

COMMUTER RAIL SYSTEM
ON-TIME PERFORMANCE REPORT

April 2009



COMMUTER RAIL ON-TIME PERFORMANCE

April 2009

This report presents an analysis of the April 2009 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 April 2009, Metra operated 17,281 scheduled trains, including 'extras'. 412 of these trains were delayed (late or annulled), representing an on-time performance rate of 97.6%. Table 2 lists on-time percentages by line for each month and year since 2004. Table 3 lists each train that was on time for less than 85% of its weekday runs in April 2009, 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 April 2009.

Table 7.a shows the frequency of train delays by delay-cause category and by line during April 2009. Table 7.b shows the average frequencies over the previous five Aprils, and Table 7.c shows the differences between Table 7.a and Table 7.b. There were 412 delays systemwide in April 2009, 12 less than the average over the previous five Aprils. Table 8.a shows delays from the beginning of the year through April 2009. Table 8.b shows the average frequencies through April of each of the previous five years, and Table 8.c shows the differences between Table 8.a and Table 8.b. Tables 9.a and 9.b display the systemwide frequency of train delays by cause and by month, for 2009 and 2008 respectively. From January through April of 2009, a total of 2,775 trains were delayed, compared to 2,958 trains delayed in the same four months of 2008.

Table 10 shows, by line and month, all train delays caused by freight operations over the past 24 months. In April 2009 freight operations delayed 44 trains systemwide, compared to 81 a year earlier. Tables 11.a and 11.b display the frequency of lift-deployment train delays by line and month, for 2009 and 2008 respectively. A total of 8 trains were delayed by lift deployment in April 2009.

A review of April 2009 late trains by duration of delay is shown in Table 12. The range with the greatest number of delays was, as usual, six-to-ten minutes, accounting for 44.2% of all late trains. Table 13 shows that the average length of delay was 17.9 minutes in April 2009. It should be noted that these averages relate only to reportable delays (i.e., trains late by six minutes or more).

TABLE 1: SCHEDULED AND DELAYED TRAINS, AND ON-TIME PERFORMANCE BY SERVICE PERIOD AND LINE
April 2009

	Weekdays									Weekends						Total		
	Peak*			Off-Peak**			Total			Saturdays			Sundays & Holidays			Trains Scheduled	Trains Late	Percent On-Time
	Trains Scheduled	Trains Late	Percent On-Time	Trains Scheduled	Trains Late	Percent On-Time	Trains Scheduled	Trains Late	Percent On-Time	Trains Scheduled	Trains Late	Percent On-Time	Trains Scheduled	Trains Late	Percent On-Time			
BNSF	1,188	44	96.3%	882	25	97.2%	2,070	69	96.7%	112	7	93.8%	72	3	95.8%	2,254	79	96.5%
Elec -ML	987	3	99.7%	751	9	98.8%	1,738	12	99.3%	184	0	100.0%	80	1	98.8%	2,002	13	99.4%
-BI	308	1	99.7%	506	12	97.6%	814	13	98.4%	120	1	99.2%		--		934	14	98.5%
-SC	<u>374</u>	<u>3</u>	99.2%	<u>814</u>	<u>8</u>	99.0%	<u>1,188</u>	<u>11</u>	99.1%	<u>192</u>	<u>0</u>	100.0%	<u>80</u>	<u>2</u>	97.5%	<u>1,460</u>	<u>13</u>	99.1%
Subtotal	1,669	7	99.6%	2,071	29	98.6%	3,740	36	99.0%	496	1	99.8%	160	3	98.1%	4,396	40	99.1%
Heritage	132	2	98.5%		--		132	2	98.5%		--			--		132	2	98.5%
Milw -N	549	21	96.2%	771	46	94.0%	1,320	67	94.9%	96	0	100.0%	80	0	100.0%	1,496	67	95.5%
-W	<u>593</u>	<u>1</u>	99.8%	<u>683</u>	<u>9</u>	98.7%	<u>1,276</u>	<u>10</u>	99.2%	<u>96</u>	<u>1</u>	99.0%	<u>72</u>	<u>0</u>	100.0%	<u>1,444</u>	<u>11</u>	99.2%
Subtotal	1,142	22	98.1%	1,454	55	96.2%	2,596	77	97.0%	192	1	99.5%	152	0	100.0%	2,940	78	97.3%
NCS	242	12	95.0%	242	10	95.9%	484	22	95.5%		--			--		484	22	95.5%
RI	792	21	97.3%	705	22	96.9%	1,497	43	97.1%	80	8	90.0%	64	1	98.4%	1,641	52	96.8%
SWS	242	8	96.7%	418	20	95.2%	660	28	95.8%	24	0	100.0%		--		684	28	95.9%
UP -N	659	17	97.4%	881	17	98.1%	1,540	34	97.8%	104	4	96.2%	72	0	100.0%	1,716	38	97.8%
-NW	723	15	97.9%	705	14	98.0%	1,428	29	98.0%	96	2	97.9%	60	2	96.7%	1,584	33	97.9%
-W	<u>593</u>	<u>15</u>	97.5%	<u>705</u>	<u>20</u>	97.2%	<u>1,298</u>	<u>35</u>	97.3%	<u>80</u>	<u>5</u>	93.8%	<u>72</u>	<u>0</u>	100.0%	<u>1,450</u>	<u>40</u>	97.2%
Subtotal	1,975	47	97.6%	2,291	51	97.8%	4,266	98	97.7%	280	11	96.1%	204	2	99.0%	4,750	111	97.7%
SYSTEM	7,382	163	97.8%	8,063	212	97.4%	15,445	375	97.6%	1,184	28	97.6%	652	9	98.6%	17,281	412	97.6%

*Includes peak direction trains operating during weekday peak periods. **Includes all other weekday trains.

Delays data for most recent month is final (05/13/09) version from TOPS.

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TABLE 2: ON-TIME PERFORMANCE BY LINE/BRANCH

LINE	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN- APR	AVG
BNSF	2004	90.7	92.8	97.1	97.2	98.5	98.2	94.3	98.5	96.2	97.1	95.7	92.8	94.5%	95.8%
	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	96.1%	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	96.8%	95.0%
	2007	96.4	86.8	96.3	96.8	98.2	96.0	97.4	94.5	97.8	95.9	96.1	96.6	94.2%	95.8%
	2008	92.9	94.3	97.0	98.2	97.0	94.3	94.8	94.6	92.8	92.8	94.2	89.9	95.6%	94.4%
	2009	85.4	94.1	97.5	96.5									93.4%	93.4%
	2004-2008 average		94.2	93.2	96.6	97.6	97.2	95.5	96.1	95.3	95.4	94.9	94.5	92.9	95.5%
Electric	2004	97.8	98.8	98.8	99.5	98.9	98.0	99.0	98.7	98.2	98.6	98.9	98.8	98.7%	98.7%
	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	99.2%	98.7%
	2006	99.3	98.6	98.1	99.1	98.9	98.1	95.4	97.9	98.0	97.4	98.7	99.0	98.7%	98.2%
	2007	99.2	96.4	97.7	98.0	97.1	97.8	96.6	97.0	95.6	97.4	98.6	98.3	97.9%	97.5%
	2008	96.4	98.5	98.8	98.3	99.3	98.5	99.2	98.1	97.9	98.2	96.7	95.0	98.0%	97.9%
	2009	96.7	98.5	98.7	99.1									98.3%	98.3%
	2004-2008 average		98.2	98.3	98.6	98.8	98.6	97.8	97.8	98.2	97.8	98.1	98.3	97.9	98.5%
Heritage	2004	95.2	96.7	94.9	95.5	90.0	84.8	91.3	91.7	93.7	92.1	97.6	98.6	95.5%	93.5%
	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	95.5%	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	93.5%	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	89.6%	91.1%
	2008	93.9	89.7	83.3	87.2	89.7	92.9	91.7	86.5	88.2	89.1	93.0	78.6	88.6%	88.6%
	2009	79.4	91.7	91.7	98.5									90.4%	90.4%
	2004-2008 average		95.5	91.1	91.7	91.9	91.5	91.5	91.6	90.2	91.8	91.1	94.9	90.1	92.5%
Milw - N	2004	95.0	94.8	98.1	97.3	91.5	94.2	96.5	96.9	95.7	95.3	94.8	94.6	96.4%	95.4%
	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	95.4%	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	95.6%	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	93.9%	93.6%
	2008	96.1	92.6	96.4	95.8	95.6	95.0	93.3	93.1	95.8	96.9	92.9	84.4	95.2%	94.0%
	2009	85.9	97.3	97.1	95.5									93.9%	93.9%
	2004-2008 average		94.0	94.5	96.6	95.9	94.5	94.0	92.9	95.2	95.1	95.6	92.3	89.6	95.3%
Milw - W	2004	97.3	93.5	96.7	92.0	93.2	93.8	94.7	97.3	96.6	95.8	94.6	96.2	94.9%	95.2%
	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	95.2%	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	95.7%	96.0%
	2007	98.8	90.1	97.8	95.5	96.7	95.7	93.8	93.7	96.8	98.3	98.0	93.5	95.7%	95.8%
	2008	94.5	96.6	97.1	97.4	97.8	97.8	96.1	94.1	98.3	97.9	96.6	92.3	96.4%	96.4%
	2009	92.6	96.3	97.4	99.2									96.4%	96.4%
	2004-2008 average		94.8	95.0	96.7	95.8	96.6	96.0	94.8	94.8	97.0	97.0	95.9	93.1	95.6%
NCS	2004	96.2	89.0	94.8	85.0	91.5	83.6	85.7	91.8	93.8	92.4	90.5	92.6	91.3%	90.6%
	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	91.2%	90.2%
	2006	92.6	98.0	93.5	93.8	96.1	96.8	95.3	96.3	95.6	91.7	91.1	93.4	94.6%	94.5%
	2007	95.9	91.2	94.0	92.9	93.8	94.4	95.9	94.3	94.7	96.2	97.2	94.4	93.6%	94.6%
	2008	93.4	94.4	97.4	95.1	95.0	91.3	96.5	97.4	94.4	98.0	95.9	86.5	95.0%	94.6%
	2009	88.9	93.4	97.3	95.5									93.9%	93.9%
	2004-2008 average		93.8	94.1	94.3	92.3	94.9	91.8	94.0	94.7	94.0	94.8	92.6	90.7	93.6%

TABLE 2 (continued): ON-TIME PERFORMANCE BY LINE/BRANCH

LINE	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN- APR	AVG
RI	2004	96.0	98.5	97.6	98.4	99.0	97.9	97.7	98.6	97.3	98.0	96.8	95.8	97.6%	97.6%
	2005	96.6	98.6	97.9	98.0	96.3	93.7	94.2	97.4	93.8	86.5	91.8	91.6	97.8%	94.7%
	2006	95.9	97.1	96.8	97.5	96.3	96.7	94.4	97.1	96.8	95.7	97.4	94.2	96.8%	96.3%
	2007	96.0	84.0	96.4	98.4	96.1	93.9	92.0	94.3	95.8	97.1	95.2	90.9	93.9%	94.2%
	2008	95.5	95.6	94.5	98.8	97.6	96.4	96.5	96.9	95.8	92.3	96.3	89.3	96.1%	95.4%
	2009	93.4	97.5	96.2	96.8									95.9%	95.9%
	2004-2008 average	96.0	94.8	96.7	98.2	97.0	95.7	95.0	96.8	95.9	93.9	95.3	92.4	96.4%	95.7%
SWS	2004	95.8	97.8	95.7	98.0	93.4	92.9	96.1	95.2	94.9	95.2	96.1	96.7	96.8%	95.7%
	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	95.1%	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	95.0%	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	97.2%	96.5%
	2008	93.5	96.3	95.1	94.4	95.4	95.7	98.3	93.5	95.3	92.2	93.7	89.2	94.8%	94.4%
	2009	87.1	96.5	96.1	95.9									94.0%	94.0%
	2004-2008 average	95.2	95.1	96.4	96.4	95.1	95.7	95.9	93.8	93.4	93.4	95.3	92.7	95.8%	94.9%
UP - N	2004	98.6	99.1	99.4	99.5	98.5	98.2	98.6	96.7	98.4	95.9	96.8	96.6	99.2%	98.0%
	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	98.0%	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	98.1%	97.6%
	2007	98.0	92.8	97.9	98.5	97.4	93.9	93.5	89.8	96.8	97.6	96.8	92.6	96.9%	95.4%
	2008	91.9	89.4	95.1	95.5	97.1	90.9	92.2	89.9	93.5	95.6	95.2	94.2	93.0%	93.4%
	2009	91.4	98.0	96.9	97.8									96.0%	96.0%
	2004-2008 average	96.1	95.6	98.0	97.9	98.2	95.4	95.1	93.0	96.7	96.9	97.2	95.7	97.0%	96.3%
UP - NW	2004	97.6	98.8	98.9	98.6	97.9	98.2	98.3	98.5	97.3	95.5	97.1	96.2	98.5%	97.7%
	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	96.7%	96.9%
	2006	97.9	98.6	98.5	98.0	99.1	98.4	98.0	96.3	97.3	96.5	96.6	96.9	98.2%	97.7%
	2007	95.8	91.8	97.1	97.7	98.0	97.2	96.5	93.2	95.7	98.0	95.2	95.2	95.7%	96.0%
	2008	91.9	91.8	97.1	96.5	96.8	95.5	95.1	97.1	96.9	96.9	94.5	91.7	94.3%	95.2%
	2009	91.9	97.6	97.4	97.9									96.2%	96.2%
	2004-2008 average	95.3	95.7	97.8	97.8	98.1	97.1	97.3	96.0	97.2	97.1	95.9	95.2	96.7%	96.7%
UP - W	2004	95.5	97.4	96.2	97.7	98.5	96.0	95.7	95.8	94.2	93.0	91.9	91.1	96.7%	95.2%
	2005	91.7	97.0	96.8	98.1	94.1	92.7	95.3	92.2	96.4	94.9	95.0	92.7	95.9%	94.7%
	2006	91.7	93.7	96.0	94.2	94.2	95.6	96.1	94.8	95.1	96.0	94.9	93.8	93.9%	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	94.4%	94.1%
	2008	95.2	90.4	93.7	94.5	96.9	95.4	95.3	94.5	93.0	91.0	93.0	91.6	93.5%	93.7%
	2009	92.3	97.3	95.5	97.2									95.6%	95.6%
	2004-2008 average	94.0	94.0	95.3	96.2	95.6	94.7	95.6	93.6	94.4	94.3	94.3	92.0	94.9%	94.5%
SYSTEM (excluding South Shore)	2004	96.1	96.9	97.9	97.7	97.3	96.8	96.9	97.7	96.9	96.6	96.4	95.8	97.2%	96.9%
	2005	94.6	97.9	97.7	98.0	97.3	95.3	96.4	95.9	96.7	95.9	95.1	94.4	97.1%	96.3%
	2006	96.2	97.2	97.1	97.4	97.1	96.5	95.2	96.0	96.3	95.7	95.5	95.3	97.0%	96.3%
	2007	97.4	91.4	96.6	97.0	96.7	95.6	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	95.2	91.4	95.7%	95.4%
	2009	91.6	97.1	97.3	97.6									95.9%	95.9%
	2004-2008 average	95.8	95.6	97.2	97.4	97.2	96.0	95.9	95.8	96.3	96.1	95.7	94.2	96.5%	96.1%

Delays data for most recent month is final (05/13/09) version from TOPS.

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'2004-2008 average' calculated by summing the delays over the five years, summing the trains run over the five years, and calculating their ratio.

**TABLE 3: LIST OF WEEKDAY TRAINS LESS THAN 85% ON-TIME
April 2009**

Line	Train	Date	Minutes Delay		Delay Explanation	
			Late	Code		
MN	2155	Mon, Apr 13	25	G1	OPERATED AS TURN OF DELAYED #2156. 7" CREW SWAP W/DELAYED #2158 AT HEALY; 24" MEETING DELAYED #2160 OFF THE J LINE, RONDOUT.	
		77% OT	Wed, Apr 15	20	G1	20" WAITING FOR DELAYED #2160 TO CLEAR FOX LAKE SUB, RONDOUT.
			Fri, Apr 17	8	E1	8" LATE TURN OF DELAYED #2158, CUS.
			Wed, Apr 22	9	G	3" LATE TURN OF DELAYED #2158; 6" DARK SIGS, TOWER A2.
			Fri, Apr 24	21	C1	3" LATE TURN, CUS; 12" WAITING FOR #2160(NO DELAY GIVEN), RONDOUT; 6" S/O ENROUTE.
MN	2158	Mon, Apr 13	45	G	40" DELAYED AMTRAK #320/FLAGGING AND HAND-LINING SWITCHES, TWR A20; 5" CREW SWAP W/2155, HEALY.	
		77% OT	Fri, Apr 17	9	E1	10" WAITING FOR DELAYED #2149, GRAYSLAKE.
			Wed, Apr 22	14	G1	10" MEETING DELAYED #2149, GRAYSLAKE; 4" RULE 6.30 ENROUTE.
			Thu, Apr 23	7	CC	8" WAITING FOR #2149, GRAYSLAKE; 5" FRT X-TRAFFIC, CN XING.
			Fri, Apr 24	7	C1	10" WAITING FOR DEALYED #2149, GRAYSLAKE.
SWS	0822	Wed, Apr 01	7	K	7" SOUTH BRANCH BRIDGE OPEN.	
		77% OT	Thu, Apr 09	6	AM	6" S/O ACCT FOLLOWING AMTRAK #49, CP 518 TO 21ST.
			Fri, Apr 17	10	AM	7" WAITING FOR AMTRAK #851 TO X/O, CP 518; 7" RUNNING TIME FOLLOWING AMTRAK #851, CP 518 TO 21ST.
			Mon, Apr 27	13	GA	33" SOUTH BRANCH BRIDGE MALFUNCTION.
			Tue, Apr 28	27	U1	19" LATE TURN OF DELAYED #807; 11" FRT X-TRAFFIC Q156-28, FOREST HILL; 5" FLAGGED RED SIG, BRC; 4" RED SIG, CP 518; 10" MOW SCHEDULE.
SWS	0826	Wed, Apr 08	15	AM	15" AMTRAK YARD MOVE AHEAD, SOUTH BRANCH BRIDGE.	
		82% OT	Thu, Apr 16	12	RF	12" AWAITING MOW EQU WHICH DERAILED IN THE PLANT TO CLEAR ON IHB, CHICAGO RIDGE.
			Mon, Apr 27	8	GA	17" LATE TURN OF DELAYED #811; 1" NO REASON GIVEN.
			Wed, Apr 29	14	G	5" WAITING FOR LITE ENG TO CLEAR, CHICAGO RIDGE; 10" SWITCH PROBS, BELT JCT; 5" TALKED BY SIGNAL, CP 518.
UPN	0361	Fri, Apr 10	15	J	15" LOCAL POLICE REMOVED UNRULY PSGR, KENILWORTH.	
		77% OT	Wed, Apr 15	8	I	8" SLOW ENTRAINING/DETRAINING, RAVENSWOOD TO LAKE FOREST & LAKE BLUFF.
			Thu, Apr 16	10	I	10" HEAVY ENTRAINING/DETRAINING, CLYBOURN TO CENTRAL & BRAESIDE TO HIGHLAND PK.
			Thu, Apr 23	28	M1	28" FOLLOWING TRAINS ENROUTE; SLOW ENTRAINING/DETRAINING ALL STATIONS
			Mon, Apr 27	10	I	10" HEAVY ENTRAINING/DETRAINING ENROUTE.

Data is final (05/13/09) version from TOPS.

P:\ONTIME\report\[WeekdayTrainsBelow85%_table.xls]Original (2) 05/13/2009

TABLE 4: DELAY CODES AND DEFINITIONS

Code	Definition	Code	Definition
A	Passenger Train Interference	M	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	O	AC/DC System Failure
B	Human Error, Eng. Dept.	OW	AC/DC System Failure, Weather
BA	Amtrak Engineering Human Error	O1	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
C	M of W Work	P1	Late Equipment From Coach Yard, Train Ahead
CA	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
CH	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, Train Ahead	S	Operational (Efficiency) Testing
E	Locomotive Malfunction	S1	Operational (Efficiency) Testing, Train Ahead
EA	Amtrak Locomotive Malfunction	T	Property Vandalism
EW	Locomotive Malfunction, Weather	TG	Vandalism of Gates
E1	Locomotive Malfunction, Train Ahead	T1	Property Vandalism, Train Ahead
F	Cab Car/Trailer/MU Malfunction	U	Accessibility Related (ADA)
FA	Amtrak Car Malfunction	UF	ADA Lift Failure
FW	Cab Car/TRL/MU Malfunction, Weather	UW	Accessibility, Weather
F1	Cab Car/TRL/MU Malfunction, Train Ahead	U1	Accessibility, Train Ahead
G	Signal/Switch Malfunction	V	Mechanical Problem Reported, Nothing Found
GA	Signal/Switch Failure Amtrak	V1	Mech. Prob., Nothing Found, Train Ahead
GW	Signal/Switch Malfunction Weather	W	Gas Leak
GX	Broken Gate Crossing	WW	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	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\DownloadFromTOPS\[#Delay_ImportInstructions_& Codes_07.xls]Incident Code Table 08/15/2008

TABLE 5: DELAY CODES SORTED BY CAUSE CATEGORY

CATEGORY		CATEGORY	
Code	Definition	Code	Definition
1 PASSENGER TRAIN INTERFERENCE		13 HUMAN ERROR	
A1	Pass. Train Interference, Train Ahead	B1	Human Error, Eng. Dept. Train Ahead
A	Passenger Train Interference	B	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	H	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
P	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.
M	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
I	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	Train Annulled - Signal Dept.	RW	Human Error, Transportation, Weather
9 TRACK WORK		UW	Accessibility, Weather
C1	M of W Work, Train Ahead	WW	Gas Leak, Weather
C	M of W Work	16 OTHER	
CA	Amtrak Engineering	L1	Unauthorized People On Tracks, Train Ahead
CC	Scheduled Track Work	L	Unauthorized People On Tracks/Near Miss
CF	M of W Caused Mechanical Malfunction	N1	ComEd Failure, Train Ahead
CG	Scheduled Signal Work	N	ComEd Failure
CH	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
O1	AC/DC System Failure, Train Ahead	S	Operational (Efficiency) Testing
O	AC/DC System Failure	T1	Property Vandalism, Train Ahead
XO	Train Annulled - AC/DC Failure	T	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
		XW	Train Annulled - Gas Leak

11/07/07 version

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TABLE 6: NUMBER OF DELAYS BY DATE
April 2009

WEEKDAY	1	2	3	6	7	8	9	10	13	14	15	16	17	20	21	22	23	24	27	28	29	30	TOTAL
	We	Th	Fr	Mo	Tu	We	Th	Fr	Mo	Tu	We	Th	Fr	Mo	Tu	We	Th	Fr	Mo	Tu	We	Th	
BNSF	5	3	5	0	0	0	2	3	0	1	5	0	2	2	10	8	12	6	1	1	1	2	69
Elec -ML	0	0	1	1	0	0	0	1	0	4	0	2	0	1	0	1	1	0	0	0	0	0	12
-BI	0	0	1	0	1	0	1	1	1	4	0	0	0	0	0	1	1	0	0	1	0	1	13
-SC	0	0	0	0	0	0	0	2	0	1	0	0	0	8	0	0	0	0	0	0	0	0	11
Heritage	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Milw -N	0	0	0	1	0	0	0	1	9	0	4	3	13	0	0	5	1	11	0	18	1	0	67
-W	0	0	0	2	0	5	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	10
NCS	0	0	0	1	2	3	1	2	0	0	0	1	1	0	0	5	3	0	0	0	2	1	22
RI	4	0	1	2	1	1	0	0	0	1	0	2	6	2	16	2	2	2	0	0	0	1	43
SWS	1	1	2	4	3	2	1	0	0	1	0	1	2	0	0	1	0	0	3	5	1	0	28
UP -N	0	0	0	0	0	0	0	5	0	0	2	1	2	1	0	0	19	0	3	0	0	1	34
-NW	1	0	0	0	0	0	1	0	4	0	7	1	3	2	0	0	1	0	2	5	0	2	29
-W	1	2	8	1	1	2	1	1	2	0	0	2	0	3	1	2	6	0	1	1	0	0	35
SYSTEM	12	6	18	12	9	13	8	16	17	12	18	13	30	19	27	25	47	19	10	31	5	8	375

SATURDAY	4	11	18	25	TOTAL	SUNDAY/HOLIDAY	5	12	19	26	TOTAL
BNSF	1	0	2	4	7	BNSF	1	0	2	0	3
Elec -ML	0	0	0	0	0	Elec -ML	0	0	0	1	1
-BI	0	0	0	1	1	-BI	-	-	-	-	-
-SC	0	0	0	0	0	-SC	2	0	0	0	2
Heritage	-	-	-	-	-	Heritage	-	-	-	-	-
Milw -N	0	0	0	0	0	Milw -N	0	0	0	0	0
-W	0	0	0	1	1	-W	0	0	0	0	0
NCS	-	-	-	-	-	NCS	-	-	-	-	-
RI	5	0	0	3	8	RI	0	1	0	0	1
SWS	0	0	0	0	0	SWS	-	-	-	-	-
UP -N	1	2	0	1	4	UP -N	0	0	0	0	0
-NW	0	1	0	1	2	-NW	0	1	0	1	2
-W	4	0	1	0	5	-W	0	0	0	0	0
SYSTEM	11	3	3	11	28	SYSTEM	3	2	2	2	9

Data is final (05/13/09) version from TOPS.

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

April 2009

CAUSE CATEGORY	BNSF	Electric			HER	Milw		NCS	RI	SWS	Union Pacific			SYSTEM
		ML	BI	SC		N	W				N	NW	W	
Passenger Train Interference	4	0	0	0	0	0	0	3	16	3	0	1	1	28
<i>Freight Interference - Peak</i>	9	0	0	0	1	1	0	0	0	1	0	2	2	16
<i>Freight Interference - Off-Peak</i>	9	0	0	0	0	2	2	0	5	4	0	2	4	28
Freight Interference - Total	18	0	0	0	1	3	2	0	5	5	0	4	6	44
Accident	0	0	0	0	0	0	3	3	3	0	18	0	0	27
Passenger Loading	3	2	1	0	0	0	0	1	1	0	8	2	3	21
Lift Deployment	1	0	0	0	0	0	0	0	1	3	1	1	1	8
Obstruction/Debris	2	4	2	2	0	18	1	0	2	1	0	3	1	36
Signal/Switch Failure	9	3	1	2	1	22	2	8	7	6	1	0	5	67
Track Work	13	2	4	0	0	11	1	2	7	0	0	6	12	58
Catenary Failure	0	2	1	8	0	0	0	0	0	0	0	0	0	11
Non-Locomotive Equipment Failure	3	0	2	0	0	0	0	0	0	0	0	1	0	6
Locomotive Failure	16	0	0	0	0	13	1	5	6	3	0	0	0	44
Human Error	3	0	1	0	0	0	0	0	2	3	5	11	5	30
Sick, Injured, Unruly Passenger	0	0	1	0	0	0	0	0	1	0	3	4	1	10
Weather	3	0	0	1	0	0	0	0	0	0	0	0	0	4
Other	4	0	1	0	0	0	1	0	1	4	2	0	5	18
TOTAL TRAINS DELAYED	79	13	14	13	2	67	11	22	52	28	38	33	40	412

April - Average Over Previous Five Years: 2004-2008

CAUSE CATEGORY	BNSF	Electric			HER	Milw		NCS	RI	SWS	Union Pacific			SYSTEM
		ML	BI	SC		N	W				N	NW	W	
Passenger Train Interference	2	2	0	1	0	2	4	1	0	1	0	1	2	14
<i>Freight Interference - Peak</i>	4	0	0	0	5	1	6	3	1	4	1	2	2	32
<i>Freight Interference - Off-Peak</i>	9	0	0	0	0	9	7	3	3	5	1	2	15	54
Freight Interference - Total	14	0	0	0	5	10	14	6	4	10	2	4	18	86
Accident	0	0	0	1	0	2	0	1	2	0	4	2	3	16
Passenger Loading	2	1	0	1	0	2	1	0	3	0	3	0	2	15
Lift Deployment	1	0	0	0	0	2	2	1	1	0	0	2	2	13
Obstruction/Debris	1	1	0	4	1	2	3	1	1	0	1	4	1	19
Signal/Switch Failure	10	8	1	2	2	12	15	6	2	4	4	4	7	79
Track Work	3	5	1	3	0	7	4	4	1	1	3	3	3	39
Catenary Failure	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Non-Locomotive Equipment Failure	3	1	0	0	0	1	1	0	1	0	1	0	0	8
Locomotive Failure	3	0	0	0	0	3	3	2	5	0	1	3	2	23
Human Error	6	2	1	1	0	8	7	3	4	1	6	2	7	48
Sick, Injured, Unruly Passenger	1	5	1	2	0	4	2	0	2	0	2	1	2	24
Weather	3	1	0	0	0	3	4	1	1	0	2	2	2	18
Other	3	1	1	0	1	1	2	0	1	1	1	6	4	21
TOTAL TRAINS DELAYED	52	28	7	15	10	59	60	27	28	18	32	34	54	424

April 2009 Divergence From April Average Over Previous Five Years

CAUSE CATEGORY	BNSF	Electric			HER	Milw		NCS	RI	SWS	Union Pacific			SYSTEM
		ML	BI	SC		N	W				N	NW	W	
Passenger Train Interference	2	-2	0	-1	0	-2	-4	2	16	2	0	0	-1	14
<i>Freight Interference - Peak</i>	5	0	0	0	-4	0	-6	-3	-1	-3	-1	0	0	-16
<i>Freight Interference - Off-Peak</i>	0	0	0	0	0	-7	-5	-3	2	-1	-1	0	-11	-26
Freight Interference - Total	4	0	0	0	-4	-7	-12	-6	1	-5	-2	0	-12	-42
Accident	0	0	0	-1	0	-2	3	2	1	0	14	-2	-3	11
Passenger Loading	1	1	1	-1	0	-2	-1	1	-2	0	5	2	1	6
Lift Deployment	0	0	0	0	0	-2	-2	-1	0	3	1	-1	-1	-5
Obstruction/Debris	1	3	2	-2	-1	16	-2	-1	1	1	-1	-1	0	17
Signal/Switch Failure	-1	-5	0	0	-1	10	-13	2	5	2	-3	-4	-2	-12
Track Work	10	-3	3	-3	0	4	-3	-2	6	-1	-3	3	9	19
Catenary Failure	0	1	1	8	0	0	0	0	0	0	0	0	0	10
Non-Locomotive Equipment Failure	0	-1	2	0	0	-1	-1	0	-1	0	-1	1	0	-2
Locomotive Failure	13	0	0	0	0	10	-2	3	1	3	-1	-3	-2	21
Human Error	-3	-2	0	-1	0	-8	-7	-3	-2	2	-1	9	-2	-18
Sick, Injured, Unruly Passenger	-1	-5	0	-2	0	-4	-2	0	-1	0	1	3	-1	-14
Weather	0	-1	0	1	0	-3	-4	-1	-1	0	-2	-2	-2	-14
Other	1	-1	0	0	-1	-1	-1	0	0	3	1	-6	1	-3
TOTAL TRAINS DELAYED	27	-15	7	-2	-8	8	-49	-5	24	10	6	-1	-14	-12

Data for current month is final (05/13/09) version from TOPS.

P:\ONTIME\report\DelaysByCause16Cats.xls>LastMonthByLine 05/13/2009

TABLES 8.a, 8.b & 8.c: FREQUENCY OF TRAIN DELAYS BY CAUSE AND LINE
January-April 2009

CAUSE CATEGORY	BNSF	Electric			HER	Milw		NCS	RI	SWS	Union Pacific			SYSTEM
		ML	BI	SC		N	W				N	NW	W	
Passenger Train Interference	32	19	2	1	1	15	13	12	18	8	4	3	7	135
<i>Freight Interference - Peak</i>	23	0	0	0	13	2	5	16	6	12	2	5	8	92
<i>Freight Interference - Off-Peak</i>	34	0	0	0	0	11	17	19	17	30	2	4	14	148
Freight Interference - Total	57	0	0	0	13	13	22	35	23	42	4	9	22	240
Accident	49	13	1	7	2	3	3	3	4	7	18	35	1	146
Passenger Loading	11	16	11	2	0	7	1	2	18	1	48	14	19	150
Lift Deployment	4	0	0	0	0	13	0	2	15	3	4	7	11	59
Obstruction/Debris	43	4	2	6	0	29	14	2	7	3	1	20	13	144
Signal/Switch Failure	184	30	7	10	16	72	31	31	30	30	32	25	36	534
Track Work	19	7	6	5	1	19	6	5	10	8	0	10	17	113
Catenary Failure	0	5	3	11	0	0	0	0	0	0	0	0	2	21
Non-Locomotive Equipment Failure	6	4	5	2	0	0	1	2	1	0	2	6	2	31
Locomotive Failure	85	3	1	0	2	64	41	7	26	9	7	24	11	280
Human Error	11	4	4	5	3	12	9	0	6	11	18	18	14	115
Sick, Injured, Unruly Passenger	7	11	2	7	0	12	10	0	9	0	13	10	11	92
Weather	65	52	6	15	11	93	47	12	72	27	101	53	69	623
Other	4	8	4	1	0	5	5	0	22	7	17	2	17	92
TOTAL TRAINS DELAYED	577	176	54	72	49	357	203	113	261	156	269	236	252	2,775

January-April - Average Over Previous Five Years: 2004-2008

CAUSE CATEGORY	BNSF	Electric			HER	Milw		NCS	RI	SWS	Union Pacific			SYSTEM
		ML	BI	SC		N	W				N	NW	W	
Passenger Train Interference	10	7	3	3	1	13	17	4	7	3	5	4	7	85
<i>Freight Interference - Peak</i>	28	0	0	0	19	4	10	9	8	12	2	8	20	121
<i>Freight Interference - Off-Peak</i>	50	0	0	0	0	32	21	12	17	21	4	12	89	258
Freight Interference - Total	78	0	0	0	19	37	31	21	25	33	6	20	110	379
Accident	25	2	1	3	0	9	18	6	10	4	10	21	15	125
Passenger Loading	10	5	3	4	0	11	7	1	21	0	38	7	12	118
Lift Deployment	7	0	0	0	0	8	7	3	10	0	4	5	6	51
Obstruction/Debris	18	4	3	12	1	12	13	3	7	2	9	18	9	109
Signal/Switch Failure	93	27	5	8	7	52	53	22	31	20	12	25	38	392
Track Work	13	12	1	11	1	16	8	6	7	4	6	5	6	96
Catenary Failure	0	16	3	5	0	0	0	0	0	0	0	0	0	23
Non-Locomotive Equipment Failure	12	11	6	4	0	4	5	1	5	0	6	4	5	61
Locomotive Failure	20	0	0	0	1	15	19	5	18	2	6	15	14	114
Human Error	43	15	5	7	2	18	20	5	21	5	25	22	17	205
Sick, Injured, Unruly Passenger	13	13	3	4	0	12	7	1	12	0	8	6	8	88
Weather	47	30	11	9	5	54	38	10	47	8	43	36	30	369
Other	12	3	2	2	1	10	8	3	8	2	9	17	13	91
TOTAL TRAINS DELAYED	401	143	46	71	38	271	251	89	229	85	187	205	290	2,306

January-April 2009 Divergence From January-April Average Over Previous Five Years

CAUSE CATEGORY	BNSF	Electric			HER	Milw		NCS	RI	SWS	Union Pacific			SYSTEM
		ML	BI	SC		N	W				N	NW	W	
Passenger Train Interference	22	12	-1	-2	0	2	-4	8	11	5	-1	-1	0	50
<i>Freight Interference - Peak</i>	-5	0	0	0	-6	-2	-5	7	-2	0	0	-3	-12	-29
<i>Freight Interference - Off-Peak</i>	-16	0	0	0	0	-21	-4	7	0	9	-2	-8	-75	-110
Freight Interference - Total	-21	0	0	0	-6	-24	-9	14	-2	9	-2	-11	-88	-139
Accident	24	11	0	4	2	-6	-15	-3	-6	3	8	14	-14	21
Passenger Loading	1	11	8	-2	0	-4	-6	1	-3	1	10	7	7	32
Lift Deployment	-3	0	0	0	0	5	-7	-1	5	3	0	2	5	8
Obstruction/Debris	25	0	-1	-6	-1	17	1	-1	0	1	-8	2	4	35
Signal/Switch Failure	91	3	2	2	9	20	-22	9	-1	10	20	0	-2	142
Track Work	6	-5	5	-6	0	3	-2	-1	3	4	-6	5	11	17
Catenary Failure	0	-11	0	6	0	0	0	0	0	0	0	0	2	-2
Non-Locomotive Equipment Failure	-6	-7	-1	-2	0	-4	-4	1	-4	0	-4	2	-3	-30
Locomotive Failure	65	3	1	0	1	49	22	2	8	7	1	9	-3	166
Human Error	-32	-11	-1	-2	1	-6	-11	-5	-15	6	-7	-4	-3	-90
Sick, Injured, Unruly Passenger	-6	-2	-1	3	0	0	3	-1	-3	0	5	4	3	4
Weather	18	22	-5	6	6	39	9	2	25	19	58	17	39	254
Other	-8	5	2	-1	-1	-5	-3	-3	14	5	8	-15	4	1
TOTAL TRAINS DELAYED	176	33	8	1	11	86	-48	24	32	71	82	31	-38	469

Data for current month is final (05/13/09) version from TOPS.

P:\ONTIME\report\DelaysByCause16Cats.xls\YTDByLine 05/13/2009

**TABLES 9.a & 9.b: FREQUENCY OF TRAIN DELAYS BY CAUSE & MONTH
2009**

CAUSE CATEGORY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan - Apr	
Passenger Train Interference	52	43	12	28									135	4.9%
<i>Freight Interference - Peak</i>	40	15	21	16									92	3.3%
<i>Freight Interference - Off-Peak</i>	56	22	42	28									148	5.3%
Freight Interference - Total	96	37	63	44									240	8.6%
Accident	98	12	9	27									146	5.3%
Passenger Loading	45	33	51	21									150	5.4%
Lift Deployment	23	15	13	8									59	2.1%
Obstruction/Debris	29	48	31	36									144	5.2%
Signal/Switch Failure	263	97	107	67									534	19.2%
Track Work	15	15	25	58									113	4.1%
Catenary Failure	2	8	0	11									21	0.8%
Non-Locomotive Equipment Failure	9	9	7	6									31	1.1%
Locomotive Failure	107	80	49	44									280	10.1%
Human Error	38	19	28	30									115	4.1%
Sick, Injured, Unruly Passenger	23	32	27	10									92	3.3%
Weather	599	9	11	4									623	22.5%
Other	27	10	37	18									92	3.3%
TOTAL TRAINS DELAYED	1,426	467	470	412									2,775	100%

Data for current month is final (05/13/09) version from TOPS.

2008

CAUSE CATEGORY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan - Apr	
Passenger Train Interference	30	30	17	7	3	6	8	4	47	25	16	65	84	2.8%
<i>Freight Interference - Peak</i>	29	38	27	30	17	35	28	23	48	43	26	25	124	4.2%
<i>Freight Interference - Off-Peak</i>	71	81	78	51	46	39	47	59	87	91	50	39	281	9.5%
Freight Interference - Total	100	119	105	81	63	74	75	82	135	134	76	64	405	13.7%
Accident	81	33	36	34	57	44	11	16	39	2	15	83	184	6.2%
Passenger Loading	72	76	80	22	62	193	203	188	78	92	117	87	250	8.5%
Lift Deployment	24	14	18	20	15	15	16	26	16	12	17	23	76	2.6%
Obstruction/Debris	46	55	18	21	10	40	30	7	15	24	29	23	140	4.7%
Signal/Switch Failure	174	99	124	128	83	94	90	108	149	106	169	171	525	17.7%
Track Work	19	11	24	54	35	73	61	67	52	122	119	56	108	3.7%
Catenary Failure	16	2	5	0	2	0	0	1	9	2	8	11	23	0.8%
Non-Locomotive Equipment Failure	55	15	10	9	6	14	14	15	12	21	10	17	89	3.0%
Locomotive Failure	39	44	34	45	9	24	43	41	32	31	55	40	162	5.5%
Human Error	57	58	39	30	46	52	65	77	39	78	39	70	184	6.2%
Sick, Injured, Unruly Passenger	43	25	18	21	20	29	38	20	21	43	33	29	107	3.6%
Weather	173	277	32	10	10	23	29	131	25	11	41	683	492	16.6%
Other	25	43	22	39	19	33	15	22	54	107	16	73	129	4.4%
TOTAL TRAINS DELAYED	954	901	582	521	440	714	698	805	723	810	760	1,495	2,958	100%

P:\ONTIME\report\[DelaysByCause16Cats.xls]AllMonths 05/13/2009

**TABLE 10: FREIGHT DELAYS ON METRA DIESEL LINES
between May 2007 and April 2009**

	BNSF	HER	Milw		NCS	RI	SWS	Union Pacific			SYSTEM
			N	W				N	NW	W	
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
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
Total	128	65	112	64	75	64	137	28	65	386	1,124
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
Nov-08	9	5	5	4	1	6	15	1	9	21	76
Dec-08	5	4	8	9	10	5	13	2	4	4	64
Jan-09	20	7	6	9	18	5	21	0	4	6	96
Feb-09	6	2	1	6	9	5	6	0	0	2	37
Mar-09	13	3	3	5	8	8	10	4	1	8	63
Apr-09	18	1	3	2	0	5	5	0	4	6	44
Total	179	52	80	59	80	81	152	25	38	197	943

Data for current month is final (05/13/09) version from TOPS.

P:\ONTIME\report\DelaysByCause16Cats.xls\Freight- YTD, 2 yrs 05/13/2009

**TABLES 11.a & 11.b: FREQUENCY OF LIFT-DEPLOYMENT TRAIN DELAYS BY LINE & MONTH
2009**

LINE	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Lift	% of All
													Delays	Delays
													YTD	YTD
BNSF	0	2	1	1									4	0.69%
Electric ML	0	0	0	0									0	0.00%
Electric BI	0	0	0	0									0	0.00%
Electric SC	0	0	0	0									0	0.00%
HER	0	0	0	0									0	0.00%
Milw N	13	0	0	0									13	3.64%
Milw W	0	0	0	0									0	0.00%
NCS	1	0	1	0									2	1.77%
RI	3	5	6	1									15	5.75%
SWS	0	0	0	3									3	1.92%
UP N	1	0	2	1									4	1.49%
UP NW	1	4	1	1									7	2.97%
UP W	4	4	2	1									11	4.37%
Total Lift Delays	23	15	13	8									59	2.13%
ALL DELAYS													2,775	

Data for current month is final (05/13/09) version from TOPS.

2008

LINE	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Lift	% of All
													Delays	Delays
													All Year	All Year
BNSF	1	1	3	0	0	1	0	0	0	2	2	0	10	0.67%
Electric ML	0	0	0	0	0	0	0	0	1	0	0	1	2	0.32%
Electric BI	0	0	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	0	0.00%
HER	0	0	0	0	0	0	0	1	0	0	0	0	1	0.57%
Milw N	2	0	3	4	6	1	8	12	2	3	3	5	49	4.60%
Milw W	1	2	2	1	1	3	8	3	1	0	0	5	27	4.33%
NCS	2	1	0	2	1	0	0	1	2	0	0	0	9	2.96%
RI	9	4	5	0	5	6	0	4	3	2	11	10	59	6.66%
SWS	0	0	0	1	0	0	0	0	0	0	0	0	1	0.23%
UP N	3	2	2	0	0	1	0	1	3	1	1	0	14	1.05%
UP NW	3	3	2	9	0	3	0	2	2	3	0	2	29	3.19%
UP W	3	1	1	3	2	0	0	2	2	1	0	0	15	1.39%
Total Lift Delays	24	14	18	20	15	15	16	26	16	12	17	23	216	2.30%
ALL DELAYS													9,403	

TABLE 12: FREQUENCY OF TRAIN DELAYS BY DURATION

April 2009

Minutes	BNSF	Electric			Her	Milwaukee		NCS	RI	SWS	UP			System
		ML	BI	SC		N	W				N	NW	W	
Peak *														
6-10	25	2	1	0	1	4	0	6	3	1	3	6	12	64
11-15	2	1	0	0	1	3	1	5	6	2	2	5	0	28
16-20	8	0	0	0	0	1	0	1	1	2	0	2	1	16
21+	5	0	0	1	0	10	0	0	9	3	7	2	2	39
Annulled	4	0	0	2	0	3	0	0	2	0	5	0	0	16
Sub-Total	44	3	1	3	2	21	1	12	21	8	17	15	15	163
Off-Peak **														
6-10	20	5	9	2	0	15	2	1	20	10	9	10	15	118
11-15	5	0	0	0	0	10	4	2	5	5	5	5	7	48
16-20	2	2	1	1	0	2	0	1	2	4	1	1	1	18
21+	6	3	1	6	0	16	3	6	4	1	5	2	2	55
Annulled	2	0	2	1	0	3	1	0	0	0	1	0	0	10
Sub-Total	35	10	13	10	0	46	10	10	31	20	21	18	25	249
April 2009 Total														
6-10	45	7	10	2	1	19	2	7	23	11	12	16	27	182
11-15	7	1	0	0	1	13	5	7	11	7	7	10	7	76
16-20	10	2	1	1	0	3	0	2	3	6	1	3	2	34
21+	11	3	1	7	0	26	3	6	13	4	12	4	4	94
Annulled	6	0	2	3	0	6	1	0	2	0	6	0	0	26
TOTAL	79	13	14	13	2	67	11	22	52	28	38	33	40	412
2009 Year-to-Date														
6-10	233	97	41	37	14	100	58	39	139	55	169	124	142	1,248
11-15	116	36	5	16	9	104	66	27	50	33	46	47	48	603
16-20	65	25	2	3	11	66	35	14	28	28	12	14	24	327
21+	129	16	3	12	15	80	36	30	36	38	35	41	33	504
Annulled	34	2	3	4	0	7	8	3	8	2	7	10	5	93
TOTAL	577	176	54	72	49	357	203	113	261	156	269	236	252	2,775
PERCENT COMPOSITION OF DELAYS BY RANGE OF DURATION														
Minutes	BNSF	Electric			Her	Milwaukee		NCS	RI	SWS	UP			System
		ML	BI	SC		N	W				N	NW	W	
April 2009 Total														
6-10	57.0%	53.8%	71.4%	15.4%	50.0%	28.4%	18.2%	31.8%	44.2%	39.3%	31.6%	48.5%	67.5%	44.2%
11-15	8.9%	7.7%	0.0%	0.0%	50.0%	19.4%	45.5%	31.8%	21.2%	25.0%	18.4%	30.3%	17.5%	18.4%
16-20	12.7%	15.4%	7.1%	7.7%	0.0%	4.5%	0.0%	9.1%	5.8%	21.4%	2.6%	9.1%	5.0%	8.3%
21+	13.9%	23.1%	7.1%	53.8%	0.0%	38.8%	27.3%	27.3%	25.0%	14.3%	31.6%	12.1%	10.0%	22.8%
Annulled	7.6%	0.0%	14.3%	23.1%	0.0%	9.0%	9.1%	0.0%	3.8%	0.0%	15.8%	0.0%	0.0%	6.3%
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%
2009 Year-to-Date Delays By Duration														
6-10	40.4%	55.1%	75.9%	51.4%	28.6%	28.0%	28.6%	34.5%	53.3%	35.3%	62.8%	52.5%	56.3%	45.0%
11-15	20.1%	20.5%	9.3%	22.2%	18.4%	29.1%	32.5%	23.9%	19.2%	21.2%	17.1%	19.9%	19.0%	21.7%
16-20	11.3%	14.2%	3.7%	4.2%	22.4%	18.5%	17.2%	12.4%	10.7%	17.9%	4.5%	5.9%	9.5%	11.8%
21+	22.4%	9.1%	5.6%	16.7%	30.6%	22.4%	17.7%	26.5%	13.8%	24.4%	13.0%	17.4%	13.1%	18.2%
Annulled	5.9%	1.1%	5.6%	5.6%	0.0%	2.0%	3.9%	2.7%	3.1%	1.3%	2.6%	4.2%	2.0%	3.4%
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 (05/13/09) version from TOPS.

TABLE 13: AVERAGE LENGTH OF DELAY BY SERVICE PERIOD, IN MINUTES

	BNSF	Electric			Her	Milwaukee		NCS	RI	SWS	UP			System
		ML	BI	SC		N	W				N	NW	W	
<i>April 2009</i>														
Peak *	12.0	10.0	7.0	52.0	11.0	31.0	11.0	9.8	21.6	19.4	73.0	13.1	11.6	21.0
Off-Peak **	14.0	15.0	11.0	25.1	--	19.9	16.0	30.1	12.2	12.3	20.4	11.8	12.6	16.0
All	12.9	13.8	10.7	27.8	11.0	23.2	15.5	19.0	15.8	14.3	40.1	12.4	12.2	17.9
<i>2009 Year-to-Date</i>														
Peak *	18.4	11.5	9.0	10.9	19.1	17.2	15.5	14.7	14.8	18.0	18.9	15.7	12.5	16.0
Off-Peak **	18.5	13.9	10.7	14.2	--	16.9	17.1	26.7	12.7	16.8	13.4	15.6	14.8	15.9
All	18.4	12.3	9.8	13.4	19.1	17.0	16.4	19.5	13.5	17.2	15.4	15.7	13.6	16.0

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 (05/13/09) version from TOPS.