

# ODOT PERMITS • OMA, NOVEMBER 29, 2017



OHIO DEPARTMENT OF  
TRANSPORTATION

## SPECIAL HAULING PERMITS

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## ODOT AT A GLANCE

- Over 48,000 lane miles
  - 38% Multi-lane
  - 62% Two-lane
- Designed and built using AASHTO standards for pavement design

## ODOT AT A GLANCE

- 20 year design life
  - Based on actual traffic & vehicle weights
  - Two lane 1.5" to 3" overlays every 8-15 years
- 13,985 vehicular bridges
  - 75 year design life

## PAVEMENT AND STRUCTURES

- Pavement and structures are built on actual and expected traffic and vehicle weights



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## PAVEMENT AND STRUCTURES

- Any overweight vehicle traveling without a permit or over the permitted weight are taking more than their share of M&M's from the bag

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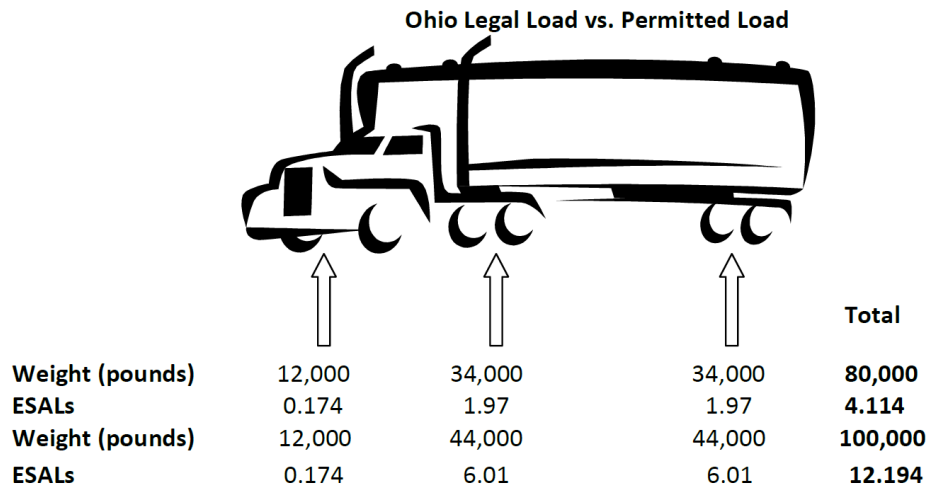
## PAVEMENT AND STRUCTURES

- In 2009, ODOT conducted a study on the cost overweight vehicles have on our infrastructure
- \$144 million annually

## PAVEMENT AND STRUCTURES

- Increasing a single axle load by 20% or 4,000 lbs (from 20,000 lbs to 24,000 lbs) doubles the damage -a 100% increase

## PAVEMENT AND STRUCTURES



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## PAVEMENT AND STRUCTURES

- For the same truck, if the load is increased to 100,000 lbs with:
  - 12,000 lbs on the steering axle;
  - 44,000 lbs on the tandem drive axle; and
  - 44,000 lbs on the tandem trailer axle
- ...the Axle Load Equivalency Factors are 0.174, 6.01, and 6.01, respectively
- The total ESAL value for the 100,000 lb truck is 12.194

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## PAVEMENT AND STRUCTURES

- The result of a 25% increase in weight (80,000 lbs -> 100,000 lbs) is 196% more pavement damage as measured by ESALs (4.114 -> 12.194)

## LEGAL DIMENSIONS AND WEIGHTS

- 13' 6" high
- 8' 6" wide
- 53' long (semi/ semi-tractor trailer combination)
- 80,000 lbs gross weight
- 34,000 lbs for tandem axles
- 20,000 lbs for single axles

## HAULING PERMITS

- ODOT has issued 365,000+ permits and collected \$43+ million in fees over the last 365 days
- Rules on fees and permit issuance are found in the Ohio Administrative Code (OAC)

## REGIONAL HEAVY HAUL PERMITS

- Ohio Revised Code (ORC) Section 4513.34 allows ODOT (and Local Political Authorities for roadways within their jurisdiction) to issue permits to vehicles that exceed the legal dimensions and weight limits found in ORC 5577.04 and ORC 5577.05

## REGIONAL HEAVY HAUL PERMITS

- Routing is based on a structural analysis and is done at the time of application
- The maximum distance from the origin entered on an application is 150 miles

## REGIONAL HEAVY HAUL PERMITS

- **Regional Heavy Haul Permit Weights:**
  - 50,000 lbs for Tandem axle 4' 1"
  - 60,000 lbs for Tri-axle 4' 1"
  - 80,000 lbs for Quad-axle 4' 1"



## REGIONAL HEAVY HAUL PERMITS

- Single trip permits: One movement within a 5 day period, no gross weight limit, must stay within axle limits
  - Up to 120,000 lbs gross weight: \$145
  - 120,000+ lbs: \$145 + \$0.04 per ton per mile over the 120,000 lbs

## REGIONAL HEAVY HAUL PERMITS

- 90 day permits: Make multiple moves between the same origin and destination over the same route
  - Maximum gross weight is 120,000 lbs
  - Permit is \$510

# WHY OBTAIN A PERMIT



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# WHY OBTAIN A PERMIT



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# WHY OBTAIN A PERMIT



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# QUESTIONS



*Last updated 11/30/2017*

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