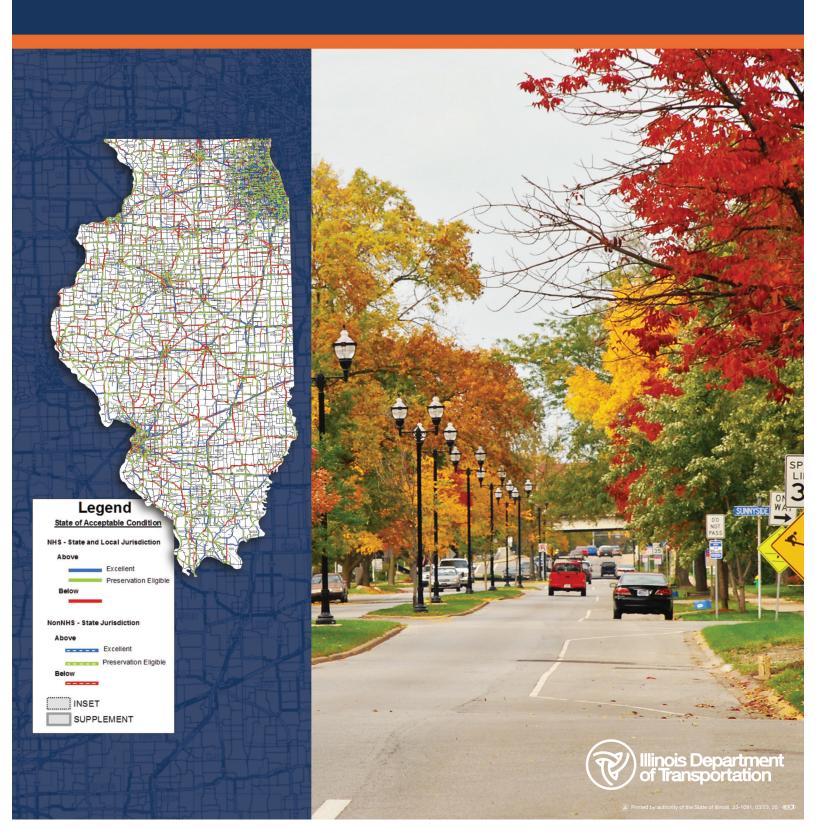


# CONDITION RATING SURVEY SUMMARY REPORT

**FY2022 - December 2022** 



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### Condition Rating Survey (CRS)

#### **CRS Overview**

The Illinois Department of Transportation (IDOT), through the Office of Planning and Programming, conducts the Condition Rating Survey (CRS) to assess the pavement condition on the approximate 16,000 centerline miles of the state highway system, the over 7,750 centerline miles of the National Highway System (NHS) and the approximate 2,000 miles of the Highway Performance Monitoring System (HPMS). To complete the assessment on the various highway systems the department collects images and condition data of between 13,000 to 15,000 miles annually. This collection includes the state-maintained routes as well as the nearly 500 miles of local government-maintained NHS and another 800 miles of locally maintained HPMS routes.

The CRS is a vital tool used to assist the Department with its pavement management activities and pavement performance measures. The CRS value, along with the predominant distresses for the pavement section, indicates the current condition of the pavement. The CRS is a factor in highway program development, it provides an opportunity to review the highway network, provides overall condition of the state highway system, gives input to the legislative/budgeting process and allows the calculation of the pavement's State of Acceptable Condition.

Starting in 2018 with the FY 2019-2024 Multi-Year Highway Improvement Program and the development of the Transportation Asset Management Program (TAMP) the CRS value and distress identified through the pavement condition assessment are being used as the primary measures for pavement management. This includes monitoring the department's progress toward asset management and performance management goals. A brief discussion of the TAMP goals are included in this summary. Detailed TAMP information can be found on IDOT's web site at Transportation Asset Management Plan (illinois.gov).

#### History

The CRS began in 1974 with panels of experts closely inspecting the pavements. This was a very labor-intensive effort with the panels driving the entire state highway network at a reduced speed. The panels assigned a numeric rating to each rating section and noted the three predominant distresses affecting the pavement along with the ride quality (perceived roughness). The rating and distresses were then manually entered into the computer database.

This methodology continued for the next 20 years. Then, in 1994 the Department converted to an automated collection methodology by utilizing Video Inspection Vehicles (VIVs) and computerized workstations for pavement analysis. The VIVs collected images of the roadway on videotape as well as sensor data (rutting, faulting, longitudinal profile) at highway speeds. The data was then analyzed at workstations in the office by the rating panels.

To keep consistency between the CRS rating values over the years and to take full advantage of the automated collection technology, modifications have been made to the CRS process. The modifications enhanced the sensor data by increasing the number of predominant distresses being identified from three to five. A methodology known as the Rater Program was developed to utilize the identified distresses and sensor data to calculate a CRS value. This program was developed by using historical CRS values and distresses, as well as input from experienced rating panels. The program placed an emphasis on distress identification and lessened the degree of subjectivity the individual rater had on the final CRS value. A version of the Rater Program is still in use today.

The videotape system was state-of-the-art technology when it was first implemented by IDOT in 1994. However, by the early 2000's the system was outdated due to advances in collection equipment and computer systems. After investigating newer technologies, the Department elected to switch to digital technology for the FY 2002 CRS. This digital technology enhanced the CRS significantly by replacing videotape with digital images and incorporating previous CRS rating methods (Rater Program) into software that could make the rating process more efficient. The digital collection process utilizes Data Collection Vehicles (DCVs) and workstations for analysis.

The DCVs are high-tech vans that collect digital images of the roadway and record rutting, faulting and roughness at highway speeds using laser sensors and on-board computers. A longitudinal profile of the roadway is also collected by the on-board computers in the DCVs. The DCVs were first used in the FY 2002 CRS and updated versions continue to collect CRS data today.

Beginning with the FY 2008 CRS, the data collection was outsourced to a vendor. The vendor's collection vehicles incorporated the most advanced technology of the time, including higher resolution cameras, a scanning line laser for road profile and a scanning line camera for down views of the pavement.

Outsourcing the collection process has proven to be an economical way to take advantage of advances in technology, namely higher resolution cameras and more sensitive laser sensors. IDOT staff continues to evaluate the pavement images and identify distresses by using the IDOT Rater program to determine the CRS value of a pavement section.

#### **CRS Training & Schedule**

To ensure statewide rating consistency, the Bureau of Programming in the Office of Planning and Programming (OPP) conducts training sessions annually before the CRS rating begins. The sessions provide a refresher course for experienced raters and training for new raters. The training consists of both classroom instruction and in-field rating. The field portion helps to relate the actual pavement conditions to the image's raters will be viewing at the workstations.

A random sample of rating sections are reviewed by experienced raters from the Central Office to ensure rating uniformity and proper distress identification throughout the state. The Bureau of Programming supplies districts with manuals and guidelines to assist them in their rating activities.

The CRS is conducted annually on alternating halves of the State except for the interstate system which is reviewed every year for CRS.

- Even numbered years
  - The non-interstate system is rated in District 1 Cook County, District 4, 5, 8, and 9
  - The interstate system is rated for CRS in all Districts
- Odd numbered years
  - The non-interstate system is rated in District 1 collar counties, District 2, 3, 6, and 7
  - The interstate system is reviewed for both CRS and the Pavement Review Team (PRT) to estimate remaining service life

For districts not rating in a given year, deterioration deducts are applied to the last CRS value and a current year CRS value is calculated. The deterioration deducts, or prediction models are not only used to determine a current year CRS when the actual CRS value is not available but also provide a method to estimate future CRS. The prediction of a future CRS is achieved using statistical models which consider pavement characteristics, the last CRS value and other pavement features. The CRS prediction models

were first developed and used by the department in the early 1990's. Later studies in 2000, 2007 and most recently 2018 improved upon the original and successive prediction models.

For additional information concerning the CRS process and/or its history, please contact the System Performance Manager (217) 785-2792 in the Bureau of Programming.

The following pages provide the results of the FY 2022 CRS. All mileage totals are based on centerline mileage unless noted otherwise.

If you have any questions concerning the data, please contact the Bureau of Programming in the Office of Planning and Programming.

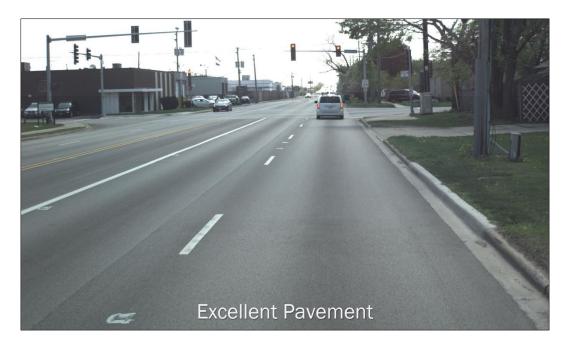
#### **CRS Descriptive Categories**

The Excellent, Good, Fair, and Poor descriptive categories are based on CRS values only. IDOT has been collecting data and performing the CRS on the state highway system since 1974. The data is reported on a scale of 1.0 to 9.0, where 1.0 represents a completely failed pavement and a 9.0 represents a pavement in its best/newly constructed condition. The CRS rating value is calculated based on surface type, identified distress, distress severity levels, International Roughness Index (IRI), Rutting and Faulting.

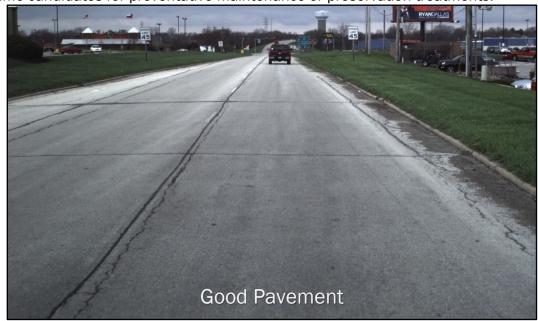
Historically, the department has approached maintaining pavement with a "worst-first," methodology. Those pavements in the poor to low fair condition, the "worst," received priority for funding. These repair and reconstruction projects are often very costly and time-consuming. As funding and resources became increasingly limited, this methodology allowed little margin for funding maintenance and preservation treatments that would prevent pavement in good condition from deteriorating to a worse condition.

Maintaining good pavements in acceptable condition by doing the right treatments at the right time is now the department's focus.

Pavements in the excellent category, CRS range 9.0 to 7.6, are in a high quality to new condition. Excellent pavements generally exhibit few if any distress levels, they are smooth pavement and if any cracking is present, it is tight. Little if any maintenance is needed for pavements in this group.



Pavements in the *good* category, CRS range 7.5 to 6.1, are in a very good to good condition. These pavements generally exhibit low to medium levels of distress and are not in need of an immediate improvement based on surface condition. Visible tight transverse and longitudinal cracking may be present. Maintenance such as crack sealing may have occurred. Pavements in the good category are commonly prime candidates for preventative maintenance or preservation treatments.



Pavements in the *fair* category, CRS range 6.0 to 4.6, will likely need improvement over the short term. Fair pavements can exhibit moderate rutting, a rougher ride along with more frequent and severe cracking. Pavements rated at the upper end of the fair category, a CRS rating at or above a 5.5 on interstates and 5.0 on all other roads, may be eligible for preservation treatments which are a cost-effective option to maximize the pavement life.



Pavements in the *poor* category, CRS range 4.5 to 1.0, are generally in need of improvement. These pavements will exhibit higher levels of distress over larger areas of the pavement surface. High levels of cracking lead to material loss, patch deterioration and loss of structural integrity. Major rehabilitation or reconstruction is generally the only option for pavement in the poor category.



CRS Range	Descriptive Category	Map Color
9.0 to 7.6	Excellent	Blue
7.5 to 6.1	Good	Green
6.0 to 4.6	Fair	Yellow
4.5 to 1.0	Poor	Red

The following pages offer tables, charts and maps providing a detailed breakdown of the Excellent, Good, Fair and Poor CRS descriptive categories based on the 2022 CRS results.

The CRS data contained in this report were finalized November 2022.

## Descriptive Categories by District and Statewide FY 2022 CRS

### **Centerline Miles**

All State Highway - Centerline Miles

District	Unknown*	Poor	Fair	Good	Excellent	Total
District	Olikilowii	CRS = 1.0-4.5	CRS = 4.6-6.0	CRS = 6.1-7.5	CRS = 7.6-9.0	i Otai
1	1.27	1.27 111.64 664.53 973.49		973.49	971.01	2,721.94
2	1.54	350.07	546.27	443.73	267.27	1,608.88
3	0.66	342.76	351.61	297.31	668.87	1,661.21
4	2.47	7 275.92 828.52 196.02		350.48	1,653.41	
5	0.88	171.40	454.27	214.31	455.04	1,295.90
6	1.52	755.18	552.18	335.77	422.36	2,067.01
7	1.99	283.80	457.15	254.02	623.04	1,620.00
8	2.45	422.44	440.55	393.21	547.60	1,806.25
9	1.18	55.41	399.04	430.77	572.67	1,459.07
Statewide	13.96	2,768.62	4,694.12	3,538.63	4,878.34	15,893.67

<sup>\*</sup>Data not available due to various DCV collection/operating constraints

Interstate Highway - Centerline Miles

District	Unknown*	Poor	Fair	Good	Excellent	Total
DISTRICT	Olikilowii	CRS = 1.0-4.5	CRS = 4.6-6.0	CRS = 6.1-7.5	CRS = 7.6-9.0	i Otai
1	0.00	0.00 6.02 40.80 98.16		72.78	217.76	
2	0.00	1.93	13.57	100.02	53.27	168.79
3	0.00	40.34	60.86	99.24	49.68	250.12
4	0.00	0.00	23.90 36.91		93.57	154.38
5	0.00	4.98	70.75	49.05 108.40		233.18
6	0.00	7.11	73.65	66.80	105.77	253.33
7	0.00	1.00	30.01	42.36	148.21	221.58
8	0.00	15.42	29.96	44.54 120.13		210.05
9	0.00	14.90	37.97	12.44	118.47	183.78
Statewide	0.00	91.70	381.47	549.52	870.28	1,892.97

<sup>\*</sup>Data not available due to various DCV collection/operating constraints

Other Marked Highway - Centerline Miles

			<del> </del>			
District	Unknown*	Poor	Fair	Good	Excellent	Total
District	O mano wiii	CRS = 1.0-4.5	CRS = 4.6-6.0	CRS = 6.1-7.5	CRS = 7.6-9.0	Total
1	0.00	54.39	327.15	653.30	590.64	1,625.48
2	0.17	262.48	466.02	299.27	197.31	1,225.25
3	0.00	230.10	288.84	195.08	599.69	1,313.71
4	0.00	249.13	766.09 149.4		247.82	1,412.52
5	0.00	133.62	306.43	149.86	282.19	872.10
6	0.00	594.40	381.95	201.36	276.22	1,453.93
7	0.00	220.07	345.09	178.15	377.52	1,120.83
8	0.10	310.62	261.81	283.96	397.49	1,253.98
9	0.08	24.31	334.58	401.54	393.37	1,153.88
Statewide	0.35	2,079.12	3,477.96	2,512.00	3,362.25	11,431.68

<sup>\*</sup>Data not available due to various DCV collection/operating constraints

**Unmarked Highway - Centerline Miles** 

District	Unknown*	Poor	Fair	Good	Excellent	Total
DISTRICT	Ulikilowii	CRS = 1.0-4.5	CRS = 4.6-6.0	CRS = 6.1-7.5	CRS = 7.6-9.0	TOLAI
1	1.27	51.23	296.58	222.03	307.59	878.70
2	1.37	85.66	66.68	44.44	16.69	214.84
3	0.66	72.32	1.91	2.99	19.50	97.38
4	2.47	26.79	26.79 38.53 9.63		9.09	86.51
5	0.88	32.80	77.09	15.40	64.45	190.62
6	1.52	153.67	96.58	67.61	40.37	359.75
7	1.99	62.73	82.05	33.51	97.31	277.59
8	2.35	96.40	148.78	64.71 29.98		342.22
9	1.10	16.20	26.49	16.79	60.83	121.41
Statewide	13.61	597.80	834.69	477.11	645.81	2,569.02

<sup>\*</sup>Data not available due to various DCV collection/operating constraints

Lane Miles
All State Highway Lane Miles

IDOT District	Unknown*	Poor CRS = 1.0-4.5	Fair CRS = 4.6-6.0	Good CRS = 6.1-7.5	Excellent CRS = 7.6-9.0	Total
1	2.56	366.96	2,149.72	3,500.59	3,436.57	9,456.40
2	3.05	771.95	1,294.62	1,198.53	764.79	4,032.94
3	1.32	1.32 787.50		787.50 858.28 851.11		4,014.55
4	5.86	609.52	1,859.43	528.58	1,055.98	4,059.37
5	1.76	380.74	1,126.66	594.10	1,231.53	3,334.79
6	2.97	1,621.25	1,348.50	895.73	1,248.81	5,117.26
7	3.73	619.72	1,034.07	616.64	1,661.48	3,935.64
8	4.55	1,007.06	1,080.43	1,017.56	1,545.20	4,654.80
9	2.31	141.45	904.83	940.03	1,555.98	3,544.60
Statewide	28.11	6,306.15	11,656.54	10,142.87	14,016.68	42,150.35

<sup>\*</sup>Data not available due to various DCV collection/operating constraints

**Interstate Highway Lane Miles** 

IDOT District	Unknown*		Fair CRS = 4.6-6.0			Total
1	0.00	30.49	225.01	590.96	440.85	1,287.31
2	0.00	7.72	54.28	400.08	222.79	684.87
3	0.00	162.43	243.44	396.96	198.72	1,001.55
4	0.00	0.00	95.60	147.97	394.27	637.84
5	0.00	19.00	283.35	196.20	456.45	955.00
6	0.00	42.66	319.31	268.73	450.86	1,081.56
7	0.00	4.00	120.04	169.44	608.18	901.66
8	0.00 79.14 144.90		144.90	189.27	543.07	956.38
9	0.00	59.60	151.88	49.76	510.84	772.08
Statewide	0.00	405.04	1,637.81	2,409.37	3,826.03	8,278.25

<sup>\*</sup>Data not available due to various DCV collection/operating constraints

Other Marked Highway Lane Miles

IDOT District	Unknown*	Poor CRS = 1.0-4.5	Fair CRS = 4.6-6.0	Good CRS = 6.1-7.5	Excellent CRS = 7.6-9.0	Total
1	0.00	192.84	1,032.75	2,252.52	2,057.93	5,536.04
2	0.34	579.34	1,097.55	701.03	508.31	2,886.57
3	0.00	474.17	610.91	447.43	1,276.74	2,809.25
4	0.00	553.59	1,674.71	360.34	642.09	3,230.73
5	0.00	296.24	685.98	362.78	644.06	1,989.06
6	0.00	1,242.72	816.36	483.54	716.47	3,259.09
7	0.00	484.41	749.11	379.82	839.38	2,452.72
8	0.14	715.38	612.97 688.02		935.94	2,952.45
9	0.08	49.45	699.97	856.75	923.46	2,529.71
Statewide	0.56	4,588.14	7,980.31	6,532.23	8,544.38	27,645.62

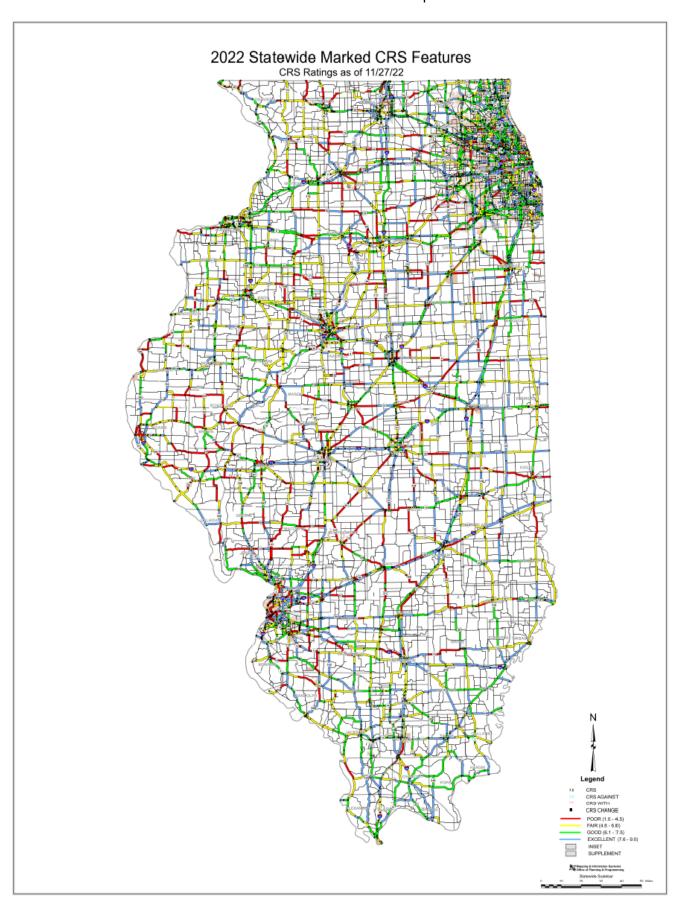
<sup>\*</sup>Data not available due to various DCV collection/operating constraints

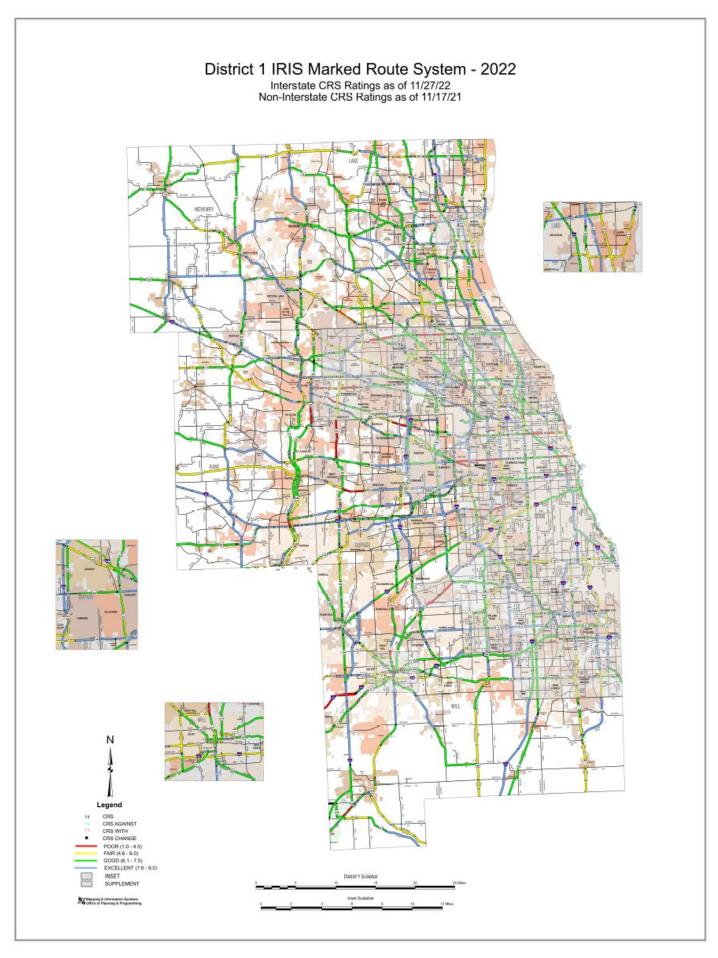
**Unmarked Highway Lane Miles** 

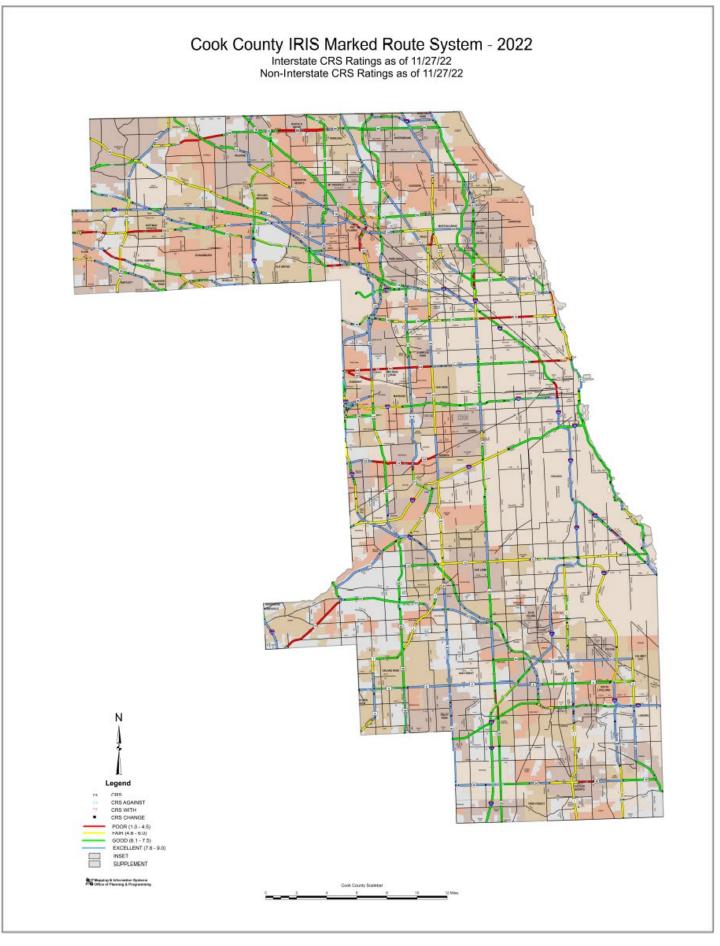
IDOT District	Unknown* Poor CRS = Fair 1.0-4.5		Fair CRS = 4.6-6.0	Good CRS = 6.1-7.5	Excellent CRS = 7.6-9.0	Total	
1	2.56	143.63	891.96	657.11	937.79	2,633.05	
2	2.71	184.89	142.79	97.42	33.69	461.50	
3	1.32	150.90	3.93	6.72	40.88	203.75	
4	5.86	55.93	89.12	20.27	19.62	190.80	
5	1.76	65.50	157.33	35.12	131.02	390.73	
6	2.97	335.87	212.83	143.46	81.48	776.61	
7	3.73	131.31	164.92	67.38	213.92	581.26	
8	4.41	212.54	322.56	140.27	66.19	745.97	
9	2.23	32.40	52.98	33.52	121.68	242.81	
Statewide	27.55	1,312.97	2,038.42	2,038.42 1,201.27		6,226.48	

<sup>\*</sup>Data not available due to various DCV collection/operating constraints

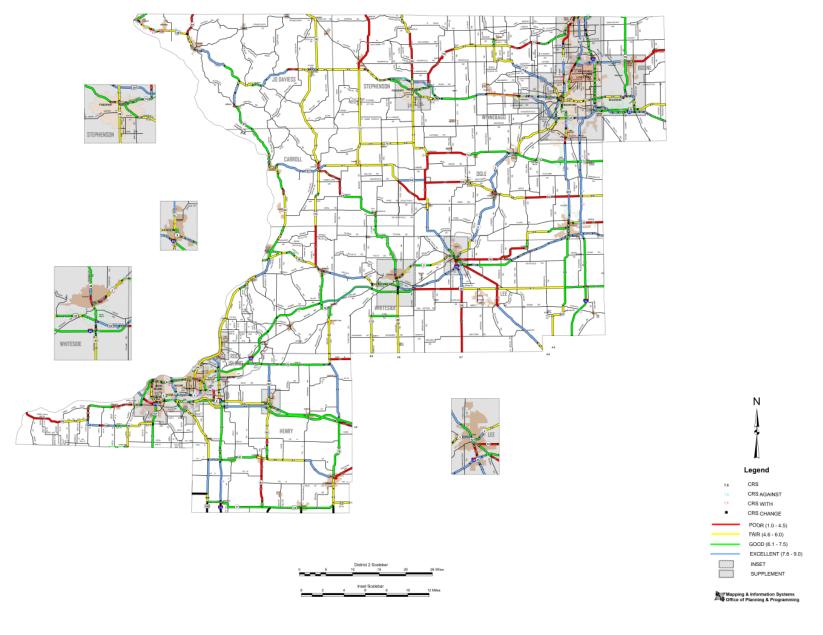
The CRS maps on the following pages display the CRS data. This data is the actual CRS value determined when rated in 2021 or 2022. The CRS date is indicated on each map.

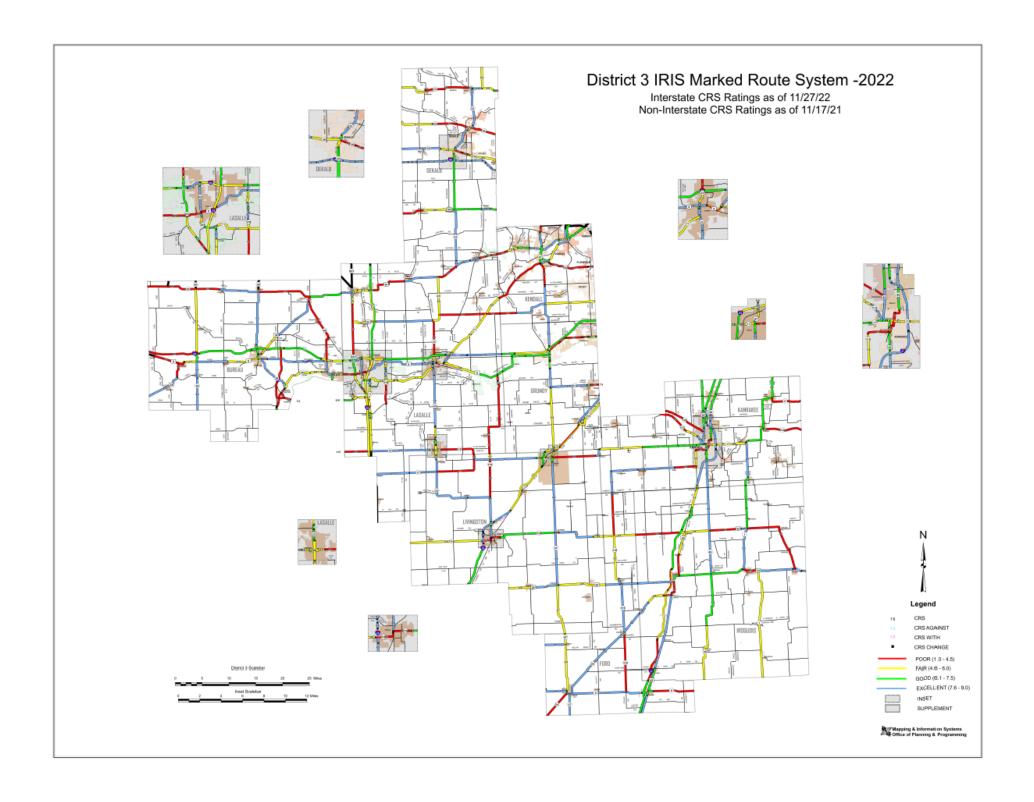


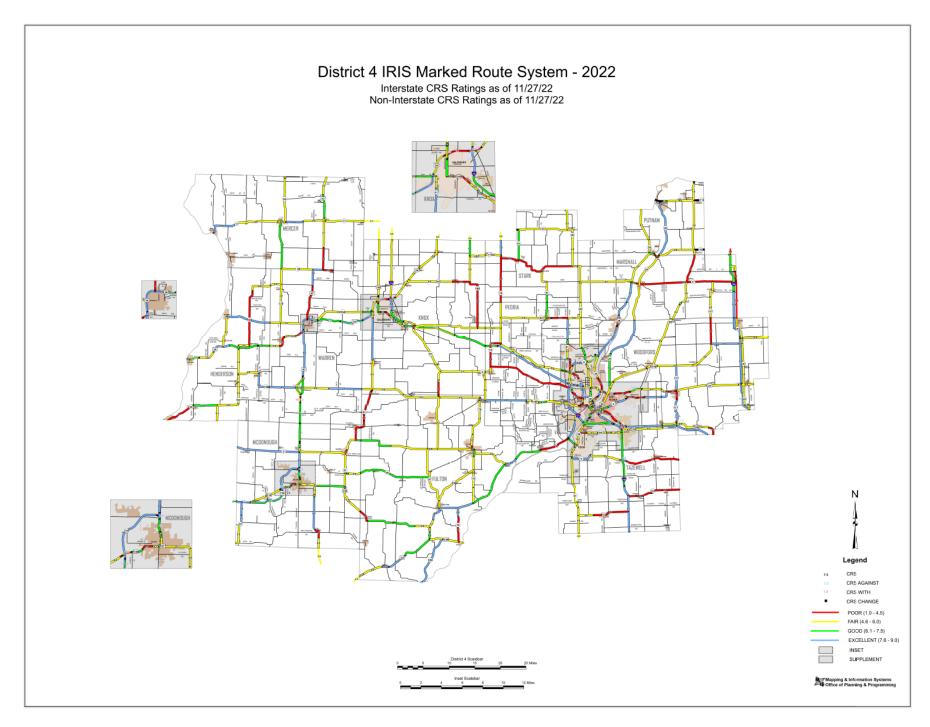


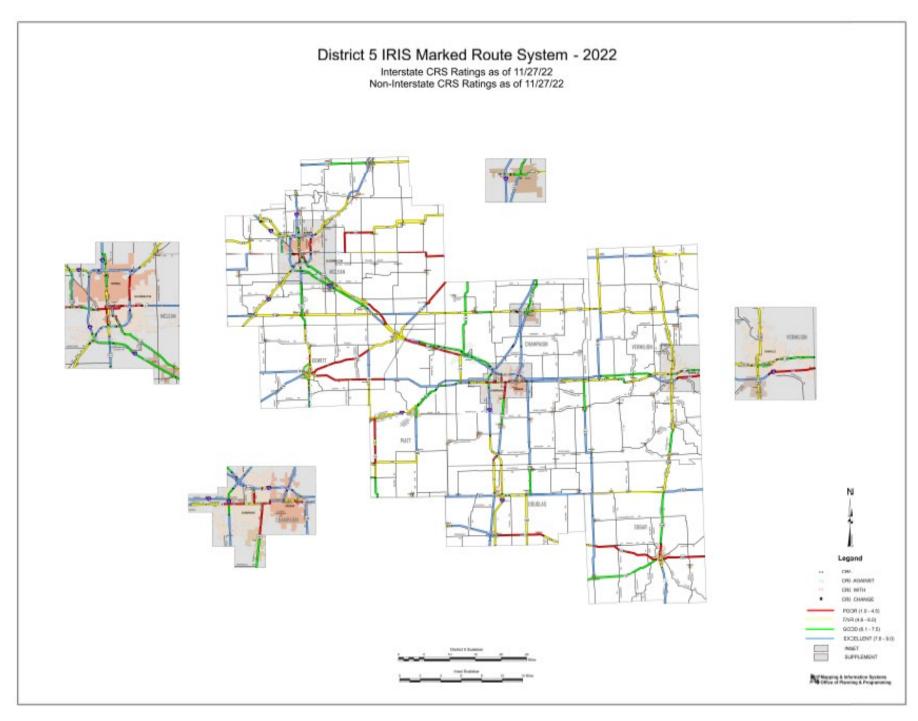


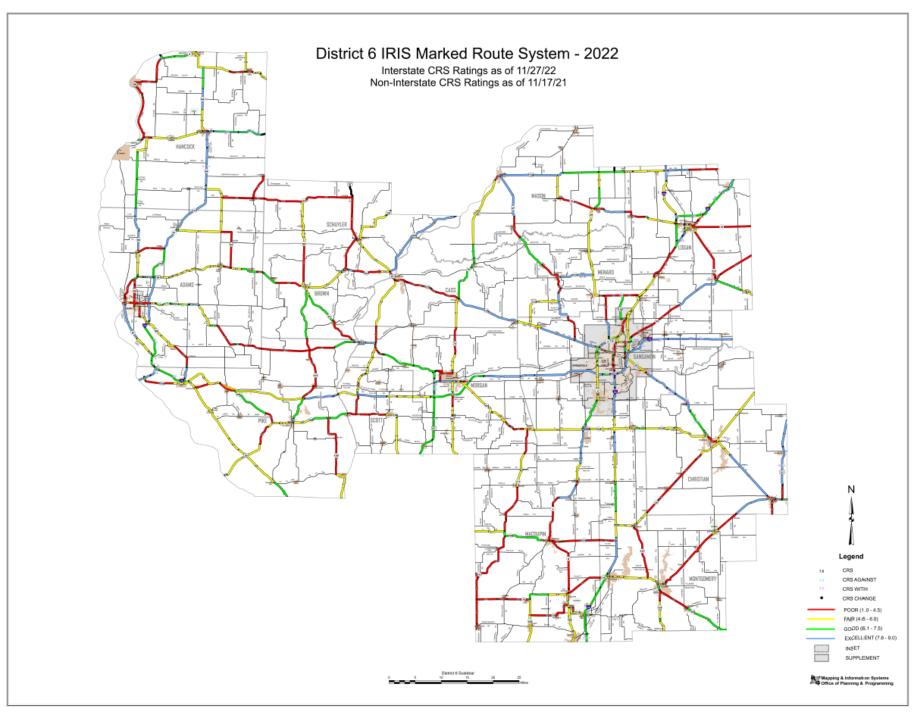
District 2 IRIS Marked Route System - 2022
Interstate CRS Ratings as of 11/27/22
Non-Interstate CRS Ratings as of 11/17/21

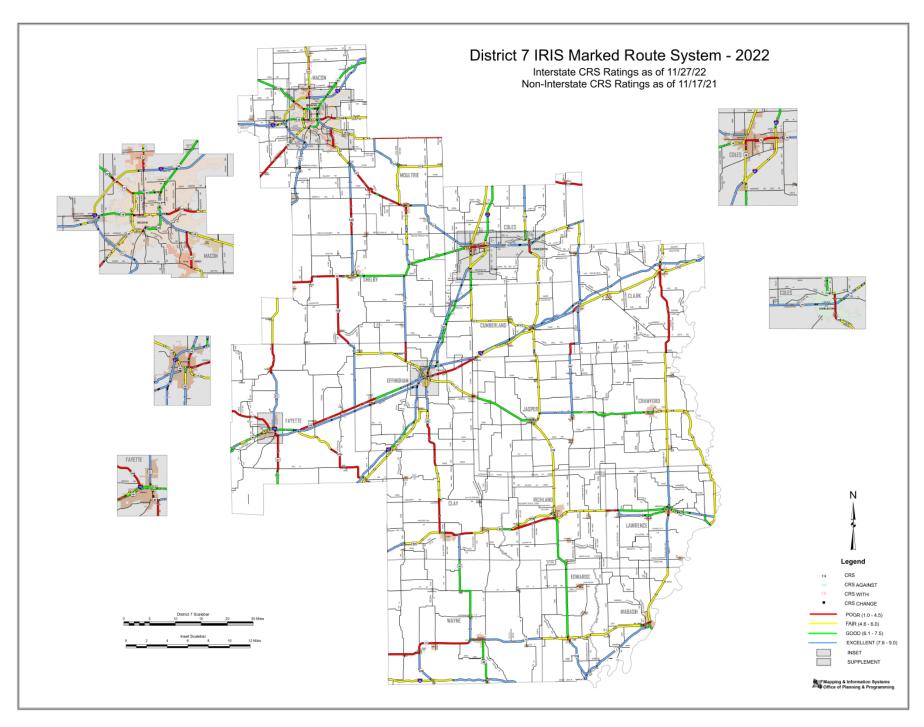


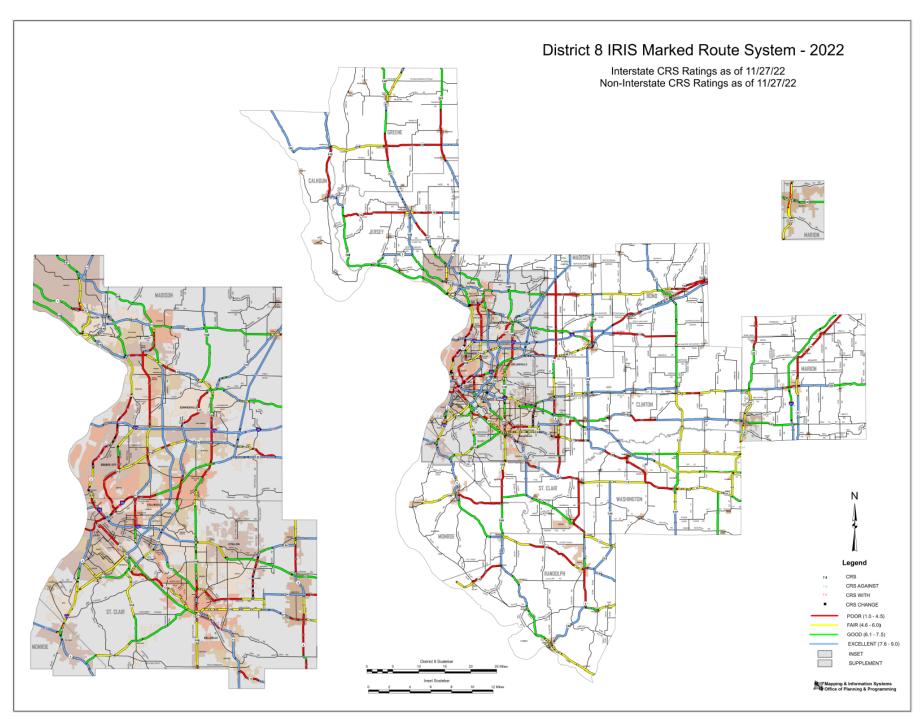


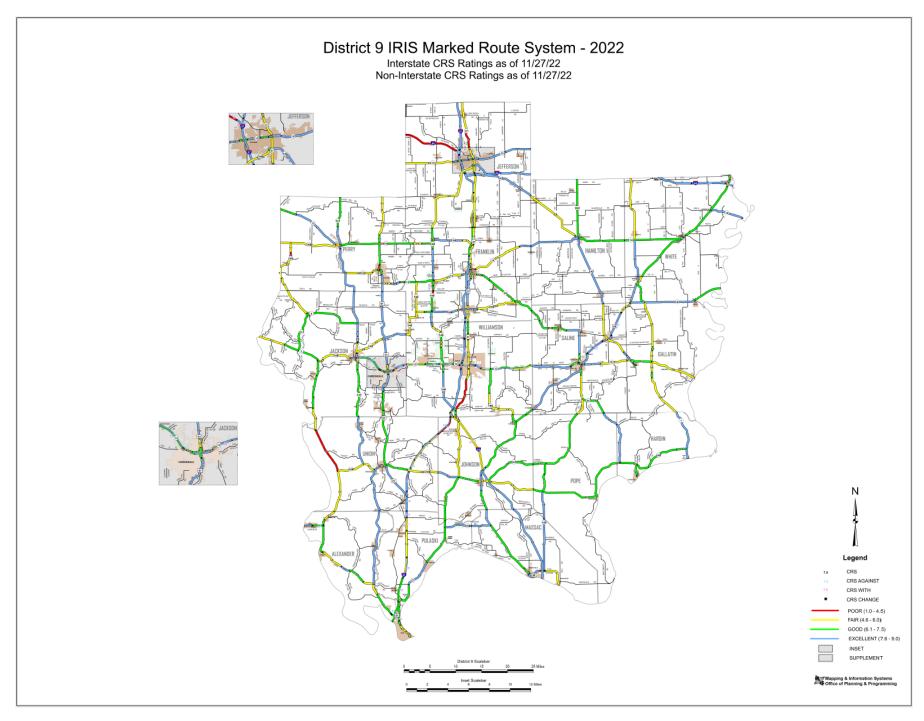


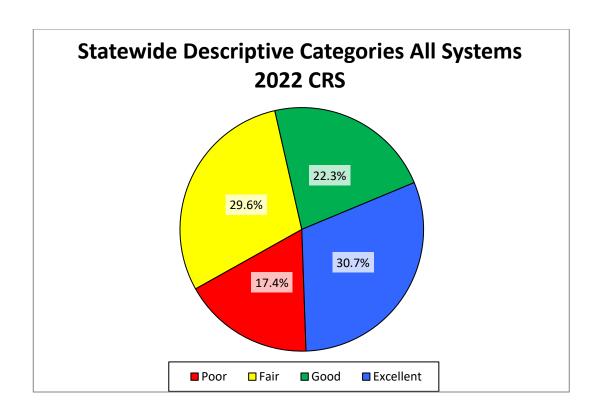






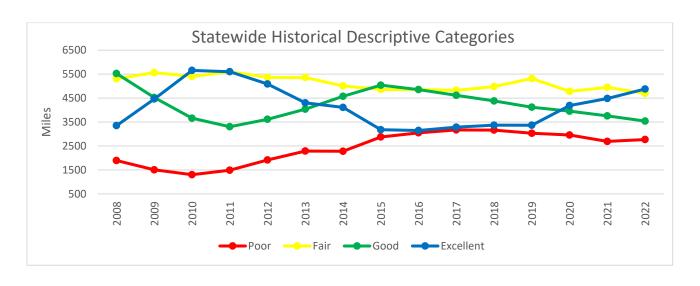






**Statewide Historical Descriptive Category Comparison** 

Ctate wide installed bescriptive Category						•	5	· · · ·							
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Poor (miles)	1,892	1,505	1,301	1,489	1,916	2,289	2,280	2,877	3,050	3,170	3,163	3,031	2,958	2,691	2,769
Fair (miles)	5,306	5,564	5,400	5,600	5,365	5,358	5,008	4,860	4,858	4,821	4,980	5,317	4,781	4,950	4,694
Good (miles)	5,526	4,523	3,659	3,304	3,615	4,037	4,574	5,039	4,854	4,615	4,380	4,120	3,954	3,757	3,539
Excellent (miles)	3,350	4,463	5,655	5,602	5,087	4,300	4,111	3,179	3,147	3,285	3,369	3,368	4,189	4,483	4,878



#### Weighted Average CRS

The weighted average condition rating is used to indicate the overall condition of the State's highway system. This value is obtained by multiplying miles of a CRS value by that CRS value, totaling these products, and then dividing the sum by total miles.

### Weighted Average CRS = $\Sigma$ (CRS value of 1.0 to 9.0) • (miles with each CRS value) Total Miles

The 2022 statewide weighted average CRS for the state highway system is a CRS of 6.3. This falls just within the good CRS descriptive category which has a range of 6.1 to 7.5. The 2022 weighted average CRS remained unchanged from what it was in 2021 which was up 0.1 of a point compared to 2020. The FY 2015-2019 weighted average CRS of 6.1 was one of the lowest values seen on the State's highway system in more than 20 years. A difference of 2 to 3 tenths of a point from one year to the next is considered a significant change.

The following pages provide a detailed breakdown of weighted average CRS statewide by highway system.

### Weighted Average Condition Rating All Systems

District	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	6.4	6.9	7.0	7.0	7.0	6.7	6.9	6.6	6.5	6.8	6.8	6.8	6.9	6.9	6.9
2	5.7	6.0	6.3	6.2	6.0	6.0	6.3	6.3	6.0	6.1	6.0	6.1	6.0	6.0	5.8
3	6.1	6.2	6.4	6.2	6.0	5.9	6.2	5.8	5.6	5.5	5.3	5.4	5.8	6.2	6.5
4	5.9	6.8	7.5	7.3	7.0	6.7	6.3	6.1	6.1	5.9	6.1	5.9	6.1	5.9	5.9
5	6.0	6.3	6.7	6.6	6.4	6.1	5.9	5.9	6.1	6.0	6.1	5.9	6.2	6.2	6.5
6	6.3	6.0	6.2	6.3	6.3	6.2	6.1	5.9	5.9	5.8	5.6	5.6	5.6	5.6	5.6
7	6.1	6.0	6.0	6.0	5.9	6.0	6.0	5.7	5.6	5.7	5.5	5.9	6.1	6.4	6.5
8	6.7	6.7	6.7	6.7	6.6	6.3	6.5	6.3	6.3	6.3	6.3	6.2	6.3	6.3	6.2
9	6.4	6.6	6.7	6.7	6.6	6.3	6.7	6.5	6.7	6.5	6.4	6.2	6.8	6.8	7.0
Statewide	6.2	6.4	6.6	6.6	6.5	6.3	6.4	6.1	6.1	6.1	6.1	6.1	6.2	6.3	6.3

### Weighted Average Condition Rating Interstate

District	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	7.1	6.8	7.7	7.9	7.8	7.6	7.5	7.1	7.3	7.0	7.0	6.7	6.6	7.0	7.2
2	6.4	6.3	6.8	6.4	6.3	6.0	6.7	7.8	7.8	7.6	7.6	7.5	7.5	7.5	7.2
3	6.2	6.3	6.8	6.6	6.6	6.2	6.6	6.2	6.6	6.4	6.7	6.4	6.5	6.3	6.3
4	6.7	7.4	6.7	6.6	6.4	6.1	6.1	6.2	6.5	6.5	6.9	6.9	7.3	7.4	7.7
5	6.2	6.7	7.5	7.3	7.2	6.9	6.6	6.8	7.1	7.1	7.2	7.0	7.3	7.0	7.1
6	6.7	6.7	7.0	6.9	7.0	6.7	7.0	7.0	7.3	7.1	7.0	6.8	7.1	7.2	6.9
7	6.7	6.8	6.3	6.2	6.5	6.2	7.0	6.9	7.3	7.0	7.3	7.2	7.0	7.2	7.5
8	6.7	6.8	6.7	6.9	6.6	6.4	7.5	7.2	7.6	7.4	7.6	7.4	7.6	7.4	7.2
9	6.7	6.9	7.2	7.1	6.9	6.7	6.6	6.8	7.3	7.2	7.0	7.0	7.0	7.3	7.4
Statewide	6.6	6.7	7.0	6.9	6.8	6.5	6.8	6.9	7.2	7.0	7.1	7.0	7.1	7.1	7.2

### Weighted Average Condition Rating Other Marked

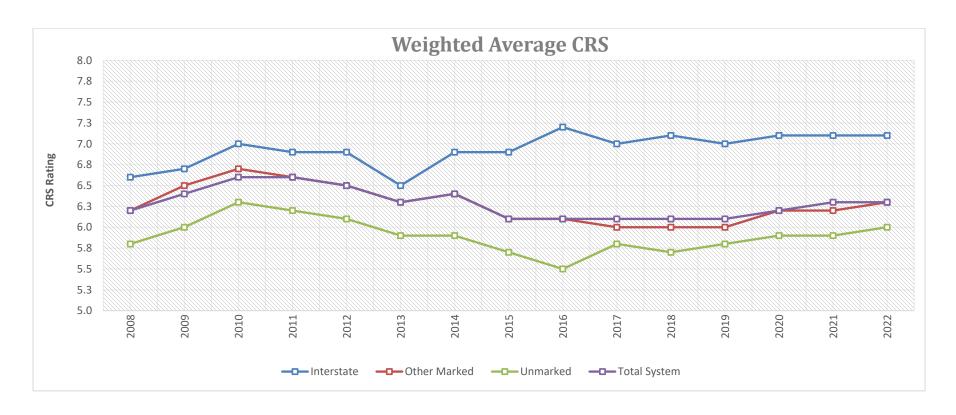
District	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	6.5	7.0	7.0	7.0	6.9	6.6	7.0	6.8	6.6	6.9	6.9	7.1	7.1	7.1	7.0
2	5.7	6.2	6.4	6.3	6.2	6.2	6.4	6.2	5.9	6.0	5.9	6.0	5.9	5.9	5.7
3	6.1	6.3	6.4	6.2	6.0	5.9	6.2	5.8	5.6	5.4	5.2	5.3	5.8	6.3	6.7
4	5.8	6.8	7.7	7.4	7.2	6.8	6.3	6.1	6.1	5.9	6.0	5.8	6.0	5.8	5.7
5	6.0	6.4	6.7	6.6	6.3	6.1	5.8	5.8	6	5.9	5.9	5.7	6.0	6.0	6.4
6	6.4	6.1	6.3	6.4	6.4	6.4	6.2	6.0	5.8	5.7	5.5	5.4	5.4	5.4	5.4
7	6.2	6.1	6.1	6.1	6.0	6.1	6.0	5.6	5.5	5.6	5.3	5.7	5.9	6.2	6.4
8	6.8	6.9	6.6	6.6	6.5	6.2	6.3	6.2	6.2	6.1	6.2	6.1	6.3	6.3	6.3
9	6.4	6.7	6.7	6.7	6.7	6.4	6.8	6.6	6.7	6.5	6.5	6.2	6.8	6.8	6.9
Statewide	6.2	6.5	6.7	6.6	6.5	6.3	6.4	6.1	6.1	6.0	6.0	6.0	6.2	6.2	6.3

### Weighted Average Condition Rating Unmarked

District	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	6.2	6.8	7.0	6.9	6.9	6.6	6.6	6.3	6.1	6.6	6.5	6.4	6.6	6.6	6.7
2	5.3	5.3	5.3	5.3	5.0	5.1	5.3	5.4	5.2	5.7	5.5	5.6	5.5	5.4	5.1
3	5.3	5.5	5.4	5.4	5.0	4.9	4.7	4.3	4.2	4.1	3.8	4.3	4.3	4.3	4.4
4	5.7	6.4	6.7	6.5	6.4	6.1	5.7	5.6	5.3	5.0	5.5	5.2	5.3	5.3	5.2
5	5.3	5.7	5.7	5.6	5.6	5.4	5.4	5.2	5.2	5.3	5.4	5.2	5.6	5.8	6.2
6	5.6	5.3	5.4	5.6	5.4	5.3	5.2	5.2	5	5.3	5.0	5.4	5.2	5.3	5.3
7	5.0	5.0	5.3	5.5	5.4	5.3	5.2	4.9	4.6	5.2	4.9	5.6	5.9	6.4	6.2
8	6.2	6.0	7.0	7.0	6.9	6.6	6.5	6.3	6.1	6.1	6.1	5.9	5.6	5.5	5.4
9	6.0	5.8	5.8	5.7	5.5	5.3	5.2	5.0	5.3	5.1	5.3	5.3	5.8	6.5	7.1
Statewide	5.8	6.0	6.3	6.2	6.1	5.9	5.9	5.7	5.5	5.8	5.7	5.8	5.9	5.9	5.7

Weighted Average Condition Rating Comparison Statewide

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Interstate	6.6	6.7	7.0	6.9	6.9	6.5	6.9	6.9	7.2	7.0	7.1	7.0	7.1	7.1	7.1
Other Marked	6.2	6.5	6.7	6.6	6.5	6.3	6.4	6.1	6.1	6.0	6.0	6.0	6.2	6.2	6.3
Unmarked	5.8	6.0	6.3	6.2	6.1	5.9	5.9	5.7	5.5	5.8	5.7	5.8	5.9	5.9	6.0
Statewide	6.2	6.4	6.6	6.6	6.5	6.3	6.4	6.1	6.1	6.1	6.1	6.1	6.2	6.3	6.3



### **National Highway System**

The National Highway System (NHS) includes highways important to the nation's economy, mobility and defense. The Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) required the creation of the NHS and identified certain strategic routes to be part of the network. Over the next several years additional routes were added with the cooperation of state transportation departments, metropolitan planning organizations and other local partners. In 1995 Congress approved the approximate 160,000-mile nationwide NHS, with Illinois' portion of about 5,600 miles. Congress developed the concept of the NHS as a way for states to focus federal resources on the nation's most important roads. The NHS consists of a combination of State, toll, and local jurisdiction miles.

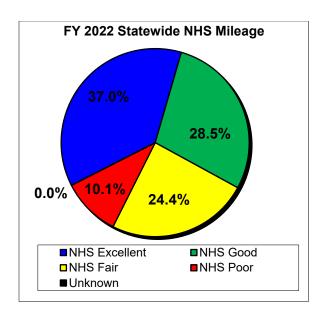
The 2012 legislation, Moving Ahead for Progress in the 21<sup>st</sup> Century (MAP-21), expanded the miles of NHS by creating an enhanced NHS network. On October 1, 2012, the NHS was expanded to about 230,000 miles nationwide. This expansion added about 2,100 miles to Illinois' existing NHS network, for a total of 7,885 miles statewide. The department works with local officials and FHWA to review Illinois' NHS and reclassify routes as needed. This NHS reassessment was completed in late summer 2018 and left Illinois with about 7,751 miles of NHS; of this mileage 6,973 miles were under the jurisdiction of IDOT.

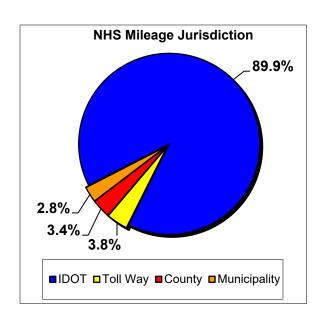
The tables below provide condition information for the current State and Local jurisdiction NHS by district and statewide.

Illinois - National Highway System Miles
State & Local Jurisdiction

District	Unknown	Poor	Fair	Good	Excellent	Total
DISTRICT	*	CRS = 1.0-4.5	CRS = 4.6-6.0	CRS = 6.1-7.5	CRS = 7.6-9.0	TOtal
1	0.08	88.76	439.00	919.24	802.68	2,249.76
2	0.04	105.74	235.27	253.59	199.97	794.61
3	0.00	63.38	165.23	180.05	264.72	673.38
4	0.38	55.84	200.30	112.21	214.83	583.56
5	0.00	27.60	196.60	132.45	209.02	565.67
6	0.00	177.04	228.29	169.20	253.82	828.35
7	0.00	111.76	175.45	119.12	323.52	729.85
8	0.35	125.19	143.96	194.67	333.96	798.13
9	0.00	26.73	111.36	127.28	266.04	531.41
Statewide	0.85	782.04	1,895.46	2,207.81	2,868.56	7,754.72

<sup>\*</sup>Data not available due to various collection/operating constraints or non-state jurisdiction





Illinois - National Highway System Miles State Jurisdiction

District	Unknown*	Poor CRS = 1.0-4.5	Fair CRS = 4.6-6.0	Good CRS = 6.1–7.5	Excellent CRS = 7.6-9.0	Total
1	0.00	57.89	350.22	638.48	620.87	1,667.46
2	0.04	91.11	210.62	205.97	163.42	671.16
3	0.00	63.38	164.60	178.28	245.81	652.07
4	0.38	53.42	197.47	112.07	212.95	576.29
5	0.00	27.10	192.74	128.68	199.84	548.36
6	0.00	176.33	227.38	164.33	253.59	821.63
7	0.00	111.76	174.69	117.67	323.52	727.64
8	0.35	123.62	140.88	185.98	327.90	778.73
9	0.00	26.73	111.36	127.28	263.88	529.25
Statewide	0.77	731.34	1,769.96	1,858.74	2,611.78	6,972.59

### Asset Management Implementation Transportation Asset Management Plan and State of Acceptable Condition

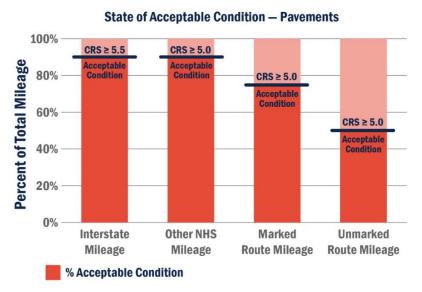
IDOT has developed and implemented a Transportation Asset Management Plan (TAMP) consistent with 23 U.S.C. 119 and 23 CFR part 515. As outlined in the TAMP, the Department has implemented a proactive life cycle planning approach, that recognizes the importance of preservation activities before the pavements deteriorate below an acceptable condition.

This approach uses CRS values to determine the percentage of the highway system that is in a "State of Acceptable Condition," representing a CRS value of 5.5 or higher for Interstates and 5.0 for Other NHS and Non-NHS routes. These CRS values were selected because they represent the condition at which preservation treatments are considered viable. The preservation work will focus on keeping the good pavements in acceptable condition before they fall to a lower rating and warrant a higher cost improvement.

The State of Acceptable Condition and the percentage goals are as follows:

- 90 percent of interstates at a CRS rating of 5.5 or higher
- 90 percent of non-interstate NHS roads at a CRS rating of 5.0 or higher
- 75 percent of non-NHS marked roads at a CRS rating of 5.0 or higher
- 50 percent of non-NHS unmarked roads at a CRS rating of 5.0 or higher

The chart below shows the State of Acceptable Conditions for each system graphically:



Beginning with the FY 2019-2024 Multi-Year Program (MYP), the department focused on performing treatments in all stages of the system's life cycle. The goal continues to be to program 80 percent of the miles in the MYP as reconstruction/rehabilitation work and 20 percent of the miles as preservation work based on the number of miles of roads programmed in each district.

Due to current system conditions, it will take several years to achieve our goals of acceptable condition. Moving in this direction in the long run will provide a more cost-effective and manageable transportation system. The following summary tables display the historic and current State of Acceptable Condition percentages by centerline miles for each highway district for the interstate, other NHS, marked, and unmarked systems.

### State of Acceptable Condition Targets Historical - State Jurisdiction

			N	HS					Non	-NHS		
10.07	I	nterstate		Ma	arked NHS	;		Marked		ι	Jnmarked	
IDOT	Ta	arget: 90%	)	Ta	arget: 90%	)	Та	rget: 75%		T	arget: 50%	,
District	SOAC	Total	SOAC	SOAC	Total	SOAC	SOAC	Total	SOAC	SOAC	Total	SOAC
	Miles	Miles	%	Miles	Miles	%	Miles	Miles	%	Miles	Miles	%
2018	1,690.18	1,892.34	89%	3,905.74	5,078.96	77%	4,443.94	6,563.81	68%	1,556.67	2,357.09	66%
2019	1,580.01	1,892.54	83%	3,974.51	5,080.95	78%	4,394.68	6,568.78	67%	1,579.99	2,292.45	69%
2020	1,598.43	1,892.54	84%	4,113.01	5,079.60	81%	4,466.13	6,568.88	68%	1,595.11	2,340.90	68%
2021	1,595.73	1,892.54	84%	4,144.92	5,079.78	82%	4,510.17	6,568.97	69%	1,607.78	2,340.53	69%
2022	1,624.35	1,892.97	86%	4,144.79	5,078.85	82%	4,509.33	6,568.95	69%	1,593.14	2,338.94	68%

### State of Acceptable Condition Targets by District - State Jurisdiction - 2022

			NI NI	HS					Non-	NHS		
IDOT		Interstate arget: 90%	<b>%</b>		larked NH arget: 90%		т	Marked arget: 75%	<b>%</b>		Unmarked arget: 50%	
District	SOAC	Total	SOAC	SOAC	Total	SOAC	SOAC	Total	SOAC	SOAC	Total	SOAC
	Miles	Miles	%	Miles	Miles	%	Miles	Miles	%	Miles	Miles	%
District 1	206.06	217.76	95%	1,350.68	1,449.70	93%	313.39	321.42	98%	625.94	731.79	86%
District 2	162.68	168.79	96%	359.03	502.33	71%	468.52	736.52	64%	105.89	199.70	53%
District 3	178.57	250.12	71%	369.04	401.95	92%	630.69	914.00	69%	24.20	94.48	26%
District 4	140.62	154.38	91%	315.91	421.53	75%	658.62	997.17	66%	40.11	77.86	52%
District 5	209.73	233.18	90%	261.81	315.18	83%	375.35	563.11	67%	125.06	183.55	68%
District 6	203.19	253.33	80%	357.19	568.30	63%	371.97	904.48	41%	172.39	339.38	51%
District 7	190.91	221.58	86%	361.74	506.06	71%	461.89	628.26	74%	183.76	262.11	70%
District 8	175.99	210.05	84%	436.80	568.33	77%	468.49	695.66	67%	215.27	329.76	65%
District 9	156.60	183.78	85%	332.59	345.47	96%	760.41	808.33	94%	100.52	120.31	84%
Statewide	1,624.35	1,892.97	86%	4,144.79	5,078.85	82%	4,509.33	6,568.95	69%	1,593.14	2,338.94	68%

### State of Acceptable Condition Targets NHS - by District - State and Local Jurisdiction - 2022

		· · · · · · · ·	<u> </u>						
IDOT		Interstate Target: 90%			Marked NHS Target: 90%		_	nmarked NH Target: 90%	
District	SOAC	Total	SOAC	SOAC	Total	SOAC	SOAC	Total	SOAC
	Miles	Miles	%	Miles	Miles	%	Miles	Miles	%
District 1	411.08	424.69	97%	1,231.35	1,314.30	94%	451.96	510.69	88%
District 2	229.99	236.10	97%	352.74	488.56	72%	42.44	69.91	61%
District 3	196.83	268.38	73%	368.96	399.71	92%	3.13	5.29	59%
District 4	140.62	154.38	91%	313.07	415.35	75%	6.56	13.45	49%
District 5	209.73	233.18	90%	256.13	308.99	83%	22.11	23.50	94%
District 6	203.19	253.33	80%	351.68	551.58	64%	11.39	23.44	49%
District 7	190.91	221.58	86%	352.52	492.57	72%	11.43	15.70	73%
District 8	175.99	210.05	84%	432.30	558.22	77%	21.21	29.51	72%
District 9	156.60	183.78	85%	332.59	345.47	96%	2.16	2.16	100%
Statewide	1,914.94	2,185.47	88%	3,991.34	4,874.75	82%	572.39	693.65	83%

<sup>\*</sup>Interstate includes toll miles

State of Acceptable Condition Targets
NHS - by District - State and Local Jurisdiction Lane Miles - 2022

		Ni	HS			Non-	NHS	
IDOT	Inters	state	Other	NHS	Unma	rked	Unma	rked
District	Target	:: <b>90</b> %	Target	:: <b>90</b> %	Target	:: 75%	Target	:: <b>50</b> %
	Lane	SOAC	Lane	SOAC	Lane	SOAC	Lane	SOAC
	Miles	%	Miles	%	Miles	%	Miles	%
District 1	1,287.31	95%	5,214.95	93%	896.87	98%	2,054.71	85%
District 2	684.87	96%	1,420.44	73%	1,512.03	63%	412.55	52%
District 3	1,001.55	71%	955.72	91%	1,862.49	69%	193.47	26%
District 4	637.84	91%	1,185.96	76%	2,068.51	67%	161.20	52%
District 5	955.00	90%	865.87	83%	1,144.19	67%	367.97	68%
District 6	1,081.56	79%	1,495.91	67%	1,837.72	42%	699.10	51%
District 7	901.66	86%	1,221.37	72%	1,278.23	73%	530.65	70%
District 8	956.38	82%	1,529.30	76%	1,449.78	67%	714.79	65%
District 9	772.08	86%	897.82	97%	1,631.81	94%	240.58	84%

The following tables provide further detail of the current State of Acceptable Condition miles both statewide and for each of the nine districts. The State of Acceptable Condition miles are divided by whether the pavement is in excellent condition or if in a preservation eligible condition. The preservation eligible miles are at the opportune time to apply low-cost preservation treatments to maintain the pavement at an acceptable condition. The preservation treatment will keep the pavement from falling below the State of Acceptable Condition threshold and requiring a more costly treatment. The miles currently below the State of Acceptable Condition must be evaluated using the department's decision trees to determine the treatments necessary to maximize the life cycle of the pavement.

Statewide - State of Acceptable Condition

		<u> </u>	<u> </u>		<u> </u>			
Route Type	Excellent	Preservation Eligible	SOAC Miles	SOAC %	Target SOAC %	Below Miles	Below %	Total
NHS	2,868.56	3,610.11	6,478.67	84%	90%	1,275.20	16%	7,753.87
Interstate	1,002.59	912.35	1,914.94	88%	-	270.53	12%	2,185.47
State	870.28	754.07	1,624.35	86%	-	268.62	14%	1,892.97
Toll	132.31	158.28	290.59	99%	-	1.91	1%	292.50
Non-Interstate	1,865.97	2,788.76	4,563.73	82%	90%	1,004.67	18%	5,568.40
State	1,741.50	2,403.29	4,144.79	82%	-	934.06	18%	5,078.85
Local	124.47	294.47	418.94	86%	-	70.61	14%	489.55
Non-NHS	2,266.56	3,835.91	6,102.47	69%	NA	2,805.42	31%	8,907.89
Marked	1685.53	2,823.80	4,509.33	69%	75%	2,059.62	31%	6,568.95
Unmarked	581.03	1012.11	1,593.14	68%	50%	745.80	32%	2,338.94
Statewide Total:	5,135.12	7,446.02	12,581.14	76%	NA	4,080.62	24%	16,661.76

**District 1 – State of Acceptable Condition** 

Route Type	Excellent	Preservation Eligible	SOAC Miles	SOAC %	Target SOAC %	Below Miles	Below %	Total
NHS	802.68	1,291.71	2,094.39	93%	90%	155.29	7%	2,249.68
Interstate	157.08	254.00	411.08	97%	-	13.61	3%	424.69
State	72.78	133.28	206.06	95%	-	11.70	5%	217.76
Toll	84.30	120.72	205.02	99%	-	1.91	1%	206.93
Non-Interstate	645.60	1,037.71	1,683.31	92%	90%	141.68	8%	1,824.99
State	548.09	802.68	1,350.68	93%	-	99.02	7%	1,449.70
Local	97.51	235.12	332.63	92%	-	28.95	8%	361.58
Non-NHS	350.14	589.19	939.33	89%	NA	113.88	11%	1,053.21
Marked	95.24	218.15	313.39	98%	75%	8.03	2%	321.42
Unmarked	254.90	371.04	625.94	86%	50%	105.85	14%	731.79
District 1 Total:	1,152.82	1,880.90	3,033.72	92%	NA	269.17	8%	3,302.89

District 2 - State of Acceptable Condition

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Route Type	Excellent	Preservation Eligible	SOAC Miles	SOAC %	Target SOAC %	Below Miles	Below %	Total
NHS	199.97	425.20	625.17	79%	90%	169.40	21%	794.57
Interstate	83.78	146.21	229.99	97%	-	6.11	3%	236.10
State	53.27	109.41	162.68	96%	-	6.11	4%	168.79
Toll	30.51	36.80	67.31	100%	-	0.00	0%	67.31
Non-Interstate	116.19	278.99	395.18	71%	90%	163.29	29%	558.47
State	110.15	248.88	359.03	71%	-	143.30	29%	502.33
Local	6.04	30.11	36.15	64%	-	19.99	36%	56.14
Non-NHS	103.85	470.56	574.41	61%	NA	361.81	39%	936.22
Marked	87.16	381.36	468.52	64%	75%	268.00	36%	736.52
Unmarked	16.69	89.20	105.89	53%	50%	93.81	47%	199.70
District 2 Total:	303.82	895.76	1,199.58	69%	NA	531.21	31%	1,730.79

**District 3 – State of Acceptable Condition** 

		Diotriot 0	- to: to	oooptable				
Route Type	Excellent	Preservation Eligible	SOAC Miles	SOAC %	Target SOAC %	Below Miles	Below %	Total
NHS	264.72	304.20	568.92	84%	90%	104.46	16%	673.38
Interstate	67.18	129.65	196.83	73%	-	71.55	27%	268.38
State	49.68	128.89	178.57	71%	-	71.55	29%	250.12
Toll	17.50	0.76	18.26	100%	-	0.00	0%	18.26
Non-Interstate	197.54	174.55	372.09	92%	90%	32.91	8%	405.00
State	196.13	172.91	369.04	92%	-	32.91	8%	401.95
Local	1.41	1.64	3.05	100%	-	0.00	0%	3.05
Non-NHS	423.06	231.83	654.89	65%	NA	353.59	35%	1,008.48
Marked	403.64	227.05	630.69	69%	75%	283.31	31%	914.00
Unmarked	19.42	4.78	24.20	26%	50%	70.28	74%	94.48
District 3 Total:	687.78	536.03	1,223.81	73%	NA	458.05	27%	1,681.86

**District 4 – State of Acceptable Condition** 

		Preservation	SOAC		Target	Below		
Route Type	Excellent			SOAC %	_		Below %	Total
V 1		Eligible	Miles		SOAC %	Miles		
NHS	214.83	245.42	460.25	79%	90%	122.93	21%	583.18
Interstate	93.57	47.05	140.62	91%	-	13.76	9%	154.38
State	93.57	47.05	140.62	91%	-	13.76	9%	154.38
Non-Interstate	121.26	198.37	319.63	75%	90%	109.17	25%	428.80
State	119.38	196.53	315.91	75%	-	105.62	25%	421.53
Local	1.88	1.84	3.72	51%	-	3.55	49%	7.27
Non-NHS	137.53	561.20	698.73	65%	NA	376.30	35%	1,075.03
Marked	128.44	530.18	658.62	66%	75%	338.55	34%	997.17
Unmarked	9.09	31.02	40.11	52%	50%	37.75	48%	77.86
District 4 Total:	352.36	806.62	1,158.98	70%	NA	499.23	30%	1,658.21

District 5 - State of Acceptable Condition

Biodriot o Otate of Accoptable containen								
Route Type	Excellent	Preservation Eligible	SOAC Miles	SOAC %	Target SOAC %	Below Miles	Below %	Total
NHS	209.02	278.95	487.97	86%	90%	77.70	14%	565.67
Interstate	108.40	101.33	209.73	90%	-	23.45	10%	233.18
State	108.40	101.33	209.73	90%	-	23.45	10%	233.18
Non-Interstate	100.62	177.62	278.24	84%	90%	54.25	16%	332.49
State	91.44	170.37	261.81	83%	-	53.37	17%	315.18
Local	9.18	7.25	16.43	95%	-	0.88	5%	17.31
Non-NHS	255.20	245.21	500.41	67%	NA	246.25	33%	746.66
Marked	191.73	183.62	375.35	67%	75%	187.76	33%	563.11
Unmarked	63.47	61.59	125.06	68%	50%	58.49	32%	183.55
District 5 Total:	464.22	524.16	988.38	75%	NA	323.95	25%	1,312.33

District 6 - State of Acceptable Condition

Route Type	Excellent	Preservation Eligible	SOAC Miles	SOAC %	Target SOAC %	Below Miles	Below %	Total
NHS	253.82	312.44	566.26	68%	90%	262.09	32%	828.35
Interstate	105.77	97.42	203.19	80%	-	50.14	20%	253.33
State	105.77	97.42	203.19	80%	-	50.14	20%	253.33
Non-Interstate	148.05	215.02	363.07	63%	90%	211.95	37%	575.02
State	147.82	209.37	357.19	63%	-	211.11	37%	568.30
Local	0.23	5.65	5.88	88%	-	0.84	13%	6.72
Non-NHS	168.77	375.59	544.36	44%	NA	699.50	56%	1,243.86
Marked	128.71	243.26	371.97	41%	75%	532.51	59%	904.48
Unmarked	40.06	132.33	172.39	51%	50%	166.99	49%	339.38
District 6 Total:	422.59	688.03	1,110.62	54%	NA	961.59	46%	2,072.21

**District 7 – State of Acceptable Condition** 

			Otato oi 710					
Route Type	Excellent	Preservation Eligible	SOAC Miles	SOAC %	Target SOAC %	Below Miles	Below %	Total
NHS	323.52	231.34	554.86	76%	90%	174.99	24%	729.85
Interstate	148.21	42.70	190.91	86%	-	30.67	14%	221.58
State	148.21	42.70	190.91	86%	-	30.67	14%	221.58
Non-Interstate	175.31	188.64	363.95	72%	90%	144.32	28%	508.27
State	175.31	186.43	361.74	71%	-	144.32	29%	506.06
Local	0.00	2.21	2.21	100%	-	0.00	0%	2.21
Non-NHS	299.52	346.13	645.65	73%	NA	244.72	27%	890.37
Marked	210.98	250.91	461.89	74%	75%	166.37	26%	628.26
Unmarked	88.54	95.22	183.76	70%	50%	78.35	30%	262.11
District 8 Total:	623.04	577.47	1,200.51	74%	NA	419.71	26%	1,620.22

**District 8 – State of Acceptable Condition** 

Route Type	Excellent	Preservation Eligible	SOAC Miles	SOAC %	Target SOAC %	Below Miles	Below %	Total
NHS	333.96	295.54	629.50	79%	90%	168.28	21%	797.78
Interstate	120.13	55.86	175.99	84%	-	34.06	16%	210.05
State	120.13	55.86	175.99	84%	-	34.06	16%	210.05
Non-Interstate	213.83	239.68	453.51	77%	90%	134.19	23%	587.70
State	207.77	229.03	436.80	77%	-	131.53	23%	568.33
Local	6.06	10.65	16.71	86%	-	2.69	14%	19.40
Non-NHS	219.70	464.06	683.76	67%	NA	341.66	33%	1,025.42
Marked	191.67	276.82	468.49	67%	75%	227.17	33%	695.66
Unmarked	28.03	187.24	215.27	65%	50%	114.49	35%	329.76
District 8 Total:	553.66	759.60	1,313.26	72%	NA	509.94	28%	1,823.20

District 9 - State of Acceptable Condition

Route Type	Excellent	Preservation Eligible	SOAC Miles	SOAC %	Target SOAC %	Below Miles	Below %	Total
NHS	266.04	225.31	491.35	92%	90%	40.06	8%	531.41
Interstate	118.47	38.13	156.60	85%	-	27.18	15%	183.78
State	118.47	38.13	156.60	85%	-	27.18	15%	183.78
Non-Interstate	147.57	187.18	334.75	96%	90%	12.88	4%	347.63
State	145.41	187.18	332.59	96%	-	12.88	4%	345.47
Local	2.16	0.00	2.16	100%	-	0.00	0%	2.16
Non-NHS	308.79	552.14	860.93	93%	NA	67.71	7%	928.64
Marked	247.96	512.45	760.41	94%	75%	47.92	6%	808.33
Unmarked	60.83	39.69	100.52	84%	50%	19.79	16%	120.31
District 9 Total:	574.83	777.45	1,352.28	93%	NA	107.77	7%	1,460.05

## International Roughness Index (IRI)

The International Roughness Index or IRI is a measurement of the longitudinal profile of a pavement surface. The IRI value represents the accumulation in inches of vertical movement per mile of a vehicle driving over a roadway surface.

The higher the IRI values, the rougher the ride. Typical IRI ranges include Good (below 95), Fair (95-170) and Poor (above 170). While lower IRI represents smoother riding pavement, additional measures of pavement distresses are needed to obtain a comprehensive assessment of pavement conditions.

IRI is collected by the DCVs when performing the CRS collection. IRI is not reported in areas of anomalous road conditions (non-final surfaces in construction zones for example) or locations where the DCV is driving at rate of speed that is below the operating threshold of the system.

There are roads for which it is not practical for the DCV to collect data. For example, roads with a gravel or dirt surface or roads in a remote location. In such cases, the roads will not have an IRI value collected by the DCV.

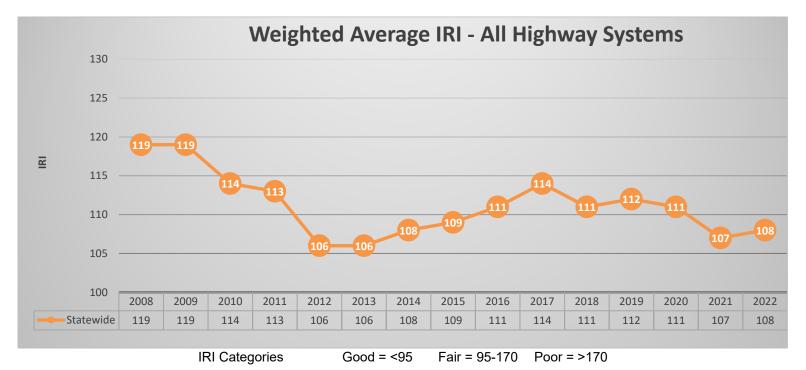
Roadways that were resurfaced after the CRS collection, and the CRS updated in IRIS, will not have an IRI value. The IRI will be collected in the next CRS cycle.

The weighted average IRI is used to indicate the overall ride quality of the state system. This value is obtained by multiplying miles of an IRI value by that IRI value, totaling these products, and then dividing the sum by the total miles. Roadways with a zero IRI are not included.

The following pages provide a breakdown of IRI values.

Weighted Average IRI - All Systems

District	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	185	187	170	161	152	150	158	156	155	155	151	149	150	149	149
2	121	126	125	115	110	108	104	111	109	117	115	120	118	115	114
3	103	100	99	97	95	100	100	98	98	106	105	107	107	93	93
4	109	108	98	98	84	84	92	91	98	98	98	98	100	99	104
5	102	101	97	96	96	96	97	97	102	102	101	101	103	103	104
6	101	103	103	102	93	97	97	102	101	107	107	111	111	106	106
7	110	112	112	110	105	101	99	106	106	111	111	111	111	99	99
8	104	104	105	108	98	97	98	98	106	106	97	95	94	94	97
9	84	84	86	91	87	87	89	89	95	95	84	83	79	79	75
Statewide	119	119	114	113	106	106	108	109	111	114	111	112	111	107	108



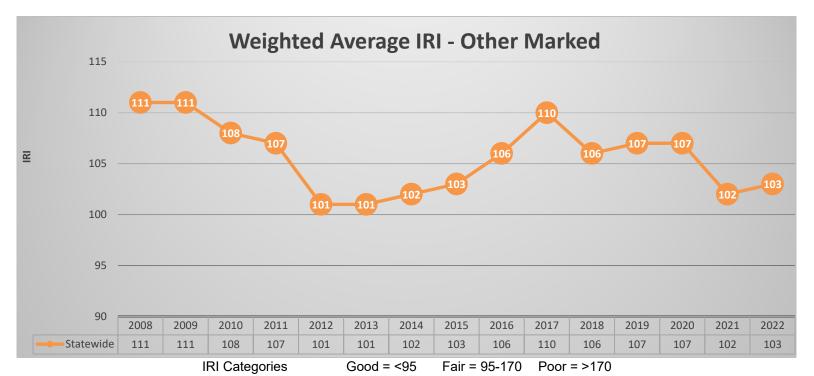
Weighted Average IRI - Interstate

District	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	96	96		84			80		92	91	86	90	85		83
2	81	81	74	71	66	66	66	56	58	58	58	59	53	56	57
3	79	79	75	69	66	66	67	66	67	67	67	68	66	68	69
4	79	77	68	63	61	61	65	65	64	64	61	65	54	52	49
5	73	73	70	66	55	55	55	55	61	61	55	56	51	52	53
6	65	63	64	61	56	56	54	53	53	53	56	57	53	53	54
7	63	63	64	59	65	65	55	53	52	52	55	54	53	51	49
8	81	81	81	75	70	64	68	67	69	69	70	74	64	65	67
9	69	69	69	68	60	60	64	64	57	57	60	60	56	55	54
Statewide	76	75	74	68	63	62	63	62	64	64	63	65	60	60	60



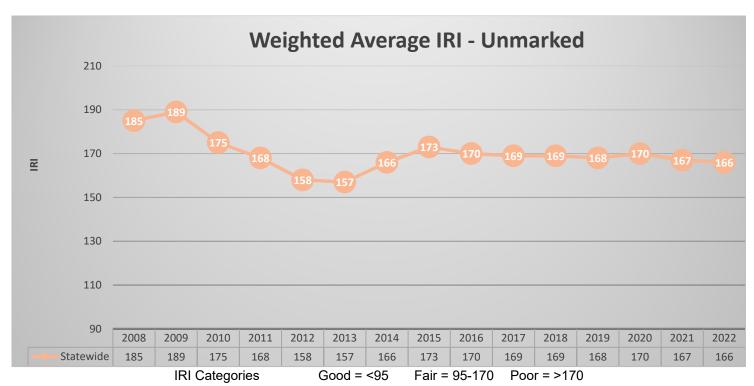
Weighted Average IRI - Other Marked

						ieu Ave	.ugo		·····	<u> </u>					
District	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	166	168	156	148	143	140	142	138	138	141	137	135	134	133	134
2	122	127	127	113	108	106	101	110	109	118	116	121	119	115	114
3	102	98	98	99	97	103	103	99	99	108	108	110	110	92	92
4	108	106	98	98	83	83	90	89	97	97	98	97	100	99	106
5	100	100	96	97	99	99	100	100	106	106	104	104	109	109	112
6	97	96	97	97	85	91	91	97	94	102	102	106	107	101	101
7	108	106	106	107	100	95	95	101	101	107	107	108	108	98	98
8	94	94	96	100	95	95	93	93	104	104	91	91	87	87	89
9	82	82	84	90	85	85	87	87	96	96	81	81	77	77	75
Statewide	111	111	108	107	101	101	102	103	106	110	106	107	107	102	103



Weighted Average IRI - Unmarked

District	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1	241	241	207	201	186	185	203	207	202	195	191	191	194	193	195
2	146	156	155	157	155	151	148	157	152	157	156	162	161	161	161
3	177	175	171	143	141	139	139	170	170	171	171	175	174	170	170
4	194	204	169	160	138	140	165	171	169	169	171	167	179	179	176
5	140	140	130	129	131	131	134	138	135	133	142	140	137	137	129
6	147	158	159	153	150	153	152	162	161	165	165	170	169	165	165
7	162	182	181	159	154	150	151	171	172	177	177	170	170	148	149
8	156	156	157	156	128	128	136	137	136	135	136	124	137	137	143
9	126	126	130	132	142	142	145	148	147	148	145	143	140	140	108
Statewide	185	189	175	168	158	157	166	173	170	169	169	168	170	167	166

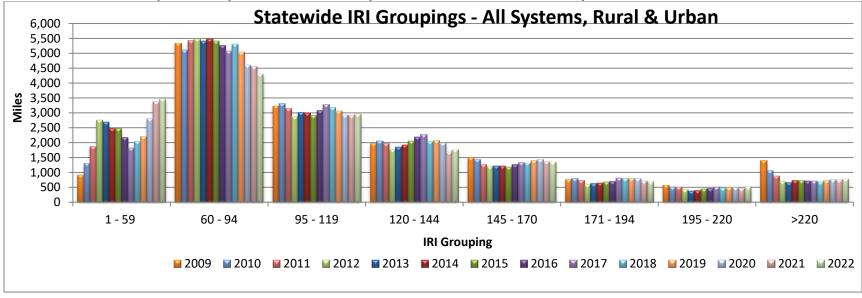


## **IRI Groupings**

	Rural Miles - Statewide - IRI Groupings    No IRI*   1 - 59   60 - 94   95 - 119   120 - 144   145 - 170   171 - 194   195 - 220   >220													
	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220					
Interstate	0.48	864.04	284.75	55.14	1.91	0.00	0.00	0.00	0.00					
Other Marked	0.10	1,788.32	2,640.92	1,770.29	794.06	565.51	224.30	149.98	61.57					
Unmarked	34.52	149.40	224.14	163.48	155.03	157.38	96.94	54.15	201.74					
Total	35.10	2,801.76	3,149.81	1,988.91	951.00	722.89	321.24	204.13	263.31					
		Llebo	n Milaa	Statavija	la IDI C	rounings								
	N. IDI#				le - IRI G	<u> </u>		405 000	. 000					
	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144			195 - 220	>220					
Interstate	1.66	288.62	293.26	66.23	21.30	15.58	0.00	0.00	0.00					
Other Marked	0.34	341.36	784.40	773.54	593.32	419.79	206.10	130.89	186.89					
Unmarked	19.67	38.63	82.40	132.86	197.61	186.55	160.49	174.90	339.13					
Total	21.67	668.61	1,160.06	972.63	812.23	621.92	366.59	305.79	526.02					
	F	Rural & U	rban Mil	es - State	ewide - II	RI Group	ings							
	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220					
All Systems	56.77	3,470.37	4,309.87	2,961.54	1,763.23	1,344.81	687.83	509.92	789.33					
*Data not availab	Data not available due to vaious DCV collection/operating constraints													
IRI Categories -	Good <95	Fair 95-170	Poor >170											

Statewide IRI

Year	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220
2009	352.30	920.48	5,340.29	3,235.76	1,972.71	1,499.11	767.04	570.49	1,396.73
2010	397.26	1,310.81	5,104.80	3,309.46	2,061.40	1,442.22	803.67	517.65	1,067.78
2011	166.57	1,872.46	5,426.35	3,153.45	1,971.39	1,275.76	736.66	502.81	888.77
2012	175.53	2,757.04	5,487.80	2,871.73	1,774.67	1,199.22	601.30	421.16	699.97
2013	132.48	2,686.52	5,420.88	3,012.05	1,852.50	1,222.56	624.54	372.17	660.17
2014	100.07	2,478.20	5,482.06	3,005.80	1,915.76	1,219.19	652.51	392.92	726.51
2015	72.00	2,476.38	5,420.64	2,906.03	2,052.43	1,178.42	675.38	450.15	726.26
2016	69.82	2,174.19	5,268.47	3,074.95	2,195.38	1,260.12	700.22	460.72	710.21
2017	66.56	1,819.95	5,079.33	3,275.76	2,273.95	1,339.96	812.52	510.10	719.18
2018	65.92	2,033.52	5,311.80	3,173.85	2,044.46	1,310.03	796.23	479.13	685.76
2019	60.83	2,200.99	5,051.74	3,064.66	2,072.80	1,409.91	805.54	494.13	737.12
2020	53.96	2,816.50	4,616.69	2,923.94	1,989.73	1,432.83	800.71	497.96	765.12
2021	52.59	3,377.57	4,560.75	2,920.03	1,684.81	1,368.78	721.90	454.66	752.26
2022	56.77	3,470.37	4,309.87	2,961.54	1,763.23	1,344.81	687.83	509.92	789.33
IRI Categories -		Go	od		Fair			Poor	



## Rural and Urban IRI Groupings by CRS Category

	Rur	al Statewi	de IRI Gro	upings –	Excellent	Condition	(CRS > 7.	5)	
	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220
Interstate	0.14	484.91	55.84	0.00	0.00	0.00	0.00	0.00	0.00
Other Marked	0.00	1,497.92	454.94	116.62	75.27	83.22	21.18	17.90	2.08
Unmarked	0.99	141.50	64.32	29.10	1.71	1.47	9.50	1.36	14.40
Total	1.13	2,124.33	575.10	145.72	76.98	84.69	30.68	19.26	16.48

	Urb	an Statew	ide IRI Gr	oupings –	Excellent	Condition	1 (CRS >7.	.5)	
	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220
Interstate	1.66	196.51	125.75	5.47	0.00	0.00	0.00	0.00	0.00
Other Marked	0.00	290.78	325.55	190.82	99.66	89.07	37.95	24.54	34.88
Unmarked	0.10	38.04	34.47	31.87	80.90	52.66	35.22	35.93	72.46
Total	1.76	525.33	485.77	228.16	180.56	141.73	73.17	60.47	107.34

	Rural and	d Urban S	tatewide I	RI Groupii	ngs – Exc	ellent Con	dition (CR	S >7.5)					
	No IRI* 1 - 59 60 - 94 95 - 119 120 - 144 145 - 170 171 - 194 195 - 220 >220												
All Systems 2.89 2,649.66 1,060.87 373.88 257.54 226.42 103.85 79.73 123.82													
IRI Categories - Good Fair Poor													
*Data not available due to various DCV collection/operating constraints													

	Rural Statewide IRI Groupings – Good Condition (4.5 < CRS < 6.1)												
	No IRI*	1 - 59	60 - 94	95 – 119	120 - 144	145 - 170	171 - 194	195 - 220	>220				
Interstate	0.00	262.64	46.64	23.14	0.91	0.00	0.00	0.00	0.00				
Other Marked	0.10	281.88	967.44	193.36	20.91	5.84	5.45	0.58	1.14				
Unmarked	1.84	4.71	69.51	24.80	37.26	17.25	10.76	3.58	12.20				
Total	1.94	549.23	1,083.59	241.30	59.08	23.09	16.21	4.16	13.34				

	Urban Statewide IRI Groupings – Good Condition (4.5 <crs 6.1)<="" <="" th=""></crs>												
No IRI* 1 - 59 60 - 94 95 - 119 120 - 144 145 - 170 171 - 194 195 - 220 >220													
Interstate	0.00	82.36	102.76	21.84	4.23	5.00	0.00	0.00	0.00				
Other Marked	0.10	49.85	289.22	297.13	181.40	106.68	55.26	18.55	37.19				
Unmarked	1.22	0.19	30.85	40.89	36.61	42.14	44.66	33.18	65.69				
Total	1.32	132.40	422.83	359.86	222.24	153.82	99.92	51.73	102.88				

	Rural and Urban Statewide IRI Groupings – Good Condition (4.5 <crs 6.1)<="" <="" th=""></crs>											
	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220			
All Systems	3.26	681.63	1,506.42	601.16	281.32	176.91	116.13	55.89	116.22			
IRI Categories -		Go	od		Fair			Poor				
*Data not availab	le due to various	s DCV collectio	n/operating con	straints								

	R	ural State	wide IRI G	roupings	– Poor Co	ndition (C	RS < 4.6)					
	No IRI* 1 - 59 60 - 94 95 - 119 120 - 144 145 - 170 171 - 194 195 - 220											
Interstate	0.34	109.38	131.33	21.31	0.00	0.00	0.00	0.00	0.00			
Other Marked	0.00	8.52	1,072.01	940.20	387.88	144.54	35.47	20.95	2.37			
Unmarked	8.86	3.19	78.55	69.34	78.66	51.26	36.27	22.26	31.21			
Total	9.20	121.09	1,281.89	1,030.85	466.54	195.80	71.74	43.21	33.58			

	U	<mark>rban State</mark>	wide IRI G	<mark>Froupings</mark>	- Poor Co	ondition (0	CRS < 4.6)		
	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220
Interstate	0.00	9.75	57.27	34.40	12.10	5.59	0.00	0.00	0.00
Other Marked	0.16	0.73	157.31	195.56	209.07	141.68	56.30	52.96	52.31
Unmarked	1.25	0.40	14.01	46.91	58.30	60.14	59.35	75.09	140.74
Total	1.41	10.88	228.59	276.87	279.47	207.41	115.65	128.05	193.05

	Rural and Urban Statewide IRI Groupings – Poor Condition (CRS < 4.6)											
	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220			
All Systems	10.61	131.97	1,510.48	1,307.72	746.01	403.21	187.39	171.26	226.63			
IRI Categories -		Go	ood		Fair			Poor				
*Data not availabl	Data not available due to various DCV collection/operating constraints											

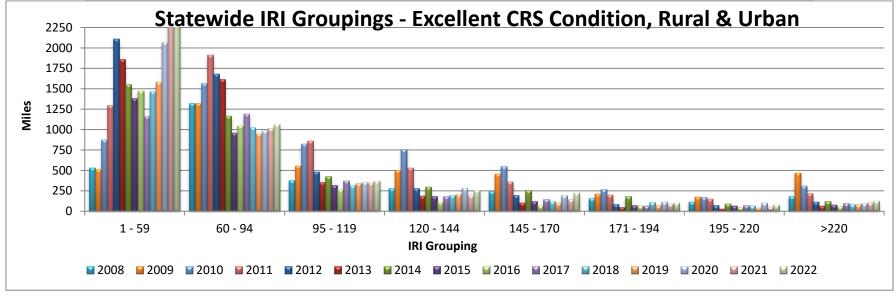
	R	ural State	wide IRI G	roupings	– Poor Co	ondition (C	CRS < 4.6)		
	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220
Interstate	0.00	7.11	50.94	10.69	1.00	0.00	0.00	0.00	0.00
Other Marked	0.00	0.00	146.53	520.11	310.00	331.91	162.20	110.55	55.98
Unmarked	17.39	0.00	11.73	40.14	37.29	87.22	40.41	26.18	143.09
Total	17.39	7.11	209.20	570.94	348.29	419.13	202.61	136.73	199.07

	Urban Statewide IRI Groupings – Poor Condition (CRS < 4.6)												
	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220				
Interstate	0.00	0.00	7.48	4.52	4.97	4.99	0.00	0.00	0.00				
Other Marked	0.00	0.00	12.32	90.03	103.19	82.36	56.59	34.84	62.51				
Unmarked	13.38	0.00	3.07	13.19	21.73	31.61	21.26	30.70	59.41				
Total	13.38	0.00	22.87	107.74	129.89	118.96	77.85	65.54	121.92				

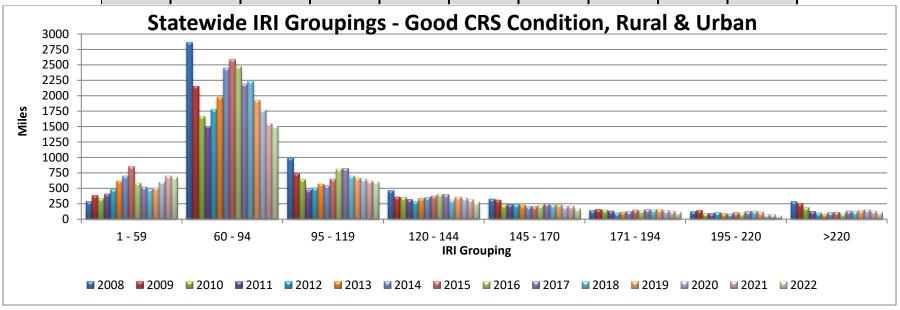
	Rural and Urban Statewide IRI Groupings – Poor Condition (CRS < 4.6)											
	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220			
All Systems	30.77	7.11	232.07	678.68	478.18	538.09	280.46	202.27	320.99			
IRI Categories -		Go	ood		Fair			Poor				
*Data not availabl	e due to various	DCV collection	n/operating cons	straints	_		_	_				

**IRI Groupings by CRS Category** 

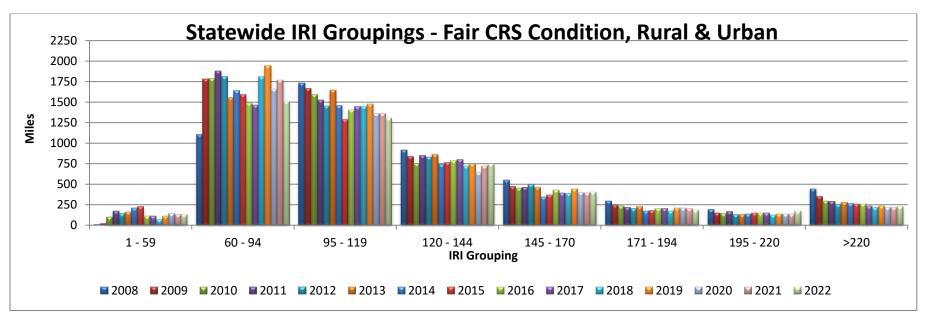
				oupings b	y one oat	cgory			_
2008	138.22	532.85	1,317.21	378.43	280.34	245.22	158.98	116.01	182.41
2009	257.62	514.97	1,320.56	552.95	501.24	454.76	213.58	178.17	468.99
2010	312.83	873.10	1,564.12	852.33	756.70	550.03	263.56	171.72	310.59
2011	73.86	1,293.07	1,913.73	862.38	531.36	359.68	199.30	150.57	217.75
2012	73.83	2,107.61	1,679.39	483.07	278.46	194.95	85.55	71.33	112.48
2013	48.33	1,858.34	1,613.45	354.78	184.52	101.16	49.53	25.75	64.22
2014	28.73	1,553.19	1,166.10	426.02	295.42	255.16	180.07	88.96	116.97
2015	5.04	1,383.93	956.81	312.56	183.86	122.74	72.74	63.15	77.76
2016	1.68	1,474.21	1,045.88	265.75	114.32	71.28	66.15	48.46	58.91
2017	1.92	1,163.07	1,193.13	371.32	182.76	143.14	62.76	72.20	94.98
2018	1.65	1,463.92	1,024.12	315.34	190.07	121.89	105.43	64.88	81.56
2019	2.49	1583.67	944.45	339.15	204.74	103.54	73.74	37.55	80.52
2020	0.97	2,065.13	982.90	353.95	283.85	191.13	116.27	100.40	94.98
2021	0.56	2,545.99	1,011.82	344.10	192.10	147.34	88.16	50.27	103.18
2022	2.89	2,649.66	1,060.87	373.88	257.54	226.42	103.85	79.73	123.82



State	wide IRI	Groupin	ıgs – Go	od CRS	Conditio	n, All Sy	stems, F	Rural & U	Irban
Year	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220
2008	40.65	283.99	2,862.57	989.96	467.26	327.01	143.19	125.87	285.70
2009	13.71	386.54	2,153.70	741.87	356.96	312.86	159.16	142.96	255.43
2010	7.68	335.63	1,662.79	643.05	349.07	230.25	149.26	94.77	186.70
2011	14.77	407.12	1,506.85	472.21	317.04	235.20	134.18	93.40	122.97
2012	8.07	484.81	1,779.76	504.68	290.03	236.54	102.82	105.48	99.56
2013	14.03	620.24	1,977.11	572.18	333.54	226.41	120.05	92.18	81.10
2014	9.67	696.92	2,452.04	548.18	350.88	203.94	122.05	85.79	104.63
2015	7.38	850.08	2,584.98	649.12	374.20	203.65	150.42	105.91	113.58
2016	5.63	586.82	2,476.46	810.78	404.34	223.83	142.61	104.29	99.22
2017	5.69	520.06	2,192.77	823.43	402.07	255.30	157.69	123.02	135.32
2018	3.47	492.13	2,239.74	701.50	311.45	230.66	148.67	129.75	123.28
2019	1.66	503.92	1929.32	671.6	360.39	237.64	157.01	119.31	142.84
2020	2.84	598.91	1,772.98	650.47	343.36	207.16	142.29	78.53	157.85
2021	2.87	701.74	1,554.74	619.45	322.58	215.33	130.43	74.91	135.79
2022	3.26	681.63	1,506.42	601.16	281.32	176.91	116.13	55.89	116.22



Stat	ewide IR	<mark>l Groupi</mark>	<mark>ngs – Fa</mark>	ir CRS C	ondition	n, All Sys	tems, R	ural & Ur	ban
Year	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220
2008	60.12	7.69	1,106.58	1,732.11	920.55	549.33	297.91	190.43	440.89
2009	34.87	18.97	1,781.62	1,669.07	838.28	476.05	246.23	147.40	351.10
2010	31.11	102.08	1,791.12	1,594.85	754.82	451.82	233.83	141.35	298.65
2011	35.81	172.10	1,879.14	1,526.45	852.25	463.07	217.57	165.28	287.60
2012	46.00	142.31	1,810.09	1,453.17	830.64	495.57	202.13	129.56	255.83
2013	24.13	164.44	1,557.40	1,651.96	860.19	463.39	228.37	132.35	275.81
2014	23.23	213.24	1,642.54	1,462.01	743.86	343.49	174.80	137.50	267.28
2015	21.56	227.78	1,591.91	1,291.74	763.74	369.62	183.46	147.90	262.59
2016	37.42	0.29	254.97	596.24	887.24	532.45	289.38	158.27	293.96
2017	20.77	111.49	1,464.15	1,448.69	803.08	390.90	201.34	147.06	233.66
2018	16.83	71.54	1,815.27	1,449.89	720.73	389.05	173.37	126.42	216.71
2019	10.42	113.09	1945.77	1479.11	749.69	443.44	209.87	139.84	232.97
2020	10.42	142.83	1,657.95	1,363.04	640.95	402.25	212.85	136.61	215.26
2021	10.25	128.69	1,772.02	1,360.87	723.11	393.04	206.39	137.88	219.02
2022	10.61	131.97	1,510.48	1,307.72	746.01	403.21	187.39	171.26	226.63



State	wide IRI	Groupin	ngs – Po	or CRS	Conditio	n, All Sy	stems, R	ural & U	rban
Year	No IRI*	1 - 59	60 - 94	95 - 119	120 - 144	145 - 170	171 - 194	195 - 220	>220
2008	99.23	0.00	72.37	263.49	419.67	316.85	204.04	169.71	346.48
2009	46.10	0.00	84.41	271.87	276.23	255.44	148.07	101.96	321.21
2010	45.64	0.00	86.77	219.23	200.81	210.12	157.02	109.81	271.84
2011	41.51	0.17	126.63	292.41	270.74	217.81	185.61	93.54	260.45
2012	42.54	22.31	215.38	430.81	375.54	272.16	210.80	114.79	232.10
2013	45.99	43.50	272.92	433.13	474.25	431.60	226.59	121.89	239.04
2014	38.06	14.85	221.38	569.59	525.60	416.60	175.59	80.67	237.63
2015	35.13	14.59	286.94	652.61	730.63	482.41	268.76	133.19	272.33
2016	37.42	0.29	254.97	596.24	887.24	532.45	289.38	158.27	293.96
2017	32.97	25.33	229.28	632.32	886.04	550.62	390.73	167.82	255.22
2018	36.68	5.93	232.67	707.12	822.21	568.43	368.76	158.08	263.43
2019	23.58	0.15	232.20	574.68	756.59	625.10	364.72	192.80	260.97
2020	28.83	9.63	202.83	556.34	721.46	632.11	329.21	182.42	295.65
2021	31.12	1.15	222.14	595.51	446.69	612.89	296.92	191.60	293.29
2022	30.77	7.11	232.07	678.68	478.18	538.09	280.46	202.27	320.99

