Sky Lakes Trauma Program

- Stacey Holmes, BSN, RN, CEN, TCRN
- Trauma Program Manager
- Sky Lakes Medical Center
- Klamath Falls, OR. 97603
 - Board Certified in Emergency Nursing & Trauma Care
 - 26+ years of Emergency / Trauma Nursing
 - 3+ years of helicopter scene and fixed wing interfacility transports
 - 19+ years of Critical Incident Stress Debriefing





Sky Lakes Medical Center – Trauma Program

- Level III Trauma Center
- Coverage Area 10,000 sq miles
- Annual ED Volume 35,000
- Annual Trauma Volume 650
 - 9% Transfer to higher level of care
 - 48% Admit
 - 14% to OR

Chiloquin Fire & Rescue

- Chief Mike Cook
- Chiloquin Fire & Rescue
- Chiloquin, OR
 - 10 Year Navy Veteran
 - Fire Chief Chiloquin since 2015
 - 26 years in Fire & EMS

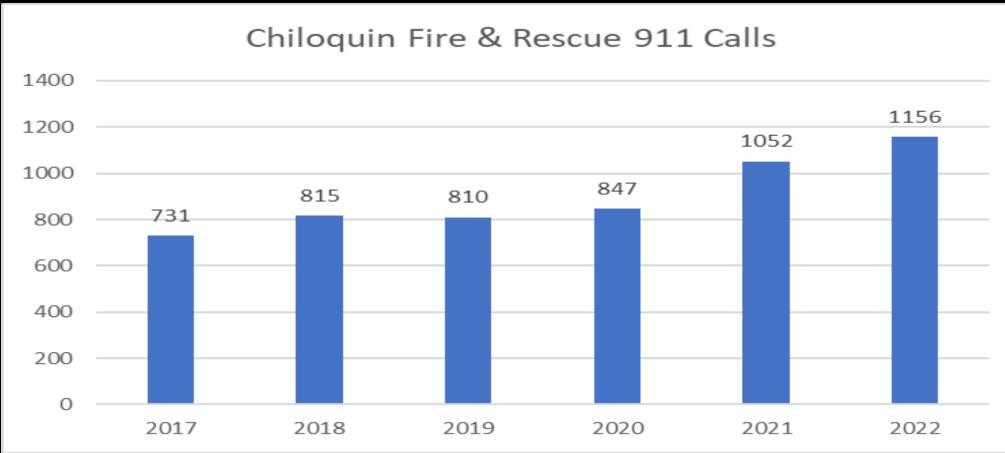






Chiloquin Fire & Rescue Annual Call Volume 2017-2022

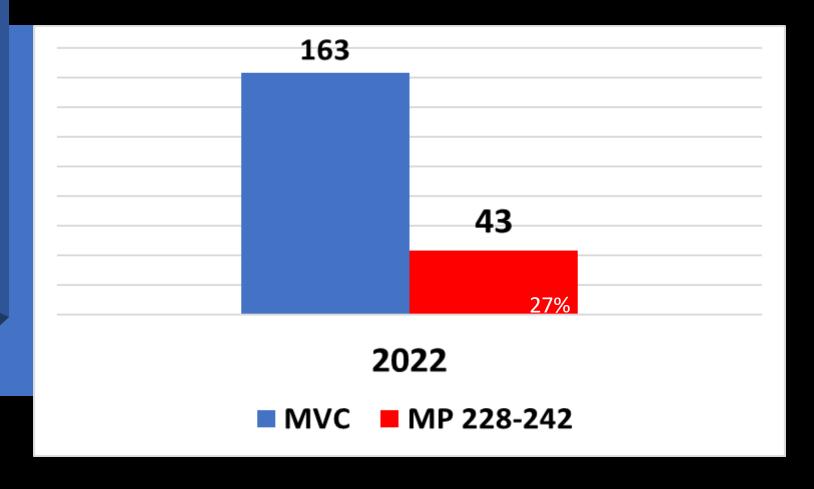


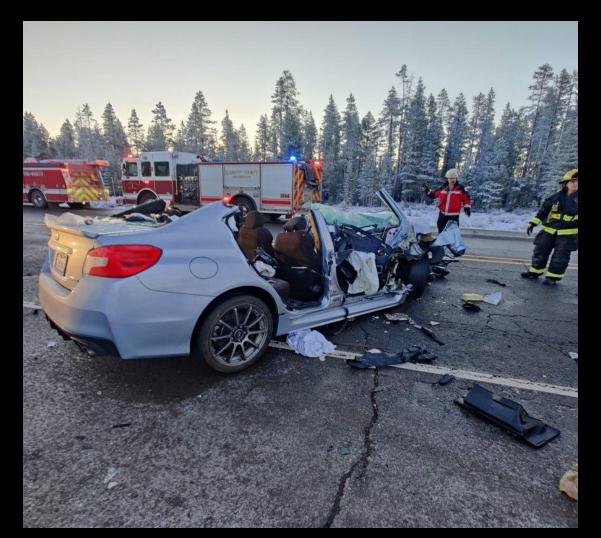




Chiloquin Fire & Rescue

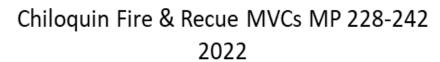
911 Total MVC Calls vs MP 228-242 MVC Calls 2022

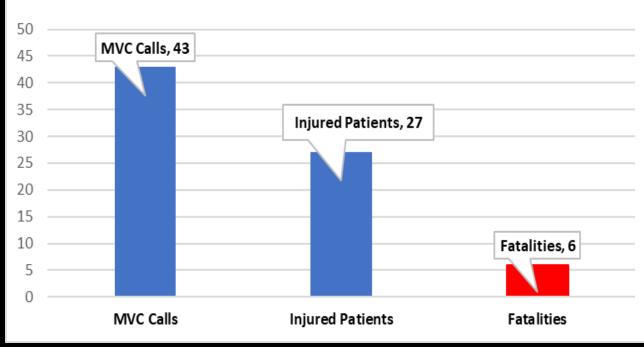




July 2022 – Jan 2023 = 8 Fatalities

2022 Fatalities MP 228 - 242





23% of Injured Patients Are Fatalities

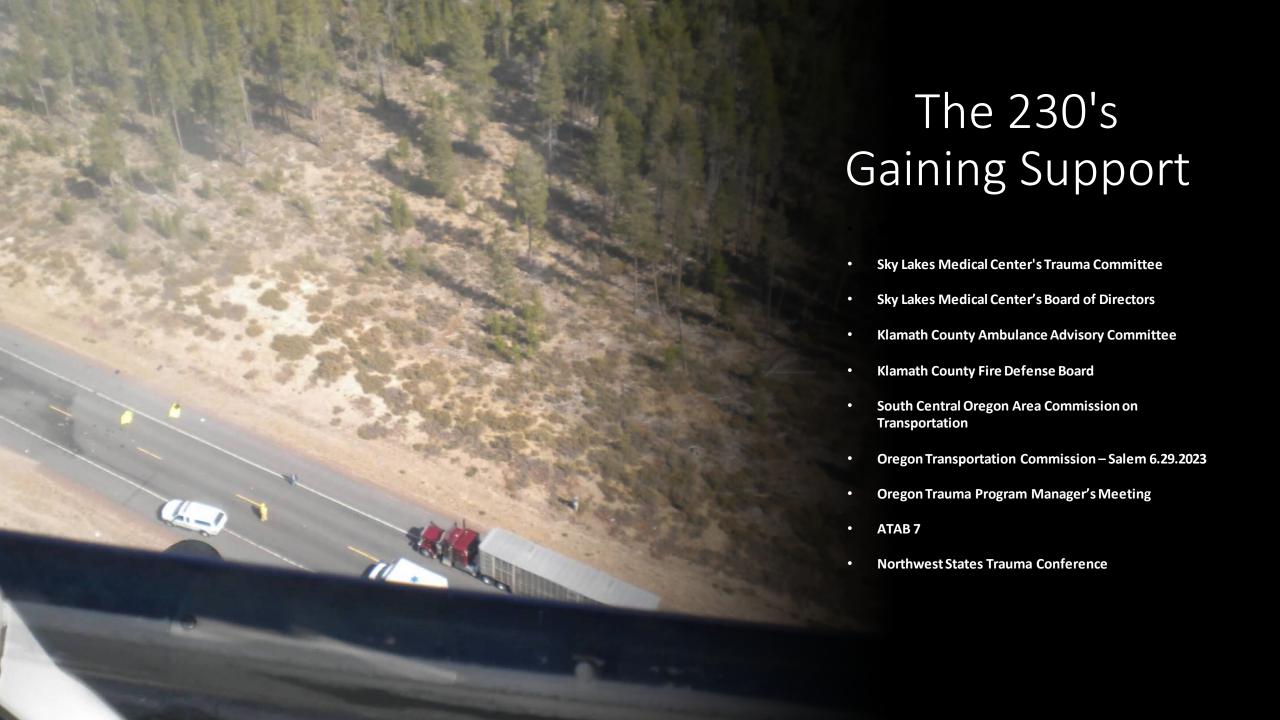
The 230's



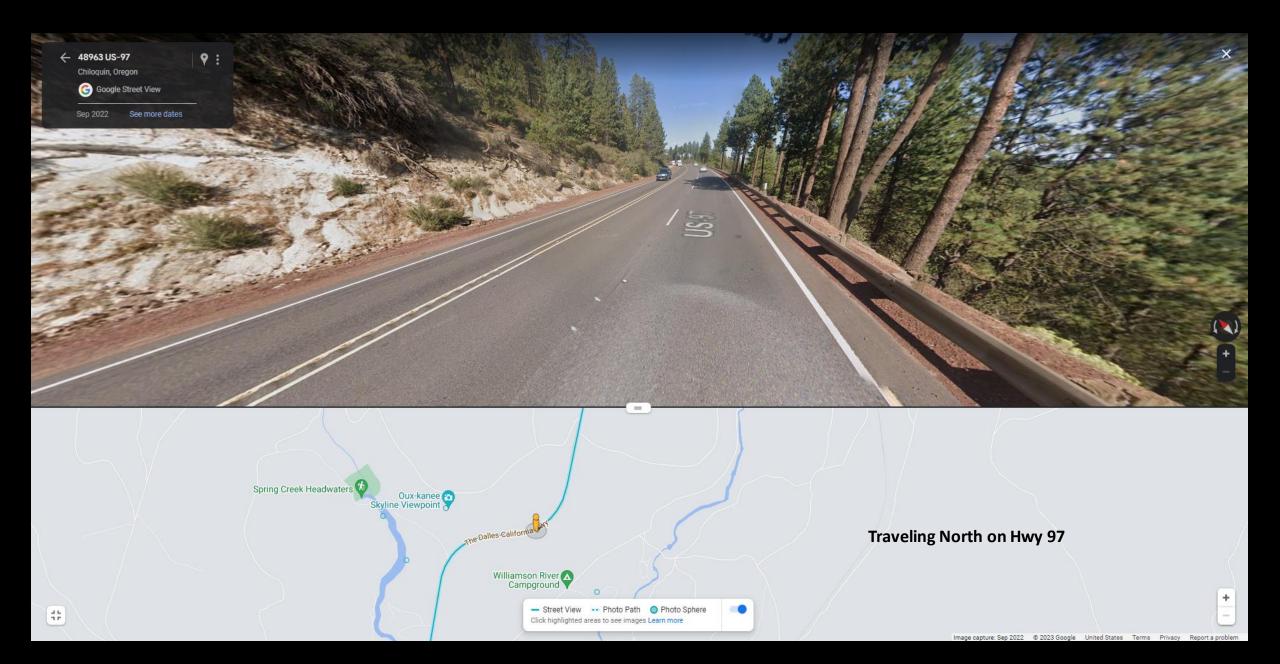
What we want you to know from the frontlines

- We CARE & are invested in our Community.
- We are here to serve our community, our patients & their family members.
- We will answer the call day or night, sunshine or snow and paid or not.
- We will leave our family dinner table to provide that care when needed.
- But it takes toll on us as well.
- WE ARE CONCERNED!
- We don't have all the answers, but the problem can't be fixed if we don't share the information.





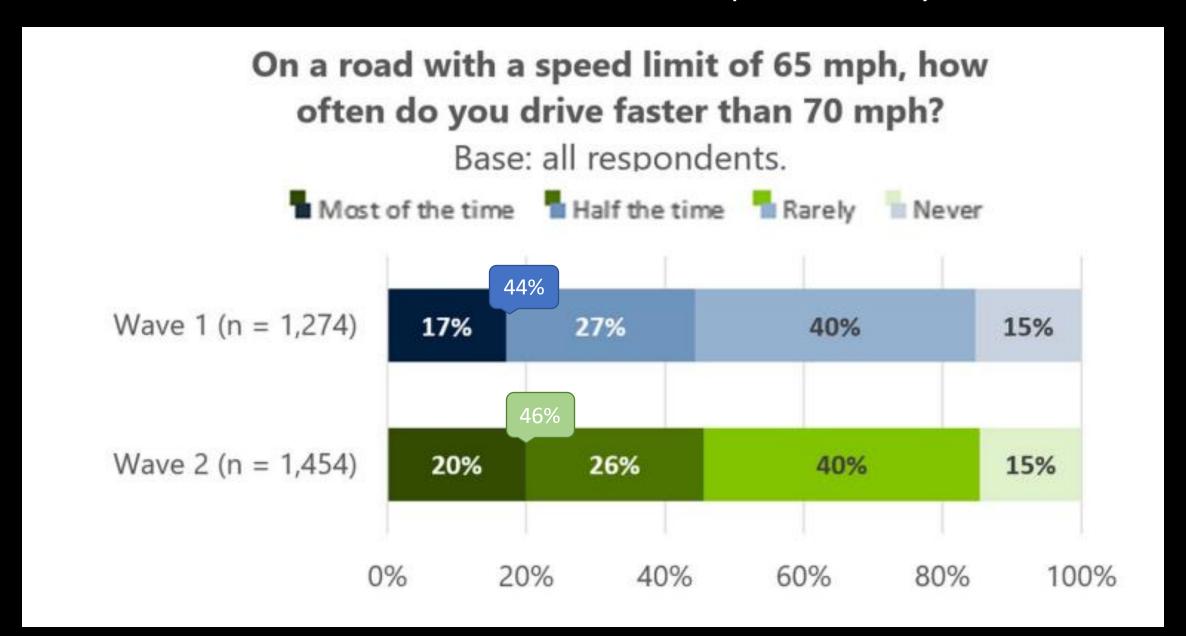
Mile Post 242 – Spring Creek Hill



Mile Post 228 – Silver Lake Junction



2021 ODOT Statewide Public Opinion Survey



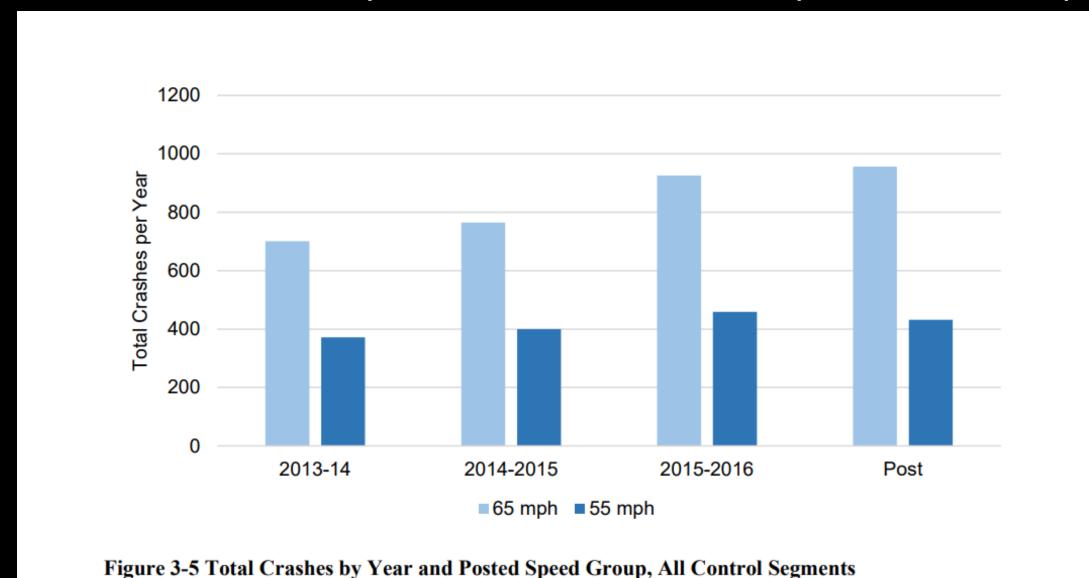
Source: "2021 ODOT: NHTSA Program Measures Statewide Public Opinion Survey Final Results Report", September 2021.

2021 ODOT Statewide Public Opinion Survey



Source: "2021 ODOT: NHTSA Program Measures Statewide Public Opinion Survey Final Results Report", September 2021.

Total Crashes by Year & Posted Speed Group



https://www.oregon.gov/odot/Engineering/Docs_TrafficEng/PSU-Report_Prelim-Analysis-Speed-Limit-Changes-Oregon.pdf

Highway 97 Oregon's 2nd Deadliest Highway 2016-2020 ODOT Report

- 77 Fatal Crashes on Hwy 97
- 23 Fatal Crashes in Klamath County
 (30% of all Hwy 97 Fatalities)



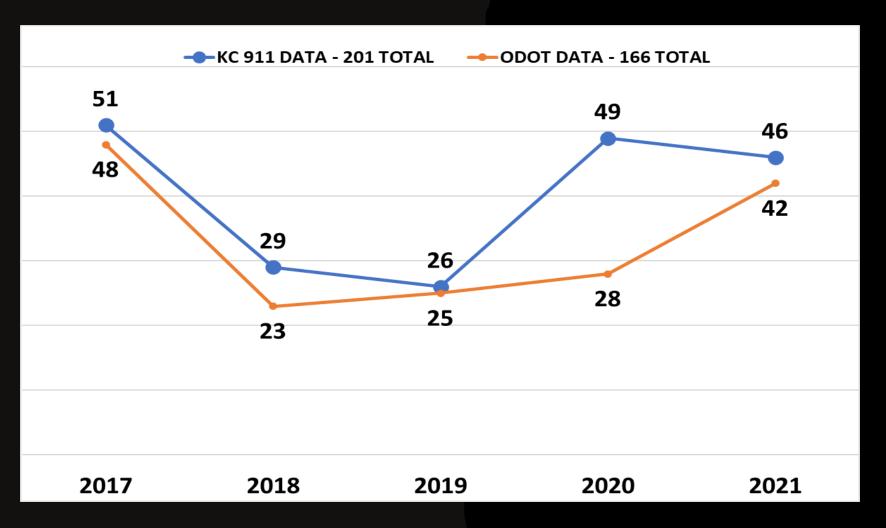
ODOT Injury Reporting - KABCO

Severity: Crash severity is equal to the most serious injury sustained by anyone involved in the crash, based on the *onscene assessment*, which may not align with final medical determination of injuries.

Severity is ranked on the KABCO scale:

- K Fatal injury, an injury that results in death
- A Incapacitating injury, a nonfatal injury that prevents the person from walking, driving, or doing activities they were capable of before the injury
- B Non-incapacitating evident injury, an injury that is evident to observers at the scene of the crash
- **C** Possible Injury, an injury or claim of an injury that is not evident to observers at the scene of the crash
- **O** No injury, also described as Property Damage Only (PDO)

Klamath County 911 Dispatch & ODOT MVC Data Comparison MP 228-242



Head-On MVC – Auto vs Semi Actual Outcomes

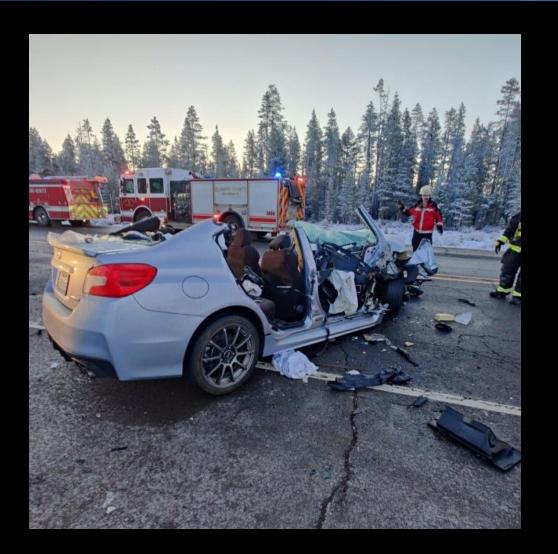
#1 DOA

#2 Critical
Transfer
Died HOD#3

#3 Critical Admission

#4 Stable Discharged

Trauma One - Injury Tracking



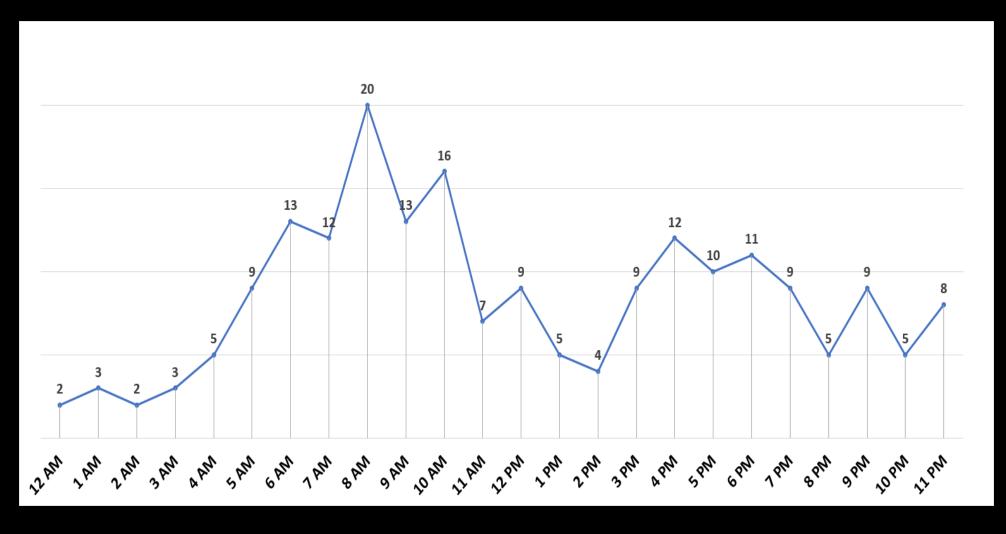
Actual Injuries – 6 Patients

- #1 DOA
- #2 DOA
- #3 Critical -> SLMC -> OHSU
- #4 Critical -> SLMC -> OHSU-D
- #5 Serious -> SLMC -> OR
- #6 Stable -> SLMC -> Home

2017 - 2021 Klamath County 911 MVC by Time of Day MP 228 - 242

ODOT Data 2017-2021 (166 Crashes)

- •160 Crashes on Straight Sections
- •110 Crashes on Snow or Icy Roads
- •105 Crashes Run off the Side of the Road
- •102 Crashes caused by driving too fast for conditions



Oregon Highway Safety Performance Plan – Fiscal Year 2023



Goals:

Decrease fatalities & serious injuries in Region 4
 by December 31, 2023.

Performance Measures:

- Decrease roadway departure fatalities & serious injuries in Region
 4 by December 31, 2023.
- <u>Decrease speed related fatalities & serious injuries in Region 4</u> by December 31, 2023.

Oregon Highway Safety Performance Plan – Fiscal Year 2023



Strategies:

- Identify corridors that have high frequencies of roadway departure crashes and collaborate and assist partner agencies with low-cost engineering, education, and enforcement initiatives to improve safety at those locations.
- Continue to increase the number and effectiveness of partnerships with groups outside of ODOT. Maintain and grow partnerships with local safety committees, and <u>community-based services such</u> <u>as hospitals, EMS providers, fire, health educators and health</u> <u>programs.</u>

ODOT Problem Identification Statements r/t EMS

Chiloquin Fire & Rescue

911 Dispatch to First On-Scene 28 Minutes

911 Dispatch to First Ambulance On-Scene 40 Minutes

Ambulance On-Scene 7 Minutes

Transport from Scene to Sky Lakes Medical Center 58 Minutes

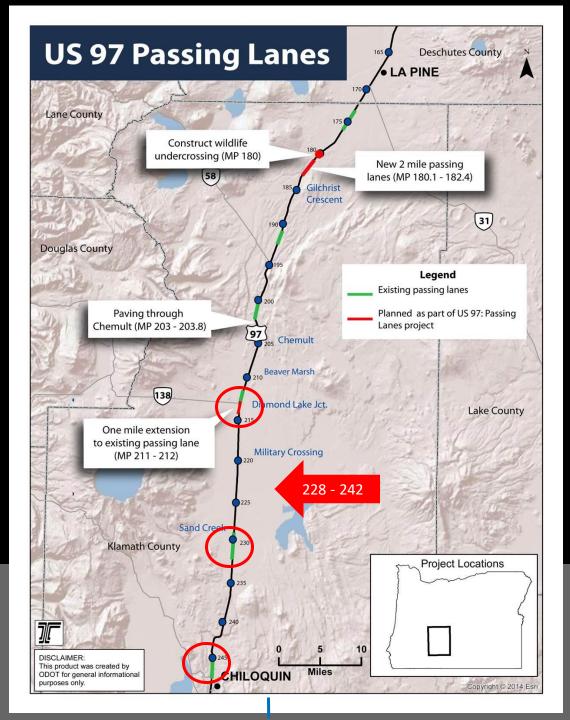
Crash to Hospital

1 Hour & 45 Minutes

- Rural crashes can be more severe than other crashes
 - often involve higher rates of speed
 - longer emergency response times.
- The stabilization and long-distance transport of MVC patients to facilities that can provide the appropriate level of trauma care is critical to reducing the health and financial impact of these injuries.
- The location of these crashes can seriously extend response times and delay adequate care needed in that critical 'golden hour' after a serious crash injury

MP 228-242





Passing Lanes:

- North on Sand Creek Hill
- South of Silver Lake Junction

Single Lanes:

- MP 228 242
- No Safety Corridor
- No Center Dividers
- No Side Rumble Strips





Passing Lanes & Rumble Strips

- Mile Post 207
- ~ 8.5-feet of asphalt Shoulder
- Side rumble strips



Single Lanes

- ~ 3.5-feet of asphalt shoulder
- No side rumble strips
- No safety signage
- 65mph speed zone



Mile Post 228 - 242









On-Scene Safety

Fire

EMS

Flight Crews

Law Enforcement

ODOT Crews

Tow Trucks

Safety Messaging

Seat Belts

Impaired Driving

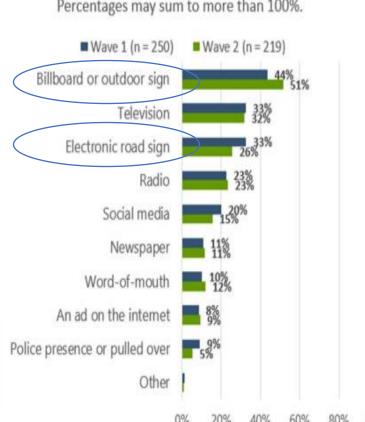
Speed

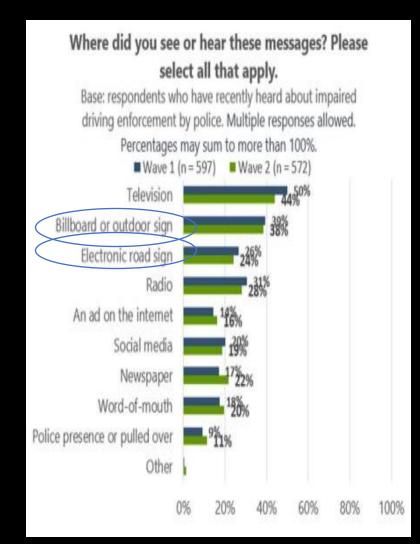
Enforcement

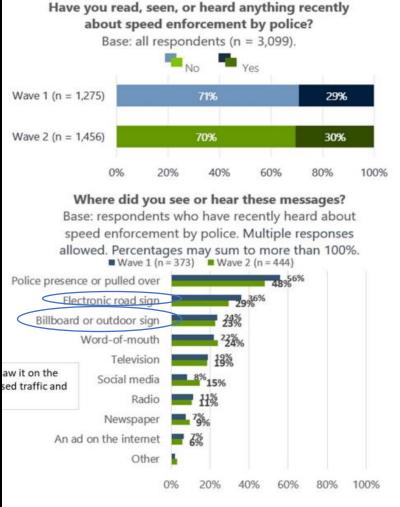
Where did you see or hear these messages?

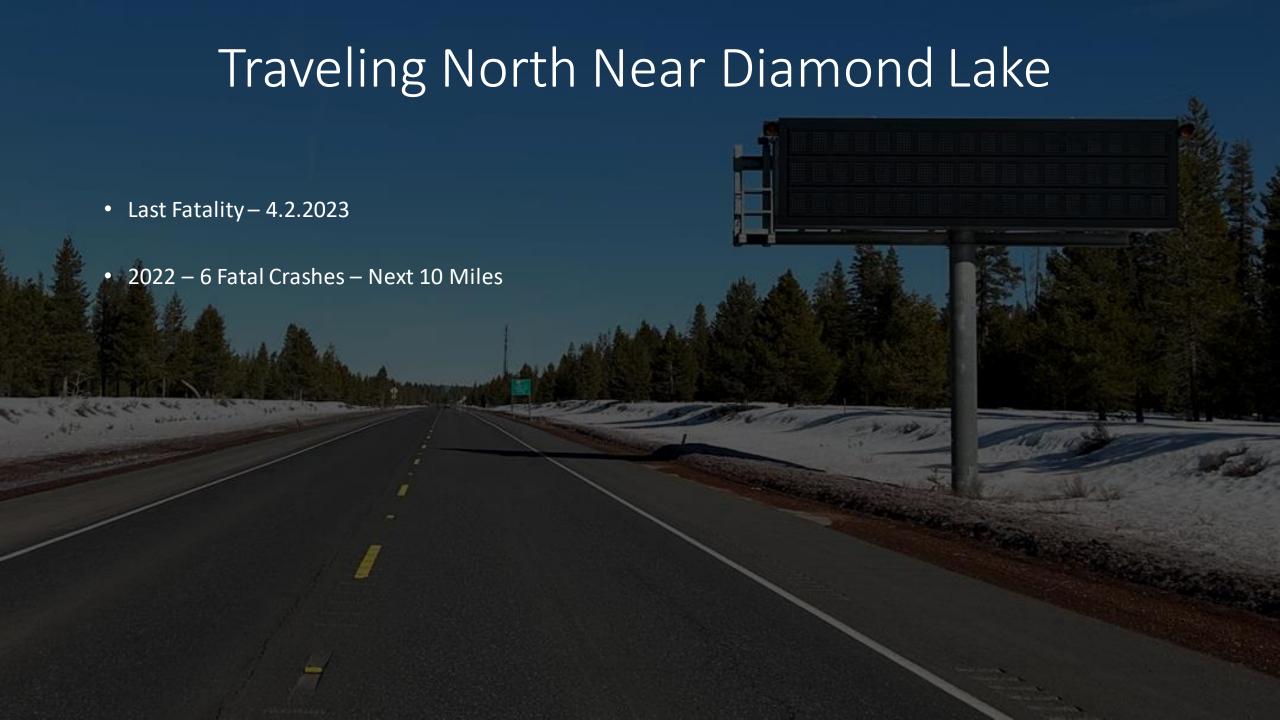
Base: respondents who recently heard about seat belt law enforcement by police. Multiple responses allowed.

Percentages may sum to more than 100%.

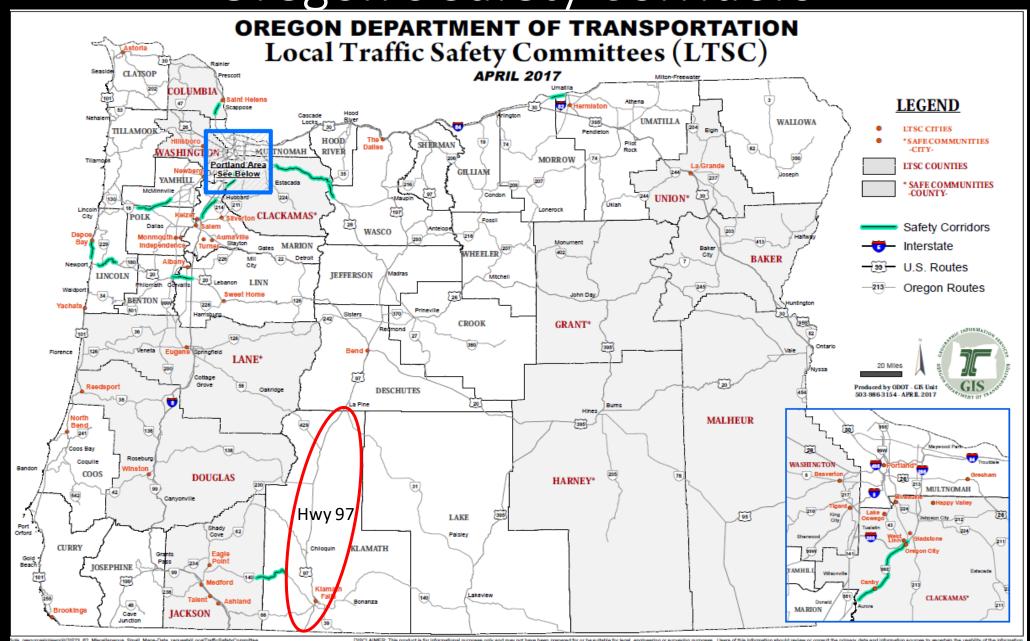


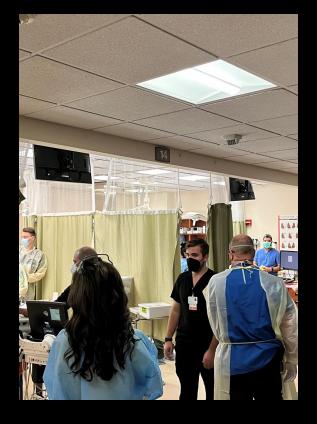




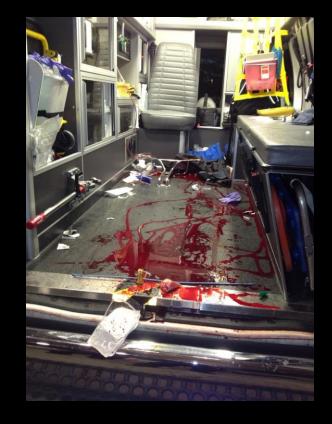


Oregon's Safety Corridors











As Our Trauma Teams
Prepare

As Our Family Members Serve

As We Travel Hwy 97 For Work

As We Travel Hwy 97 For Pleasure

WE WANT TO THANK YOU FOR HELPING KEEP OUR FAMILIES & HIGHWAYS SAFE