COMMUTER RAIL SYSTEM

ON-TIME PERFORMANCE REPORT

October 2008



Office of Planning & Analysis

November 2008

COMMUTER RAIL ON-TIME PERFORMANCE October 2008

This report presents an analysis of the October 2008 train delays as reported for Metra's eleven commuter rail lines. On-time is defined, for this analysis, as those trains arriving at their last station stop within five minutes of schedule. Trains that are six minutes or more behind schedule are regarded as late.

Table 1 presents the number of train delays by rail line and service period. During October 2008, Metra operated 17,974 scheduled trains, including 'extras'. 810 of these trains were delayed (late or annulled), representing an on-time performance rate of 95.5%. Table 2 lists on-time percentages by line for each month and year since 2005. Table 3 lists each train that was on time for less than 85% of its weekday runs in October 2008, in order of line, train, and dates delayed. The codes in the 'Delay Code' column of Table 3 are defined in Table 4 and shown sorted by delay-cause category in Table 5.

Table 6 provides a daily listing of the number of delays by line and branch for October 2008.

Table 7.a shows the frequency of train delays by delay-cause category and by line during October 2008. Table 7.b shows the average frequencies over the previous five Octobers, and Table 7.c shows the differences between Table 7.a and Table 7.b. There were 810 delays systemwide in October 2008, 199 more than the average over the previous five Octobers. Tables 8.a and 8.b display the systemwide frequency of train delays by cause and by month, for 2008 and 2007 respectively. From January through October of 2008, a total of 7,148 trains were delayed, compared to 7,273 trains delayed in the same ten months of 2007.

Table 9 shows, by line and month, all train delays caused by freight operations over the past 24 months. In October 2008 freight operations delayed 134 trains systemwide, compared to 77 a year earlier. Tables 10.a and 10.b display the frequency of lift-deployment train delays by line and month, for 2008 and 2007 respectively. A total of 12 trains were delayed by lift deployment in October 2008.

A review of October 2008 late trains by duration of delay is shown in Table 11. The range with the greatest number of delays as usual was six-to-ten minutes, accounting for 52.2% of all late trains. Table 12 shows that the average length of delay was 13.4 minutes in October 2008. It should be noted that these averages relate only to reportable delays (i.e., trains late by six minutes or more).

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TABLE 1: SCHEDULED AND DELAYED TRAINS, AND ON-TIME PERFORMANCE BY SERVICE PERIOD AND LINE October 2008

				W	eekday	5						Weel	kends			Total			
]	Peak*		Of	-Peak*	*		Total		Sa	aturday	s	Sunday	rs & Ho	olidays				
	Trains Scheduled	Trains Late	Percent On-Time																
BNSF	1,243	116	90.7%	924	49	94.7%	2,167	165	92.4%	112	2	98.2%	72	2	97.2%	2,351	169	92.8%	
Elec -ML	1,035	24	97.7%	783	14	98.2%	1,818	38	97.9%	184	4	97.8%	81	5	93.8%	2,083	47	97.7%	
-BI	322	6	98.1%	529	11	97.9%	851	17	98.0%	120	0	100.0%				971	17	98.2%	
-SC	<u>391</u>	2	99.5%	<u>851</u>	<u>9</u>	98.9%	1,242	<u>11</u>	99.1%	<u>192</u>	<u>7</u>	96.4%	<u>81</u>	<u>1</u>	98.8%	1,515	<u>19</u>	98.7%	
Subtotal	1,748	32	98.2%	2,163	34	98.4%	3,911	66	98.3%	496	11	97.8%	162	6	96.3%	4,569	83	98.2%	
Heritage	138	15	89.1%				138	15	89.1%							138	15	89.1%	
Milw -N	575	20	96.5%	805	22	97.3%	1,380	42	97.0%	96	7	92.7%	80	0	100.0%	1,556	49	96.9%	
-W	<u>621</u>	<u>20</u>	96.8%	715	<u>9</u>	98.7%	<u>1,336</u>	<u>29</u>	97.8%	<u>96</u>	<u>3</u>	96.9%	<u>72</u>	<u>0</u>	100.0%	1,504	<u>32</u>	97.9%	
Subtotal	1,196	40	96.7%	1,520	31	98.0%	2,716	71	97.4%	192	10	94.8%	152	0	100.0%	3,060	81	97.4%	
NCS	253	8	96.8%	253	2	99.2%	506	10	98.0%							506	10	98.0%	
RI	828	66	92.0%	736	59	92.0%	1,564	125	92.0%	82	4	95.1%	64	2	96.9%	1,710	131	92.3%	
sws	253	16	93.7%	437	38	91.3%	690	54	92.2%							690	54	92.2%	
UP -N	690	23	96.7%	921	46	95.0%	1,611	69	95.7%	104	6	94.2%	72	4	94.4%	1,787	79	95.6%	
-NW	760	32	95.8%	737	16	97.8%	1,497	48	96.8%	96	3	96.9%	60	1	98.3%	1,653	52	96.9%	
-W	<u>621</u>	<u>43</u>	93.1%	737	<u>73</u>	90.1%	<u>1,358</u>	<u>116</u>	91.5%	<u>80</u>	<u>10</u>	87.5%	<u>72</u>	<u>10</u>	86.1%	1,510	<u>136</u>	91.0%	
Subtotal	2,071	98	95.3%	2,395	135	94.4%	4,466	233	94.8%	280	19	93.2%	204	15	92.6%	4,950	267	94.6%	
SYSTEM	7,730	391	94.9%	8,428	348	95.9%	16,158	739	95.4%	1,162	46	96.0%	654	25	96.2%	17,974	810	95.5%	

*Includes peak direction trains operating during weekday peak periods. **Includes all other weekday trains. Delays data for most recent month is final (11/14/08) version from TOPS.

														JAN-	
LINE	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	OCT	AVG
BNSF	2005	94.3	95.7	96.2	98.1	95.9	95.7	96.8	94.2	94.4	95.0	96.1	93.8	95.6%	95.5%
	2006	96.9	96.4	96.4	97.7	96.2	93.4	97.4	95.0	96.2	93.7	90.2	91.4	95.9%	95.0%
	2007 2008	96.4 92.9	86.8 94.3	96.3 97.0	96.8 98.2	98.2 97.0	96.0 94.3	97.4 94.8	94.5 94.6	97.8 92.8	95.9 92.8	96.1	96.6	95.7% 94.9%	95.8% 94.9%
Electric	2005	98.5	99.3	99.6	99.3	98.8	96.5	98.6	99.5	99.2	98.7	97.2	98.7	98.8%	98.7%
	2006 2007	99.3 99.2	98.6 96.4	98.1 97.7	99.1 98.0	98.9 97.1	98.1 97.8	95.4 96.6	97.9 97.0	98.0 95.6	97.4 97.4	98.7 98.6	99.0 98.3	98.1% 97.3%	98.2% 97.5%
	2007	96.4	98.5	98.8	98.3	99.3	98.5	99.2	98.1	97.9	98.2	20.0	70.5	98.3%	98.3%
Heritage	2005	95.2	95.0	96.4	95.2	95.2	95.5	93.3	92.8	90.5	88.9	92.1	87.5	93.8%	93.1%
	2006	94.4	94.2	92.8	92.5	95.5	92.4	91.7	90.6	90.0	92.4	92.9	95.0	92.6%	92.9%
	2007	98.5	80.0	90.2	89.1	87.1	92.1	90.1	89.1	97.4	92.8	96.8	90.8	90.6%	91.1%
	2008	93.9	89.7	83.3	87.2	89.7	92.9	91.7	86.5	88.2	89.1			89.2%	89.2%
Milw - N	2005	90.4	98.4	97.5	95.4	95.7	94.3	92.4	95.8	95.6	97.7	91.3	88.3	95.3%	94.4%
	2006	92.7	97.3	95.6	97.1	93.9	93.5	90.6	95.4	94.2	92.8	89.3	92.6	94.3%	93.7%
	2007	96.0	89.5	95.6	94.0	96.0	93.0	92.0	95.0	94.1	95.2	93.7	88.1	94.1%	93.6%
	2008	96.1	92.6	96.4	95.8	95.6	95.0	93.3	93.1	95.8	96.9			95.1%	95.1%
Milw - W	2005	91.1	97.0	96.1	96.6	97.7	95.5	96.2	93.8	96.0	96.2	93.0	89.1	95.6%	94.8%
	2006	91.9	97.7	96.0	97.3	97.4	97.2	93.4	95.2	97.4	96.9	98.2	94.1	96.0%	96.0%
	2007 2008	98.8 94.5	90.1 96.6	97.8 97.1	95.5 97.4	96.7 97.8	95.7 97.8	93.8 96.1	93.7 94.1	96.8 98.3	98.3 97.9	98.0	93.5	95.8% 96.8%	95.8% 96.8%
			90.0	97.1	97.4				94.1	90.5	91.9				
NCS	2005	88.6	97.0	89.6	90.0	98.1	85.5	89.5	90.0	89.0	93.3	88.2	84.9	91.0%	90.2%
	2006 2007	92.6 95.9	98.0 91.2	93.5 94.0	93.8 92.9	96.1 93.8	96.8 94.4	95.3 95.9	96.3 94.3	95.6 94.7	91.7 96.2	91.1 97.2	93.4 94.4	95.0% 94.4%	94.5% 94.6%
	2007	93.9 93.4	91.2 94.4	94.0 97.4	92.9 95.1	95.8 95.0	94.4 91.3	95.9 96.5	94.5 97.4	94.7 94.4	90.2 98.0	91.2	94.4	94.4% 95.3%	94.0% 95.3%
DI												01.0	01.6		
RI	2005 2006	96.6 95.9	98.6 97.1	97.9 96.8	98.0 97.5	96.3 96.3	93.7 96.7	94.2 94.4	97.4 97.1	93.8 96.8	86.5 95.7	91.8 97.4	91.6 94.2	95.3% 96.4%	94.7% 96.3%
	2000	95.9 96.0	97.1 84.0	90.8 96.4	97.5 98.4	96.5 96.1	90.7 93.9	94.4 92.0	97.1 94.3	90.8 95.8	93.7 97.1	97.4 95.2	94.2 90.9	90.4% 94.5%	90.3% 94.2%
	2008	95.5	95.6	94.5	98.8	97.6	96.4	96.5	96.9	95.8	92.3	2012	, 01	96.0%	96.0%
SWS	2005	94.0	92.5	97.0	96.7	94.7	96.0	94.4	96.7	96.1	95.5	93.2	90.5	95.4%	94.8%
	2006	92.3	93.3	97.0	96.2	94.1	96.4	93.0	89.7	85.2	90.8	95.7	93.0	92.9%	93.1%
	2007	98.6	95.3	97.0	97.8	97.0	96.2	96.9	95.8	97.4	95.1	95.7	95.2	96.7%	96.5%
	2008	93.5	96.3	95.1	94.4	95.4	95.7	98.3	93.5	95.3	92.2			95.0%	95.0%
UP - N	2005	94.0	99.6	99.0	99.5	98.8	96.6	96.3	93.7	97.6	96.7	98.4	99.0	97.2%	97.4%
	2006	98.5	98.1	98.8	97.0	99.5	98.3	95.6	95.8	97.8	98.7	96.7	96.6	97.8%	97.6%
	2007 2008	98.0 91.9	92.8 89.4	97.9 95.1	98.5 95.5	97.4 97.1	93.9 90.9	93.5 92.2	89.8 89.9	96.8 93.5	97.6 95.6	96.8	92.6	95.6% 93.1%	95.4% 93.1%
UP - NW	2005	93.6	98.0	97.1	98.4	98.8	96.2	98.6	94.8	98.6	98.4	94.9	96.0	97.2%	96.9%
	2006 2007	97.9 95.8	98.6 91.8	98.5 97.1	98.0 97.7	99.1 98.0	98.4 97.2	98.0 96.5	96.3 93.2	97.3 95.7	96.5 98.0	96.6 95.2	96.9 95.2	97.8% 96.1%	97.7% 96.0%
	2007	91.9	91.8	97.1	96.5	96.8	95.5	95.1	97.1	96.9	96.9	15.2	15.2	95.6%	95.6%
UP - W	2005	01.7	97.0	06.9	98.1	04.1	92.7	95.3	02.2	06.4	94.9	05.0	92.7	94.9%	94.7%
UP - W	2005	91.7 91.7	97.0 93.7	96.8 96.0	98.1 94.2	94.1 94.2	92.7 95.6	95.5 96.1	92.2 94.8	96.4 95.1	94.9 96.0	95.0 94.9	92.7 93.8	94.9% 94.8%	94.7% 94.7%
	2007	95.9	91.5	93.6	96.5	94.7	93.7	95.6	90.7	93.2	96.6	95.5	91.0	94.2%	94.1%
	2008	95.2	90.4	93.7	94.5	96.9	95.4	95.3	94.5	93.0	91.0			94.0%	94.0%
SYSTEM	2000	96.7	97.0	98.1	98.3	97.7	97.0	96.4	96.7	97.7	97.3	97.1	81.9	97.3%	96.0%
(not including		95.1	97.5	98.0	97.7	97.4	96.1	95.0	95.6	96.9	97.0	97.6	97.4	96.6%	96.8%
South Shore)	2002	97.0	97.7	96.8	97.1	95.9	95.1	96.0	96.1	97.7	95.9	96.2	96.3	96.5%	96.5%
	2003	97.2	97.4	97.3	97.3	98.0	96.5	96.2	96.4	97.5	96.8	97.4	97.3	97.1%	97.1%
	2004 2005	96.1 94.6	96.9 97.9	97.9 97.7	97.7 98.0	97.3 97.3	96.8 95.3	96.9 96.4	97.7 95.9	96.9 96.7	96.6 95.9	96.4 95.1	95.8 94.4	97.1% 96.6%	96.9% 96.3%
	2005	94.6 96.2	97.9 97.2	97.7 97.1	98.0 97.4	97.3 97.1	95.3 96.5	96.4 95.2	95.9 96.0	96.7 96.3	95.9 95.7	95.1 95.5	94.4 95.3	96.6% 96.5%	96.3% 96.3%
	2000	97.4	91.4	96.6	97.0	96.7	95.6	95.2 95.2	94.2	95.8	96.9	96.5	94.4	95.7%	95.7%
	2008	94.5	94.5	96.6	97.0	97.4	95.7	96.0	95.3	95.7	95.5			95.8%	95.8%
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TABLE 2: ON-TIME PERFORMANCE BY LINE/BRANCH

Delays data for most recent month is final (11/14/08) version from TOPS.

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		Minutes	Delay	
Line Train	Date	Late	Code	Delay Explanation
BNSF 1241	Thu, Oct 09	9	D	M-CSXPAS1-09 DEPARTING CICERO, MOW ON MT 2
74% OT	Fri, Oct 10	8	C1	E-CXENAMO-48 AHEAD AT EOLA
	Mon, Oct 20	11	Ν	SIGNAL FAILURE AT HILL EAST AND WEST
	Tue, Oct 28	13	D	DROPPED SHORTS OFF AT WESTMONT AND EXPRESSED TO AURORA M-NCIKCK4-28
	Thu, Oct 30	7	DD	MISROUTE AT HIGHLANDS
	Fri, Oct 31	15	Ι	HEAVY UNLOADING TO BELMONT, CAUGHT UP TO EXTRA 9407 AT ROUTE 59
BNSF 1243	Wed, Oct 01	10	D	M-GALNSI01 CLEARING INTO WEST YARD
65% OT	Thu, Oct 09	7	V	WENT INTO EMERGENCY AT CPK
	Fri, Oct 10	7	C1	HELD AT EOLA TO OPERATE 1280
	Mon, Oct 20	25	Ν	SIGNAL FAILURE AT HILL EAST AND WEST
	Tue, Oct 28	22	D	PICKED UP SHORTS AT WESTMONT, 1241 AND 1239 TRAFFIC AT LISLE M-NCIKCK4-28
	Wed, Oct 29	7	Ι	CAUGHT UP TO 1241 AT DOWNERS GROVE AND PASSENGER ISSUES AT LISLE WITH
				DOOR PROBLEMS
	Thu, Oct 30	10	DD	FOLLOWED 1241
	Fri, Oct 31	8	I	CAUGHT UP TO 1241 WITH HEAVY UNLOADING
BNSF 1258	Fri, Oct 03	25	G1	HIGHLAND SERVICE RECOVERY
	Wed, Oct 08	28	F1	LATE FLIP - EXTRA STOPS WEST AND EXTRA STOPS FOR 1256 EAST
	Fri, Oct 17	8	D	OPERATED AROUND C-ATMCNT0-28 AT LISLE
	Fri, Oct 24	9	D	WAIT FOR LIGHT POWER MOVE AT CONGRESS PARK
	Mon, Oct 27	10	С	WALKED OVER RAIL ISSUE AT HINSDALE
	Tue, Oct 07	9	CF	MT 2 OUT OF SERVICE BETWEEN BERWYN TO CPK, 1251 DISABLED AT HARLEM AVE
	Thu, Oct 09	22	R1	LATE EQ FROM YARD
	Fri, Oct 17	10	GX	TRAINS AHEAD AND CROSSING MALFUNCTION AT FAIRVIEW AVE
	Fri, Oct 24	9	I	HEAVY PASSENGER LOADING
	Thu, Oct 30	8	DD	HAD TO WAIT FOR 1269 TO CLEAR PLATFORM
BNSF 1273	Fri, Oct 03	20	Il	FOLLOWED 1275, HELD AT EOLA, STOP SIGNAL
	Mon, Oct 06	8	G	1275 AHEAD AT FVW, TURNING ON NORTH SIDE ACCT SWITCH FAILURE
	Tue, Oct 07	12	CF	MT 2 OUT OF SERVICE BETWEEN BERWYN TO CPK, 1251 DISABLED AT HARLEM AVE
	Wed, Oct 08	7	I1	PSGR TRAIN INTERFERENCE
	Thu, Oct 09	19	R1	FOLLOWED 1275
	Fri, Oct 10	10	C1	FOLLOWED TRAIN 1275
	Wed, Oct 15	10	I1	FOLLOWED 1275
	Fri, Oct 17	10	GX	TRAINS AHEAD AND CROSSING MALFUNCTION AT FAIRVIEW AVE
	Wed, Oct 22	9	Е	CAB SIGNAL ISSUES AT CICERO
	Tue, Oct 28	16	D1	1275 AHEAD CP TO FAIRVIEW, 1283 AT EOLA
	Thu, Oct 30	31	F1	5ATE FLIP OFF 1274
BNSF 1275	Fri, Oct 03	13	Ι	LATE FLIP AND UNLDG WITH PLATFORMS UNDER CONSTRUCTION
57% OT	Tue, Oct 07	10	CF	MT 2 OUT OF SERVICE BETWEEN BERWYN TO CPK, 1251 DISABLED AT HARLEM AVE
	Wed, Oct 08	7	Ι	LDG AT PLATFORMS UNDER CONSTRUCTION
	Thu, Oct 09	16	R1	FOLLOWED 1277 OUT OF CUS, PSGR ISSUES WITH 1271 LDG
	Fri, Oct 10	9	CC	STUDENT ENGINEER, SPOTTING AT PLATFORM UNDER CONSTRUCTION
	Wed, Oct 15	9	IW	SLOW UNLOADING WEATHER RELATED
	Fri, Oct 17	12	GX	TRAINS AHEAD AND CROSSING MALFUNCTION AT FAIRVIEW AVE
	Mon, Oct 20	26	N	SIGNAL FAILURE AT HILL EAST AND WEST
	Tue, Oct 28	7	D1	LATE FLIP OFF TRAIN 1276
	Thu, Oct 30	17	F1	LATE FLIP OFF 1276
BNSF 1276	Fri, Oct 03	10	I	LATE FLIP OFF 1239, HVY LDG
78% OT	Tue, Oct 07	9	CF	Z-STPCHC9-07 CLEARING INTO CICERO, MT 2 OUT OF SERVICE
	Mon, Oct 20	19	N	SIGNAL FAILURE AT HILL EAST AND WEST
	Thu, Oct 30	18	F1	BEHIND 1274
	Fri, Oct 31	8	I	LATE FLIP OFF 1239

		Minutes	Delay	
Line Train	Date	Late	Code	Delay Explanation
BNSF 1279	Wed, Oct 01	20	Е	LOST HEP, HEP BREAKER ON ENGINE 402 WOULD NOT TRIP. FOLLOWED 1281 OUT CUS
78% OT	Tue, Oct 07	14	CF	MT 2 OUT OF SERVICE BETWEEN BERWYN TO CPK, 1251 DISABLED AT HARLEM AVE
	Wed, Oct 08	7	Е	1279 AHEAD WITH CAB SIGNAL PROBLEMS
	Thu, Oct 09	14	R1	FOLLOWED 1275, 1271 OUT OF CUS
	Thu, Oct 30		F1	LATE FLIP 1278
BNSF 1280	Tue, Oct 07		CF	HELD FOR WESTBOUND TRAFFIC AT CPK
70% OT	Wed, Oct 08		Ι	MADE 1274 SCHEDULE FROM LAGRANGE RD INTO CUS
	Thu, Oct 09		R1	WAITING FOR 1271 EQ TO DEPART CUS
	Mon, Oct 20		N	SIGNAL FAILURE AT HILL EAST AND WEST
	Tue, Oct 28		D1	LATE FLIP 1241, OPERATED 1276 SCHEDULE
	Thu, Oct 30		F1	BEHIND 1274, 1276, 1278
D.1001	Fri, Oct 31	10	I	LATE FLIP OFF 1241
BNSF 1281	Wed, Oct 01	7	E1	SIGNAL RAN ON 1279, DEPARTED 4 MIN LATE
78% OT	Fri, Oct 03		D	WAITED FOR 1373 TO CLEAR PLATFORM AT ATC
	Tue, Oct 07 Tue, Oct 28		CF	LATE FLIP 1281 SWAP EQUIPMENT WITH 1285 LATE FLIP 1280
	Thu, Oct 28 Thu, Oct 30		D1 F1	FOLLOWED 1273
BNSF 1283	Thu, Oct 30 Thu, Oct 09		XR	CREW ISSUE ON 1287, EQ TAKEN TO OPERATE 1287
78% OT	Wed, Oct 15		RA	MISROUTE AT CHICAGO UNION STATION
787601	Fri, Oct 17		GX	TRAIN AHEAD AND CROSSING MALFUNCTION AT FAIRVIEW AVE
	Mon, Oct 20		N	LATE FLIP FROM 1282 LEAVING CUS, LOADING LATE ARRIVAL TRAIN AT CUS
	Thu, Oct 30		DD	HAD TO WAIT FOR 1275 TO CROSSOVER AT FAIRVIEW AND OPERATED OVER 10 MPH
	111 u , Oet 50	,	DD	S/R
BNSF 1285	Tue, Oct 07	8	CF	LATE FLIP 1286
83% OT	Thu, Oct 09		R1	1373 AHEAD
007001	Tue, Oct 28		D1	SWAP EQUIPMENT WITH 1281
	Thu, Oct 30		F1	FOLLOWED 1281/1273
BNSF 1373	Fri, Oct 03		D	1273 AHEAD AT EOLA
65% OT	Tue, Oct 07		CF	LATE FLIP 1284
	Thu, Oct 09	29	R	MADE 1283 STOPS, PARTED AIR HOSE AT FVW (10")
	Wed, Oct 15	7	RA	MISROUTE AT CHICAGO UNION STATION
	Fri, Oct 17	20	GX	DEPARTING LATE ON TRAIN 1284 FROM UNION STATION AND CROSSING
				MALFUNCTION AT FAIRVIEW AVE
	Mon, Oct 20	10	Ν	WAS HELD AT FAIRVIEW FOR 1275/1372 TO CROSSOVER TO DH BACK TO CUS
	Tue, Oct 28	14	D1	LATE FLIP OFF 1284
	Thu, Oct 30		DD	1283 AHEAD AT FAIRVIEW AND FOLLOWED 1283 TO AURORA
ELBI 0227	Tue, Oct 14	6	I	6" HEAVY ENTRAINING SOUTH OF 51ST ST AND STUDENT ENGINEER OPER-ATING
			_	TRAIN.
65% OT	Wed, Oct 15		I	6" STUDENT ENGINEER AND HEAVY ENTRAINING ENROUTE.
	Thu, Oct 16		I	2" #326 CLEARING, RAND; 5" SLOW ENTRAINING AND STUDENT ENGINEERENROUTE.
	Fri, Oct 17		I	4" SLOW ENTRAINING ENROUTE; 3" STUDENT ENGINEER.
	Thu, Oct 23	12	Ι	ENROUTE DUE TO INTERMITTENT DOOR LIGHTE, HEAVY PASSENGER LOADING AND A
	Man Oct 27	C	т	STUDENT ENGINEER.
	Mon, Oct 27 Wed, Oct 20		I	2" STUDENT ENGINEER; 4" PSGR HANDLING. 1" #226 CLEARING AHEAD, RANDOL PH ST: 5" ENTRAINING ENROUTE
	Wed, Oct 29 Fri Oct 31		I	1" #326 CLEARING AHEAD, RANDOLPH ST; 5" ENTRAINING ENROUTE. 3" STUDENT LOADING ENROUTE; 4" WAITING FOR EXTRA TO CLEAR, KENSINGTON.
MN 2144	Fri, Oct 31 Mon, Oct 13	8	I D1	3° STUDENT LOADING ENROUTE; 4° WATTING FOR EXTRA TO CLEAR, KENSINGTON. 8" DELAYED #2142 AHEAD.
83% OT	Mon, Oct 13 Mon, Oct 20		G	8 DELATED #2142 AREAD. 2" RULE 6.30 W/2125, DEERFIELD; 13" SIG PROBS, TOWER A2.
05/0 01	Fri, Oct 20		G1	10" FOLLOWING DELAYED #2142. SIGNAL PROBLEMS GLENVIEW.
	Thu, Oct 30		F1	8" STOP SIGNAL, CANAL ST; 2" MEETING 2123, DEERFIELD.
RI 0303	Mon, Oct 13		G1	8 STOF SIGNAL, CANAL ST, 2 MEETING 2125, DEEKHEED. 8"WAITING AT GRESHAM ACCOUNT PLANT LOCKED UP
83% OT	Thu, Oct 23		XE	ANNULLED DUE TO INCIDENT INVOLVING #411W. EQUIPMENT USED ON #417.
	Thu, Oct 23 Thu, Oct 30		G	8" SWITCH FAILURE, GRESHAM.
	Fri, Oct 31	0	XT	ANNULLED. WOULD HAVE BEEN TURN OF ANNULLED #3032.
<u> </u>	111, 000 51	0		The could find been for of fundeeled 19052.

			Minutes	Delay	
Line	Train	Date	Late	Code	Delay Explanation
RI	0417	Mon, Oct 13	10	G	2" RED SIG, 54TH ST; 2" FLAGGING ENGLEWOOD; 6" SW FAILURE, GRESHAM JCT.
-	74% OT	Wed, Oct 15	11	R1	11" #415 RESPOTTING TRN, JUD.
		Fri, Oct 17		G	6" MEETING #420/FLAGGED BY RED SIG/RUN REST SPEED, ROBBINS; 2" ADA, TIN PK; 3"
		,	-	-	MEETING #526, NEW LENOX.
		Thu, Oct 23	16	E1	13" USED #303'S EQUIPMENT (ACCT INCIDENT INVOLVING #411W); 3" NO REASON
		,			GIVEN.
		Thu, Oct 30	9	G	12" #12 SWITCH FAILURE, GRESHAM.
		Fri, Oct 31	8	T	8" VANDALISM, GRESHAM.
RI	0419	Wed, Oct 01	7	I	2" AMTRAK #353 CLEARING ENGLEWOOD; 5" NO REASON GIVEN.
7	78% OT	Thu, Oct 09	7	D	3" DROPPED SIGNAL/ONGOING PROBLEM, ROBBINS; 5" X-TRAFFIC BNSF 916, JUD.
		Wed, Oct 15			2" FLAGGING ENGLEWOOD; 4" GX PROCEDURES, 95/VINCENNES & 105/ VINCENNES; 3"
		,			TALKED BY SIG, ROBBINS; 1" NO REASON GIVEN.
		Thu, Oct 23	15	E1	7" DETRAINING, WASH HTS & BLUE ISLAND; 2" ADA OFF, OAK FOREST; 10"
		.,			CONGESTION (DUE TO EARLIER INCIDENT INVOLVING #411W), MILLER ST.
		Fri, Oct 31	25	T1	23" LATE TURN OF DELAYED #418; 2" VANDALISM, GRESHAM.
RI	0503	Wed, Oct 01	9	J1	9" MEETING #612/DELAYED #412, GRESHAM JCT AND RULE 6.30 ENROUTE
	70% OT	Tue, Oct 14	8	В	2" #612 CLEARING GRESHAM JCT; 5" ATTEMPTING TO CONTACT B101-4 (FOREMAN
		,			HAD B/O RADIO-DISP RELAYED INSTRUCTIONS).
		Wed, Oct 15	6	А	4" #612 CLEARING AHEAD, GRESHAM JCT; 2" NO REASON GIVEN.
		Wed, Oct 22	8	CC	4" #612 CLEARING GRESHAM JCT; 4" CONFUSION OVER RED BOARD FOR B101-5, BLUE
					ISLAND; 3" ENTRAINING/DETRAINING ENROUTE.
		Wed, Oct 29	13	V1	4" #612 CLEARING AHEAD, GRESHAM JCT; 12" ANNULLED #302 AHEAD, BLUE ISLAND.
		Thu, Oct 30	9	I1	5" MEETING DELAYED #612, GRSHM; 4" SLOW ENTRAINING ENROUTE; 3" RULE 6.30,
					95TH ST AND 80TH AVE.
		Fri, Oct 31	24	Т	24" LATE TURN OF DELAYED #606/VANDALISM, GRESHAM.
RI	0513	Thu, Oct 02	9	D	2" NS MOW, ENGLEWOOD; 2" F STOPS, 123RD & ROBBINS; 1" X/O, MT2-MT1, ROBBINS
					(SINGLE TRACKING AROUND CSX #J745); 4" RED SIG, MOKENA.
8	83% OT	Tue, Oct 14	6	CC	2" MEETING #512, 54TH ST (SINGLE TRACKING-MOW); 2" AMTRAK #352 CLEARING
					ENGLEWOOD; 2" NO REASON GIVEN.
		Mon, Oct 20	8	CC	4" MEETING #512, 54TH ST (SINGLE TRACKING-MOW); 2" CAB SIG PROBS ENROUTE; 2"
					AUTO ON TRKS, 105TH ST; 2" ADA OFF, 107TH.
		Fri, Oct 31	24	Т	5" TRUCK STUCK UNDER BRIDGE, 31ST ST; 19" VANDALISM, GRESHAM.
RI	0525	Fri, Oct 24		Ι	6" ADA AND HEAVY PASSENGER LOADING
8	83% OT	Wed, Oct 29		V	5" LOST HELP, GRESHAM; 3" F STOPS ENROUTE; 2" ADA ON, 95TH/ OFF, 115TH.
		Thu, Oct 30		AA	3" MAKING ALL FLAGSTOPS ENROUTE; 5" MEETING IAIS 156W, MDLTHN.
		Fri, Oct 31	9	Т	9" VANDALISM, GRESHAM; 3" F STOPS ENROUTE.
SWS		Thu, Oct 02		D	9" #AGBPX2 CLEARING CP RIDGE; 12" NS #205 TAKING HEADROOM, CP 518.
7	70% OT	Tue, Oct 14	7	CC	9" MEETING DELAYED #811, CP 518 AND FOLLOWING AMTRAK #371 ON NS MT1 (NS
					MT2 BLOCKED BY HI-RAIL BETW CP 518 AND 21ST ST).
		Wed, Oct 15		CC	11" NS TRK CAR CLEARING 21ST ST.
		Wed, Oct 22		AM	7" MEETING #811, CP 518 AND FOLLOWING AMTRAK #371 FROM 21ST ST.
		Fri, Oct 24	11	С	2" X-TRAFFIC, FOREST HILL; 2" RECEIVING INSTS FROM FOREMAN, BELT JCT; 3" SPEED
					REST THRU PLANT, CP518; 4" NO REASON GIVEN.
		Tue, Oct 28		CG	10" WAITING INSTRUCTIONS FROM BRC ROADWAY WORKER/FLAGGING BELT JCT.
		Wed, Oct 29	20	D1	19" LATE TURN OF DELAYED #807; 4" RESTRICTING, CP RIDGE.

		Minutes	Delay	
Line Train	Date	Late	Code	Delay Explanation
SWS 0826	Wed, Oct 01	11	S 1	19" LATE TURN OF DELAYED #811; 2" NO REASON GIVEN.
57% OT	Fri, Oct 03	7	D	12" X-TRAFFIC CN (GTW), ASHBURN; 6" NO LINEUP FROM DISP/SIGNAL TIMING OUT,
				CP518; 3" COAL TRAIN CLEARING, 21ST.
	Mon, Oct 06	6	D	1" TWO BIKES, OAK LAWN; 2" MEETING #815; CP 518; 3" FRT TRN INTAT 21ST ST.
	Wed, Oct 08	11	CC	12" MEETING DELAYED #815 AND NS MOW, CP 518; 10" FRT TRN INT/ AMTRAK #49W
				CLEARING AHEAD, 21ST ST.
	Wed, Oct 15		D	6" CN #04809 & M394 CLEARING 21ST ST; 4" SOUTH BRANCH BRIDGE OPEN.
	Mon, Oct 20	19	D	19" #SF-BLUCPC CLEARING AND S/O THRU CP RIDGE; 3" FRT TRN INT, BELT JCT.
	Tue, Oct 21	11	D	4" FRT TRN INT, BELT JCT; 14" CN #M394 CLEARING 21ST ST; 2" SOUTH BRANCH
	E: 0 . 01	10	P	BRIDGE OPEN.
	Fri, Oct 24	12	D	5" FLAGGED BY/TRACK CIRCUIT DOWN, CP RIDGE; 5" X-TRAFFIC, BELT;3" SPEED REST,
	Mon, Oct 27	10	CA	CP518. 10" SOUTH BRANCH BRIDGE NOT SEATED PROPERLY-FLAGGED 21ST ST.
	Tue, Oct 27		GA CG	10 SOUTH BRANCH BRIDGE NOT SEATED PROPERLY-FLAGGED 21ST ST. 10" WAITING INSTRUCTIONS FROM BRC ROADWAY WORKER/FLAGGING BELT JCT; 3"
	Tue, Oct 28	13	CG	
UPN 0350	Mon, Oct 06	9	I1	SOUTH BRANCH BRIDGE OPEN. 5" LATE TURN OF DELAYED #337; 4" HEAVY ENTRAINING/DETRAINING ENROUTE.
83% OT	Tue, Oct 07	9 7	I	7" HEAVY ENTRAINING ENROUTE.
0570 01	Fri, Oct 10		I1	7" LATE TURN OFF #337; HEAVY ENTRAINING, HIGHLAND PK, DAVIS, RAVNSWD; TWO
	111, 001 10	,		ADAS, RP.
	Mon, Oct 13	7	Ι	7" ENTRAINING ENROUTE.
UPN 0352	Tue, Oct 21	12	I	12" HEAVY ENTRAINING ENROUTE.
83% OT	Fri, Oct 24	12	Ι	12" HEAVY ENTRAININD, WAUK, N CHGO, GRT LKS, LK BLUFF, LAKE FOREST, RP,
	,			RVNSWD, CLYBOURN.
	Mon, Oct 27	7	Ι	7" HEAVY ENTRAINING/DETRAINING ENROUTE.
	Fri, Oct 31	10	Ι	10" SLOW ENTRAINING ENROUTE.
UPN 0359	Thu, Oct 09	19	AD	19" #357 AHEAD.
83% OT	Wed, Oct 15	7	Ι	7" ENTRAINING ENROUTE.
	Fri, Oct 24	9	I1	12" LATE TURN OFF #352.
	Fri, Oct 31	8	I1	9" LATE TURN OF DELAYED #352.
UPN 0361	Mon, Oct 06		Ι	7" HEAVY ENTRAINING/DETRAINING ENROUTE.
35% OT	Tue, Oct 07	11	I	11" S/O, M6 3.63 & 31.75-32.0 AND HEAVY ENTRAINING/DETRAINING ENROUTE.
	Wed, Oct 08	8	I	8" HEAVY ENTRAINING/DETRAINING ENROUTE.
	Thu, Oct 09	10	Ι	10" HEAVY ENTRAINING/DETRAINING, CLYBOURNWINNETKA; SLOW ORDERMP3.63
	Tue, Oct 14	12	Ι	AND MP31.75MP32 12" HEAVY ENTRAINING/DETRAINING ENROUTE.
	Wed, Oct 15		I	10" HEAVY ENTRAINING/DETRAINING ENROUTE.
	Thu, Oct 16		I	9" HEAVY ENTRAINING/DETRAINING ENROUTE.
	Fri, Oct 17		I	10" SLOW ENTRAINING/DETRAINING ENROUTE.
	Wed, Oct 22		I	10" HEAVY ENTRAINING/DETRAINING ENROUTE.
	Thu, Oct 23		I	10" HEAVY ENTRAINING/DETRAINING ENROUTE.
	Fri, Oct 24	8	IW	8" SLOW ENTRAINING/DETRAINING, CLYBOURN, RVNSWD, RP, DAVIS ST, LK BLUFF, LF
				FOREST, GRT LKS, N CHGO.
	Tue, Oct 28	8	Ι	8" HEAVY ENTRAINING/DETRAINING ENROUTE.
	Wed, Oct 29	7	Ι	7" HEAVY ENTRAINING/DETRAINING ENROUTE.
	Thu, Oct 30	7	Ι	7" HEAVY ENTRAINING/DETRAINING, CLYBOURN TO HIGHLAND PARK.
	Fri, Oct 31	8	Ι	8" SLOW ENTRAINING ENROUTE.
UPN 0362	Fri, Oct 03	7	Ι	7" HEAVY ENTRAINING ENROUTE.
52% OT	Tue, Oct 07	8	I1	10" LATE TURN OF DELAYED #361.
	Thu, Oct 09	8	I1	10" LATE TURN OFF #361 (NO DELAY INFO FOR #361)
	Fri, Oct 10		D	10" COAL TRAIN CBMWK1-08, WAUKEGAN.
	Tue, Oct 14	9	I1	12" LATE TURN OF DELAYED #361.
	Thu, Oct 16		I1	9" LATE TURN OFF #361.
	Fri, Oct 17		J 11	16" EJECT PSNGR, DAVIS ST.
	Wed, Oct 22 Thu, Oct 23	7	I1 11	10" LATE TURN OF DELAYED #361. 10" LATE TURN OF DELAYED #361.
	,	8 7	I1 IW	
	Fri, Oct 24	/	IW	7" SLOW ENTRAINING/DETRAINING DUE TO WEATHER, WAUK, GRT LKS, HIGHLAND
	Fri, Oct 31	7	Ι	PK, DAVIS ST, RVNSWD. 7" SLOW ENTRAINING ENROUTE.
	rn, Oct 31	7	1	/ SLOW ENTRAINING ENROUTE.

		Minutes	Delay	
Line Train	Date	Late		Delay Explanation
UPW 0034	Wed, Oct 08	13	L1	10" LATE TURN OF DELAYED #19; 3" THREE ADAS ENROUTE.
74% OT	Thu, Oct 16	8	CC	8" S/O, MP36 AND MP23MP21.5; RULE 6.30 ENROUTE.
	Fri, Oct 17	15	С	5" LATE TURN OFF #19; 10" SLOW THRU XOVER, PARK.
	Wed, Oct 22	8	А	8" PSGR TRN INT, TOWER A2.
	Mon, Oct 27	13	R1	8" LATE TURN OF DELAYED #19; 5" NO REASON GIVEN.
	Wed, Oct 29	20	R1	13" LATE TURN OF DELAYED #19; DELAYED #32 AHEAD.
UPW 0035	Mon, Oct 13	19	D	29" #MELNP-11/MPREA-13 AHEAD FROM PARK.
83% OT	Wed, Oct 15	7	D	17" MOW ENROUTE AND #YW61R & MELNP-15 AHEAD, WEST CHICAGO.
	Tue, Oct 21	16	CC	26" #ZCSLT-21 AHEAD, KEDZIE, #CPPCA-21 AHEAD, WEST CHICAGO AND MOW, MP 22.5-
				26.5 & 36.8.
	Fri, Oct 24	10	D	20" MPREA AHEAD, PARKPECK.
UPW 0038	Thu, Oct 09	10	Ι	10" SLOW ENTRAINING, GENEVAVILLA PK.
83% OT	Mon, Oct 13	11	Ι	11" SLOW ENTRAINING ENROUTE (GROUP TRAVEL).
	Wed, Oct 22	9	CC	9" MOW, MP 36.8, 33.0-31.5 & 26.5-24.0.
	Tue, Oct 28	10	S	10" EFFICIENCY TEST, KEDZIE.
UPW 0042	,	14	G	24" TRK LIGHTS OUT, TURNER-PARK.
74% OT	Tue, Oct 07	8	D	18" #MNPPR-05 AHEAD, GENEVA-PARK.
	Thu, Oct 09	11	CC	11" FORM B'S, MP31.5MP33 AND MP29.3
	Wed, Oct 15		D	20" MOW ENROUTE AND #MCPRI-14 AHEAD, PARK-PROVO JCT.
	Fri, Oct 17	6	CC	16" FORM B'S ENROUTE; X-TRAFFIC CEYKX, GENEVAVILLA PK.
	Wed, Oct 29	12	R1	20" LATE TURN OF DELAYED #21; 2" MOW, MP 36.8, 33.0-31.5 & 27.0TO 24.5 AND
				OPERATED MT2, TURNER-PARK.
UPW 0054	Thu, Oct 09	17	CC	27" FORM B'S ENROUTE; MCBPR-8 AHEAD, PARK.
74% OT	Mon, Oct 13	10	D1	29" LATE TURN OF DELAYED #35 AND PSGR TRN INT, TOWER A2.
	Tue, Oct 14	20	D	30" DISABLED #CWECR-09 W/DRAGGING EQUIP) AHEAD, WINFIELD & WHEATON. TRN
	T 0 1 01	10	C 1	#54 OPERATED MT2, TURNER-PARK AFTER MOW CLEARED UP.
	Tue, Oct 21	19	C1	25" LATE TURN OF DELAYED #35; 4" S/O, MP 36.8 AND #MPREA-21 AHEAD, PECK AND
	Well Oct 22	27	D	#WWCWB-21 AHEAD, WEST CHICAGO.
	Wed, Oct 22	27	D	37" DISABLED #KLAG1-19 AHEAD, EJE XING AMD #KLAG1-19/QNPSKP-21 AHEAD,
	Eni Oat 24	0	D1	WINFIELD-PARK.
UPW 0055	Fri, Oct 24 Wed, Oct 08	8 10	D1 R1	10" LATE TURN OFF #35; MPEPR AND ZCIG1-21 STOPPED, WASHINGTON ST. 10" DELAYED #53 AHEAD.
83% OT	Thu, Oct 09	10	L1	10 DELATED #35 AREAD. 13" #53 AHEAD.
0570 01	Wed, Oct 15	6	A	6" #53 AHEAD.
	Mon, Oct 20	9	G	10" USED #49'S EQUIP (LATE EQUIP FROM CACY-SW #27 FAILED, TOWER A2).
UPW 0060	Fri, Oct 03	18	D1	18" MEETING DELAYED #59, PARK.
78% OT	Wed, Oct 08	10	RF	10" PLANT-IN-TIME (WRONG LINE-UP), VALE.
10/001	Tue, Oct 14	9	D1	9" DELAYED #58 AHEAD.
	Mon, Oct 20	12	G1	12" LATE TURN OF DELAYED #59.
	Wed, Oct 22	8	D1	8" DELAYED #58 AHEAD.
UPW 0062	Thu, Oct 09	15	L1	12" LATE TURN OFF #47; 3" ADA'S ENROUTE.
83% OT	Mon, Oct 13	9	D	9" #AGBCY CLEARING AHEAD AND MEETING DELAYED #63 (WHICH X/O, MT1-MT3),
	,			PARK.
	Wed, Oct 22	8	C1	5" LATE TURN OF DELAYED #47; 3" SLOW ENTRAINING, LA FOX AND PSGR TRN INT,
				TOWER A2.
	Fri, Oct 31	8	Ι	9" SLOW ENTRAINING ENROUTE.
UPW 0065	Thu, Oct 02		D	14" #CPPRO-02 AHEAD, PROVO JCT (#CPPRO-02 WAITIED FOR #YWC62R- 02 TO RELIGN
				SWITCH).
78% OT	Mon, Oct 13	24	KD	24" SPEEDOMETER FAILED, LOMBARD. COMPLIED W/RULE 17.7 AND RAN ON
				DISPATCHER BLOCKS, GENEVA-ELBURN.
	Mon, Oct 20	19	D	19" #QNPPR-20 CLEARING PARK AND #CWKBM-20 AHEAD FROM LOMBARD.
	Thu, Oct 23	24	D	24" #CANBT-23 AHEAD FROM KEDZIE.
	Thu, Oct 30	9	D	9" CSVMW-29 X-TRAFFIC, KEDZIE; MSKNP-30 X-TRAFFIC, W CHGO; GATE FAILURE,
				YORK RD.

Data is final (11/14/08) version from TOPS.

 $P:\label{eq:ontime} P:\label{eq:ontime} P:\l$

TABLE 4: DELAY CODES AND DEFINITIONS

Code	Definition	Code	Definition
А	Passenger Train Interference	М	Right of Way Accident/Misc.
AA	Rule 9.9 Delayed in Block/Rule 6.30	MW	Right of Way Accident/Misc., Weather
AD	Non-Revenue Passenger Train Interference	M1	Right of Way Accident/Misc., Train Ahead
AM	Amtrak Caused Delay	N	ComEd Failure
AS	NICTD Train Interference	NW	ComEd Failure, Weather
AW	Pass. Train Interference, Weather	N1	ComEd Failure, Train Ahead
A1	Pass. Train Interference, Train Ahead	0	AC/DC System Failure
В	Human Error, Eng. Dept.	OW	AC/DC System Failure, Weather
BA	Amtrak Engineering Human Error	01	AC/DC System Failure, Train Ahead
BW	Human Error, Eng. Dept. Weather	P	Late Equipment From Coach Yard
B1	Human Error, Eng. Dept. Train Ahead	PW	Late Equipment From Coach Yard, Weather
С	M of W Work	P1	Late Equipment From Coach Yard, Train Ahead
ĊA	Amtrak Engineering	Q	Late Issuance of Track Warrant
CC	Scheduled Track Work	Q1	Late Issuance of Track Warrant, Train Ahead
CF	M of W Caused Mechanical Malfunction	R	Human Error, Transportation
CG	Scheduled Signal Work	RA	Human Error, Amtrak Transportation
СН	Contractor Failure	RD	Human Error, Metra Dispatcher
CO	Scheduled Wire Work	RF	Freight Dispatcher/Opr/Non-Freight Train Error
CW	M of W Work, Weather	RL	Human Error, Job Action/Employee No Show
C1	M of W Work, Train Ahead	RO	Human Error, Metra Operator
D	Freight Train Interference	RS	Human Error, NICTD Transportation
DD	Freight Dispatcher/Opr/Freight Train Error	RW	Human Error, Transportation, Weather
DW	Freight Train Interference, Weather	R1	Human Error, Transportation, Train Ahead
D1	Freight Train Interference, Weather	S	Operational (Efficiency) Testing
E	Locomotive Malfunction	S S1	Operational (Efficiency) Testing, Train Ahead
EA	Amtrak Locomotive Malfunction	T	
EA EW		T TG	Property Vandalism Vandalism of Gates
Ew E1	Locomotive Malfunction, Weather Locomotive Malfunction, Train Ahead	T0 T1	
F	Cab Car/Trailer/MU Malfunction	U	Property Vandalism, Train Ahead
г FA	Amtrak Car Malfunction	U UF	Accessibility Related (ADA) ADA Lift Failure
FW		UW	
гw F1	Cab Car/TRL/MU Malfunction, Weather Cab Car/TRL/MU Malfunction, Train Ahead	U w U1	Accessibility, Weather
		V	Accessibility, Train Ahead
G	Signal/Switch Malfunction		Mechanical Problem Reported, Nothing Found
GA	Signal/Switch Failure Amtrak	V1	Mech. Prob., Nothing Found, Train Ahead
GW CV	Signal/Switch Malfunction Weather	W WW	Gas Leak
GX C1	Broken Gate Crossing		Gas Leak, Weather
G1	Signal/Switch Malfunction, Train Ahead	W1	Gas Leak, Train Ahead
H	Human Error, Mechanical Department	XA	Train Annulled - Amtrak
HS	Human Error, NICTD Mechanical Dept.	XB	Train Annulled - Engineering Dept.
HW	Human Error, Mech. Dept., Weather	XD	Train Annulled - Freight Interference
H1	Human Error, Mech. Dept., Train Ahead	XE	Train Annulled - Engine Failure
I	Passenger Handling, Running Time	XF	Train Annulled - B/O Car
IB	Passenger Handling, Bicycle	XG	Train Annulled - Signal Dept.
IW	Passenger Handling, Weather	XH	Train Annulled - Mechanical Dept.
I1	Passenger Handling, Train Ahead	XJ	Train Annulled - Passenger Problem/Removal
J	Passenger Problems/Removal	XK	Train Annulled - Obstruction
JA	Amtrak Passenger Problems/Removal	XL	Train Annulled - Unauthorized People On Trk
J1 V	Passenger Problems/Removal Train Ahead	XM	Train Annulled - Right of Way Accident/Misc.
K	Obstruction On Tracks	XN	Train Annulled - ComEd Problem
KD	Obstruction On Tracks, Debris	XO	Train Annulled - AC/DC Failure
KP	Suspicious Package(s)/Person(s)/Activity	XQ	Train Annulled - No Track Warrant
KW	Obstruction On Tracks, Weather	XR	Train Annulled - Transportation Dept.
K1	Obstruction On Tracks, Train Ahead	XT	Train Annulled - Vandalism
L	Unauthorized People On Tracks/Near Miss	XV	Train Annulled - Mech. Problem, Nothing Found
L1	Unauthorized People On Tracks, Train Ahead	XW	Train Annulled - Gas Leak

11/07/07 version

 $P: ONTIME \ OownloadFrom TOPS \ \ \ \ Delay_ImportInstructions_\&_Codes_07.xls] Incident Code Table 08/15/2008$

CATEGORY CATEGORY										
	Definition		Definition							
1	PASSENGER TRAIN INTERFERENCE	13	HUMAN ERROR							
A1	Pass. Train Interference, Train Ahead	B1	Human Error, Eng. Dept. Train Ahead							
А	Passenger Train Interference	В	Human Error, Eng. Dept.							
AA	Rule 9.9 Delayed in Block/Rule 6.30	BA	Amtrak Engineering Human Error							
AD	Non-Revenue Passenger Train Interference	H1	Human Error, Mech. Dept., Train Ahead							
AM	Amtrak Caused Delay	Н	Human Error, Mechanical Department							
AS	NICTD Train Interference	HS	Human Error, NICTD Mechanical Dept.							
P1	Late Equipment From Coach Yard, Train Ahead	R1	Human Error, Transportation, Train Ahead							
Р	Late Equipment From Coach Yard	R	Human Error, Transportation							
XA	Train Annulled - Amtrak	RA	Human Error, Amtrak Transportation							
2&3	FREIGHT INTERFERENCE	RD	Human Error, Metra Dispatcher							
D1	Freight Train Interference, Train Ahead	RF	Freight Dispatcher/Opr/Non-Freight Train Error							
D	Freight Train Interference	RL	Human Error, Job Action/Employee No Show							
DD	Freight Dispatcher/Opr/Freight Train Error	RO	Human Error, Metra Operator							
XD	Train Annulled - Freight Interference	RS	Human Error, NICTD Transportation							
4	ACCIDENT	XB	Train Annulled - Engineering Dept.							
M1	Right of Way Accident/Misc., Train Ahead	XH	Train Annulled - Mechanical Dept.							
М	Right of Way Accident/Misc.	XR	Train Annulled - Transportation Dept.							
XM	Train Annulled - Right of Way Accident/Misc.	14	SICK, INJURED, UNRULY PASSENGER							
5	PASSENGER LOADING	J1	Passenger Problems/Removal Train Ahead							
I1	Passenger Handling, Train Ahead	J	Passenger Problems/Removal							
Ι	Passenger Handling, Running Time	JA	Amtrak Passenger Problems/Removal							
IB	Passenger Handling, Bicycle	XJ	Train Annulled - Passenger Problem/Removal							
6	LIFT DEPLOYMENT	15	WEATHER							
U1	Accessibility, Train Ahead	AW	Pass. Train Interference, Weather							
U	Accessibility Related (ADA)	BW	Human Error, Eng. Dept. Weather							
UF	ADA Lift Failure	CW	M of W Work, Weather							
7	OBSTRUCTION/DEBRIS	DW	Freight Train Interference, Weather							
K1	Obstruction On Tracks, Train Ahead	EW	Locomotive Malfunction, Weather							
K	Obstruction On Tracks	FW	Cab Car/TRL/MU Malfunction, Weather							
KD	Obstruction On Tracks, Debris	GW	Signal/Switch Malfunction Weather							
KP	Suspicious Package(s)/Person(s)/Activity	HW	Human Error, Mech. Dept., Weather							
XK	Train Annulled - Obstruction	IW	Passenger Handling, Weather							
8	SIGNAL/SWITCH FAILURE	KW	Obstruction On Tracks, Weather							
G1	Signal/Switch Malfunction, Train Ahead	MW	Right of Way Accident/Misc., Weather							
G	Signal/Switch Malfunction	NW	ComEd Failure, Weather							
GA	Signal/Switch Failure Amtrak	OW	AC/DC System Failure, Weather							
GX	Broken Gate Crossing	PW	Late Equipment From Coach Yard, Weather							
XG 9	Train Annulled - Signal Dept.	RW UW	Human Error, Transportation, Weather							
-	TRACK WORK	-	Accessibility, Weather							
C1 C	M of W Work, Train Ahead M of W Work	WW 16	Gas Leak, Weather OTHER							
CA	Amtrak Engineering	10 L1	Unauthorized People On Tracks, Train Ahead							
CC	Scheduled Track Work	L	Unauthorized People On Tracks, Train Aread							
CF	M of W Caused Mechanical Malfunction	N1	ComEd Failure, Train Ahead							
CG	Scheduled Signal Work	N	ComEd Failure							
СН	Contractor Failure	Q1	Late Issuance of Track Warrant, Train Ahead							
10	CATENARY FAILURE	Q	Late Issuance of Track Warrant							
CO	Scheduled Wire Work	S1	Operational (Efficiency) Testing, Train Ahead							
01	AC/DC System Failure, Train Ahead	S	Operational (Efficiency) Testing							
0	AC/DC System Failure	T1	Property Vandalism, Train Ahead							
xo	Train Annulled - AC/DC Failure	Т	Property Vandalism							
11	NON-LOCOMOTIVE EQUIPMENT FAILURE	TG	Vandalism of Gates							
F1	Cab Car/TRL/MU Malfunction, Train Ahead	V1	Mech. Prob., Nothing Found, Train Ahead							
F	Cab Car/Trailer/MU Malfunction	V	Mechanical Problem Reported, Nothing Found							
FA	Amtrak Car Malfunction	W1	Gas Leak, Train Ahead							
XF	Train Annulled - B/O Car	W	Gas Leak							
12	LOCOMOTIVE FAILURE	XL	Train Annulled - Unauthorized People On Trk							
E1	Locomotive Malfunction, Train Ahead	XN	Train Annulled - ComEd Problem							
E	Locomotive Malfunction	XQ	Train Annulled - No Track Warrant							
EA	Amtrak Locomotive Malfunction	XT	Train Annulled - Vandalism							
XE	Train Annulled - Engine Failure	XV	Train Annulled - Mech. Problem, Nothing Found							
	0	XW	Train Annulled - Gas Leak							
L	7 version	1								

TABLE 5: DELAY CODES SORTED BY CAUSE CATEGORY

11/07/07 version

 $P: \verb|ONTIME\DownloadFromTOPS\[\#Delay_ImportInstructions_\&_Codes_07.xls] instructions_\&_codes \\ 08/15/2008$

WEEKDAY	1	2	3	6	7	8	9	10	13	14	15	16	17	20	21	22	23	24	27	28	29	30	31	TOTAL
	We	Th	Fr	Mo	Tu	We	Th	Fr	Mo	Tu	We	Th	Fr	Mo	Tu	We	Th	Fr	Mo	Tu	We	Th	Fr	
BNSF	3	4	22	3	21	9	12	8	1	0	5	2	10	13	1	3	1	4	2	10	4	14	13	165
Elec -ML	2	2	4	0	0	1	0	2	0	1	1	1	2	0	0	0	0	0	0	19	0	2	1	38
-BI	0	0	0	0	1	0	1	0		2	1	1	1	0	0	0	1	0	2	3	1	1	2	17
-SC	0	0	0	0	1	1	0	0	0	2	0	0	0	1	1	0	1	2	2	0	0	0	0	11
Heritage	0	1	2	0	1	0	0	2	0	0	0	4	0	1	1	0	0	0	0	3	0	0	0	15
Milw -N	3	2	3	0	0	1	0	2	3	0	2	2	1	5	1	1	0	2	0	7	2	3	2	42
-W	1	0	0	3	0	0	0	0	0	1	0	0	0	1	0	2	0	7	1	0	9	2	2	29
NCS	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	5	1	0	1	0	0	10
RI	4	6	0	2	1	1	4	0	3	4	5	1	1	1	5	3	11	2	3	1	5	11	51	125
SWS	2	1	3	3	3	3	2	1	1	1	3	4	2	1	1	4	1	3	3	5	3	0	4	54
UP -N	0	0	2	2	8	4	7	3	4	2	2	2	3	0	1	3	4	5	1	6	2	1	7	69
-NW	0	0	0	0	3	1	1	4	1	1	0	12	2	7	6	0	6	0	0	2	0	1	1	48
-W	<u>1</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>10</u>	<u>10</u>	<u>3</u>	<u>11</u>	<u>4</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>9</u>	<u>3</u>	<u>17</u>	<u>4</u>	<u>4</u>	<u>2</u>	<u>3</u>	<u>14</u>	<u>2</u>	<u>1</u>	<u>116</u>
SYSTEM	16	20	37	15	41	32	37	25	24	18	23	32	25	40	20	33	29	34	17	59	41	37	84	739
SATURDAY	4	11	18	25		Т	TOT.	AL			SU	JND	AY/	HO	LID	AY	5	12	19	26				TOTAL
BNSF	2	0	0	0				2			BN	SF					0	0	2	0				2
Elec -ML	0	0	2	2				4			El	ec	-ML				1	2	2	0				5
-BI	0	0	0	0				0					-BI				-	-	-	-				-
-SC	0	4	2	1				7					-SC				0	0	0	1				1
Heritage	-	-	-	-				-			He	eritaș	ge				-	-	-	-				-
Milw -N	1	2	2	2				7			Mi	ilw	-N				0	0	0	0				0
-W	0	2	1	0				3					-W				0	0	0	0				0
NCS	-	-	-	-				-			N	CS					-	-	-	-				-
		1	2	1				4			RI						0	2	0	0				0 2
RI	0	1									~													
RI SWS	0	-	-	-				-			SV	vs					-	-	-	-				-
SWS	0 - 4	- 2	-0	- 0				-					-N				-	-2	-	-				-
	-	-	- 0 3	- 0 0				- 6 3			SV UH)	-N -NW	7			0 0	- 2 1	0 0	2 0				- 4 1
SWS UP -N	-	-2		0										7										- 4 1 <u>10</u>

TABLE 6: NUMBER OF DELAYS BY DATEOctober 2008

Data is final (11/14/08) version from TOPS.

 $\label{eq:ontime} \ensuremath{\texttt{P:}\ensuremath{P:}\ensuremath{\texttt{P:}\ensuremath{P:}\ensuremath{P:}\ensurema$

TABLES 7.a, 7.b & 7.c: FREQUENCY OF TRAIN DELAYS BY CAUSE AND LINE

October	2008
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		I	Electric			Mil	w				Un	ion Pacifi	ic	
CAUSE CATEGORY	BNSF	ML	BI	SC	HER	Ν	W	NCS	RI	SWS	Ν	NW	W	SYSTEM
Passenger Train Interference	1	5	1	0	0	1	1	0	3	1	8	2	2	25
Freight Interference - Peak	17	0	0	0	7	1	1	1	3	6	4	0	3	43
Freight Interference - Off-Peak	11	0	0	0	0	6	4	0	7	20	4	0	39	91
Freight Interference - Total	28	0	0	0	7	7	5	1	10	26	8	0	42	134
Accident	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Passenger Loading	21	2	11	2	0	1	1	0	6	0	42	2	4	92
Lift Deployment	2	0	0	0	0	3	0	0	2	0	1	3	1	12
Obstruction/Debris	0	0	0	0	0	0	8	5	3	3	0	2	3	24
Signal/Switch Failure	31	6	0	3	8	17	1	2	13	2	1	11	11	106
Track Work	27	23	3	6	0	4	3	0	11	11	3	2	29	122
Catenary Failure	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Non-Locomotive Equipment Failure	14	0	1	3	0	1	1	0	1	0	0	0	0	21
Locomotive Failure	6	0	0	0	0	3	0	0	15	3	0	0	4	31
Human Error	14	3	0	0	0	8	9	1	7	4	5	5	22	78
Sick, Injured, Unruly Passenger	6	3	0	3	0	2	3	1	4	1	8	10	2	43
Weather	4	2	1	0	0	0	0	0	0	0	3	0	1	11
Other	15	3	0	0	0	2	0	0	56	3	0	15	13	107
TOTAL TRAINS DELAYED	169	47	17	19	15	49	32	10	131	54	79	52	136	810

October - Average Over Previous Five Years: 2003-2007

		Electric				Mil	w				Un	ion Pacifi	ic	
CAUSE CATEGORY	BNSF	ML	BI	SC	HER	Ν	W	NCS	RI	SWS	Ν	NW	W	SYSTEM
Passenger Train Interference	4	1	1	0	0	6	3	3	2	0	1	0	1	23
Freight Interference - Peak	14	0	0	0	6	2	3	2	2	5	0	2	13	48
Freight Interference - Off-Peak	9	0	0	0	0	9	3	3	3	8	0	3	24	63
Freight Interference - Total	22	0	0	0	6	11	5	5	6	14	0	5	37	111
Accident	7	2	0	2	0	2	1	0	1	0	10	5	1	31
Passenger Loading	5	5	2	0	0	4	2	0	8	0	4	3	2	35
Lift Deployment	1	0	0	0	0	4	1	1	3	0	0	1	2	15
Obstruction/Debris	9	2	0	4	0	7	7	1	5	0	6	8	5	55
Signal/Switch Failure	18	4	1	1	1	10	8	6	5	3	1	3	4	64
Track Work	7	5	1	11	0	8	5	2	16	2	4	3	3	67
Catenary Failure	0	3	1	2	0	0	0	0	1	0	0	0	0	7
Non-Locomotive Equipment Failure	2	1	1	0	0	1	1	0	3	0	2	0	1	13
Locomotive Failure	3	0	0	0	0	4	2	0	11	1	1	2	2	27
Human Error	9	3	1	1	0	5	4	1	27	2	2	7	2	66
Sick, Injured, Unruly Passenger	2	3	0	1	0	1	2	1	1	1	3	4	2	22
Weather	9	7	4	2	0	0	2	1	11	5	3	2	2	49
Other	6	3	0	1	0	1	1	0	2	0	4	4	4	28
TOTAL TRAINS DELAYED	105	40	13	26	9	63	45	22	102	29	41	47	69	611

October 2008 Divergence From October Average Over Previous Five Years

]	Electric			Mil	w				Un	ion Pacifi	ic	
CAUSE CATEGORY	BNSF	ML	BI	SC	HER	Ν	W	NCS	RI	SWS	Ν	NW	W	SYSTEM
Passenger Train Interference	-3	4	0	0	0	-5	-2	-3	1	1	7	2	1	2
Freight Interference - Peak	3	0	0	0	1	-1	-2	-1	1	1	4	-2	-10	-5
Freight Interference - Off-Peak	2	0	0	0	0	-3	1	-3	4	12	4	-3	15	28
Freight Interference - Total	6	0	0	0	1	-4	0	-4	4	12	8	-5	5	23
Accident	-7	-2	0	-2	0	-2	-1	0	-1	0	-10	-5	1	-29
Passenger Loading	16	-3	9	2	0	-3	-1	0	-2	0	38	-1	2	57
Lift Deployment	1	0	0	0	0	-1	-1	-1	-1	0	1	2	-1	-3
Obstruction/Debris	-9	-2	0	-4	0	-7	1	4	-2	3	-6	-6	-2	-31
Signal/Switch Failure	13	2	-1	2	7	7	-7	-4	8	-1	0	8	7	42
Track Work	20	18	2	-5	0	-4	-2	-2	-5	9	-1	-1	26	55
Catenary Failure	0	-3	-1	0	0	0	0	0	-1	0	0	0	0	-5
Non-Locomotive Equipment Failure	12	-1	0	3	0	0	0	0	-2	0	-2	0	-1	8
Locomotive Failure	3	0	0	0	0	-1	-2	0	4	2	-1	-2	2	4
Human Error	5	0	-1	-1	0	3	5	0	-20	2	3	-2	20	12
Sick, Injured, Unruly Passenger	4	0	0	2	0	1	1	0	3	0	5	6	0	21
Weather	-5	-5	-3	-2	0	0	-2	-1	-11	-5	0	-2	-1	-38
Other	9	0	0	-1	0	1	-1	0	54	3	-4	11	9	79
TOTAL TRAINS DELAYED	64	7	4	-7	6	-14	-13	-12	29	25	38	5	67	199

Data for current month is final (11/14/08) version from TOPS.

 $P:\label{eq:loss} P:\label{eq:loss} P:\label{e$

TABLES 8.a & 8.b: FREQUENCY OF TRAIN DELAYS BY CAUSE & MONTH

CAUSE CATEGORY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan -	• Oct
Passenger Train Interference	30	30	17	7	3	6	8	4	47	25			177	2.5%
Freight Interference - Peak	29	38	27	30	17	35	28	23	48	43			318	4.4%
Freight Interference - Off-Peak	71	81	78	51	46	39	47	59	87	91			650	9.1%
Freight Interference - Total	100	119	105	81	63	74	75	82	135	134			968	13.5%
Accident	81	33	36	34	57	44	11	16	39	2			353	4.9%
Passenger Loading	72	76	80	22	62	193	203	188	78	92			1,066	14.9%
Lift Deployment	24	14	18	20	15	15	16	26	16	12			176	2.5%
Obstruction/Debris	46	55	18	21	10	40	30	7	15	24			266	3.7%
Signal/Switch Failure	174	99	124	128	83	94	90	108	149	106			1,155	16.2%
Track Work	19	11	24	54	35	73	61	67	52	122			518	7.2%
Catenary Failure	16	2	5	0	2	0	0	1	9	2			37	0.5%
Non-Locomotive Equipment Failure	55	15	10	9	6	14	14	15	12	21			171	2.4%
Locomotive Failure	39	44	34	45	9	24	43	41	32	31			342	4.8%
Human Error	57	58	39	30	46	52	65	77	39	78			541	7.6%
Sick, Injured, Unruly Passenger	43	25	18	21	20	29	38	20	21	43			278	3.9%
Weather	173	277	32	10	10	23	29	131	25	11			721	10.1%
Other	25	43	22	39	19	33	15	22	54	107			379	5.3%
TOTAL TRAINS DELAYED	954	901	582	521	440	714	698	805	723	810			7,148	100%

Data for current month is final (11/14/08) version from TOPS.

CAUSE CATEGORY Feb May Jun Jan Mar Apr Jul Aug Sep Oct Nov Dec Jan - Oct Passenger Train Interference 2.6% Freight Interference - Peak 3.9% Freight Interference - Off-Peak 9.5% Freight Interference - Total 13.4% Accident 3.4% Passenger Loading 12.2% Lift Deployment 1.6% Obstruction/Debris 4.4% Signal/Switch Failure 13.0% Track Work 10.2% Catenary Failure 0.7% Non-Locomotive Equipment Failure 1.7% Locomotive Failure 4.2% Human Error 10.0% Sick, Injured, Unruly Passenger 3.7% Weather 1,019 14.0% Other 4.8% TOTAL TRAINS DELAYED 1,354 1,046 7,273 100%

P:\ONTIME\report\[DelaysByCause16Cats.xls]AllMonths 11/14/2008

			Mil	W				Un	ion Pacif	ïc	
	BNSF	HER	Ν	W	NCS	RI	SWS	Ν	NW	W	SYSTEM
Nov-06	60	5	16	4	6	1	15	6	3	46	162
Dec-06	43	1	13	9	4	5	20	0	3	56	154
Jan-07	24	0	2	0	9	3	3	0	4	28	73
Feb-07	23	5	19	16	5	10	8	2	5	40	133
Mar-07	26	8	21	9	13	3	7	0	4	35	126
Apr-07	18	6	13	16	12	6	7	0	5	26	109
May-07	12	6	3	3	11	5	11	1	1	42	95
Jun-07	13	6	6	7	9	4	8	1	2	52	108
Jul-07	7	3	9	2	3	5	8	1	1	26	65
Aug-07	9	4	7	4	3	9	13	1	2	47	99
Sep-07	4	3	16	8	10	5	6	5	0	30	87
Oct-07	10	5	14	3	10	1	13	1	2	18	77
Total	249	52	139	81	95	57	119	18	32	446	1,288
Nov-07	16	3	12	4	1	2	14	3	25	20	100
Dec-07	2	3	14	5	8	9	12	1	1	34	89
Jan-08	24	4	11	2	3	11	10	3	11	21	100
Feb-08	17	9	4	8	9	7	8	8	12	36	118
Mar-08	10	14	8	3	2	2	16	3	6	41	105
Apr-08	4	5	8	15	6	4	18	0	2	19	81
May-08	10	5	10	2	2	6	11	3	0	14	63
Jun-08	8	4	9	7	17	8	10	0	4	7	74
Jul-08	12	4	10	5	4	9	6	2	3	20	75
Aug-08	15	6	10	3	3	5	12	2	1	25	82
Sep-08	35	4	8	2	7	9	17	3	8	42	135
Oct-08	28	7	7	5	1	10	26	8	0	42	134
Total	181	68	111	61	63	82	160	36	73	321	1,156

TABLE 9: FREIGHT DELAYS ON METRA DIESEL LINESbetween November 2006 and October 2008

Data for current month is final (11/14/08) version from TOPS.

P:\ONTIME\report\[DelaysByCause16Cats.xls]Freight- YTD, 2 yrs 11/14/2008

LINE	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Lift Delays YTD	% of All Delays YTD
BNSF	1	1	3	0	0	1	0	0	0	2			8	0.69%
Electric ML	0	0	0	0	0	0	0	0	1	0			1	0.24%
Electric BI	0	0	0	0	0	0	0	0	0	0			0	0.00%
Electric SC	0	0	0	0	0	0	0	0	0	0			0	0.00%
HER	0	0	0	0	0	0	0	1	0	0			1	0.72%
Milw N	2	0	3	4	6	1	8	12	2	3			41	5.62%
Milw W	1	2	2	1	1	3	8	3	1	0			22	4.72%
NCS	2	1	0	2	1	0	0	1	2	0			9	4.05%
RI	9	4	5	0	5	6	0	4	3	2			38	5.81%
SWS	0	0	0	1	0	0	0	0	0	0			1	0.31%
UP N	3	2	2	0	0	1	0	1	3	1			13	1.12%
UP NW	3	3	2	9	0	3	0	2	2	3			27	3.87%
UP W	3	1	1	3	2	0	0	2	2	1			15	1.73%
Total Lift Delays	24	14	18	20	15	15	16	26	16	12			176	2.46%
ALL DELAYS		-			-		-			-				7,148

TABLES 10.a & 10.b: FREQUENCY OF LIFT-DEPLOYMENT TRAIN DELAYS BY LINE & MONTH

2008

Data for current month is final (11/14/08) version from TOPS.

LINE	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Lift Delays All Year	% of All Delays All Year
BNSF	1	1	1	2	2	0	0	1	2	0	0	2	12	1.07%
Electric ML	0	0	0	0	0	0	1	0	0	0	0	0	1	0.13%
Electric BI	0	0	0	0	0	0	0	0	0	1	0	0	1	0.52%
Electric SC	0	1	0	0	0	0	0	1	0	0	0	0	2	0.56%
HER	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Milw N	1	3	4	1	3	6	3	0	0	7	3	5	36	3.20%
Milw W	1	2	0	3	0	0	3	1	0	0	1	2	13	1.79%
NCS	0	3	1	0	0	0	1	0	0	0	0	0	5	1.64%
RI	4	3	1	1	2	8	4	3	2	0	2	5	35	3.13%
SWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
UP N	1	9	0	1	1	0	0	1	1	0	0	0	14	1.58%
UP NW	0	0	1	0	2	1	0	0	0	0	0	2	6	0.80%
UP W	1	4	1	0	1	1	2	2	2	3	4	3	24	2.36%
Total Lift Delays	9	26	9	8	11	16	14	9	7	11	10	19	149	1.70%
ALL DELAYS														8,772

2007

 $P:\ONTIME\report\[DelaysByCause16Cats.xls]\LiftUseByLine\&Month 11/14/2008$

Minutes	BNSF]	Electric		Her	Milwa	ukee	NCS	RI	SWS		UP		System
		ML	BI	SC	-	Ν	W				Ν	NW	W	-
Peak *														
6-10	59	18	6	1	5	16	8	2	33	8	13	17	19	205
11-15	20	4	0	0	4	2	1	4	13	2	6	9	12	77
16-20	15	2	0	0	1	1	5	1	9	1	1	6	4	46
21+	17	0	0	1	5	1	6	1	6	5	2	0	7	51
Annulled	<u>5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>5</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>12</u>
Sub-Total	116	24	6	2	15	20	20	8	66	16	23	32	43	391
Off-Peak *	*													
6-10	24	13	10	8	0	16	6	1	44	18	36	10	32	218
11-15	18	2	1	3	0	8	3	1	10	11	14	1	20	92
16-20	7	2	0	2	0	2	1	0	2	6	5	1	23	51
21+	4	6	0	3	0	3	2	0	9	3	1	5	17	53
Annulled	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>3</u>	<u>1</u>	<u>5</u>
Sub-Total	53	23	11	17	0	29	12	2	65	38	56	20	93	419
October 20	08 Total													
6-10	83	31	16	9	5	32	14	3	77	26	49	27	51	423
11-15	38	6	1	3	4	10	4	5	23	13	20	10	32	169
16-20	22	4	0	2	1	3	6	1	11	7	6	7	27	97
21+	21	6	0	4	5	4	8	1	15	8	3	5	24	104
Annulled	<u>5</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>5</u>	<u>0</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>17</u>
TOTAL	169	47	17	19	15	49	32	10	131	54	79	52	136	810
Year-to-Da	te													
6-10	545	218	76	106	66	349	210	102	402	157	681	319	387	3,618
11-15	231	63	18	34	34	179	112	54	115	65	208	146	193	1,452
16-20	129	39	9	15	13	54	43	19	56	44	118	93	103	735
21+	201	88	21	32	22	123	80	44	66	57	128	125	156	1,143
Annulled	<u>46</u>	<u>6</u>	<u>1</u>	<u>7</u>	<u>4</u>	<u>25</u>	<u>21</u>	<u>3</u>	<u>15</u>	<u>3</u>	<u>28</u>	<u>14</u>	<u>27</u>	<u>200</u>
TOTAL	1,152	414	125	194	139	730	466	222	654	326	1,163	697	866	7,148
		PER	CENT	COMP	OSITIC	ON OF E	DELAY	S BY R	ANGE	OF DU	RATIO	N		

TABLE 11: FREQUENCY OF TRAIN DELAYS BY DURATION October 2008

PERCENT COMPOSITION OF DELAYS BY RANGE OF DURATION

Minutes	BNSF		Electric		Her	Milwa	aukee	NCS	RI	SWS		UP		System
		ML	BI	SC		Ν	W				Ν	NW	W	
October 20	08 Total													
6-10	49.1%	66.0%	94.1%	47.4%	33.3%	65.3%	43.8%	30.0%	58.8%	48.1%	62.0%	51.9%	37.5%	52.2%
11-15	22.5%	12.8%	5.9%	15.8%	26.7%	20.4%	12.5%	50.0%	17.6%	24.1%	25.3%	19.2%	23.5%	20.9%
16-20	13.0%	8.5%	0.0%	10.5%	6.7%	6.1%	18.8%	10.0%	8.4%	13.0%	7.6%	13.5%	19.9%	12.0%
21+	12.4%	12.8%	0.0%	21.1%	33.3%	8.2%	25.0%	10.0%	11.5%	14.8%	3.8%	9.6%	17.6%	12.8%
Annulled	<u>3.0%</u>	0.0%	0.0%	<u>5.3%</u>	0.0%	0.0%	0.0%	0.0%	<u>3.8%</u>	0.0%	1.3%	<u>5.8%</u>	1.5%	<u>2.1%</u>
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Year-to-Da	te													
6-10	47.3%	52.7%	60.8%	54.6%	47.5%	47.8%	45.1%	45.9%	61.5%	48.2%	58.6%	45.8%	44.7%	50.6%
11-15	20.1%	15.2%	14.4%	17.5%	24.5%	24.5%	24.0%	24.3%	17.6%	19.9%	17.9%	20.9%	22.3%	20.3%
16-20	11.2%	9.4%	7.2%	7.7%	9.4%	7.4%	9.2%	8.6%	8.6%	13.5%	10.1%	13.3%	11.9%	10.3%
21+	17.4%	21.3%	16.8%	16.5%	15.8%	16.8%	17.2%	19.8%	10.1%	17.5%	11.0%	17.9%	18.0%	16.0%
Annulled	<u>4.0%</u>	1.4%	0.8%	<u>3.6%</u>	<u>2.9%</u>	<u>3.4%</u>	<u>4.5%</u>	1.4%	<u>2.3%</u>	<u>0.9%</u>	2.4%	2.0%	<u>3.1%</u>	<u>2.8%</u>
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

*Includes peak direction trains operating during weekday peak periods. **Includes all other weekday and weekend trains. Data for most recent month is final (11/14/08) version from TOPS.

> 11/18/2008

TABLE 12: AVERAGE LENGTH OF DELAY BY SERVICE PERIOD, IN MINUTES

October 20

	BNSF	Electric		Her	Milwa	aukee	NCS	RI	SWS		UP		System	
		ML	BI	SC		Ν	W				Ν	NW	W	
Peak *	14.1	9.3	8.0	17.0	17.7	12.4	15.8	15.5	11.8	19.3	11.6	11.1	13.4	13.3
Off-Peak **	12.7	17.7	7.7	17.2		13.4	12.0	11.0	12.5	12.1	10.6	15.2	16.3	13.6
All	13.7	13.4	7.8	17.2	17.7	13.0	14.3	14.6	12.2	14.2	10.9	12.5	15.4	13.4
Year-to-Dat	te													

	BNSF]	Electric			Milwa	nukee	NCS	RI	SWS		UP		System
		ML	BI	SC		Ν	W				Ν	NW	W	
Peak *	17.5	16.8	18.2	13.4	13.7	17.0	14.0	16.2	12.3	13.6	13.3	20.2	13.9	15.7
Off-Peak **	16.6	15.5	13.9	14.4		16.3	15.3	18.0	11.6	15.6	12.8	17.9	16.7	15.2
All	17.1	16.2	15.6	14.2	13.7	16.5	14.7	16.9	11.9	15.0	12.9	19.0	15.7	15.4

Excludes annulled trains, which do not have delay times.

*Includes peak direction trains operating during weekday peak periods. **Includes all other weekday and weekend trains. Data for most recent month is final (11/14/08) version from TOPS.

 $P:\label{eq:ontime} P:\label{eq:ontime} P:\l$