

NYS PAVEMENT TARGET SETTING - DRAFT

NYS Department of Transportation, Office of Technical Services

May 2018

Overview

As per 23 CFR Part 490 – National Performance Management Measures; States are required to set 2 year interim targets and 4 year targets for four pavement performance measures to assess performance of the National Highway System (NHS). The measures are:

1. Percentage of Interstate System in Good Condition
2. Percentage of Interstate System in Poor Condition
3. Percentage of non-Interstate NHS in Good Condition
4. Percentage of non-Interstate NHS in Poor Condition

MPO Requirements

MPOs establish pavement performance targets by either:

- Agreeing to plan and program projects that contribute toward the accomplishment of the State DOT target or
- Committing to a quantifiable target for each pavement performance measure for the metropolitan planning area.

Timeline

- States must establish pavement performance targets by May 20, 2018.
- MPOs must agree to support state targets or establish their own within 180 days of the State establishing and reporting its pavement targets. The first MPO targets are due by November 16, 2018.
- States have the option to adjust 4 year targets in their Mid Performance Period Progress Report, due October 1, 2020.

Performance Measure Determination

1. Metrics Analyzed *
 - Asphalt Surfaces – rutting, IRI (smoothness), cracking (percent area with fatigue cracking in the wheelpath)
 - Concrete Surfaces – faulting, IRI (smoothness), cracking (percent of concrete slabs with transverse cracks for jointed concrete pavement)
2. Performance Measure Determination
 - Good if all 3 metrics are good
 - Poor if 2 or more metrics are poor
 - Fair for all other combinations

* Metric thresholds shown in table under Additional Information

NYS DOT's Target Setting Framework

1. Use NYS DOT's accepted pavement management modeling program with committed projects and minimum expected future funding for the NHS
2. Use NYS DOT's Surface Score Rating System on pavement management sections
 - Score ≥ 8 equates to federal measure good
 - Score ≤ 5 equates to federal measure poor
3. Adjust percentages by applying the difference between the federal baseline percentage and state surface rating percentages to account for differences in rating systems and averaging that occurs over longer pavement management sections. Assume difference remains constant. Baseline data shown under Additional Information.

Recommended Pavement Performance Measure Targets - Draft

Federal Measure	Baseline (%)	2 Year Interim Target (%)	4 Year Target (%)
Interstate % Good	52.2	46.4	47.3
Interstate % Poor	2.7	3.1	4.0
Non-Interstate % Good	20.4	14.6	14.7
Non-Interstate % Poor	8.3	12.0	14.3

Additional Information

Federal Pavement Performance Condition Thresholds

Metric	Good	Fair	Poor
IRI (inches/mile)	<95	95-170	>170
Rutting (inches)	0.20	0.20-0.40	>0.40
Faulting (inches)	<0.10	0.10-0.15	>0.15
Cracking (%)	<5	5-20 (asphalt) 5-15 (JCPC) 5-10 (CRCP)	5-20 (asphalt) 5-15 (JCPC) 5-10 (CRCP)

Difference Between Federal Baseline and State Surface Rating

NHS Type	Baseline Federal Report		NYSDOT Score		Delta (Federal Report - NYSDOT)	
	% G	% P	%VG&E (≥8)	%P (≤5)	% G	% P
Interstate	52.2	2.7	45.2	1.5	7.0	1.2
non-Interstate	20.4	8.3	26.2	4.0	-5.8	4.3