



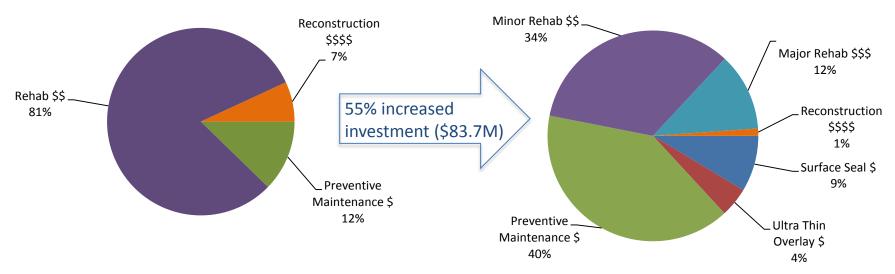
Surface Treatment Program Workshop



# Improvements to Surface Treatment Pavement Management

# FY12 Treatment Strategies Percentage of Treatment Length (Centerline Miles)

FY16 Treatment Strategies
Percentage of Treatment Length
(Centerline Miles)



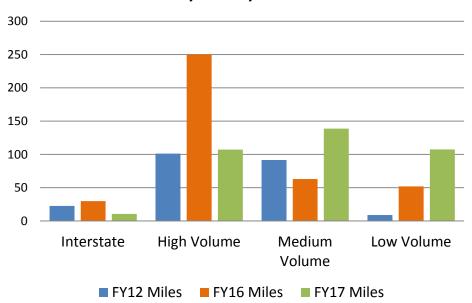
- Before Ramp Investments
- Before Drivability Life Metrics

- After Ramp Investments
- After Drivability Life Metrics



# Improvements to Surface Treatment Pavement Management

### Treatment Centerline Miles FY12, FY16, & FY 17



FY12 to FY16 Change in Treatment Miles							
	FY12 Miles	FY16 Miles	FY17 Miles	Avg. Percent Change			
Interstate	22.5	29.8	10.6	12%			
High Volume	101.2	250.2	107.1	76%			
Medium Volume	91.5	62.9	138.7	10%			
Low Volume	8.8	51.8	110.4	822%			
All Categories	224.0	394.7	366.8	70%			



# Improvements to Surface Treatment Pavement Management

#### **Investment Efficiency**

	Total		·		
	Centerline	Total STP	Efficiency	Treatment Cycle	
	Miles	Investment *	Dollars/Mile	Time	
FY12	224.0	\$180,338,799	\$804,940	41 years	
FY16	394.7	\$217,087,000	\$549,958	24 years	
FY17	366.8	\$218,460,000	\$595,567		

<sup>\*</sup> total construction funds in today's dollars







### **FY16 Surface Treatment Program**

- FY16: \$235.9 Million
- 83% of FY16 projects match model recommendations (Commission desire was 80%)
- 46 Surface Treatment Projects total



#### **Recall Condition Metric:**

High DL > 10 years Drivability Life

Moderate DL = 4-10 years Drivability Life

Low DL  $\leq$  3 years Drivability Life

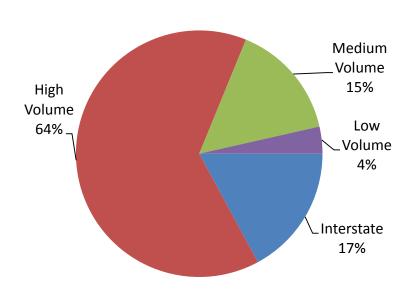
Project Example: 036D, Milepost 220, just west of Kansas border.

- 2013 DL = 6
- 2016 Chip Seal is planned

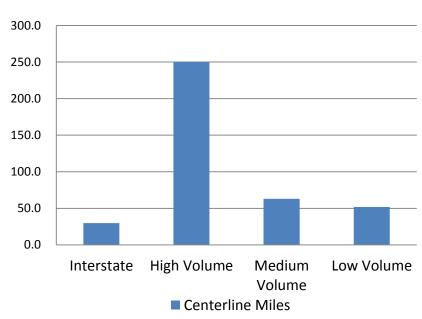


### **FY16 Surface Treatment Program**

# FY16 Percent of Dollars Invested in Each Pavement Traffic Category



### **FY16 Treatment Centerline Miles in Each Pavement Traffic Category**



395 total centerline miles planned



### **FY17 Surface Treatment Program**

- FY17: \$240 Million (Anticipated)
- 82% of FY17 projects match model recommendations (Commission desire was 80%)
- 45 Surface Treatment Projects total



#### **Recall Condition Metric:**

High DL > 10 years Drivability Life

Moderate DL = 4-10 years Drivability Life

Low DL  $\leq$  3 years Drivability Life

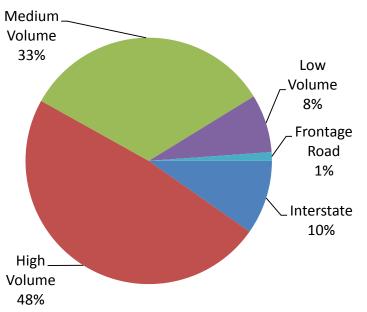
Project Example: 23A, Milepost 0 to 17.5 outside of Holyoke

- 2013 DL = from 2 to 7
- 2017 Project planned with mix of treatments TBD

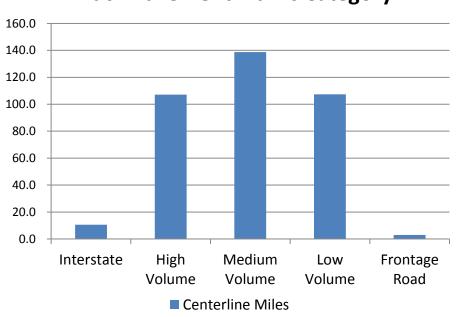


### **FY17 Surface Treatment Program**

# FY17 Percent of Dollars Invested in Each Pavement Traffic Category



### **FY17 Treatment Centerline Miles in Each Pavement Traffic Category**



367 total centerline miles planned



### **Key Take-Aways**

- Exceeded Commission desire for 80% match between Surface Treatment Plan and Pavement Management Recommendations
  - 82.4% match for FY16 & 17 combined
  - 762 centerline miles of work planned in FY16 & 17
- Surface Treatment Program ability to proactively manage and mitigate risks
  - Long range project planning cost estimates will change as projectlevel investigation and design details are refined.
  - Exact beginning and ending mileposts may change to ensure logical construction limits.
  - As projects details are refined, project funding may be modified or redirected among Regional projects to optimize expenditures and construct the complete scope of STP work planned statewide.
  - As project details are refined, funding may be redirected, if approved, between planning years while maintaining planning total amounts over time.
  - Treatment options are defined in the Pavement Design Manual.
     Exceptions can be granted with approval of the Chief Engineer.