APPLYING THE

Crash Calendar

Calendar Data Viz

PROJECT

TRANSPORTATION RESEARCH BOARD 2013

BACKGROUND

Wisconsin's multi-disciplinary Traffic Safety Commissions

(1)(a) For each county, the county highway commissioner or a designated representative, the chief county traffic law enforcement officer or a designated representative, the county highway safety coordinator, and a representative designated by the county board from each of the disciplines of education, medicine and law and 3 representatives involved in law enforcement, highways and highway safety designated by the secretary of transportation shall comprise a traffic safety commission that shall meet at least quarterly to review traffic accident data from the county and other traffic safety related matters.

The county board chairperson, or the county executive or county administrator in a county having such offices, may appoint additional persons to serve as a member of the county traffic safety commission.

The commissions shall designate a person to prepare and maintain a spot map showing the locations of traffic accidents on county and town roads and on city and village streets if the population of the city or village is less than 5,000 and to maintain traffic accident data received from cities, villages and towns with a population of 5,000 or more under **S. 66.0485**.

Upon each review, the commission shall make written recommendations for any corrective actions it deems appropriate to the department, the county board, the county highway committee or any other appropriate branch of local government.

(1)(b) Counties may combine for the purposes of par. (a), if desired.

(1)(c) The commissions shall file a report on each meeting with the department.

(2) The department shall furnish each commission with traffic accident data and uniform traffic citation data for the rural, federal, state, and county highways in the jurisdictions represented in each commission, which shall identify the accident rates and arrest rates on their highways, and shall also furnish a suitable map for use in spotting accidents.

Wisconsin Bureau of Transportation Safety

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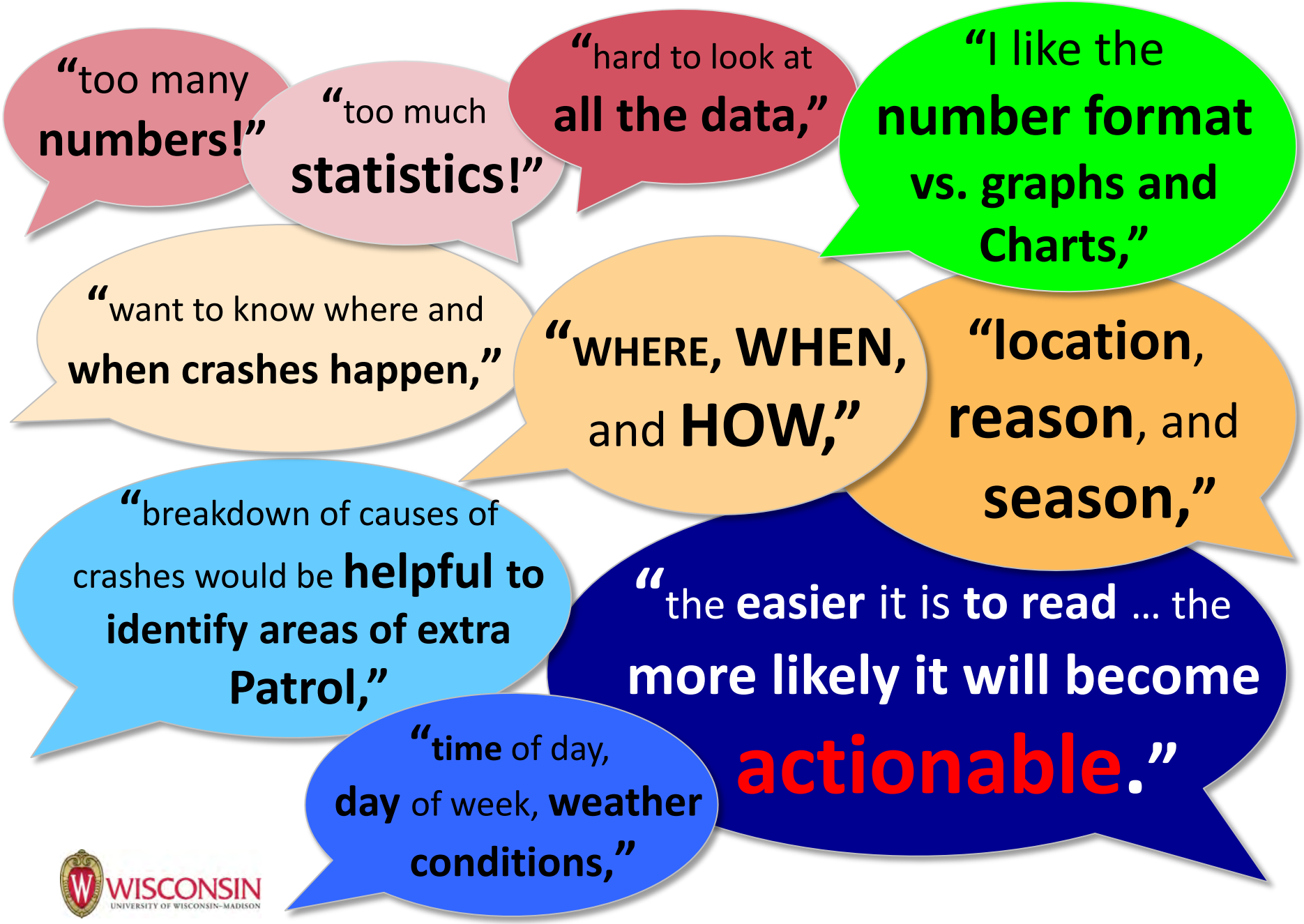

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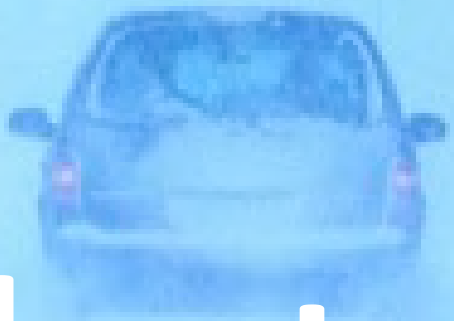

what if?

"It's a weekday and we know there's a storm coming. It's going to hit late-afternoon when a lot of people will be trying to get home from work. Where did we have the most crashes when we've had comparable storm events? If we could use our data to get at that kind of information quickly, we would be better able to deploy officers appropriately…"

– Commander Knudson

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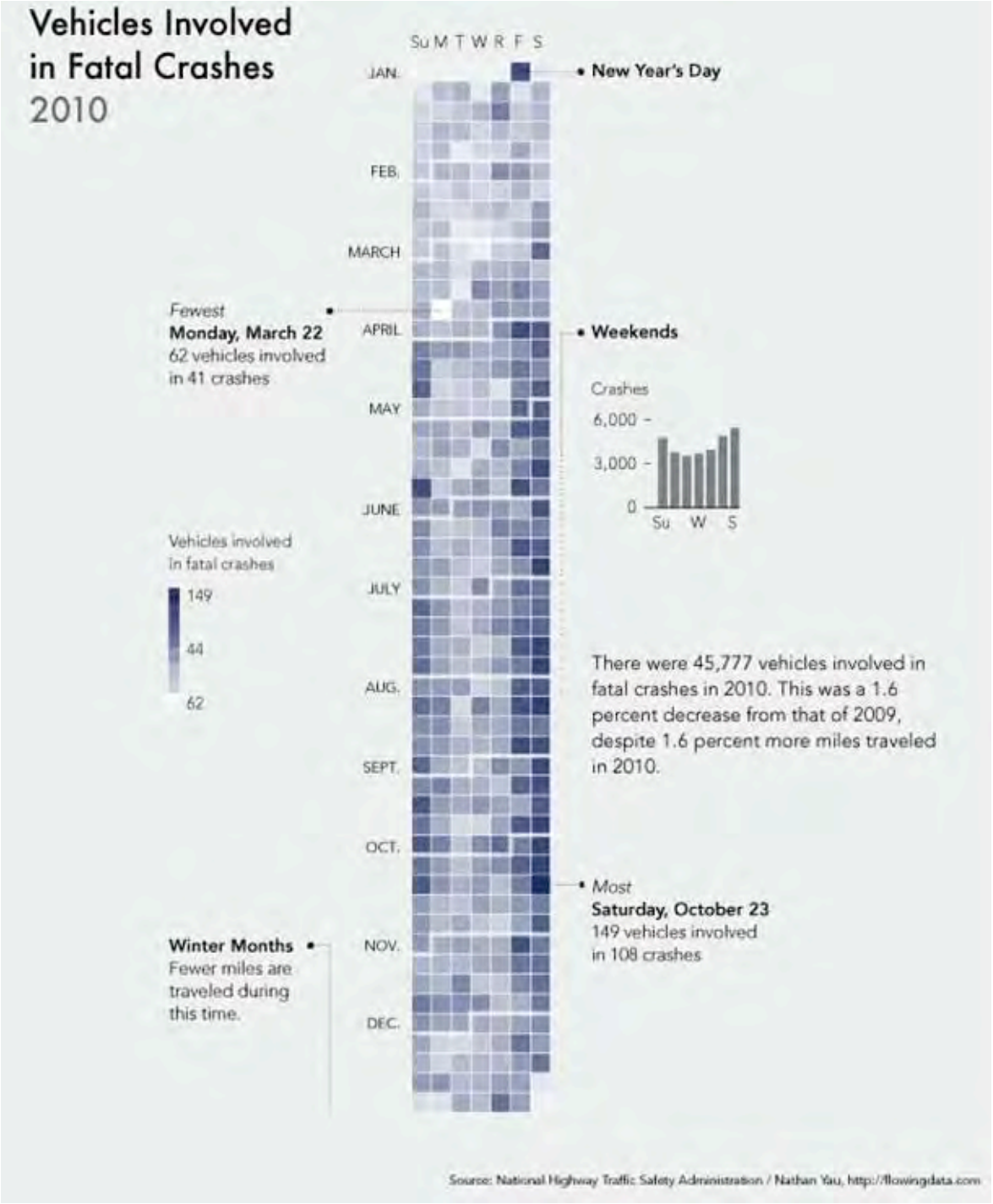

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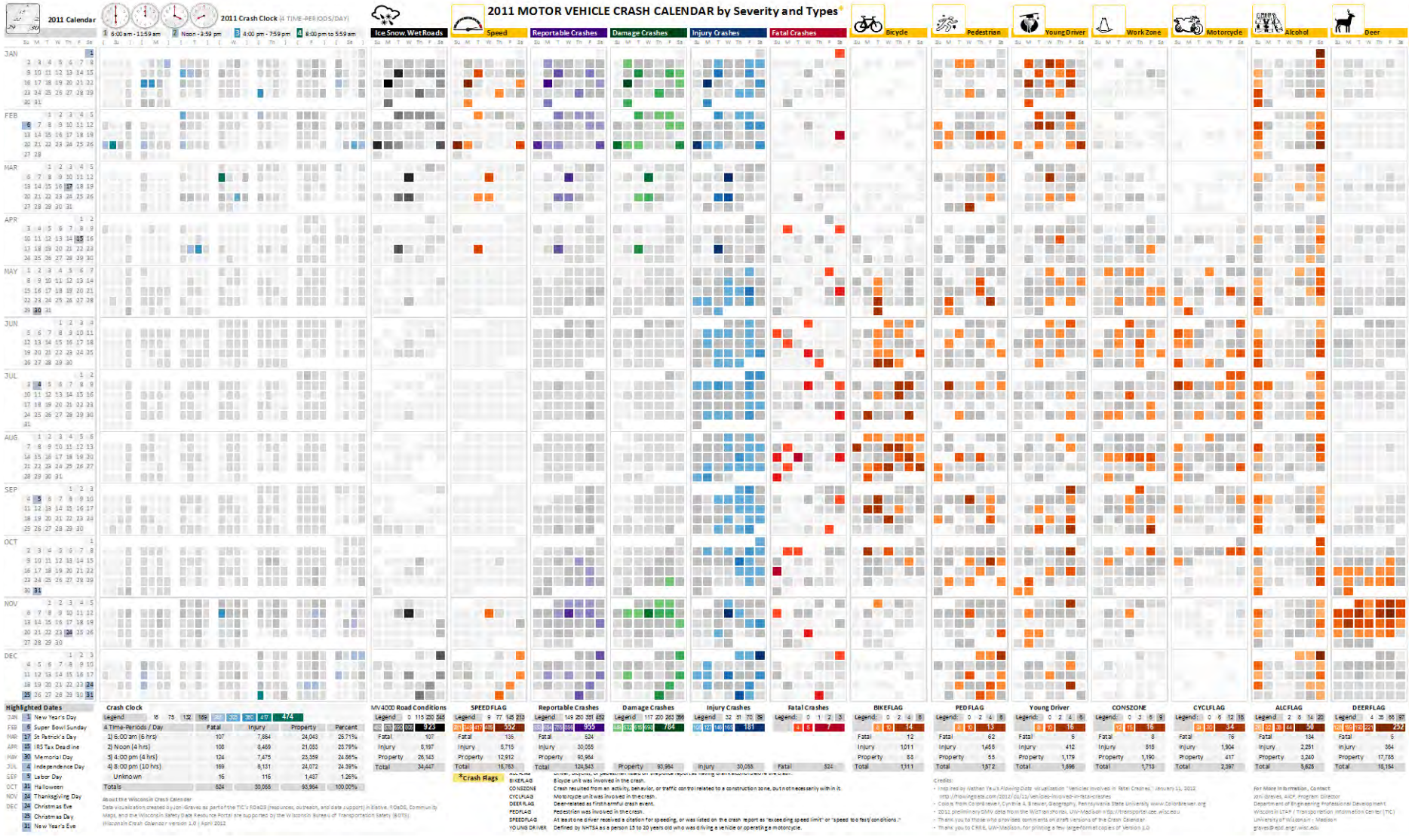
FlowingData http://flowingdata.com/2012/01/11/vehicles-involved-in-fatal-crashes/

DEVELOPMENT

DESIGNING IS THE PRACTICE OF COMBINING STUFF. SO, THE MORE STUFF YOU KNOW, THE GREATER THE CHANCE YOU'LL FIND AN ORIGINAL COMBINATION.

Mr CUP | ecrire@fabienbarral.com



BETA – 27 April 2012

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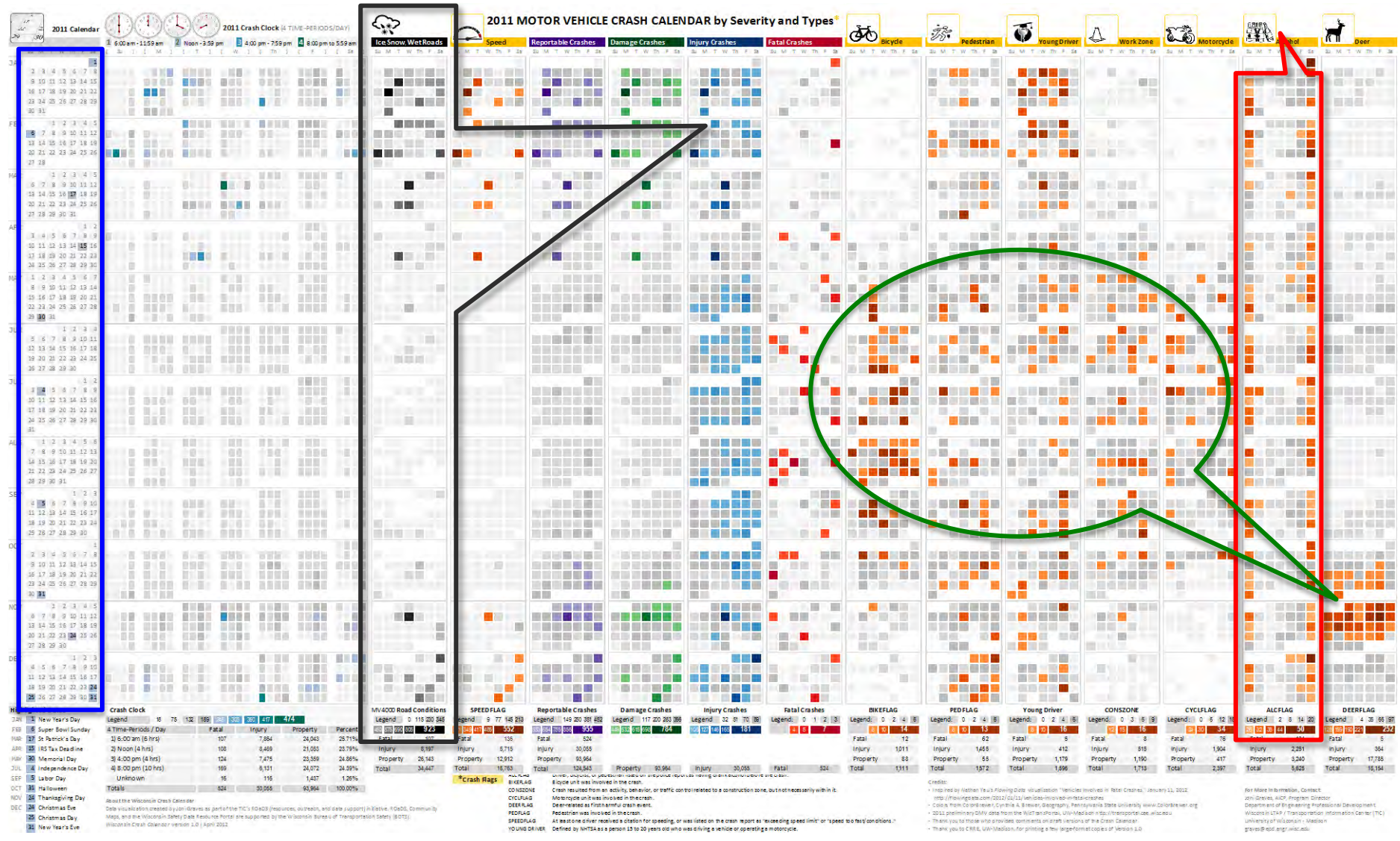

bringing data to life …

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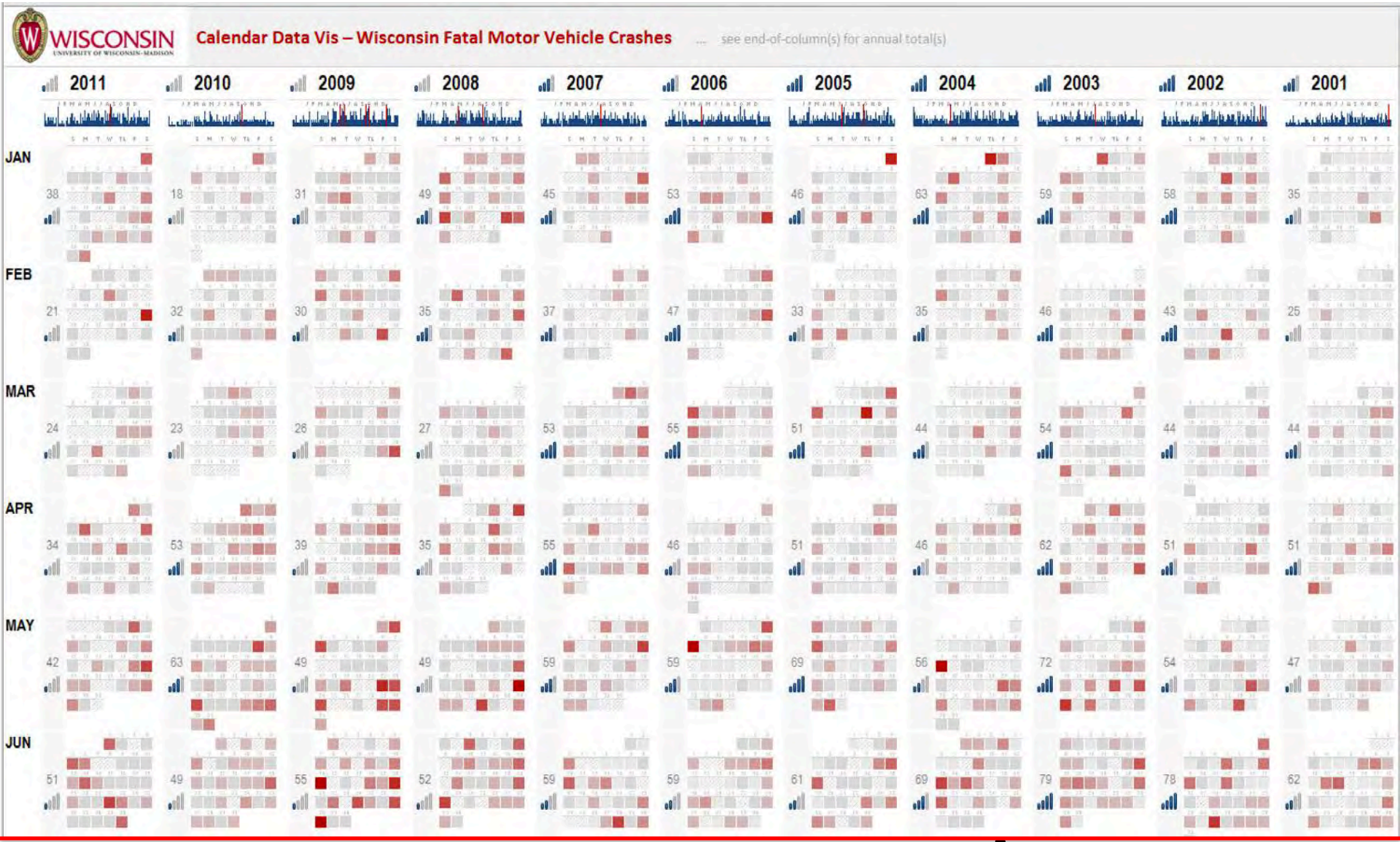
“Best use of Excel I’ve seen in a LONG time. I’m impressed that this was even possible using that tool.”

Robert A. Scopatz, DATA-NEXUS

VARIATIONS

interactive web-demo (summer 2012)



WI Fatals (2001–11)

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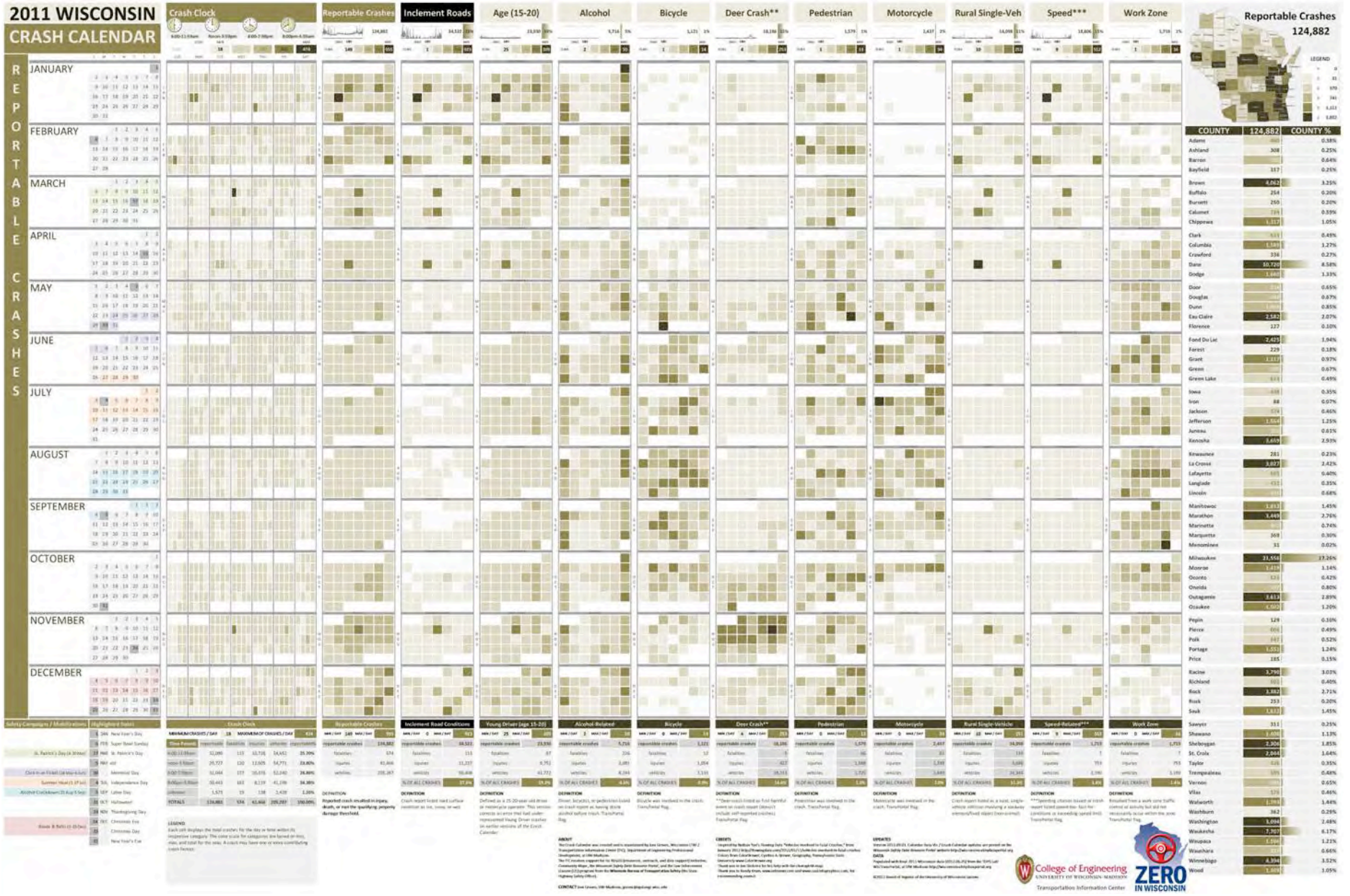

2011 WI reportable crashes

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2012 preliminary data (August 2012)

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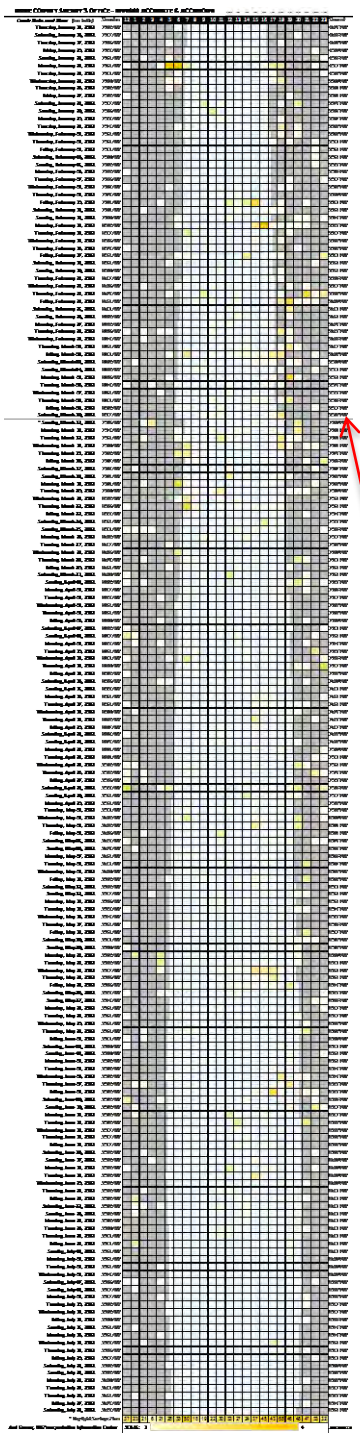
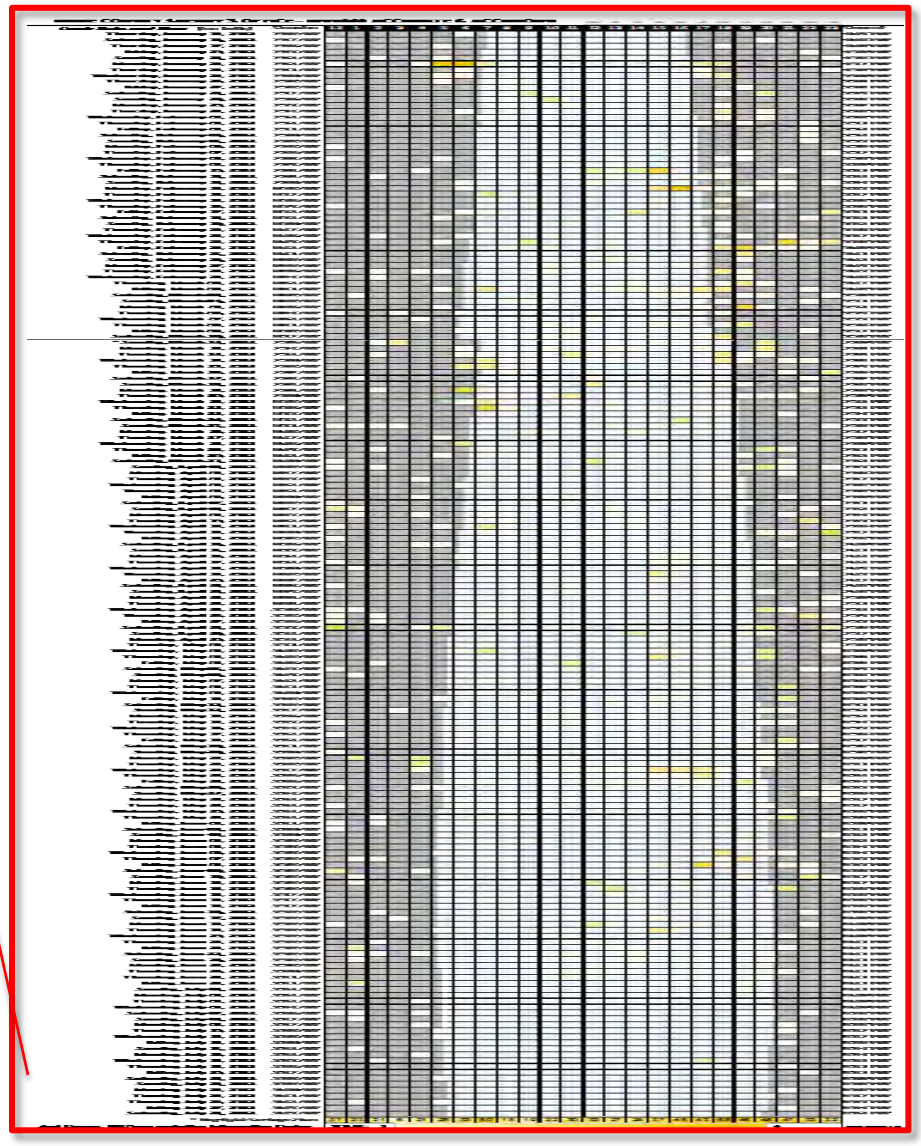
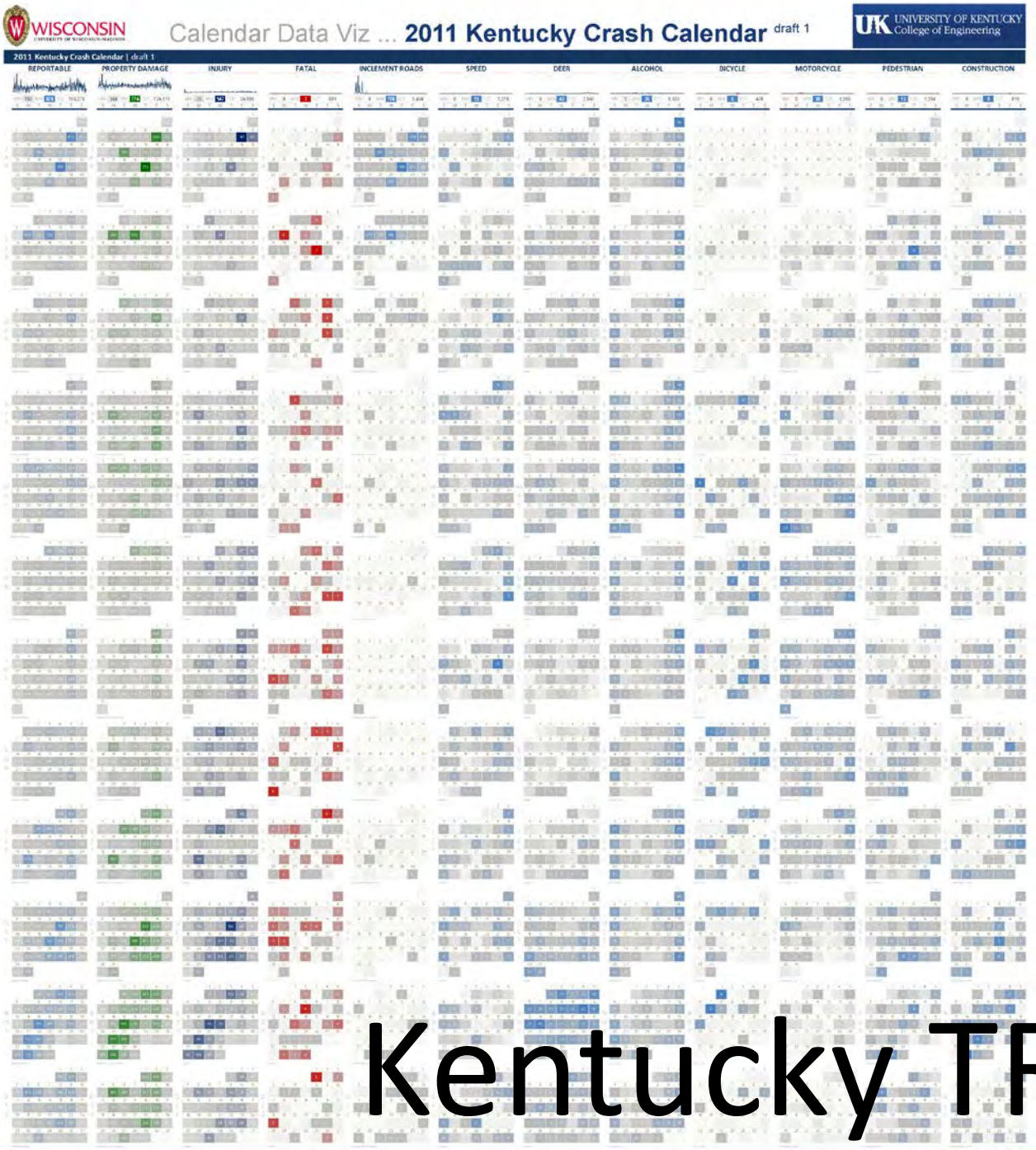
January 2012 >>>





“Crash Clock” prototype

July 2012 >>>



Kentucky TRCC

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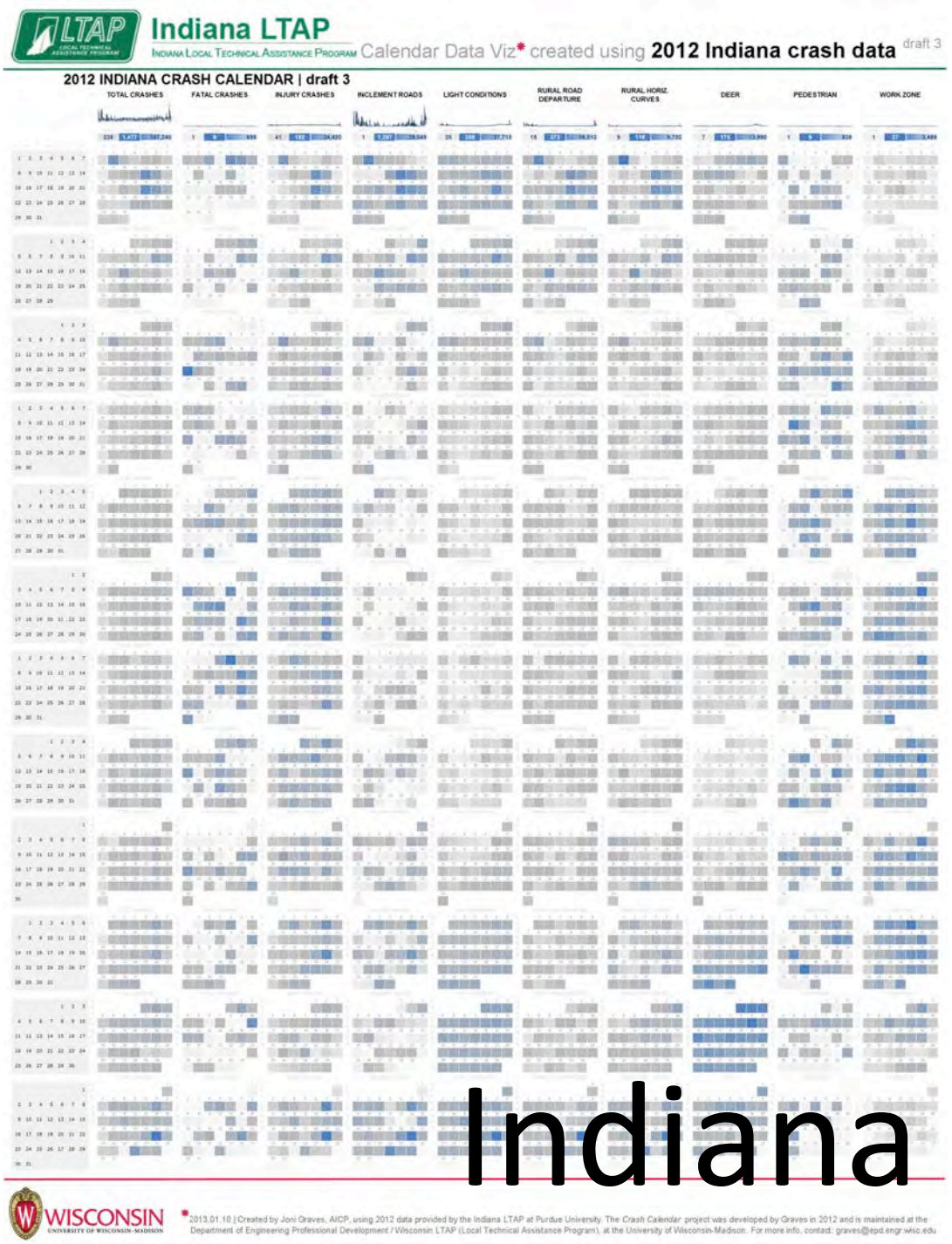
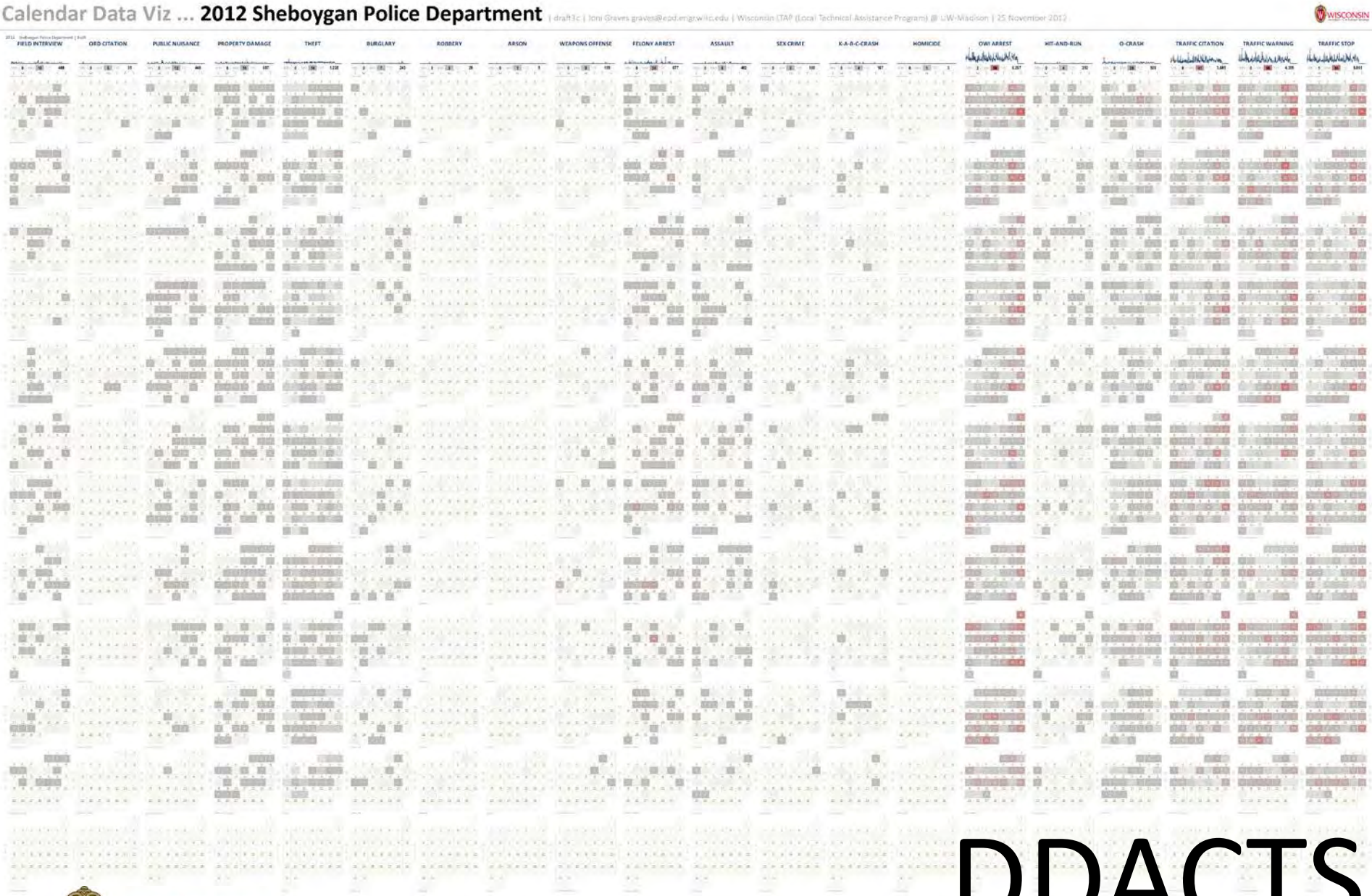


Indiana LTAP



DDACTS

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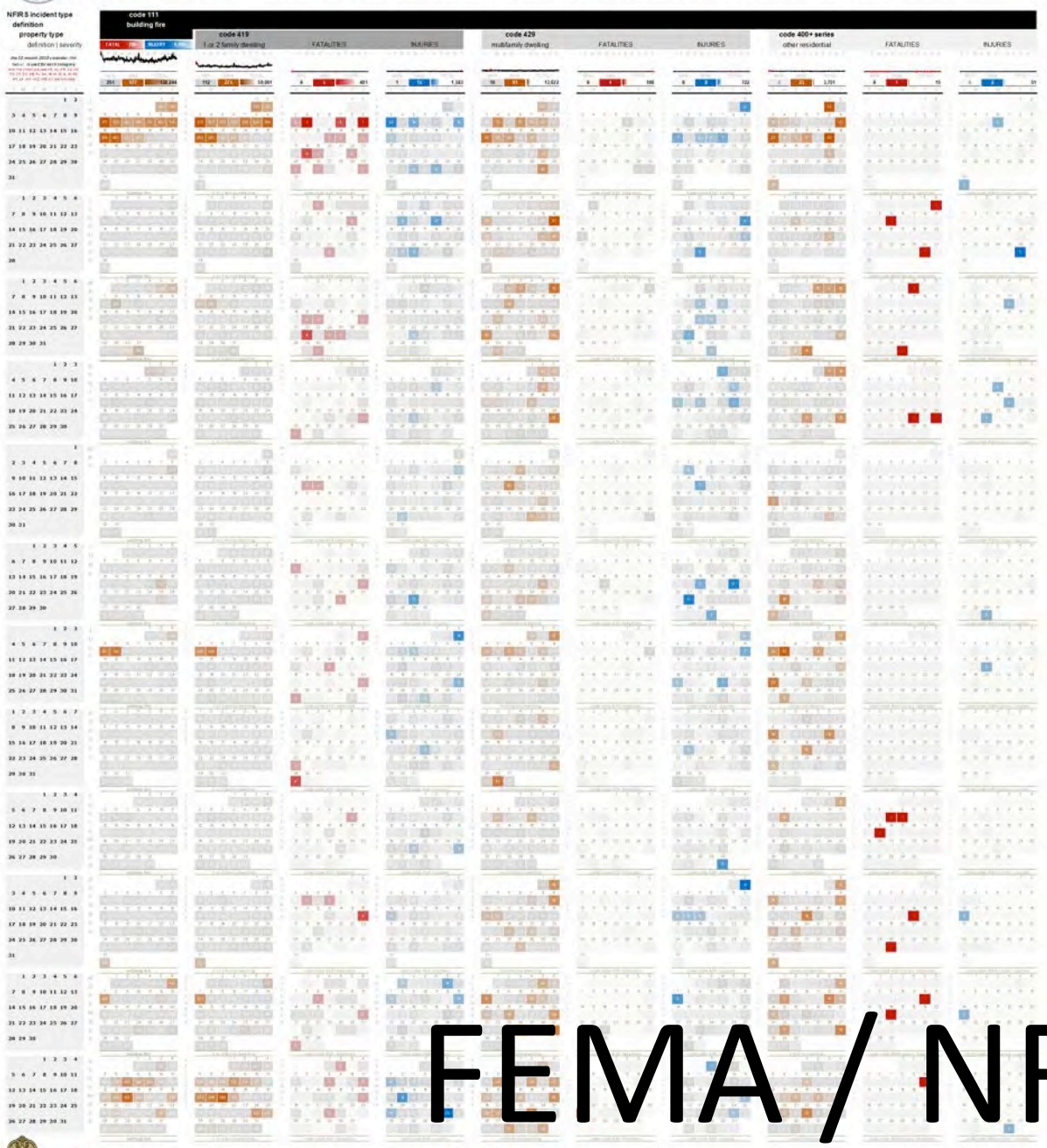
FEMA | Calendar Data Viz created using 2010 National Fire Incident Reporting System (NFIRS) data | AL-MN draft 3
NFIRS incident type
definition
property type
definition | severity
code 111
building fire
code 419
1 or 2 family dwelling
code 429
multifamily dwelling
code 400+ series
other residential
FATALITIES
INJURIES
WISCONSIN
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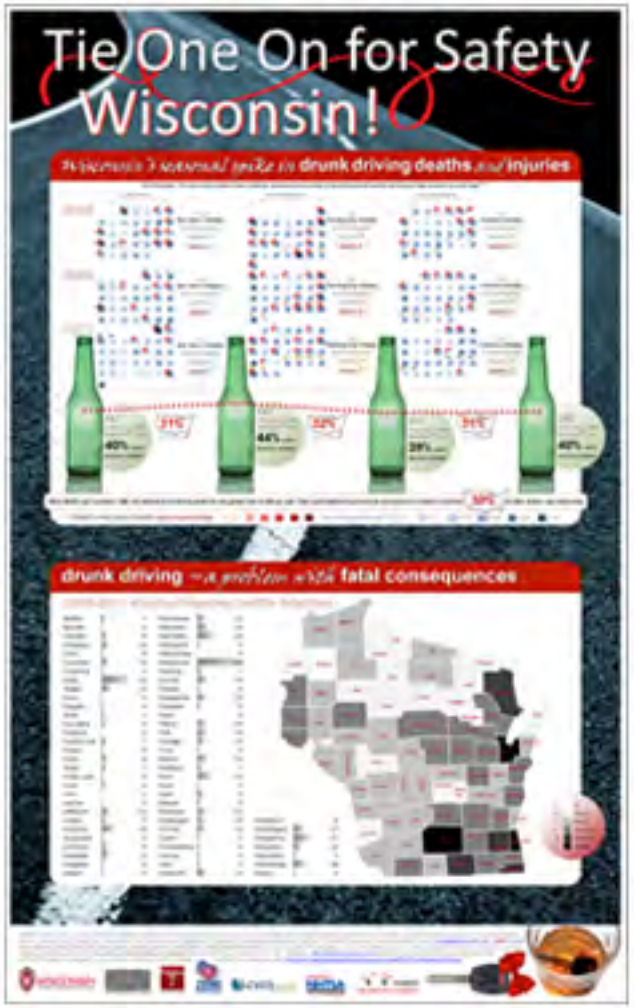
2012.12.05 | Created by Joni Graves, AICP, using 2010 data provided by FEMA. The Crash Calendar and Calendar Data Viz project were developed by Graves in 2012 and are maintained at the Department of Engineering Professional Development / Wisconsin LTAP (Local Technical Assistance Program), University of Wisconsin-Madison. For more information, contact: graves@epd.engr.wisc.edu

FEMA / NFIRS

Dying for a Drink?
2008
2009
2010
32,900 people did…2008-2010
72,950
people did
2008-2010

Tie One On for Safety
A Seasonal Spike in Drunk Driving Deaths
32,900
people died
A National Problem with Tragic Consequences
2008-2010 Alcohol-Impaired Fatalities by State


Tie One On for Safety
Wisconsin!
drunk driving deaths and injuries
drunk driving a problem with fatal consequences

MADD

WI LARGE TRUCK DATA

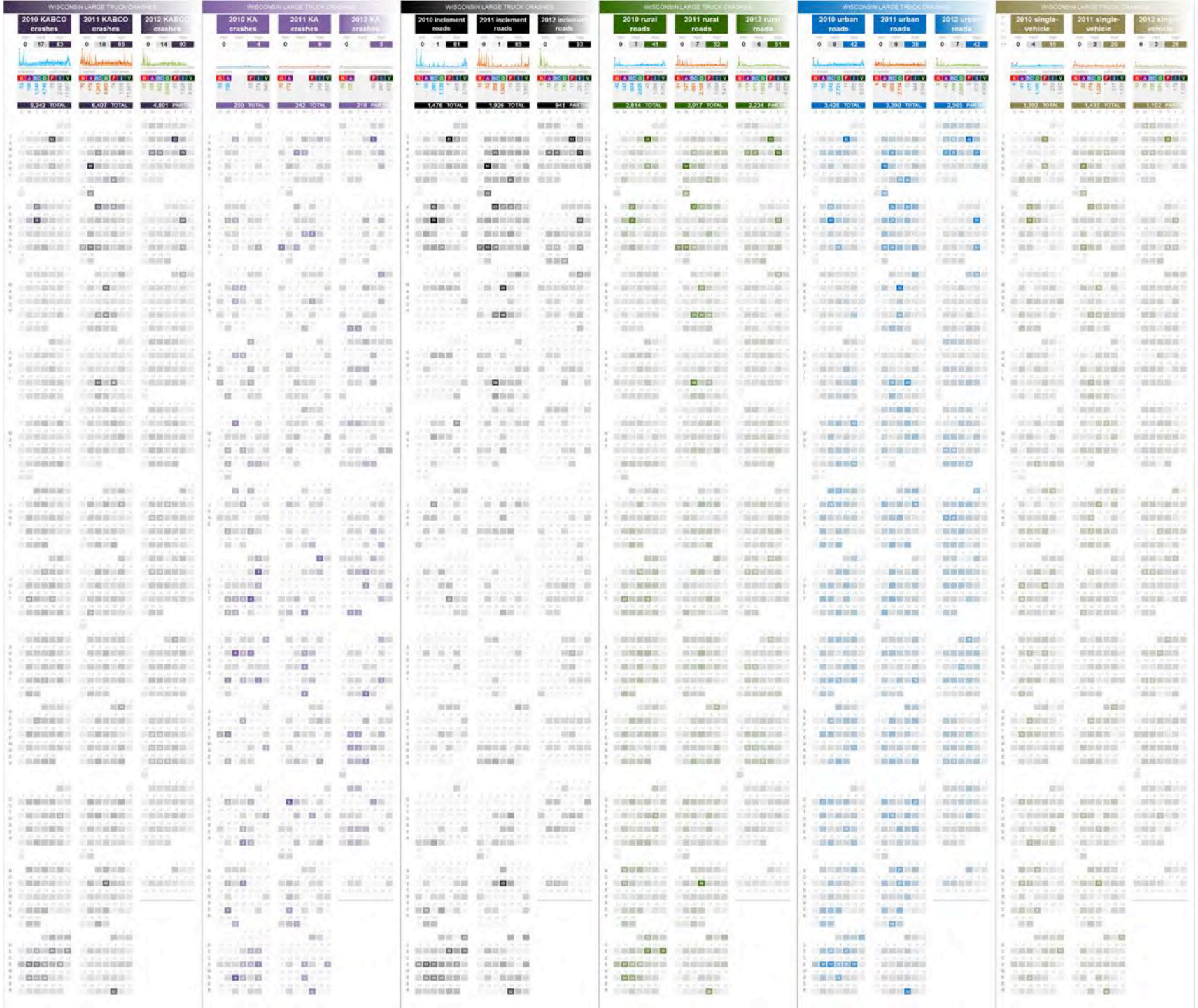
WISCONSIN LARGE TRUCK SAFETY AND ENFORCEMENT STUDY

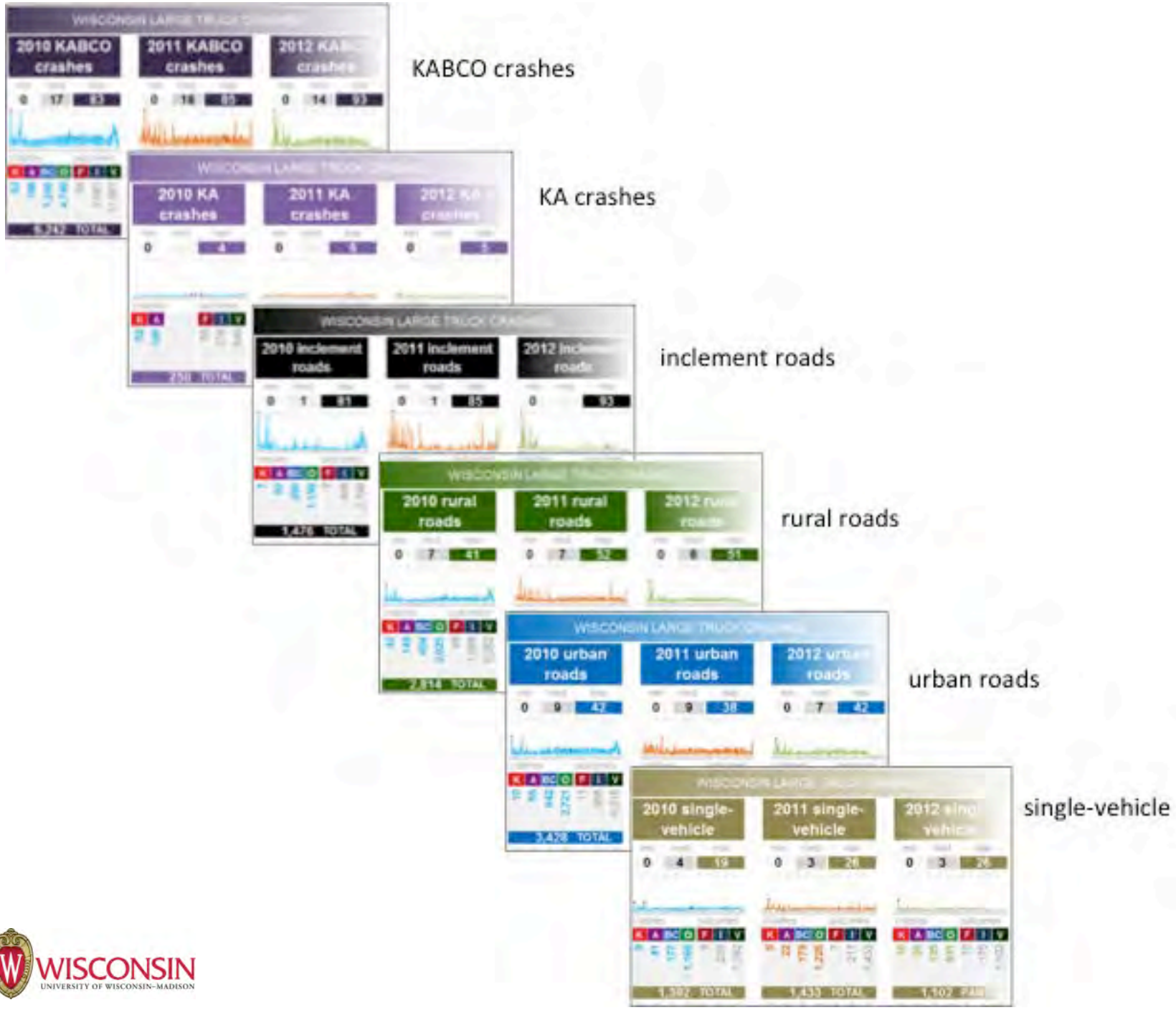
Project 04-24
July 2011

National Center for Freight & Infrastructure Research & Education
College of Engineering
Department of Civil and Environmental Engineering
University of Wisconsin, Madison

Authors: Andrea Bill, Francisco Serrano, and David Noyce
University of Wisconsin, Madison

Principal Investigator: David Noyce
Associate Professor, Department of Civil and Environmental Engineering, UW-Madison


WISCONSIN LARGE TRUCK CRASHES
2010 KABCO crashes
2011 KABCO crashes
2012 KABCO crashes
2010 KA crashes
2011 KA crashes
2012 KA crashes
2010 inclement roads
2011 inclement roads
2012 inclement roads
2010 rural roads
2011 rural roads
2012 rural roads
2010 urban roads
2011 urban roads
2012 urban roads
2010 single-vehicle
2011 single-vehicle
2012 single-vehicle
6,242 TOTAL
8,407 TOTAL
4,801 PARTIAL
250 TOTAL
242 TOTAL
210 PARTIAL
1,476 TOTAL
1,926 TOTAL
941 PARTIAL
2,814 TOTAL
3,917 TOTAL
2,234 PARTIAL
5,428 TOTAL
5,390 TOTAL
2,565 PARTIAL
1,992 TOTAL
2,433 TOTAL
1,102 PARTIAL



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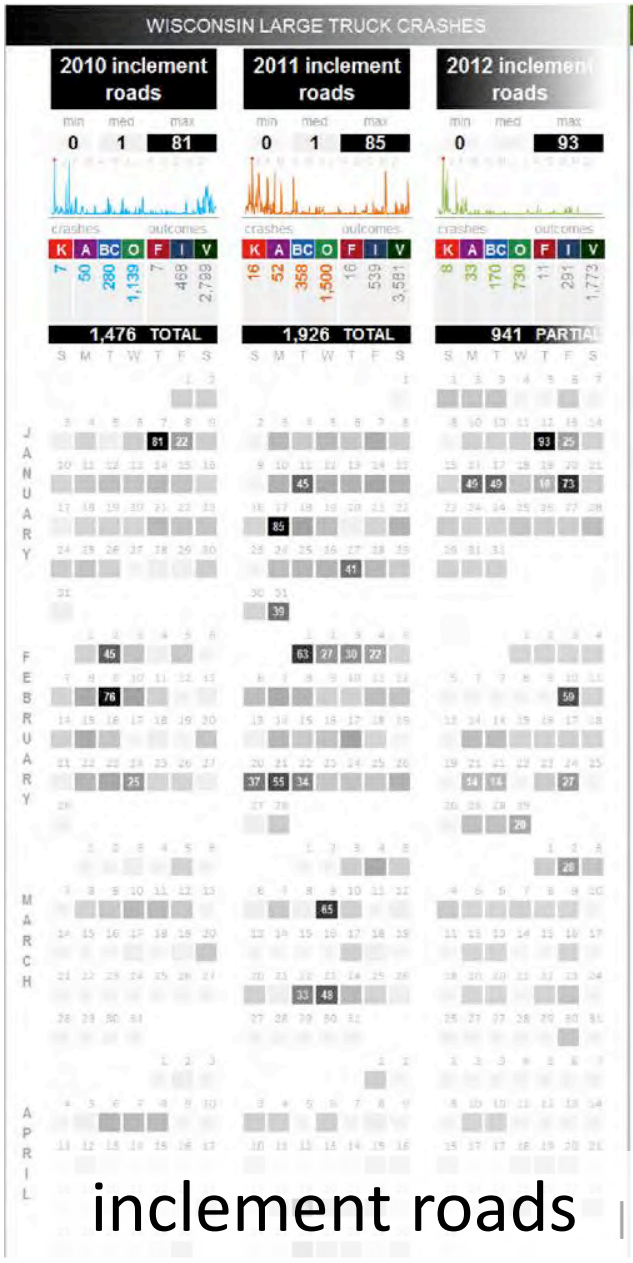
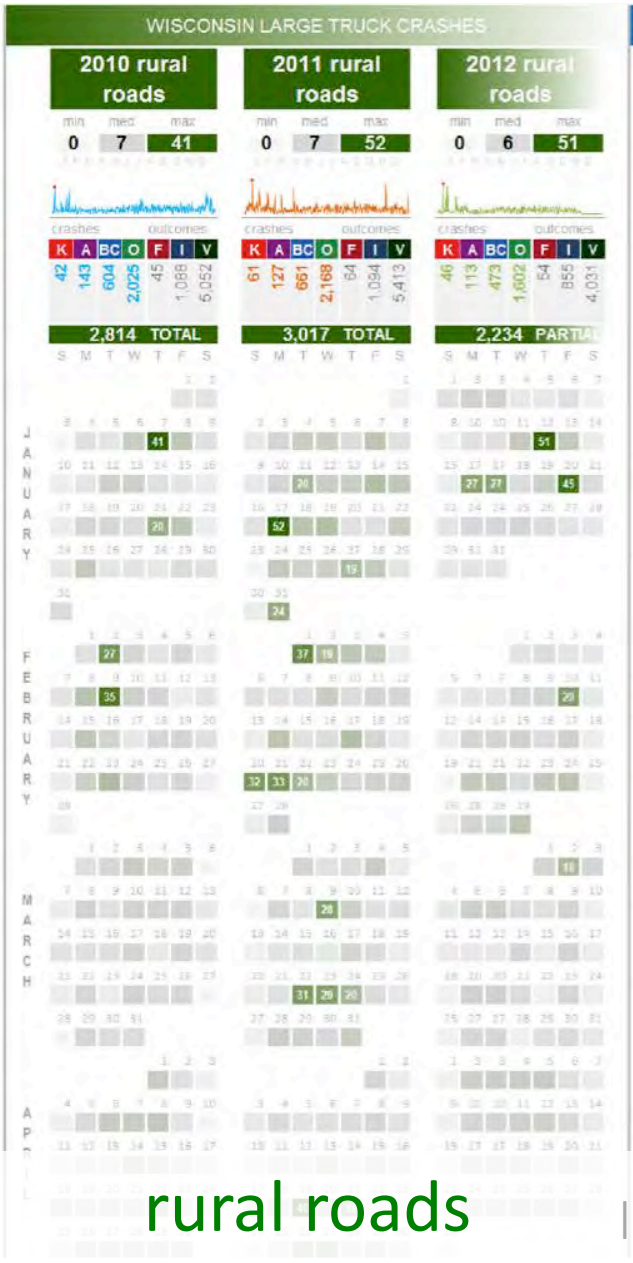
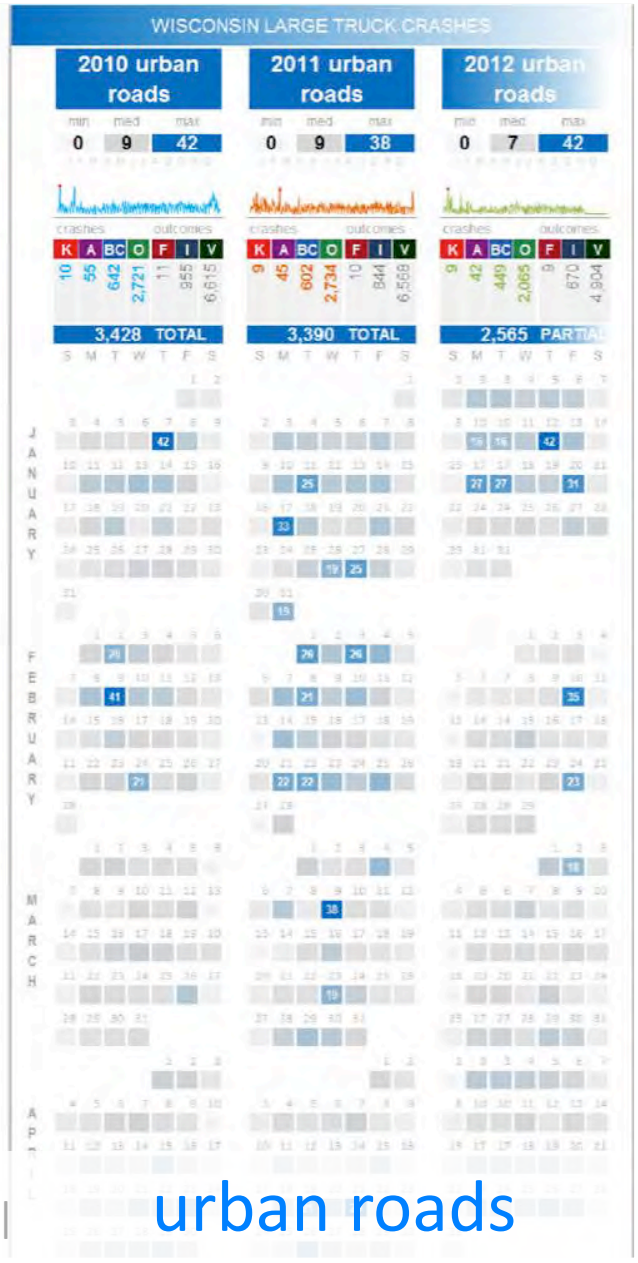
Wisconsin large truck crashes (2010–12 DMV data)



inclement roads



rural roads



urban roads

Joni Graves, AICP

Wisconsin LTAP Transportation Information Center
Dept. of Engineering Professional Development UW-Madison

graves@epd.engr.wisc.edu http://**wisconsinsafetydataportal**.org

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Transportation Information Center
WISCONSIN'S LTAP at the UNIVERSITY OF WISCONSIN-MADISON