

# MISSISSIPPI

## TRANSPORTATION MANAGEMENT CENTER

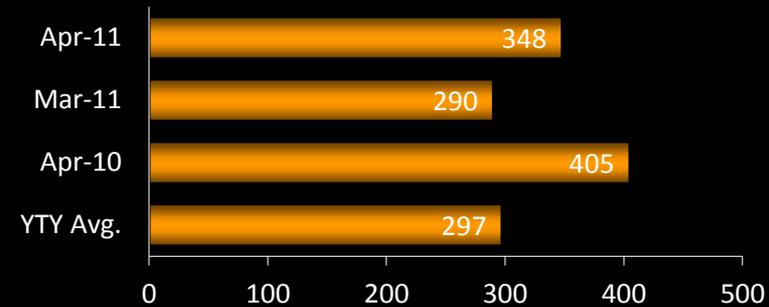
### April 2011 Performance Measures



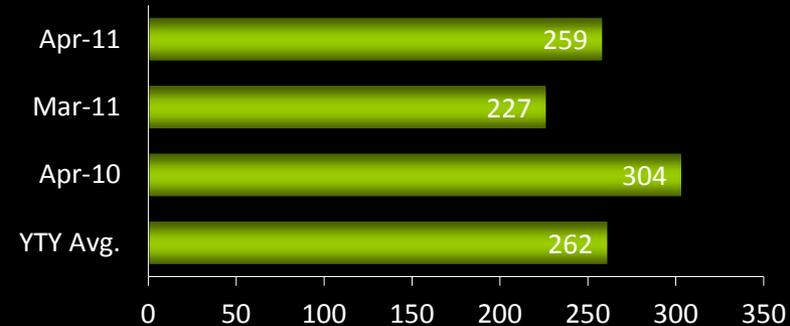
### MONTHLY HIGHLIGHT

Severe weather was the most significant highlight during the month. We experienced several severe storms that produced several tornadoes and numerous tornado warnings across the state. The storms occurred on April 4<sup>th</sup>, 15<sup>th</sup>, and 27<sup>th</sup>. You will notice a corresponding spike in website activity on page 4 of this report. We sent out a total of 41 weather alerts during the month associated with these storms. On April 15<sup>th</sup> a tornado touched down in Clinton, MS just off of interstate I-20 and resulted in an accident on I-20 which closed the interstate to westbound traffic for approximately 2 hours and 15 minutes.

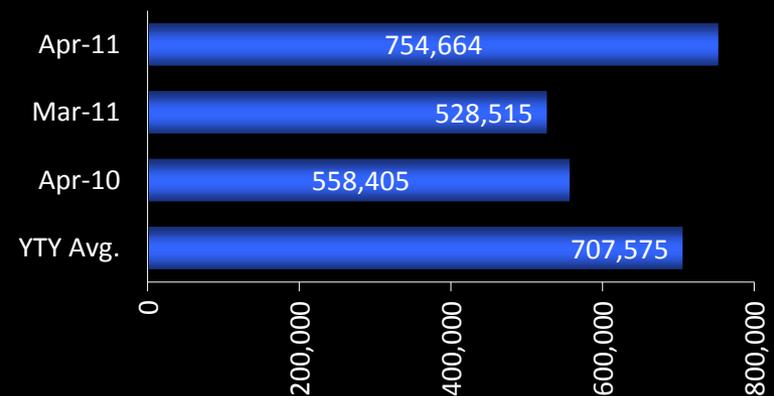
### Total Incidents



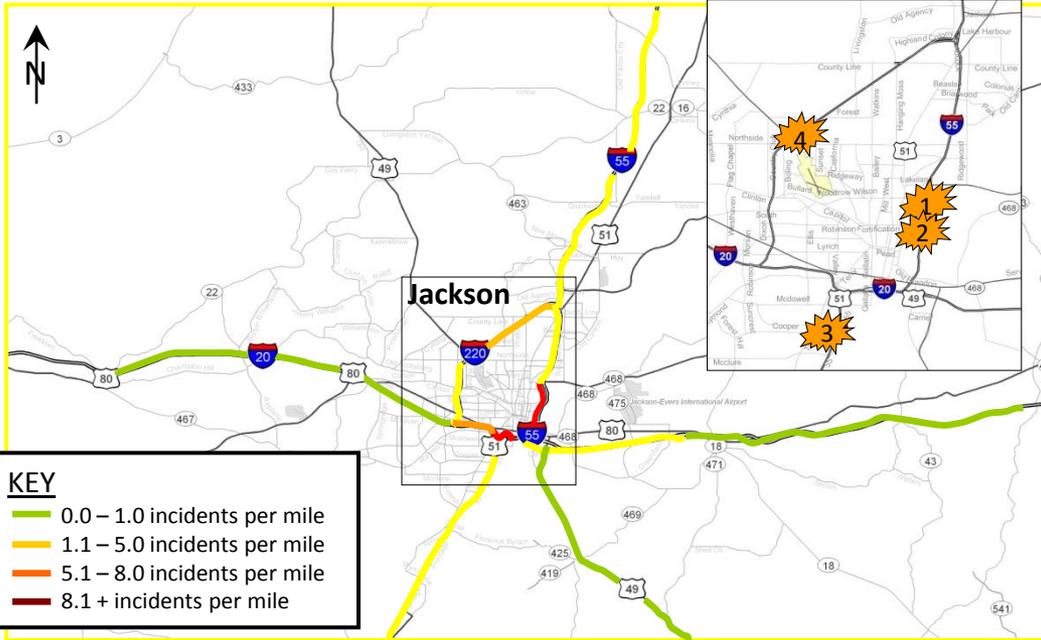
### Total Alerts



### Total Web Site Page Views



# TMC Managed Incidents Per Mile



**KEY**

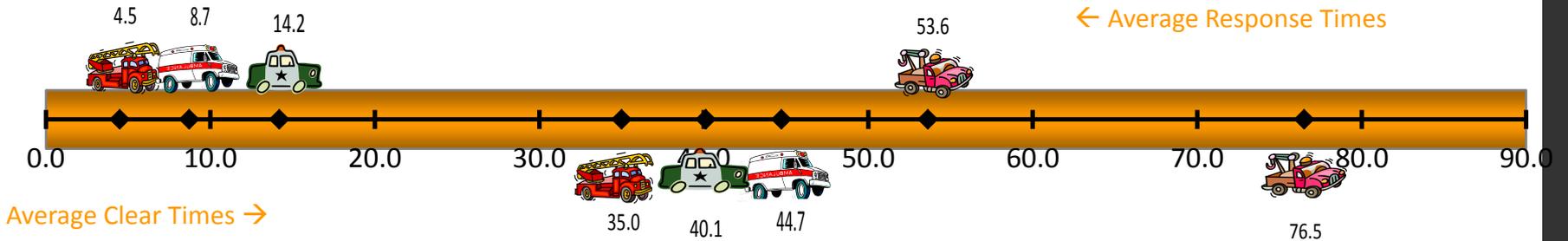
- 0.0 – 1.0 incidents per mile
- 1.1 – 5.0 incidents per mile
- 5.1 – 8.0 incidents per mile
- 8.1 + incidents per mile

# Incident Hot Spots

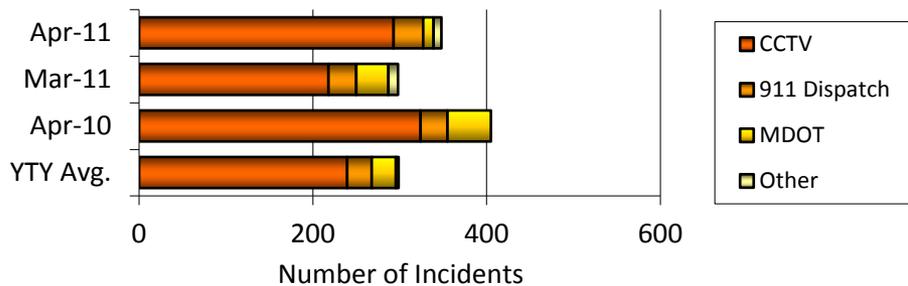
Rank	Location (Direction Freeway @ Cross Street)	# of Incidents
1	NB I-55 @ Fortification St	17
2	SB I-55 @ Fortification St.	12
3	NB I-55 @ Siwell Rd	11
4	NB I-220 @ Hwy 49/Medgar Evers Blvd	11
5	EB I-20 @ Gallatin/ State St.	10
6	NB I-55 @ Savannah St	10
7	SB I-220 @ Hwy 49 / Medgar Evers	9
8	SB I-55 @ Hwy 25 / Lakeland Dr	9
9	SB I-55 @ Woodrow Wilson Ave	9
10	EB I-20 @ Hwy 49S	8

Note: Highlighted locations are mapped based on # of Incidents.

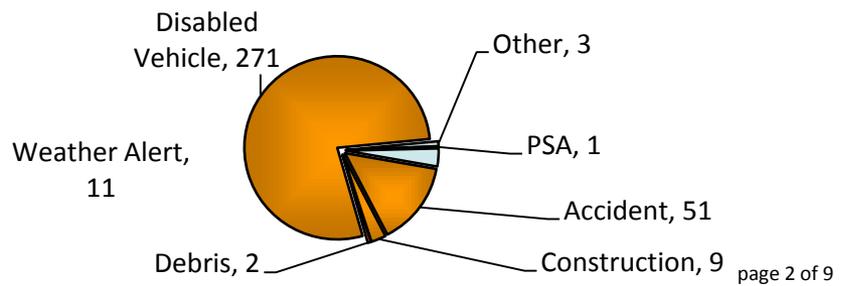
# Average Incident Timeline



# Incidents by Source Detected



# Incidents by Type

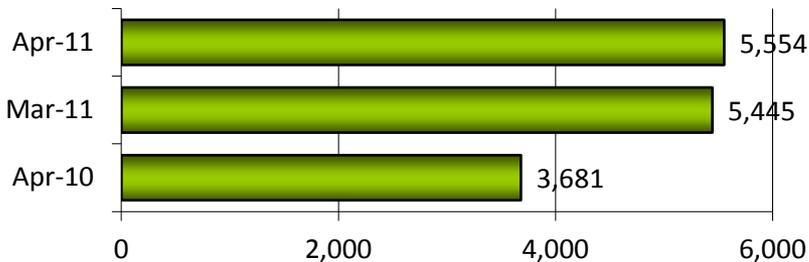


incidents

## What is an Alert?

The Mississippi Transportation Management Center has the ability to send notifications in the form of e-mail or text message to registered users regarding incidents or events that affect operations along the freeways. These notifications are known as "Alerts." To receive these alerts, go to [www.mstraffic.com](http://www.mstraffic.com) and click on "Register."

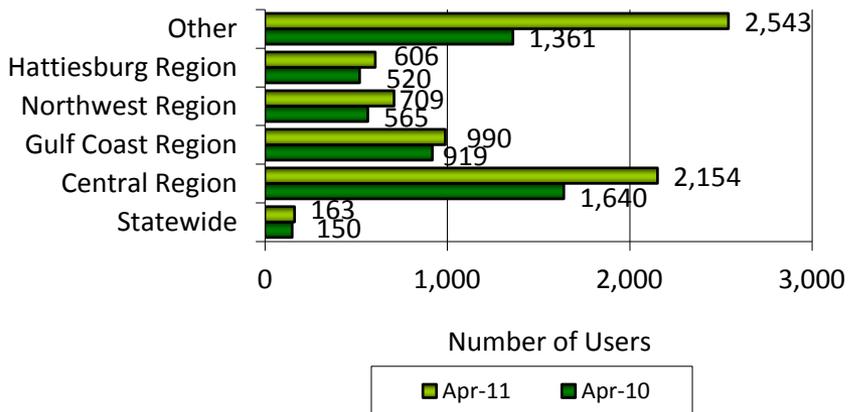
## Total Registered Alert Users



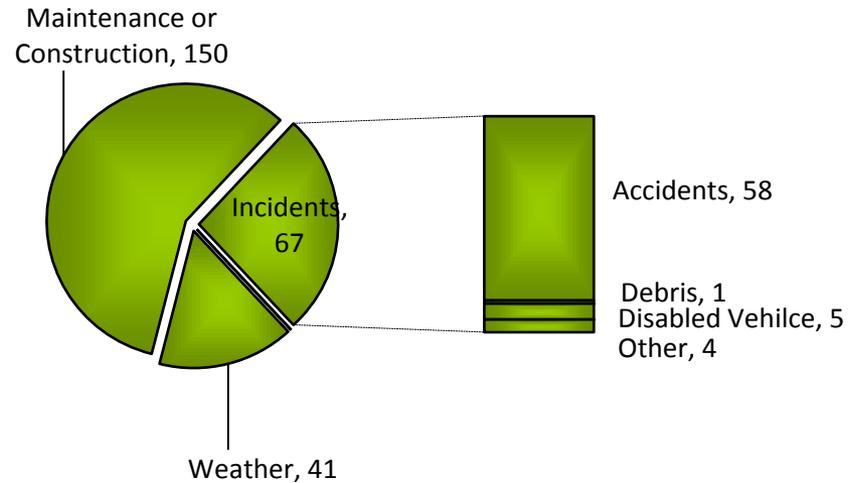
This month 181 new users registered to receive alerts.

This month 72 existing users unregistered.

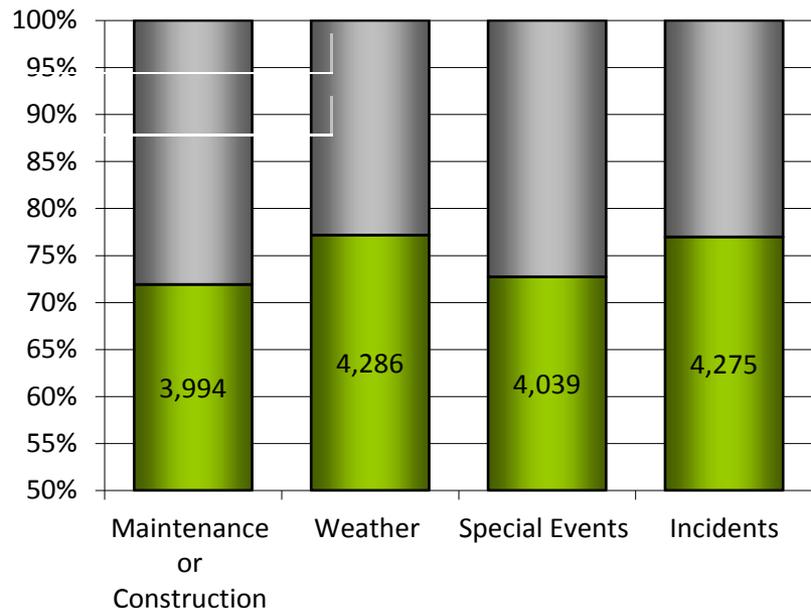
## Registered Users by Location



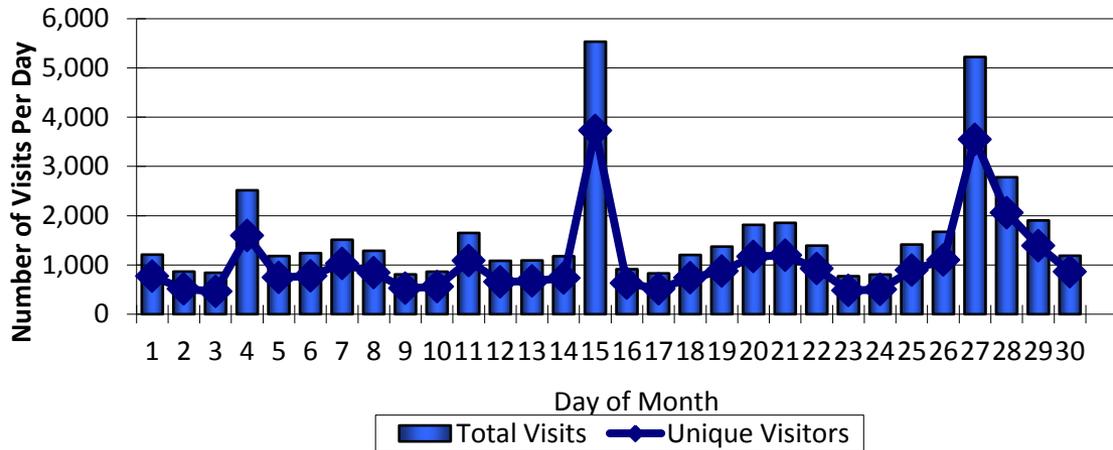
## Alerts by Type



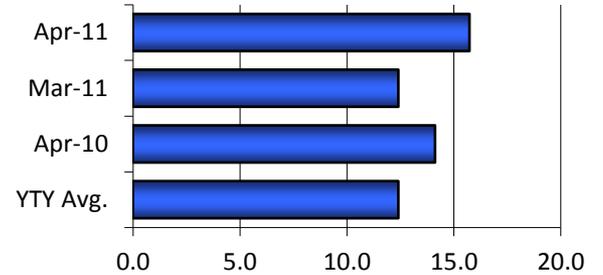
## Registered Users by Alert Type



## Web Site Visits per Day



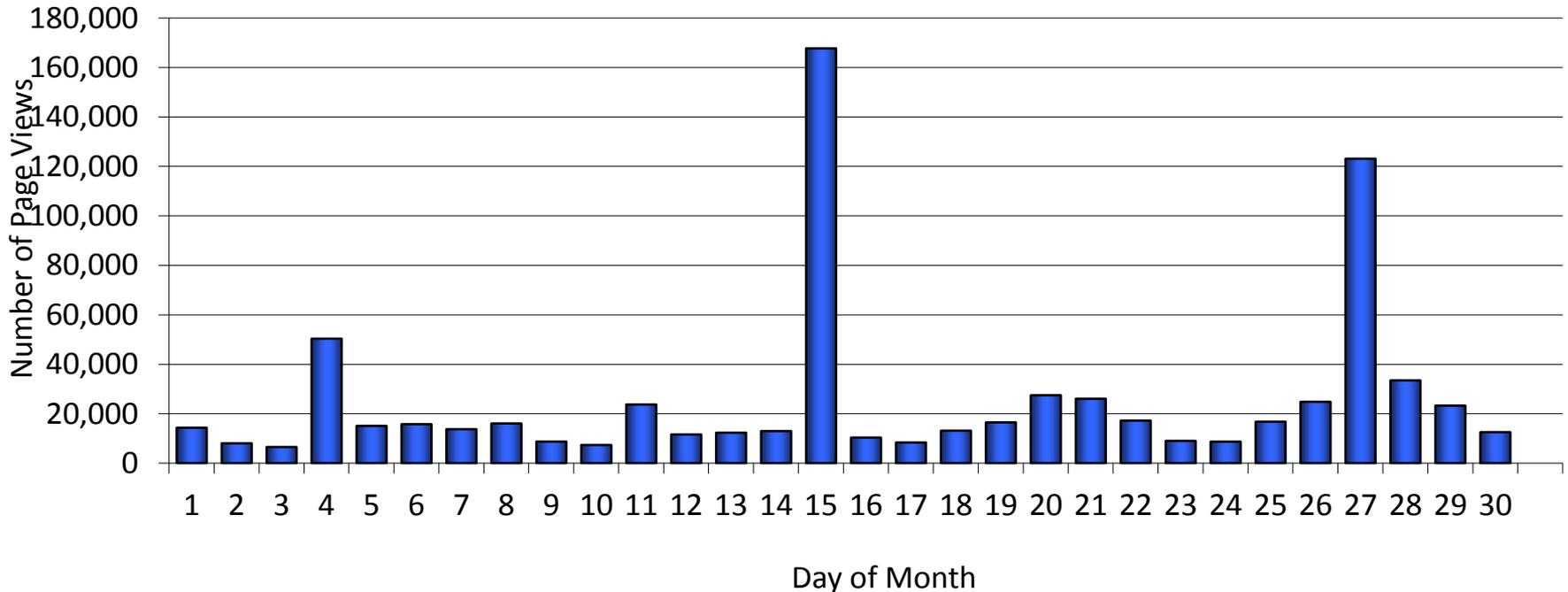
## Average Page Views Per Visit



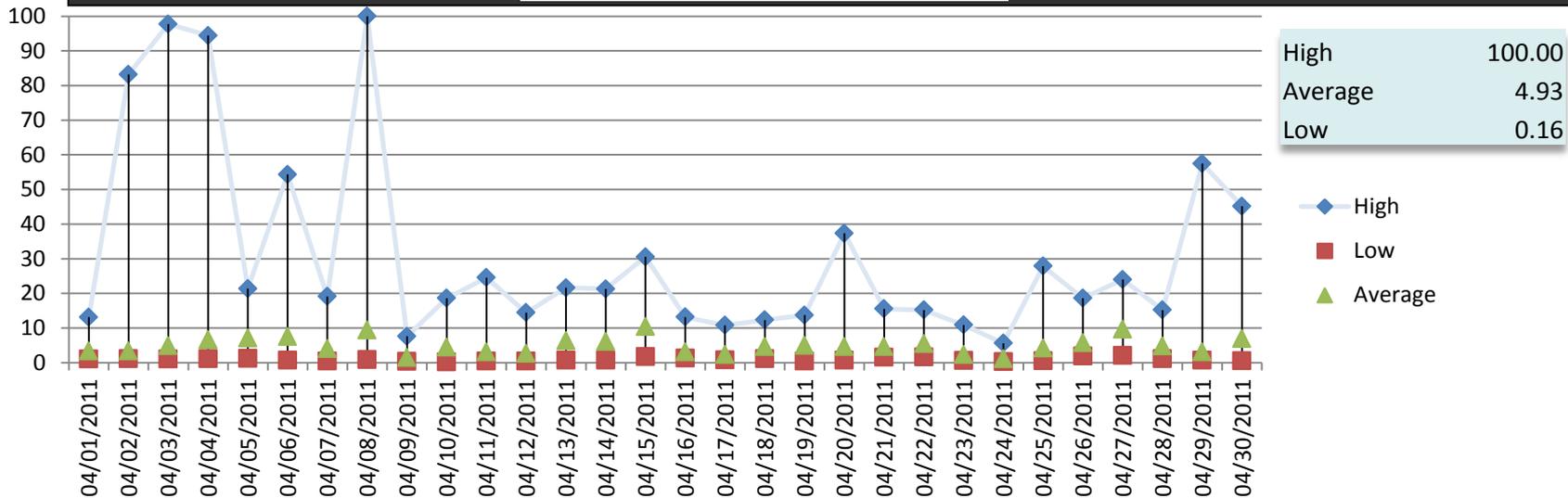
## Average Stay Length Per Visit

This month, the average stay length per visit was 12.7 minutes.

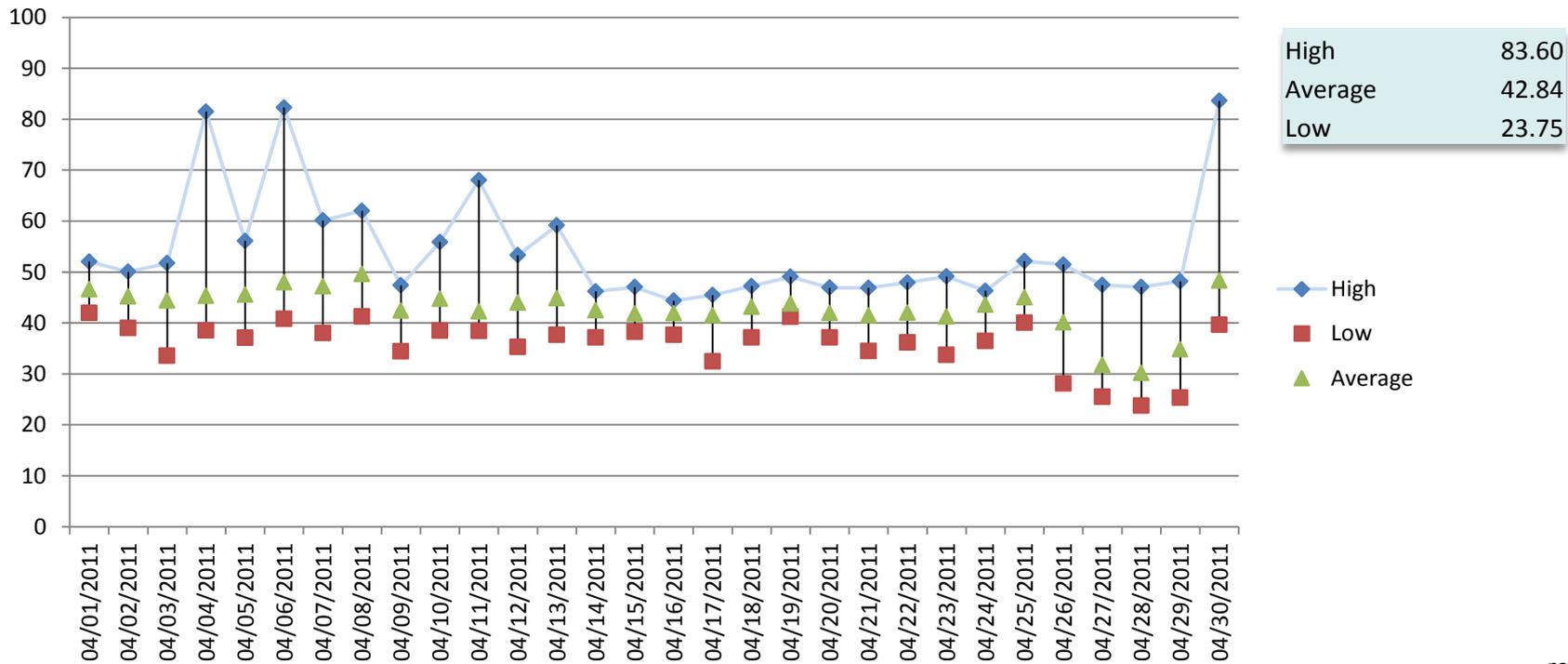
## Web Site Page Views per Day



## Internet Bandwidth Traffic



## Camera Bandwidth Traffic



# data key

## COVER (page 1)

### Monthly Highlight

**Description:** The cover page provides a general summary of the month. The information portrayed in the “Monthly Highlight” section changes from month to month.

**Data Source:** TMC Operator’s and Manager’s Logs.

### Total Incidents

**Description:** This graph compares the total number of incidents managed by the control room in current month, previous month, current month last year, and the average monthly total over Year to Year (YTY) which includes the previous twelve months of data.

**Data Source:** Incident Tracking Database

### Total Alerts

**Description:** This graph compares the total number of alerts sent in the current month, previous month, current month last year, and the average monthly total over Year to Year (YTY) which includes the previous twelve months of data.

**Data Source:** MS Traffic User Stats Monthly Report

### Total Web Site Page Views

**Description:** This graph compares the total number of pages that were viewed on the [www.mstraffic.com](http://www.mstraffic.com) Web site in the current month, the previous month, the current month last year, and the average monthly total over the last twelve months. A page view is counted every time a visitor opens a page within the [www.mstraffic.com](http://www.mstraffic.com) Web site.

**Data Source:** Web Log Analyzer Monthly Report

## INCIDENTS (page 2)

### TMC Managed Incidents Per Mile

**Description:** This map shows the density of incidents that occur along MDOT monitored roadways in the greater Jackson area. The number of incidents is shown as a density to provide a consistent measure between roadways. The roadways are divided into segments where the major roadways intersect.

**Data Source:** Incident Tracking Database

### Incident Hot Spots

**Description:** This table lists the top ten locations (assigned by the nearest cross street) where the greatest number of incidents occurred per month. The top incident hot spots are shown on the map inset.

**Data Source:** Incident Tracking Database

### Incident Average Duration

**Description:** This graphic shows the average response and clear times for incident response vehicles for a small sampling of incidents. The response and clear times for police, fire, ambulance, tow, and MDOT vehicles are shown. Response Times are the time of arrival to the scene minus the time of incident detection by the TMC. Clear Times are the time of incident clearance minus the time of responder arrival to the scene. Response Times greater than 120 minutes and Clear Times greater than 180 minutes are filtered from the data to remove extreme cases that skew the data.

**Data Source:** Incident Tracking Database

### Incidents by Source Detected

**Description:** This graph shows the number of incidents that were found by closed-circuit (CCTV) cameras, 911 Dispatch (MS Highway Patrol, County Sheriff’s Office, Local Police & Fire), MDOT, or other sources. Totals for the current month, the previous month, the current month last year, and the monthly average over Year to Year (YTY) which includes the previous twelve months of data.

**Data Source:** Incident Tracking Database

### Incidents by Type

**Description:** This chart shows the distribution of incidents by type for the current month. Construction, Disabled Vehicles, and Accidents account for the majority of all incidents. “Other” incidents include Vehicle Fire, Debris, HAZMAT, AMBER Alerts, Weather, and Congestion type incidents. The number of secondary incidents will appear next to the chart if not less than 1% of the total number of incidents. A secondary incident is an incident that occurred as a result of another incident.

**Data Source:** Incident Tracking Database

# data key

## ALERTS (page 3)

### Total Registered Users

**Description:** This graph compares the total number of users that are registered to receive alerts in the current month, the previous month, and the current month last year. The number of users that either registered or unregistered in the current month is also shown in the text below the graph.

**Data Source:** MS Traffic User Stats Monthly Report

### Registered Users by Location

**Description:** This graph shows the breakdown of registered users based on location. The location refers to the location of the event to which the alert is referring, not the location of the user. The location is further defined by the counties that make up each Regional TMC's coverage area. The current month and the current month last year are compared.

Central Region: Copiah, Hinds, Madison, Rankin, Simpson counties

Gulf Coast Region: Hancock, Harrison, and Jackson counties

Northwest Region: Desoto, Marshall, Tate, and Tunica counties

Hattiesburg: Forrest, Jones, Lamar, and Perry counties

Statewide: Users registered for every county in the state

Other: All counties other than above

**Data Source:** MS Traffic User Stats Monthly Report

### Alerts by Type

**Description:** This graph shows the distribution of alerts by type for the current month. Accident, Incident, and Maintenance or Construction alerts comprise the majority of alerts.

**Data Source:** MS Traffic User Stats Monthly Report

### Registered Users by Alert Type

**Description:** This graph provides the percentage and total number of registered users that receive maintenance or construction, weather, special event, or incident alerts for the current month based upon current subscriber statistics.

**Data Source:** MS Traffic User Stats Monthly Report

## WEB SITE (page 4)

### Web Site Visits Per Day

**Description:** This graph shows the total number of visits to the [www.mstraffic.com](http://www.mstraffic.com) Web site per day for the current month. A "visit" is counted when the Web site is accessed, regardless of the number of pages viewed within the site. The graph also shows the number of unique visitors per day. A unique visitor is identified by the IP address of the computer used to access the Web site. If a unique visitor returns to the Web site within thirty minutes of the original visit, only 1 visit is counted.

**Data Source:** Web Log Analyzer Monthly Report

### Average Page Views Per Visit

**Description:** This graph shows the average number of pages viewed within the [www.mstraffic.com](http://www.mstraffic.com) Web site during one visit. The current month, the previous month, the current month last year, and the monthly average over Year to Year (YTY) which includes the previous twelve months of data are compared.

**Data Source:** Web Log Analyzer Monthly Report

### Average Stay Length Per Visit

**Description:** The average length of time spent on the [www.mstraffic.com](http://www.mstraffic.com) Web site during each visit, regardless of the number of pages viewed.

**Data Source:** Web Log Analyzer Monthly Report

### Web Site Page Views Per Day

**Description:** This graph shows the total number of pages viewed within the [www.mstraffic.com](http://www.mstraffic.com) Web site each day during the current month. The text below the graph explains any unique trends seen in the data throughout the month.

**Data Source:** Web Log Analyzer Monthly Report

# data key

## WEB SITE (page 5)

### Internet Bandwidth Traffic

**Description:** This graph displays the average bandwidth speed of our mstraffic.com internet pipeline which has a capacity of 100 megabits per second. The data is reported on a per minute basis and an average bandwidth speed is derived for each day. The high and low bandwidth speeds are also reported for each day.

**Data Source:** Paessler Prtg Network Monitor

### Camera Bandwidth Traffic

**Description:** This graph displays the average bandwidth speed of our mstraffic.com intranet camera network pipeline which has a capacity of 100 megabits per second. The data is reported on a per minute basis and an average bandwidth speed is derived for each day. The high and low bandwidth speeds are also reported for each day.

**Data Source:** Paessler Prtg Network Monitor