

**East Multnomah County** 

# Transportation Safety Action Plan

October 30, 2024







### EAST MULTNOMAH COUNTY TRANSPORTATION SAFETY ACTION PLAN TIMELINE

SUMMER

FALL

Phase 1: Listen & Learn

Jun - Nov 2024

Community Storytelling + Policy and Safety Analysis

**SPRING** 

Phase 2: Reflect & Dive In

Mar - Apr 2025

Develop and
Share Transportation
Safety Improvement
Recommendations

SUMMER

Phase 3: Refine

Jul - Aug 2025

**Prepare Draft Plan** 

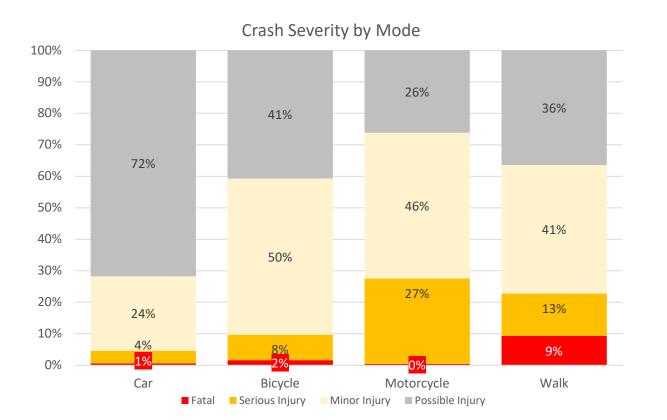
FALL

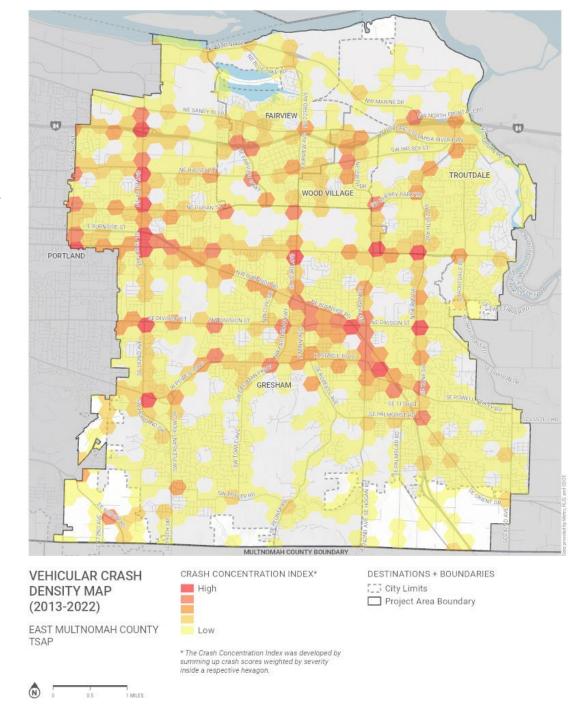
Final Plan Complete

Oct 2025

### **Key Crash Trends Summary**

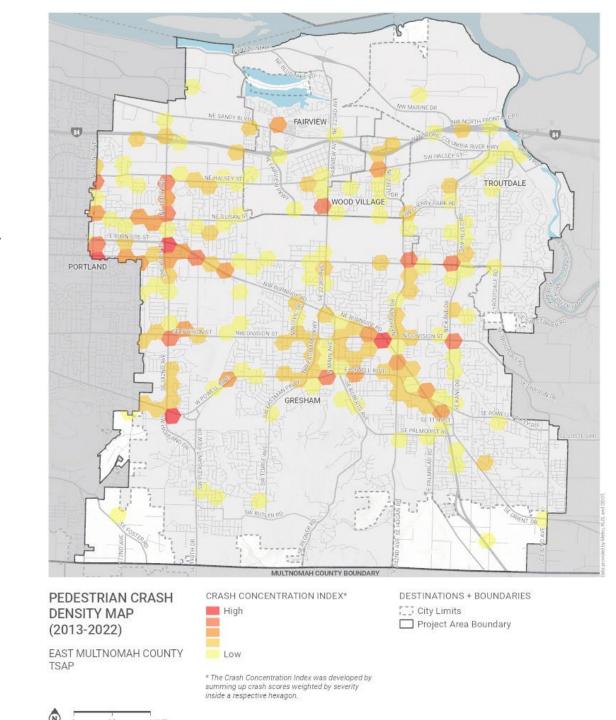
- 8,474 injury crashes occurred in the study area (2013 to 2022)
- Most severe crashes in East Multnomah County are on the arterial network
- People walking, biking and using a motorcycle were more likely to be involved in a serious injury or fatal crash





### **Pedestrian Crash Trends**

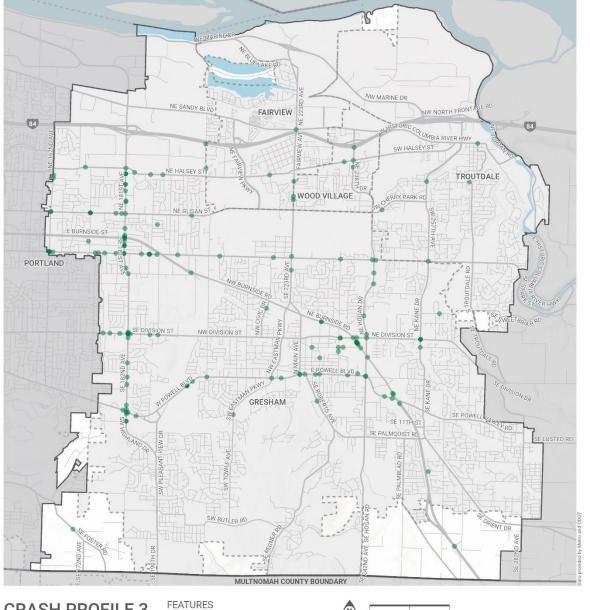
- The most common cause is failure to yield the ROW
- Second-most common cause is a pedestrian being illegally in the roadway
- The highest concentrations of all pedestrian crashes are surrounding the intersections at NE Division & NE Kane
   Drive, NE Burnside Rd & NE Division, SE 182nd Avenue &
   W Powell Boulevard, and E Burnside Street and SE 181st Avenue.
- High pedestrian crash corridors include SE Stark Street,
   Burnside Road, 181st, 182nd, and NE 162nd Avenues



### **Crash Profile: Pedestrian Crash, After Dark,** On Road with Full or Partial Sidewalk

- 46% of pedestrian fatal and serious injury crashes
- 38% of all pedestrian injury crashes
- Of all modes, crashes involving pedestrians were most likely to occur after dark (with or without streetlights). Pedestrians are vulnerable to poor visibility.
- Clusters near intersection of Burnside St/Division St
- Clusters along NE 181st Ave between NE Halsey St and SE Stark St





#### CRASH PROFILE 3

EAST MULTNOMAH COUNTY

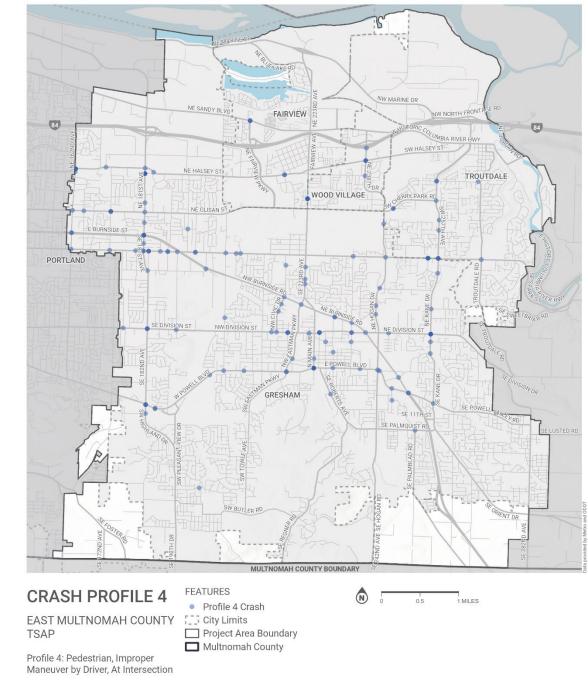
Profile 3: Pedestrian, After Dark, Road with Sidewalks

Multnomah County



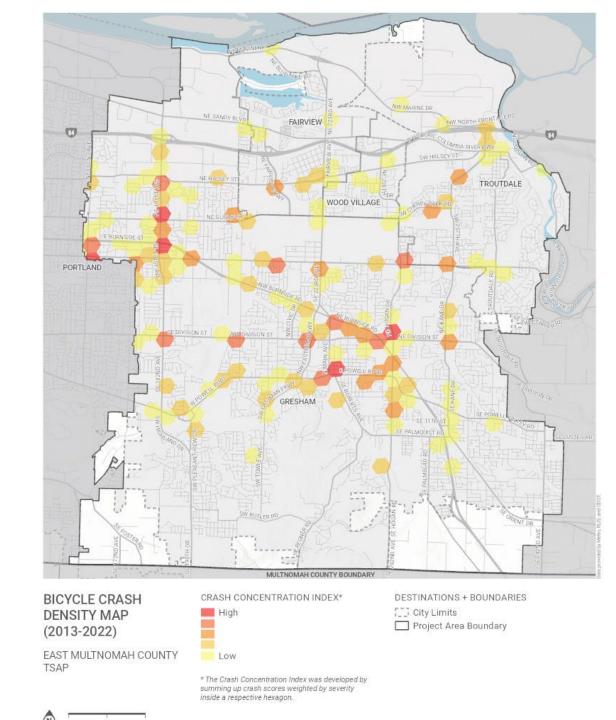
### Crash Profile: Pedestrian Crash, At intersection, with Improper Maneuver by Driver

- 25% of pedestrian fatal and severe injury crashes
- 38% of pedestrian injury crashes
- Equal split between signalized and unsignalized intersections
- Most common cause was failure to yield ROW



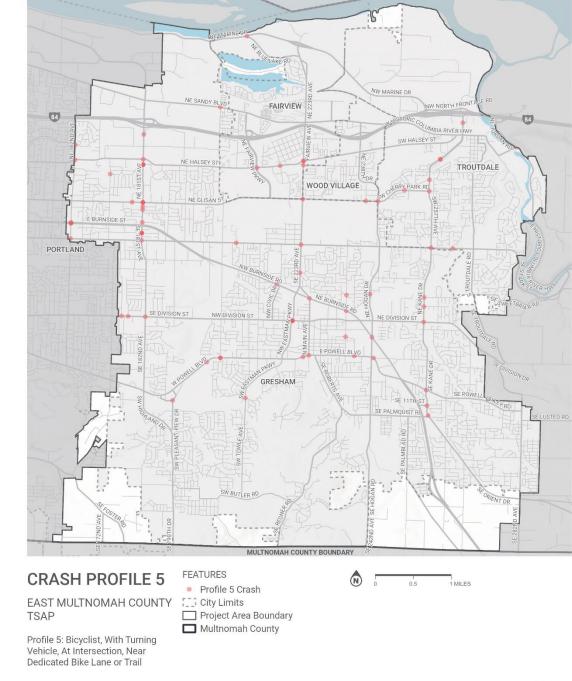
### **Bike Crash Trends**

- Bike crashes are concentrated in a few corridors:
  - 181st Avenue
  - Burnside Road
  - Powell Boulevard
  - NE Glisan Street
  - Segments of Powell Blvd, Kane Drive, and NE Halsey Street
  - Intersection of Burnside Road/Division Street



## Crash Profile: Bicycle Crash, At Intersection, with a Turning Vehicle, On Road with Dedicated Bike Facility

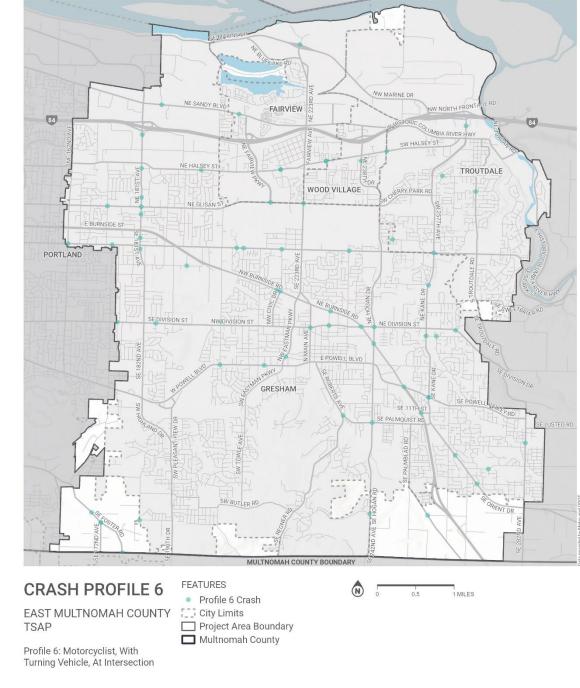
- Bike facilities are defined as bike lanes (protected and unprotected) and shared-use paths
- People riding bikes are still vulnerable to vehicles turning at intersections, even on dedicated facilities
- 33% of bicycle-involved fatal and serious injury crashes
- 29% of bicycle injury crashes
- In 70% of these crashes the cause was failure to yield ROW
- Crashes are concentrated on NE 181<sup>st</sup> Ave between NE Halsey St and SE Stark St (unprotected bike lane)





### Crash Profile: Motorcyclist Crash, At Intersection, with a Turning Vehicle

- 32% of motorcyclist fatal and serious injury crashes
- 30% of motorcyclist injury crashes
- Leading cause is failure to yield ROW
- 59% of these crashes were at unsignalized intersections
- In half of these crashes, one vehicle was making a left turn



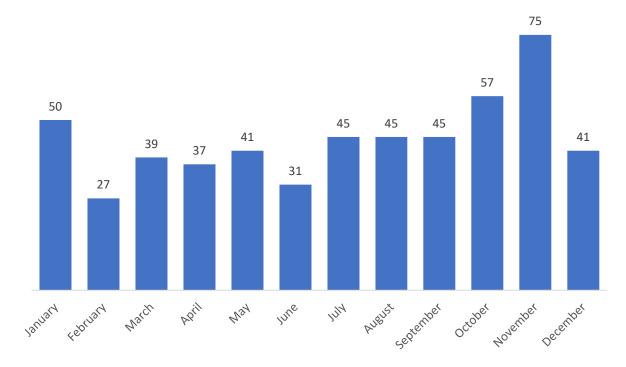






- Serious injury and fatal crashes spike in the winter months for all modes
- Trend cannot be explained just by darkness in winter, since darkness peaks in December
- The large spike in November possibly attributed to Daylight Savings Time change.







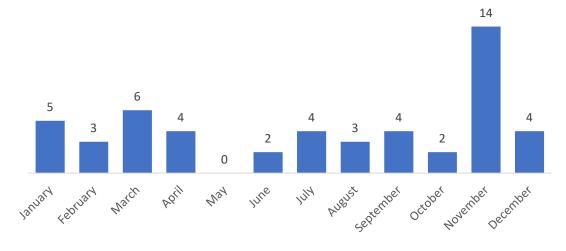
- Looking at crashes that occurred at dusk/dawn only, November and March both stand out
- The trend coincides with the months of Daylight Savings Time beginning and ending, when the dusk and dawn hours suddenly shift into peak commuting times:
  - November: sunset shifts earlier from about 6pm to 5pm
  - March: sunrise shifts later from about 6:30 am to 7:30 am
- Trend is especially prevalent for bicycle and pedestrian injury crashes at dusk or dawn in November



Injury Crashes at Dusk or Dawn by Month, All Modes

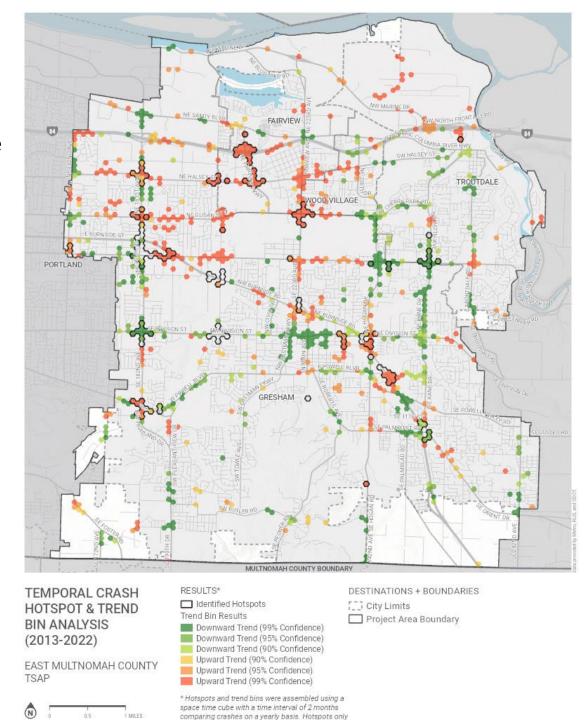


Bicycle and Pedestrian Injury Crashes at Dawn or Dusk



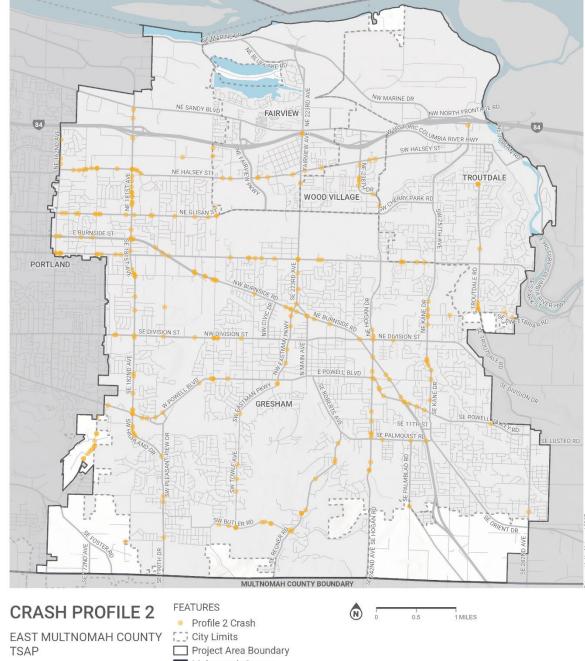
### **Temporal Crash Trends (2013-2022)**

- Red shows upward trend of number of crashes at that location over time
- Green shows downward trend of crashes at that location over time
- Black outline shows identified hot spots that consistently have a high number of crashes over time: communities of Wood Village and Fairview, along Burnside Road and Division Street and the 181st Ave/182nd Ave/Highland Drive corridor
- Crashes have increased over time in the communities of Wood Village and Fairview.
- Crashes have increased over time at the intersections of NE Burnside
   Road & NE Division Street and SE 181st Ave & SE Stark Street.
- Crashes have decreased over time in the community of Troutdale and along Division Street.



### **Crash Profile: Fixed Object Crashes on 35 MPH Roads**

- 9% of all fatal and severe injury crashes
- 3% of all injury crashes
- 35 MPH roads account for 13% of centerline miles overall, but 66% of fatal and severe injury crashes
- NE 181<sup>st</sup> Ave stands out on the profile map

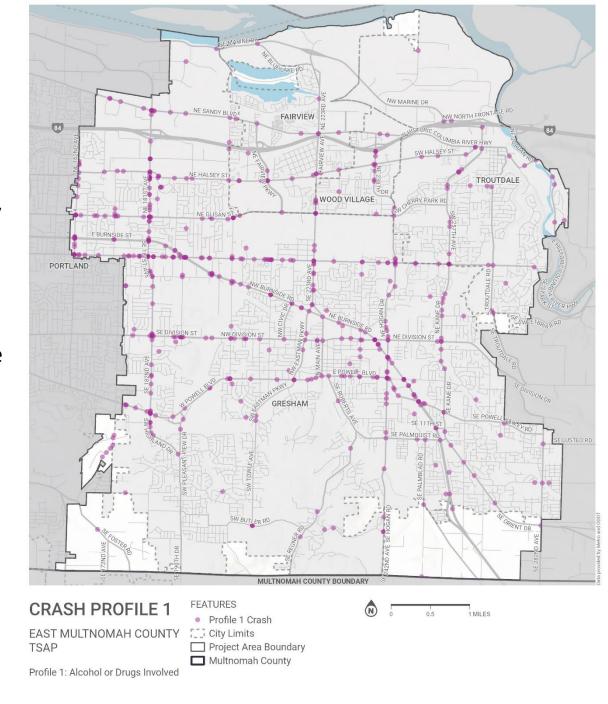


Profile 2: Fixed Object, 35 MPH

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### Crash Profile: Crashes with Drugs or Alcohol Involved

- Alcohol and drug involved crashes were four times as likely as injury crashes overall to result in a fatal and severe injury crash
- When the crash results in a fatality, about half the time the crash is with a pedestrian
- When the crash results in a serious injury, it is usually because an impaired driver collides with a fixed object
- The majority of all fatalities happen after dark, and of those after-dark fatalities, drug or alcohol impairment is involved in 83% of crashes.

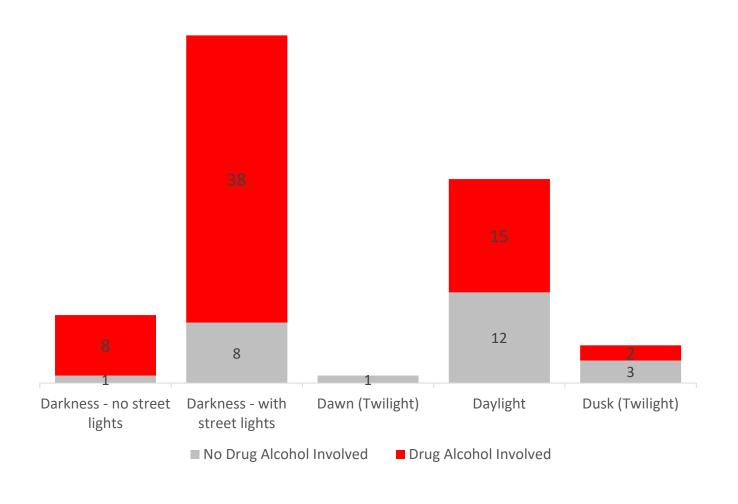




### **Drug and Alcohol Involved at Dark**

#### Fatalities by Time of Day

- While most injury crashes overall
  happen during daylight hours, the
  majority of fatalities happen after dark.
- Of these after-dark fatalities, drug or alcohol impairment is involved in 83% of crashes.
- Drug and alcohol impairment significantly increases crash severity in the study area, especially after dark







- Finalize Phase I Engagement Summary and Safety Analysis (Fall)
- Define Additional Analysis Topics (Winter)
- Goal setting (Spring)
- Begin Strategy and Project Selections (Winter/Spring)

