

I-64 Incident Command Monthly Report October 2008

AM and PM Peak Periods

Incident Management

Overall, in October, there were over 1279 incidents impacting traffic, a decrease over September 2008. These incidents included stalls, crashes, abandoned vehicles, and vehicle fires. With traffic volumes relatively stabilized, the main contributing factor that impacts the freeways is incidents.

Freeway Management

The following segments are a representation of the traffic volume changes and travel times during the a.m. and p.m. rush periods. Attached are detailed charts for each interstate.

Travel times remain relatively the same across the months. All increases in the average upper limit are attributed to incidents.

Summary of Morning Rush Period:

Segment	% Volume Change										
	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	
I-270 westbound at Chain of Rocks	30%	15%	30%	20%	10%	-20%	-25%		-10%	30%	
I-270 northbound from I-55 to I-44	10%	5%	5%	5%	10%	10%	10%	10%	10%	10%	
I-270 northbound from I-44 to I-64	25%	20%	20%	20%	15%	-5%	-15%	-20%	-20%	-15%	
I-255 eastbound at Jefferson Barracks	80%	70%	75%	85%	85%	75%	85%	70%	75%	70%	
I-70 eastbound from I-270 to I-170	15%	10%	-5%	10%	-5%	45%	15%	-40%	20%	25%	
I-70 eastbound from I-170 to downtown	-5%	-15%	-10%	0%	-5%	-10%	-20%	-10%	5%	10%	
I-44 eastbound from I-270 to downtown	-20%	-20%	-25%	-25%	-15%	-10%	-15%	-15%	-10%	-10%	

Peak Hr Vol										
Before	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct
4099	5231	4694	5376	4876	4554	3253	3173		3689	5329
4620	4990	4989	4966	4876	5072	5160	5126	5204	5082	5082
4778	5953	5800	5840	5652	5521	4348	4070	3806	3823	4062
1088	1976	1856	1885	2853	2009	3292	2015	1875	1904	1850
3236	3759	3610	3049	3516	3064	4704	4669	2864	3884	4045
4421	4113	3780	3677	3976	4244	4086	3628	3954	4642	4863
3590	2902	2948	2727	2703	3098	3222	3045	3493	3231	3231

Travel Times												
Before	January	February	March	April	May	June	July	Aug	Sept	Oct		
10min	9-11min	10-13min	9-13min	9-13min	9-13min	9-11min	9-11min	9-11min	9-11min	9-11min	9-11min	9-11min
6min	6-10min	6-10min	6-16min	6-13min	6-14min	6-7min	6min	6-10min	6-20min	6-12min	6min	6-12min
7min	7-9min	7-10min	7-10min	7-10min	7-10min	7-9min	7-8min	7-8min	7-9min	7-8min	7-9min	7-8min
4min	4min	4min	4min	4min	4min	4min	4min	4min	4min	4min	4min	4min
4min	4min	4-5min	4min	4min	4min	4min	4min	4min	4min	4-5min	4-5min	4-5min
11min	11-16min	11-23min	11-15min	10-14min	10-13min	11-14min	11-17min	11-17min	11-16min	11-14min	11min	11-14min
16min	14min	14-15min	14-16min	14-15min	14min	14min	14min	14min	14min	14min	14min	14min

Summary of Evening Rush Period:

Segment	% Volume Change									
	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct
I-270 eastbound at Chain of Rocks	40%	30%	40%	30%	50%	45%	45%		45%	-5%
I-270 southbound from I-64 to I-44	5%	5%	-5%	0%	10%	10%	5%	10%	5%	5%
I-255 eastbound at Jefferson Barracks	-45%	-45%	-40%	0%	-35%	-40%	-45%	-35%	-40%	-40%
I-70 westbound from I-270 to I-170	60%	60%	60%	50%	45%	40%	-15%	40%	50%	55%
I-70 westbound from I-170 to downtown	-20%	-20%	-10%	0%	-35%	-30%	-35%	-30%	-5%	20%
I-44 westbound from I-270 to downtown	20%	15%	10%	15%	20%	20%	20%	30%	25%	30%

Peak Hr Vol										
Before	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct
4398	6148	6082	6034	5764	6518	4983	6281		6377	4178
5366	5629	5053	5230	5256	5799	5618	5638	5858	5634	5634
2693	1548	1459	1557	2545	1801	1631	1530	1706	1637	1616
2875	5043	5005	5093	4745	4583	4425	4358	4549	4312	4455
5357	4409	4198	4128	4297	3555	3630	3489	3687	5089	6428
3992	4674	4616	4455	4560	4876	4796	4732	5647	4990	5190

Travel Times												
Before	January	February	March	April	May	June	July	Aug	Sept	Oct		
12min	12-22min	13-28min	12-29min	12-30min	12-20min	12-19min	12-19min	12-34min	12-21min	12-27min	12min	12-27min
9min	7-19min	7-23min	7-26min	7-23min	7-21min	7-24min	7-22min	7-20min	7-21min	7-20min	7min	7-20min
4min	4min	4min	4min	4min	4min	4min	4min	4min	4min	4min	4min	4min
4min	4min	4-6min	4-6min	4-6min	4min	4min	4min	4min	4min	4min	4min	4-6min
12min	11-18min	11-21min	11-15min	11-14min	11-13min	11-15min	11-12min	11-24min	11-15min	11-12min	11min	11-12min
16min	14-16min	14-16min	14-25min	14-16min	14min	14-16min	14min	14min	14min	14min	14min	14min

I-70 Reversible Lanes

The reversible lanes on I-70 have traditionally operated in the eastbound direction during the a.m. hours, and in the westbound direction during the p.m. hours. Their operation was switched on January 8 to mitigate significant travel delays in the westbound direction during the a.m. peak, and in the eastbound direction during the p.m. peak. On holidays and snow events, the Reversible Lanes are set in the eastbound direction.

The graphic and tables below continue to support the change in reversible lane operation. It can be seen that the direction that has the reversible lanes available will always carry a higher volume than the opposite direction (which does not have the additional capacity provided by the reversible lanes) for any given direction and peak period.

Directional Difference in Volume (EB vs. WB)				
	A.M.		PM	
(Baseline) EB in A.M., WB in PM	571	more EB	8561	more WB
(Jan 2 - Jan 7) EB in A.M., WB in PM	323	more EB	2306	more WB
(Jan 9 - Jan 24) WB in A.M., EB in PM	732	more WB	1120	more EB
(Feb 1 - Feb 29) WB in A.M., EB in PM	2607	more WB	3574	more EB
(Mar 1 - Mar 31) WB in A.M., EB in PM	1382	more WB	1877	more EB
(Apr 1 - Apr 30) WB in A.M., EB in PM	2308	more WB	3503	more EB
(May 1 - May 31) WB in A.M., EB in PM	1746	more WB	5450	more EB
(June 1 - June 30) WB in A.M., EB in PM	1735	more WB	2194	more EB
(July 1 - July 31) WB in A.M., EB in PM	3004	more WB	878	more EB
(Aug 1 - Aug 31) WB in A.M., EB in PM	1877	more WB	2230	more EB
(Sep 1 - Sep 30) WB in A.M., EB in PM	3138	more WB	2749	more EB
(Oct 1 - Oct 31) WB in A.M., EB in PM	2758	more WB	1874	more EB

Conclusion:

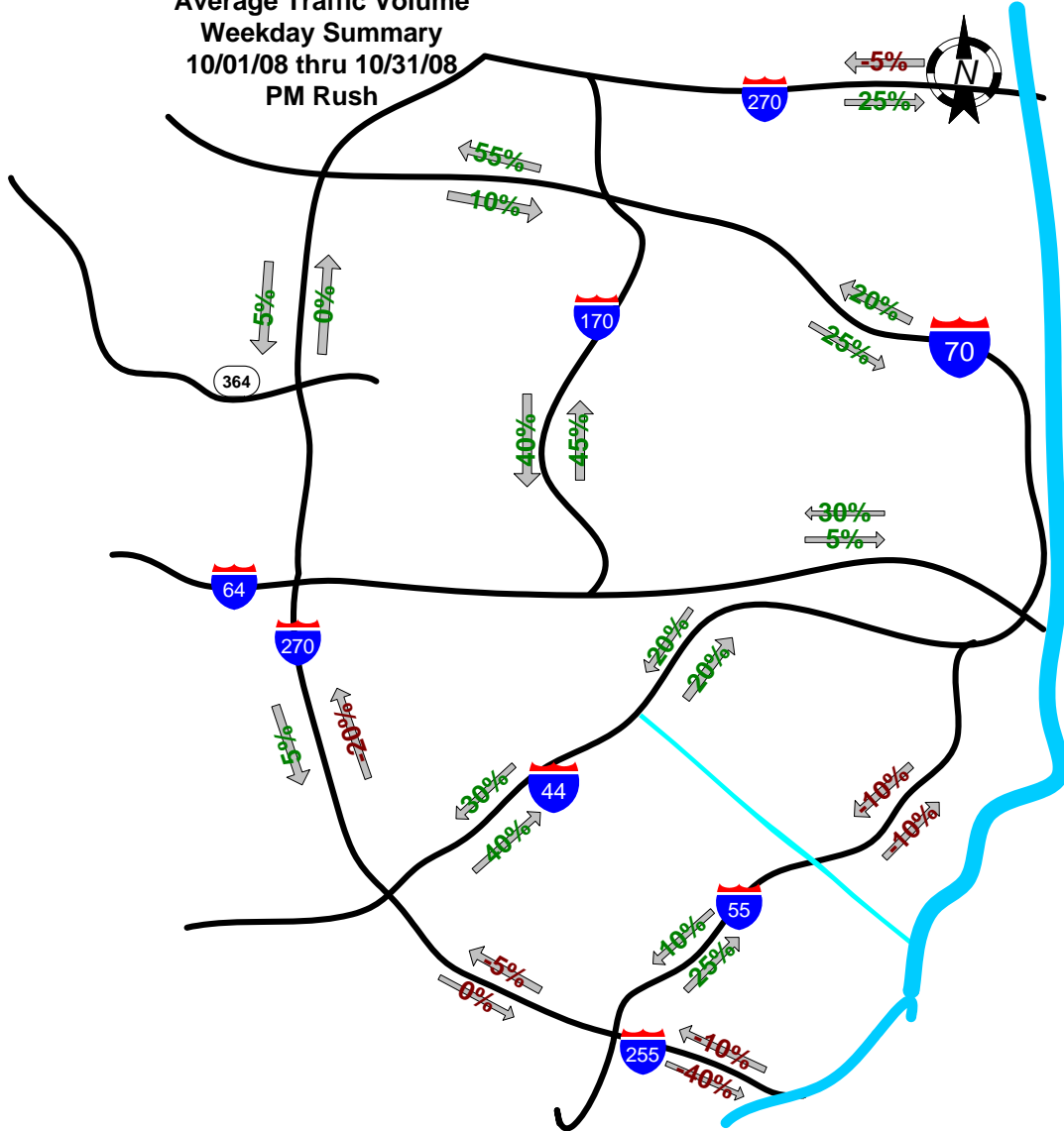
- Westbound a.m. volume was 2758 vehicles higher than eastbound a.m. volume, an average of 690 vehicles per each hour during the peak rush period.
- Eastbound p.m. volume was 1874 vehicles higher than westbound p.m. volume, an average of 469 vehicles per each hour during the peak rush period.
- An increase in a.m. volume and slight decrease in p.m. volumes on I-70 compared to September 2008.

Regional Average Traffic Volume Comparisons

Following are map views of the Average Monthly Traffic Volumes (a.m. and p.m. Rush periods) compared to average baseline volumes from October 2007. The percentage change was derived using data from MoDOT sensors and Traffic.com sensors.

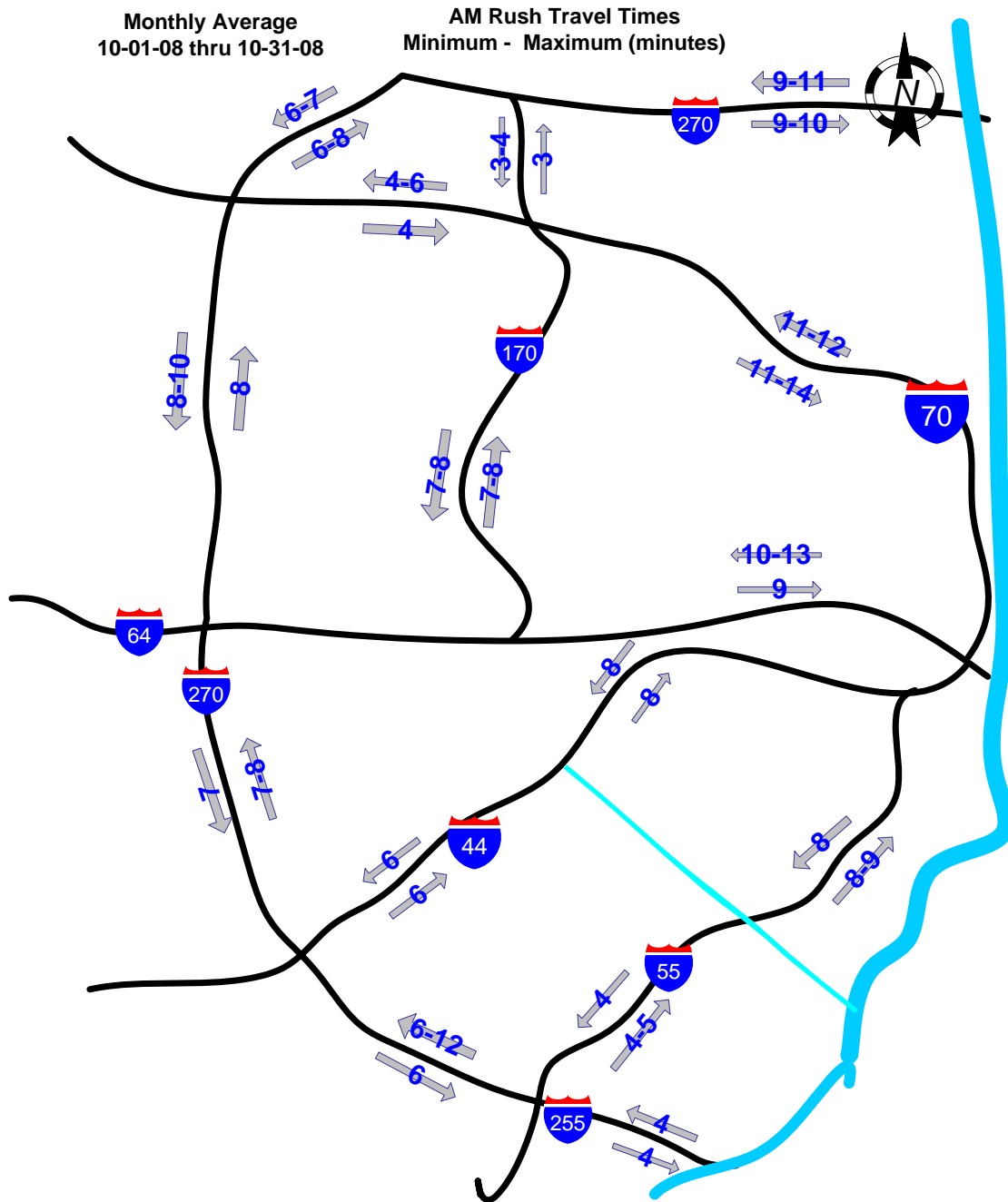


Average Traffic Volume
 Weekday Summary
 10/01/08 thru 10/31/08
 PM Rush



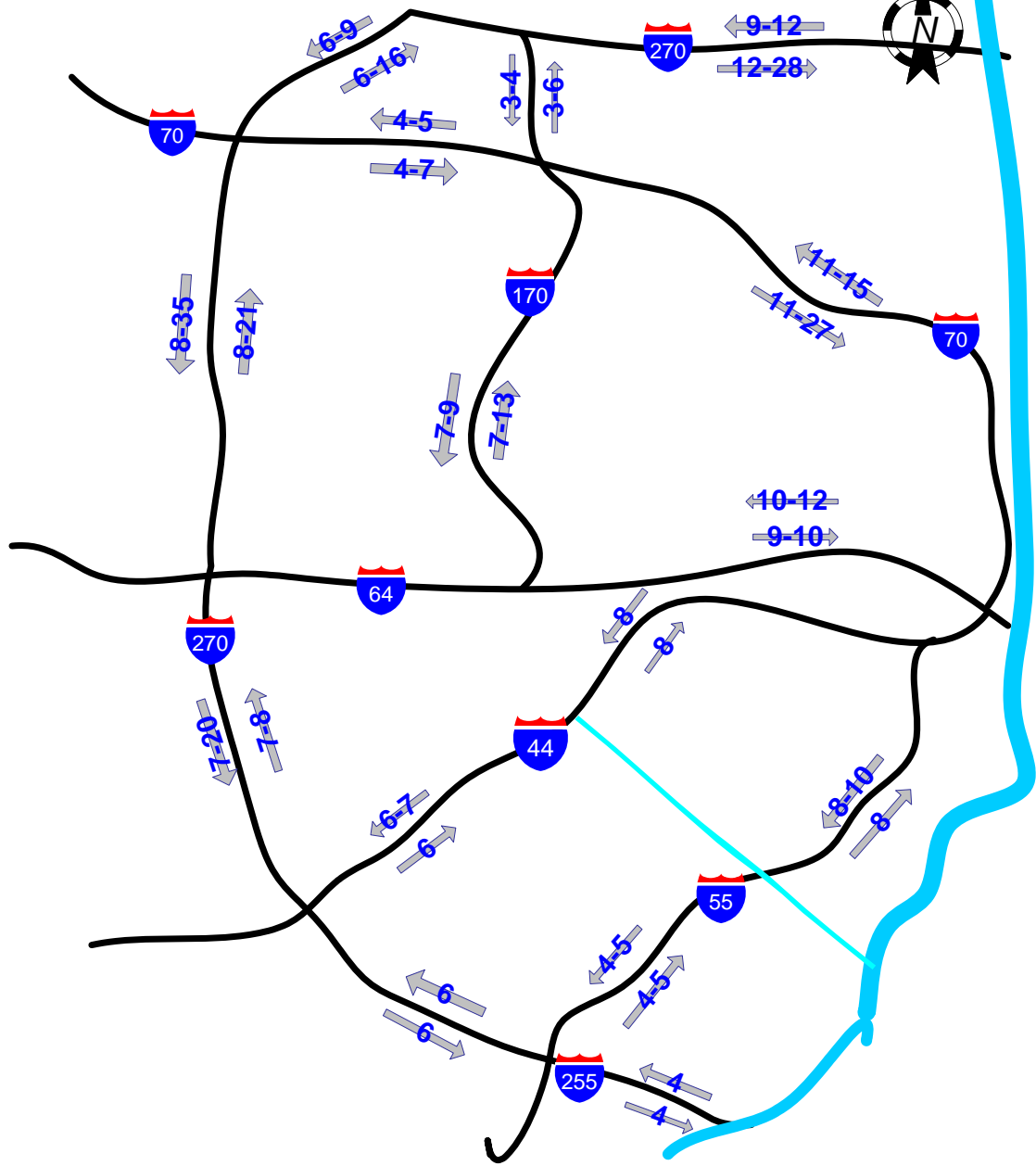
Regional Travel Times

Following are maps that depict the Average Travel Time experienced throughout the month of March. There is a map for the a.m. Rush Period and the p.m. Rush Period.



Monthly Average
10-01-08 thru 10-31-08

PM Rush Travel Times
Minimum - Maximum (minutes)



Arterials

The following segments are a representation of the traffic volume changes and travel times during the a.m. and p.m. rush periods. On the arterials, the peak travel times are from 7:30 – 8:30 during the a.m. peak and 4:30 to 5:30 during the p.m. peak.

Volumes

Summary of Morning Rush Period Volumes:			
Segment	Volume percent change	Peak Hr Vol	
		Before	October
Route 141 North of I-44	0%	7400	7200
Page at Schuetz	15%	7300	8400
Olive at Ballas	70%	3100	5600
Manchester at Braeshire	5%	5400	5600
Southbound Lindbergh at Conway	-25%	3400	2500
Northbound Lindbergh at Conway	-25%	4600	3400

Summary of Evening Rush Period Volumes:			
Segment	Volume percent change	Peak Hr Vol	
		Before	October
Route 141 North of I-44	-10%	8900	7900
Page at Schuetz	20%	8900	10600
Olive at Ballas	20%	6500	8100
Manchester at Lindbergh	20%	2600	3100
Southbound Lindbergh at Conway	-35%	7700	5300
Northbound Lindbergh at Conway	-30%	5100	3600

Travel Times

Summary of Morning Rush Period Travel Times				
Segment	Travel Times at 7:30 A.M.		Travel Times at 6:30 A.M.	Time Saved by Shifting 1 hour
	Before	Oct.	October	
	Route 141 – 44 to 40/64	14 min	13 min	11 min
Page – 270 to 170	13 min	14 min	10 min	4 min
Olive – 141 to 170	22 min	18 min	13 min	5 min
Manchester – 141 to Hanley	25 min	20 min	18 min	2 min
SB Lindbergh – 70 to 44	25 min	23 min	19 min	4 min
NB Lindbergh – 44 to 70	29 min	32 min	24 min	8 min

Summary of Evening Rush Period Travel Times				
Segment	Travel Times at 4:30 PM		Travel Times at 3:30 PM	Time Saved by Shifting 1 hour
	Before	Oct.	October	
	Route 141 – 40/64 to 44	19 min	15 min	13 min
Page – 170 to 270	13 min	12 min	10 min	2 min
Olive – 170 to 141	20 min	18 min	16 min	6 min
Manchester – Hanley to 141	39 min	25 min	27 min	-2 min
SB Lindbergh – 44 to 70	33 min	26 min	25 min	1 min
NB Lindbergh – 70 to 44	29 min	30 min	26 min	4 min