

# Technical Advisor's Report – Help

The Technical Advisor's (TA) Report is the primary document for reporting information on operational trends at MSP, and the affects those trends have had on the noise impact in the communities around the airport on a monthly basis. Following is a description of the main components of the TA.

The first set of information reported in the TA relates to complaints received from community members throughout the course of the month. This information includes the number of complaints received (per city); the number of complaints for arrival or departure operations or other events; and the number of complainants in each city. The complaints are broken down by the nature of a complaint, the time a complaint was submitted, and the airport from which the aircraft complained about was operating. Complaints are also broken down by whether they were filed over the phone or via the Internet, with on-line complaint information shaded.

A map showing the number of complaints filed by address is also provided.

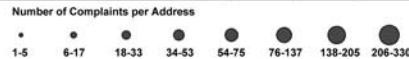
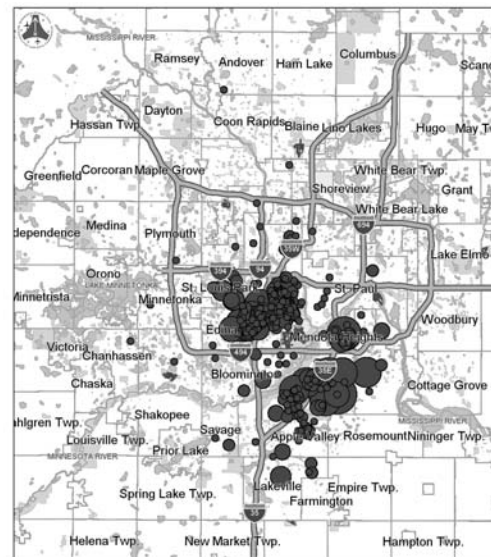
MSP Complaints by City  
August 2011

City	Arrival	Departure	Other	Number of Complainants	Number of Complaints	% of Total Complaints			
RADAN	17	183	14	1172	97	300	1808	49	37.7%
MINNEAPOLIS	28	81	128	909	11	707	1773	184	10.4%
MINNETONKA	1	0	19	199	10	44	273	19	3.7%
EDINA	0	0	191	1	2	71	269	9	3.6%
SANT LOUIS PARK	0	146	0	2	6	20	189	7	3.9%
APPLE VALLEY	2	71	0	7	11	12	103	14	2.8%
INVER GROVE HEIGHTS	0	84	0	2	0	6	102	3	2.8%
LAKEVILLE	8	38	0	0	1	7	74	4	1.9%
BURNSVILLE	0	15	3	33	1	19	73	13	1.5%
BLOOMINGTON	0	1	13	22	2	9	49	10	1%
SOUTH SAINT PAUL	0	0	0	18	0	1	19	1	0.6%
RICHFIELD	0	0	2	8	0	4	14	5	0.3%
SAVAGE	0	0	0	12	0	2	14	2	0.3%
SANT PAUL	0	2	0	3	0	9	14	6	0.3%
CHANHASSEN	0	0	0	0	0	3	7	1	0.1%
SANT ANTHONY	0	0	0	3	0	1	4	2	0.1%
GOLDEN VALLEY	0	0	0	0	0	4	4	1	0.1%
SPRING LAKE PARK	0	0	0	0	0	3	3	1	0.1%
WEST SAINT PAUL	0	0	0	0	1	1	2	2	0%
PLYMOUTH	0	0	0	0	2	0	2	1	0%
ROSEVILLE	0	0	0	0	0	1	1	1	0%
MINNETONKA	0	0	0	0	1	0	1	1	0%
MINNETONKA	0	0	0	0	1	0	1	1	0%
EDEN PRAIRIE	0	1	0	0	0	0	1	1	0%
EDEN PRAIRIE	0	1	0	0	0	0	1	1	0%
OTHER	0	0	0	1	0	1	2	2	0%
<b>Total</b>	<b>58</b>	<b>304</b>	<b>138</b>	<b>4799</b>	<b>499</b>	<b>500</b>			

Nature of MSP Complaint		Time of Day		Complaints by Airport	
Complaint	Total	Evening	Total	Airport	Total
Early Land	83	1186	0600-0700	17	173
Enroute Request	0	48	0800-0900	4	184
Excessive Noise	596	5009	0700-1700	233	2214
Frequency	313	2133	1200-1300	81	528
General Issue	0	109	1800-1900	200	1728
Relocation	0	13	2000-2300	47	132
Low Flying	76	2148	2200-2300	49	540
Unscheduled Operations	0	489	2300-2359	9	1207
Other	1	242			
<b>Total</b>	<b>12177</b>		<b>Total</b>	<b>4799</b>	

Note: Shaded cells represent MSP complaints filed via the Internet.  
 Note: 1% Total of complaints reported were filed via the Internet.  
 Note: Only 2011 MSP Complaints by City report includes multiple complaint categories are included in complaint. Therefore, the number of complaints may be less than the number of city complaints.

MSP International Airport  
Aviation Noise Complaints for August 2011





Information about air carrier aircraft types is included in a table showing the carrier jet fleet composition for the month. Details are broken out to show the FAR Part 36 take-off noise level associated with each type of aircraft and what percent of total operations was conducted by each type of aircraft.

The MAC has stressed the importance of carrier and cargo operators using manufactured Stage 3 aircraft for operations during night hours due to the overall decrease in noise exposure doing so affords. The TA includes data related to the top 15 nighttime airline operators at MSP. The first part of this data section provides names of the airlines, the type of aircraft they operate during the night hours and the counts of each aircraft type. Also provided is the total number of nighttime operations at MSP broken down by the hour at which the operation began. The second page provides counts of Stage 2, Stage 3 and manufactured Stage 3 aircraft used by the airlines during the night hours.

The pages following the top 15 night operators summary pages provide images of the actual flight tracks flown by carrier jet operators for the time periods specified. The images and counts are broken down by departure and arrival operations, and images of tracks and counts of aircraft operating during night hours are shown.

August 2011 MSP Carrier Jet Fleet Composition

Type	FAR Part 36 Take-Off Noise Level	Aircraft Description	Stage	Count	Percent
DC10	101.5	McDonnell Douglas DC10	3	171	0.5%
B744	101.6	Boeing 747-400	3	62	0.2%
DC9Q	99.1	McDonnell Douglas DC9 Modified Stage 3	3	640	1.8%
DC9Q	99.7	McDonnell Douglas DC9 Re-manufactured	3	122	0.3%
A330	99.9	Airbus Industries A330	3	140	0.4%
MD11	92.8	McDonnell Douglas MD11	3	75	0.2%
B767	92.1	Boeing 767-200	3	348	1%
A300	91.5	Airbus Industries A300	3	2	0%
MD80	91.5	McDonnell Douglas MD80	3	1071	3%
B737	91.4	Boeing 737-200	3	2255	7.8%
A321	89.8	Airbus Industries A321	3	133	0.4%
B734	88.9	Boeing 737-400	3	2	0%
B738	88.6	Boeing 737-800	3	1599	4.5%
B739	88.4	Boeing 737-900	3	95	0.2%
A320	87.8	Airbus Industries A320	3	3349	9.4%
B735	87.7	Boeing 737-500	3	115	0.3%
B733	87.5	Boeing 737-300	3	488	1.4%
A319	87.4	Airbus Industries A319	3	2648	7.4%
E190	86.9	Embraer 190	3	104	0.3%
B737	85.9	Boeing 737-700	3	729	2.1%
CRJ	84.6	Canadair Regional Jet-CRJ	3	12525	35.2%
MD90	84.2	McDonnell Douglas MD90	3	2225	6.3%
A318	84.1	Airbus Industries A318	3	6	0%
B717	84.1	Boeing 717	3	579	1.6%
E145	83.7	Embraer 145	3	705	2%
E170	83.7	Embraer 170	3	4869	13.7%
E135	77.9	Embraer 135	3	9	0%
328	76.5	Fairchild Dornier 328	3	3	0%
<b>Totals</b>				<b>35543</b>	

Each of these aircraft types will equal 100% due to rounding.

	Count	Current Percent	Last Year Percent
Stage 2		0%	0%
Stage 3	696	1.9%	5.5%
Stage 3 Manufactured	34897	98.2%	94.5%
<b>Total Stage 3</b>	<b>35543</b>		

August 2011 Top 15 Actual Nighttime Jet Operators by Type 10:30 p.m. to 6:00 a.m.

Airline	ID	Stage	Type	Count
Air Transport Intl	ATN	3	DC8Q	37
Airtran	TRS	3	B717	85
America West	AWE	3	A319	3
America West	AWE	3	A320	29
America West	AWE	3	A321	39
American	AAL	3	B757	1
American	AAL	3	B738	18
American	AAL	3	MD80	36
American Eagle	EGF	3	CRJ	37
Compass	CPZ	3	E170	84
Delta	DAL	3	DC9Q	5
Delta	DAL	3	MD80	8
Delta	DAL	3	B767	23
Delta	DAL	3	A319	26
Delta	DAL	3	B738	74
Delta	DAL	3	A320	97
Delta	DAL	3	MD90	132
Delta	DAL	3	B757	218
FedEx	FDX	3	B757	17
FedEx	FDX	3	DC10	41
Mesa	MES	3	CRJ	120
Pinnacle	FLG	3	CRJ	120
Skywest Airlines	SKW	3	CRJ	51
Southwest	SWA	3	B733	17
Southwest	SWA	3	B737	26
Sun Country	SCX	3	B737	52
Sun Country	SCX	3	B738	132
UPS	UPS	3	MD11	19
UPS	UPS	3	B757	48
United	UAL	3	B757	1
United	UAL	3	A319	11
United	UAL	3	A320	52
<b>TOTAL</b>				<b>1647</b>

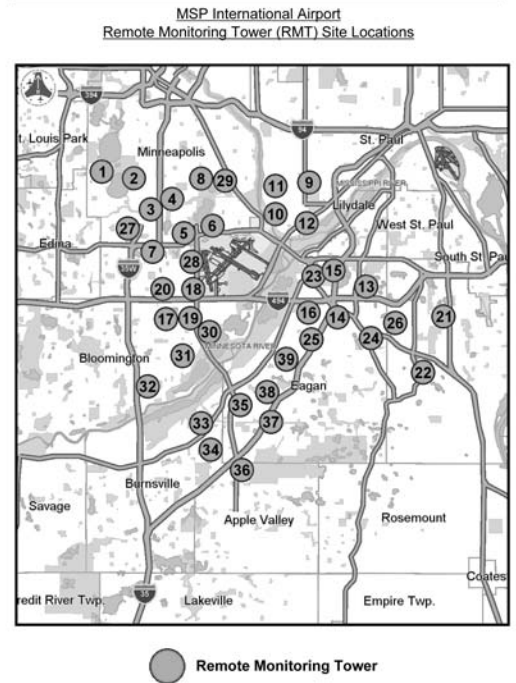
Total Nighttime Jet Operations by Hour

Hour	Count
2230	643
2300	416
2400	134
100	37
200	16
300	10
400	88
500	408
<b>TOTAL</b>	<b>1752</b>

Note: The top 15 nighttime operators represent 94% of the total nighttime carrier jet operations.

Thirty-nine Remote Monitoring Towers (RMT) are used to collect noise event data for the MACNOMS system.

A map of the RMT site locations is provided, followed by data for time-above-dB-threshold events related to arrival and departure operations at each RMT. Each RMT's number and address, and the count of noise events recorded greater than 65dB, 80dB, 90dB and 100dB is shown. It should be noted that the counts of noise events includes all events greater than the specified level.



Time Above dB Threshold for Arrival Related Noise Events August 2011

RMT ID	City	Address	Time >= 65dB	Time >= 80dB	Time >= 90dB	Time >= 100dB
1	Minneapolis	Xenex Ave. & 41st St.	11:54:11	00:01:15	00:00:08	00:00:00
2	Minneapolis	Fremont Ave. & 43rd St.	12:35:07	00:03:41	00:00:05	00:00:00
3	Minneapolis	West Elmwood St. & Belmont Ave.	15:35:44	00:27:55	00:00:19	00:00:00
4	Minneapolis	Park Ave. & 48th St.	12:55:00	00:05:54	00:00:02	00:00:00
5	Minneapolis	12th Ave. & 58th St.	14:56:35	02:52:51	00:00:59	00:00:06
6	Minneapolis	25th Ave. & 57th St.	12:51:43	02:13:29	00:00:54	00:00:00
7	Richfield	Wentworth Ave. & 64th St.	00:16:44	00:00:14	00:00:00	00:00:00
8	Minneapolis	Longfellow Ave. & 43rd St.	00:59:44	00:00:35	00:00:00	00:00:00
9	St. Paul	Saraboga St. & Hartford Ave.	00:01:58	00:00:08	00:00:00	00:00:00
10	St. Paul	Itasca Ave. & Bowdoin St.	00:04:10	00:00:06	00:00:00	00:00:00
11	St. Paul	Finn St. & Scheffer Ave.	00:00:57	00:00:00	00:00:00	00:00:00
12	St. Paul	Alton St. & Rockwood Ave.	00:01:13	00:00:00	00:00:00	00:00:00
13	Mendota Heights	Southeast end of Mohican Court	00:07:02	00:00:00	00:00:00	00:00:00
14	Eagan	1st St. & McKee St.	14:59:50	00:01:02	00:00:08	00:00:03
15	Mendota Heights	Culton St. & Lexington Ave.	00:25:55	00:00:35	00:00:00	00:00:00
16	Eagan	Avaton Ave. & Vilas Ln.	18:42:12	00:33:05	00:00:09	00:00:00
17	Bloomington	84th St. & 4th Ave.	00:02:34	00:00:25	00:00:01	00:00:00
18	Richfield	75th St. & 17th Ave.	00:30:06	00:00:32	00:00:00	00:00:00
19	Bloomington	16th Ave. & 84th St.	00:17:33	00:00:21	00:00:00	00:00:00
20	Richfield	75th St. & 3rd Ave.	00:02:12	00:00:09	00:00:00	00:00:00
21	Inver Grove Heights	Barbara Ave. & 67th St.	00:16:24	00:00:04	00:00:00	00:00:00
22	Inver Grove Heights	Anne Marie Trail	12:59:35	00:00:14	00:00:00	00:00:00
23	Mendota Heights	End of Kennison Ave.	01:26:48	00:00:23	00:00:00	00:00:00
24	Eagan	Chapel Ln. & Wren Ln.	21:02:21	00:00:49	00:00:00	00:00:00
25	Eagan	Moonshine Park 1321 Jundy Rd.	00:27:38	00:00:03	00:00:00	00:00:00
26	Inver Grove Heights	6796 Arkansas Ave. W.	01:52:51	00:00:00	00:00:00	00:00:00
27	Minneapolis	Anthony School 5757 Irving Ave. S.	00:04:58	00:00:05	00:00:00	00:00:00
28	Richfield	6645 16th Ave. S.	01:35:40	00:00:43	00:00:00	00:00:00
29	Minneapolis	Erosson Elem. School 4315 31st Ave. S.	00:01:28	00:00:00	00:00:00	00:00:00
30	Bloomington	8715 River Ridge Rd.	05:24:48	00:00:54	00:00:05	00:00:00
31	Bloomington	9501 12th Ave. S.	00:00:52	00:00:04	00:00:00	00:00:00
32	Bloomington	10325 Pleasant Ave. S.	00:00:47	00:00:00	00:00:00	00:00:00
33	Burnsville	North River Hills Park	00:01:45	00:00:02	00:00:00	00:00:00
34	Burnsville	Red Oak Park	00:19:04	00:00:01	00:00:00	00:00:00
35	Eagan	2100 Garnet Ln.	07:56:27	00:01:08	00:00:00	00:00:00
36	Apple Valley	Briar Oaks & Scout Pond	15:03:12	00:00:52	00:00:00	00:00:00
37	Eagan	4399 Woodgate Ln. N.	00:01:04	00:00:00	00:00:00	00:00:00
38	Eagan	3957 Turquoise Cir.	00:00:14	00:00:00	00:00:00	00:00:00
39	Eagan	3477 St. Charles Pl.	00:00:29	00:00:00	00:00:00	00:00:00
<b>Total Time for Arrival Noise Events</b>			<b>184:16:05</b>	<b>06:27:39</b>	<b>00:02:50</b>	<b>00:00:00</b>

\*Note: These time values and levels are based upon 1-second log levels.

Departure Related Noise Events August 2011

RMT ID	City	Address	Departure Events >= 65dB	Departure Events >= 80dB	Departure Events >= 90dB	Departure Events >= 100dB
1	Minneapolis	Xenex Ave. & 41st St.	1001	19	0	0
2	Minneapolis	Fremont Ave. & 43rd St.	1260	30	0	0
3	Minneapolis	West Elmwood St. & Belmont Ave.	2551	131	4	0
4	Minneapolis	Park Ave. & 48th St.	2943	287	16	0
5	Minneapolis	12th Ave. & 58th St.	7394	1995	195	0
6	Minneapolis	25th Ave. & 57th St.	6708	3643	333	17
7	Richfield	Wentworth Ave. & 64th St.	4474	307	3	0
8	Minneapolis	Longfellow Ave. & 43rd St.	3314	246	8	0
9	St. Paul	Saraboga St. & Hartford Ave.	11	3	0	0
10	St. Paul	Itasca Ave. & Bowdoin St.	18	4	2	1
11	St. Paul	Finn St. & Scheffer Ave.	18	6	0	0
12	St. Paul	Alton St. & Rockwood Ave.	6	0	0	0
13	Mendota Heights	Southeast end of Mohican Court	1191	18	0	0
14	Eagan	1st St. & McKee St.	938	83	2	0
15	Mendota Heights	Culton St. & Lexington Ave.	1504	75	1	0
16	Eagan	Avaton Ave. & Vilas Ln.	951	178	27	0
17	Bloomington	84th St. & 4th Ave.	64	15	4	0
18	Richfield	75th St. & 17th Ave.	1953	51	20	0
19	Bloomington	16th Ave. & 84th St.	819	32	2	0
20	Richfield	75th St. & 3rd Ave.	170	21	2	0
21	Inver Grove Heights	Barbara Ave. & 67th St.	489	7	0	0
22	Inver Grove Heights	Anne Marie Trail	269	3	0	0
23	Mendota Heights	End of Kennison Ave.	2694	306	12	0
24	Eagan	Chapel Ln. & Wren Ln.	722	38	0	0
25	Eagan	Moonshine Park 1321 Jundy Rd.	807	3	0	0
26	Inver Grove Heights	6796 Arkansas Ave. W.	649	9	1	0
27	Minneapolis	Anthony School 5757 Irving Ave. S.	3414	177	0	0
28	Richfield	6645 16th Ave. S.	3011	82	1	0
29	Minneapolis	Erosson Elem. School 4315 31st Ave. S.	1501	42	0	0
30	Bloomington	8715 River Ridge Rd.	3087	271	11	0
31	Bloomington	9501 12th Ave. S.	359	8	0	0
32	Bloomington	10325 Pleasant Ave. S.	146	3	0	0
33	Burnsville	North River Hills Park	424	2	0	0
34	Burnsville	Red Oak Park	161	0	0	0
35	Eagan	2100 Garnet Ln.	573	24	0	0
36	Apple Valley	Briar Oaks & Scout Pond	263	8	0	0
37	Eagan	4399 Woodgate Ln. N.	330	12	0	0
38	Eagan	3957 Turquoise Cir.	627	29	0	0
39	Eagan	3477 St. Charles Pl.	876	59	0	0
<b>Total Departure Noise Events</b>			<b>59089</b>	<b>8227</b>	<b>644</b>	<b>18</b>

\*Note: These counts are based upon Lmax.

Following are breakdowns of the date and time, aircraft type, airline, flight number, mode of operation and runway used for aircraft that created the top 10 noise exceedances at each RMT. A summary of the top 10 events for all RMTs is provided, listing the percentage of operations reported that were departures and the percentage of operations of the aircraft type appearing most frequently.

Top Ten Loudest Aircraft Noise Events for MSP  
August 2011

(RMT Site#1)

Xerxes Ave. & 41st St., Minneapolis

Date/Time	Flight Number	Aircraft Type	Arrival/Departure	Runway	Lmax(dB)
08/14/2011 10:56	Unknown	LRN	A	12R	93.5
08/01/2011 5:46	DAL1088	B757	A	12R	89.2
08/12/2011 16:26	DAL621	B744	D	30L	85.8
08/23/2011 10:06	RPA3141	E170	A	12R	85.6
08/30/2011 9:02	DAL700	A319	A	12R	85.3
08/01/2011 15:03	DAL2368	A319	A	12R	84.7
08/26/2011 15:51	DAL621	B744	D	30L	84.4
08/09/2011 15:34	DAL621	B744	D	30L	84.3
08/29/2011 16:04	DAL621	B744	D	30L	83.9
08/19/2011 15:38	DAL621	B744	D	22	83.6

(RMT Site#2)

Fremont Ave. & 43rd St., Minneapolis

Date/Time	Flight Number	Aircraft Type	Arrival/Departure	Runway	Lmax(dB)
08/30/2011 21:42	AAL2366	MD80	A	12L	93.4
08/30/2011 16:42	AAL2043	MD80	A	12L	88.8
08/18/2011 14:10	DAL924	DC9G	A	12L	88.6
08/17/2011 7:17	MTW853	ATR	D	30R	87.5
08/15/2011 9:39	DAL1393	DC9G	A	12L	87.3
08/12/2011 7:56	CPZ5740	E170	A	12R	85.8
08/30/2011 18:13	DAL2335	DC9G	A	12L	85.8
08/01/2011 15:03	MES2543	SF34	A	12L	85.6
08/21/2011 19:58	DAL865	MD80	D	30R	85.4
08/01/2011 14:50	DAL1476	MD80	A	12L	84.8

(RMT Site#3)

West Elmwood St. & Belmont Ave., Minneapolis

Date/Time	Flight Number	Aircraft Type	Arrival/Departure	Runway	Lmax(dB)
08/14/2011 10:57	Unknown	LRN	A	12R	99
08/01/2011 5:46	DAL1088	B757	A	12R	97.8
08/09/2011 15:33	DAL621	B744	D	30L	93.8
08/12/2011 16:24	SC2257	B738	D	30R	93.7
08/02/2011 15:42	DAL621	B744	D	30L	92.2
08/22/2011 16:58	DAL41	B767	A	12R	92
08/26/2011 15:51	DAL621	B744	D	30L	91.6
08/01/2011 14:54	FLG3781	CRJ	A	12L	90.6
08/01/2011 20:46	DAL798	DC9G	A	12R	90
08/28/2011 16:03	DAL621	B744	D	30L	89.2

The last three pages of the Technical Advisor's Report provide daily and monthly aircraft DNL values recorded by the RMTs.

Analysis of Aircraft Noise Events DNL  
August 2011

Remote Monitoring Towers

Date	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#14	#15	
08/01/2011	60.7	61.4	67.9	64	70.7	67.6	52.7	51.3	27.3	38.5	29.7	30.6	55	60.7	60	
08/02/2011	57.4	53.6	64.5	60.7	71.3	70.1	62.5	58.4	NA	NA	31.1	NA	38.6	58.2	41.3	
08/03/2011	56.5	56	62.2	60.2	70.4	69.3	61.9	58.9	NA	37.7	39.7	NA	53.6	50.1	60.4	
08/04/2011	56.1	57.1	64.3	62	71.2	69	56.9	58.7	31.3	45.6	41.6	NA	57.9	59.4	59.7	
08/05/2011	56	57.6	62.1	60.2	68	68.8	56.1	57.5	NA	NA	NA	NA	54.7	59	59.5	
08/06/2011	56.6	58.7	61.6	62.6	69.4	71.5	58.2	56.9	NA	NA	NA	NA	50.7	56.9	53.2	
08/07/2011	55.1	51.8	61.8	61.8	70.3	69.3	60.5	59.1	51	53.4	44	NA	55.3	58.6	57	
08/08/2011	53.2	55.6	59.7	64.9	69.9	69.8	59.3	58.2	NA	NA	NA	NA	46.7	57.1	48.9	
08/09/2011	55	57.4	60.4	61.6	69.1	70	65	59.8	41.5	43.7	NA	NA	37.4	60.1	36.1	
08/10/2011	55.7	57.3	60.3	62.1	68.3	71.7	61.5	61.5	27.7	29	NA	NA	NA	58.9	48	
08/11/2011	54.8	53.6	61.8	61.8	69.2	69.5	59.3	61	NA	NA	NA	45.2	58.8	59	60.7	
08/12/2011	58.7	60.1	66.4	60.7	70.7	67.9	54	54.8	39.7	33	NA	40.9	57.8	61.3	58.8	
08/13/2011	53.8	52.8	58.8	60.6	68.8	68.5	61.5	56.9	42.2	57.7	48.4	NA	54.6	58.9	55.5	
08/14/2011	59.2	58.9	65.1	59.7	70	65.5	41.1	44.6	NA	NA	NA	NA	57.8	62.3	60.4	
08/15/2011	57	58.5	64	60.2	69.6	66.8	54.4	51.6	NA	NA	NA	NA	55.5	61.4	61.7	
08/16/2011	59.6	60.9	65.9	63	69.7	71	60.8	54.8	NA	NA	26.2	NA	53.8	59.6	55.9	
08/17/2011	55.4	56.8	57.8	61.1	67.3	71.2	61.3	60.4	44.1	52.4	49.7	34	36.8	59	36.1	
08/18/2011	54.6	58.8	61.8	59.8	67.4	68	54.6	57	NA	32.1	35.5	NA	58.6	59.7	61.5	
08/19/2011	56.3	60.3	59.1	59.5	67	70.5	61.4	60.1	NA	NA	26.1	NA	36.5	57.6	42.5	
08/20/2011	52.6	53.5	57.4	59.3	66.5	69.2	59.2	61.1	33.3	NA	33.4	24.2	32.3	56.8	36.1	
08/21/2011	54.2	55.4	61	59	67.9	68.5	58.7	58.3	NA	NA	NA	NA	52.1	58.1	60.4	
08/22/2011	56.6	58.4	63.9	58.6	68	67.2	53.2	56	NA	NA	NA	27.7	55.7	63.3	62.3	
08/23/2011	57.7	57.6	63.3	59.7	68.5	67.8	57	54.5	NA	27.9	46.3	30.2	58.3	61.4	60.2	
08/24/2011	53.8	57	58.3	59.2	68.4	69.6	62.5	58.9	NA	38.7	31.8	NA	30.3	60.1	41.1	
08/25/2011	51.7	52.5	58.2	57.3	66.4	69	60.6	58.9	32.7	42.9	39.5	28.2	52.8	59.9	60.3	
08/26/2011	53.6	54.6	58.6	58.9	64.4	69.8	58	58.6	NA	35.9	45.1	NA	39.8	56.8	44.6	
08/27/2011	48.9	51.5	56.6	58.8	67.1	70.1	60.5	60.9	45.7	56.4	42.3	NA	27.2	54.8	NA	
08/28/2011	54.9	57.4	58.5	60.5	65.9	70.6	59.8	58	NA	NA	NA	NA	44	57.9	43.2	
08/29/2011	53.3	56.4	58.2	61.3	66.8	71.4	59.2	60.2	NA	NA	NA	NA	46.6	28.5	55.3	43.3
08/30/2011	57.1	61.2	64	60.6	68.4	68	51.2	52.1	NA	32.7	NA	28.4	56.3	57.8	60.6	
08/31/2011	57.6	59.3	66.2	59.5	69.9	66.2	48	48.1	39.3	29.1	NA	44.5	58.1	59	60.4	
Mo.DNL	56.3	57.6	62.7	60.9	68.8	69.4	59.6	58.2	39	46.9	39.8	38.1	54.1	59.4	57.9	