



# Load Rating Status

## December 2017 Update





# Overview

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- Unrated Bridges
- Specialized Hauling Vehicles
- Concrete Bridges With No Plans
- Emergency Vehicles



## Unrated Bridges

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- Load Ratings are required by the National Bridge Inspection Standards
- Oregon has 242 bridges that did not meet the completion date for the Plan of Corrective Action with FHWA



# Unrated State Bridges (112)

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- Segmental Bridge-1
- Steel Truss-5
- Complex Bridges – 8
- Concrete Culverts -98





# The Steel Bridge

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# St. Johns Bridge





## Unrated State Bridges (112)

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- Segmental Bridge-1 (Contract)
- Steel Truss-5 (ODOT)
- Complex Bridges – 8 (Contract)
- Concrete Culverts -98 (Contract)



## Unrated Local Bridges (130)

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- Steel Truss-6
- Steel Girder -1
- Complex Bridges – 4
- Concrete Culverts -119
  
- Timber -1 (Port of Astoria)





## Unrated Local Bridges (130)

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- Steel Truss-6 (ODOT)
- Steel Girder -1 (Contract)
- Complex Bridges – 4 (Contract)
- Culverts -119 (Contract)

Due Dates:

Bridges –March 2019

Culverts – September 2019



# Specialized Hauling Vehicles

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# FHWA Memo on SHV Ratings November 2013

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- Category 1 Bridges
  - Rating factors less than 1.3 for any of the 3 standard legal vehicles
  - Must be complete by December 2017
  - 728 Bridges (State and Local)



## 728 Category 1 Bridges

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- 100-No Restriction
- 39-Restriction
- 66-In process to be posted
- 152- Under Review
- 146- Currently under contract
- 184 – Future Contracts
- 37-Trusses to be done by ODOT
- 4 Other (Replaced, already rated...)



# Category 1 Bridge

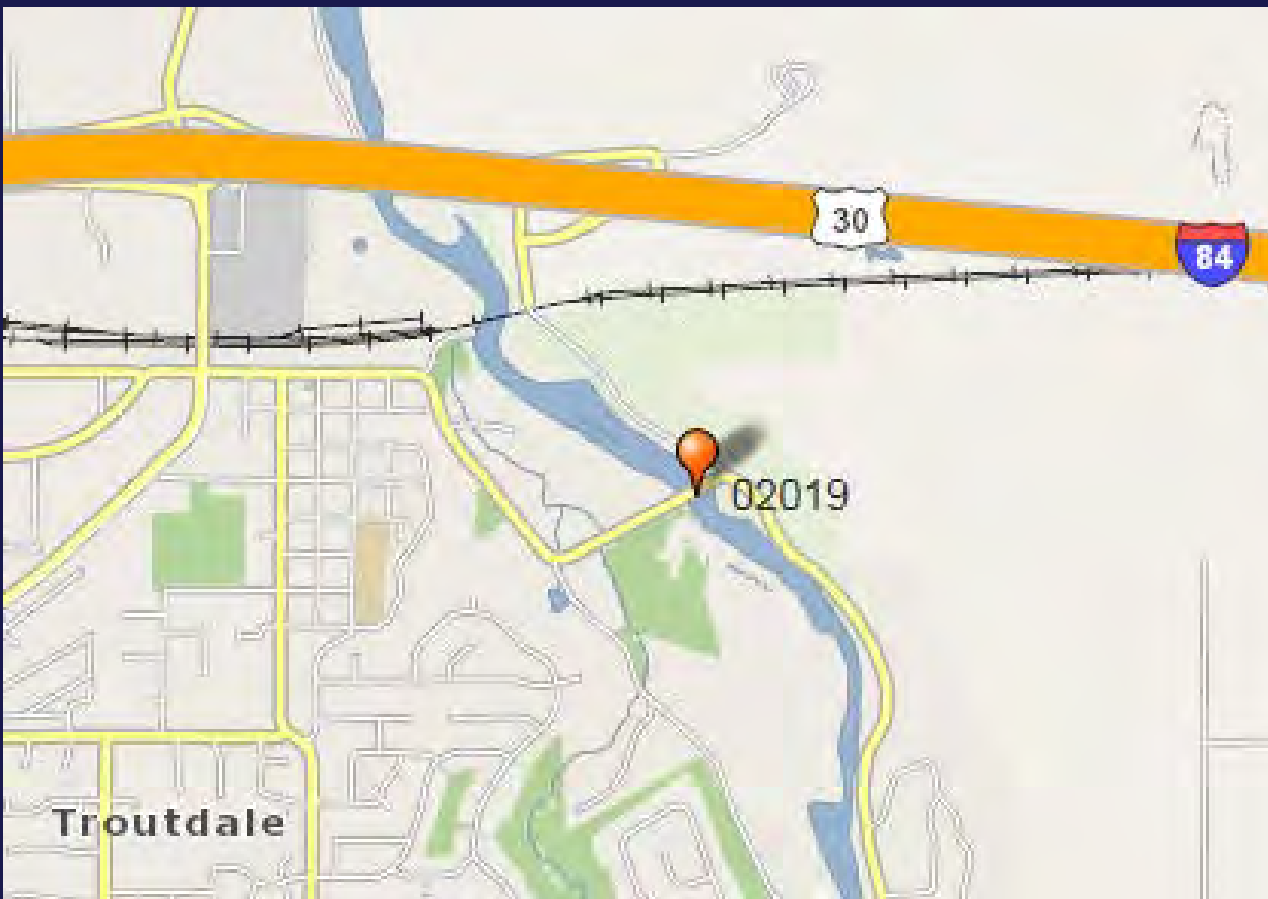







- 6 Restriction Letters Sent Oct-Nov 2017
- 12 More in 2017



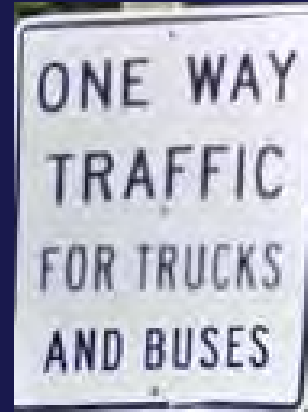
# First State Bridge Posted for SHV



WEIGHT LIMIT	
	21 T
4 AXLES	19 T
5 AXLES	21 T
6-7 AXLES	21 T
<hr/>	
	26 T
	26 T



# Sandy River Bridge







# Concrete Bridges With No Plans (246)

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- Load capacity cannot be calculated
- Judgement is used
  - Bridges in service more than 20 years with no distress have adequate load capacity for legal loads up to the SU4
  - Concrete bridges without plans that are in fair or better condition will be posted for the SU5, SU6, and SU7



# Concrete Bridges With No Plans (246)

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- October 20<sup>th</sup>
  - Lane County – 11 Restriction Letters
- November 3<sup>rd</sup>
  - Crook County – 1 Restriction Letter
- Nov 17<sup>th</sup>
  - Marion County -9 Restriction Letters
  - Lane County -1 (Found Plans)



# Fixing America's Surface Transportation Act (FAST)

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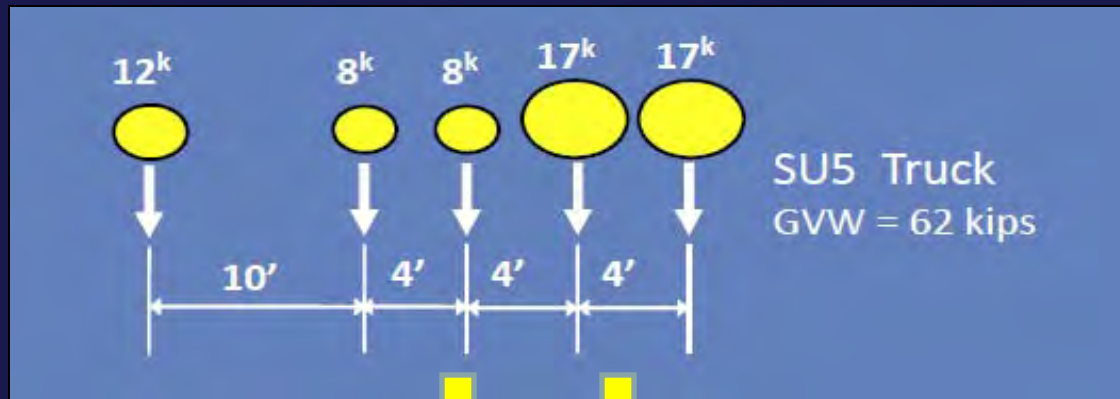
# Fixing America's Surface Transportation Act (FAST)

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- Interstate and within reasonable access to the Interstate
- Emergency Vehicle Limits
  - 86,000 Lbs. GVW
  - 24,000 Lbs. Single Steer Axle
  - 62,000 Lbs. Tandem Axle



# Fixing America's Surface Transportation Act (FAST)





## Progress

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- Bridges Identified (1175)
- Updated Summary Sheet
- Updated the Database

### Next Steps:

- Update the Manual
- Create a new table in Database
- Include EV's in all new ratings



# Bridge Groups

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Group 1 – Update Rating when conditions change

- Type 3 Rating Factor 1.85
- HS-20 Inventory Rating 1.0
- HL-93 Inventory Rating 0.9

(1044 Group 1 Bridges)



## Bridge Groups

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### Group 2 – Bridges not in Group 1

- Load Ratings will include EV's by December 31, 2019
- 97 are unrated
- 34 Meet the Category 2 Criteria

(131 Group 2 Bridges)





## Load Rating Efforts

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- Bridges with no load rating
  - 25 Bridges (2019)
  - 217 Culverts (2019)
- SHV Category 1 (2017)
- SHV Category 2 (2022)
- Emergency Vehicles (Interstate System) (2019)



# The End!

