on F System Average 2. Weekly Average Terminal D Hours for 10 Largest Termina Capacit 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	Aun Through Trains41.6Owell Time Measured in als In Terms Of Railcar y50.839.949.247.249.749.1		ice of Proceedings January 4, 2017 Part of Public Record AAR terminal dwell meas specified terminal locatio release, or interchange r placement (actual or con Excludes cars that move Also excludes stored car	on. Begins with train arrival, customer eceipt. Ends with train departure, customer structive), interchange offering or delivery. through a terminal on run-through trains.		
Hours Excluding Cars on F System Average 2. Weekly Average Terminal D Hours for 10 Largest Termina Capacit 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	Run Through Trains 41.6 Well Time Measured in als In Terms Of Railcar y 50.8 39.9 49.2 47.2 49.7 49.1 50.1		ice of Proceedings January 4, 2017 Part of Public Record AAR terminal dwell meas specified terminal locatio release, or interchange r placement (actual or con Excludes cars that move	on. Begins with train arrival, customer eceipt. Ends with train departure, customer structive), interchange offering or delivery.		
Hours Excluding Cars on F System Average 2. Weekly Average Terminal D Hours for 10 Largest Termina Capacit 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	Aun Through Trains41.6Owell Time Measured in als In Terms Of Railcar y50.839.949.247.249.749.1		ice of Proceedings January 4, 2017 Part of Public Record AAR terminal dwell meas specified terminal locatio release, or interchange r placement (actual or con Excludes cars that move Also excludes stored car	on. Begins with train arrival, customer eceipt. Ends with train departure, customer structive), interchange offering or delivery. through a terminal on run-through trains.		

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Railroad: Union Pacific	Year: 2016	Reporting Week:	Date Week Ended:	12/30/2016		
3. Total Cars On Line by Ca Wee			-			
Box	22,900	Methodology:	AAR cars on line meas	sure. Calculated by AAR using Railinc data. Average daily inventory of all freight cars in revenue flee		
Covered hopper	110,608		regardless of location	or status. Includes cars located on shortline railroads, cars delivered to customer facilities and store		
Gondola	11,086		cars. Excludes mainte	nance of way cars. Articulated cars are counted as a single unit.		
Intermodal	14,232					
Multilevel (automotive)	12,842					
Open hopper	40,470					
Tank	69,074					
Other	13,886					
Total	295,098					
4. Weekly Average Dwel	I Time at Origin for Unit					
Train Shipments Me	easured in Hours					
Grain	29.3	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	7.4		Includes trains transpo	orting both loaded and empty freight cars. Excludes trains received in interchange from another		
Automotive	26.3		railroad and intermodal trains.			
Crude Oil	15.3					

	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
	Clew	Locomotive power	Track maintenance	wechanical issue	Number	Briefly Explain Cause	Iotai
Intermodal	46	2	0	20	0		68
Grain unit	38	3	1	18	1		61
Coal unit	31	3	2	31	0		67
Automotive unit	21	0	0	18	0	Customer Fereign Bood	39
Crude oil unit	5	1	0	3	0	Customer, Foreign Road, Incidents/Weather, Other	9
Ethanol unit	21	6	0	16	0		43
Other unit	49	1	0	87	0		137
All other trains	0	0	0	1	0		1
Total	211	16	3	194	1		425

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	98	18	1,255	126	
Grain	115	253	1,642	1,170	
Coal	444	432	1,181	240	
Crude Oil	22	16	17	36	
Ethanol	26	37	492	894	
Automotive	124	132	3,247	1,093	
All Other	3,268	3,264	27,191	23,266	

40.9

25.4

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.

Dellare I. Halen Deelf	View 0010	Demonstrate West	Date Week Began:	12/24/201
Railroad: Union Pacific	Year: 2016	Reporting Week:	Date Week Ended:	12/30/201
01136 (sorghum grains), 0113 billed" includes cars in shuttl in shuttle service (or dedicate	loaded and billed, reported by State, aggregated for the follo 37 (wheat), 01139 (grain, not elsewhere classified), 01144 (so le service; dedicated train service; reservation, lottery, open ed train service) versus total cars loaded and billed in all oth if no data is being reported for a field.	pybeans), 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	9	0	9	
AR	0	0	0	
CA	15	0	15	
CO	158	108	50	
ID	797	100	697	
IL	190	0	190	
IA	765	655	110	
KS	1,196	974	222	
LA	0	0	0	
MN	616	217	399	
MO	23	0	23	
MT	34	0	34	
NE	1,281	975	306	
NV	0	0	0	
NM	0	0	0	
OK	331	203	128	
OR	10	0	10	
TN	0	0	0	
ТХ	121	110	11	
UT	3	0	3	
WA	125	0	125	
WI	236	184	52	
WY	0	0	0	
Total	5,910	3,526	2,384	
		-,	_,	

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	Poporting Wook:	Date Week Began:	12/24/2016
Kalifoad. Officit Facilie	Year: 2016	Reporting Week:	Date Week Ended:	12/30/2016

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	194	0	0	16	0	0
AR	14	1	0	3	0	0
CA	2	0	0	0	0	0
CO	166	1	12	20	0	0
ID	144	0	33	69	0	0
IL	10	0	0	1	0	0
IA	0	0	10	0	0	0
KS	879	2	0	151	0	0
LA	0	0	0	0	0	0
MN	37	0	2	38	0	0
MO	119	0	0	0	0	0
MT	32	1	0	8	0	0
NE	678	1	80	127	0	0
NV	0	0	0	0	0	0
NM	0	0	0	0	0	0
ОК	286	5	110	1	0	0
OR	8	1	0	2	0	0
TN	0	0	0	0	0	0
ТХ	107	0	0	13	0	0
UT	15	0	5	2	0	0
WA	17	0	0	21	0	0
WI	173	0	0	0	0	0
WY	5	0	0	0	0	0
TOTAL	2,886	1	252	472	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	No	Dementing Weeks	Date Week Began:	12/24/2016		
Railroad: Union Pacific	Year: 2016	Reporting Week:	Date Week Ended:	12/30/2016		
	or Grain Shuttle (Or Dedicate lated To Reflect The Previou	, , ,	, Ву			
(Please Specify .		formance Four Weeks				
AR/TX		3.2	_			
CA/AZ		2.5				
Gulf		3.0				
Mexico		1.9				
PNW		5.6				
Other Domestic		7.9				

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	16.7		
Illinois Basin 0.4			
Uinta Basin	3.9		

Methodology: Ave

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