

# Pavement Management 2020 Data



Regions 1 & 2:

Interstates and All State Routes

Regions 3 & 4:

Interstates and State Routes on the NHS

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## Explanation of Terms

### IRI – International Roughness Index

- Measurement of the number of vertical deviations over a section of road.
- Measured in inches/mile
- Perfect is a “0”

### HC IRI – Half-Car IRI

- Half-Car IRI is used by TDOT’s profilers for construction acceptance testing. The standard method that is collected by our consultants is Quarter-Car IRI. Half-Car IRI values tend to be slightly better than Quarter-Car IRI values obtained from the same location.

### PSI – Pavement Smoothness Index

- Measure of the ROUGHNESS of the road on a scale of 0 – 5.
- Perfect is a “5”
- Roughness is defined as: “The deviations of a pavement surface from a true planar surface with characteristic dimensions that affect vehicle dynamics, ride quality, dynamic loads, and drainage; for example, longitudinal profile, transverse profile, and cross slope.”
- Relates to IRI through:  $PSI = 5 * e^{(-0.0055*IRI)}$

### PDI – Pavement Distress Index

- A measurement of the roadway DISTRESS on a scale from 0 – 5.
- Perfect is a “5”
- Distresses that are evaluated include the following: Fatigue, Rutting, Longitudinal Cracks in the Wheel Path, Patching, Block Cracking, Raveling, Transverse Cracks, & Longitudinal Cracks (Non-Wheel Path).
- Each individual distress mentioned above receives a DEDUCT VALUE based on the severity & number of distresses on a given stretch of road surface.
- All of the D.V.s are given a weight and subtracted from 5.

## PQI – Pavement Quality Index

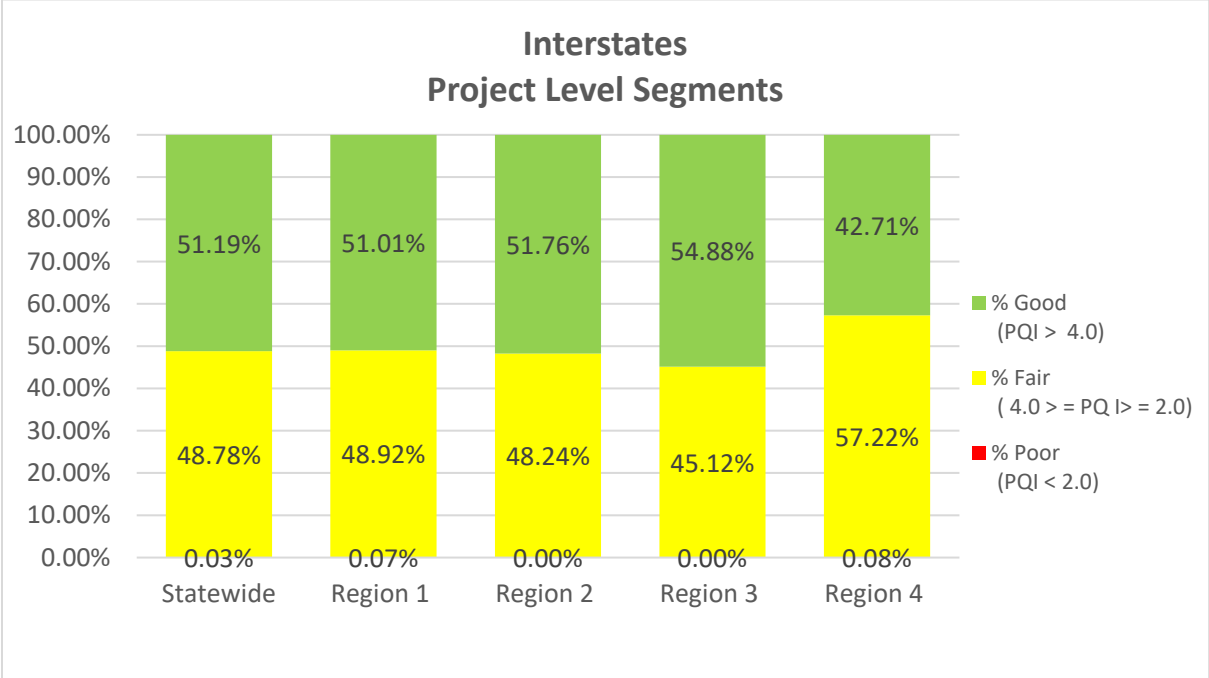
- Overall Index of the roadway on a scale from 0 – 5.
- Perfect is a “5”
- $PQI = PDI^{0.7} * PSI^{0.3}$
- PDI encompasses the largest portion of this index because Pavement Distresses indicate current problems and future deterioration of the roadway surface.

## Additional Notes for Consideration

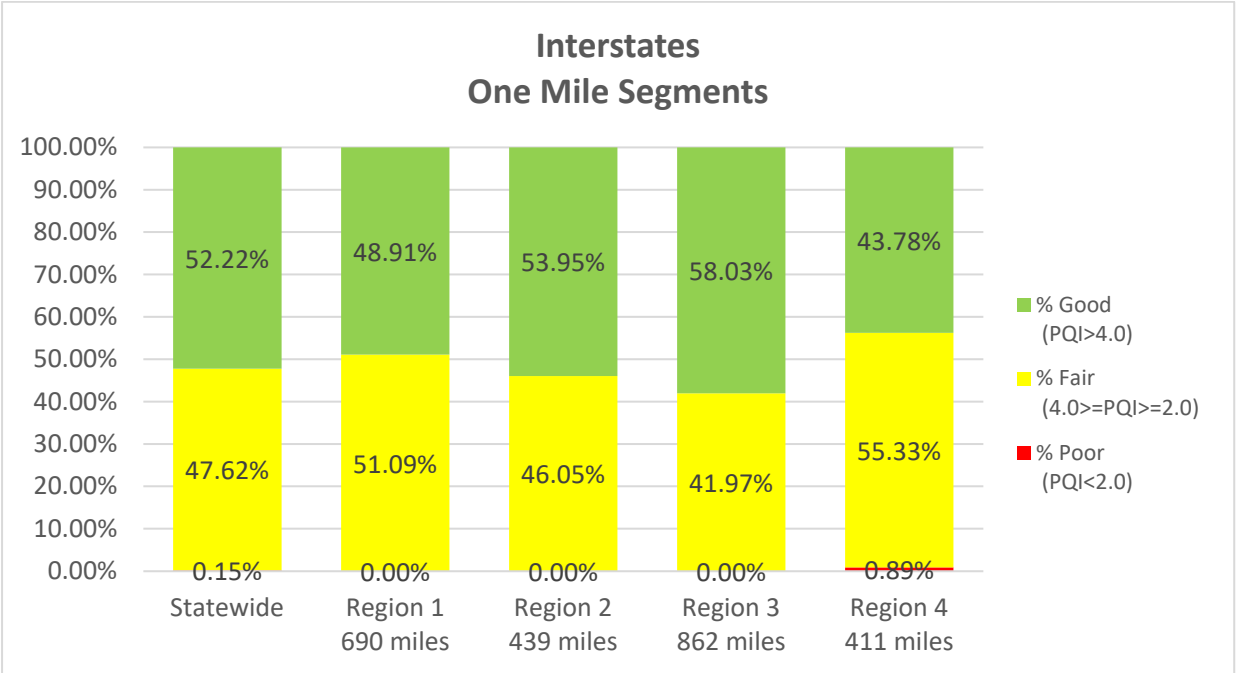
- Project length segments are created by breaking the roadway network into various-length “segments”, creating a new segment break at:
  - County lines
  - Changes in NHS/Non-NHS designation
  - Termini of known historical projects
  - Changes in pavement type (Concrete/Asphalt)
- Project length data and percentages are summarized by lane miles. One-mile segment data is processed by centerline miles.
- More information on TDOT’s definition of State of Good Repair including targets and calculation of good, fair and poor can be found in [TDOT’s Transportation Asset Management Plan \(TAMP\)](#).
- Non-NHS state route condition is collected biennially, or every other year. Region 1 and 2 non-NHS state routes are collected in even years and Regions 3 and 4 are collected in odd years. Interstate and NHS routes are collected every year. In an effort to provide a comprehensive report, full extent data from the previous years’ report is provided for off-cycle regions.

# 1. Statewide Pavement Conditions

## 1.1 Interstates

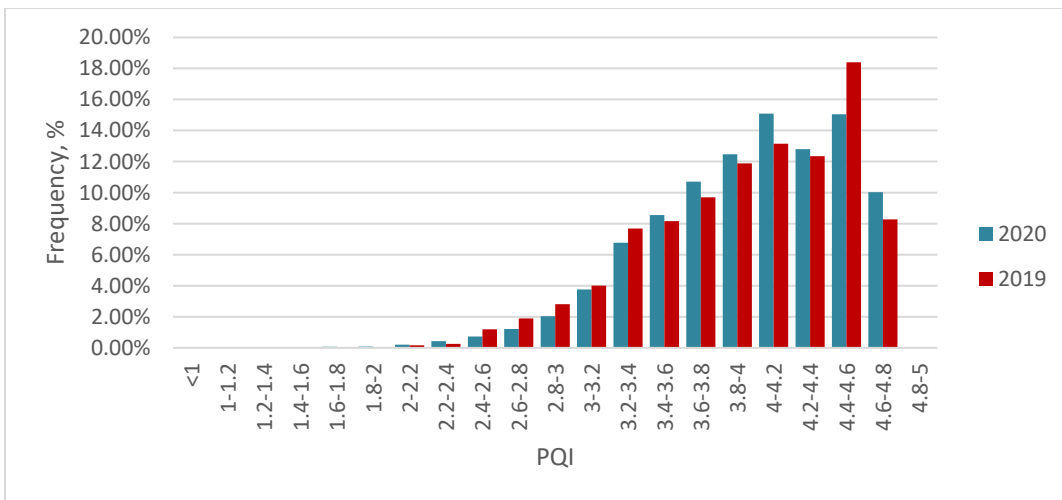
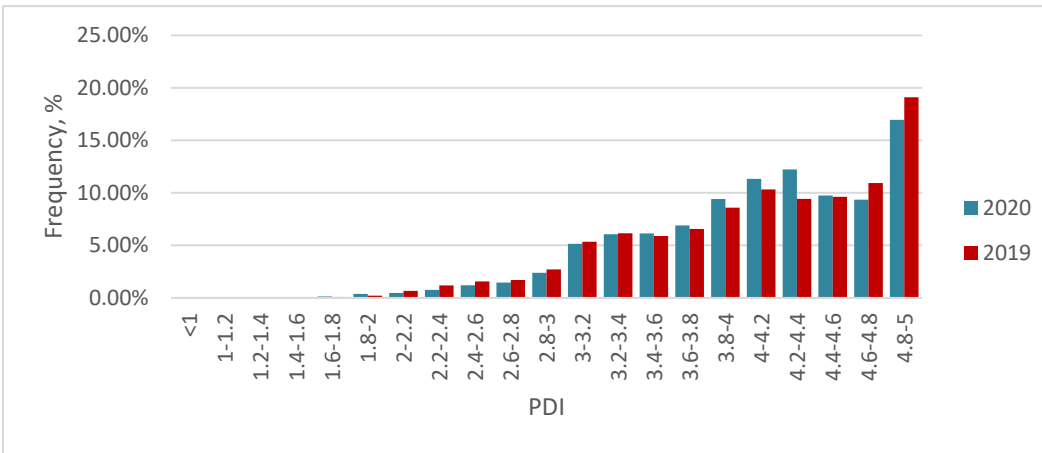
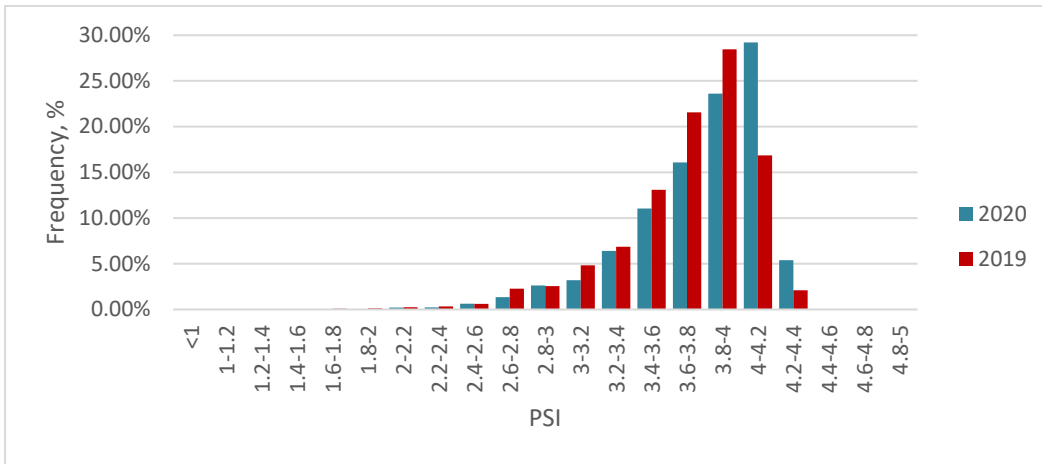


**(Average PQI=3.962 for 5,645 lane miles)**

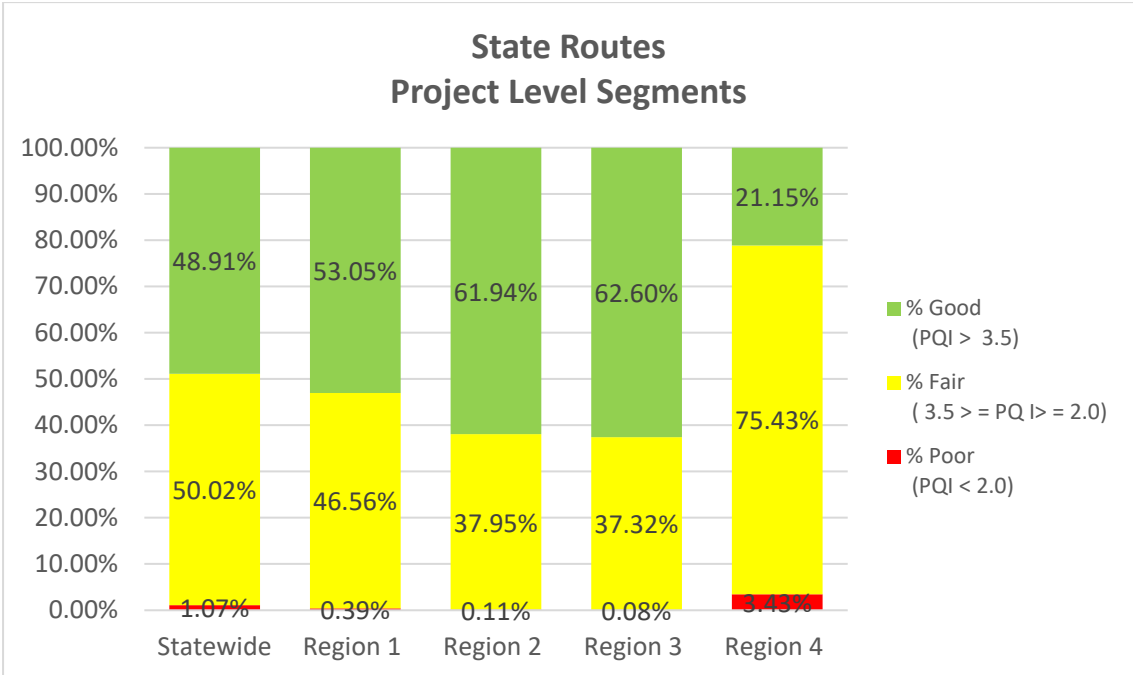


**(Average PQI=3.964 for 2,403 centerline miles)**

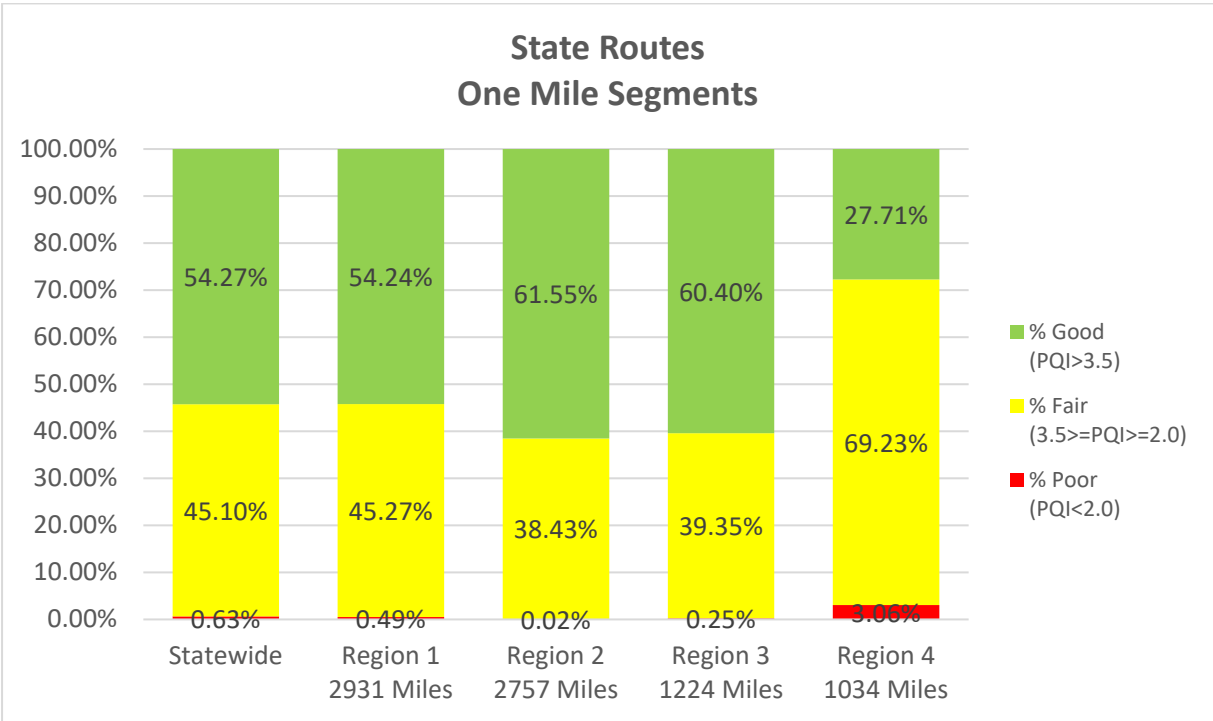
# Distribution of Interstate Pavement Condition Indices - (One Mile Segments)



# 1.2 State Routes

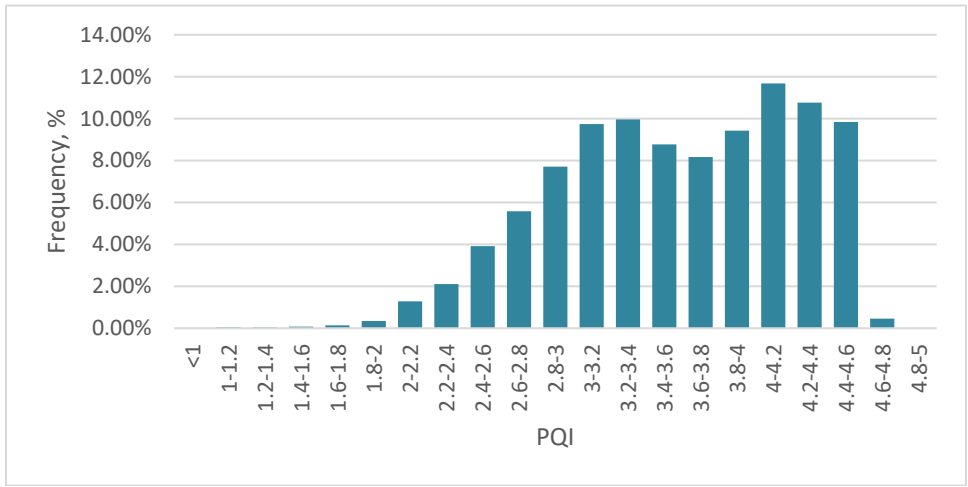
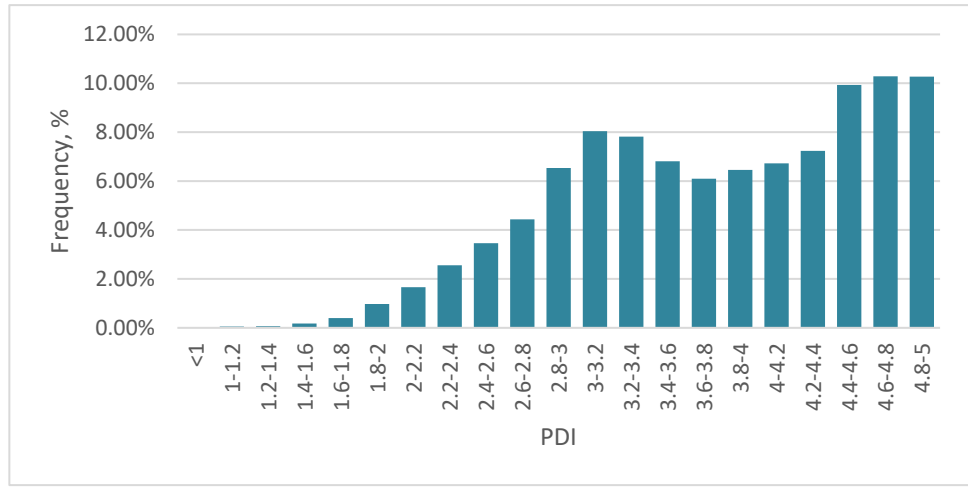
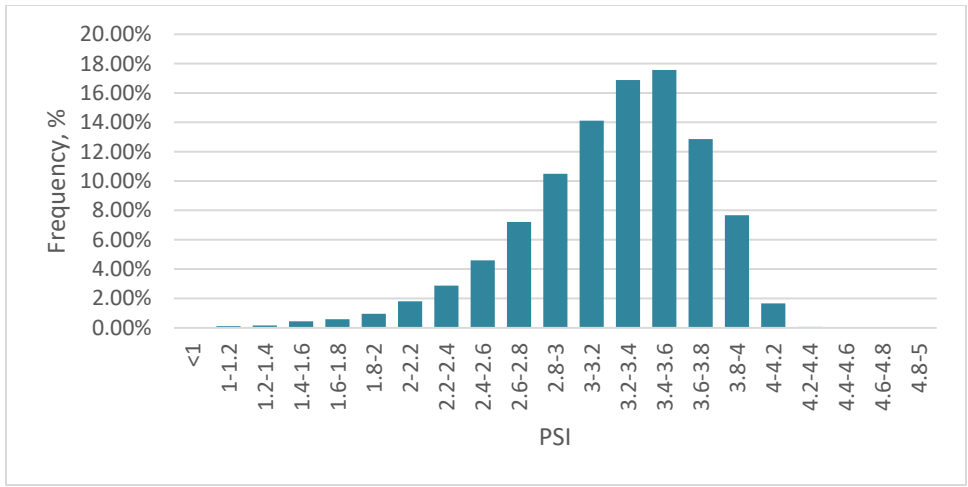


**(Average PQI=3.477 for 31,469 lane miles)**



**(Average PQI=3.564 for 7,947 centerline miles)**

# Distribution of State Route Pavement Condition Indices (One Mile Segments)



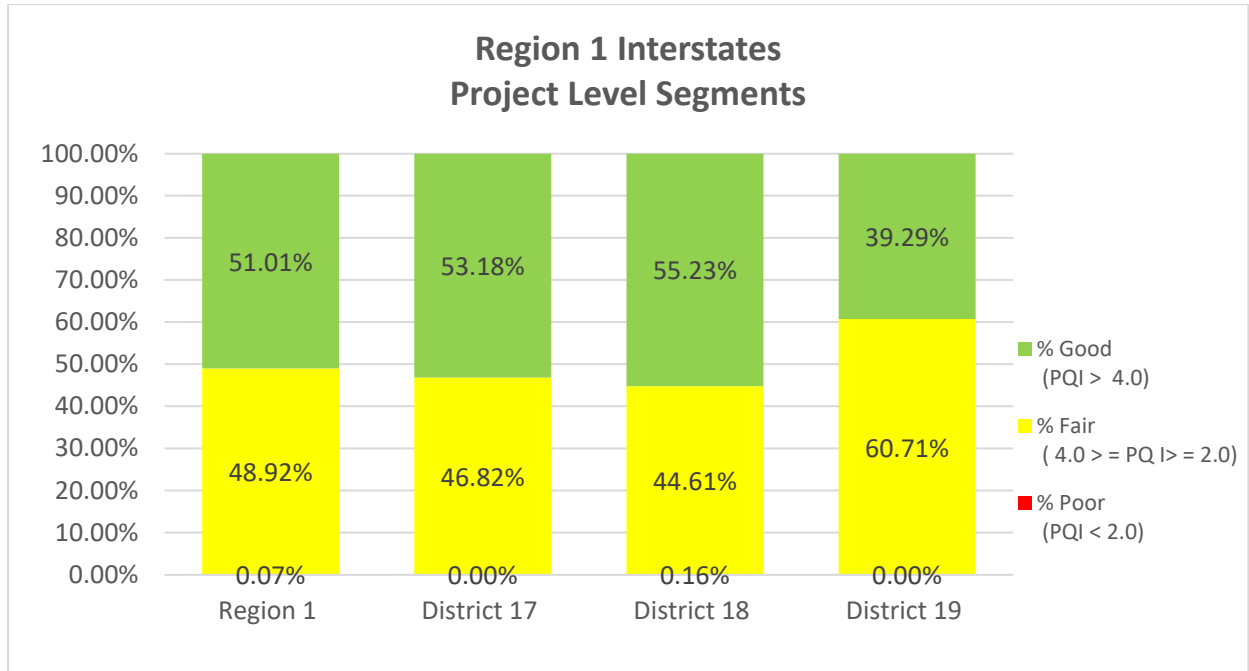


## 2. Region 1 Pavement Conditions *(Average of One Mile Segments)*

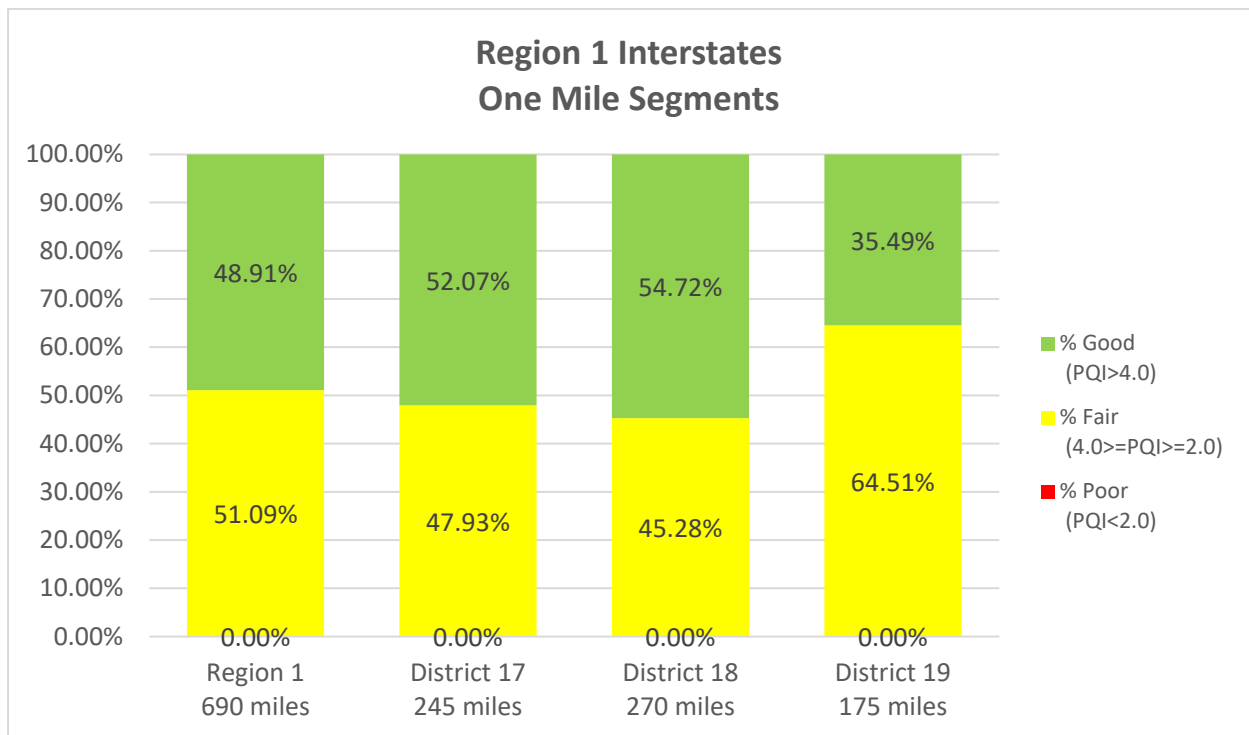
2020 Region 1 by District		Interstates				State Routes		
District	County	Average PSI	Average PDI	Average PQI	IRI<94 in./mi.*	Average PSI	Average PDI	Average PQI
17	10 CARTER	3.615	4.419	4.160	85.13%	3.323	3.845	3.671
17	30 GREENE	4.013	4.265	4.182	99.07%	3.268	4.025	3.767
17	32 HAMBLEN	4.070	4.030	4.041	98.99%	3.071	3.376	3.241
17	34 HANCOCK					2.986	3.704	3.450
17	37 HAWKINS					3.105	3.747	3.520
17	46 JOHNSON					3.196	3.700	3.520
17	82 SULLIVAN	3.837	3.738	3.761	97.81%	3.137	3.641	3.458
17	86 UNICOI	3.615	3.715	3.678	88.48%	3.175	3.829	3.608
17	90 WASHINGTON	3.961	4.756	4.500	97.12%	3.289	3.902	3.687
<b>Average</b>		<b>3.868</b>	<b>4.068</b>	<b>4.000</b>	<b>95.81%</b>	<b>3.186</b>	<b>3.774</b>	<b>3.569</b>
18	1 ANDERSON	3.895	4.316	4.177	94.22%	3.011	3.509	3.318
18	15 COCKE	3.777	4.027	3.938	89.88%	3.089	4.082	3.742
18	29 GRAINGER					3.318	3.706	3.569
18	45 JEFFERSON	3.873	4.152	4.058	94.15%	3.291	3.869	3.670
18	47 KNOX	3.679	3.966	3.865	85.51%	3.127	3.804	3.572
18	78 SEVIER	3.910	3.919	3.911	95.17%	3.183	4.306	3.924
18	87 UNION					2.828	3.335	3.161
<b>Average</b>		<b>3.762</b>	<b>4.044</b>	<b>3.946</b>	<b>89.11%</b>	<b>3.136</b>	<b>3.851</b>	<b>3.603</b>
19	5 BLOUNT	3.079	2.741	2.831	56.67%	3.033	3.762	3.508
19	7 CAMPBELL	3.579	3.580	3.566	82.13%	3.201	3.712	3.527
19	13 CLAIBORNE					3.170	3.125	3.123
19	53 LOUDON	3.712	3.564	3.595	89.55%	3.261	4.029	3.770
19	62 MONROE	4.080	4.953	4.673	100.00%	3.114	4.055	3.735
19	65 MORGAN					3.262	3.732	3.571
19	73 ROANE	3.823	3.955	3.905	93.47%	3.367	3.729	3.604
19	76 SCOTT					3.274	3.305	3.276
<b>Average</b>		<b>3.704</b>	<b>3.755</b>	<b>3.726</b>	<b>87.82%</b>	<b>3.194</b>	<b>3.723</b>	<b>3.537</b>
<b>Region 1</b>				<b>3.910</b>	<b>91.17%</b>			<b>3.569</b>

Note: Percentage of IRI<=94 in./mi. is calculated based on unit length of 0.1 mile.

## 2.1 Region 1 Interstates

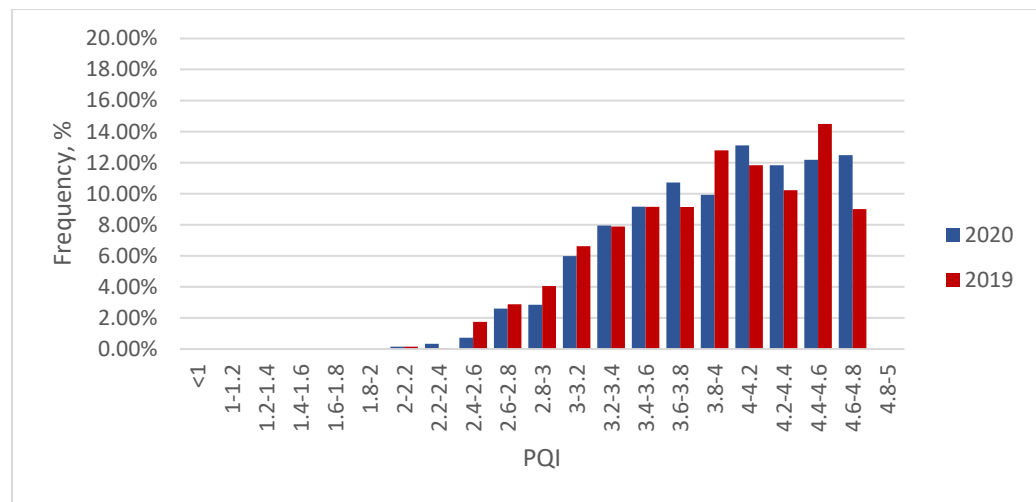
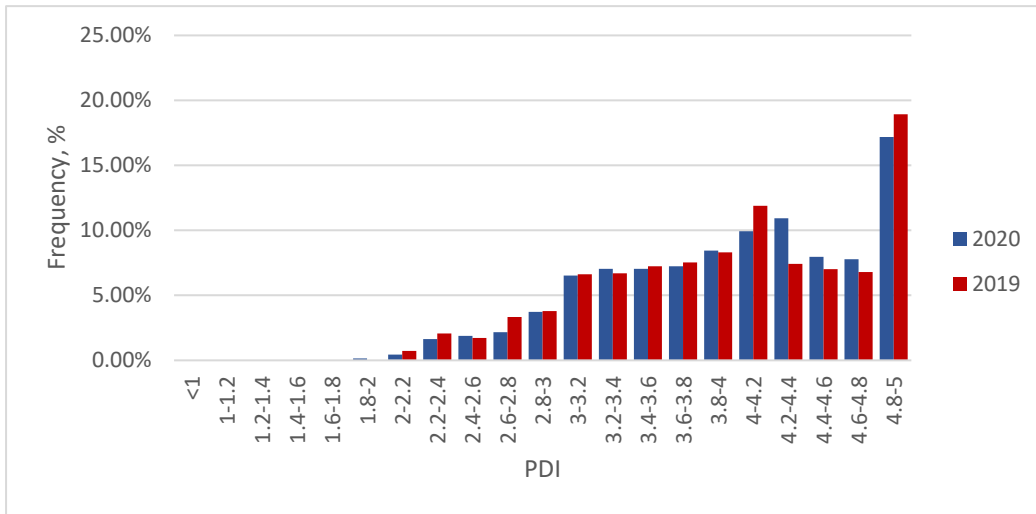
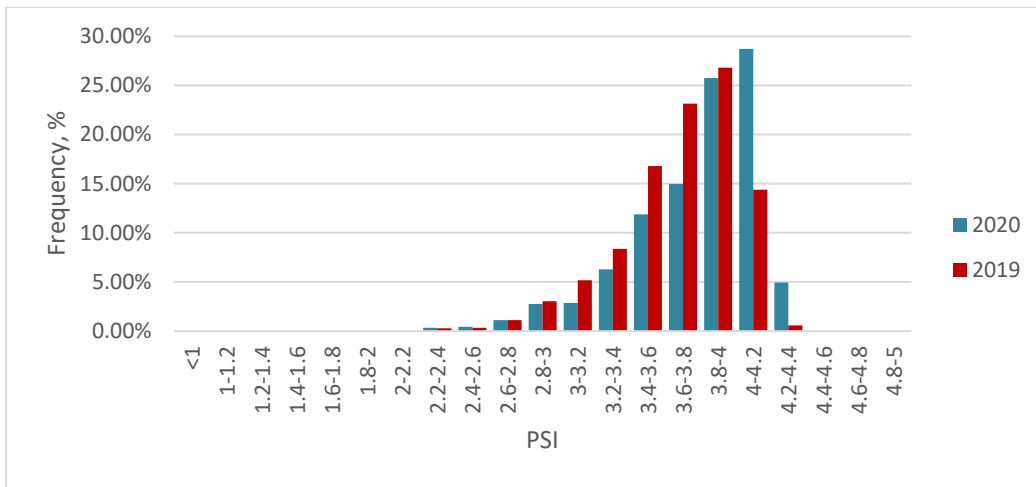


**(Average PQI=3.928 for 1,559 lane miles)**

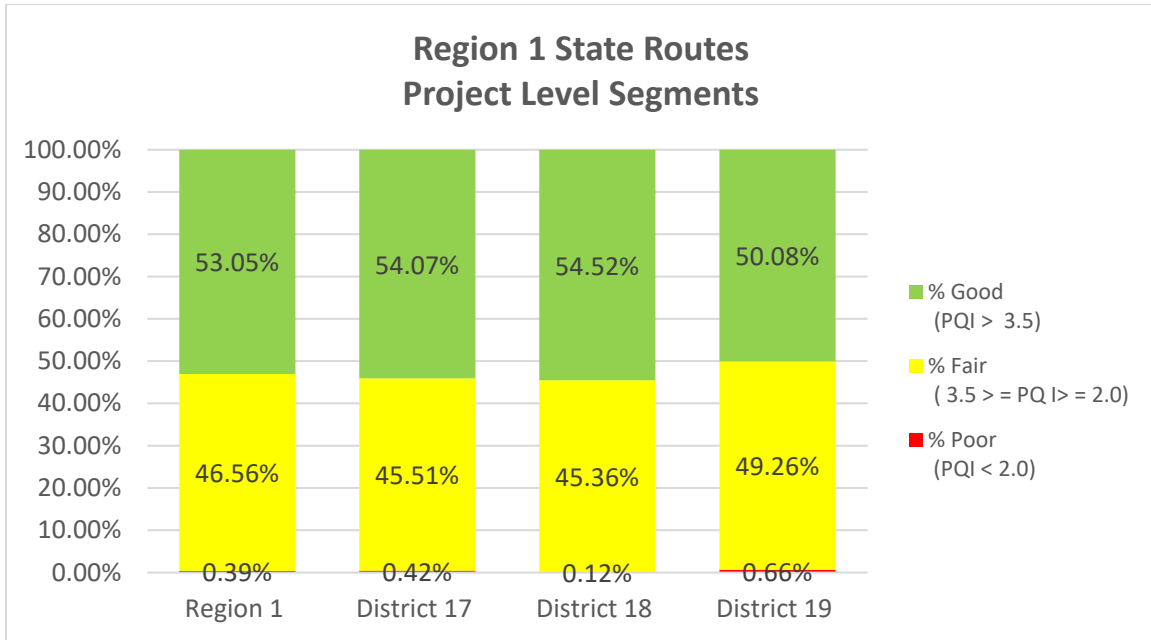


**(Average PQI= 3.910 for 690 centerline miles)**

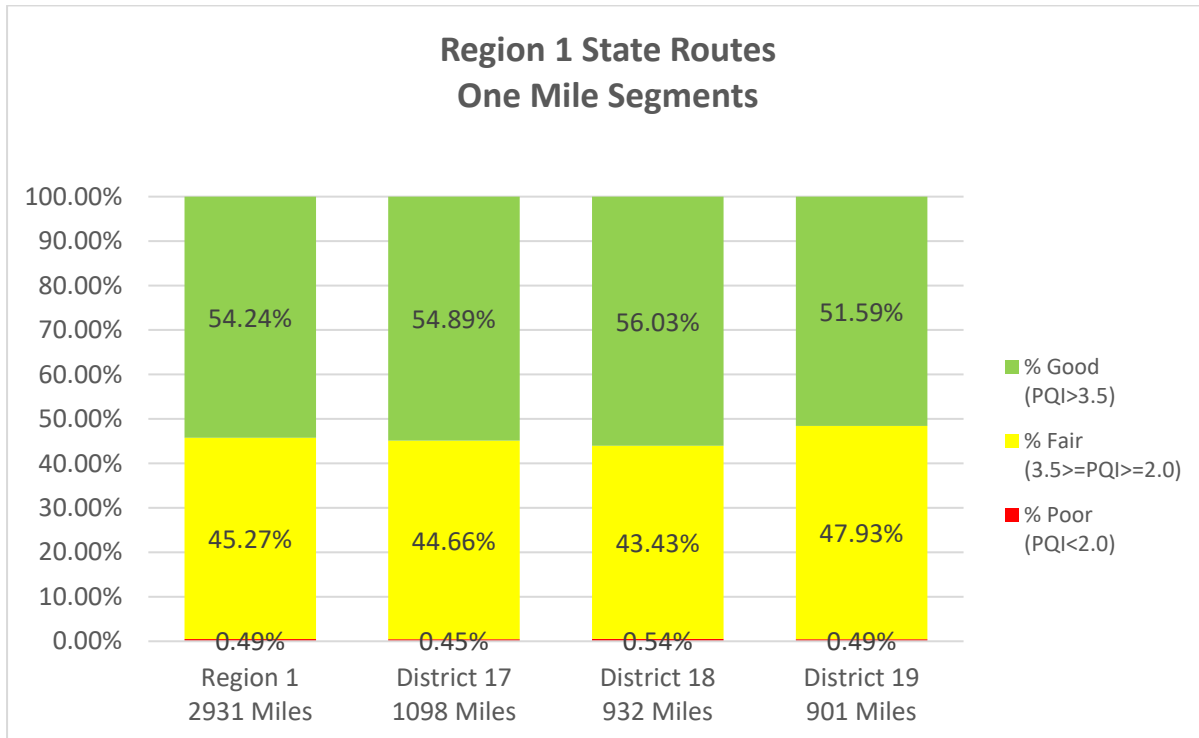
## Distribution of Pavement Condition Indices- Region 1 Interstates (One Mile Segments)



## 2.2 Region 1 State Routes

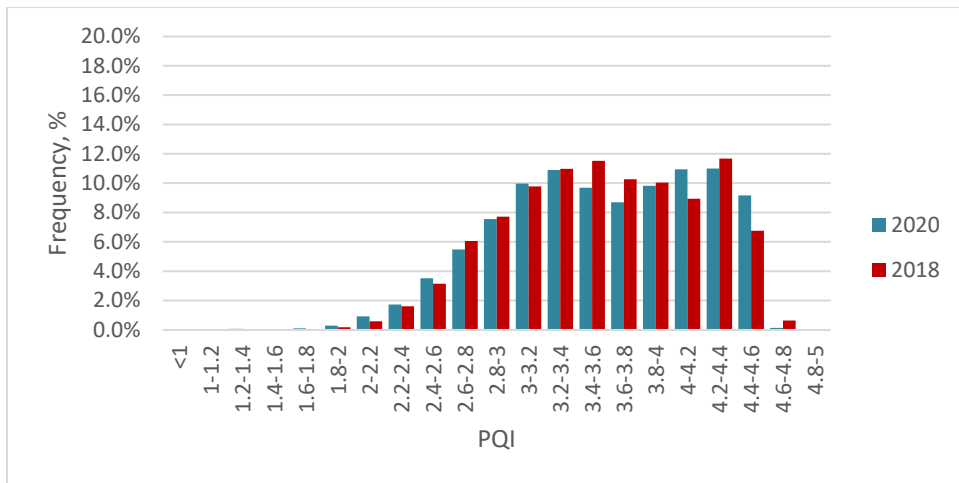
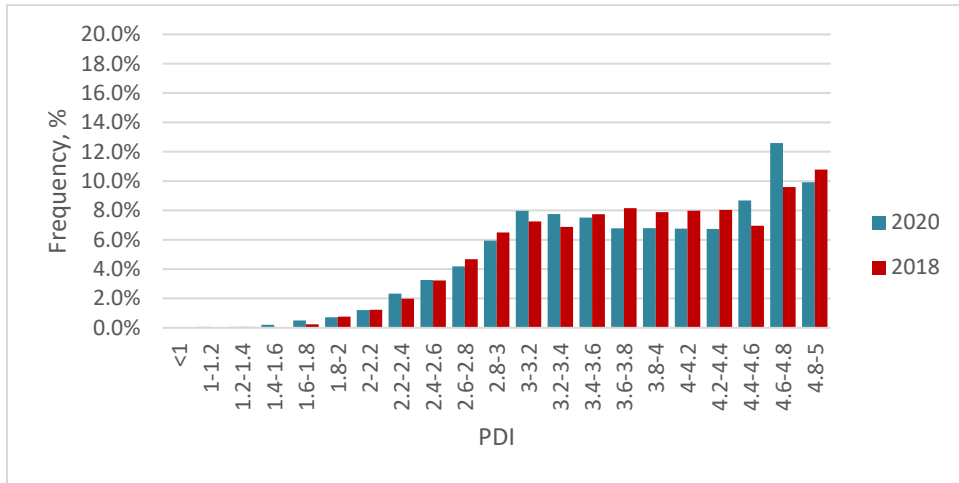
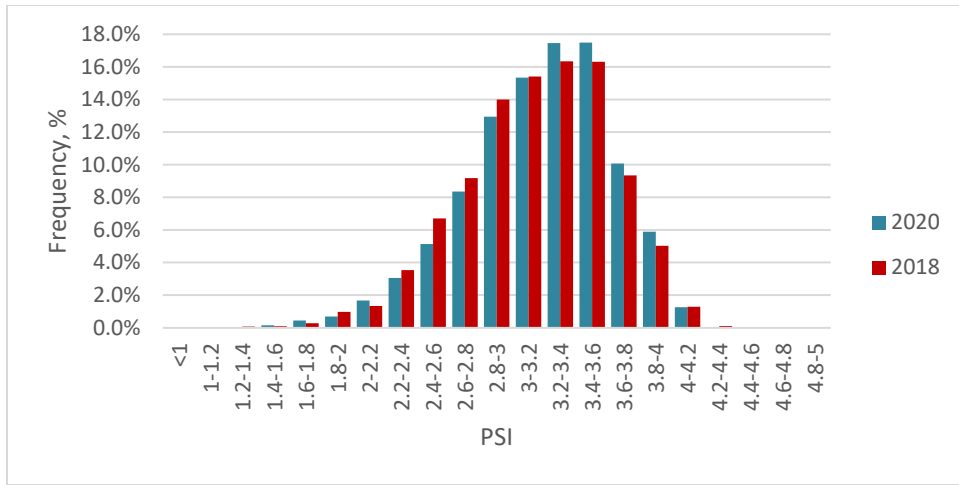


**(Average PQI=3.575 for 7,427 lane miles)**



**(Average PQI=3.569 for 2,931 centerline miles)**

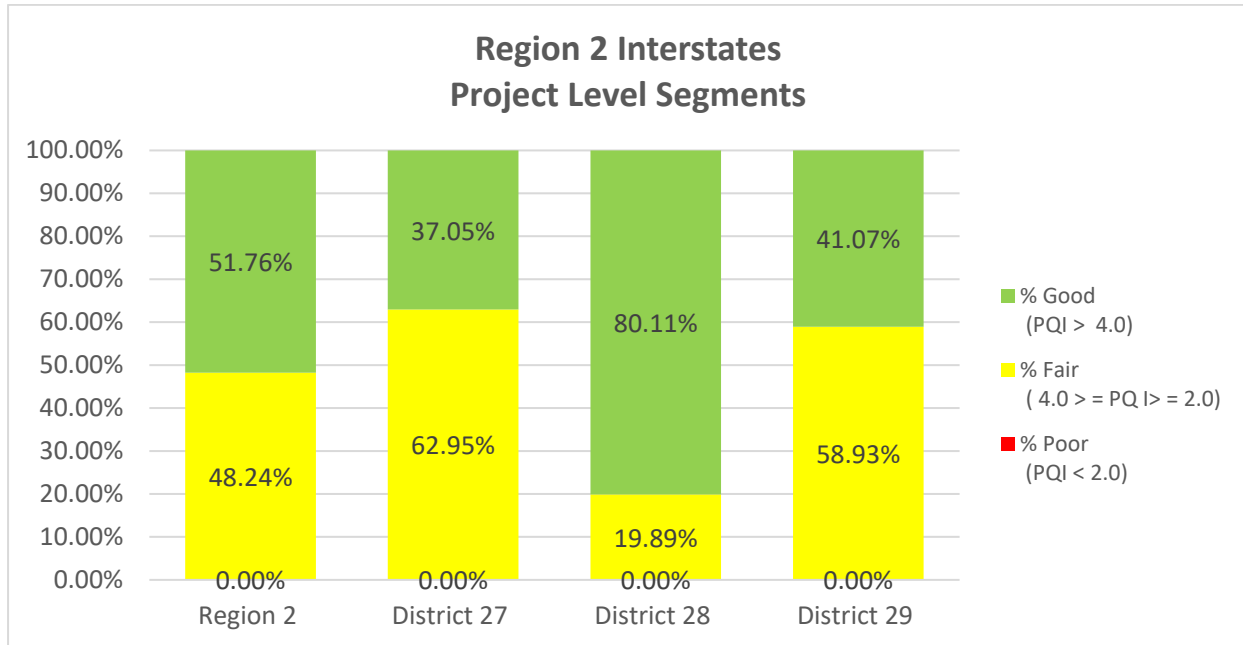
## Distribution of Pavement Condition Indices- Region 1 State Routes (One Mile Segments)



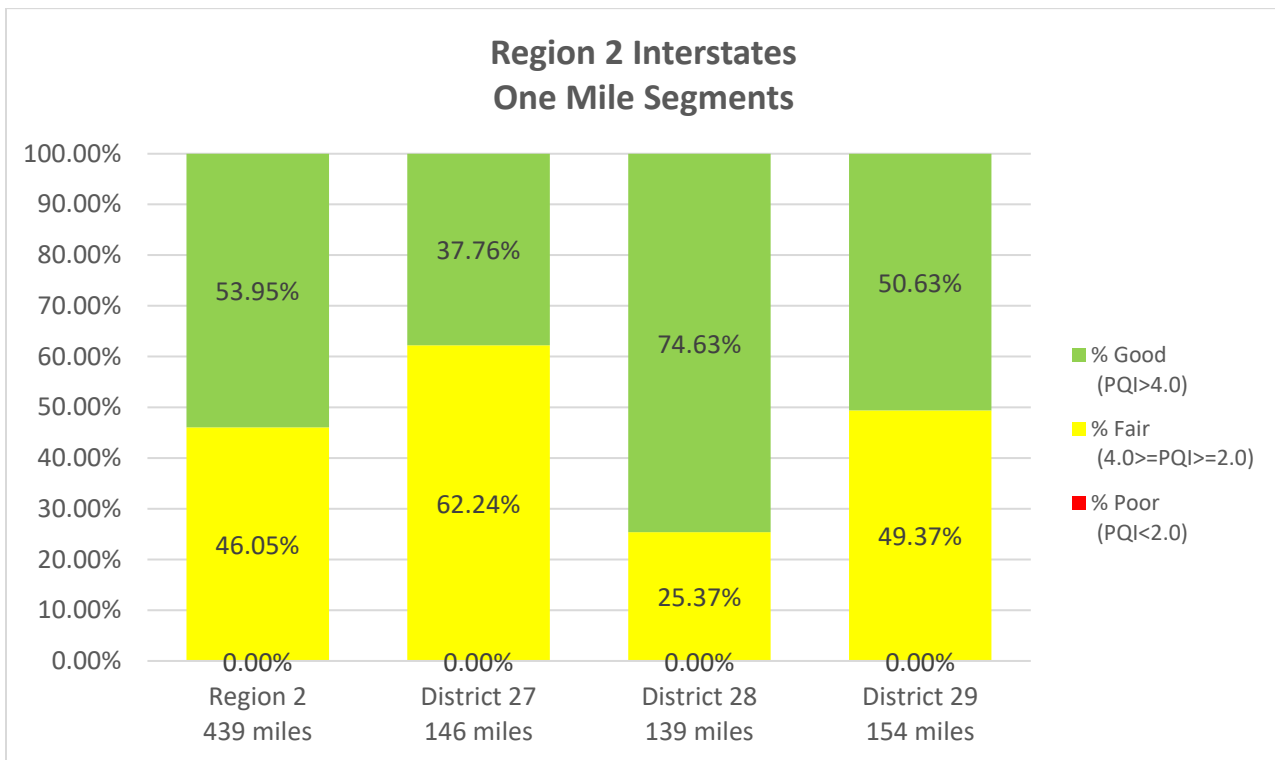
### 3. Region 2 Pavement Conditions (Average of One Mile Segments)

2020 Region 2 by District		Interstates				State Routes		
District	County	Average PSI	Average PDI	Average PQI	IRI<94 In./mi.	Average PSI	Average PDI	Average PQI
27	14 CLAY					3.336	3.705	3.582
27	18 CUMBERLAND	4.061	3.648	3.759	98.34%	3.436	3.762	3.647
27	21 DEKALB					3.271	3.990	3.747
27	25 FENTRESS					3.227	3.913	3.674
27	44 JACKSON					3.251	4.208	3.890
27	67 OVERTON					3.331	4.075	3.818
27	69 PICKETT					3.205	4.028	3.753
27	71 PUTNAM	4.064	3.783	3.859	98.65%	3.211	3.892	3.661
27	93 WHITE					3.417	4.029	3.823
<b>Average</b>		<b>4.062</b>	<b>3.717</b>	<b>3.810</b>	<b>98.50%</b>	<b>3.267</b>	<b>3.886</b>	<b>3.674</b>
28	4 BLEDSOE					3.351	4.107	3.855
28	8 CANNON					3.348	3.840	3.671
28	16 COFFEE	4.119	4.182	4.157	98.51%	3.561	3.734	3.664
28	26 FRANKLIN					3.344	3.833	3.668
28	31 GRUNDY	3.816	4.337	4.168	95.90%	3.360	4.075	3.834
28	58 MARION	4.015	4.414	4.285	97.82%	3.113	3.921	3.645
28	77 SEQUATCHIE					3.392	4.030	3.811
28	88 VAN BUREN					3.273	3.852	3.654
28	89 WARREN					3.290	3.575	3.476
<b>Average</b>		<b>4.039</b>	<b>4.305</b>	<b>3.810</b>	<b>97.92%</b>	<b>3.324</b>	<b>3.851</b>	<b>3.670</b>
29	6 BRADLEY	4.084	4.157	4.132	99.74%	3.283	4.057	3.800
29	33 HAMILTON	3.322	3.922	3.711	73.18%	3.025	3.894	3.594
29	54 MCMINN	4.040	4.673	4.468	99.80%	3.163	3.714	3.515
29	61 MEIGS					3.113	3.434	3.316
29	70 POLK					3.237	4.043	3.769
29	72 RHEA					3.147	3.701	3.512
<b>Average</b>		<b>3.747</b>	<b>4.225</b>	<b>4.063</b>	<b>88.50%</b>	<b>3.143</b>	<b>3.835</b>	<b>3.597</b>
<b>Region 2</b>				<b>4.027</b>	<b>94.81%</b>			<b>3.674</b>

### 3.1 Region 2 Interstates

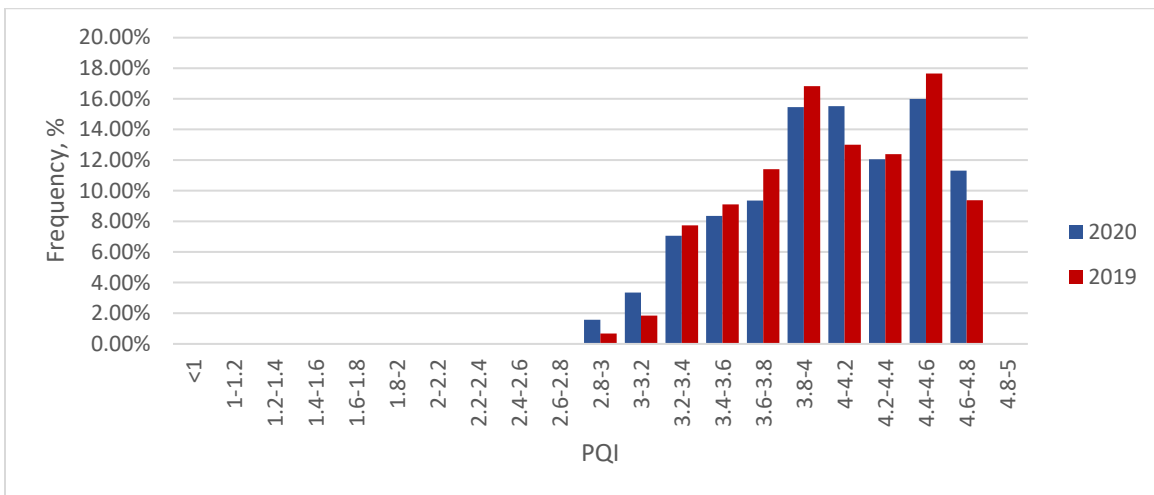
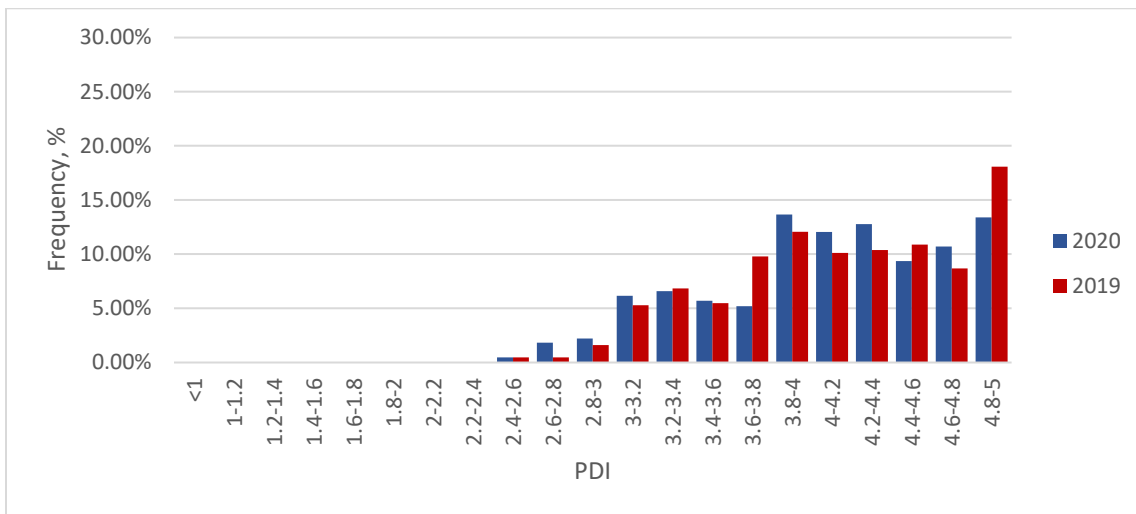
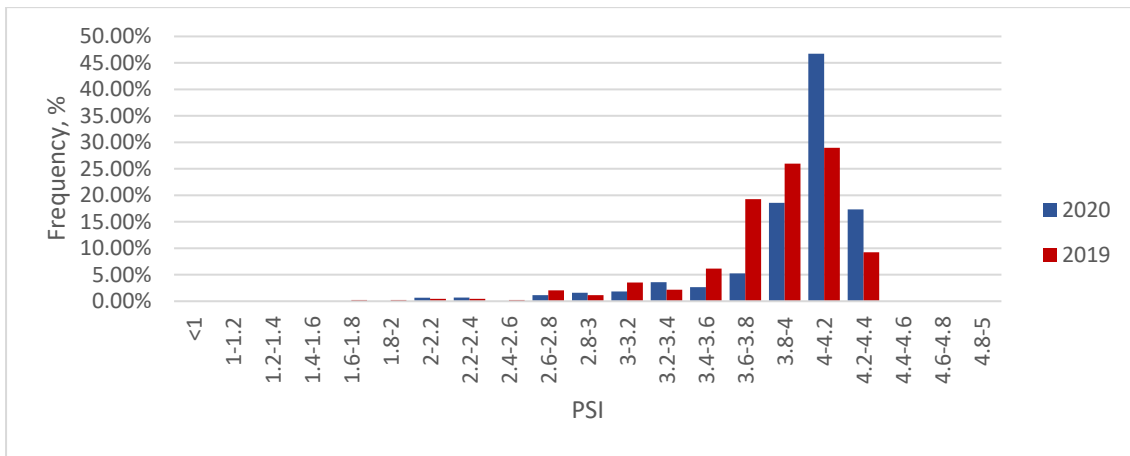


**(Average PQI=4.012 for 960 lane miles)**



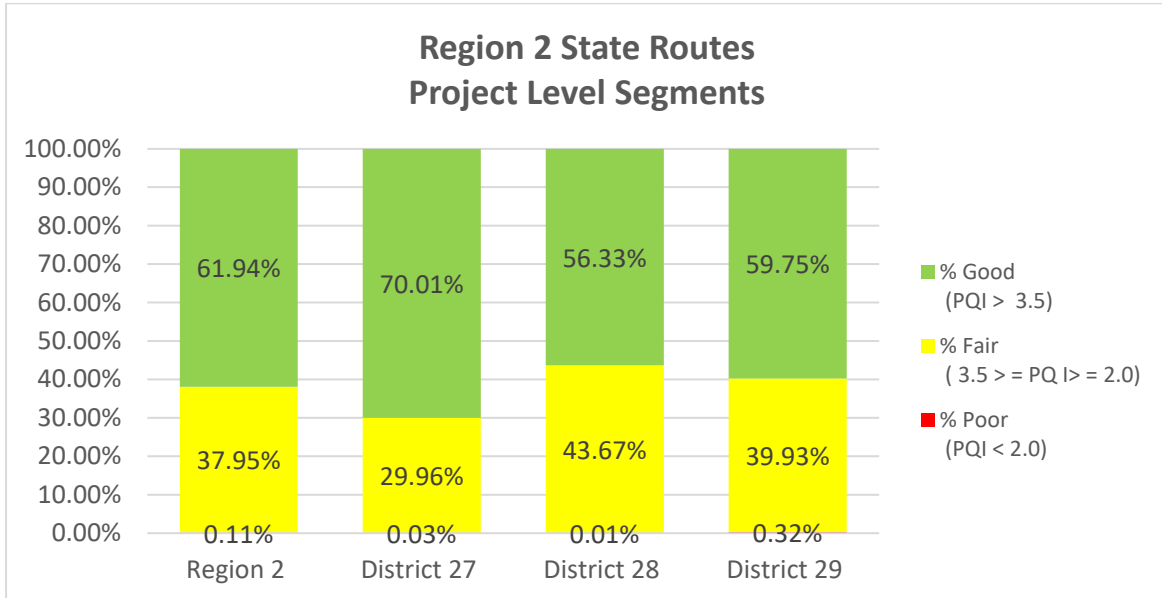
**(Average PQI=4.027 for 439 centerline miles)**

## Distribution of Pavement Condition Indices- Region 2 Interstates (One Mile Segments)

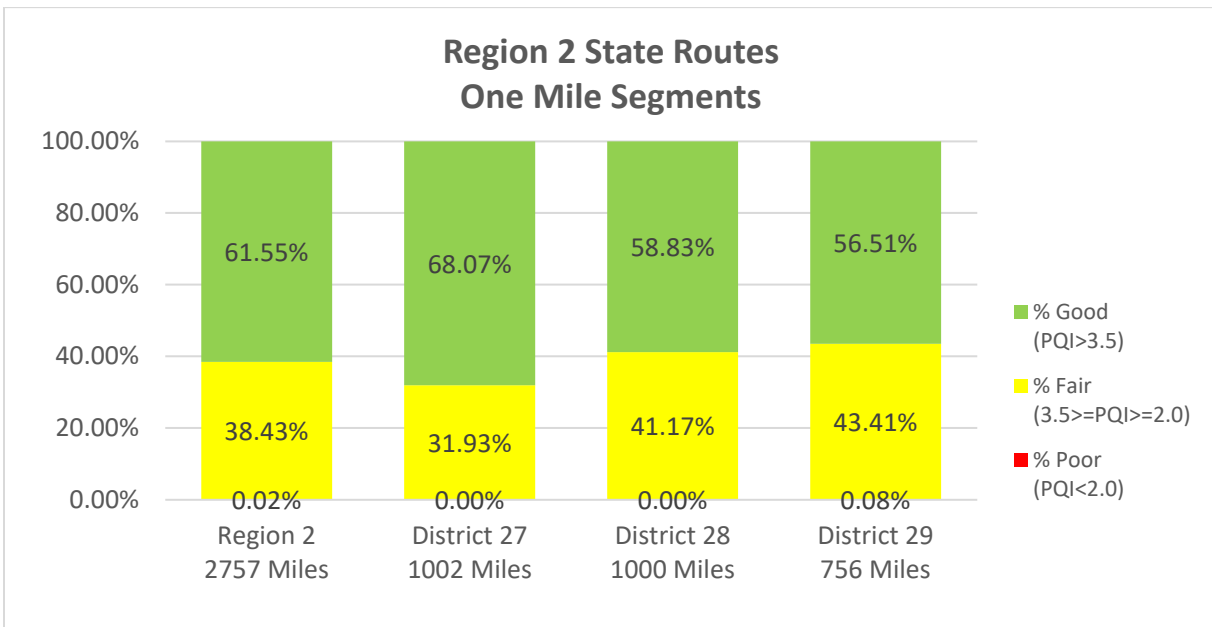




### 3.2 Region 2 State Routes

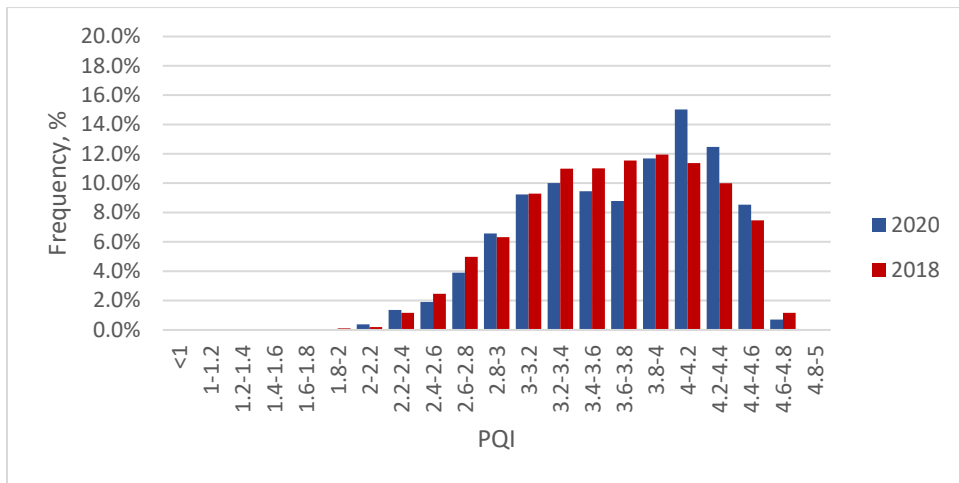
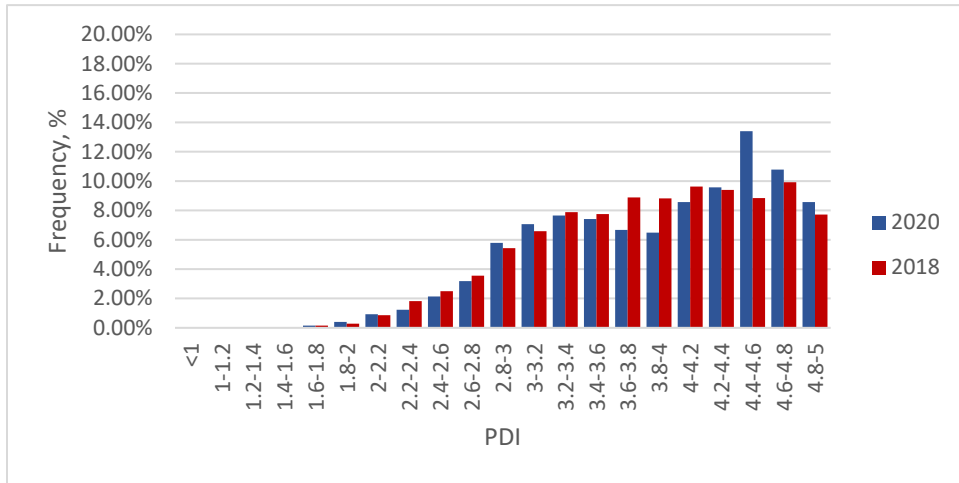
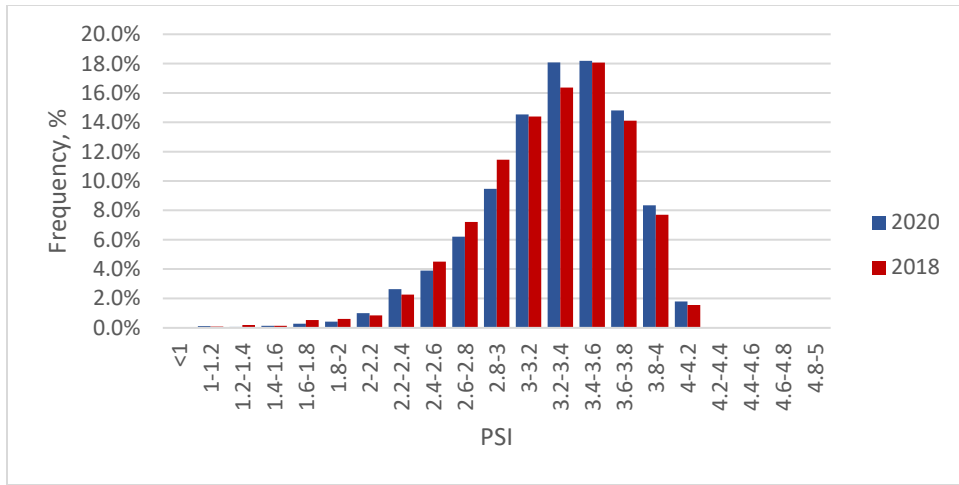


**(Average PQI=3.682 for 6.680 lane miles)**



**(Average PQI=3.674 for 2.757 centerline miles)**

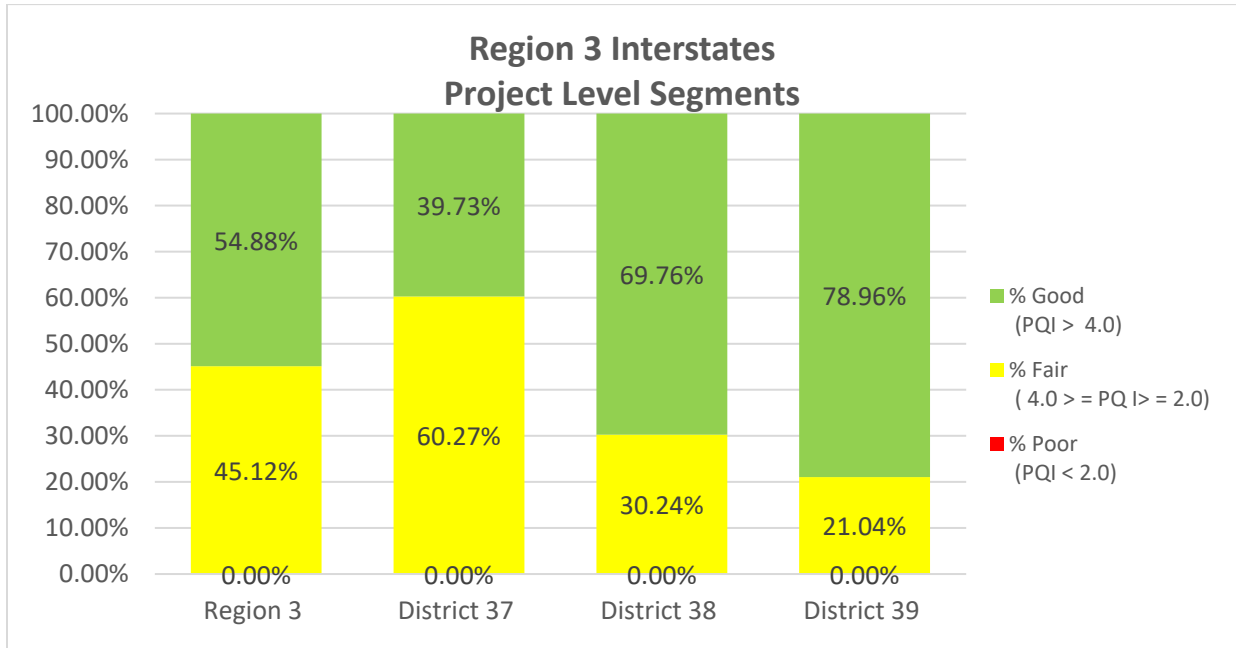
## Distribution of Pavement Condition Indices- Region 2 State Routes (One Mile Segments)



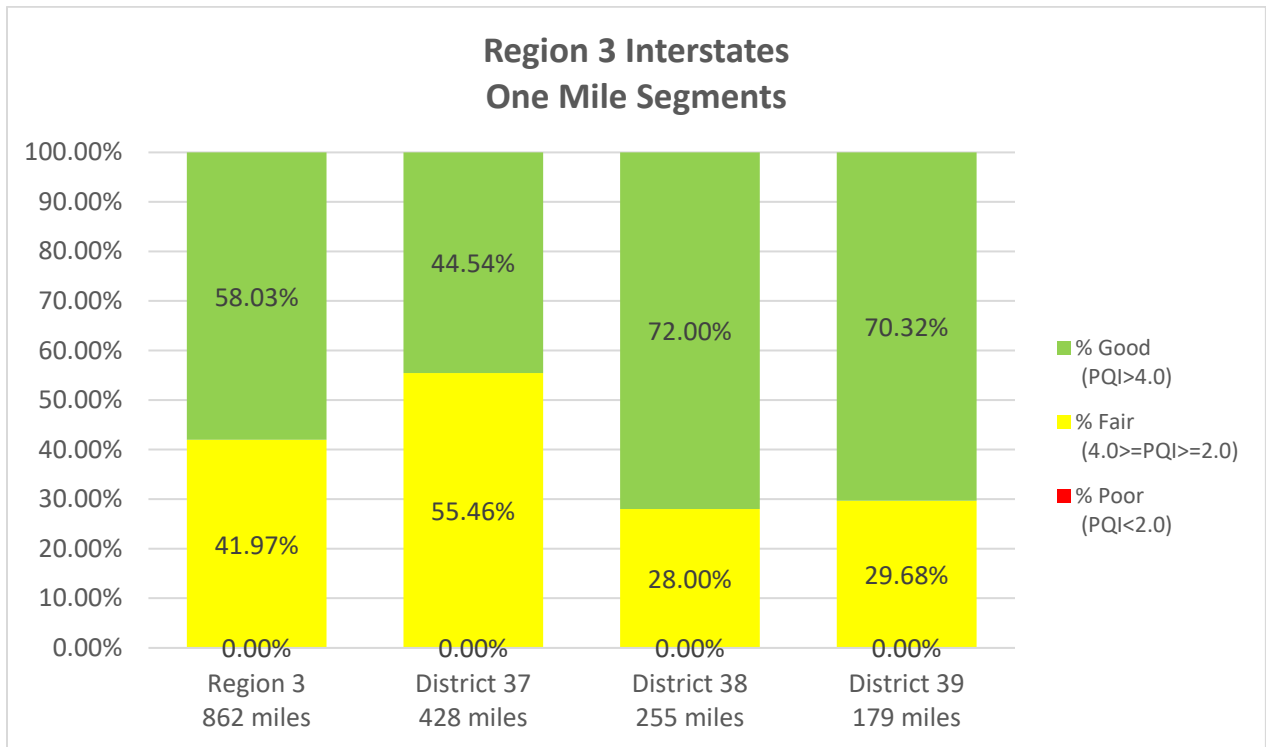
#### 4. Region 3 Pavement Conditions (Average of One Mile Segments)

2020 Region 3 by District		Interstates				NHS State Routes		
District	County	Average PSI	Average PDI	Average PQI	IRI< 94in./mi.	Average PSI	Average PDI	Average PQI
37	19 DAVIDSON	3.523	4.050	3.873	82.74%	2.841	3.611	3.342
37	56 MACON					3.374	3.631	3.547
37	80 SMITH	4.016	4.081	4.051	95.93%			
37	83 SUMNER	3.634	3.115	3.249	91.55%	3.372	3.698	3.578
37	85 TROUSDALE					3.626	4.856	4.448
37	94 WILLIAMSON	3.629	4.241	4.039	87.94%	3.123	3.919	3.646
37	95 WILSON	3.751	3.891	3.841	92.35%	3.198	3.810	3.606
<b>Average</b>		<b>3.638</b>	<b>4.055</b>	<b>3.914</b>	<b>87.31%</b>	<b>3.100</b>	<b>3.738</b>	<b>3.516</b>
38	11 CHEATHAM	3.925	4.465	4.294	96.45%			
38	22 DICKSON	3.860	4.054	3.982	95.67%	3.642	4.569	4.261
38	41 HICKMAN	3.793	4.221	4.075	91.46%			
38	42 HOUSTON							
38	43 HUMPHREYS	3.680	4.337	4.126	91.52%			
38	60 MAURY	3.978	4.484	4.324	98.59%	3.496	4.089	3.882
38	63 MONTGOMERY	4.033	4.212	4.154	99.42%	3.335	3.779	3.629
38	74 ROBERTSON	3.867	4.448	4.260	98.06%	3.385	3.997	3.793
38	81 STEWART					3.629	4.398	4.146
<b>Average</b>		<b>3.879</b>	<b>4.311</b>	<b>4.169</b>	<b>96.20%</b>	<b>3.496</b>	<b>4.145</b>	<b>3.926</b>
39	2 BEDFORD	3.645	3.740	3.715	94.44%	3.527	4.359	4.080
39	28 GILES	3.730	4.025	3.931	94.38%	3.391	3.895	3.721
39	50 LAWRENCE					3.558	3.804	3.713
39	51 LEWIS					3.632	4.266	4.055
39	52 LINCOLN					3.596	4.021	3.871
39	59 MARSHALL	4.046	4.257	4.189	97.66%			
39	64 MOORE					3.634	4.038	3.905
39	68 PERRY					3.366	4.041	3.819
39	75 RUTHERFORD	3.829	4.535	4.306	95.45%	3.403	3.955	3.761
39	91 WAYNE					3.455	3.734	3.630
<b>Average</b>		<b>3.834</b>	<b>4.363</b>	<b>4.192</b>	<b>95.49%</b>	<b>3.503</b>	<b>4.001</b>	<b>3.828</b>
<b>Region 3</b>				<b>4.047</b>	<b>91.64%</b>			<b>3.700</b>

## 4.1 Region 3 Interstates

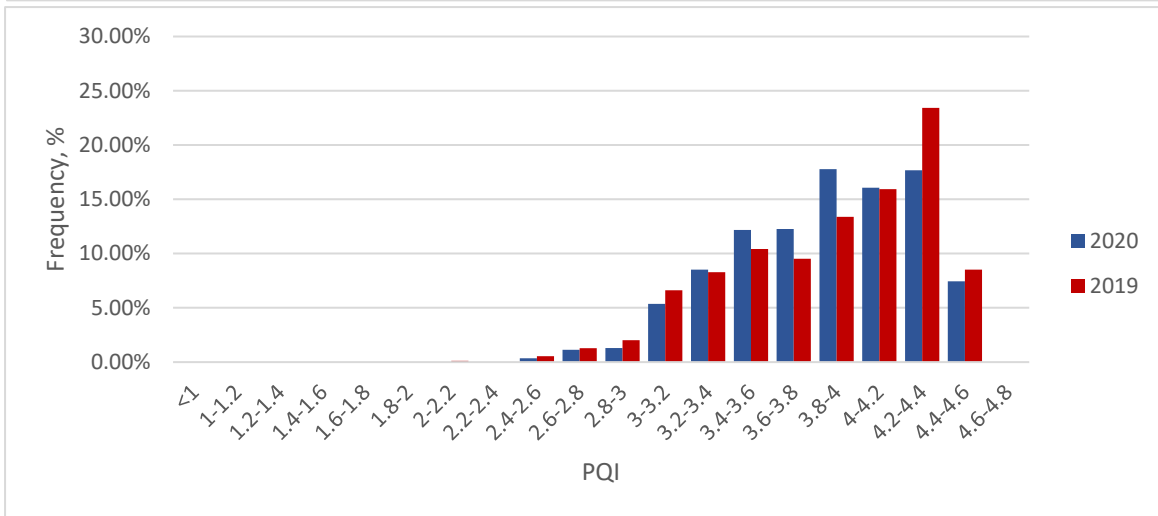
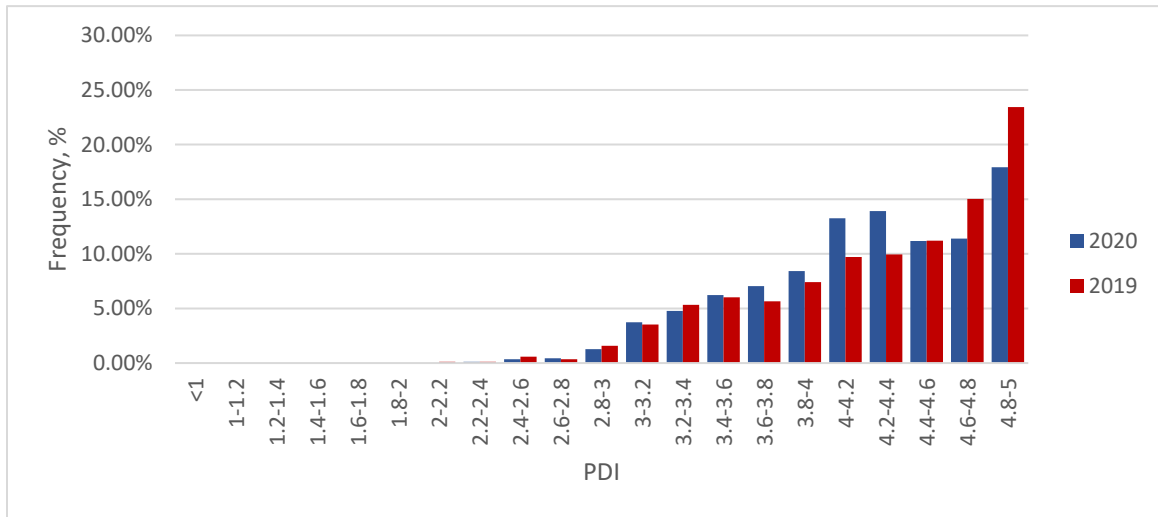
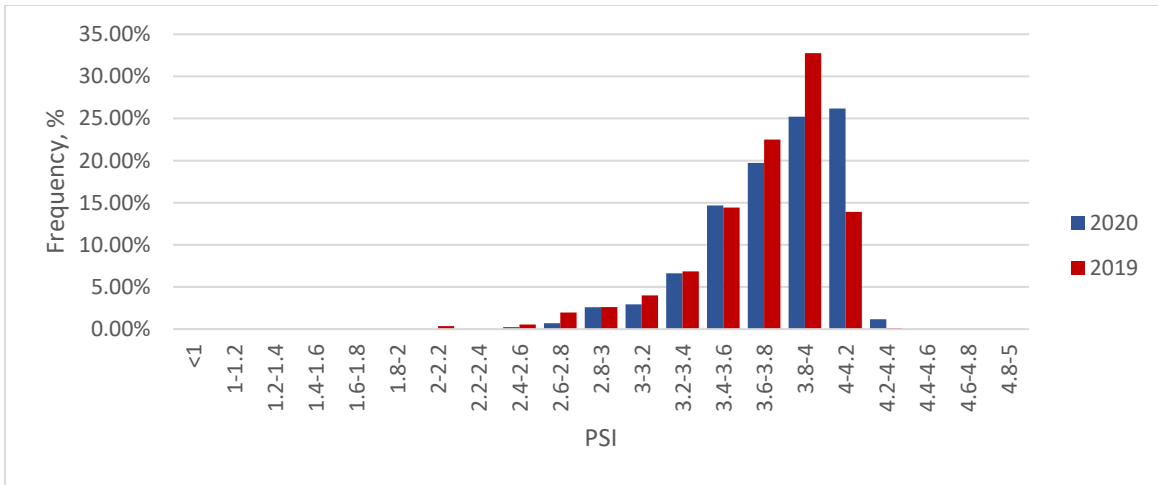


**(Average PQI=4.035 for 2,156 lane miles)**

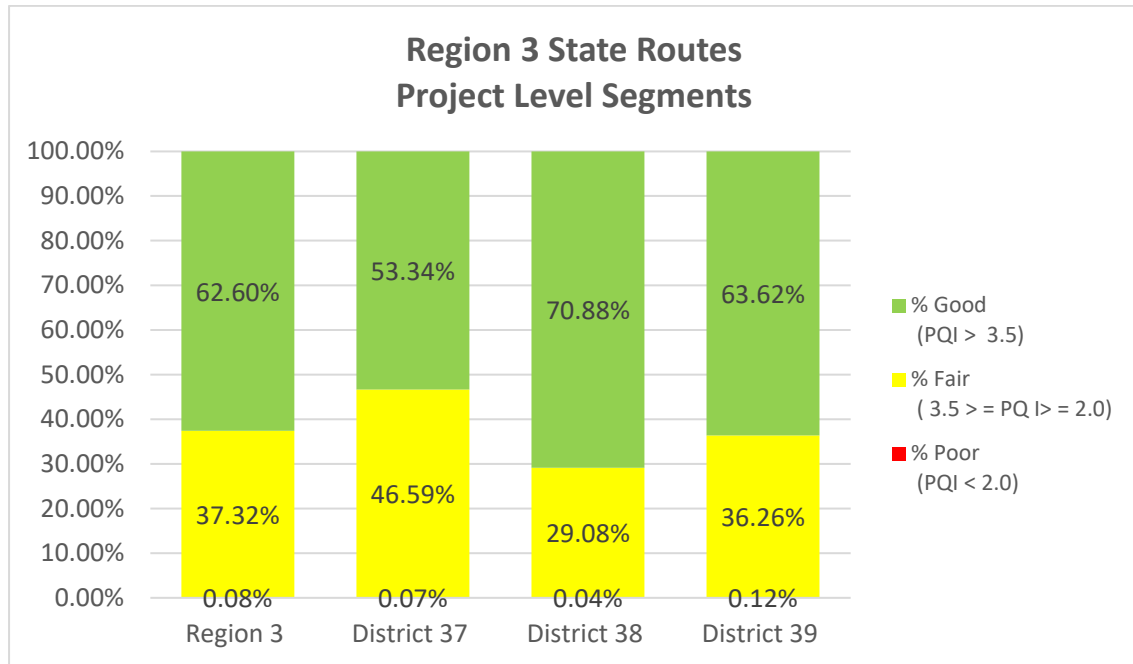


**(Average PQI=4.047 for 862 centerline mile)**

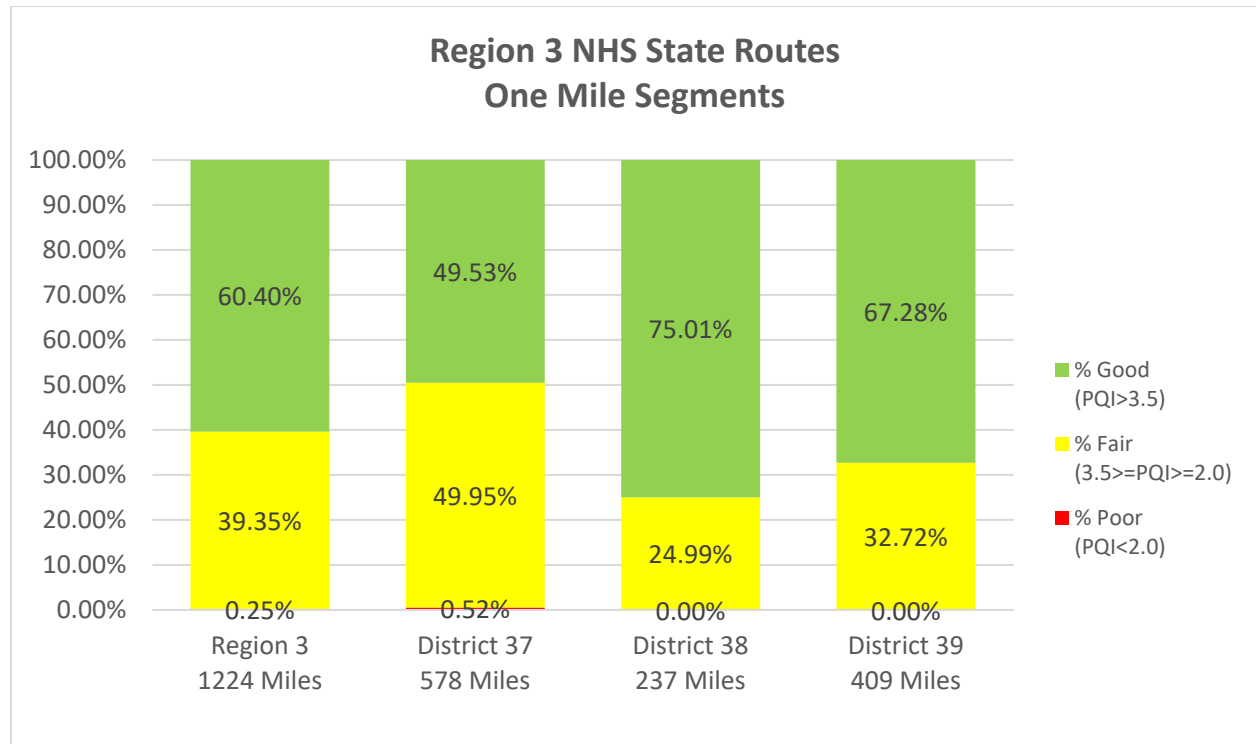
# Distribution of Pavement Condition Indices- Region 3 Interstates, One Mile Segments



## 4.2 Region 3 NHS State Routes

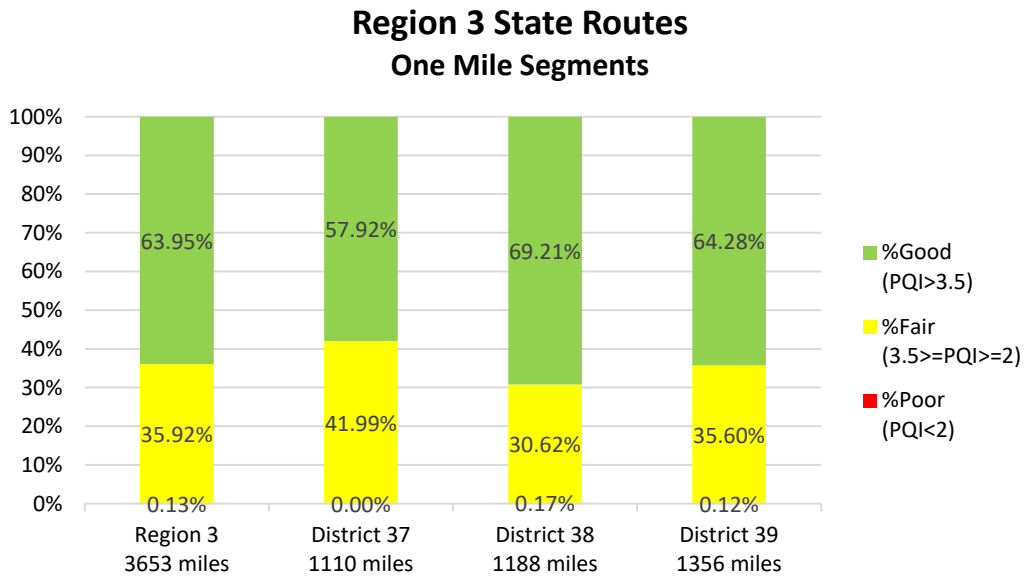


**(Average PQI=3.744 for 8,784 lane miles)**



**(Average PQI=3.700 for 1,224 centerline miles of NHS State Routes)**

### 4.3 Region 3 State Routes, 2019



**(Average PQI=3.746 for 3,653 centerline miles)**

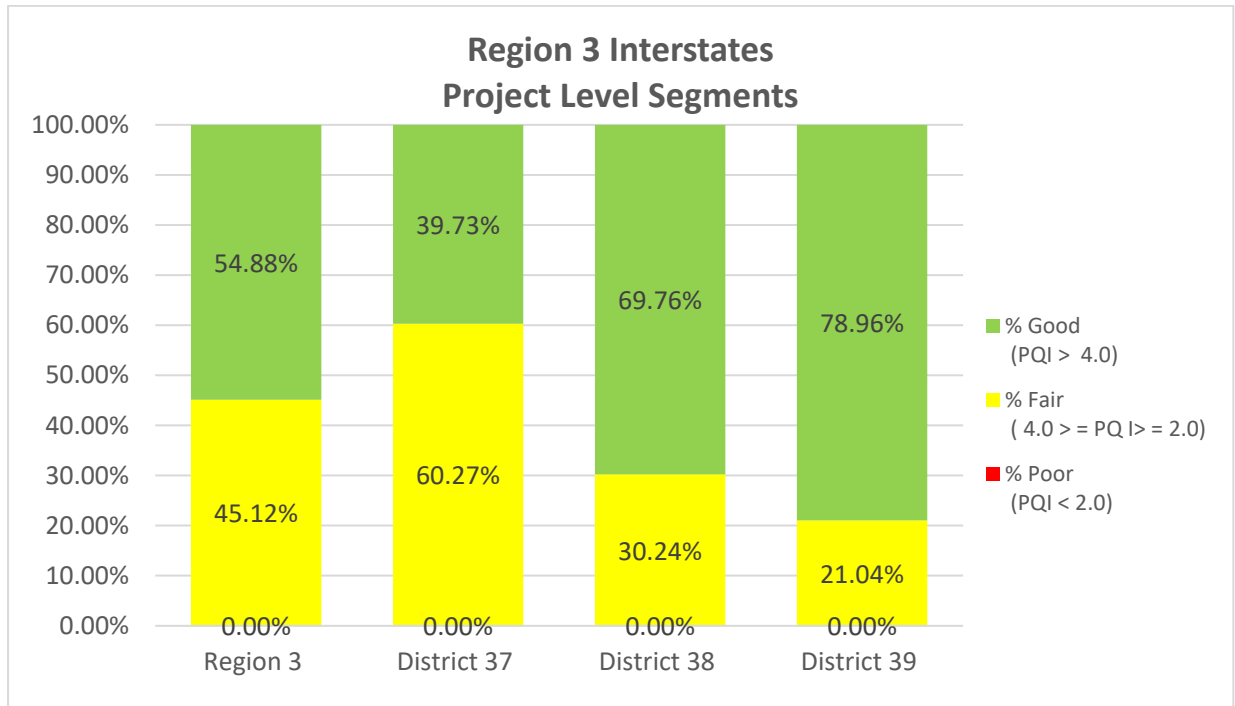
Data from the figure in this page are from 2019 pavement data delivery

## 5. Region 4 Pavement Conditions (*Average of One Mile Segments*)

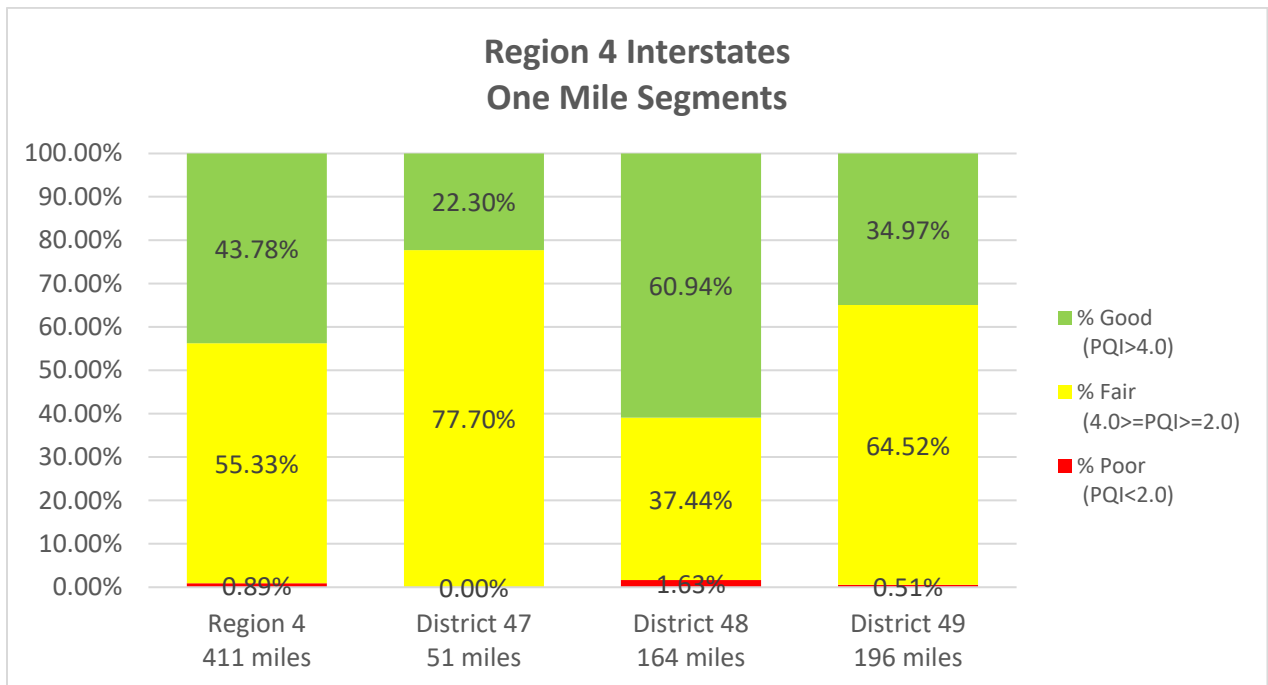
2020 Region 4 by District		Interstates				NHS State Routes		
District	County	Average PSI	Average PDI	Average PQI	IRI<94 In./mi.	Average PSI	Average PDI	Average PQI
47	3 BENTON	3.868	4.235	4.113	92.82%	3.577	3.707	3.655
47	9 CARROLL	4.105	4.970	4.695	100.00%	2.977	2.957	2.941
47	23 DYER	3.651	2.650	2.893	89.02%	3.348	3.119	3.172
47	27 GIBSON					3.147	3.389	3.306
47	40 HENRY					3.262	2.892	2.981
47	48 LAKE							
47	66 OBION					3.028	3.074	3.040
47	92 WEAKLEY					2.948	3.366	3.178
<b>Average</b>		<b>3.738</b>	<b>3.259</b>	<b>3.362</b>	<b>90.62%</b>	<b>3.147</b>	<b>3.181</b>	<b>3.146</b>
48	12 CHESTER					3.454	3.314	3.352
48	17 CROCKETT					3.459	3.090	3.181
48	20 DECATUR	3.637	1.841	2.250	92.96%	3.195	2.898	2.967
48	35 HARDEMAN					2.931	2.673	2.738
48	36 HARDIN					2.950	3.434	3.254
48	38 HAYWOOD	3.948	4.371	4.227	96.88%	2.792	3.222	3.078
48	39 HENDERSON	3.915	4.448	4.276	97.16%	3.256	3.628	3.485
48	55 MCNAIRY					3.197	3.247	3.211
48	57 MADISON	3.433	4.213	3.956	76.05%	2.996	3.062	3.023
<b>Average</b>		<b>3.741</b>	<b>4.166</b>	<b>4.013</b>	<b>89.62%</b>	<b>3.094</b>	<b>3.176</b>	<b>3.129</b>
49	24 FAYETTE	3.685	4.176	4.008	87.43%	3.227	2.896	2.980
49	49 LAUDERDALE					3.474	2.920	3.059
49	79 SHELBY	3.441	3.800	3.679	78.83%	2.593	3.177	2.966
49	84 TIPTON					3.147	3.331	3.250
<b>Average</b>		<b>3.499</b>	<b>3.891</b>	<b>3.758</b>	<b>80.90%</b>	<b>2.808</b>	<b>3.144</b>	<b>3.012</b>
<b>Region 4</b>				<b>3.811</b>	<b>85.58%</b>			<b>3.097</b>



## 5.1 Region 4 Interstates

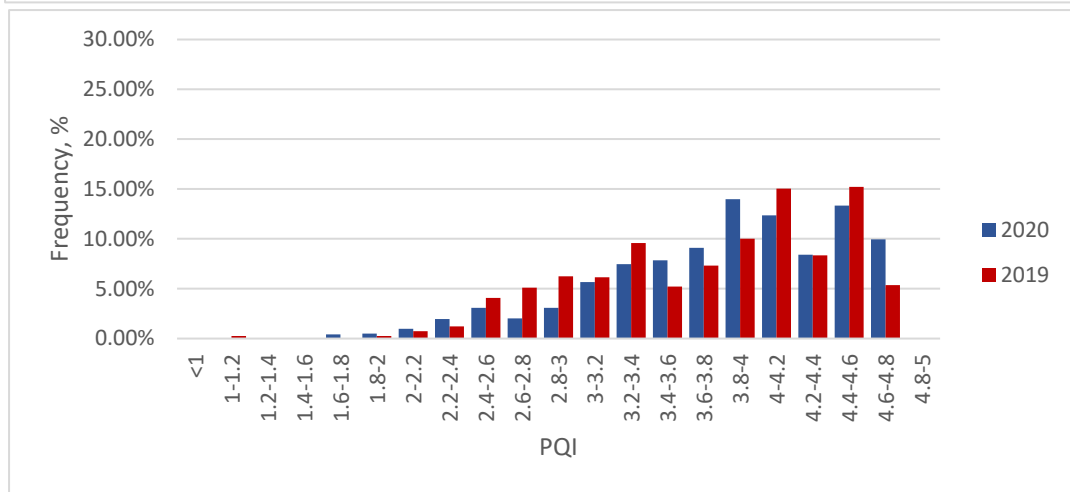
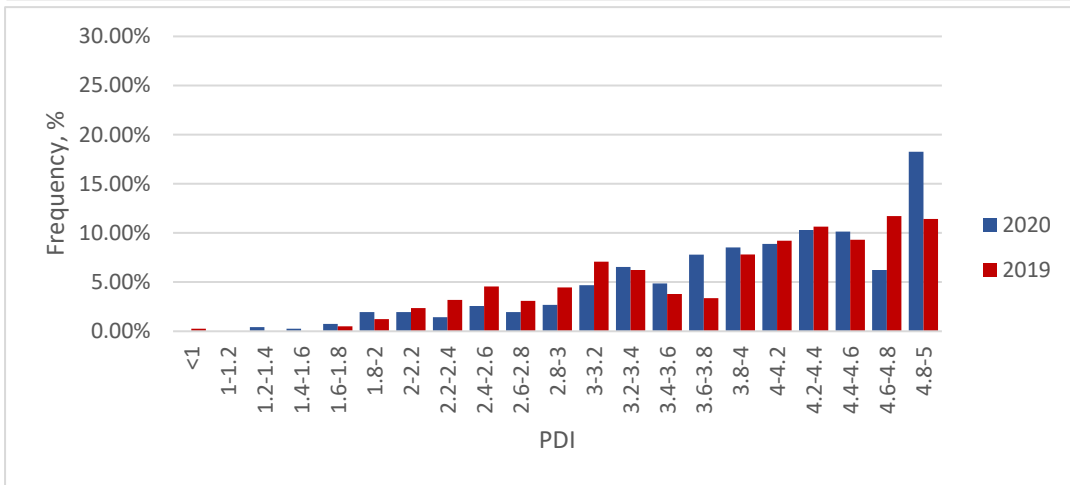
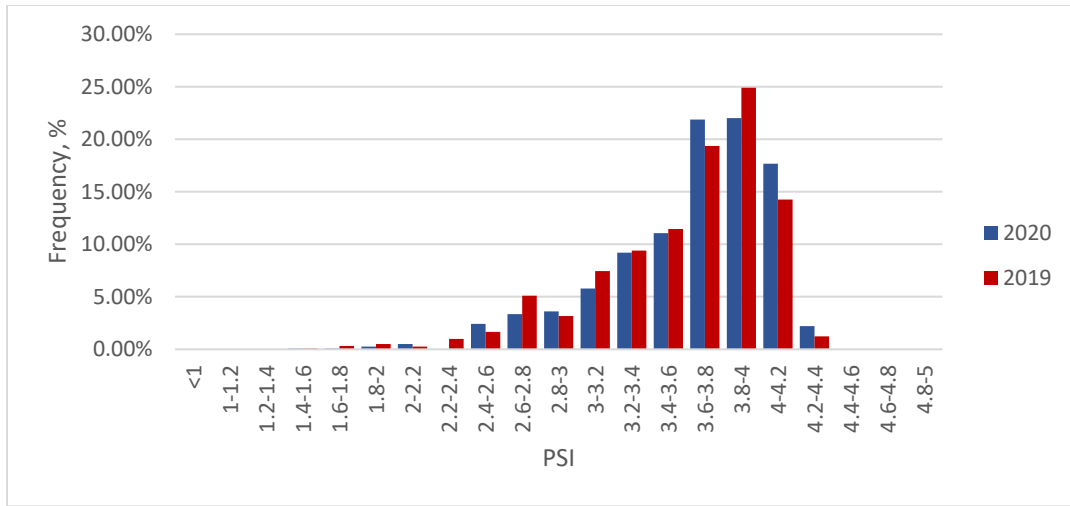


**(Average PQI=3.802 for 970 lane miles)**

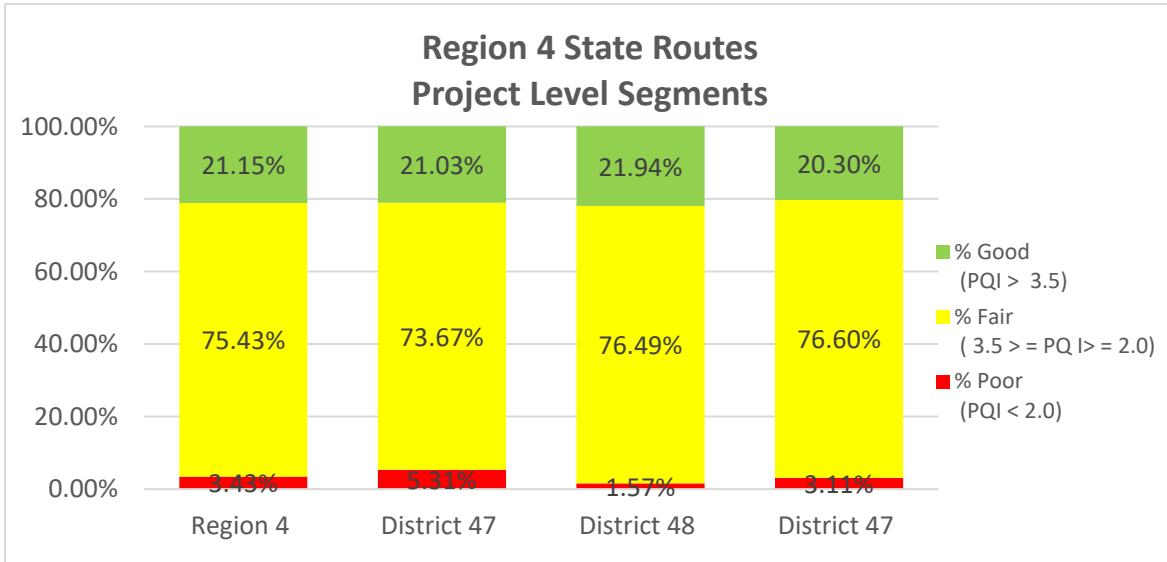


**(Average PQI=3.811 for 411 centerline miles)**

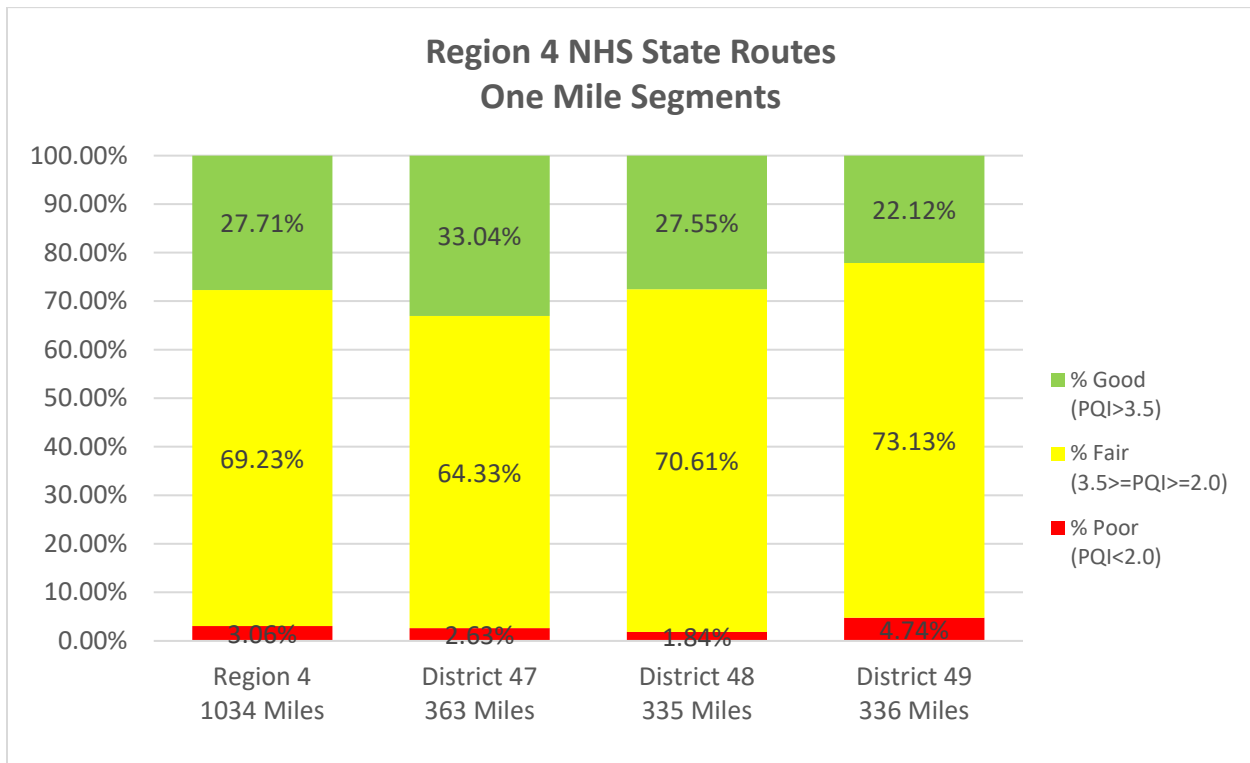
# Distribution of Pavement Condition Indices- Region 4 Interstates, One Mile Segments



## 5.2 Region 4 State Routes

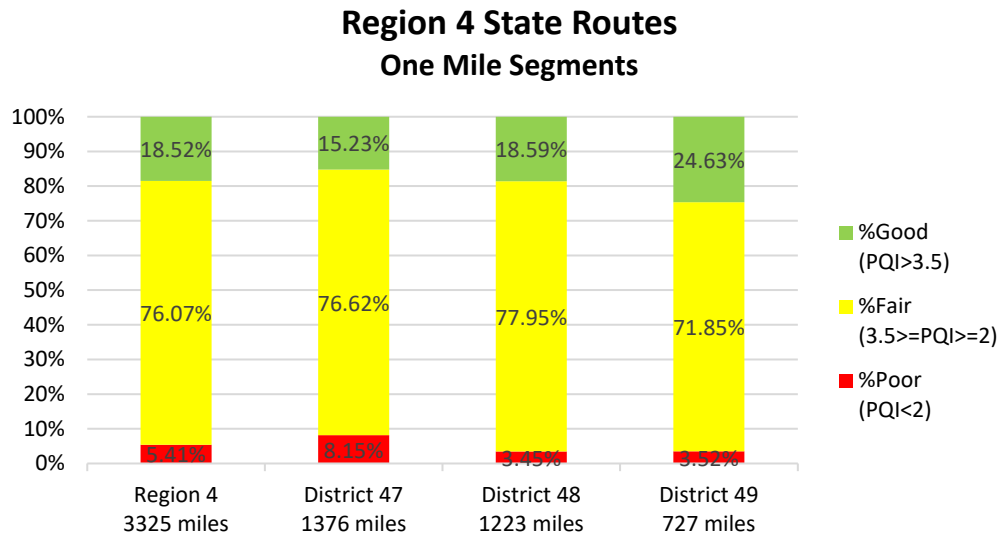


**(Average PQI=2.956 for 8,578 lane miles)**



**(Average PQI=3.097 for 1,034 centerline miles)**

### 5.3 Region 4 State Routes, 2019

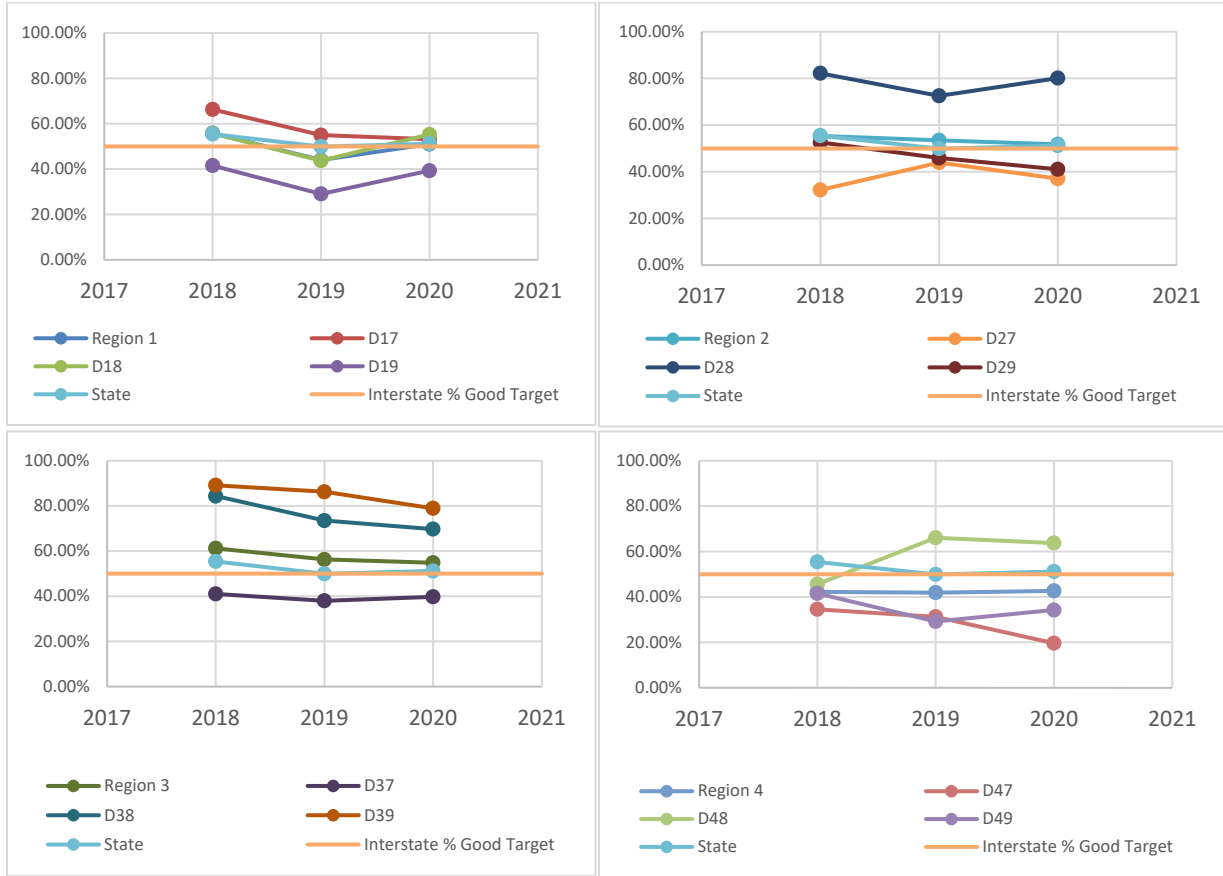


**(Average PQI=2.874 for 3.325 centerline miles)**

Data from the figure in this page are from 2019 pavement data delivery

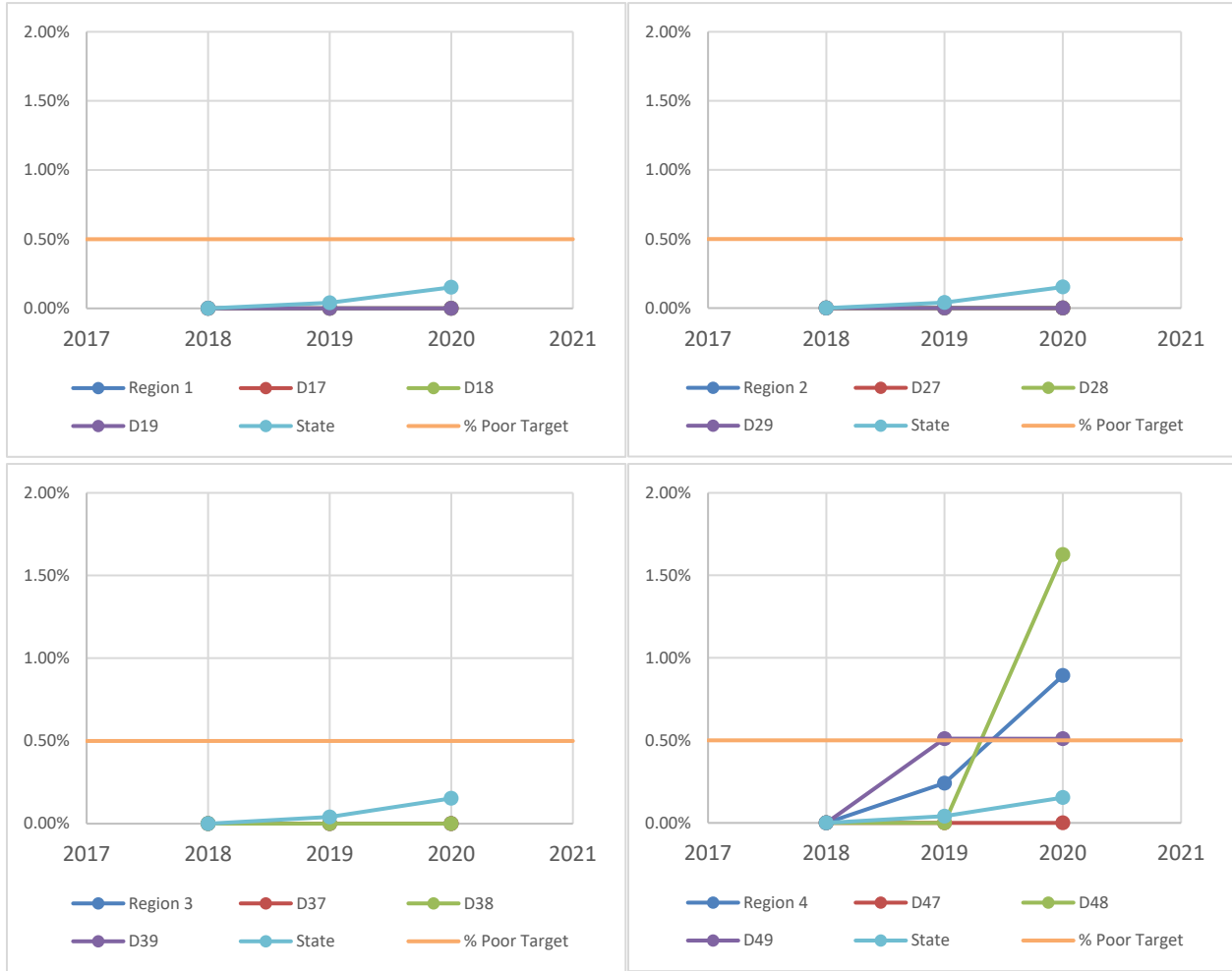
# Appendix I: TAMP Metrics

## Interstate %Good (Project-Length Segments)



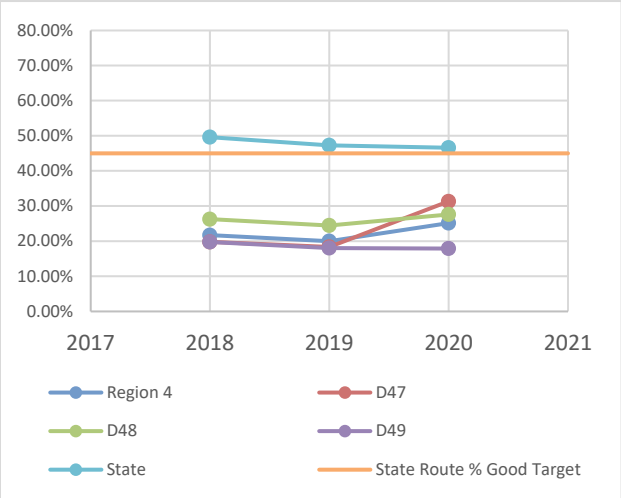
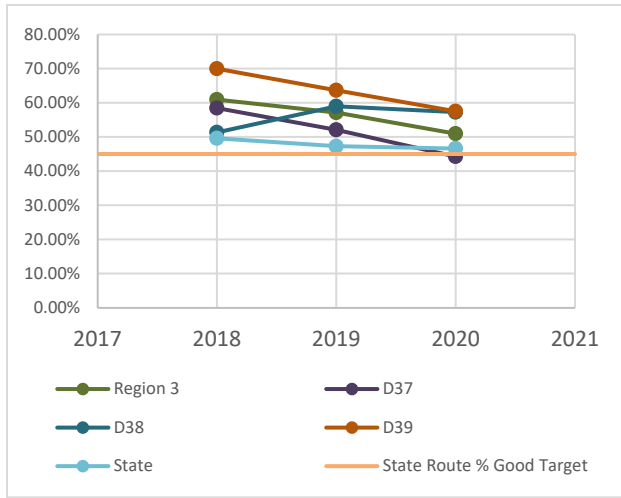
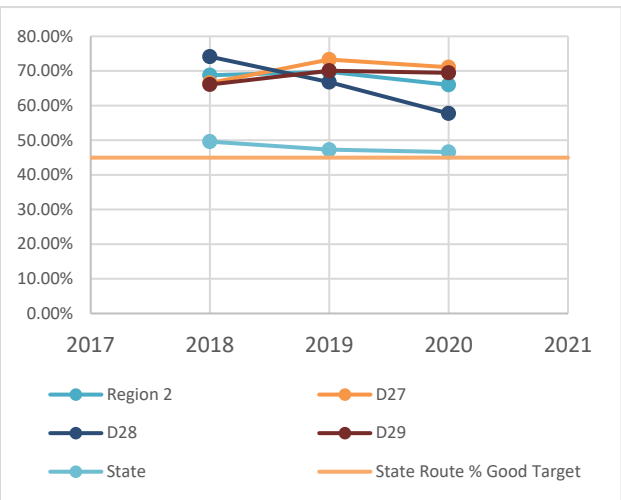
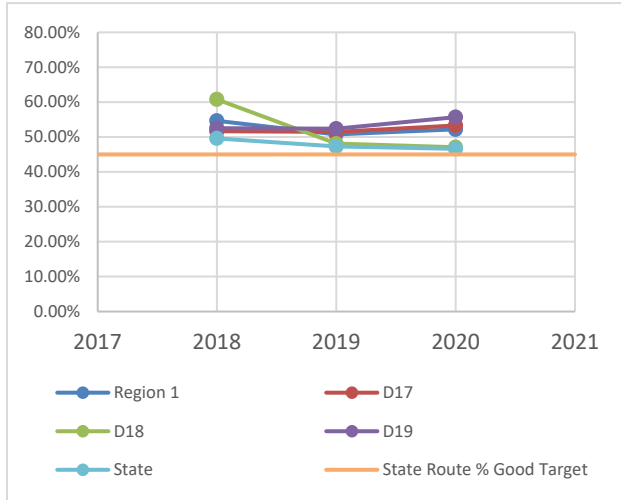
Region/District	Year			Region/District	Year		
	2018	2019	2020		2018	2019	2020
Region 1	55.86%	43.99%	51.01%	Region 2	55.40%	53.44%	51.76%
D17	66.27%	54.94%	53.18%	D27	32.24%	43.96%	37.05%
D18	55.70%	43.75%	55.23%	D28	82.18%	72.54%	80.11%
D19	41.57%	29.03%	39.29%	D29	52.56%	45.89%	41.07%
Region 3	61.20%	56.27%	54.88%	Region 4	42.19%	41.91%	42.71%
D37	41.05%	37.96%	39.73%	D47	34.59%	31.25%	19.60%
D38	84.36%	73.51%	69.76%	D48	45.62%	66.06%	63.74%
D39	89.13%	86.27%	78.96%	D49	41.54%	29.24%	34.25%
State	55.43%	49.93%	51.19%	Target	>50%		

## Interstate %Poor (One Mile Segments)



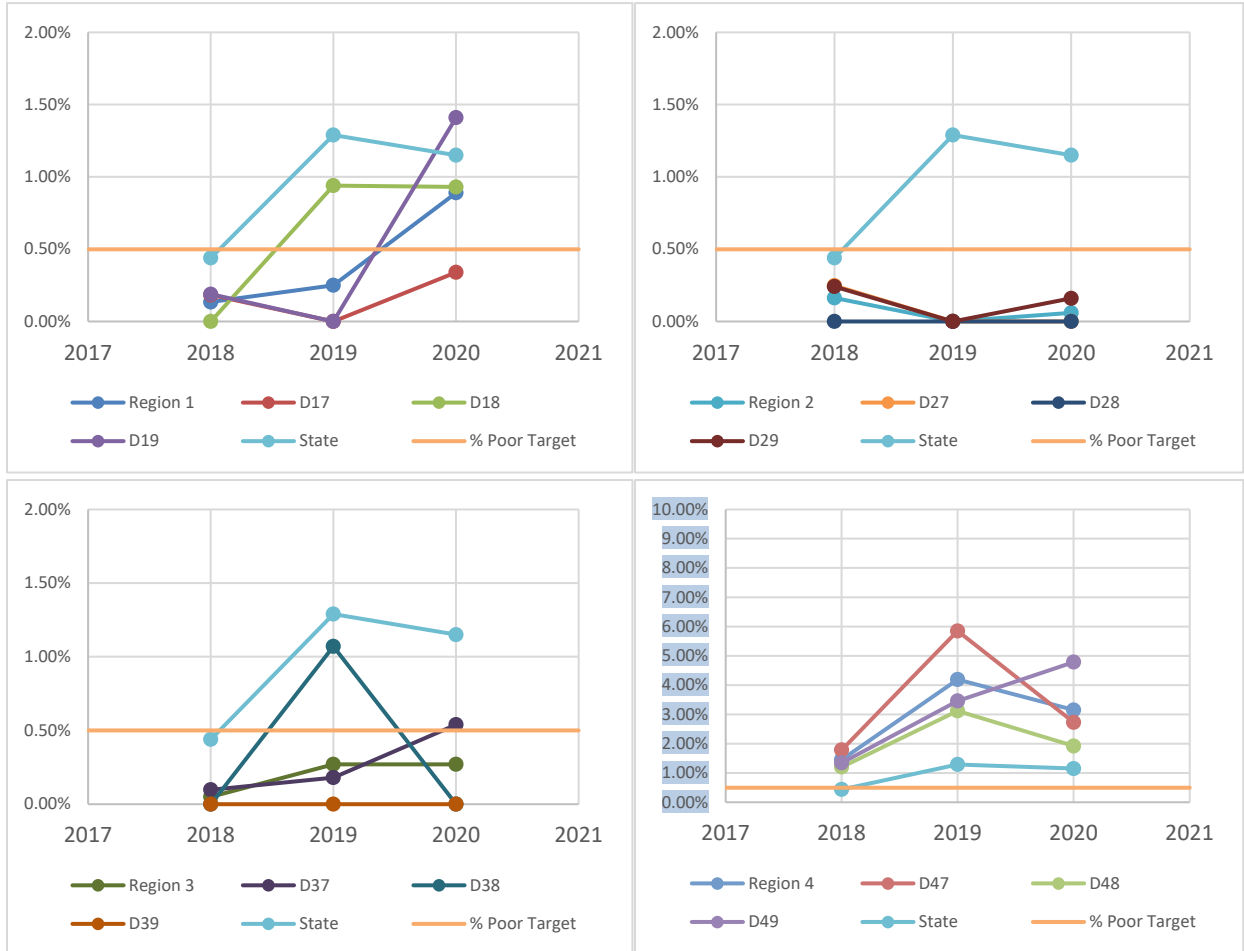
Region/District	Year			Region/District	Year		
	2018	2019	2020		2018	2019	2020
Region 1	0.00%	0.00%	0.00%	Region 2	0.00%	0.00%	0.00%
D17	0.00%	0.00%	0.00%	D27	0.00%	0.00%	0.00%
D18	0.00%	0.00%	0.00%	D28	0.00%	0.00%	0.00%
D19	0.00%	0.00%	0.00%	D29	0.00%	0.00%	0.00%
Region 3	0.00%	0.00%	0.00%	Region 4	0.00%	0.24%	0.89%
D37	0.00%	0.00%	0.00%	D47	0.00%	0.00%	0.00%
D38	0.00%	0.00%	0.00%	D48	0.00%	0.00%	1.63%
D39	0.00%	0.00%	0.00%	D49	0.00%	0.04%	0.15%
State	0.00%	0.00%	0.00%	Target	<0.5%		

## NHS State Route %Good (Project-Length Segments)



Region/District	Year			Region/District	Year		
	2018	2019	2020		2018	2019	2020
Region 1	54.64%	50.75%	52.19%	Region 2	68.78%	69.75%	66.00%
D17	51.65%	51.46%	53.32%	D27	66.55%	73.33%	71.09%
D18	60.79%	48.09%	47.08%	D28	74.14%	66.79%	57.75%
D19	52.52%	52.42%	55.70%	D29	66.09%	70.09%	69.46%
Region 3	60.95%	57.11%	50.95%	Region 4	21.71%	20.02%	25.15%
D37	58.47%	52.08%	44.28%	D47	19.79%	18.35%	31.32%
D38	51.34%	58.97%	57.24%	D48	26.24%	24.45%	27.59%
D39	69.98%	63.65%	57.52%	D49	19.76%	18.03%	17.90%
State	49.61%	47.28%	46.61%	Target	>45%		

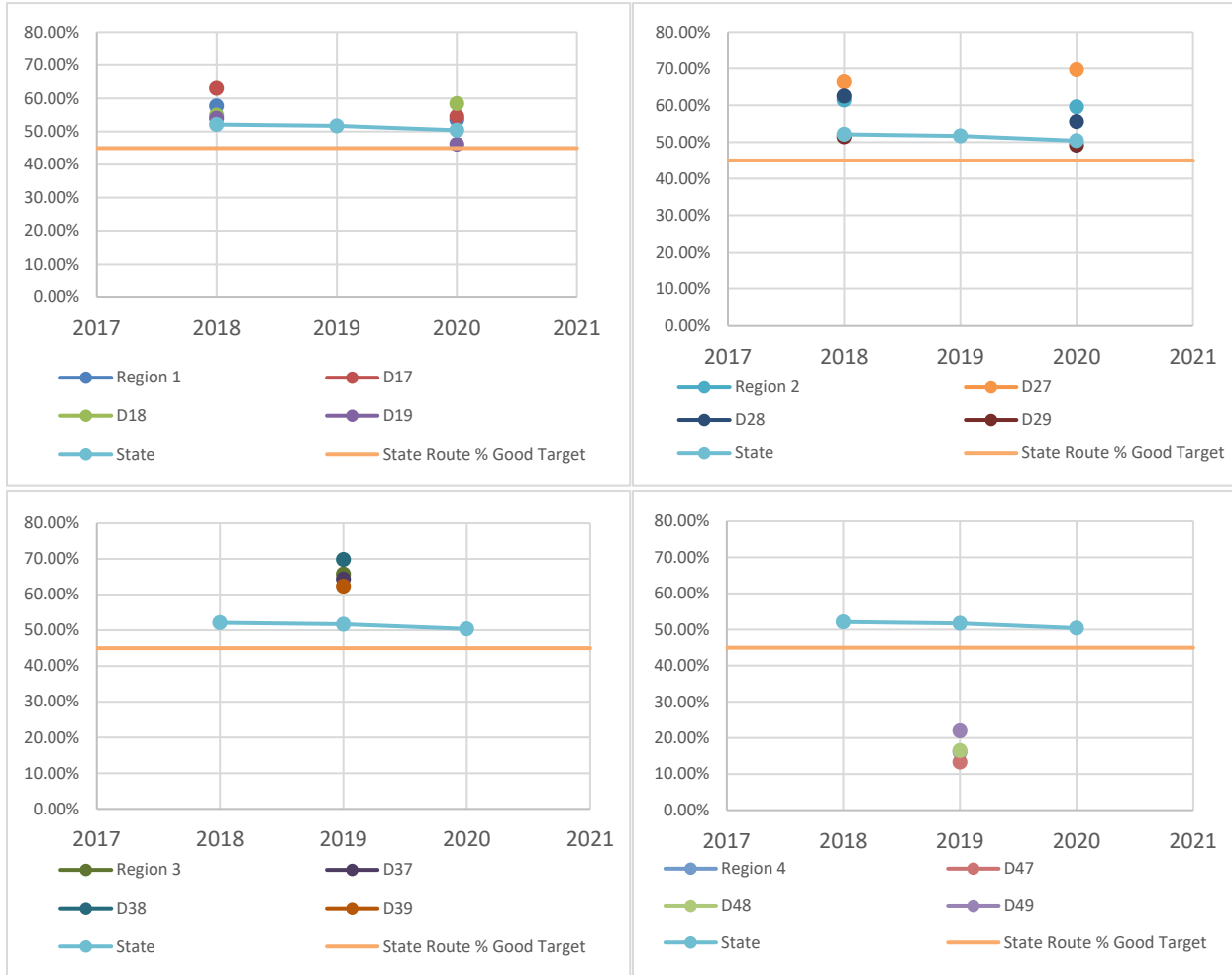
## NHS State Route %Poor (One-Mile Segments)



Region/District	Year			Region/District	Year		
	2018	2019	2020		2018	2019	2020
Region 1	0.13%	0.25%	0.89%	Region 2	0.16%	0.00%	0.06%
D17	0.18%	0.00%	0.34%	D27	0.25%	0.00%	0.00%
D18	0.00%	0.94%	0.93%	D28	0.00%	0.00%	0.00%
D19	0.19%	0.00%	1.41%	D29	0.24%	0.00%	0.16%
Region 3	0.05%	0.27%	0.27%	Region 4	1.46%	4.19%	3.15%
D37	0.10%	0.18%	0.54%	D47	1.79%	5.85%	2.73%
D38	0.00%	1.07%	0.00%	D48	1.21%	3.12%	1.92%
D39	0.00%	0.00%	0.00%	D49	1.35%	3.46%	4.79%
State	0.44%	1.29%	1.15%	Target	<0.5%		

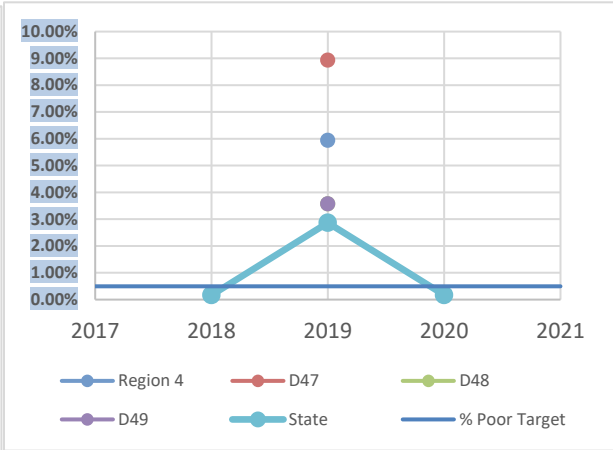
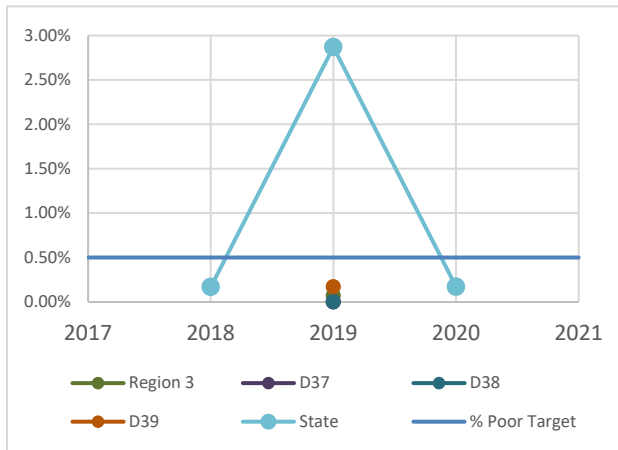
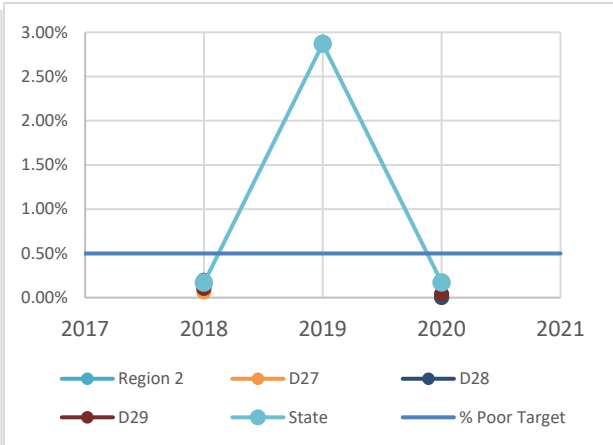
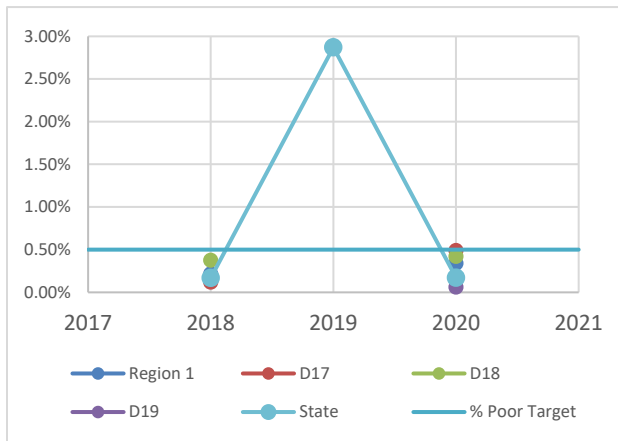


## Non-NHS State Route %Good (Project-Length Segments)



Region/District	Year			Region/District	Year		
	2018	2019	2020		2018	2019	2020
Region 1	57.70%	NA	53.58%	Region 2	61.47%	NA	59.59%
D17	63.05%	NA	54.55%	D27	66.41%	NA	69.65%
D18	54.94%	NA	58.42%	D28	62.53%	NA	55.60%
D19	53.99%	NA	46.17%	D29	51.42%	NA	49.15%
Region 3	NA	65.76%	NA	Region 4	NA	16.12%	NA
D37	NA	64.33%	NA	D47	NA	13.31%	NA
D38	NA	69.82%	NA	D48	NA	16.50%	NA
D39	NA	62.32%	NA	D49	NA	21.96%	NA
State	52.12%	51.70%	50.39%	Target	>45%		

## Non-NHS State Route %Poor (One-Mile Segments)



Region/District	Year			Region/District	Year		
	2018	2019	2020		2018	2019	2020
Region 1	0.22%	NA	0.34%	Region 2	0.12%	NA	0.01%
D17	0.12%	NA	0.49%	D27	0.06%	NA	0.00%
D18	0.38%	NA	0.42%	D28	0.19%	NA	0.00%
D19	0.16%	NA	0.06%	D29	0.10%	NA	0.04%
Region 3	NA	0.07%	NA	Region 4	NA	5.94%	NA
D37	NA	0.00%	NA	D47	NA	8.93%	NA
D38	NA	0.00%	NA	D48	NA	3.57%	NA
D39	NA	0.17%	NA	D49	NA	3.57%	NA
State	0.17%	2.87%	0.17%	Target	<0.5%		

## Appendix II: List of segments in poor condition (1-mile segment)

County #	COUNTY	Region	District	Route Type	Route Number	County Sequence	Special Case	Direction	Begin Log Mile	End Log Mile	IRI	HCIRI	Rut Depth	PSI	PDI	PQI
20	DECATUR	4	48	I	40	1		M	1	2	57.22	44.6	0.23	3.65	1.44	1.9
20	DECATUR	4	48	I	40	1		M	3	4	85.16	67.06	0.27	3.13	1.28	1.67
20	DECATUR	4	48	I	40	1		M	5	5.67	71.19	54.55	0.26	3.38	1.31	1.74
79	SHELBY	4	49	I	40	1		P	5	6	185.8	166.3	0.12	1.8	2.03	1.96
1	ANDERSON	1	18	SR	9	1		P	3	4	84.01	67.28	0.16	3.15	1.54	1.91
6	BRADLEY	2	29	SR	311	1		P	6	6.07	238.1	210.7	0.26	1.35	2.31	1.97
9	CARROLL	4	47	SR	22	1	BYP	P	0	1	158.6	119.6	0.25	2.09	0.91	1.17
9	CARROLL	4	47	SR	22	1	BYP	P	1	2	152.6	117.1	0.24	2.16	0.85	1.12
9	CARROLL	4	47	SR	22	1	BYP	P	2	3	154.3	119	0.19	2.14	1.69	1.81
9	CARROLL	4	47	SR	22	1	BYP	P	3	3.59	164.8	129.2	0.18	2.02	1.45	1.6
9	CARROLL	4	47	SR	76	1		P	15	16	114.8	91.58	0.17	2.66	1.24	1.56
13	CLAIBORNE	1	19	SR	63	1		P	13	14	155.2	145.9	0.3	2.13	1.07	1.32
13	CLAIBORNE	1	19	SR	63	1		P	14	15	92.88	75.31	0.32	3	1.14	1.52
13	CLAIBORNE	1	19	SR	63	1		P	15	16	107.4	85.02	0.42	2.77	1.36	1.68
13	CLAIBORNE	1	19	SR	63	1		P	17	18	78.32	59.79	0.31	3.25	0.9	1.32
18	CUMBERLAND	2	27	SR	419	1		P	4	4.04	292.6	280.1	0.08	1	2.02	1.64
19	DAVIDSON	3	37	SR	6	1		P	13	14	77.77	62.63	0.25	3.26	1.07	1.49
19	DAVIDSON	3	37	SR	65	1		P	7	8	117.5	94.67	0.18	2.62	1.72	1.95
23	DYER	4	47	SR	3	1		P	9	10	150.9	120	0.2	2.18	1.54	1.71
23	DYER	4	47	SR	104	1		P	24	25	111.4	88.38	0.22	2.71	1.54	1.82
29	GRAINGER	1	18	SR	375	1		P	15	16	119.6	98.84	0.14	2.59	1.55	1.81
32	HAMBLEN	1	17	SR	34	1		P	3	4	72.81	60.72	0.15	3.35	1.51	1.92
33	HAMILTON	2	29	SR	316	1		P	0	0.23	322.2	272.6	0.2	0.85	2.35	1.73

County #	COUNTY	Region	District	Route Type	Route Number	County Sequence	Special Case	Direction	Begin Log Mile	End Log Mile	IRI	HCIRI	Rut Depth	PSI	PDI	PQI
33	HAMILTON	2	29	SR	321	1		P	7	7.09	298.2	253	0.29	0.97	2.12	1.68
33	HAMILTON	2	29	SR	389	1		P	0	0.24	385.5	371.5	0.15	0.6	1.55	1.17
35	HARDEMAN	4	48	SR	18	1		P	13	14	149.3	128.1	0.17	2.2	1.81	1.92
35	HARDEMAN	4	48	SR	18	1		P	14	15	151.8	113	0.19	2.17	1.68	1.81
36	HARDIN	4	48	SR	128	1		P	23.22	24.22	212.9	173.2	0.19	1.55	1.88	1.77
37	HAWKINS	1	17	SR	346	1		P	2	3	98.42	75.88	0.12	2.91	1.55	1.87
37	HAWKINS	1	17	SR	346	1		P	4	5	99.67	78.21	0.13	2.89	1.58	1.89
39	HENDERSON	4	48	SR	22	1		P	9	10	198.3	164.1	0.22	1.68	2.03	1.92
40	HENRY	4	47	SR	54	1		P	10	11	150.1	126.8	0.19	2.19	1.39	1.59
40	HENRY	4	47	SR	356	1		P	0	0.95	223.8	185.8	0.2	1.46	1.56	1.53
46	JOHNSON	1	17	SR	167	1		P	20	20.98	105.4	87.64	0.18	2.8	1.27	1.61
47	KNOX	1	18	SR	1	1		P	22	23	153.5	135.2	0.17	2.15	1.86	1.94
47	KNOX	1	18	SR	1	1		P	23	24	150.1	128.5	0.19	2.19	1.75	1.87
49	LAUDERDALE	4	49	SR	19	1		P	20	21	144.4	115.3	0.23	2.26	1.82	1.94
57	MADISON	4	48	SR	1	1	WB	P	0	0.33	231.5	202.7	0.21	1.4	1.85	1.7
57	MADISON	4	48	SR	18	1		P	8	9	97.17	77.96	0.21	2.93	1.25	1.61
57	MADISON	4	48	SR	18	1		P	9	9.83	123.9	108.5	0.21	2.53	1.58	1.82
66	OBION	4	47	SR	3	1		P	7	8	120.3	94.62	0.25	2.58	1.76	1.97
73	ROANE	1	19	SR	330	1		P	0	0.38	193	181.5	0.16	1.73	2	1.91
79	SHELBY	4	49	SR	1	1		P	10	11	236.7	215.5	0.19	1.36	2.2	1.9
79	SHELBY	4	49	SR	1	1		P	11	12	200.5	173.1	0.17	1.66	1.9	1.82
79	SHELBY	4	49	SR	1	1		P	28	29	118.9	98.54	0.23	2.6	1.58	1.83
79	SHELBY	4	49	SR	3	1	SB	P	0	1	231.5	210.8	0.17	1.4	2.29	1.98
79	SHELBY	4	49	SR	3	1		P	10	11	247.7	225.5	0.2	1.28	2.38	1.98
79	SHELBY	4	49	SR	3	1		P	11	12	315.9	401.1	0.23	0.88	2.09	1.61
79	SHELBY	4	49	SR	3	1		P	12	13	227.6	270.1	0.22	1.43	1.86	1.72

County #	COUNTY	Region	District	Route Type	Route Number	County Sequence	Special Case	Direction	Begin Log Mile	End Log Mile	IRI	HCIRI	Rut Depth	PSI	PDI	PQI
79	SHELBY	4	49	SR	4	1		P	1	2	228.9	188.3	0.42	1.42	1.1	1.19
79	SHELBY	4	49	SR	4	1		P	2	3	273.7	266.2	0.65	1.11	1.46	1.34
79	SHELBY	4	49	SR	14	1		P	10	11	282	241	0.22	1.06	2.58	1.98
79	SHELBY	4	49	SR	15	1		P	16	16.3	97.79	83.8	0.2	2.92	1.42	1.76
79	SHELBY	4	49	SR	23	1		P	2	3	222.6	195.3	0.21	1.47	2.27	1.99
79	SHELBY	4	49	SR	57	1		P	6	7	270.4	248.4	0.25	1.13	2.17	1.78
79	SHELBY	4	49	SR	57	1		P	19	20	278.6	264.6	0.29	1.08	1.88	1.59
79	SHELBY	4	49	SR	300	1		P	0	1	201.6	190.5	0.12	1.65	2	1.89
79	SHELBY	4	49	SR	300	1		P	1	1.66	212.9	196.2	0.13	1.55	2.16	1.96
82	SULLIVAN	1	17	SR	355	1		P	0	1	154.3	128	0.28	2.14	1.52	1.68
83	SUMNER	3	37	SR	6	1		P	30	31	82.86	70.14	0.18	3.17	1.59	1.96
87	UNION	1	18	SR	170	1		P	7	8	139.6	116.8	0.15	2.32	1.77	1.92

### Appendix III: List of segments in poor condition (Project segment)

County #	COUNTY	Region	District	Route Type	Route Number	County Sequence	Special Case	Direction	From Log Mile	To Log Mile	IRI	HCIRI	Rut Depth	PSI	PDI	Year	PQI	NHS
47	KNOX	1	18	I	140	1		M	0	0.56	143.57	129.53	0.21	2.27	1.67	2020	1.83	1
79	SHELBY	4	49	I	40	1		P	7.29	7.5	270.4	234.12	0.14	1.13	1.78	2020	1.55	1
79	SHELBY	4	49	I	40	1		M	7.5	7.53	200.48	154.4	0.14	1.66	0.37	2020	0.58	1
3	BENTON	4	47	SR	191	1	SB	P	0	0.06	388.56	366.4	0.17	0.59	1.76	2019	1.27	0
3	BENTON	4	47	SR	1	1		P	8.54	12.65	113.39	89.1	0.2	2.68	1.74	2019	1.98	0
3	BENTON	4	47	SR	191	1		P	15.17	15.37	226.33	233.3	0.16	1.44	2.28	2019	1.99	0
9	CARROLL	4	47	SR	22	1	BYP	P	0	3.59	156.86	120.29	0.22	2.11	1.2	2020	1.42	1
9	CARROLL	4	47	SR	124	1		P	1.4	1.43	276.96	220.2	0.21	1.09	1.61	2019	1.43	0
9	CARROLL	4	47	SR	105	1		P	5.48	5.49	505.57	481.9	0.17	0.31	2.89	2019	1.48	0
9	CARROLL	4	47	SR	1	1		P	9.55	13.27	117.5	99.6	0.17	2.62	1.7	2019	1.94	0
9	CARROLL	4	47	SR	77	1		P	13.7	13.9	163	127.85	0.15	2.04	1.66	2019	1.77	0
9	CARROLL	4	47	SR	76	1		P	14.98	17.49	108.04	87.88	0.16	2.76	1.73	2020	1.99	1
11	CHEATHAM	3	38	SR	249	1		P	16.5	16.52	604.41	595.6	0.07	0.18	4.38	2019	1.68	0
12	CHESTER	4	48	SR	197	1		P	2.21	2.22	537.55	539.8	0.13	0.26	3.37	2019	1.56	0
12	CHESTER	4	48	SR	22	1		P	7.81	7.82	398.05	333.3	0.28	0.56	2.05	2019	1.39	0
13	CLAIBORNE	1	19	SR	63	1		P	11.53	18.15	96.55	81.6	0.33	2.94	1.51	2020	1.84	1
18	CUMBERLAND	2	27	SR	28	1		P	15.07	15.09	116.12	79.6	0.19	2.64	1.22	2020	1.54	1
19	DAVIDSON	3	37	SR	45	1		P	7.21	7.25	559.84	459.6	0.35	0.23	0.69	2020	0.5	1
19	DAVIDSON	3	37	SR	6	1		P	8.44	8.66	360.09	317.36	0.18	0.69	2.78	2020	1.83	1
19	DAVIDSON	3	37	SR	6	1		P	18.57	18.59	257.97	214.9	0.18	1.21	2.33	2020	1.91	1
23	DYER	4	47	SR	104	1		P	0	4.89	212.94	182.61	0.12	1.55	1.99	2019	1.85	0
23	DYER	4	47	SR	181	1		P	0	21.91	188.81	154.9	0.28	1.77	2.05	2019	1.96	0
24	FAYETTE	4	49	SR	76	1		P	6.9	6.91	159.47	132.9	0.4	2.08	1.9	2019	1.95	0
27	GIBSON	4	47	SR	76	1		P	1.06	1.08	370.95	344.4	0.1	0.65	2.99	2019	1.89	0

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27	GIBSON	4	47	SR	77	1		P	9	9.16	240.77	211.41	0.15	1.33	2.34	2019	1.98	0
33	HAMILTON	2	29	SR	316	1		P	0	0.23	322.17	272.61	0.2	0.85	2.35	2020	1.73	1
33	HAMILTON	2	29	SR	389	1		P	0	0.24	385.5	371.53	0.15	0.6	1.55	2020	1.17	1
33	HAMILTON	2	29	SR	8	1		P	8.5	8.83	408.06	359.87	0.21	0.53	2.89	2020	1.74	1
33	HAMILTON	2	29	SR	8	1		P	8.83	9.51	342.52	302.94	0.2	0.76	2.62	2020	1.81	0
35	HARDEMAN	4	48	SR	18	1		P	9.02	17.37	135.74	103.86	0.18	2.37	1.78	2019	1.94	0
35	HARDEMAN	4	48	SR	15	1		P	13.8	13.86	262.53	236.6	0.2	1.18	2	2020	1.71	1
35	HARDEMAN	4	48	SR	18	1		P	17.37	17.39	210.61	173.8	0.22	1.57	0.59	2020	0.79	1
35	HARDEMAN	4	48	SR	125	1		P	19.69	19.72	292.63	156	0.15	1	2.39	2020	1.84	1
36	HARDIN	4	48	SR	15	1		P	6.29	6.95	121.71	117.27	0.18	2.56	1.12	2020	1.44	1
36	HARDIN	4	48	SR	69	1		P	17.94	18	138.05	110.2	0.23	2.34	1.7	2019	1.87	0
38	HAYWOOD	4	48	SR	54	1	SB	P	0	0.06	333.2	295	0.15	0.8	1.77	2019	1.39	0
38	HAYWOOD	4	48	SR	54	1		P	8.62	8.68	190.88	151.2	0.24	1.75	1.75	2019	1.75	0
38	HAYWOOD	4	48	SR	54	1		P	8.68	12.64	126.03	107.46	0.21	2.5	1.79	2019	1.98	0
38	HAYWOOD	4	48	SR	1	1		P	10.08	10.09	169.35	138.6	0.19	1.97	1.93	2020	1.94	1
39	HENDERSON	4	48	SR	22	1		P	9.06	9.15	216.5	171.86	0.26	1.52	1.94	2020	1.8	1
39	HENDERSON	4	48	SR	22	1	ALT	P	10.55	10.57	282.03	239.5	0.18	1.06	1.83	2019	1.55	0
39	HENDERSON	4	48	SR	100	1		P	10.57	10.58	144.38	119.6	0.19	2.26	0.61	2019	0.9	0
39	HENDERSON	4	48	SR	104	1		P	17.6	18.8	214.12	179.28	0.17	1.54	1.47	2019	1.49	0
40	HENRY	4	47	SR	356	1		P	0	0.95	223.82	185.83	0.2	1.46	1.56	2020	1.53	1
40	HENRY	4	47	SR	69	1	ALT	P	6.21	12.54	128.22	95.13	0.17	2.47	1.68	2019	1.89	0
40	HENRY	4	47	SR	54	1		P	11.12	11.23	115.43	102.83	0.16	2.65	1.69	2020	1.93	1
40	HENRY	4	47	SR	76	1		P	13.39	13.58	195.08	176.65	0.18	1.71	1.44	2020	1.52	1
40	HENRY	4	47	SR	69	1		P	22.95	23.05	216.5	166.6	0.14	1.52	1.65	2019	1.61	0
41	HICKMAN	3	38	SR	50	1		P	17.68	17.69	524.07	515.3	0.09	0.28	3.95	2019	1.79	0
47	KNOX	1	18	SR	62	1		P	13.39	13.89	199.38	180.12	0.31	1.67	1.82	2020	1.77	1
48	LAKE	4	47	SR	79	1		P	0	6.67	352.35	214.83	0.16	0.72	2.56	2017	1.75	0

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48	LAKE	4	47	SR	212	1		P	2.42	2.43	804.15	679	0.16	0.06	2.82	2019	0.89	0
48	LAKE	4	47	SR	78	1		P	10.64	15.59	178.82	151.15	0.14	1.87	1.89	2019	1.88	0
48	LAKE	4	47	SR	78	1		P	21.25	21.285	200.48	155.2	0.12	1.66	2.07	2019	1.94	0
49	LAUDERDALE	4	49	SR	19	1		P	7.95	8	212.94	158.1	0.15	1.55	2.22	2019	1.99	0
49	LAUDERDALE	4	49	SR	19	1		P	8	12.4	184.75	155.98	0.16	1.81	1.87	2019	1.85	0
55	MCNAIRY	4	48	SR	69	1		P	0	0.26	131.94	112.2	0.19	2.42	1.37	2019	1.62	0
55	MCNAIRY	4	48	SR	15	1		P	11.56	12.3	131.19	113.19	0.18	2.43	1.42	2019	1.67	0
55	MCNAIRY	4	48	SR	57	1		P	14.4	14.64	250.6	222.89	0.18	1.26	2.28	2019	1.91	0
55	MCNAIRY	4	48	SR	57	1		P	19.79	19.8	71.73	53.3	0.29	3.37	0.9	2019	1.34	0
57	MADISON	4	48	SR	1	1	WB	P	0	0.33	231.45	202.69	0.21	1.4	1.85	2020	1.7	1
57	MADISON	4	48	SR	18	1		P	4.7	9.62	107.38	80.29	0.22	2.77	1.39	2019	1.71	0
57	MADISON	4	48	SR	20	1		P	9.39	9.42	275.3	251.27	0.33	1.1	1.1	2020	1.1	1
57	MADISON	4	48	SR	20	1		P	9.42	9.72	298.16	245.69	0.4	0.97	1.77	2020	1.48	1
57	MADISON	4	48	SR	18	1		P	9.81	9.83	463.83	409.2	0.19	0.39	3.26	2020	1.72	1
57	MADISON	4	48	SR	1	1		P	15.48	15.51	203.79	177.57	0.16	1.63	2.1	2020	1.95	1
58	MARION	2	28	SR	27	1		P	12.51	12.6	156.86	126.9	0.17	2.11	1.75	2020	1.85	0
60	MAURY	3	38	SR	99	1		P	16.4	16.82	335.48	326.29	0.29	0.79	2.28	2020	1.66	1
63	MONTGOMERY	3	38	SR	112	1		P	15	15.03	379.54	371.3	0.18	0.62	3.12	2019	1.92	0
64	MOORE	3	39	SR	129	1		P	0	0.05	711.28	686.8	0.07	0.1	3.21	2019	1.13	0
66	OBION	4	47	SR	3	1	SRC	P	0	0.02	437.81	374	0.11	0.45	3.48	2019	1.88	0
66	OBION	4	47	SR	78	1		P	0	0.99	106.07	98.49	0.17	2.79	1.71	2019	1.98	0
66	OBION	4	47	SR	184	1		P	0.17	6.08	202.68	163.35	0.14	1.64	1.82	2019	1.76	0
66	OBION	4	47	SR	184	1		P	6.08	6.11	239.41	178.47	0.13	1.34	1.62	2019	1.53	0
66	OBION	4	47	SR	184	1		P	8.83	8.86	326.5	302.9	0.13	0.83	2.77	2019	1.93	0
66	OBION	4	47	SR	183	1		P	9.37	14.17	183.75	130.31	0.19	1.82	1.98	2019	1.93	0
66	OBION	4	47	SR	5	1		P	16.93	17	382.5	384	0.18	0.61	2.05	2020	1.43	1
66	OBION	4	47	SR	21	1		P	22.3	22.36	349.85	325.3	0.13	0.73	2.52	2019	1.74	0



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66	OBION	4	47	SR	21	1		P	26.32	26.34	225.07	205.4	0.31	1.45	1.41	2019	1.42	0
67	OVERTON	2	27	SR	292	1		P	3.4	3.41	454.73	379.5	0.17	0.41	3.31	2020	1.77	0
70	POLK	2	29	SR	68	1		P	4.83	4.92	113.39	93.14	0.12	2.68	1.74	2020	1.98	0
71	PUTNAM	2	27	SR	135	1		P	8.39	8.53	180.77	155.34	0.19	1.85	1.62	2020	1.69	1
73	ROANE	1	19	SR	330	1		P	0	0.38	192.97	181.47	0.16	1.73	2	2020	1.91	0
73	ROANE	1	19	SR	327	1		P	5.71	5.73	459.22	449.2	0.19	0.4	3.36	2020	1.77	0
73	ROANE	1	19	SR	58	1		P	13.82	13.88	259.48	226.2	0.24	1.2	1.91	2020	1.66	1
75	RUTHERFORD	3	39	SR	452	1		P	0	0.91	150.1	125.17	0.36	2.19	1.91	2019	1.99	0
76	SCOTT	1	19	SR	29	1		P	12.71	12.74	118.2	98.5	0.14	2.61	1.55	2020	1.81	1
79	SHELBY	4	49	SR	4	1		P	0	2.1	166.6	149.32	0.34	2	1.83	2020	1.88	1
79	SHELBY	4	49	SR	15	1		P	0	0.11	294.45	259.12	0.27	0.99	2.35	2019	1.81	0
79	SHELBY	4	49	SR	300	1		P	0	1.66	206.04	192.73	0.12	1.61	2.06	2020	1.91	1
79	SHELBY	4	49	SR	57	1		P	1.21	1.22	352.35	249.9	0.31	0.72	2.69	2020	1.81	1
79	SHELBY	4	49	SR	3	1		P	9	9.9	292.63	248.82	0.33	1	2.43	2019	1.86	0
79	SHELBY	4	49	SR	1	1		P	9.34	12.04	227.59	201.58	0.19	1.43	2.15	2020	1.9	1
79	SHELBY	4	49	SR	177	1		P	10.14	10.83	171.2	148.59	0.19	1.95	1.78	2020	1.83	1
79	SHELBY	4	49	SR	3	1		P	10.77	11.46	376.63	351.94	0.22	0.63	2.1	2020	1.46	1
79	SHELBY	4	49	SR	3	1		P	11.46	11.66	330.94	419.5	0.26	0.81	1.9	2019	1.47	0
79	SHELBY	4	49	SR	3	1		P	11.66	13.18	220.12	244.54	0.2	1.49	2.06	2020	1.87	1
79	SHELBY	4	49	SR	15	1		P	16.12	16.18	93.48	78.7	0.22	2.99	1.07	2020	1.46	1
79	SHELBY	4	49	SR	15	1		P	16.18	16.3	88.09	72.78	0.21	3.08	0.97	2020	1.37	1
79	SHELBY	4	49	SR	57	1		P	17.83	20.13	196.15	193.5	0.26	1.7	2.11	2020	1.98	1
79	SHELBY	4	49	SR	1	1		P	19.93	20.04	169.35	142.96	0.32	1.97	0.75	2020	1	1
82	SULLIVAN	1	17	SR	355	1		P	0	2.08	138.83	122.39	0.28	2.33	1.84	2020	1.98	0
82	SULLIVAN	1	17	SR	355	1		P	2.08	2.26	222.58	210.84	0.17	1.47	1.5	2020	1.49	0
82	SULLIVAN	1	17	SR	93	1		P	6.21	7.34	123.14	109.97	0.21	2.54	1.61	2020	1.85	1
83	SUMNER	3	37	SR	6	1		P	14.88	14.9	99.04	78.9	0.12	2.9	0.8	2020	1.18	1

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84	TIPTON	4	49	SR	54	1		P	0	0.2	398.05	399.75	0.18	0.56	3.17	2020	1.88	1
92	WEAKLEY	4	47	SR	22	1	SRC	P	0	0.5	190.88	145.5	0.14	1.75	1.96	2019	1.89	0
92	WEAKLEY	4	47	SR	372	1		P	0	1.91	182.75	151.19	0.28	1.83	1.29	2019	1.43	0
92	WEAKLEY	4	47	SR	431	1		P	2.87	2.96	275.3	247.3	0.21	1.1	2.34	2019	1.87	0
92	WEAKLEY	4	47	SR	431	1		P	5.26	5.37	218.9	184.38	0.18	1.5	1.81	2019	1.71	0
92	WEAKLEY	4	47	SR	54	1		P	6.21	10.64	141.98	116.97	0.16	2.29	1.57	2019	1.76	0
92	WEAKLEY	4	47	SR	54	1		P	12.57	17.4	135.74	112.77	0.19	2.37	1.62	2019	1.82	0
92	WEAKLEY	4	47	SR	54	1		P	21.77	22.14	132.69	99.96	0.21	2.41	1.65	2019	1.85	0
94	WILLIAMSON	3	37	SR	246	1		P	12.97	13.5	173.08	146.11	0.13	1.93	2.01	2019	1.99	0