

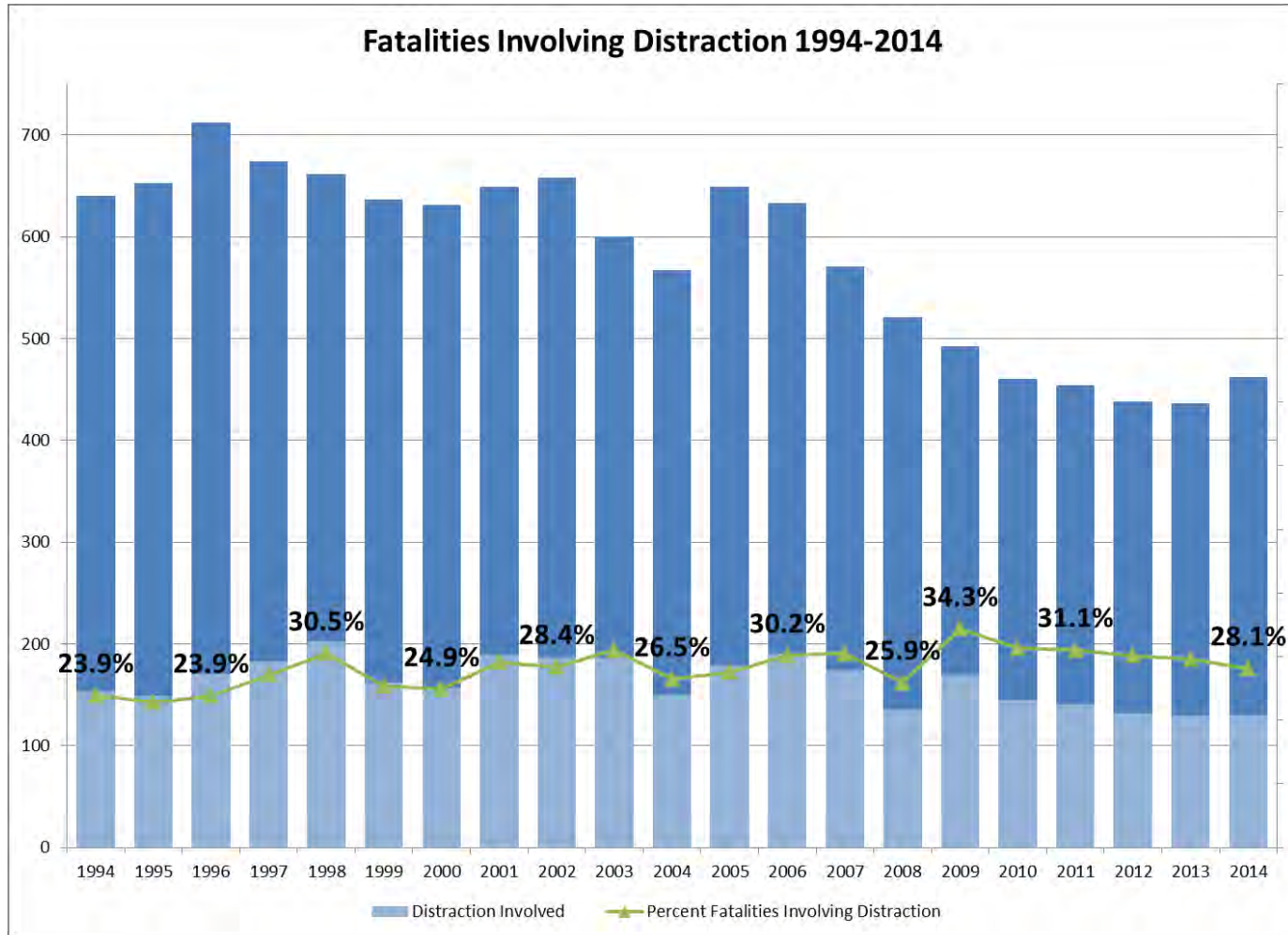


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Traffic Safety
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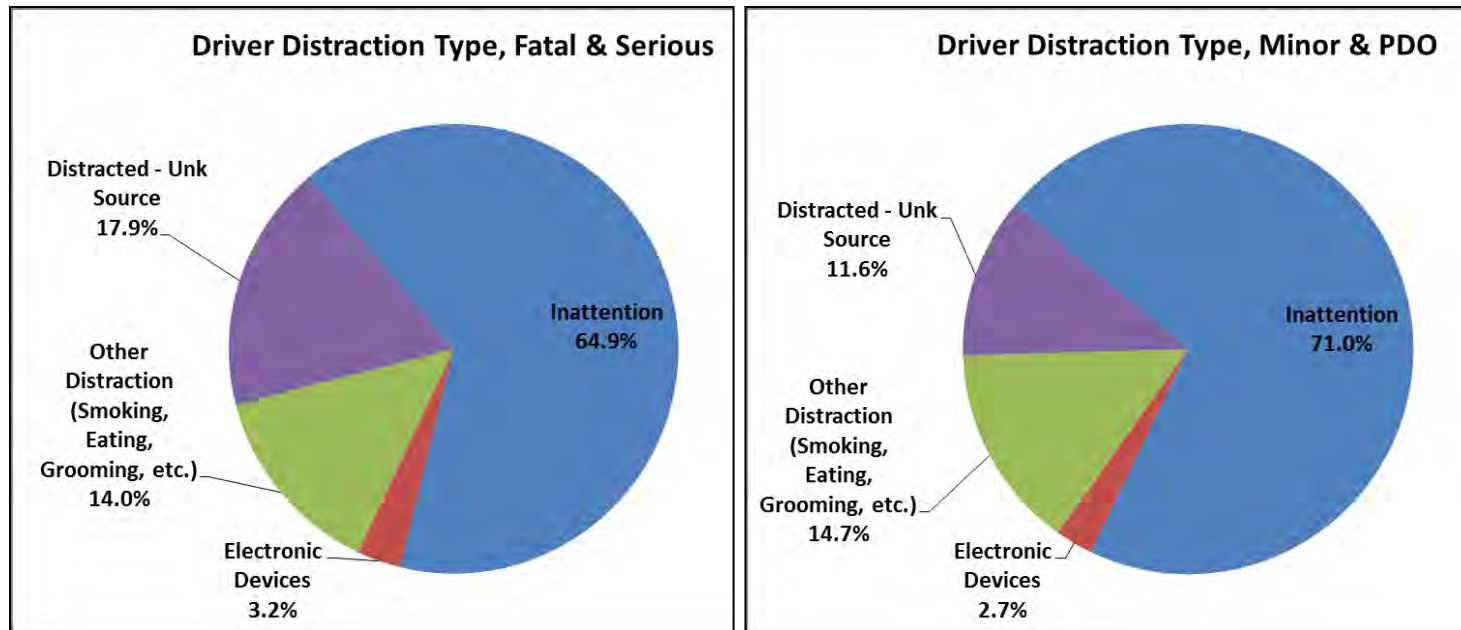
Distraction Involvement in Fatal Crashes

Staci Hoff, PhD
Research Director

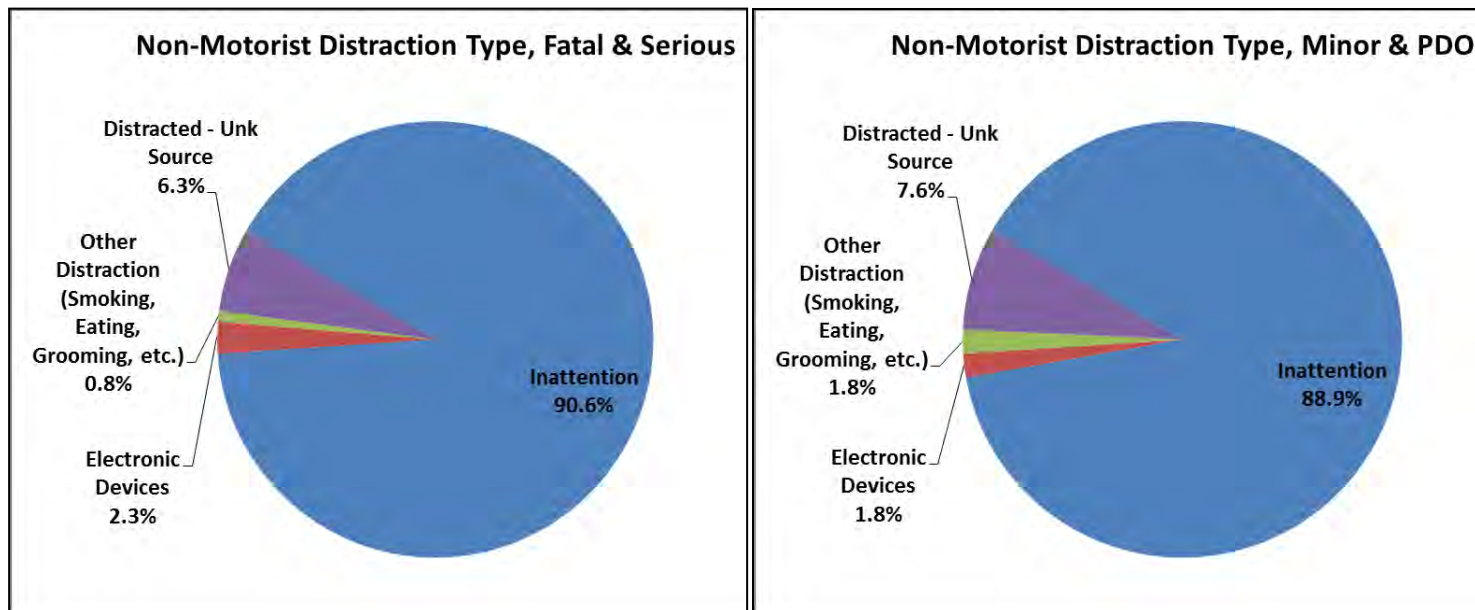
History of Distraction



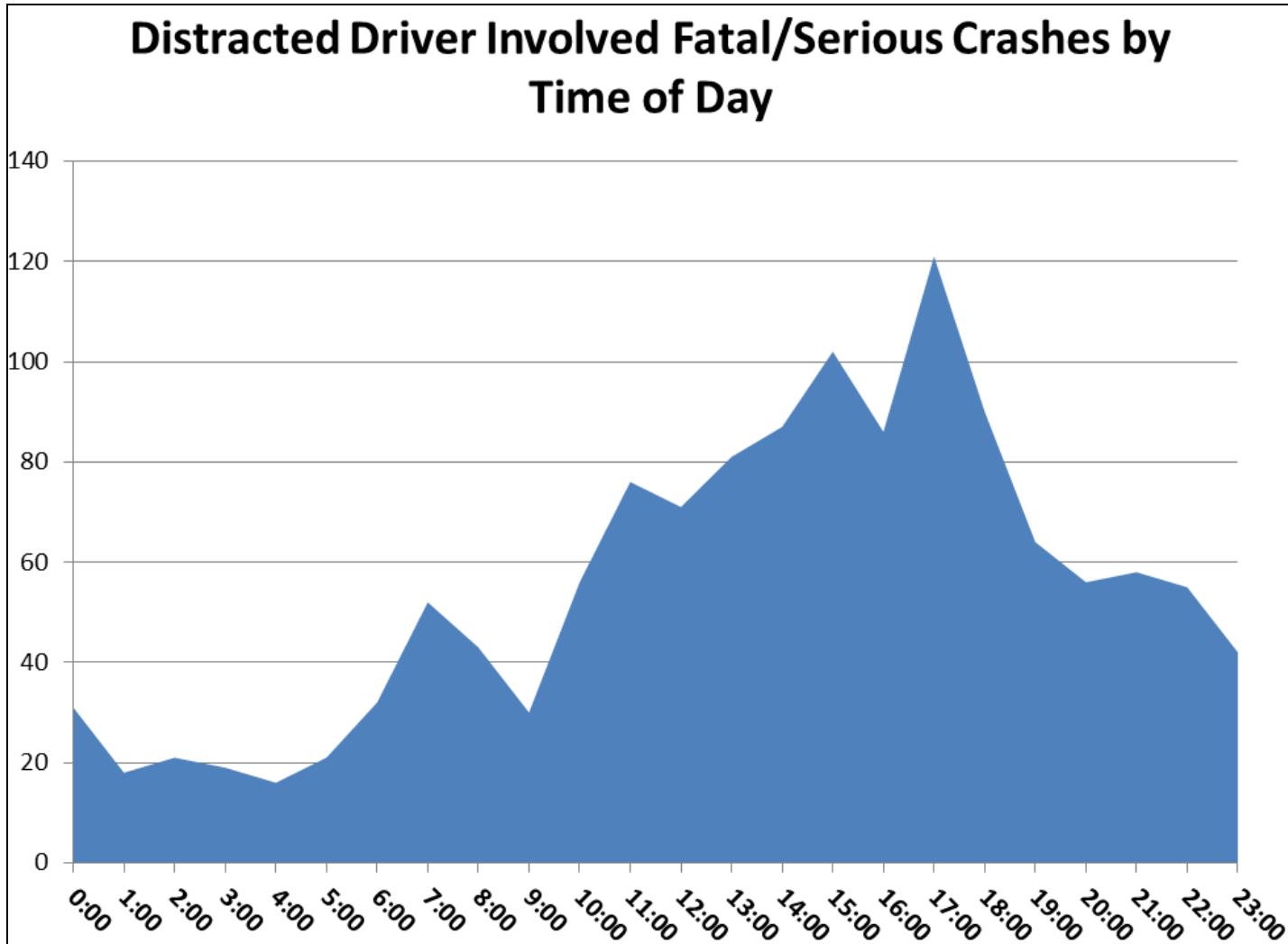
Type of Driver Distraction



Type of Non-Motorist Distraction



Distracted Driver Crashes



Distracted Driving Study - HIPRC

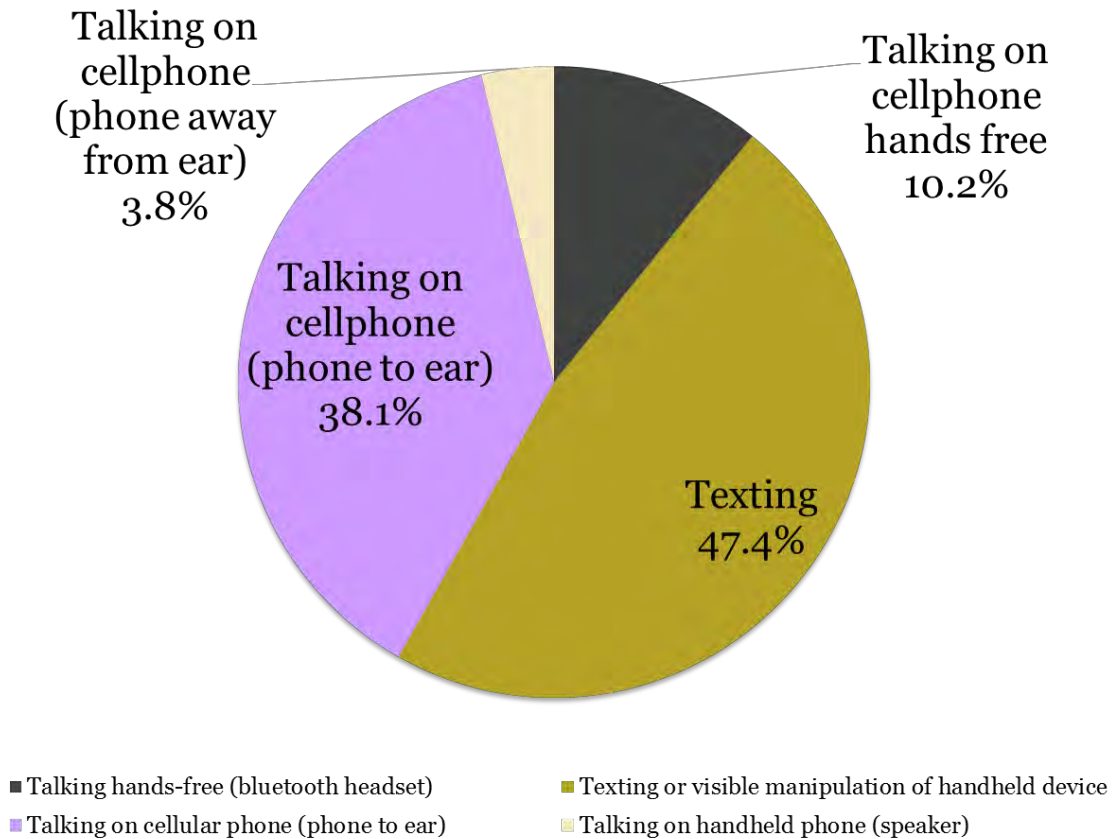
○ Design:

- 7900 drivers observed at controlled intersections in 6 large counties

○ Results:

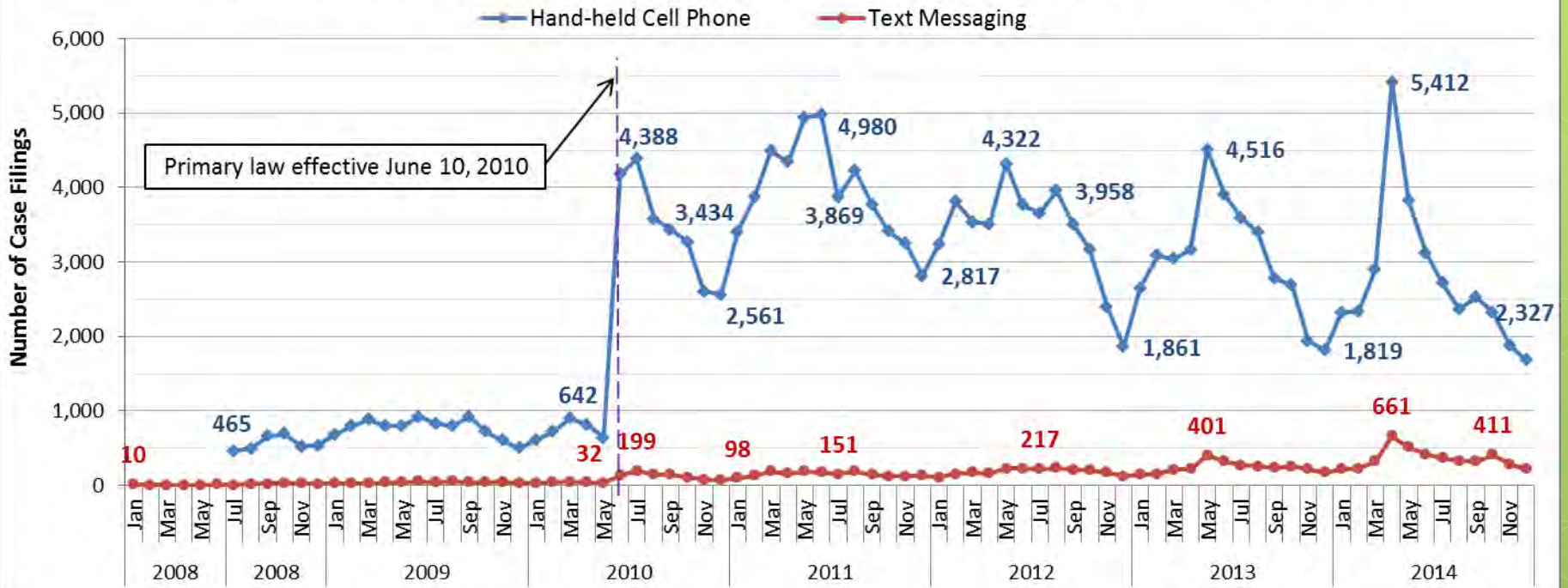
- Nearly 1 in 10 drivers (9.2%) were using cell phones or texting behind the wheel
- Nearly half of distracted drivers were texting or manipulating a wireless communication device

Type of Distraction Observed



Cell Phone Case Filings

WA Case Filings for Hand Held Cell Phone Use and Text Messaging While Driving Violations



Data source: Administrative Offices of the Courts (AOC). Number of cases filed under RCW 46.61.667 (using wireless telecommunications device while driving) and RCW 46.61.668 (sending, reading, or writing a text message while driving) by WSP and local law enforcement. Does not include cases filed in Seattle Municipal Court (SMC).

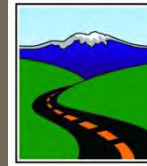
Distracted Driving Law

Current

- Prohibits holding cell phone to ear
- Allows use while stopped
- Prohibits texting, allows for surfing, emailing, etc.

HB 3033

- Requires any use is hands-free
- Applies while driving
- Prohibits manually entering data



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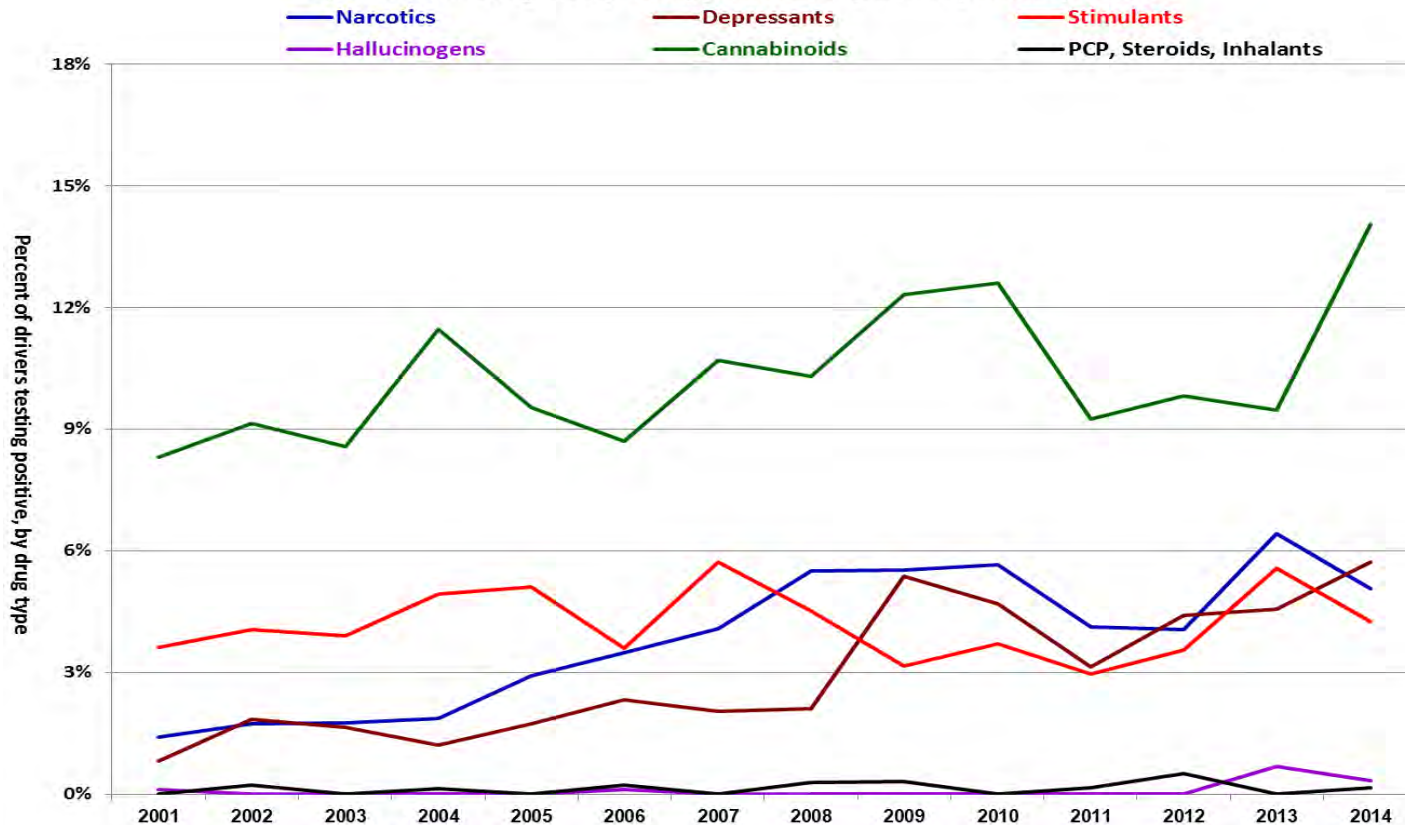
Marijuana Involvement in Fatal Crashes

Staci Hoff, PhD
Research Director

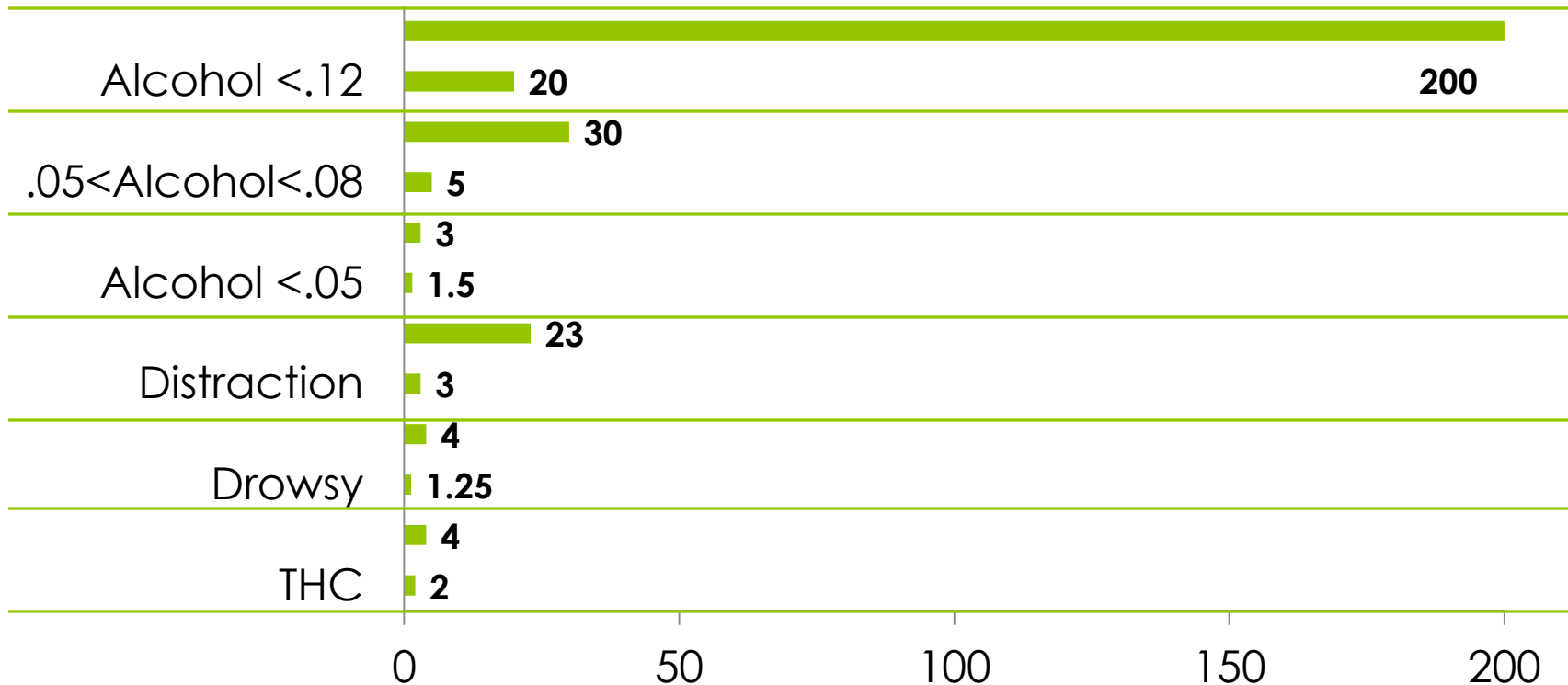
Marijuana Has Always Been the Dominate Drug in Fatal Crashes

Drug-Test Results of Drivers in Fatal Crashes, 2001-2014*

By Year and Drug Class, *2014 figures based on preliminary data as of 4/9/2015



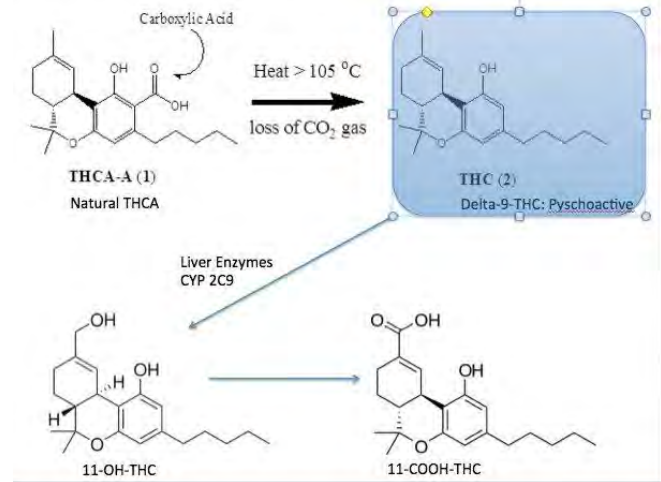
Does Marijuana Use Increase Crash Risk??



The Problem with Data



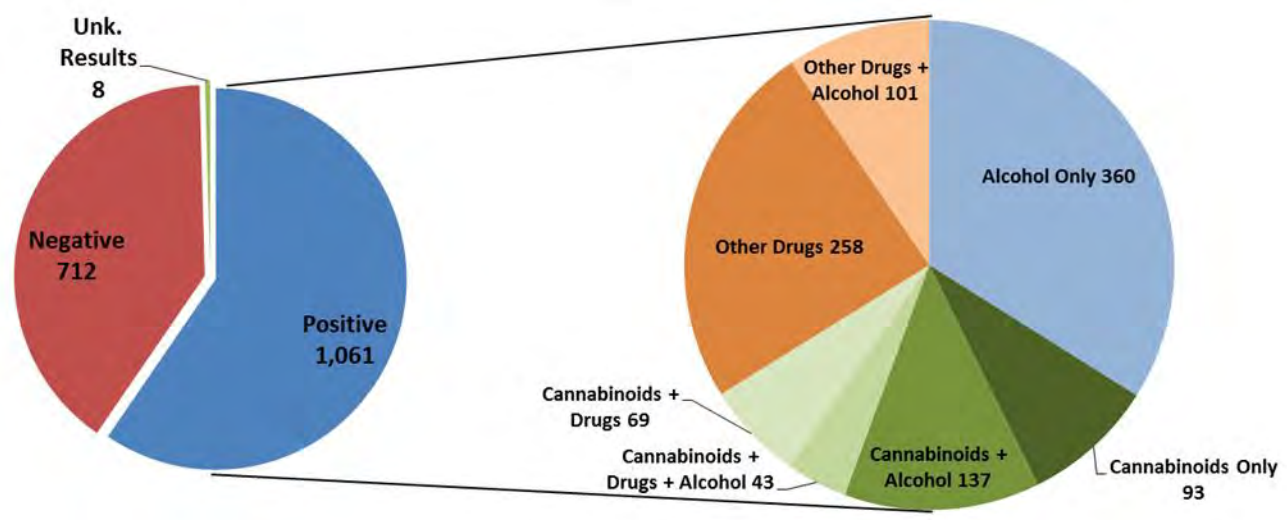
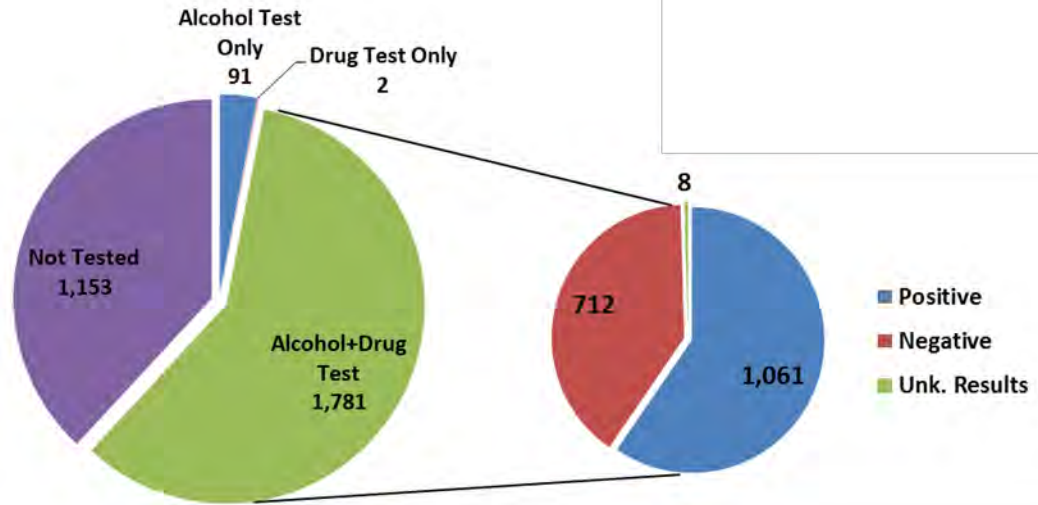
Delta 9
Hashish Oil
Hashish
Marijuana/Marihuana
Marinol
Tetrahydrocannabinols (THC)
Cannabinoid (Type Unk)



WTSC-RADD

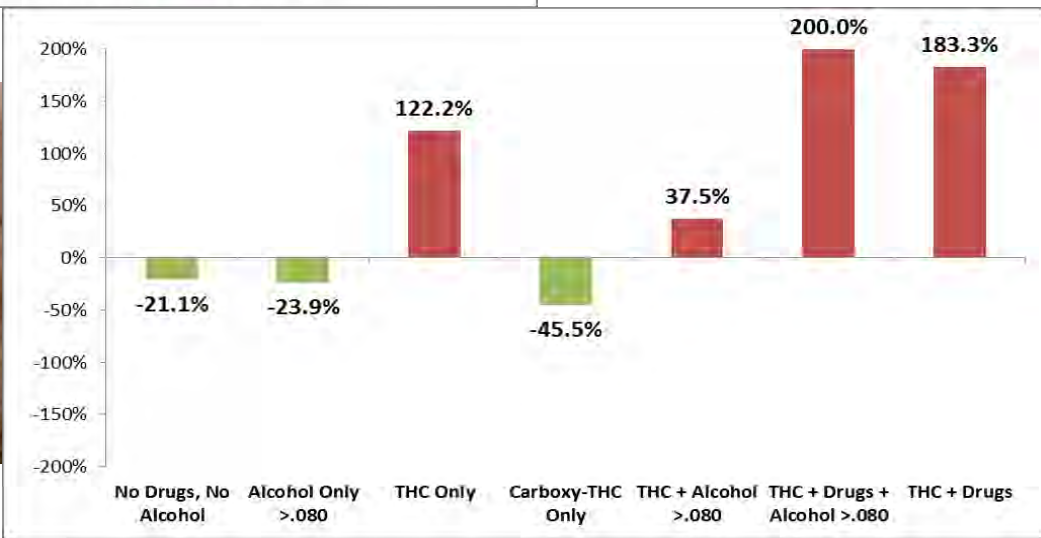
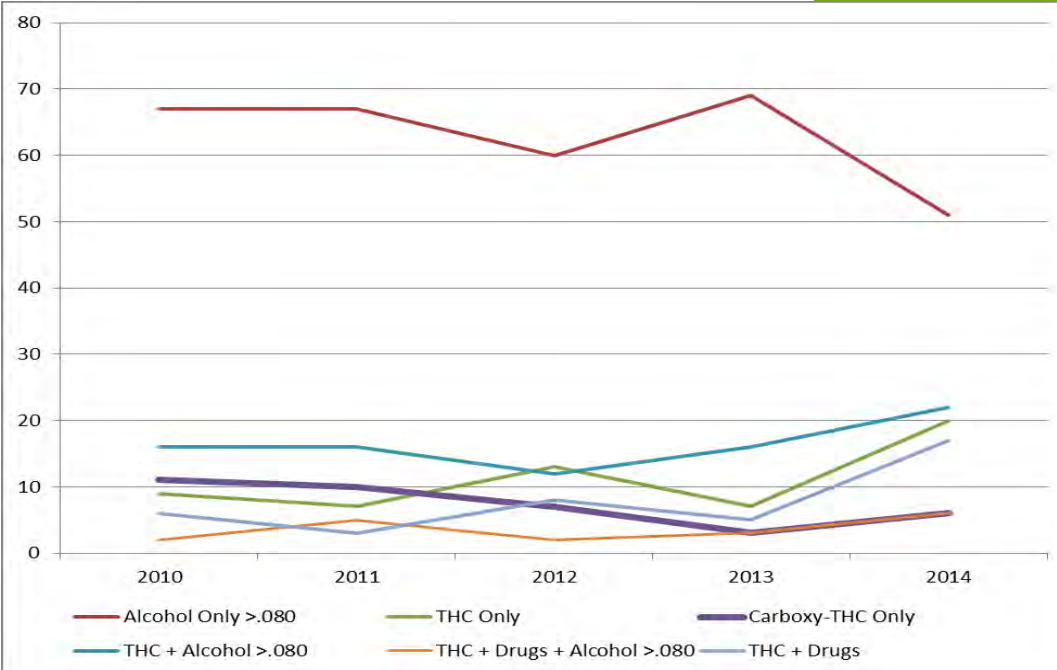


- Reviewed all toxicology paper reports and manually entered full toxicology outcomes into spreadsheet
- Worked with Dr. Couper to abstract the information for surviving drivers
- Abstracted full toxicology for everyone in fatal crashes who had toxicology testing (drivers, occupants, non-motorists)
- Married to the original FARS record for in-depth fatal crash analysis
- Initial report focused on data years 2010-2014, DRIVERS

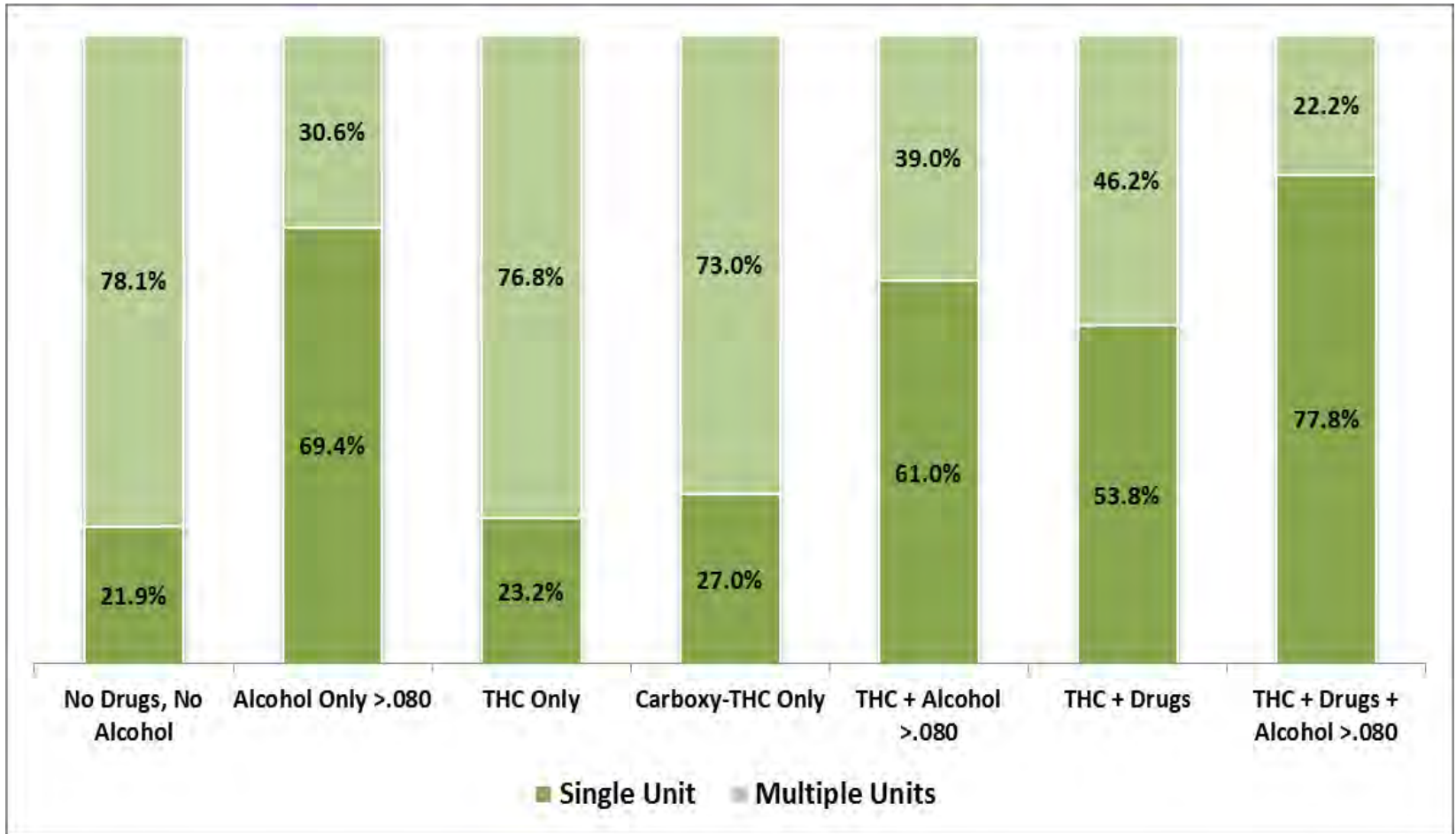




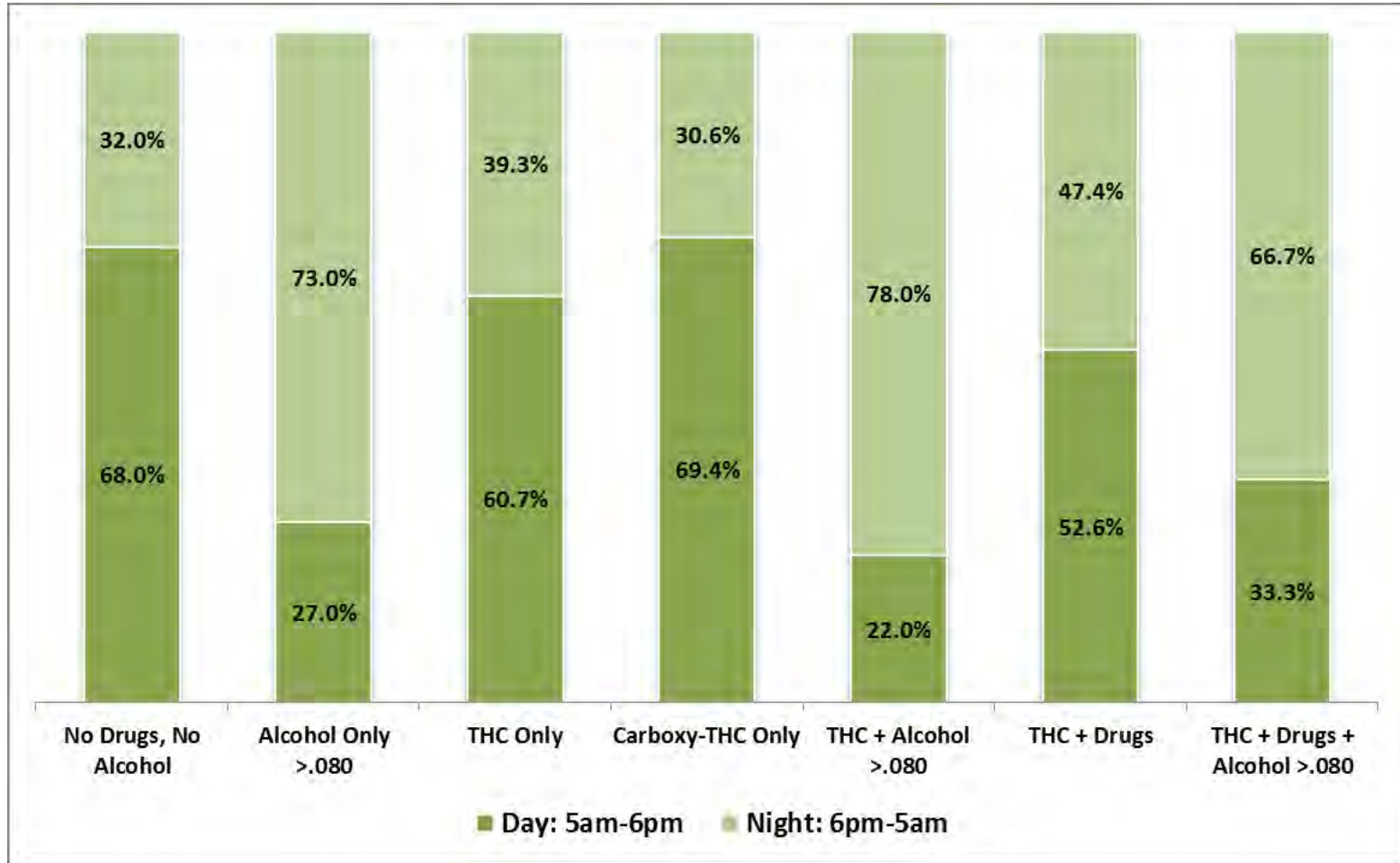
Toxicology Outcomes	2010	2011	2012	2013	2014	TOTAL 2010-2014
Not Tested	219	226	224	212	272	1,153
No Drugs, No Alcohol	147	151	151	147	116	712
Alcohol Only <.079	15	8	6	7	10	46
Alcohol Only >.080	67	67	60	69	51	314
THC Only	9	7	13	7	20	56
Carboxy-THC Only	11	10	7	3	6	37
THC + Alcohol <.079	3	1	0	3	6	13
THC + Alcohol >.080	16	16	12	16	22	82
Carboxy-THC + Alcohol	12	6	11	9	3	41
THC + Drugs + Alcohol <.079	0	0	1	2	3	6
THC + Drugs + Alcohol >.080	2	5	2	3	6	18
Carboxy-THC + Drugs + Alcohol	10	2	5	2	0	19
THC + Drugs	6	3	8	5	17	39
Carboxy-THC + Drugs	10	5	3	7	5	30
Other Drugs Only	47	42	46	71	52	258
Other Drugs + Alcohol Only	20	18	19	20	24	101



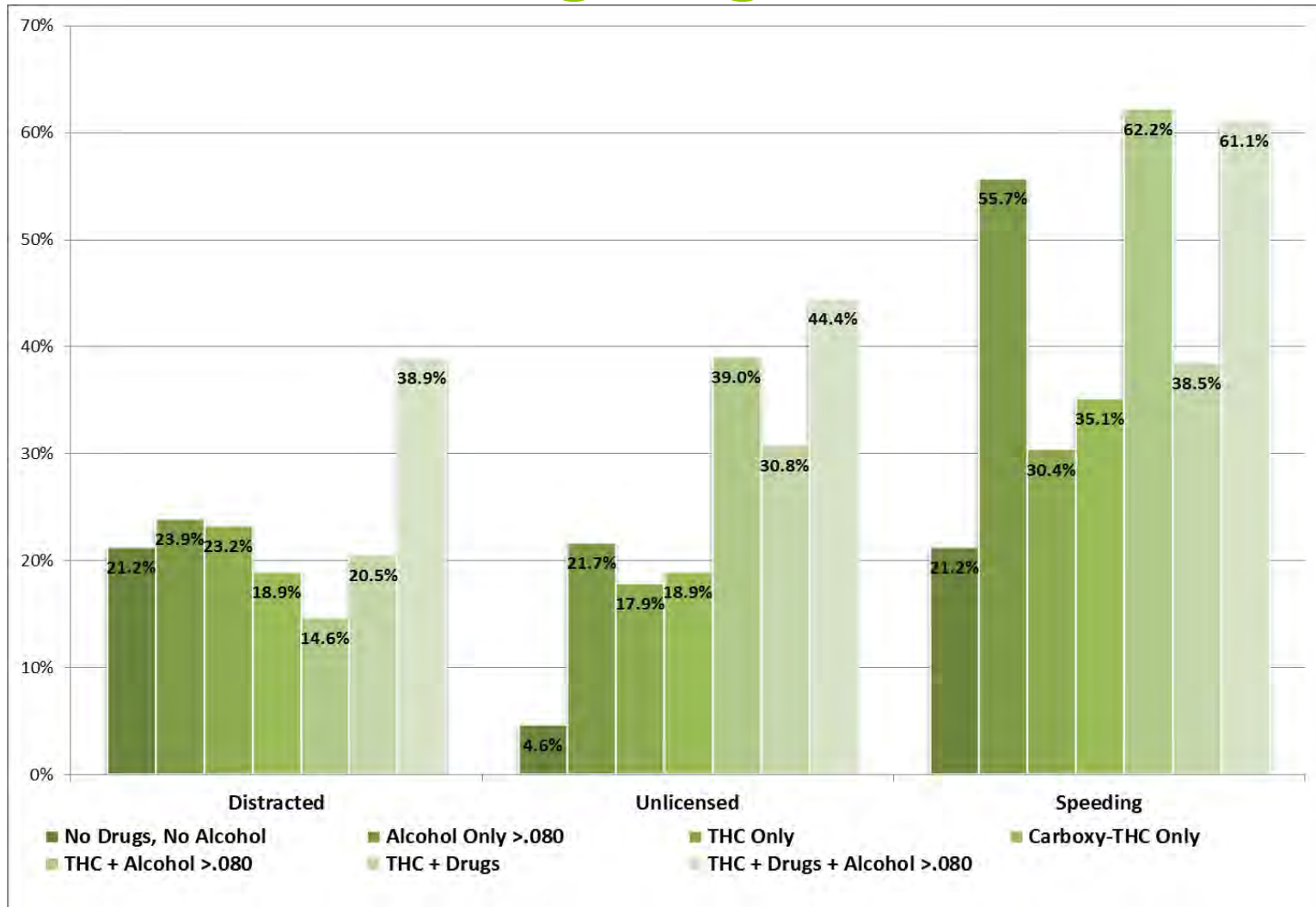
Number of Units Involved



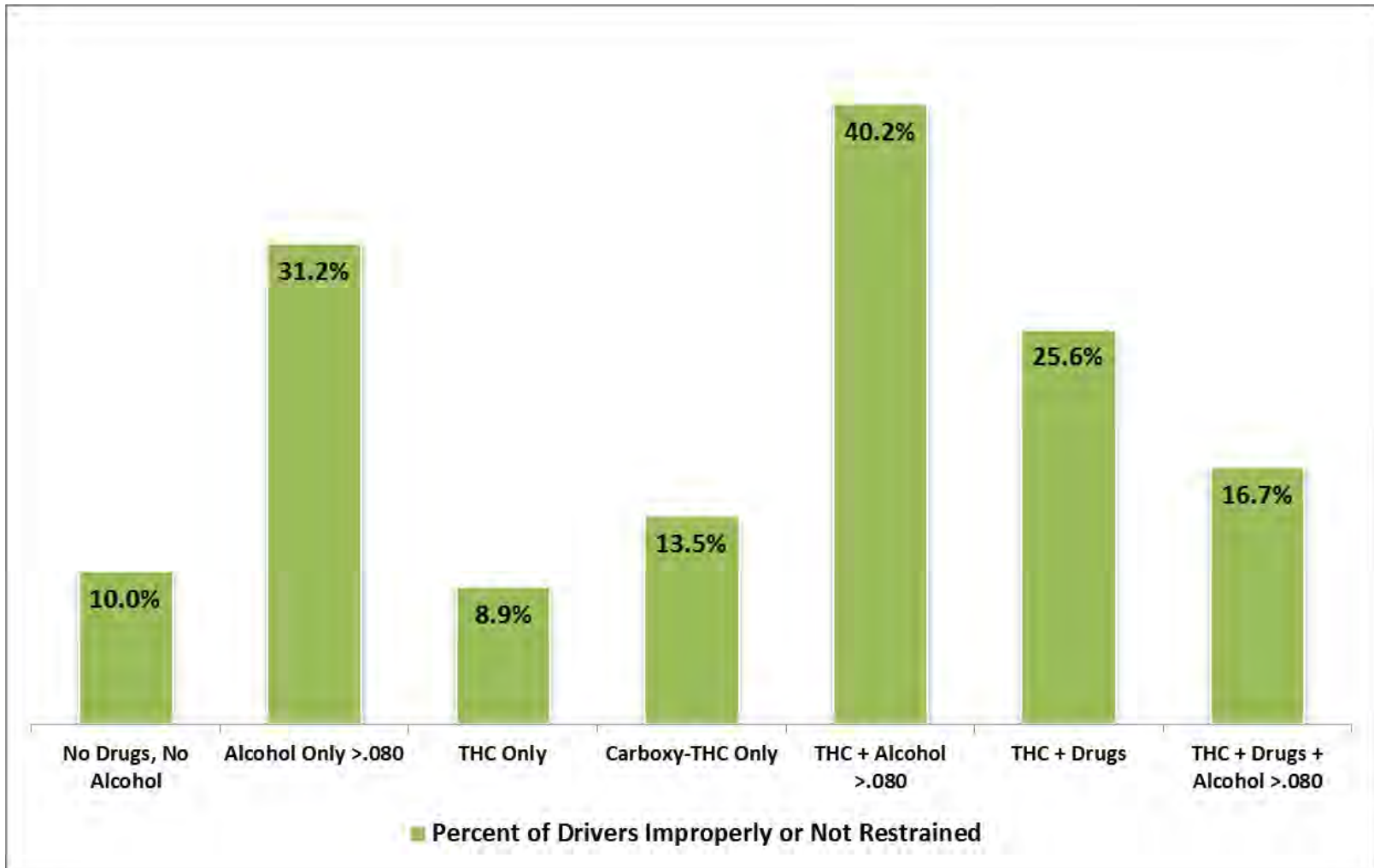
Day versus Night Crashes



Co-Occurring High Risk Factors



Unrestrained Drivers



THC versus Carboxy-THC

Marijuana Result	2010	2011	2012	2013	2014	Total
Any Marijuana	81	56	63	59	89	348
THC <5 ng/ml	24	19	23	19	38	123
	29.6%	33.9%	36.5%	32.2%	42.7%	35.3%
THC >5 ng/ml	12	13	12	18	37	92
	14.8%	23.2%	19.0%	30.5%	41.6%	26.4%
THC Result Unk	0	0	1	1	0	2
Any THC	36	32	36	38	75	217
	44.4%	57.1%	57.1%	64.4%	84.3%	62.4%
Carboxy-THC	45	24	27	21	14	131
	55.6%	42.9%	42.9%	35.6%	15.7%	37.6%

More Questions than Answers! But I will try...



- More analysis planned
- Continue to gather full toxicology data
- Toxicology linked to other crash severities