

Pavement Management 2016 Data



**Regions 1 & 2: Roughness, Rutting, & Distress
(Interstates and all State Routes)**

**Regions 3 and 4: Roughness, Rutting, & Distress
(Interstates and State Routes on the NHS)**



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Attached you will find the Tennessee Department of Transportation Pavement Management report for 2016. This information is tendered to assist TDOT personnel in determining the conditions of Tennessee's roadway network and to facilitate their making appropriate decisions in the maintenance and preservation of the roads. Roadway condition data is collected annually, as follows:

- Regions 1 and 2: Smoothness (IRI), rut depth, and distress measurements are collected on all Interstate and State Routes in even numbered years. In odd numbered years smoothness, rut depth and distress are collected only on Interstates and State Routes on the National Highway System.
- Regions 3 and 4: Smoothness (IRI), rut depth, and distress measurements are collected on all Interstate and State Routes in odd numbered years. In even numbered years smoothness, rut depth and distress are collected only on Interstates and State Routes on the National Highway System.

The smoothness data is transposed into the Pavement Smoothness Index (PSI). The rutting and distress values are used to calculate the Pavement Distress Index (PDI). Together, these two indices yield the Pavement Quality Index (PQI), an overall indication of the health of the roadway. Interstate smoothness is also reported as an annual performance measure.

The raw data and various indices are reported in one-mile increments, for simplicity and ease of use, but our Pavement Management System is capable of reporting in increments as small as 0.1 mile. If you have any comments, questions, or suggestions concerning this report, please contact James Maxwell at (615) 253-0012.

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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 acceptance testing and warranty jobs. 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), & Longitudinal Cracks In the Lane Joints.
- 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.

Conditional Information

The following chart represents the limits used to highlight pavement conditions. Pavement sections in fair and poor condition will be highlighted. Fair condition indicates that the pavement needs to be observed and monitored for further improvement. Poor condition indicates high-priority occurrences that need to be addressed soon in order to preserve the soundness of the roadway.

		PSI	PDI	PQI
Interstates	Fair	$2.6 \leq \text{PSI} < 3$	$1.5 \leq \text{PDI} < 3.35$	$1.75 \leq \text{PQI} < 3.25$
	Poor	$\text{PSI} < 2.6$	$\text{PDI} < 1.5$	$\text{PQI} < 1.75$

		PSI	PDI	PQI
State Routes	Fair	$2.2 \leq \text{PSI} < 2.6$	$1.6 \leq \text{PDI} < 3.6$	$1.75 \leq \text{PQI} < 3.25$
	Poor	$\text{PSI} < 2.2$	$\text{PDI} < 1.6$	$\text{PQI} < 1.75$

Note:

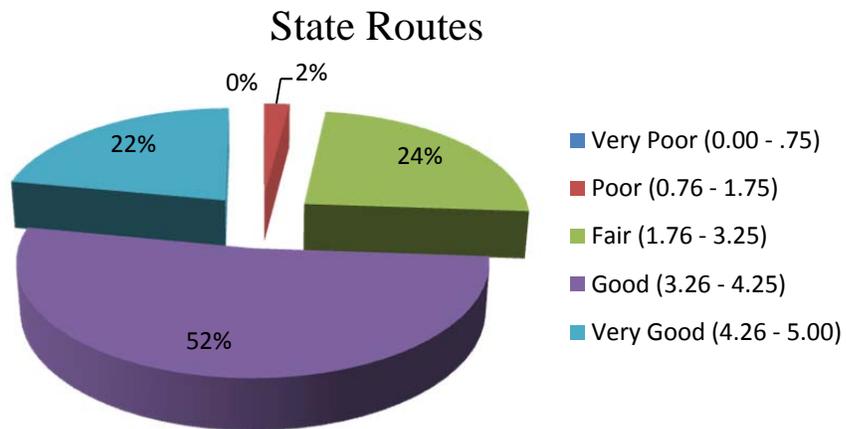
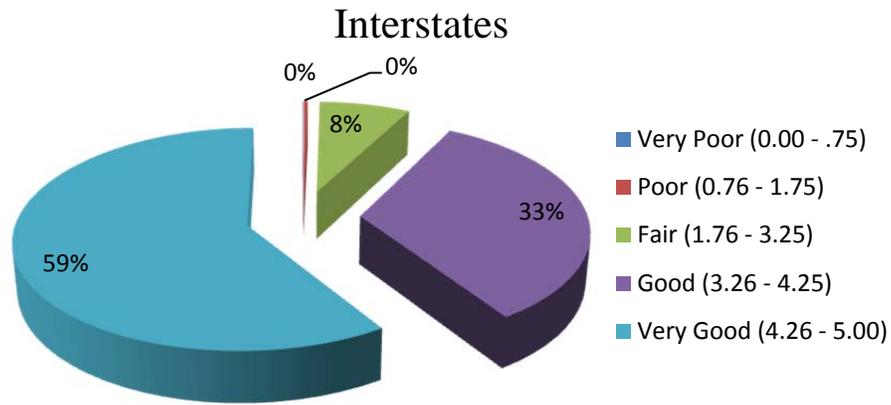
- 1) All conditions may not be captured due to the 1.0 mile reporting interval;
- 2) PSI, PDI, and PQI within the report will be highlighted as shown above.

1. Summary of Pavement Conditions over the State

1.1 PQI Values and Conditions

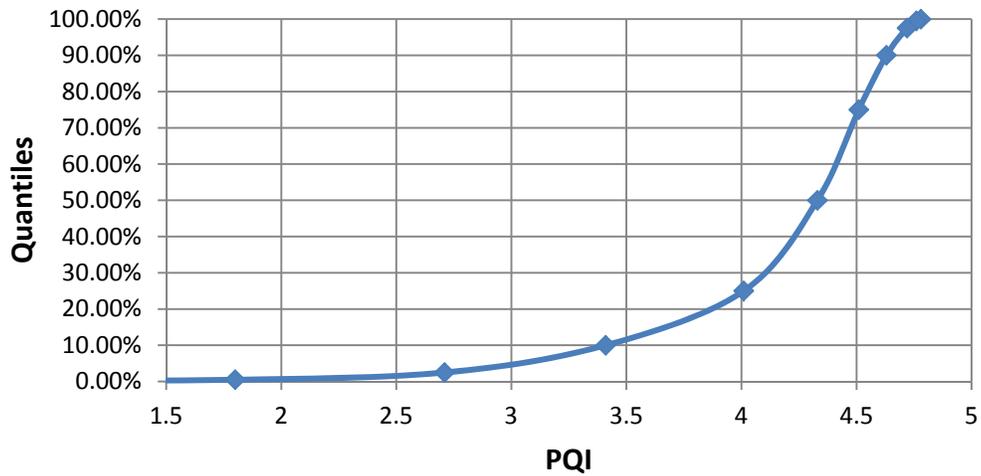
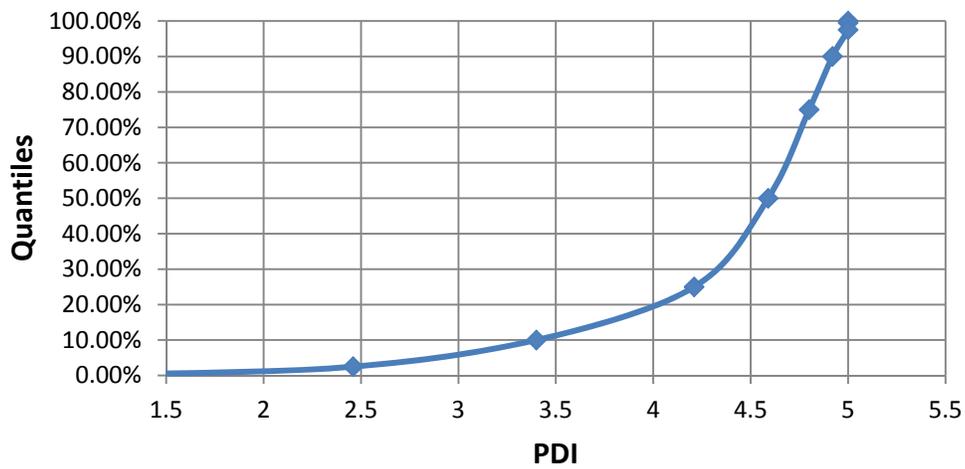
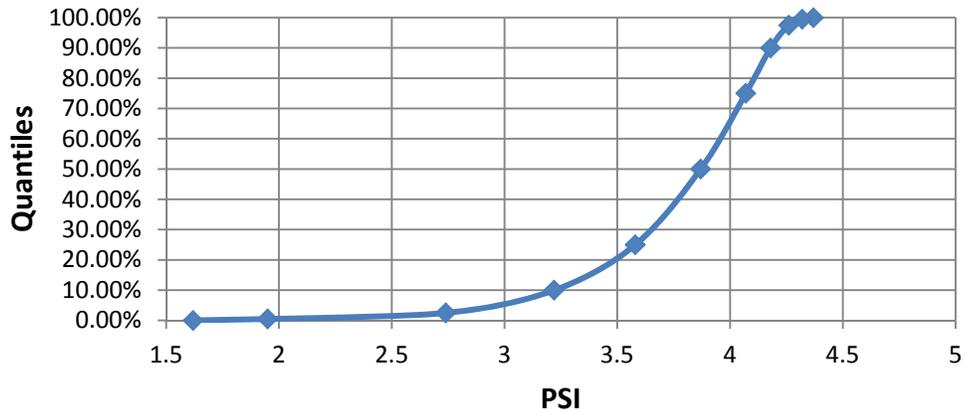
State Routes Average PQI of 3.639 for 7634 centerline miles	
Values	Percentage%
Very Poor (0.00 - 0.75)	0
Poor (0.76 - 1.75)	2
Fair (1.76 - 3.25)	24
Good (3.26 - 4.25)	52
Very Good (4.26 - 5.00)	22

Interstates Average PQI of 4.165 for 2362 centerline miles	
Values	Percentage%
Very Poor (0.00 - 0.75)	0
Poor (0.76 - 1.75)	0
Fair (1.76 - 3.25)	7
Good (3.26 - 4.50)	33
Very Good (4.51 - 5.00)	59

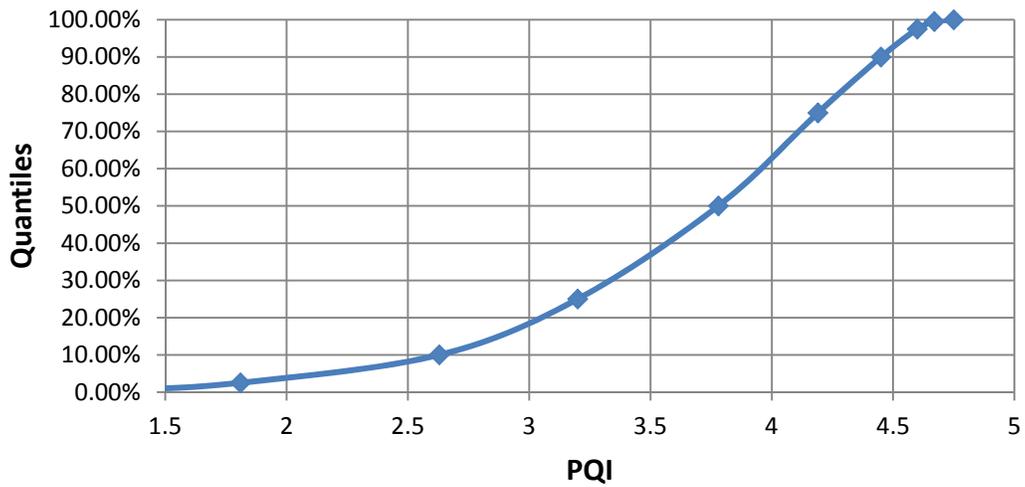
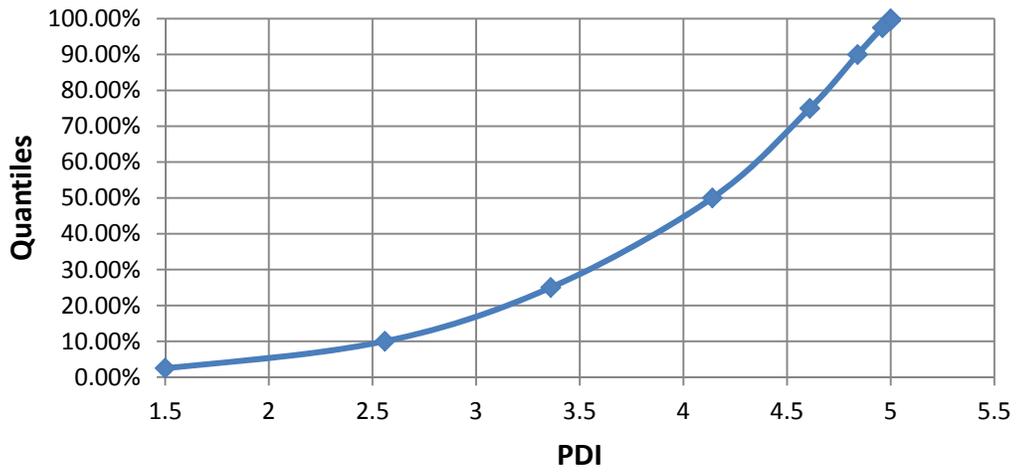
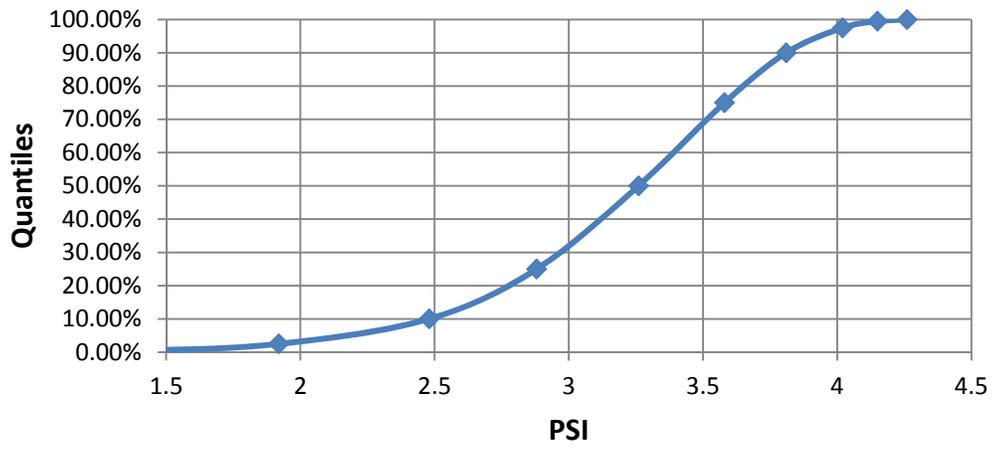


1.2 Distribution of Pavement Condition Indices

1.2.1 Interstates



1.2.2 State Routes



2. Summary of Pavement Condition Indices in Region 1

2016 Region 1 by District		Interstate			State Route		
District	County	Average PSI	Average PDI	Average PQI	Average PSI	Average PDI	Average PQI
17	10 CARTER	3.675	4.679	4.351	3.310	4.440	4.064
17	30 GREENE	4.064	4.440	4.310	3.144	3.498	3.366
17	32 HAMBLEN	4.191	4.782	4.595	2.968	3.496	3.313
17	34 HANCOCK				2.797	3.696	3.391
17	37 HAWKINS				2.976	3.882	3.612
17	46 JOHNSON				3.154	4.260	3.881
17	82 SULLIVAN	3.884	4.398	4.236	2.796	4.031	3.711
17	86 UNICOI	3.780	4.661	4.375	3.239	4.597	4.131
17	90 WASHINGTON	3.374	4.383	4.035	3.167	3.938	3.677
Average		3.849	4.501	4.286	3.037	3.929	3.651
18	1 ANDERSON	3.624	3.618	3.597	2.734	3.686	3.432
18	15 COCKE	3.777	4.105	3.995	2.833	3.883	3.517
18	29 GRAINGER				3.239	3.843	3.630
18	45 JEFFERSON	3.751	4.048	3.948	3.084	3.827	3.589
18	47 KNOX	3.577	3.844	3.744	2.776	3.866	3.564
18	78 SEVIER	4.024	4.140	4.093	2.629	4.208	3.793
18	87 UNION				2.959	3.889	3.570
Average		3.665	3.918	3.826	2.850	3.900	3.592
19	5 BLOUNT	3.355	2.482	2.676	2.992	4.119	3.746
19	7 CAMPBELL	3.761	4.277	4.100	3.087	3.419	3.320
19	13 CLAIBORNE				3.171	3.717	3.531
19	53 LOUDON	3.936	4.511	4.326	3.227	4.113	3.813
19	62 MONROE	3.491	4.283	4.025	3.104	4.274	3.868
19	65 MORGAN				3.323	3.976	3.743
19	73 ROANE	3.779	4.509	4.273	3.283	3.780	3.635
19	76 SCOTT				3.368	3.735	3.596
Average		3.783	4.356	4.165	3.169	3.942	3.683

2.1 PQI Values and Conditions in Region 1

Region 1 State Routes Average PQI of 3.642 for 2931 centerline miles	
Values	Percentage%
Very Poor (0.00 -0.75)	0
Poor (0.76 - 1.75)	1
Fair (1.76 - 3.25)	24
Good (3.26 - 4.25)	55
Very Good (4.26 - 5.00)	20

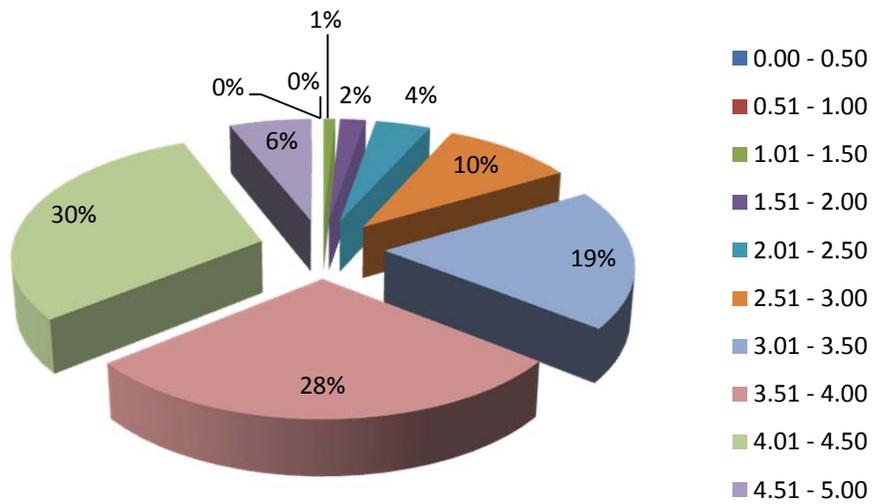
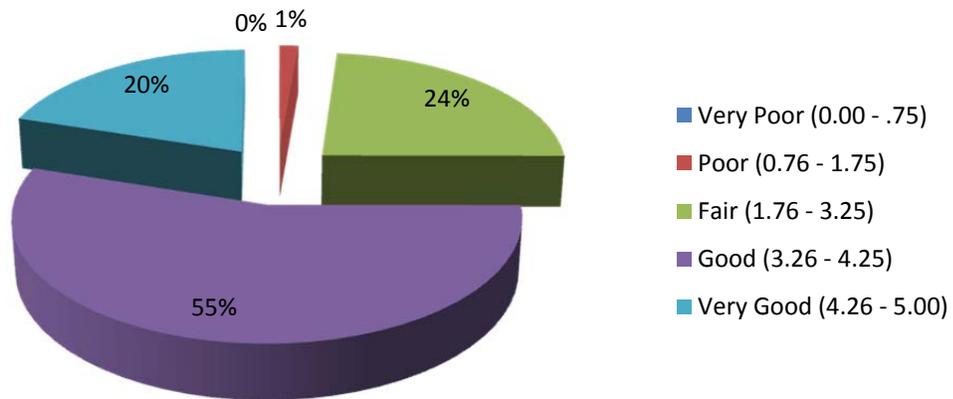
Region 1 Interstates Average PQI of 4.075 for 690 centerline miles	
Values	Percentage%
Very Poor (0.00 - 0.75)	0
Poor (0.76 - 1.75)	0
Fair (1.76 - 3.25)	11
Good (3.26 - 4.25)	38
Very Good (4.26 - 5.00)	51

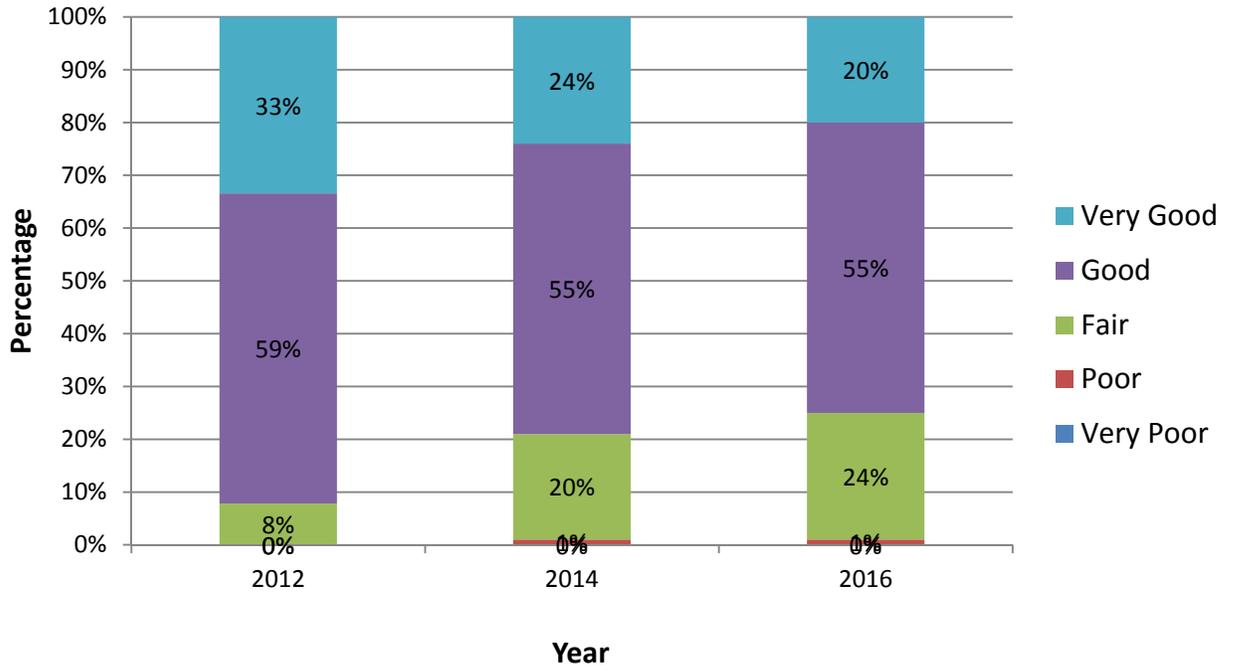
Region 1 State Routes Average PQI of 3.642 for 2931 centerline miles	
Values	Percentage%
0.00 - 0.50	0
0.51 - 1.00	0
1.01 - 1.50	1
1.51 - 2.00	2
2.01 - 2.50	4
2.51 - 3.00	10
3.01 - 3.50	19
3.51 - 4.00	29
4.01 - 4.50	30
4.51 - 5.00	6

Region 1 Interstates Average PQI of 4.075 for 690 centerline miles	
Values	Percentage%
0.00 - 0.50	0
0.51 - 1.00	0
1.01 - 1.50	0
1.51 - 2.00	0
2.01 - 2.50	2
2.51 - 3.00	4
3.01 - 3.50	11
3.51 - 4.00	15
4.01 - 4.50	48
4.51 - 5.00	21

2.1.1 PQI conditions for Region 1 State Routes

(Average PQI=3.642 for 2931 centerline miles)



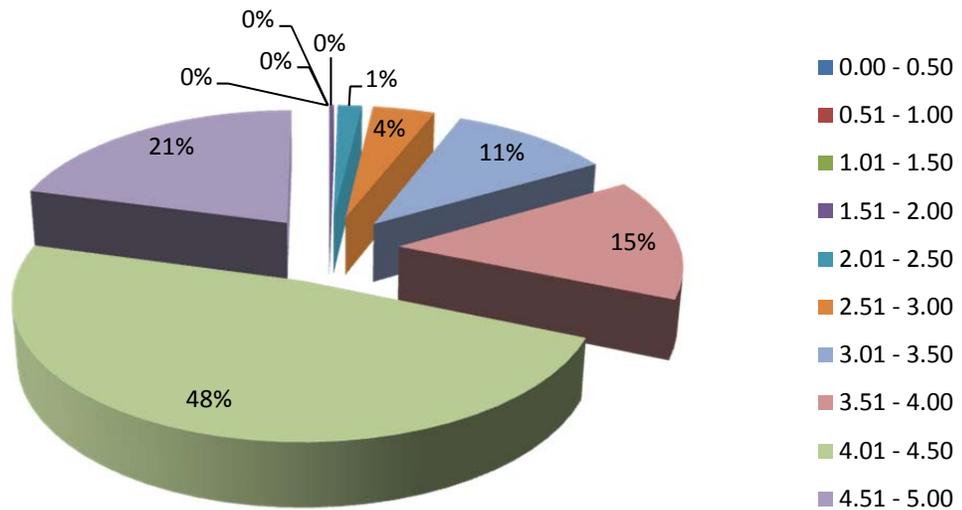
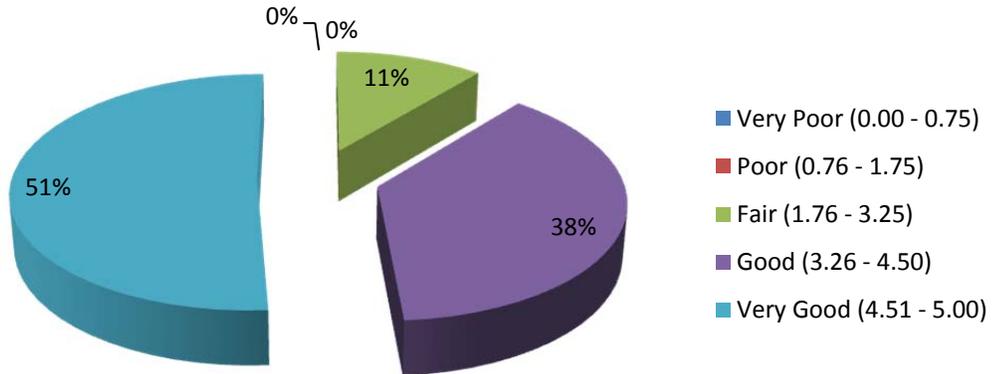


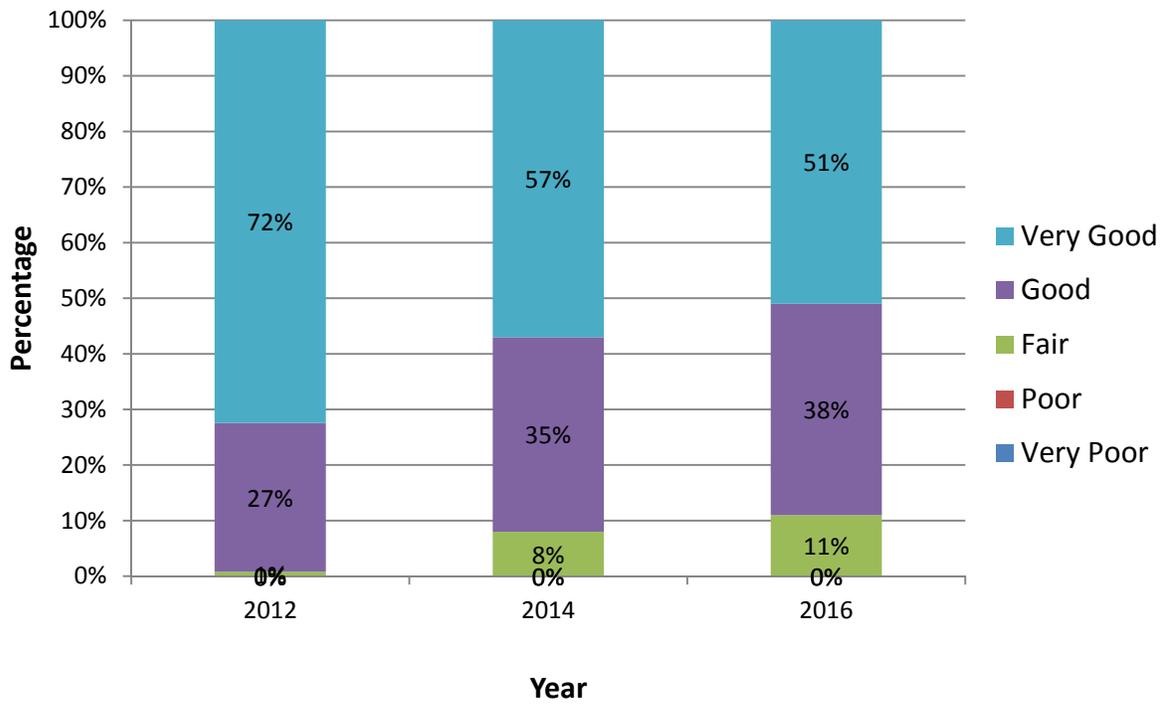
Change of PQI conditions in Region 1 over years (State Routes)

Note: 2926 centerline miles for 2012; 2939 centerline miles for 2014; and 2931 centerline miles for 2016.

2.1.2 PQI conditions for Region 1 Interstates

(Average PQI=4.075 for 690 centerline miles)





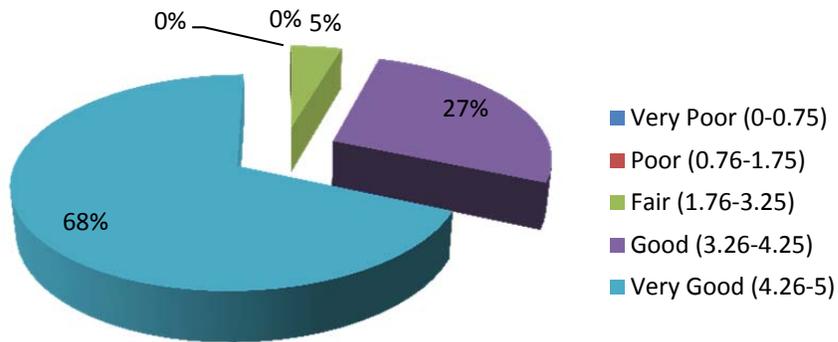
Change of PQI conditions in Region 1 over years (Interstates)

Note: 689 centerline miles for 2012; 690 centerline miles for 2014; and 690 centerline miles for 2016.

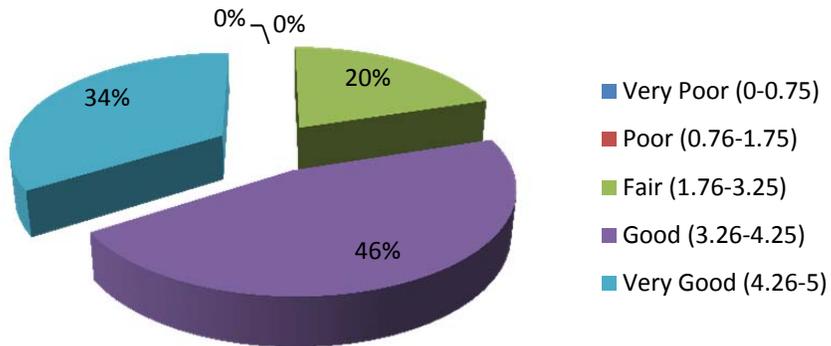
2.2 District PQI Values and Conditions in Region 1

2.2.1 PQI conditions for Interstates

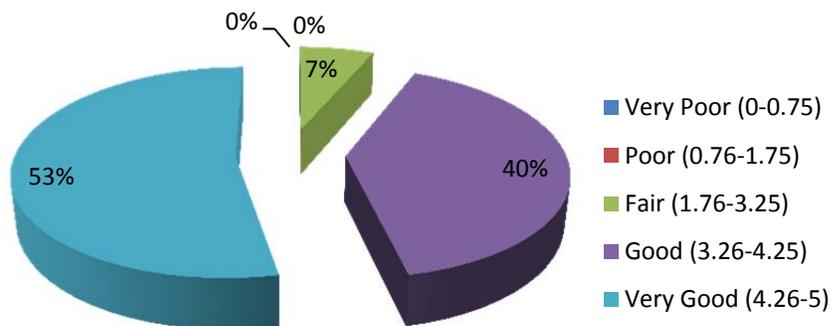
District 17 Interstates (245 miles)



District 18 Interstates (270 miles)

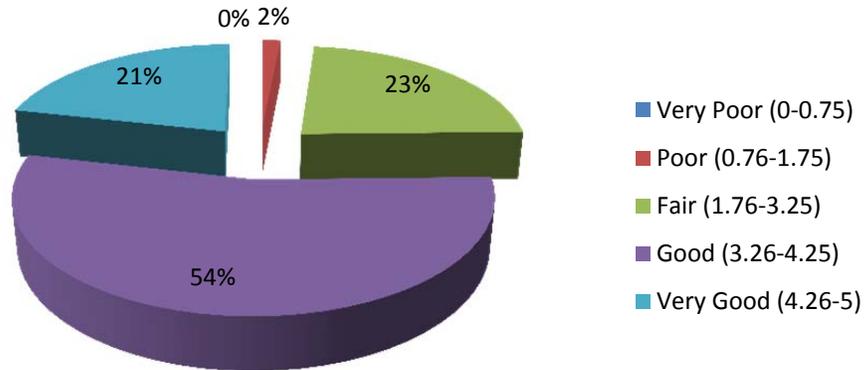


District 19 Interstates (175 miles)

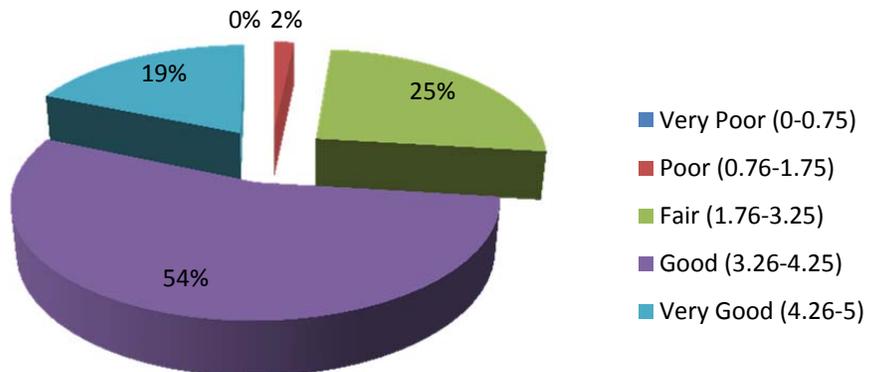


2.2.2 PQI conditions for State Routes

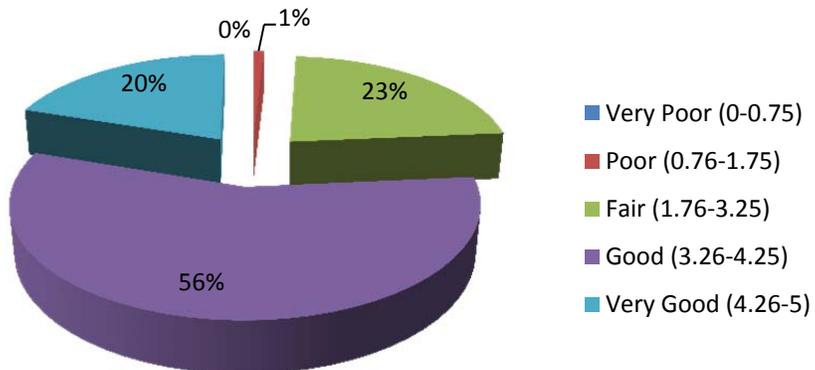
District 17 State Routes (1092 miles)



District 18 State Routes (932 miles)



District 19 State Routes (901 miles)



3. Summary of Pavement Condition Indices in Region 2

2016 Region 2 by District		Interstate			State Route		
District	County	Average PSI	Average PDI	Average PQI	Average PSI	Average PDI	Average PQI
27	14 CLAY				3.318	4.151	3.866
27	18 CUMBERLAND	4.058	4.323	4.238	3.387	3.901	3.739
27	21 DEKALB				3.268	4.385	4.006
27	25 FENTRESS				3.270	3.726	3.562
27	44 JACKSON				3.030	4.407	3.979
27	67 OVERTON				3.286	4.086	3.817
27	69 PICKETT				3.246	4.276	3.928
27	71 PUTNAM	4.150	4.764	4.571	3.237	4.238	3.897
27	93 WHITE				3.419	4.290	3.999
Average		4.105	4.548	4.408	3.250	4.144	3.854
28	4 BLEDSOE				3.373	3.785	3.613
28	8 CANNON				3.352	4.044	3.804
28	16 COFFEE	4.151	4.514	4.401	3.531	4.031	3.867
28	26 FRANKLIN				3.403	3.989	3.793
28	31 GRUNDY	4.057	4.479	4.350	3.373	3.672	3.546
28	58 MARION	3.991	4.625	4.421	3.205	3.979	3.717
28	77 SEQUATCHIE				3.330	3.210	3.174
28	88 VAN BUREN				3.229	4.097	3.797
28	89 WARREN				3.284	3.911	3.686
Average		4.067	4.561	4.405	3.321	3.895	3.695
29	6 BRADLEY	4.031	4.625	4.437	3.285	4.145	3.852
29	33 HAMILTON	3.465	4.686	4.269	3.032	4.123	3.739
29	54 MCMINN	4.030	4.713	4.495	3.313	3.788	3.615
29	61 MEIGS				3.322	3.781	3.623
29	70 POLK				3.199	4.194	3.856
29	72 RHEA				3.203	3.789	3.578
Average		3.791	4.680	4.385	3.176	3.998	3.718

3.1 PQI Values and Conditions in Region 2

2016 PQI Region 2 State Routes Average of 3.759 for 2750 centerline miles	
Values	Percentage%
Very Poor (0.00 - 0.75)	0
Poor (0.76 - 1.75)	1
Fair (1.76 - 3.25)	18
Good (3.26 - 4.25)	56
Very Good (4.26 - 5.00)	25

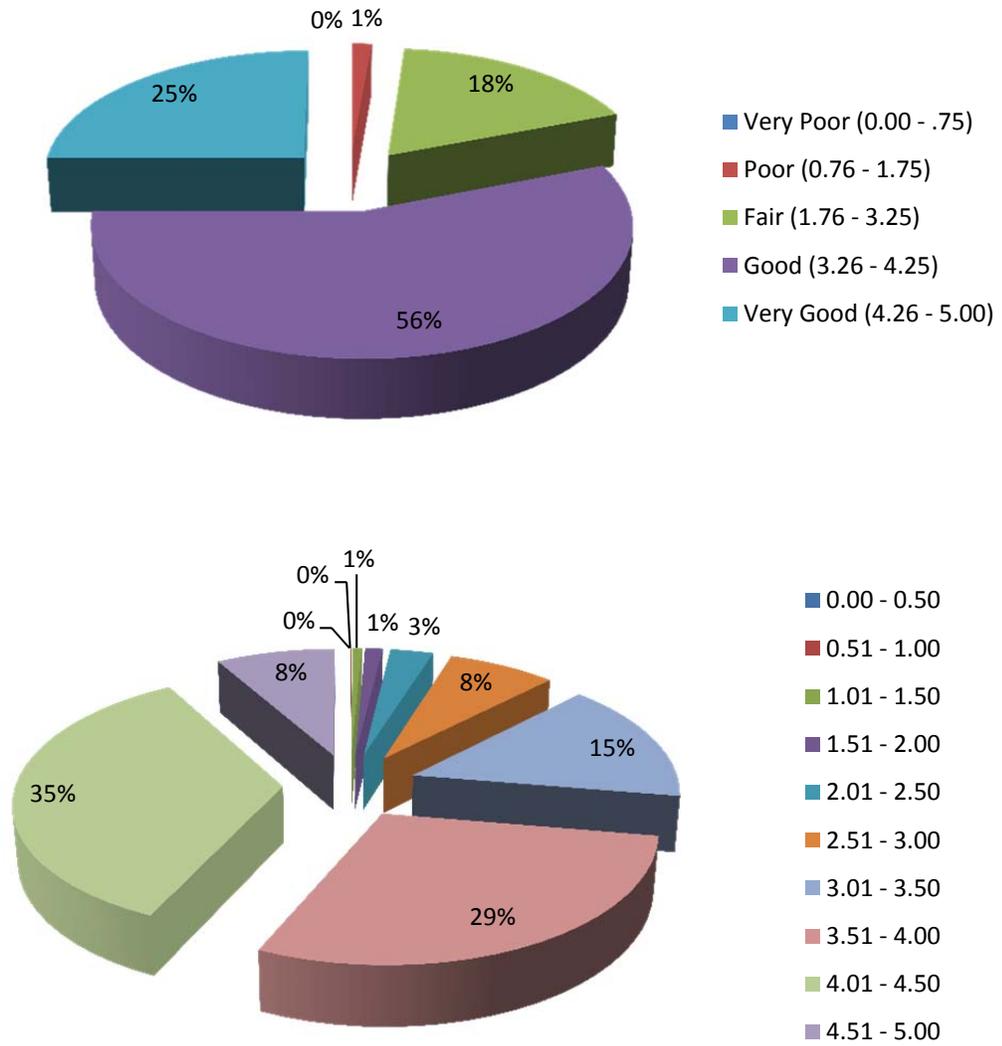
2016 PQI Region 2 Interstates Average of 4.399 for 440 centerline miles	
Values	Percentage%
Very Poor (0.00 - 0.75)	0
Poor (0.76 - 1.75)	0
Fair (1.76 - 3.25)	1
Good (3.26 - 4.25)	21
Very Good (4.26 - 5.00)	79

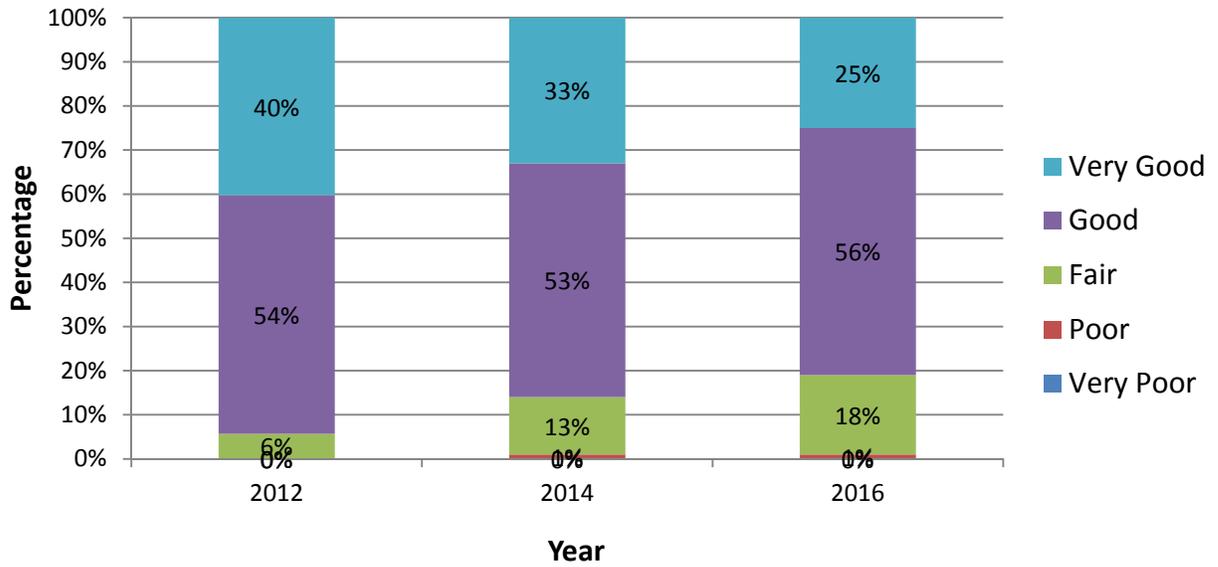
2016 PQI Region 2 State Routes Average of 3.759 for 2750 centerline miles	
Values	Percentage%
0.00 - 0.50	0
0.51 - 1.00	0
1.01 - 1.50	1
1.51 - 2.00	1
2.01 - 2.50	3
2.51 - 3.00	7
3.01 - 3.50	15
3.51 - 4.00	29
4.01 - 4.50	35
4.51 - 5.00	8

2016 PQI Region 2 Interstates Average of 4.399 for 440 centerline miles	
Values	Percentage%
0.00 - 0.50	0
0.51 - 1.00	0
1.01 - 1.50	0
1.51 - 2.00	0
2.01 - 2.50	0
2.51 - 3.00	0
3.01 - 3.50	2
3.51 - 4.00	6
4.01 - 4.50	47
4.51 - 5.00	45

3.1.1 PQI conditions for Region 2 State Routes

(Average PQI=3.759 for 2750 centerline miles)



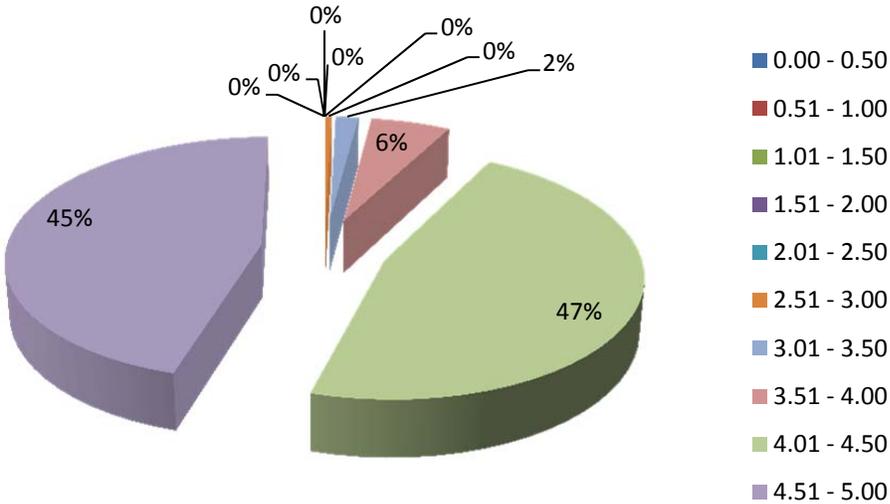
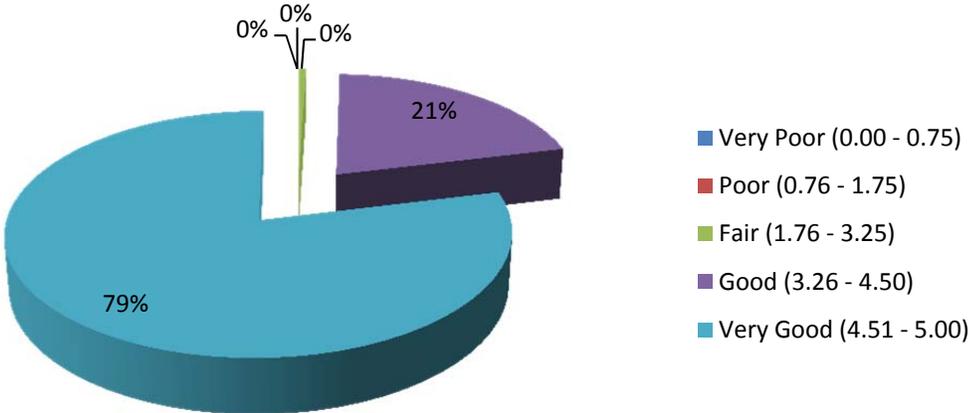


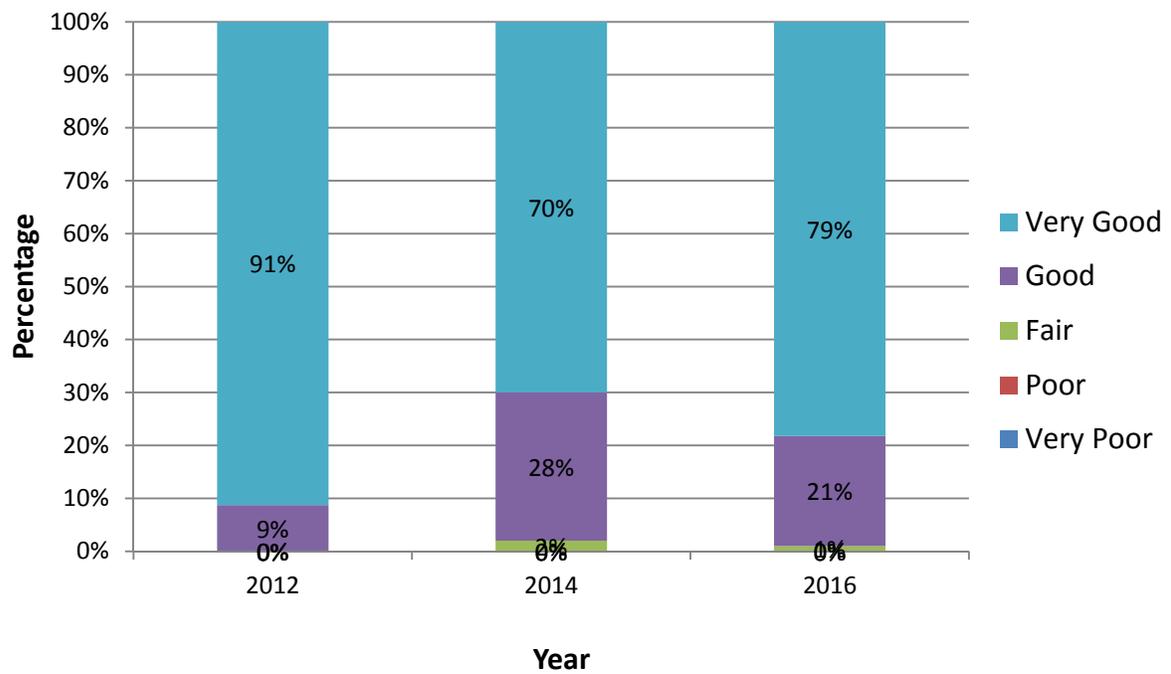
Change of PQI conditions in Region 2 over years
(State Routes)

Note: 2727 centerline miles for 2012; 2747 centerline miles for 2014; and 2750 centerline miles for 2016.

3.1.2 PQI conditions for Region 2 Interstates

(Average PQI=4.399 for 440 centerline miles)





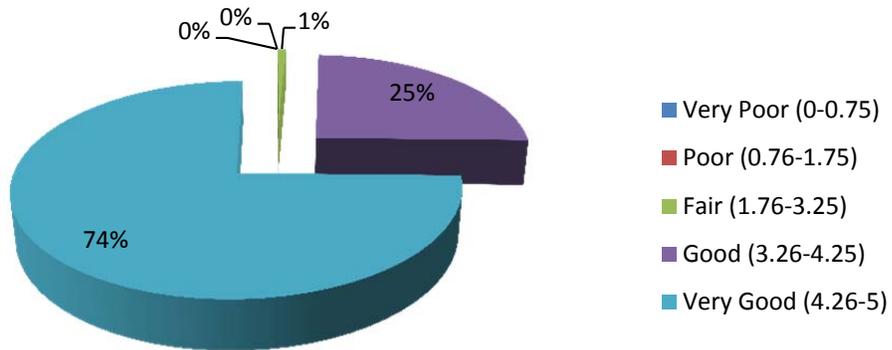
Change of PQI conditions in Region 2 over years
(Interstates)

Note: **219** centerline miles for 2012; 439 centerline miles for 2014; and 439 centerline miles for 2016.

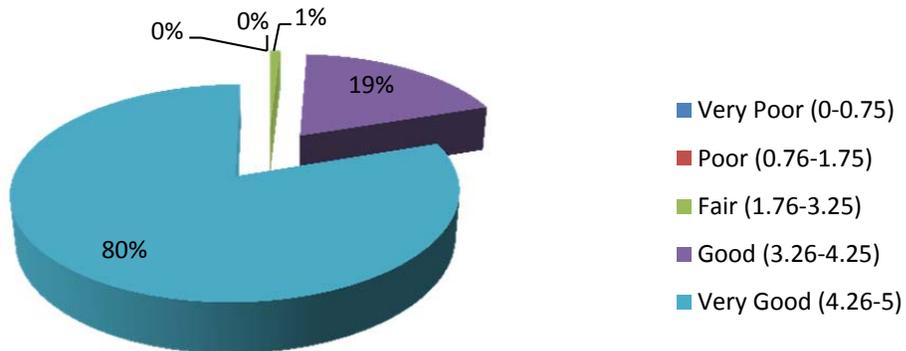
3.2 District PQI Values and Conditions in Region 2

3.2.1 PQI conditions for Interstates

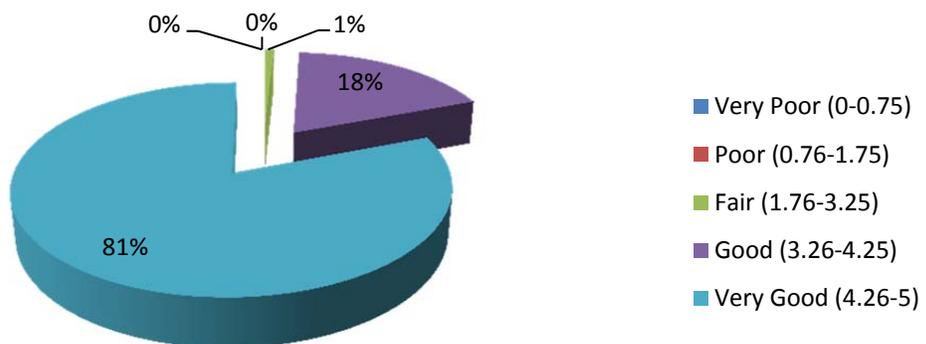
District 27 Interstates (146 miles)



District 28 Interstates (140 miles)

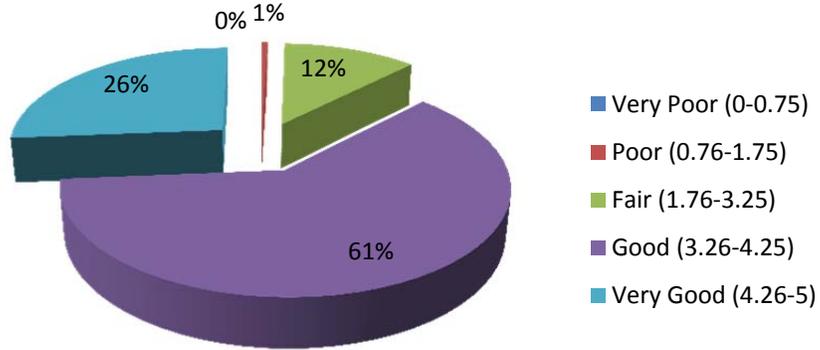


District 29 Interstates (154 miles)

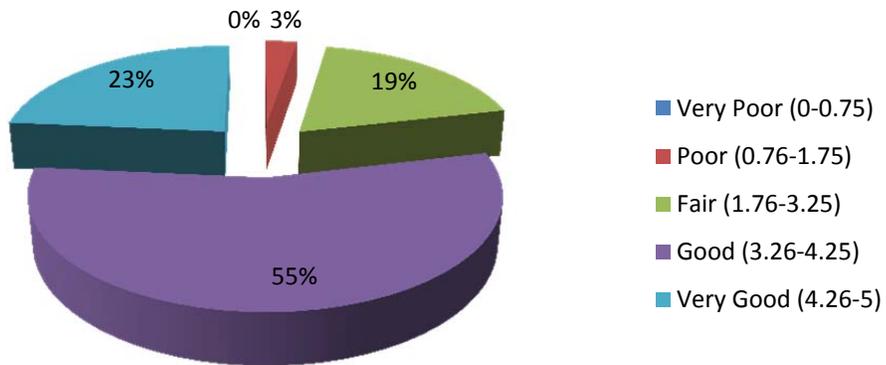


3.2.3 PQI conditions for in State Routes

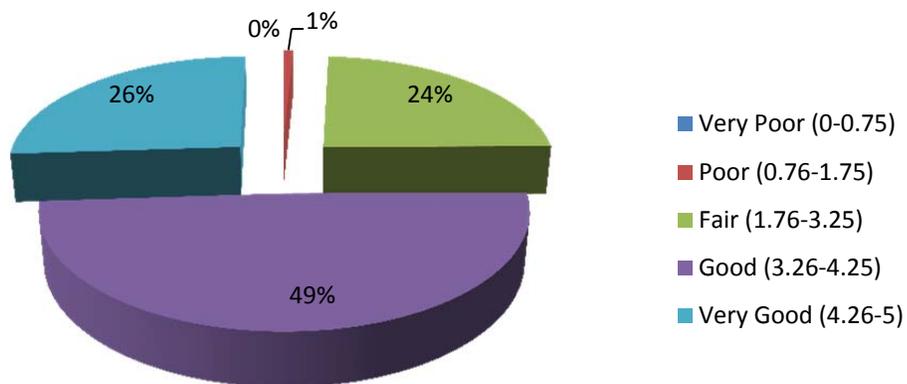
District 27 State Routes (993 miles)



District 28 State Routes (1002 miles)



District 29 State Routes (756 miles)



4. Summary of Pavement Condition Indices in Region 3

2016 Region 3 by District		Interstate			NHS State Route		
District	County	Average PSI	Average PDI	Average PQI	Average PSI	Average PDI	Average PQI
37	19 DAVIDSON	3.411	4.408	4.064	2.896	4.074	3.659
37	56 MACON				3.458	4.098	3.890
37	80 SMITH	3.988	4.806	4.542			
37	83 SUMNER	3.638	4.149	3.987	3.350	3.835	3.667
37	85 TROUSDALE				3.407	3.489	3.453
37	94 WILLIAMSON	3.640	4.028	3.896	2.895	3.996	3.620
37	95 WILSON	3.829	4.681	4.406	3.146	4.274	3.894
Average		3.606	4.369	4.112	3.108	4.008	3.696
38	11 CHEATHAM	3.895	4.386	4.230	3.784	4.414	4.213
38	22 DICKSON	3.925	4.532	4.327	3.477	3.669	3.587
38	41 HICKMAN	3.918	4.243	4.124			
38	42 HOUSTON						
38	43 HUMPHREYS	3.769	4.887	4.518			
38	60 MAURY	3.849	4.562	4.334	3.457	4.167	3.931
38	63 MONTGOMERY	4.049	4.812	4.568	3.557	4.147	3.951
38	74 ROBERTSON	3.765	4.339	4.153	3.468	3.764	3.653
38	81 STEWART				3.479	3.829	3.710
Average		3.875	4.521	4.309	3.503	4.040	3.858
39	2 BEDFORD	3.610	4.645	4.305	3.370	4.074	3.827
39	28 GILES	3.767	4.800	4.462	3.444	4.412	4.091
39	50 LAWRENCE				3.593	4.376	4.116
39	51 LEWIS				3.432	4.152	3.889
39	52 LINCOLN				3.533	4.234	4.003
39	59 MARSHALL	4.103	4.956	4.684			
39	64 MOORE				3.717	4.836	4.468
39	68 PERRY				3.022	2.797	2.843
39	75 RUTHERFORD	3.742	4.490	4.249	3.369	3.979	3.770
39	91 WAYNE				3.525	4.091	3.890
Average		3.799	4.635	4.365	3.453	4.124	3.894

Note: All state routes in this table are on the NHS.

4.1 PQI Values and Conditions in Region 3

2016 PQI Region 3 NHS State Routes Average of 3.808 for 954 centerline miles	
Values	Percentage %
Very Poor (0.00 - 0.75)	0
Poor (0.76 - 1.75)	0
Fair (1.76 - 3.25)	19
Good (3.26 - 4.25)	51
Very Good (4.26 - 5.00)	29

2016 PQI Region 3 Interstates Average of 4.223 for 862 centerline miles	
Values	Percentage %
Very Poor (0.00 - 0.75)	0
Poor (0.76 - 1.75)	1
Fair (1.76 - 3.25)	4
Good (3.26 - 4.25)	30
Very Good (4.26 - 5.00)	65

2016 PQI Region 3 NHS State Routes Average of 3.808 for 954 centerline miles	
Values	Percentage %
0.00 - 0.50	0
0.51 - 1.00	0
1.01 - 1.50	0
1.51 - 2.00	1
2.01 - 2.50	2
2.51 - 3.00	9
3.01 - 3.50	17
3.51 - 4.00	27
4.01 - 4.50	32
4.51 - 5.00	12

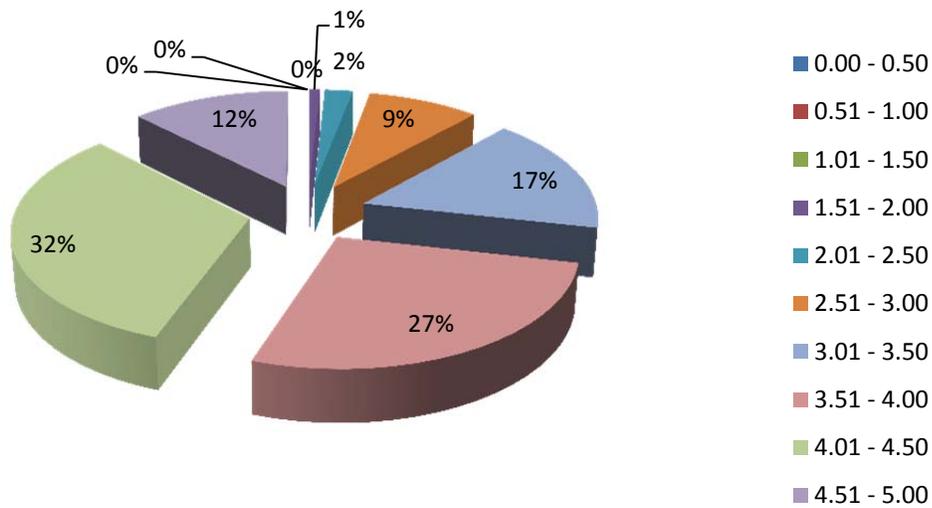
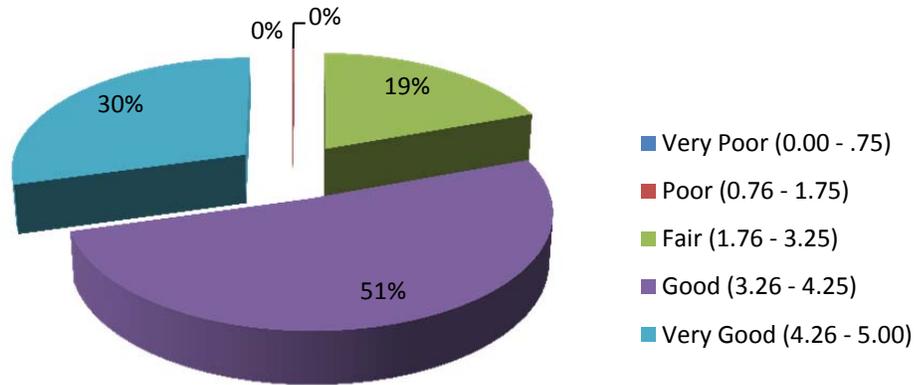
2016 PQI Region 3 Interstates Average of 4.223 for 862 centerline miles	
Values	Percentage %
0.00 - 0.50	0
0.51 - 1.00	0
1.01 - 1.50	0
1.51 - 2.00	1
2.01 - 2.50	1
2.51 - 3.00	2
3.01 - 3.50	3
3.51 - 4.00	11
4.01 - 4.50	54
4.51 - 5.00	28

Note: All state routes in this table are on the NHS.

4.1.1 PQI conditions for Region 3 State Routes

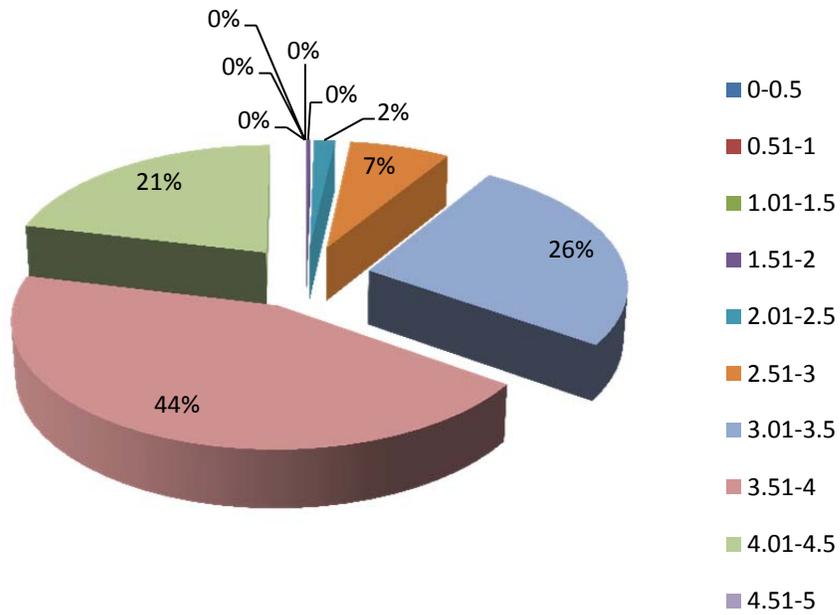
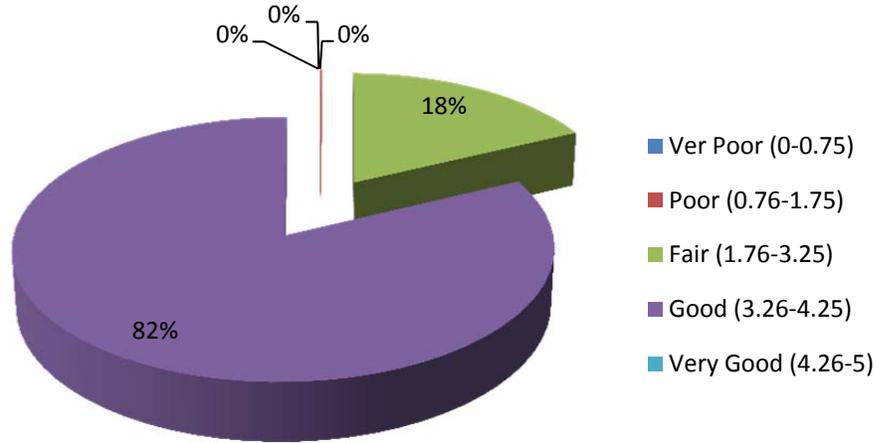
2016 NHS State route in Region 3

(Average PQI=3.808 for 954 centerline miles, 2016 NHS state Route)



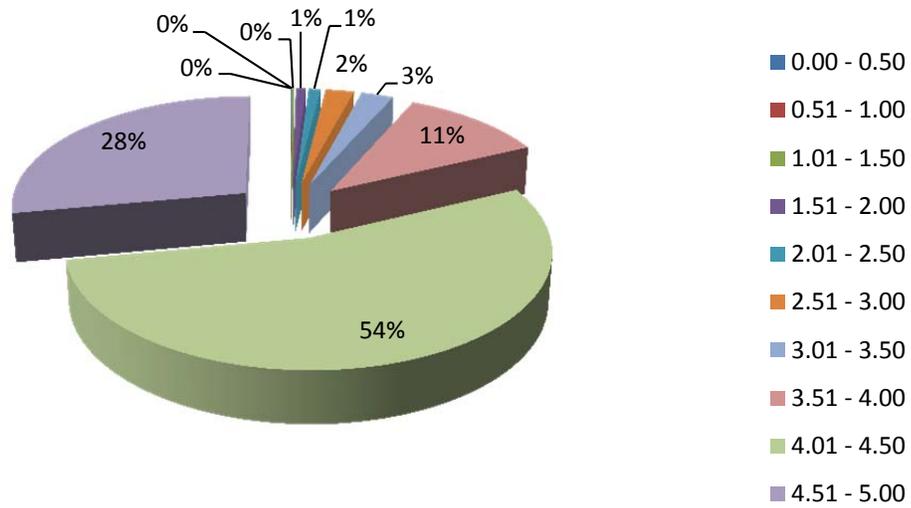
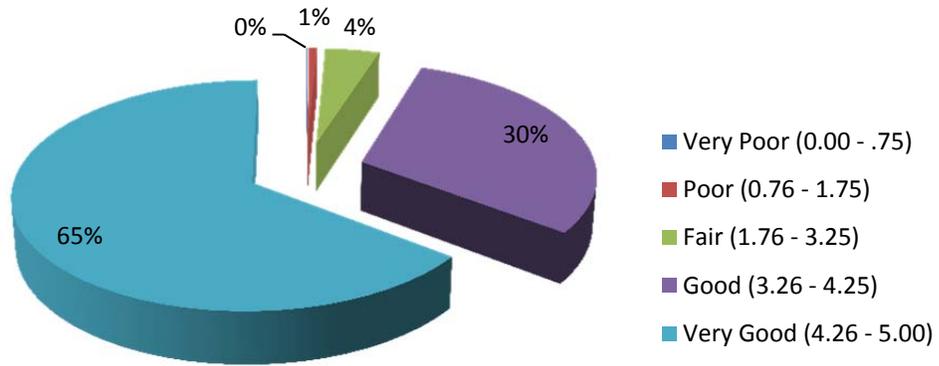
2015 non-NHS State route in Region 3

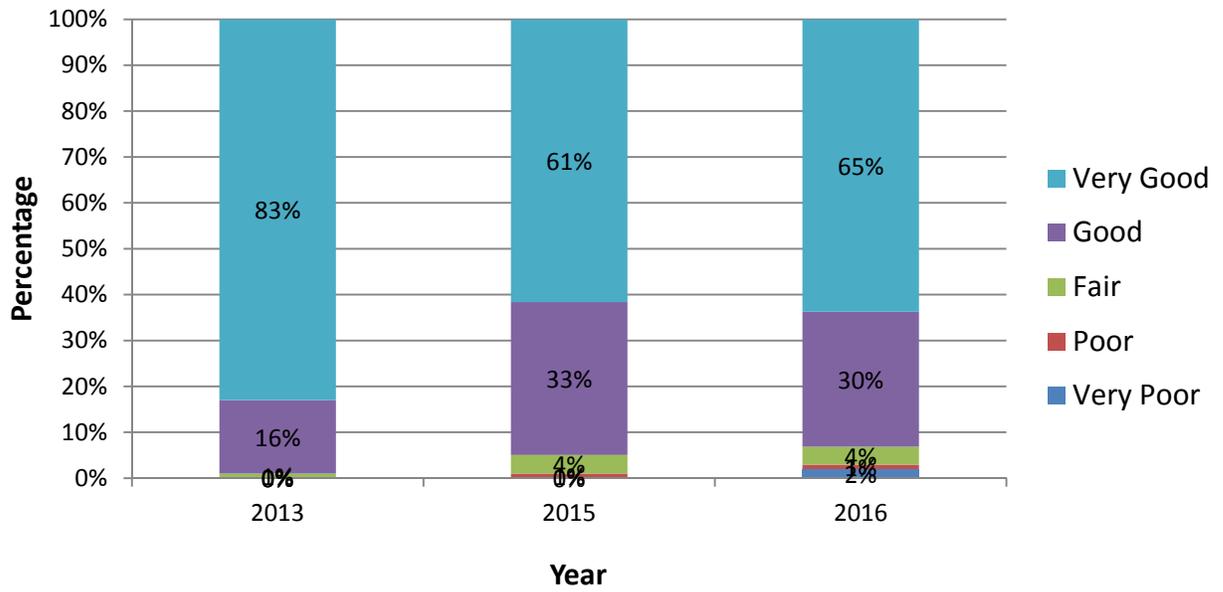
(Average PQI=3.631 for 632 centerline miles, 2015 non-NHS state Route)



4.1.2PQI conditions for Region 3 Interstates

(Average PQI=4.223 for 862 centerline miles)





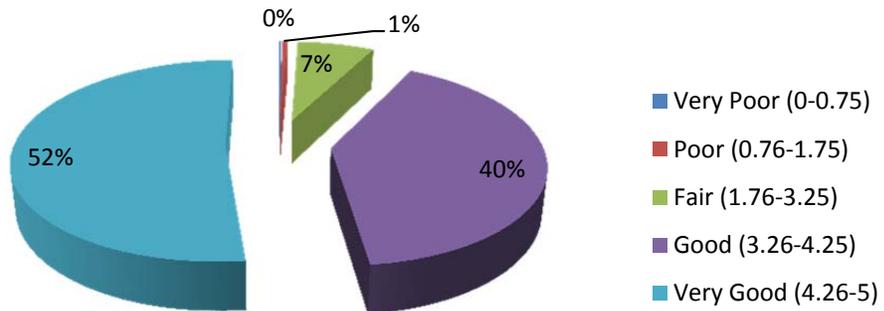
Change of PQI conditions in Region 3 over years
(Interstates)

Note: 708 centerline miles for 2013; 708 centerline miles for 2015; and 862 centerline miles for 2016.

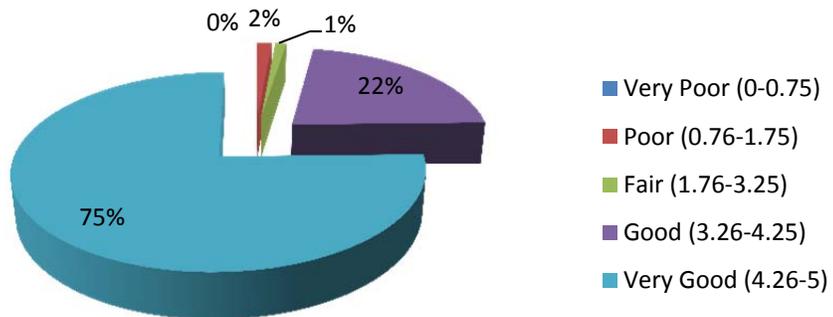
4.2 District PQI Values and conditions in Region 3

4.2.1 PQI conditions for Interstates

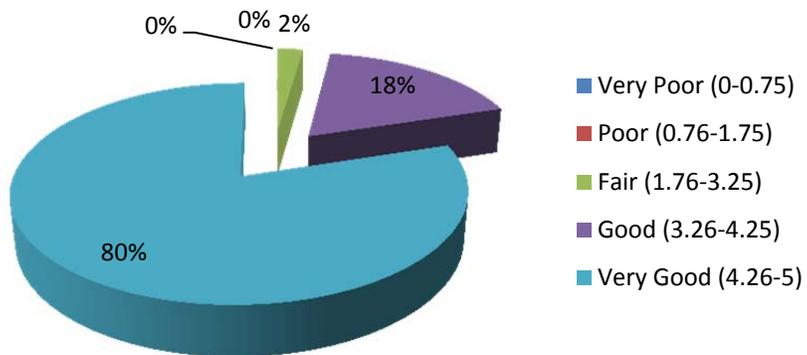
District 37 Interstates (427 miles)



District 38 Interstates (255 miles)

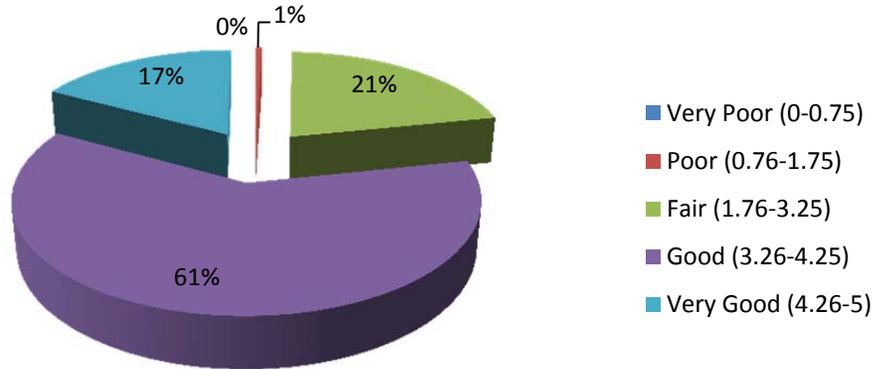


District 39 Interstates (179 miles)

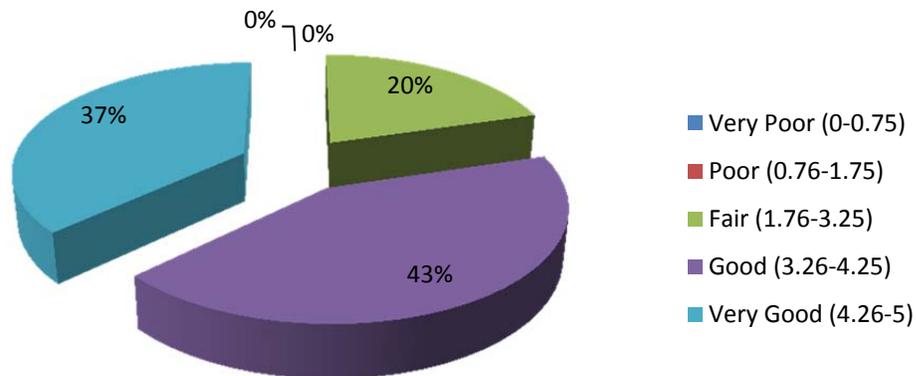


4.2.2 PQI conditions for State Routes

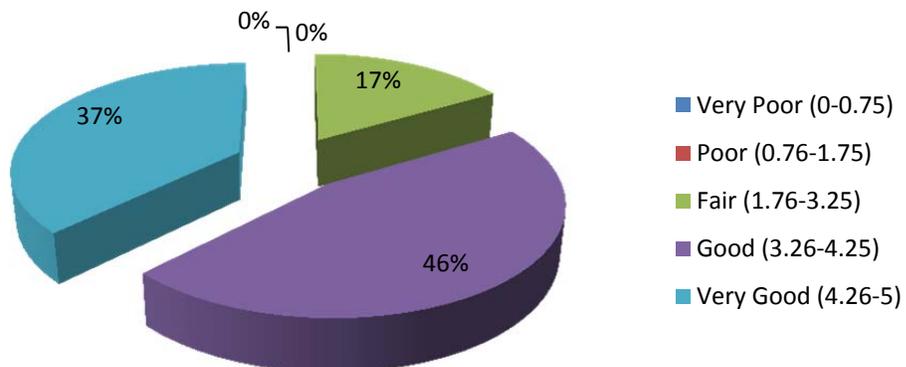
District 37 State Routes (374 miles)



District 38 State Routes (218 miles)



District 39 State Routes (362 miles)



5. Summary of Pavement Condition Indices in Region 4

2016 Region 4 by District		Interstate			NHS State Route		
District	County	Average PSI	Average PDI	Average PQI	Average PSI	Average PDI	Average PQI
47	3 BENTON	3.987	4.878	4.589	3.150	2.119	2.298
47	9 CARROLL	4.045	3.755	3.835	3.055	3.195	3.105
47	23 DYER	3.839	3.758	3.765	3.287	2.493	2.658
47	27 GIBSON				2.987	3.468	3.300
47	40 HENRY				3.398	2.473	2.674
47	48 LAKE						
47	66 OBION				3.160	3.352	3.261
47	92 WEAKLEY				3.375	3.375	3.341
Average		3.896	4.145	4.052	3.205	2.994	3.004
48	12 CHESTER				4.020	4.776	4.534
48	17 CROCKETT				3.387	3.375	3.355
48	20 DECATUR	4.044	3.390	3.565	3.546	4.359	4.083
48	35 HARDEMAN				3.187	3.673	3.512
48	36 HARDIN				2.849	2.897	2.863
48	38 HAYWOOD	3.747	3.891	3.825	2.483	2.673	2.605
48	39 HENDERSON	3.962	4.286	4.169	3.112	3.000	2.928
48	55 MCNAIRY				3.130	3.265	3.173
48	57 MADISON	3.690	3.796	3.714	2.951	3.158	3.059
Average		3.813	3.942	3.873	3.132	3.366	3.254
49	24 FAYETTE	3.714	3.524	3.566	3.470	3.770	3.652
49	49 LAUDERDALE				3.256	2.676	2.778
49	79 SHELBY	3.283	4.427	4.035	2.609	3.501	3.174
49	84 TIPTON				2.962	3.095	3.021
Average		3.372	4.242	3.939	2.821	3.394	3.166

Note: All state routes in this table are on the NHS.

5.1 PQI Values and Conditions in Region 4

2016 PQI Region 4 NHS State Routes Average of 3.139 for 998 centerline miles	
Values	Percentage %
Very Poor (0.00 - 0.75)	0
Poor (0.76 - 1.75)	8
Fair (1.76 - 3.25)	47
Good (3.26 - 4.25)	33
Very Good (4.26 - 5.00)	12

2016 PQI Region 3 Interstates Average of 3.925 for 372 centerline miles	
Values	Percentage %
Very Poor (0.00 - 0.75)	0
Poor (0.76 - 1.75)	1
Fair (1.76 - 3.25)	16
Good (3.26 - 4.25)	45
Very Good (4.26 - 5.00)	38

2016 PQI Region 4 NHS State Routes Average of 3.139 for 998 centerline miles	
Values	Percentage %
0.00 - 0.50	0
0.51 - 1.00	0
1.01 - 1.50	4
1.51 - 2.00	8
2.01 - 2.50	12
2.51 - 3.00	19
3.01 - 3.50	20
3.51 - 4.00	16
4.01 - 4.50	14
4.51 - 5.00	7

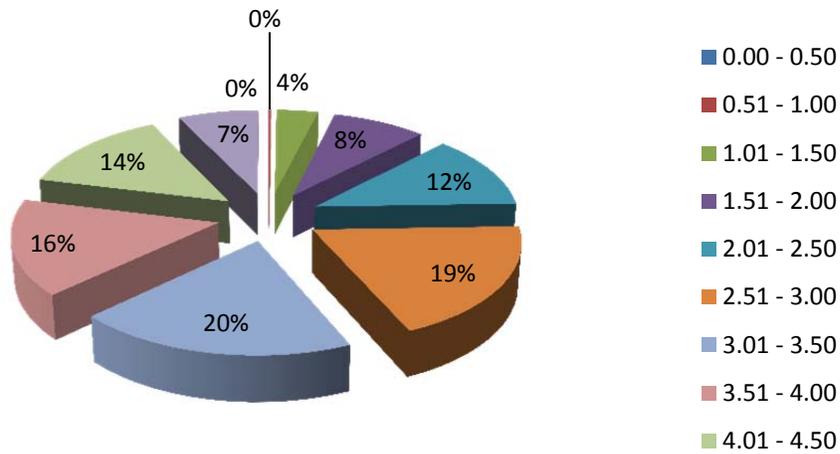
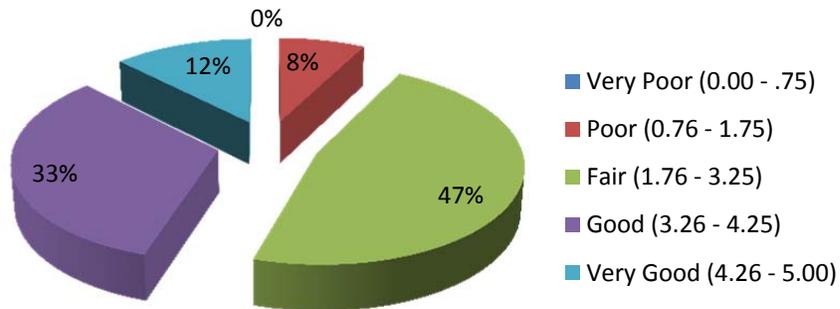
2016 PQI Region 3 Interstates Average of 3.925 for 372 centerline miles	
Values	Percentage %
0.00 - 0.50	0
0.51 - 1.00	0
1.01 - 1.50	0
1.51 - 2.00	1
2.01 - 2.50	2
2.51 - 3.00	6
3.01 - 3.50	14
3.51 - 4.00	23
4.01 - 4.50	31
4.51 - 5.00	23

Note: All state routes in this table are on the NHS.

5.1.1 PQI conditions for Region 4 State Routes

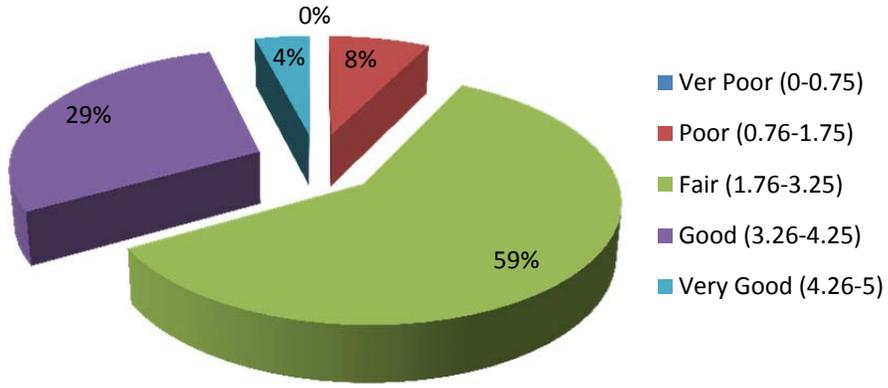
2016 NHS State route in Region 4

(Average PQI=3.139 for 997 centerline miles, 2016 NHS state Route)

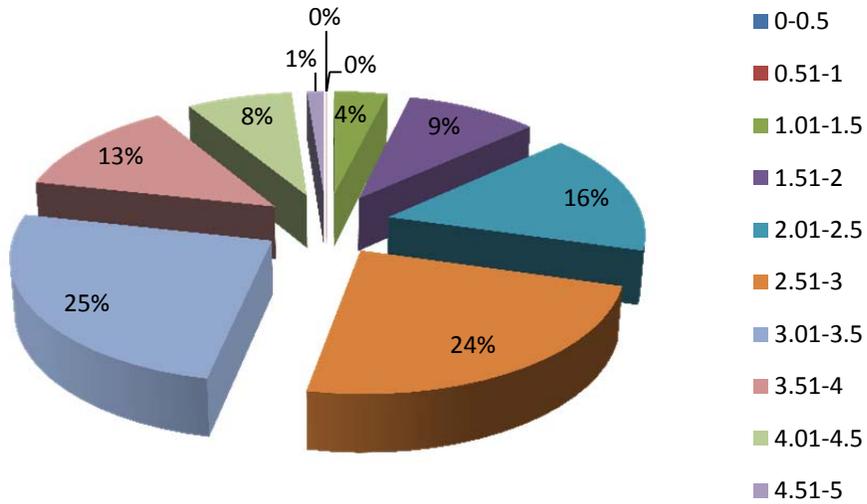


2015 non-NHS State route in Region 4

Average PQI=2.917 for 2380 centerline miles

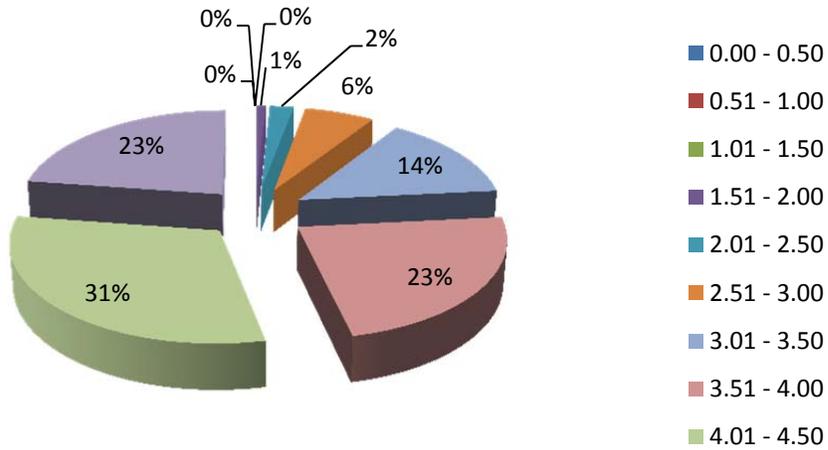
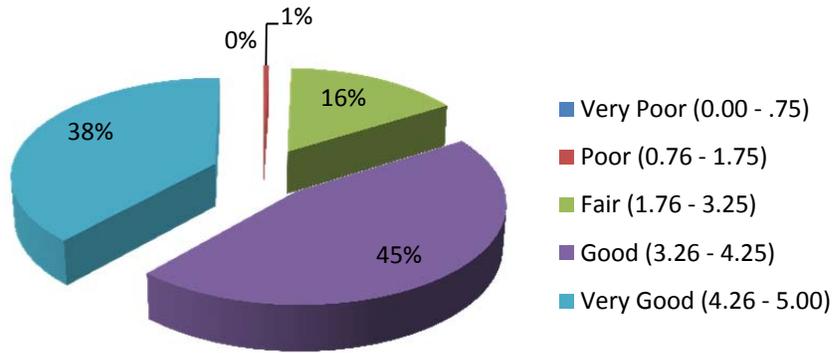


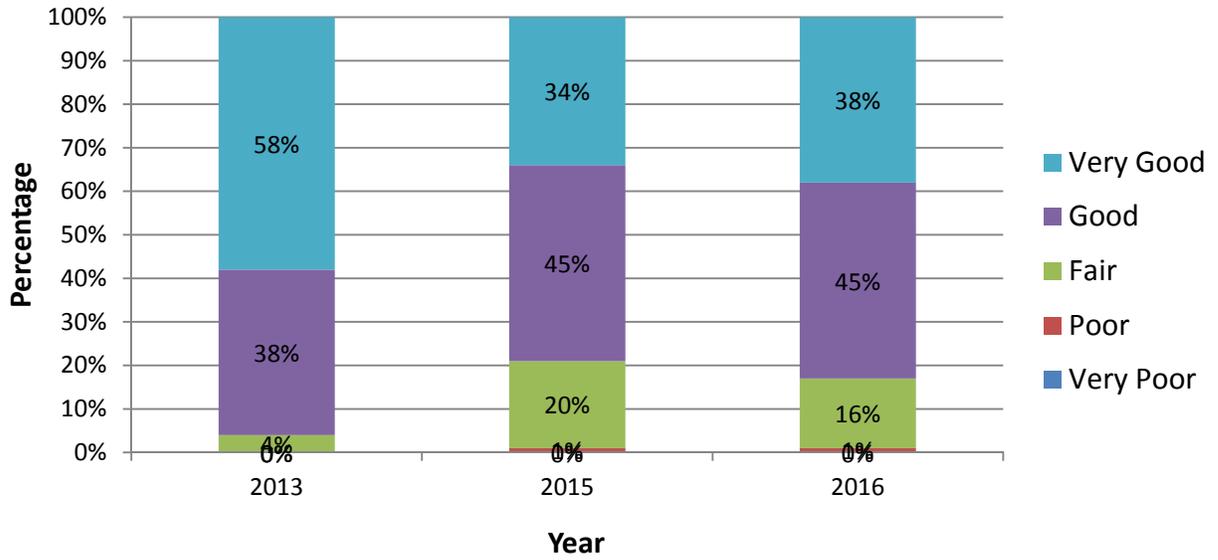
Average PQI=2.917 for 2380 centerline miles



5.1.2 PQI conditions for Region 4 Interstates

(Average PQI=3.925 for 372 centerline miles)





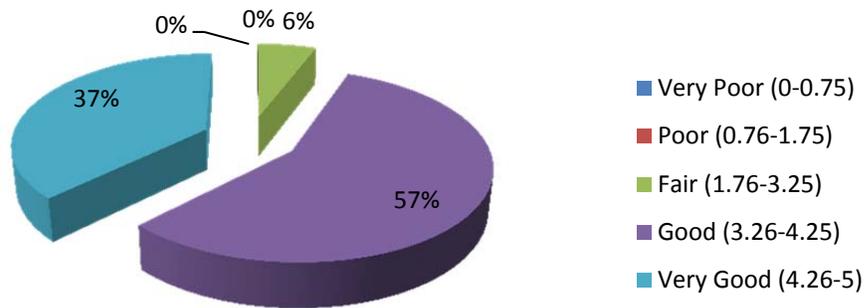
Change of PQI conditions in Region 4 over years
(Interstates)

Note: 372 centerline miles for 2013; 372 centerline miles for 2015; and 372 centerline miles for 2016.

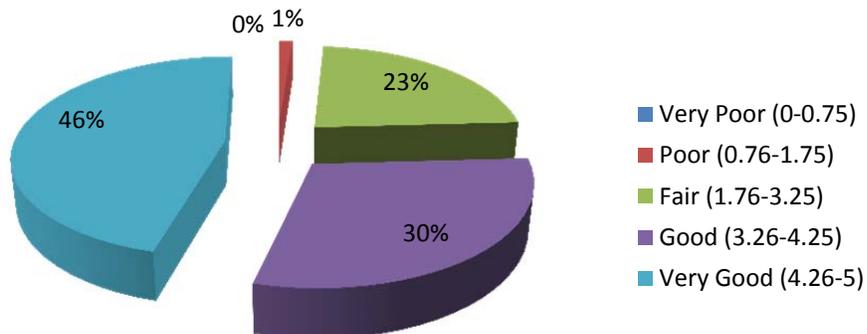
5.2 District PQI Values and Conditions in Region 4

5.2.1 PQI conditions for Interstates

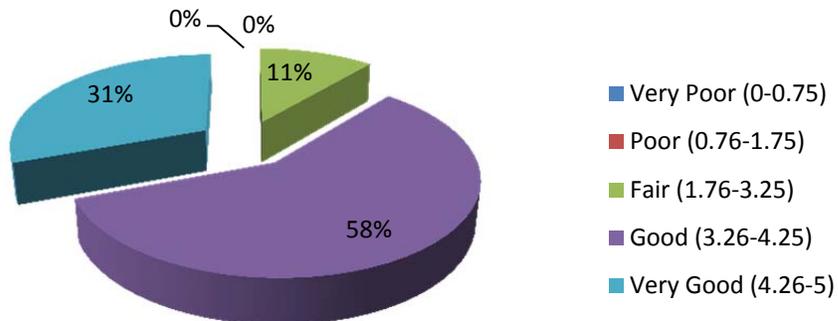
District 47 Interstates (51 miles)



District 48 Interstates (164 miles)

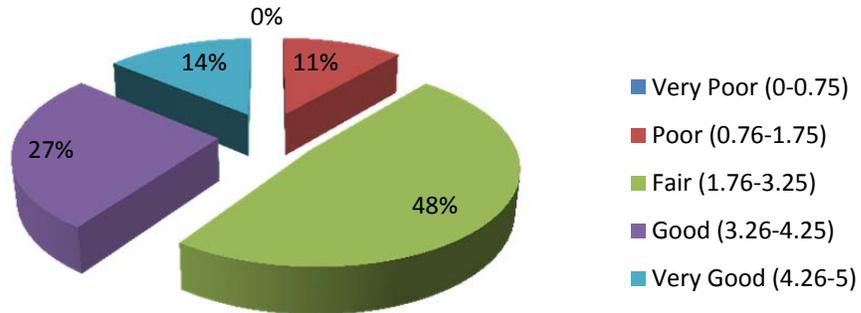


District 49 Interstates (157 miles)

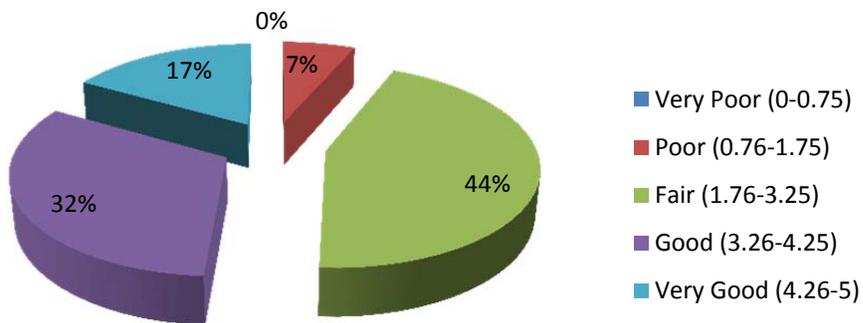


5.2.2 PQI conditions for State Routes

District 47 State Routes (351 miles)



District 48 State Routes (338 miles)



District 49 State Routes (309 miles)

