

Southeastern States Pavement Conference

Charleston, WV October 25, 2018

HPMS Pavement Report Card

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KNOWLEDGE TODAY FOR PERFORMANCE TOMORROW

AGENDA

HPMS Pavement Data Report Card

- User Manual
- Updates to the PRC
- How are we doing

User Manual

HPMS 8.0.1	DATA CHECK AN	(INTERSTATE)			 Comment (MGG16): Page 2 of the PEC fluxures on missing data; both geometric and pavernent discress
FIPS CODE	99 STATE NAME	UTOPIA	STATE ADDREVIATION	UP	
YEAR 2015 HM-41 INTER	ESTATE CENTERLINE MILES			901.036	 Comment [MGG17]: Interstate center the roles based on previous year's submission as reported in Table MM-61.
SUBMITTED DATA INTER	RSTATE CENTERLINE MILES			951,036	Comment (MGG18): Interdate senter the roles from autorities date.
DELTA				p.ooq	
YEAR 2015 HM-40 INTER	ESTATE LANE MILES			4,140.570	Comment [HGG19]: Sprifturn vertations should be investigated and explained in submission comments.
SUBMITTED DATA INTER	RSTATE LANE MILES			k.140.57d	Comment [HGG20]: Sgriffunit variations should be investigated and equipment in submission comments.
DELTA				bood	Comment (MGG21): Interdate brieffles level on previous year's
TOTAL INTERSTATE LAN	NE MILES FULL EXTENT EXCLUDING S	ECTIONS CODED AS A BRIDGE		4.000.014	submission as reported in Table HM-CI
					Comment [MGG22]: Interstate lane rolles from submitted data.
DATA QUANTITY - P	PAVEMENT				Comment [MGG23]: Spriftum vertations should be investigated and
		CKING PERCENT DATA FROM SURFACE_TYPE	BETWEEN 2 AND 10 AND EXCLUD	NG 47.952	explained in submission comments.
	RIDGES - MARKED AS UNRESOLVED (LUDING SECTIONS CODED AS		Comment [MGG26]: This is the expected value of lane retire that will be retent as Good Fair-Four on page 1. Exceptions would be if a State has
TOTAL INTERSTATE LANE MILES FULL EXTENT MISSING FAULTING DATA FROM PCC PAVEMENTS AND EXCLUDING SECTIONS CODED AS BRIDGES - MARKED AS UNPRESOUVED DATA			0.000	surface types of unpeved or other.	
TOTAL INTERSTATE LAN SECTIONS CODED AS B	NE MILES FULL EXTENT WHERE IR! DA PUDGES - MARKED AS UNRESOLVED I	KTA IS NULL OR ZERO FROM SURFACE_TYPE (DATA	SETWEEN 2 AND 10 AND EXCLUDIN	0.000	
	NE MILES FULL EXTENT WHERE IR! OF CODED AS BRIDGES - MARKED AS UN	OLLECTION DATE NOT VALID FROM SURFACE, RESOLVED DATA	TYPE BETWEEN 2 AND 10 AND	0.000	
TOTAL INTERSTATE LANE MILES FULL EXTENT MISSING RUTTING DATA FROM AC PAVEMENTS AND EXCLUDING SECTIONS CODED AS BRIDGES - MARKED AS UNPESCUIVED DATA.				0.000	Comment [HGG25]: These fire rows blentily lane roles of pavement
LANE MILES FULL EXTER	NT SURFACE TYPE IS NULL AND EXCL	LIDING SECTIONS CODED AS BRIDGES - MARK	KED AS UNRESOLVED DATA	1,703,727	where required pavement distress data is missing or invalid
LANE MILES FULL EXTER	NT SURFACE TYPE - 1 UNSURFACED	AND EXCLUDING SECTIONS CODED AS BRIDG	ES - MARKED AS UNRESOLVED D	TA 0.000	 Comment [MGG26]: Lane release have surface type is NULL and rating cannot be determined. Previously, surface type was only required on
LANE MILES FULL EXTER	NT SURFACE TYPE - 11 OTHER AND E	EXCLUDING SECTIONS CODED AS BRIDGES - N	MARKED AS UNRESOLVED DATA	0.000	samples. 20 CPS 480 requires surface type as full extent on the NHS.
LANE MILES FULL EXTER	NT SURFACE TYPE IS AC			1,416.755	Comment [HGG27]: Unpevel surface type is not an acceptable value
LANE MILES FULL EXTER	NT SURFACE TYPE IS PCC			079.002	for the interstate
LANE MILES FULL EXTENT SUPFACE TYPE IS CROP			0.000	Comment [HGG28]: ter endrate on Surface_Type = 11, Other	
TOTAL INTERSTATE LANE MILES WHERE THROUGH LANES IS CODED AS A 1.2, OR 3. ALTHOUGH THIS IS POSSIBLE AT INTERSTATE TERMINAL SECTION OR SOME INTERCHANGES THESE SECTIONS GHOULD BE VERIFIED.			2.064	Comment [MGG29]: This and following two rows quantity tane roles: by surface type.	
		SING - MARKED AS UNRESOLVED DATA		0.000	Comment [HGG30]: ter endrote
		CE DATA IMPROVEMENT ZONES WHERE DAT	A SUM I DISE VERIEED OR CORRE	CTED	Comment [MGG21]: Through large are required for all section of the
ITEMS SHADED ORANGE	EARE REMEDIA PROLIMENT PERFORMAN	ICE DATA IMPROVEMENT ZUNES WHERE DAT	A STRUCTURE SERVICE ON CONTRA	The F State	madeway per 28 CFS 690. Any value greater than 0,0000 is a critical error.

Updates

Written around implementation of the Performance Management Final Rule

- Full Extent (required; 23 CFR 490.307)
- Missing or Invalid Data (no more than 5%; 23 CFR 490.313)

Planned

- Link to SOP calculations
- Spatial alignment
- PSR

2016 Interstate

39 States on time

35 States less than 5.0% missing data

20 States had less than 5.0% missing or invalid data

Unresolved data – comments in HPMS Software forwarded to states

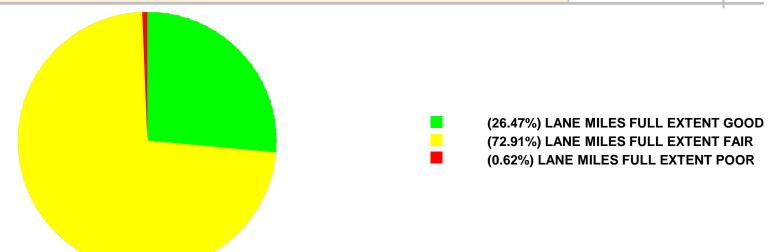
FULL EXTENT LANE MILES RATING (INTERSTATE)

Stage: Year: Review 2017 99 - UTOPIA 05/09/2017

State: Date:

LANE MILES FULL EXTENT GOOD	367.700

LANE MILES FULL EXTENT FAIR	1,012.884
LANE MILES FULL EXTENT POOR	8.680
TOTAL	1,389.264
ESTIMATED TOTAL INTERSTATE LANE MILES MISSING OR INVALID DATA	3,942.812
% ESTIMATED TOTAL INTERSTATE LANE MILES MISSING OR INVALID DATA - LIMIT 5.0%	73.95 %
SAMPLE SIZE	26.13 %
% SURFACE TYPE BETWEEN 2 AND 10 RATED AS G-F-P	95.81 %



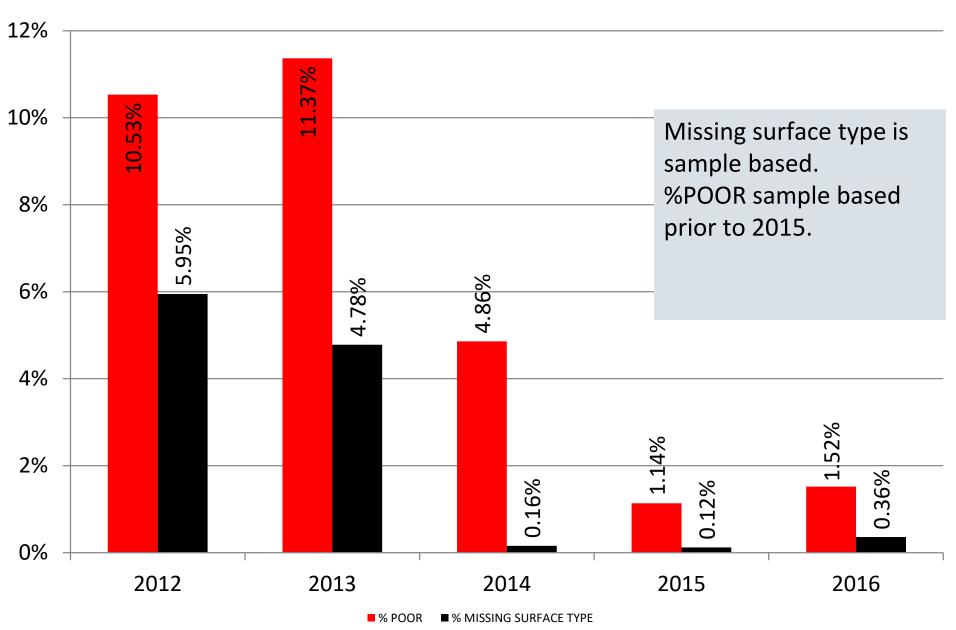
THE HPMS PAVEMENT REPORT CARD'S PURPOSE IS TO PROVIDE FEEDBACK TO DIVISIONS AND STATES ON THEIR HPMS PAVEMENT SUBMITTAL DATA IN RESPONSE TO REQUIREMENTS OF 23 CFR 490. THE REPORT CARD IS FOR INFORMATION ONLY AND SHOULD NOT BE CONSIDERED THE OFFICIAL CALCULATION OF MEASURES OR MISSING OR INVALID DATA FOR A STATE.

BASED ON 23 CFR 490 THE REPORT CARD IS ANALYZING FULL EXTENT, NOT SAMPLE BASED, PAVEMENT DATA. STATES ARE ENCOURAGED TO SUBMIT FULL EXTENT DATA PRIOR TO ITS REQUIREMENT SO THEY CAN BETTER ASSESS THEIR DATA SUBMISSION.

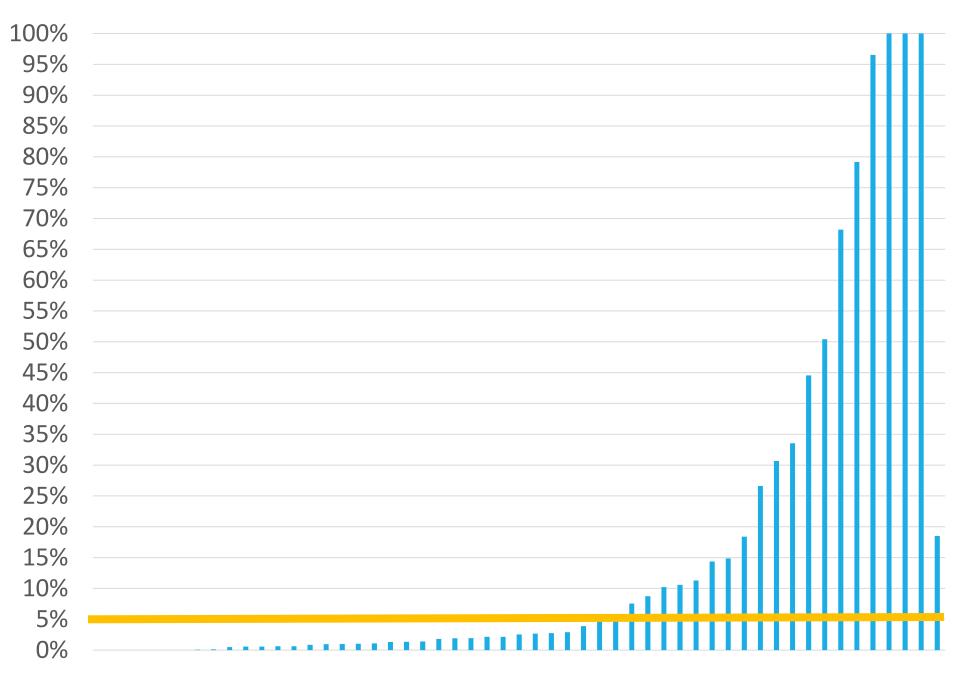
2016 INTERSTATE G-F-P



INTERSTATE % POOR AND MISSING SURFACE TYPE



% MISSING OR INVALID



DATA CHECK AND PAVEMENT DATA QUANTITY (INTERSTATE)

Stage: Review 2017

Year: 2018

State: 99 - UTOPIA **Date:** 07/09/2018

DATA CHECK

FIPS CODE	99	STATE NAME	UTOPIA STATE ABBREVIATION	U
YEAR 2015 HM-41 II	NTERSTATE C	CENTERLINE MILES		1,104.300
SUBMITTED DATA I	NTERSTATE C	CENTERLINE MILES		1,181.590
DELTA				77.290
YEAR 2015 HM-43 II	NTERSTATE L	ANE MILES		5,179.415
SUBMITTED DATA I	NTERSTATE L	ANE MILES		5,508.695
DELTA				329.280
TOTAL INTERSTATI	E LANE MILES	FULL EXTENT EXCLU	DING SECTIONS CODED AS A BRIDGE	5,332.076
DATA QUANTIT	Y - PAVEMI	ENT		
		FULL EXTENT MISSINAS UNRESOLVED DAT	IG CRACKING PERCENT DATA FROM SURFACE_TYPE BETWEEN 2 AND 10 AND EXCLUDING SECTIONS A	59.608
TOTAL INTERSTATE AS UNRESOLVED D	_	FULL EXTENT MISSIN	IG FAULTING DATA FROM PCC PAVEMENTS AND EXCLUDING SECTIONS CODED AS BRIDGES - MARKED	0.000
		FULL EXTENT WHER AS UNRESOLVED DAT	E IRI DATA IS NULL OR ZERO FROM SURFACE_TYPE BETWEEN 2 AND 10 AND EXCLUDING SECTIONS A	1.200
		FULL EXTENT WHER - MARKED AS UNRESO	E IRI COLLECTION DATE NOT VALID FROM SURFACE_TYPE BETWEEN 2 AND 10 AND EXCLUDING DLVED DATA	1.200
TOTAL INTERSTATE - MARKED AS UNRE			IG RUTTING DATA FROM AC PAVEMENTS AND EXCLUDING SECTIONS CODED AS BRIDGES	0.000
LANE MILES FULL F	XTENT SURF	ACE TYPE IS NULL AN	ID EXCLUDING SECTIONS CODED AS BRIDGES - MARKED AS UNRESOLVED DATA	3,882.004
LANE MILES FULL F	XTENT SURF	ACE TYPE = 1 UNSUR	FACED AND EXCLUDING SECTIONS CODED AS BRIDGES - MARKED AS UNRESOLVED DATA	0.000
LANE MILES FULL E	XTENT SURF	ACE TYPE = 11 OTHER	R AND EXCLUDING SECTIONS CODED AS BRIDGES - MARKED AS UNRESOLVED DATA	0.000
LANE MILES FULL E	XTENT SURF	ACE TYPE IS AC		1,390.464
LANE MILES FULL E	XTENT SURF	ACE TYPE IS PCC		59.608
LANE MILES FULL E	XTENT SURF	ACE TYPE IS CRCP		0.000
		WHERE THROUGH LA	NES IS CODED AS A 1,2, OR 3. ALTHOUGH THIS IS POSSIBLE AT INTERSTATE TERMINAL SECTION OR VERIFIED.	1.980
TOTAL CENTERLIN	MILES WHE	RE THROUGH_LANES	IS MISSING - MARKED AS UNRESOLVED DATA	0.000

PAVEMENT DATA QUALITY - IRI (INTERSTATE)

Stage: Review 2016

99 - UTOPIA State: 05/09/2017

Date:

TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE IRI COLLECTION DATE NOT VALID FROM SURFACE_TYPE BETWEEN 2 AND 10 AND EXCLUDING SECTIONS CODED AS BRIDGES - MARKED AS UNRESOLVED DATA. IRI DATA IS REQUIRED TO BE COLLECTED AND REPORTED ANNUALLY ON THE INTERSTATE	1.200
ALONG WITH THE DATE OF COLLECTION. IRI COLLECTION YEAR SHOULD EQUAL YEAR_RECORD	
% INTERSTATE LANE MILES FULL EXTENT IRI COLLECTION YEAR DOES NOT EQUAL YEAR_RECORD. CUTOFF VALUE TO FLAG FOR VERIFICATION IS 0.00%	0.08 %
TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE IRI DATA IS NULL OR ZERO FROM SURFACE_TYPE BETWEEN 2 AND 10 AND EXCLUDING SECTIONS CODED AS BRIDGES - MARKED AS UNRESOLVED DATA	1.200
% INTERSTATE LANE MILES FULL EXTENT WHERE IRI DATA IS NULL OR ZERO. CUTOFF VALUE TO FLAG FOR VERIFICATION IS 0.00%	0.08 %
FULL EXTENT LANE MILES WITH MISSING OR INVALID IRI, FROM SURFACE_TYPE BETWEEN 2 AND 10 AND EXCLUDING SECTIONS CODED AS BRIDGES	1.200
% FULL EXTENT LANE MILES MISSING OR INVALID IRI EXCLUDING SECTIONS CODED AS BRIDGES - SIP SP5	0.08 %
TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE IRI IS LESS THAN 30.0 INCHES/MILE. ALTHOUGH VALUES LESS THAN 30.0 INCHES PER MILE ARE POSSIBLE THEY ARE NOT LIKELY AND SHOULD BE VERIFIED. YOU MAY WISH TO REFER TO THE ATTACHED IRI CUMULATIVE DISTRIBUTION.	85.744
% INTERSTATE LANE MILES FULL EXTENT IRI LESS THAN 30.0 INCHES PER MILE. AVERAGE VALUE IS 1.23%, CUTOFF VALUE TO FLAG FOR VERIFICATION IS 0.00%	5.91 %
TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE IRI IS GREATER THAN 400.0 INCHES/MILE. ALTHOUGH VALUES GREATER THAN 400.0 INCHES PER MILE ARE POSSIBLE THEY ARE NOT LIKELY AND SHOULD BE VERIFIED. YOU MAY WISH TO REFER TO THE ATTACHED IRI CUMULATIVE DISTRIBUTION.	0.120
% INTERSTATE LANE MILES FULL EXTENT IRI GREATER THAN 400.0 INCHES PER MILE. AVERAGE VALUE IS 0.0%, CUTOFF VALUE TO FLAG FOR VERIFICATION IS 0.00%	0.01 %
LANE MILES FULL EXTENT GOOD BASED ON PSR WHERE IRI IS NULL	0.000
LANE MILES FULL EXTENT POOR BASED ON PSR WHERE IRI IS NULL	0.000
ITEMS SHADED ORANGE ARE HPMS PAVEMENT PERFORMANCE DATA IMPROVEMENT ZONES WHERE DATA SHOULD BE VERIFIED OR CORRECTED	

PAVEMENT DATA QUALITY - CRACKING PERCENT (INTERSTATE)

Stage: Year:

Review 2016 99 - UTOPIA State: 05/09/2017

Date:

TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE CRACKING PERCENT IS REPORTED AS 0.00%. MULTIPLE STATES REPORTED VERY HIGH VALUES FOR THEIR PAVEMENTS AND THESE SHOULD BE VERIFIED. YOU MAY WISH TO REFER TO THE ATTACHED CRACKING PERCENT CUMULATIVE DISTRIBUTION.	766.642
% INTERSTATE LANE MILES FULL EXTENT WHERE CRACKING PERCENT IS REPORTED AS 0.00%. AVERAGE IS 61.79% WITH A SD OF 26.02%, CUTOFF VALUE TO FLAG FOR VERIFICATION IS 87.82%	52.87 %
TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE CRACKING PERCENT IS REPORTED > 0.00% AND < 1.00%. THIS MAY BE AN INDICATION THAT A STATE MAY HAVE A PROBLEM CONVERTING DECIMAL TO PERCENTAGES. CRACKING PERCENT IS TO BE REPORTED WITH A PRECISION OF 1.00% OR LESS. MULTIPLE STATES REPORTED VERY HIGH VALUES FOR THEIR PAVEMENTS AND THESE SHOULD BE VERIFIED.	153.831
% INTERSTATE LANE MILES FULL EXTENT WHERE CRACKING PERCENT IS REPORTED > 0.00% AND < 1.00%. AVERAGE IS 9.53% WITH A SD OF 17.26%, CUTOFF VALUE TO FLAG FOR VERIFICATION IS 26.79%	10.61 %
TOTAL INTERSTATE LANE MILES FULL EXTENT FOR PAVEMENTS CODED AS HMA WHERE CRACKING PERCENT IS REPORTED GREATER THAN 54.00%. CRACKING PERCENT FOR HMA IS LIMITED TO WHEELPATH AND THEREFORE SHOULD NOT EXCEED 54.00% FOR A 12-FOOT LANE WIDTH. MULTIPLE STATES REPORTED VERY HIGH VALUES FOR THEIR PAVEMENTS AND THESE SHOULD BE VERIFIED.	7.084
% INTERSTATE LANE MILES FULL EXTENT FOR HMA PAVEMENTS WHERE CRACKING PERCENT IS REPORTED GREATER THAN 54.00%. AVERAGE IS 0.29% WITH A SD OF 0.46%, CUTOFF VALUE TO FLAG FOR VERIFICATION IS 0.00%	0.51 %
TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE CRACKING PERCENT IS REPORTED AS 100.00%. MULTIPLE STATES REPORTED VERY HIGH VALUES FOR THEIR PAVEMENTS AND THESE SHOULD BE VERIFIED. YOU MAY WISH TO REFER TO THE ATTACHED CRACKING PERCENT CUMULATIVE DISTRIBUTION.	0.000
% INTERSTATE LANE MILES FULL EXTENT WHERE CRACKING PERCENT IS REPORTED AS 100.00%. AVERAGE IS 0.16% WITH A SD OF 0.65%, CUTOFF VALUE TO FLAG FOR VERIFICATION IS 0.81%	0.00 %

ITEMS SHADED ORANGE ARE HPMS PAVEMENT PERFORMANCE DATA IMPROVEMENT ZONES WHERE DATA SHOULD BE VERIFIED OR CORRECTED

PAVEMENT DATA QUALITY - FAULTING AND RUTTING (INTERSTATE)

 Stage:
 Review 2016

 Year:
 99 - UTOPIA

 State:
 05/09/2017

Date:

TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE SURFACE TYPE IS JOINTED PCC AND FAULTING IS EQUAL TO 0.00. MULTIPLE STATES REPORTED VERY HIGH VALUES AND THIS DATA SHOULD BE VERIFIED. YOU MAY WISH TO REFER TO THE ATTACHED FAULTING CUMULATIVE DISTRIBUTION.	0.000
% INTERSTATE LANE MILES FULL EXTENT WHERE SURFACE TYPE IS JOINTED PCC AND FAULTING IS EQUAL TO 0.00. AVERAGE IS 56.41% WITH A SD OF 36.57%, CUTOFF VALUE TO FLAG FOR VERIFICATION IS 92.98%	0.00 %
TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE SURFACE TYPE IS JOINTED PCC AND FAULTING IS GREATER THAN 1.00 INCH. MULTIPLE STATES REPORTED VERY HIGH VALUES AND THIS DATA SHOULD BE VERIFIED. YOU MAY WISH TO REFER TO THE ATTACHED FAULTING CUMULATIVE DISTRIBUTION.	3.594
% INTERSTATE LANE MILES FULL EXTENT WHERE SURFACE TYPE IS JOINTED PCC AND FAULTING IS GREATER THAN 1.00 INCH. AVERAGE IS 0.06% WITH A SD OF 1.12%, CUTOFF VALUE TO FLAG FOR VERIFICATION IS 0.00%	6.03 %
TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE SURFACE TYPE IS HMA AND RUTTING IS EQUAL TO 0.00. MULTIPLE STATES REPORTED VERY HIGH VALUES AND THIS DATA SHOULD BE VERIFIED. YOU MAY WISH TO REFER TO THE ATTACHED RUTTING CUMULATIVE DISTRIBUTION.	0.000
% INTERSTATE LANE MILES FULL EXTENT WHERE SURFACE TYPE IS HMA AND RUTTING IS EQUAL TO 0.00. AVERAGE IS 15.07% WITH A SD OF 23.93%, CUTOFF VALUE TO FLAG FOR VERIFICATION IS 39.00%	0.00 %
TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE SURFACE TYPE IS HMA AND RUTTING IS GREATER THAN 1.00 INCH. MULTIPLE STATES REPORTED VERY HIGH VALUES AND THIS DATA SHOULD BE VERIFIED. YOU MAY WISH TO REFER TO THE ATTCHED RUTTING CUMULATIVE DISTRIBUTION.	1.700
% INTERSTATE LANE MILES FULL EXTENT WHERE SURFACE TYPE IS HMA AND RUTTING IS GREATER THAN 1.00 INCH. AVERAGE IS 0.00% WITH A SD OF 0.02%, CUTOFF VALUE TO FLAG FOR VERIFICATION IS 0.00%	0.12 %
TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE RUTTING IS REPORTED ON SURFACE TYPE = PCC OR CRCP	59.608
MANY STATES REPORT ALL DISTRESSES REGARDLESS OF SURFACE TYPE. VALUES OTHER THAN 0% SHOULD BE VERIFIED AS THIS MAY BE AN ERROR OR THE RESULT OF DIFFERENT SOURCES OF REPORTING DATA	100.00 %
TOTAL INTERCTATE LANE MILEC FULL EXTENT WHERE FALL TING IS REPORTED ON CHIREACE TYPE. LIMA OR CROR	0.000
TOTAL INTERSTATE LANE MILES FULL EXTENT WHERE FAULTING IS REPORTED ON SURFACE TYPE = HMA OR CRCP	0.000
MANY STATES REPORT ALL DISTRESSES REGARDLESS OF SURFACE TYPE. VALUES OTHER THAN 0% SHOULD BE VERIFIED AS THIS MAY BE AN ERROR OR THE RESULT OF DIFFERENT SOURCES OF REPORTING DATA	0.00 %

ITEMS SHADED ORANGE ARE HPMS PAVEMENT PERFORMANCE DATA IMPROVEMENT ZONES WHERE DATA SHOULD BE VERIFIED OR CORRECTED

HPMS 8.0.1 PAVEMENT DATA QUALITY - BRIDGE AND SECTION LENGTH (INTERSTATE)

PERCENT HPMS BRIDGE LANE MILES OF NBI BRIDGE LANE MILES. CUTOFF FOR VERIFICATION IS LESS THAN 90.00% OR GREATER THAN

Stage: Review 2016 **Year:** 99 - UTOPIA **State:** 05/09/2017

91.04 %

Date:

BRIDGE LOCATION

PER MAP-21 BRIDGES ARE EXCLUDED FROM THE PERFORMANCE MEASURE CALCULATION. THE ABILITY TO ACCURATELY LOCATE BRIDGES IN HPMS IS VERY IMPORTANT IN THE CORRECT CALCULATION OF PAVEMENT CONDITION.

COUNT OF MAINLINE INTERSTATE BRIDGES OF DATA YEAR 2016 FROM NBI INVENTORY

1,282

TOTAL INTERSTATE LANE MILES OF BRIDGES OF DATA YEAR 2016 FROM NBI INVENTORY

194.009

TOTAL LANE MILES ON FULL EXTENT BASIS CODED AS A BRIDGE IN HPMS

SECTION LENGTH

100.00%.

DISTRESS DATA SHOULD BE REPORTED IN SECTIONS 0.1 MILE IN LENGTH OR SHORTER	
TOTAL INTERSTATE LANE MILES WHERE SECTION LENGTH IS GREATER THAN 0.11 MILE (0.1 MILE NOMINAL) EXCLUNRESOLVED DATA	UDING BRIDGES - MARKED AS 0.00
CUTOFF VALUE FOR VERIFICATION IS 0.00%	0.00 %

ITEMS SHADED ORANGE ARE HPMS PAVEMENT PERFORMANCE DATA IMPROVEMENT ZONES WHERE DATA SHOULD BE VERIFIED OR CORRECTED

BRIDGES

MAP-21 excluded bridges from pavement performance calculation

NBI definition of bridges – length =>20 ft.

Comparing lane-miles of bridges from NBI

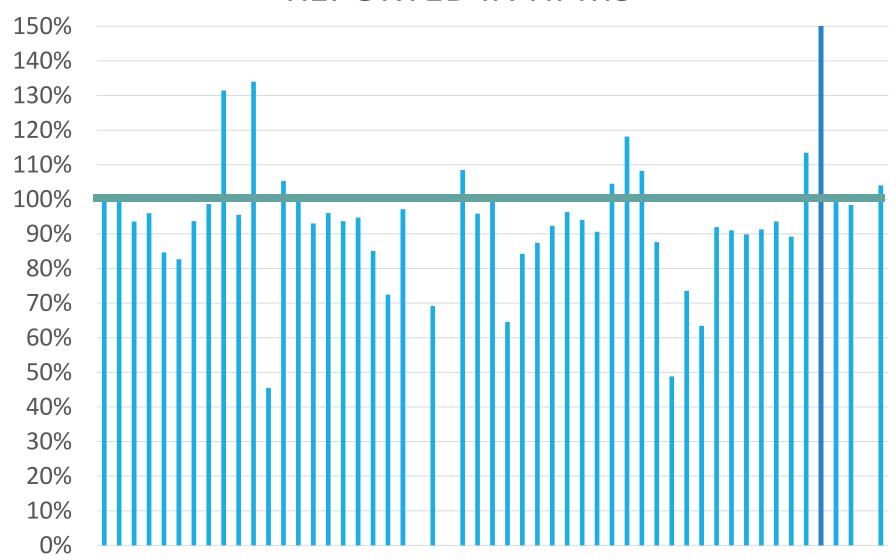
Will never match – 90 to 100% good

- Definition of lanes
- Dual carriageway
- Border bridges

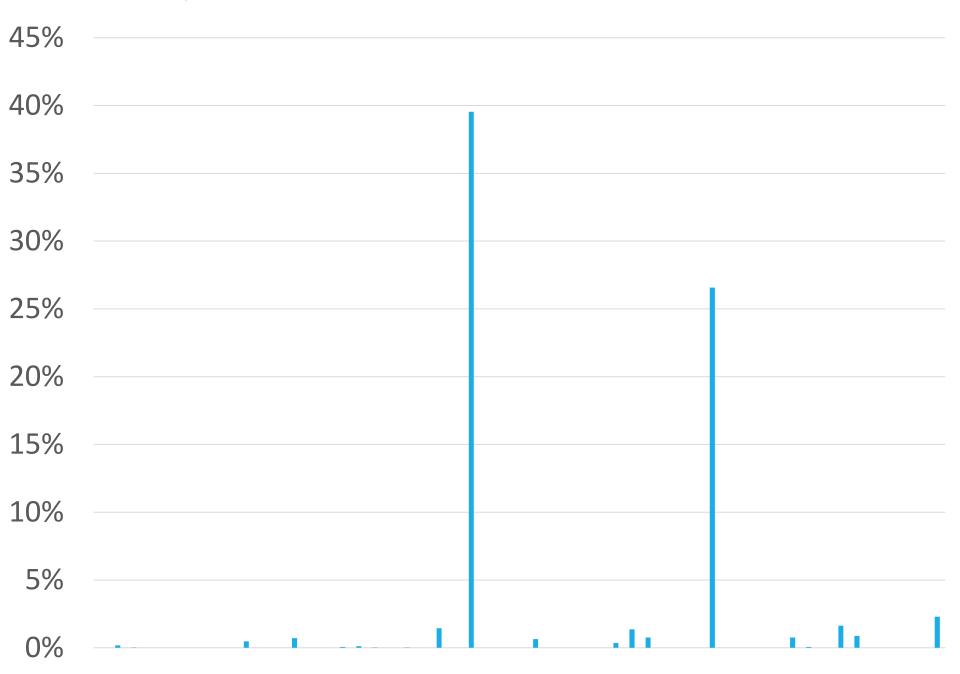
Issues

- HPMS error
- NBI error
- LRS error

% 2015 NBI BRIDGE LANE MILES REPORTED IN HPMS



% SECTION LENGTH EXCEEDS 0.11 MILE

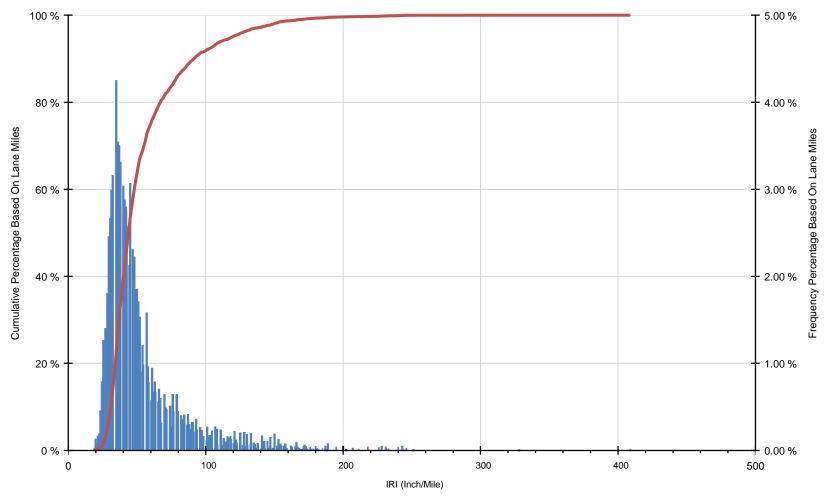


CUMULATIVE AND FREQUENCY DISTRIBUTION - IRI (INTERSTATE)

Stage: Review 2016 Year: 99 - UTOPIA

05/09/2017

State: Date:



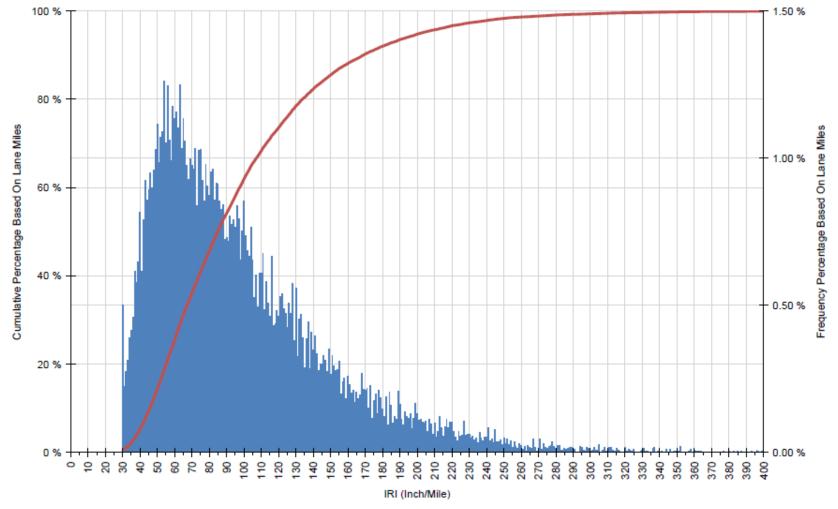
(Frequency of Missing IRI = 0.083%, missing data is included in the cumulative distribution graph.)

CUMULATIVE AND FREQUENCY DISTRIBUTION - IRI -CLOSEUP 0 TO 400 (INTERSTATE)

Stage: Submit Year: 2015

State: 100 - ROUNDOFF

Date: 05/11/2017



(Frequency of Missing IRI = 0.113%, missing data is included in the cumulative distribution graph.)

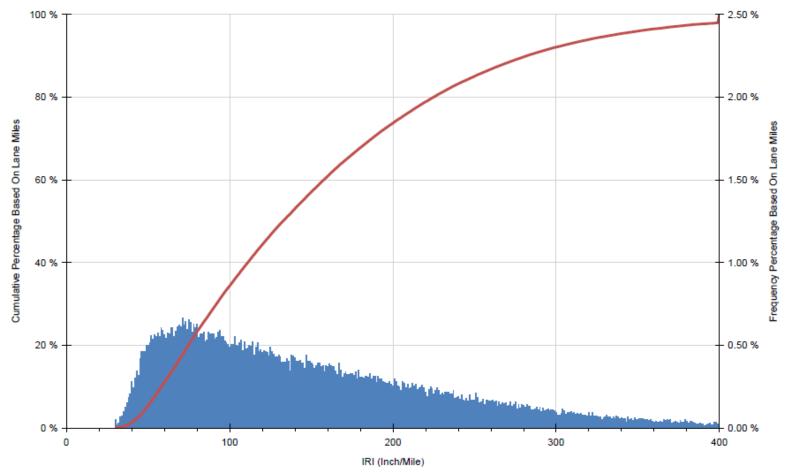
CUMULATIVE AND FREQUENCY DISTRIBUTION - IRI (NON-INTERSTATE NHS)

Stage: Submit Year:

2015

State: 100-ROUNDOFF

Date: 05/11/2017

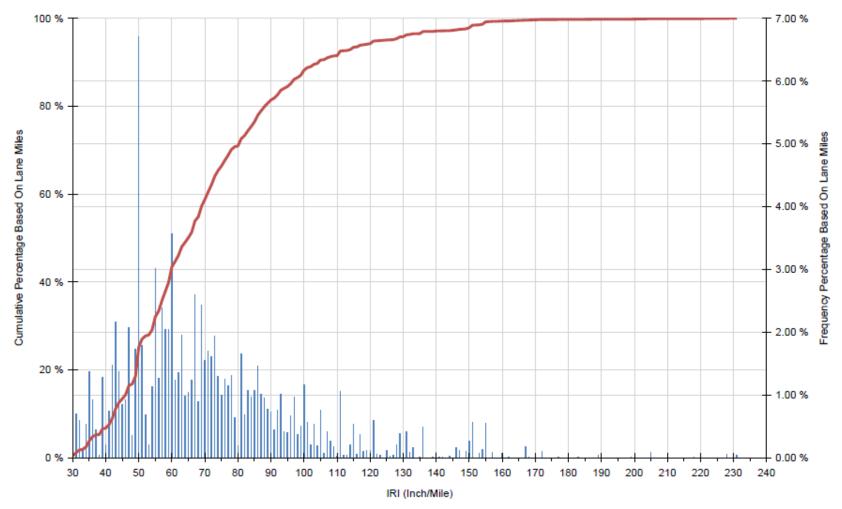


(Frequency of Missing IRI = 0.066%, missing data is included in the cumulative distribution graph.)

CUMULATIVE AND FREQUENCY DISTRIBUTION - IRI (INTERSTATE)

Stage: Review Year: 2016

State: 00-DEFAULT Date: 04/27/2017

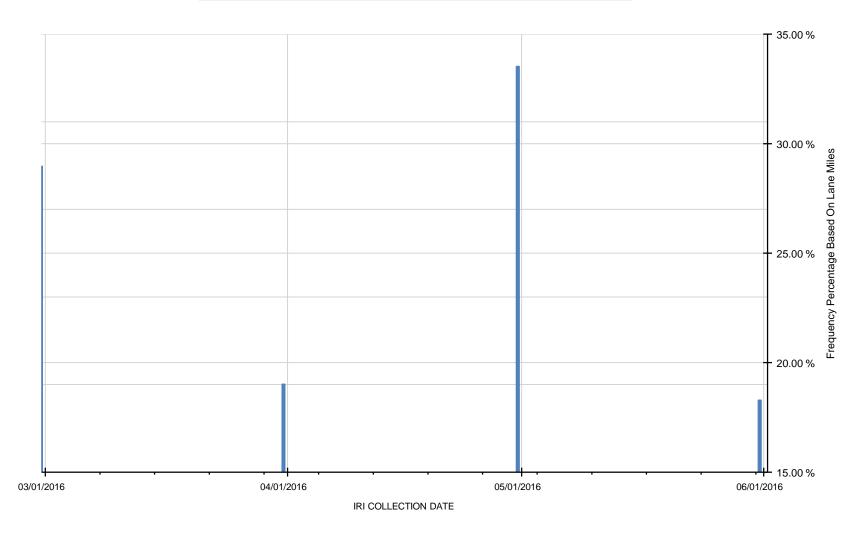


(Frequency of Missing IRI = 0.000%, missing data is included in the cumulative distribution graph.)

CUMULATIVE AND FREQUENCY DISTRIBUTION (INTERSTATE IRI COLLECTION DATES)

Stage: Review 2016 Year: 99 - UTOPIA

State: 05/09/2017 **Date:**



CUMULATIVE AND FREQUENCY DISTRIBUTION (INTERSTATE IRI COLLECTION DATES)

Stage: Review Year: 2016

State: 00-DEFAULT Date: 04/27/2017

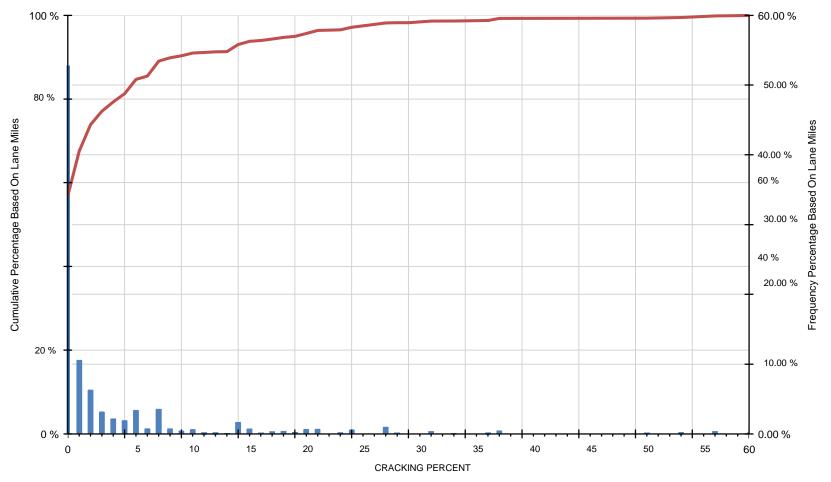


CUMULATIVE AND FREQUENCY DISTRIBUTION - CRACKING PERCENT (INTERSTATE)

Stage: Review 2016
Year: 99 - UTOPIA

05/09/2017

State: Date:



(Frequency of Missing CRACKING_PERCENT = 4.111%, missing data is included in the cumulative distribution graph.)

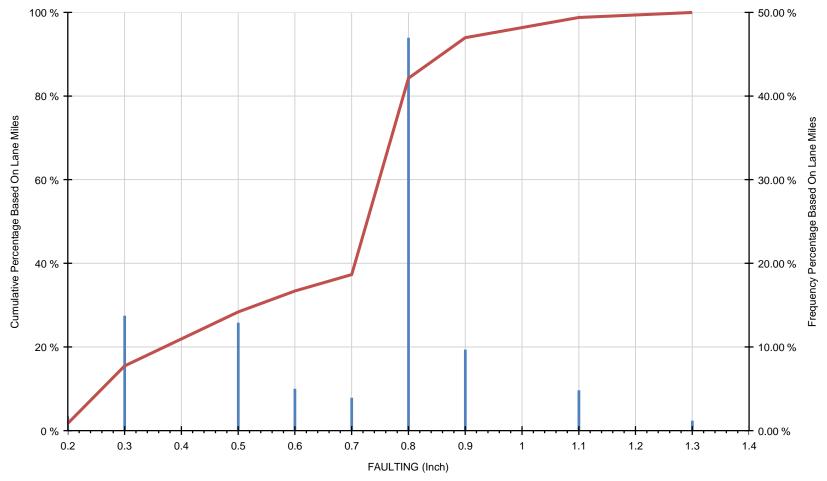
HPMS 8.0.1 CUMULATIVE AND FREQUENCY DISTRIBUTION - FAULTING (INTERSTATE)

 Stage:
 Review 2016

 Year:
 99 - UTOPIA

 State:
 05/09/2017

Date:



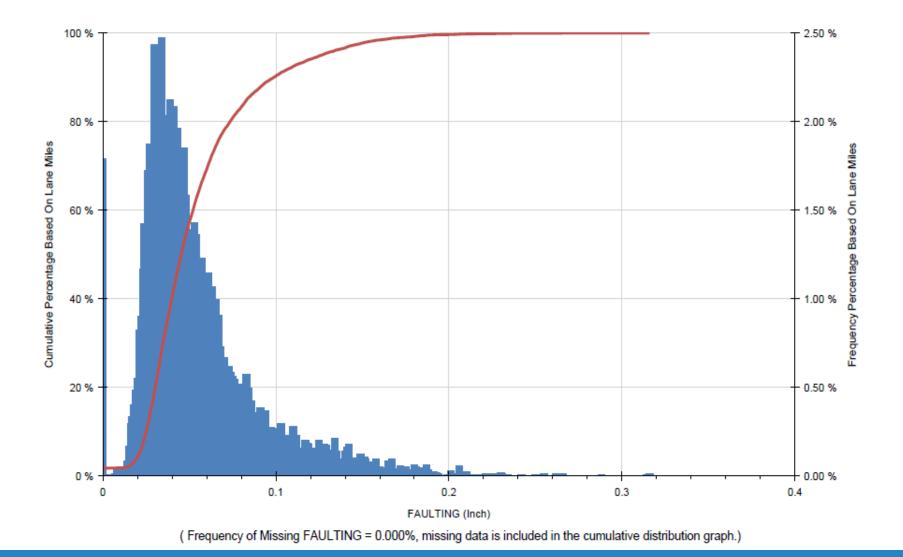
(Frequency of Missing FAULTING = 0.000%, missing data is included in the cumulative distribution graph.)

HPMS 8.0.1 CUMULATIVE AND FREQUENCY DISTRIBUTION - FAULTING (INTERSTATE)

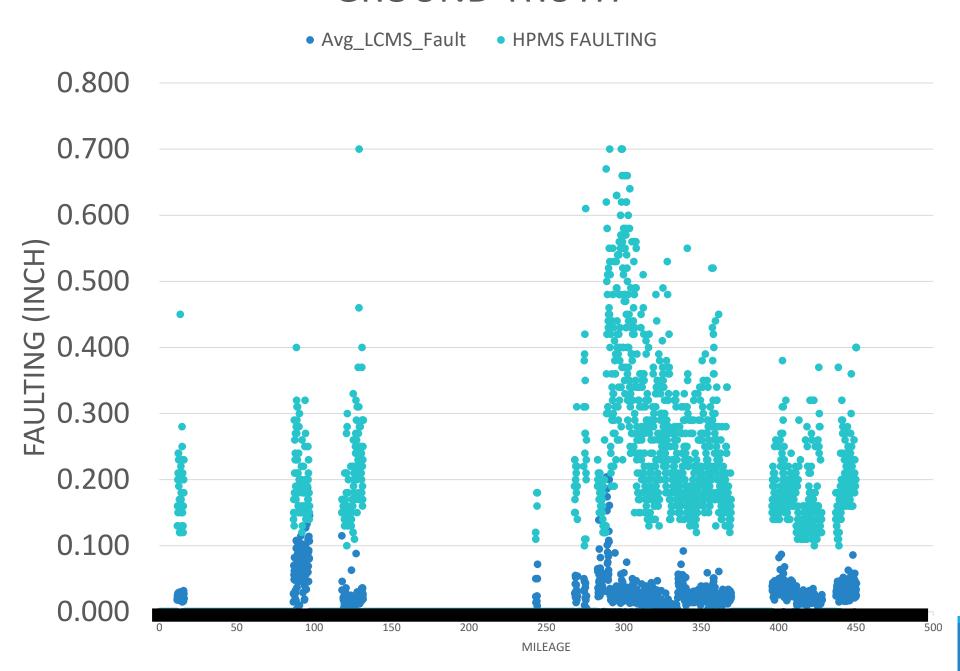
Stage: Submit Year: 2015

State: 98 - BLISS

Date: 05/11/2017



GROUND TRUTH



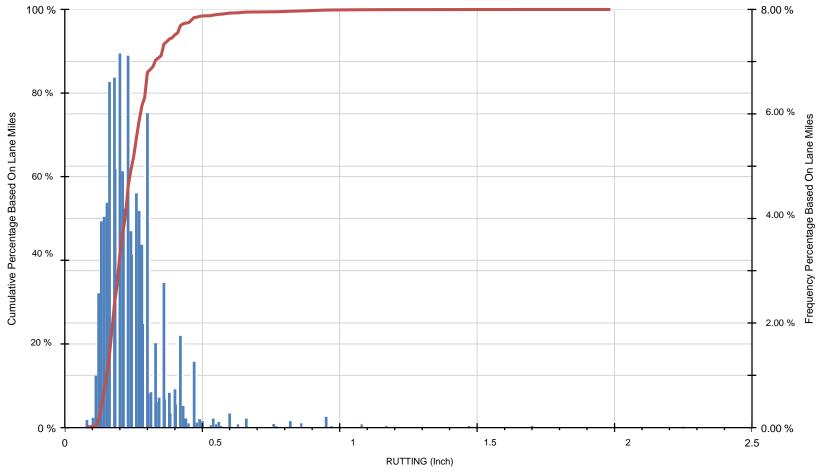
HPMS 8.0.1 CUMULATIVE AND FREQUENCY DISTRIBUTION - RUTTING (INTERSTATE)

 Stage:
 Review 2016

 Year:
 99 - UTOPIA

 State:
 05/09/2017

Date:

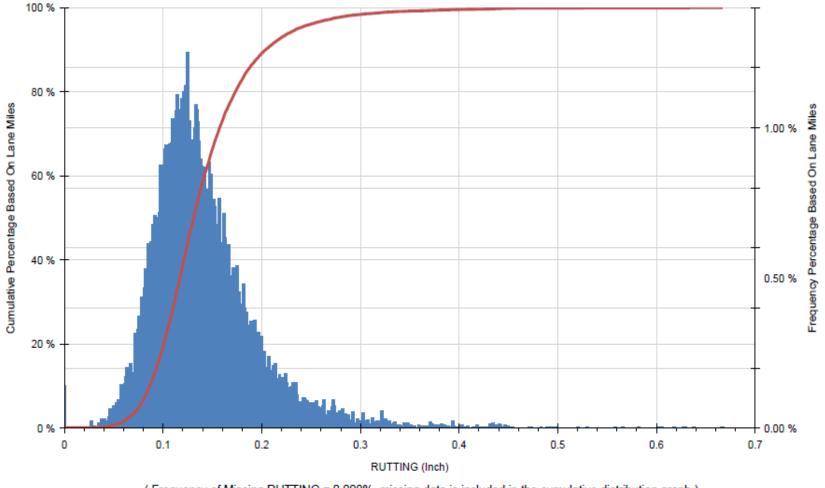


(Frequency of Missing RUTTING = 0.000%, missing data is included in the cumulative distribution graph.)

HPMS 8.0.1 CUMULATIVE AND FREQUENCY DISTRIBUTION - RUTTING (INTERSTATE)

Stage: Submit Year: 2015 State: 98-BLISS

Date: 05/11/2017



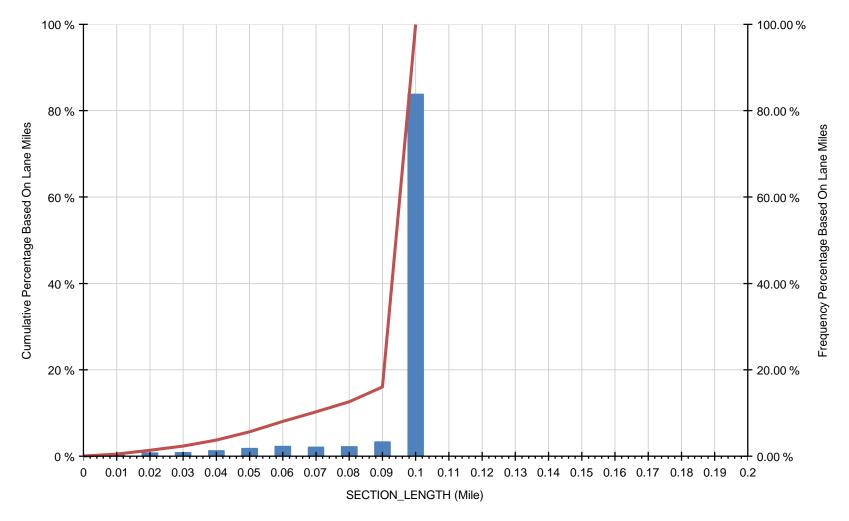
(Frequency of Missing RUTTING = 0.000%, missing data is included in the cumulative distribution graph.)

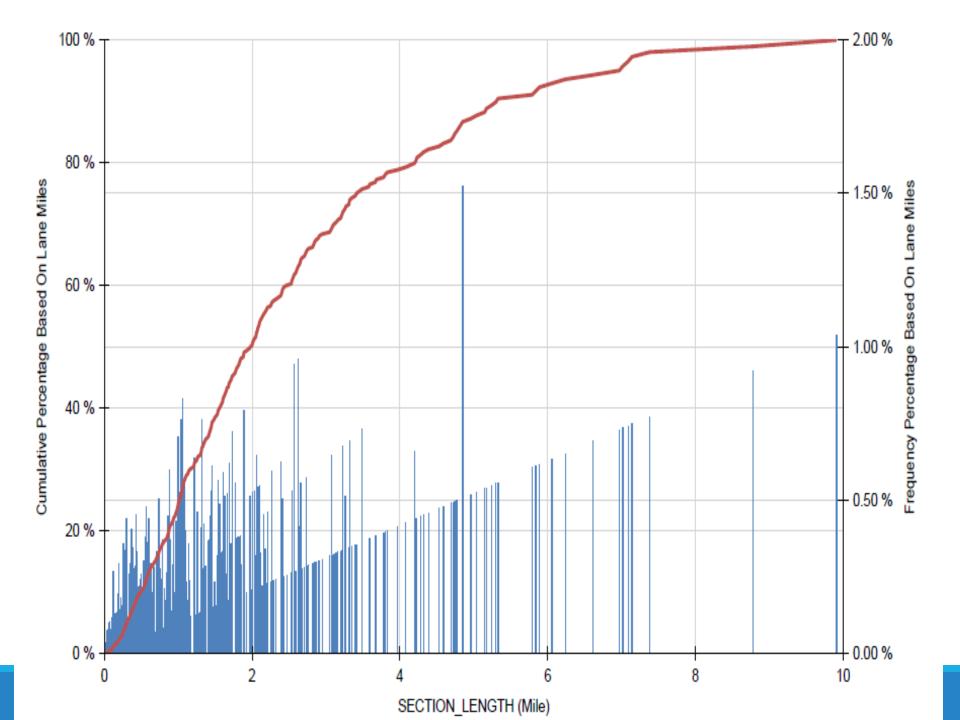
CUMULATIVE AND FREQUENCY DISTRIBUTION - SECTION LENGTHS - CLOSEUP 0.0 TO 0.2 MILE IN LENGTH (INTERSTATE)

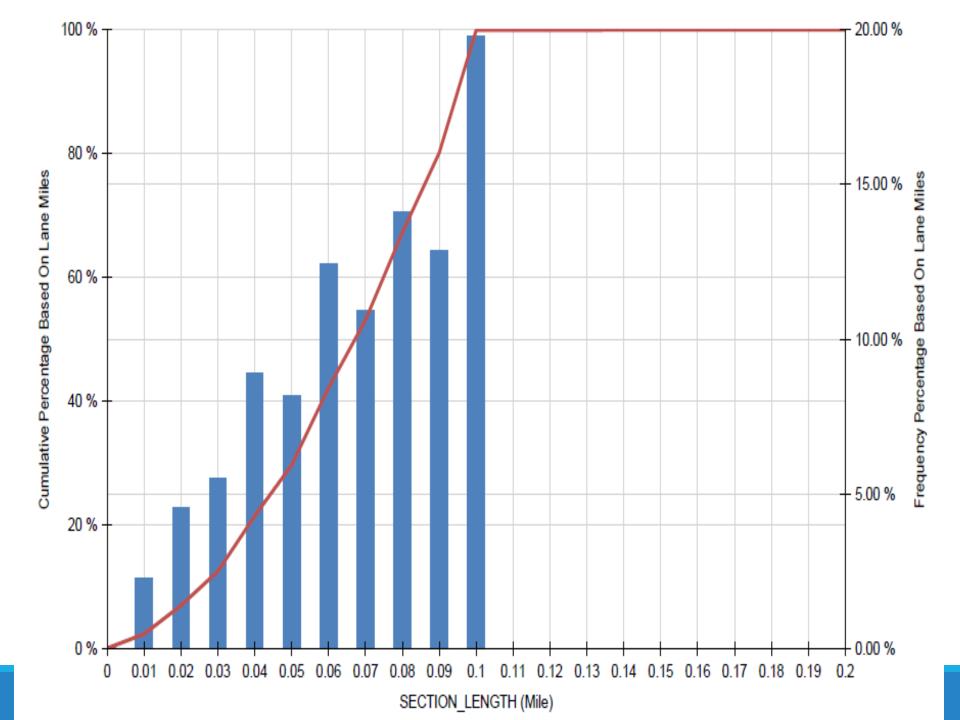
Stage: Review 2016 Year: 99 - UTOPIA

State: 05/09/2017

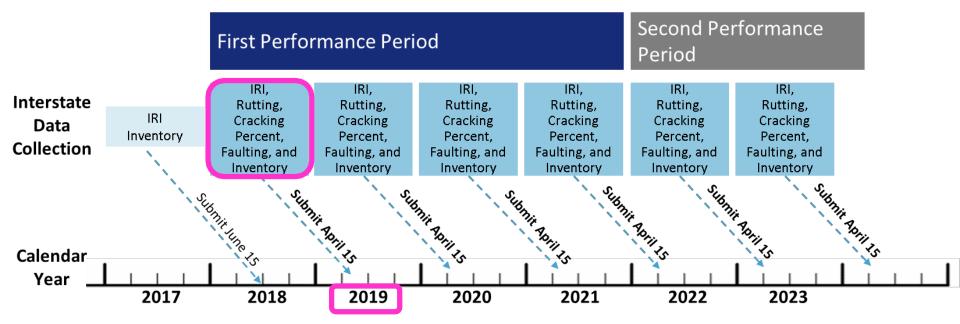
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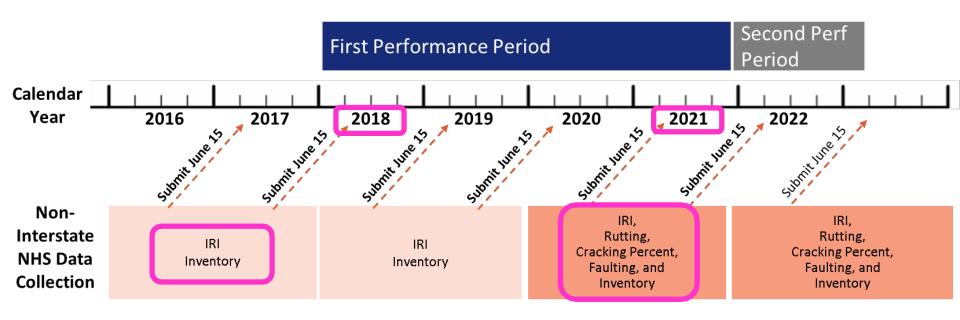




Interstate Data Collection / Reporting Cycles



Non-Interstate NHS Data Collection / Reporting Cycles



HPMS PAVEMENT DATA REPORT CARD GOALS

Improve HPMS Pavement Performance Data quality so the agency has confidence as we use it in performance management.

The debate should be on the quality of the pavement, not the quality of the data.

QUESTIONS