North Marion County Traffic Safety Update

Marion County Public Safety Coordinating Council
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Marion County Public Works | Traffic Engineering

Traffic Volume Trends
Previous 20 Years: 1995–2015

Arterial Crash Rate Trends
Previous 15 Years: 2000–2015
Crash Numbers by the Year

Recently Completed Projects

- Keil Road/OR-551 left-turn Lane improvements (ODOT)
- St. Paul Highway/Arbor Grove Road intersection signing enhancements
- Ehlen Road speed zone transition west of I–S interchange area
- French Prairie Bridge repairs
- Donald Road resurfacing
- Butteville Road/Ehlen Road intersection safety upgrades

Butteville Road/Ehlen Road Safety Upgrades

Sign and pavement marking upgrades completed in August 2016

- New STOP AHEAD pavement markings
- New oversized 48” STOP signs
- New oversized CROSS TRAFFIC DOES NOT STOP signs
- New oversized 48” Intersection warning signs
Butteville Road/Ehlen Road Safety Upgrades
Transverse rumble strips installed March 2017

Butteville Road/Ehlen Road Safety Upgrades
Transverse rumble strips installed March 2017

Butteville Road/Ehlen Road Safety Upgrades
Results by the numbers

<table>
<thead>
<tr>
<th>Year</th>
<th># Reported Crashes</th>
<th># Injury Crashes</th>
<th># Angle Crashes</th>
<th>Annual Crash Rate (Crashes/MEV) **</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>0.91</td>
</tr>
<tr>
<td>2013</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>0.88</td>
</tr>
<tr>
<td>2014</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0.29</td>
</tr>
<tr>
<td>2015</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>2.27</td>
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<tr>
<td>2016*</td>
<td>6</td>
<td>5</td>
<td>5</td>
<td>1.38</td>
</tr>
<tr>
<td>2017*</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>0.58</td>
</tr>
</tbody>
</table>

* 2016 and 2017 data are preliminary
** ODOT Expected crash rate = 1.080

Results by the numbers
Recently Completed Projects

- Pudding River (Whiskey Hill Road) Bridge replacement – Clackamas County
- Arndt Road resurfacing (Airport Road to OR-551)
- Donald Road resurfacing (Grim Road to Boones Ferry Road)
- Main Street resurfacing (Butteville Road to PNWR Tracks)
- Signing upgrades within Hubbard
- Signing upgrades within Donald
- Signing upgrades within St. Paul

Recently Completed Projects

- Signing upgrades within St. Paul

- New high visibility Crosswalk and Crosswalk Ahead Signs
- Replaced standard crosswalk markings with higher visibility “Continental” style bars

Current Projects

- River Road NE speed zone investigation
- Airport Road speed zone investigation
- Butteville Road speed zone investigation
- Airport Road/Arndt Road flashing yellow arrow upgrade
- Skookum Creek (Champoeg Road) culvert repair
- Boones Ferry resurfacing (Woodburn City Limits to Broadacres Road)
- Corridor wide horizontal curve signing enhancements
- Main Street/OR-219 intersection review (in partnership with ODOT)
Horizontal Curve Signing Enhancements

Main Street/OR-219 Intersection Review – St. Paul

Current Projects
MCPW Operations – Roads

*60+ Miles of Chip Seal Preservation – 2018
A sampling of roads on the list:
* Boones Ferry Road
* Airport Road
* Donald Road
* River Road NE
* Arbor Grove Road
* Arndt Road
* Grim Road

*Subject to Change
Current Projects

Other Agencies

* Ehlen Road/I-5 Interchange Plan – ODOT
* Track Repairs at Ehlen Road Crossing in Aurora – Union Pacific Railroad
* French Prairie Bridge Project – City of Wilsonville
* Ehlen Road/OR-551 Safety Improvements – ODOT

Ehlen Road/OR-551 Safety Improvement Project

Project Elements:

* Traffic signal replacement
* Exclusive left-turn lanes on Ehlen Road
* Traffic separator on Ehlen Road to restrict traffic to right turns at Boones Ferry Road
* New county connector road between Boones Ferry Road and OR-551
**Funded Projects**
All Roads Transportation Safety (ARTS)

- Highway Safety Improvement Program (HSIP) funds administered by ODOT
- Data driven project selection process
- Predictive model used to determine crash reduction benefit for various treatments
- Sites and treatments selected based on benefit/cost analysis
- Three projects funded in the North Marion County area

**Funded Projects**
All Roads Transportation Safety (ARTS)

- Ehlen Road/Butteville Road Advanced Warning System
Funded Projects
All Roads Transportation Safety (ARTS)
- Ehlen Road/Yergen Road/McKay Road and Butteville Road Centerline Rumble Strips

Planned Projects
Rural Transportation System Plan (RTSP)

Planned Projects
Rural Transportation System Plan (RTSP)
**Planned Projects**
RTSP 20-Year Recommended

* Bents Road realignment at Ehlen Road

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**Identified Projects**
RTSP 20-Year Recommended

* Butteville Road/Ehlen Road traffic control improvements
* Yergen Road/Donald Road intersection realignment
* McKay Road left-turn lane improvements at French Prairie Road
* OR-219/French Prairie Road/St. Paul Highway intersection realignment
Identified Projects
RTSP 20-Year Recommended (Continued)

- Broadacres Road railroad crossing improvements (gates and lights)
- Boones Ferry Road widening (Woodburn UGB to Crosby Road)
- Woodburn-Hubbard Road widening (Woodburn UGB to Hubbard UGB)

Identified Projects
RTSP Additional Identified Projects

- Boones Ferry Road/Broadacres Road horizontal and vertical realignment
- River Road/Davidson Road vertical realignment
- River Road widening (west of French Prairie Road)
- Arndt Road widening (Butteville Road to OR-351)

Identified Projects
Identified Since 2005 RTSP

- Ehlen Road two-way left-turn lane west of Bents Court
- Ehlen Road/Airport Road intersection capacity improvements (Aurora TSP)
- Ehlen Road/Airport Road signalization when warranted (Aurora TSP)
- Ehlen Road widening to arterial standards with shared use path, Airport Road to OR-99E (Aurora TSP)
- Arney Road widening, Woodburn UGB to Crosby Road