



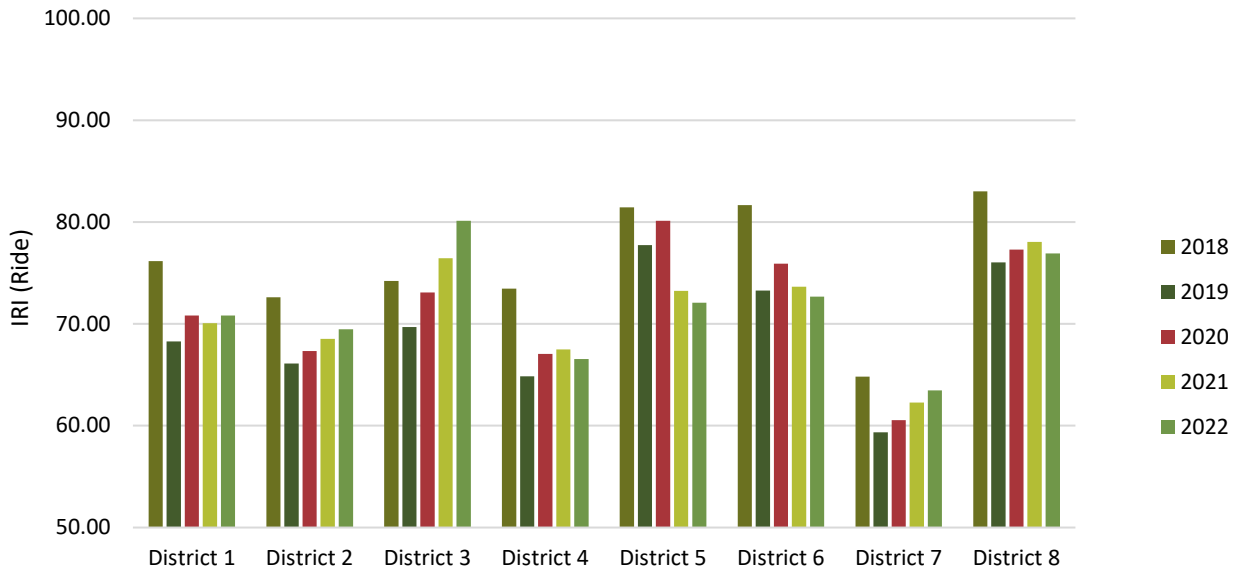
# ROADWAY DIAGNOSTICS REPORT

PLANNING/ASSET MANAGEMENT DIVISION

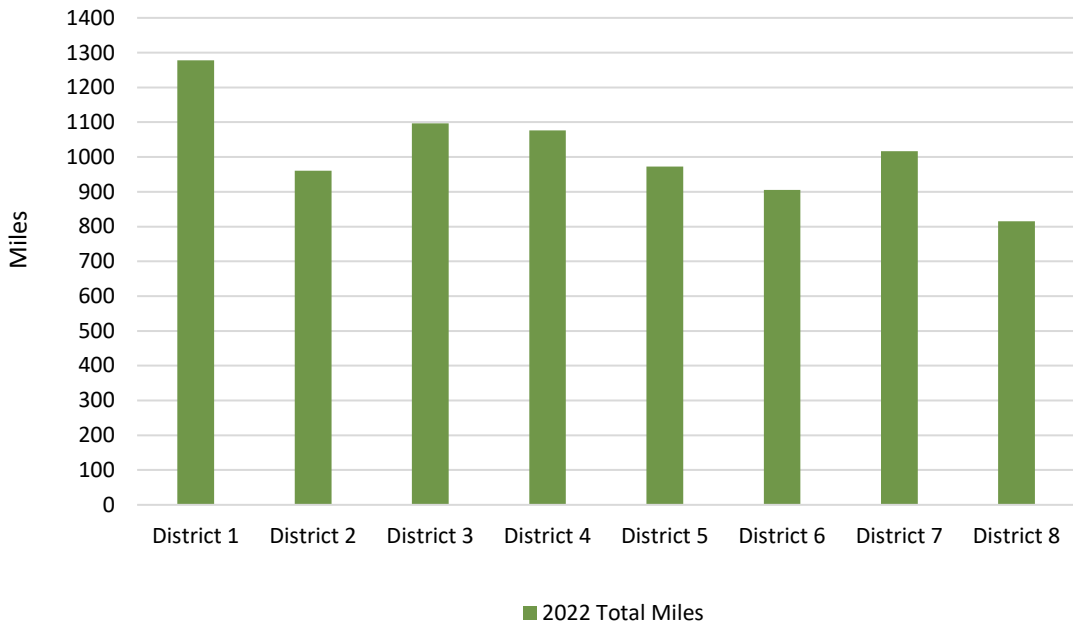
PAVEMENT MANAGEMENT SECTION

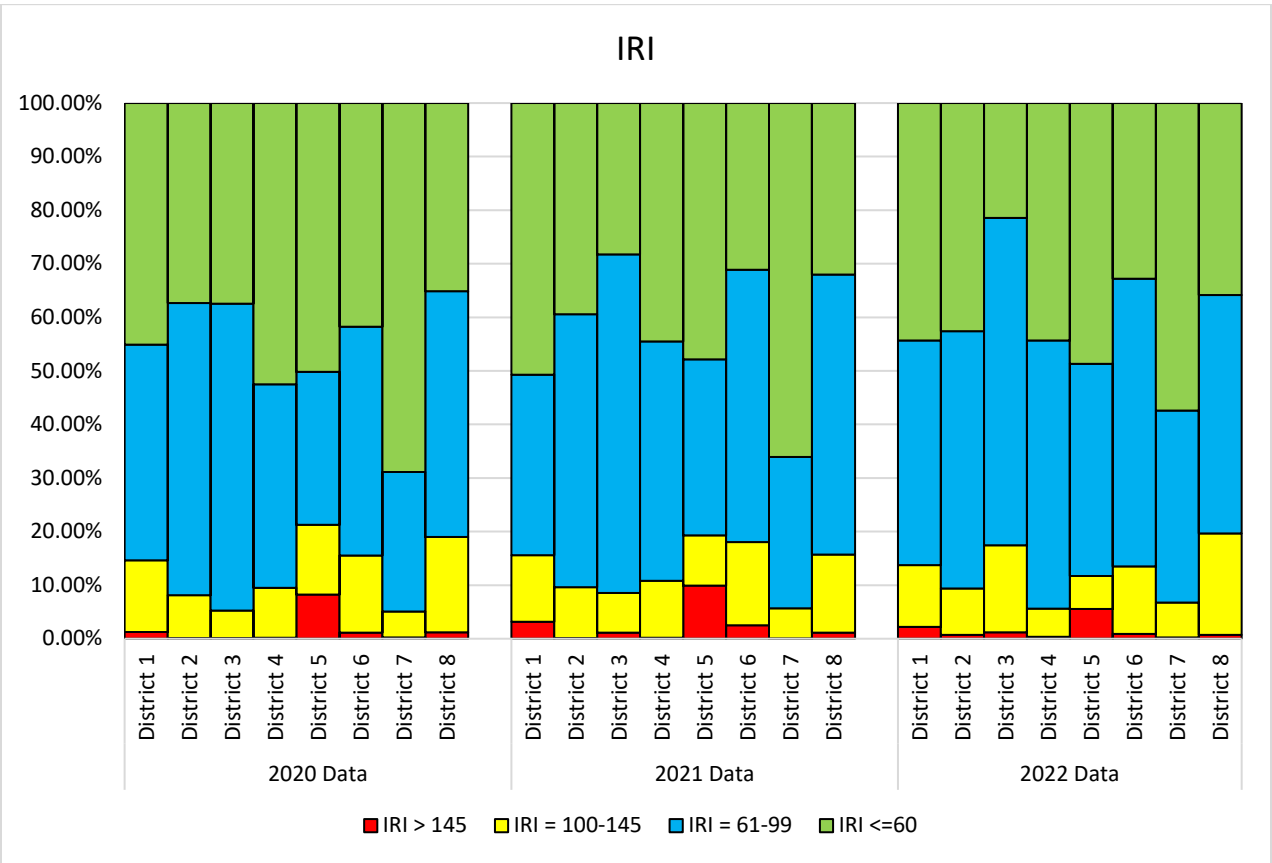
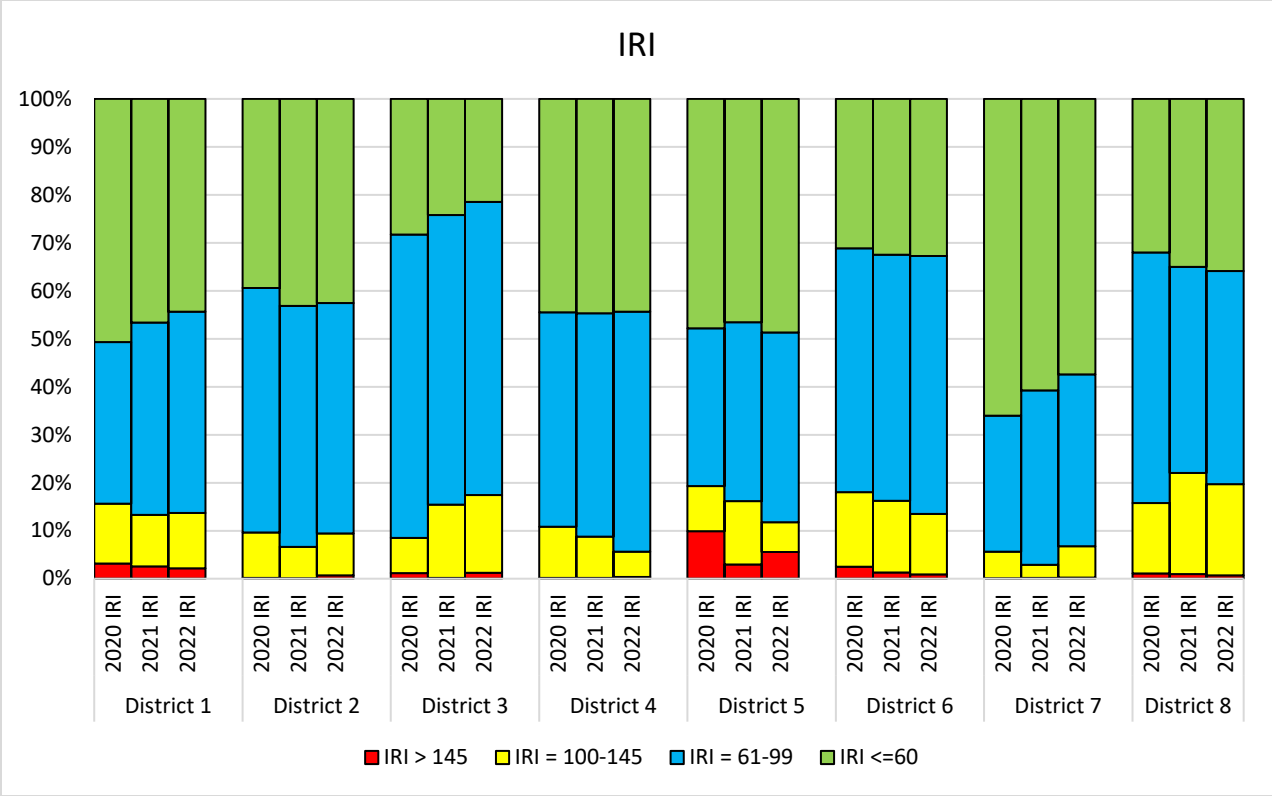
JULY 2023

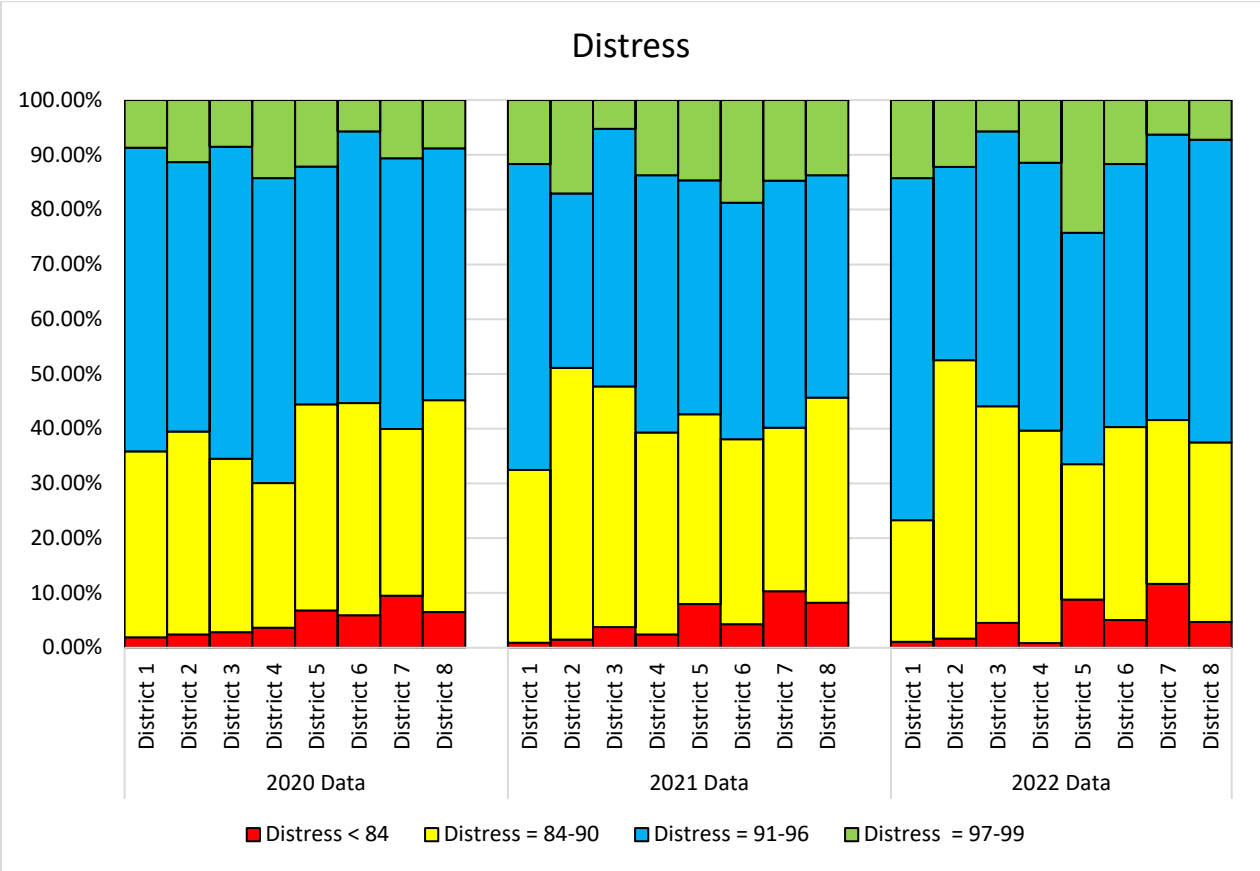
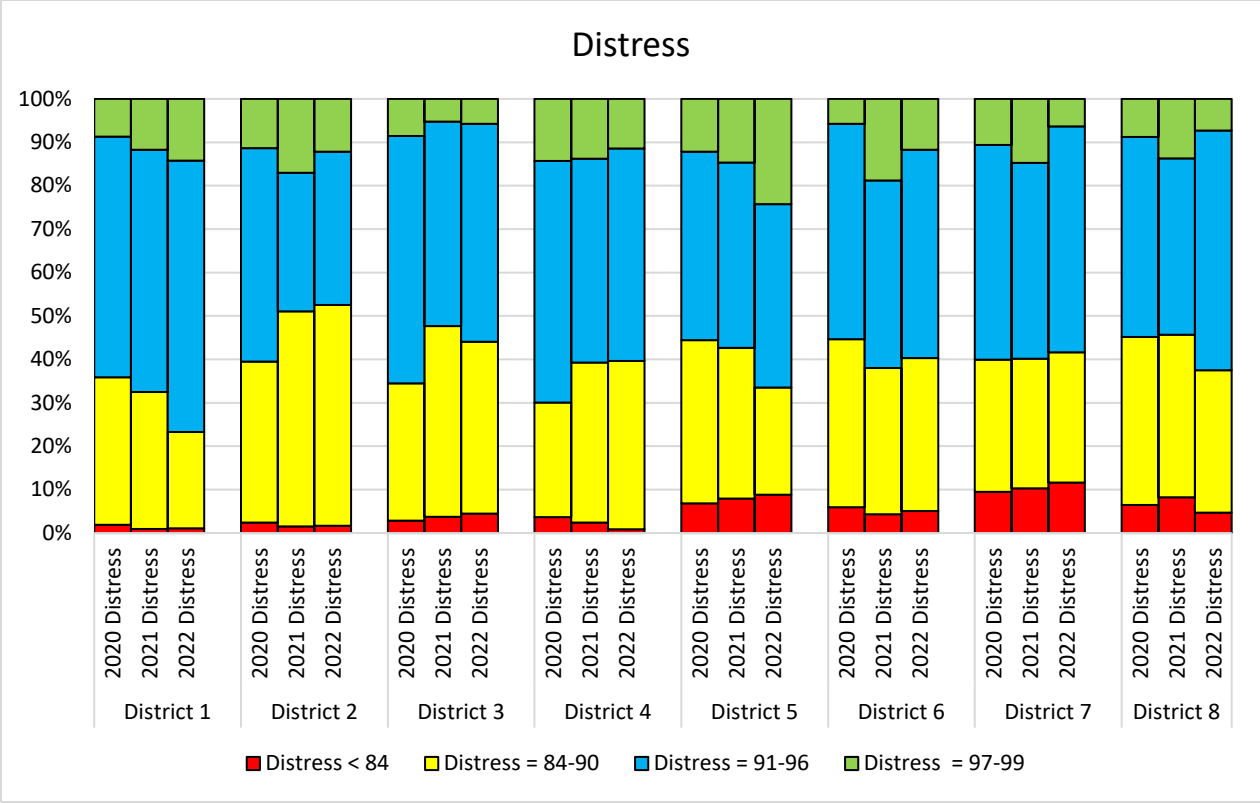
### HIGHWAY SYSTEM CONDITION



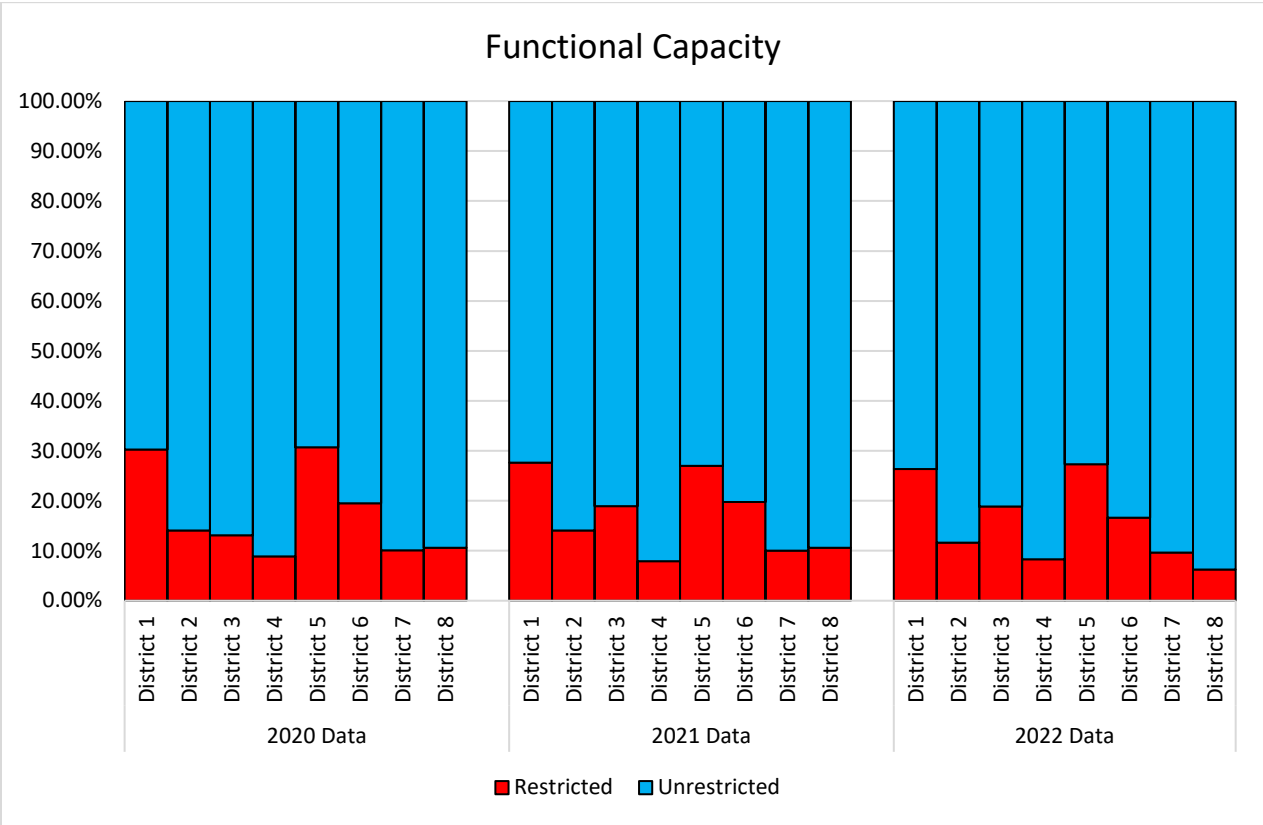
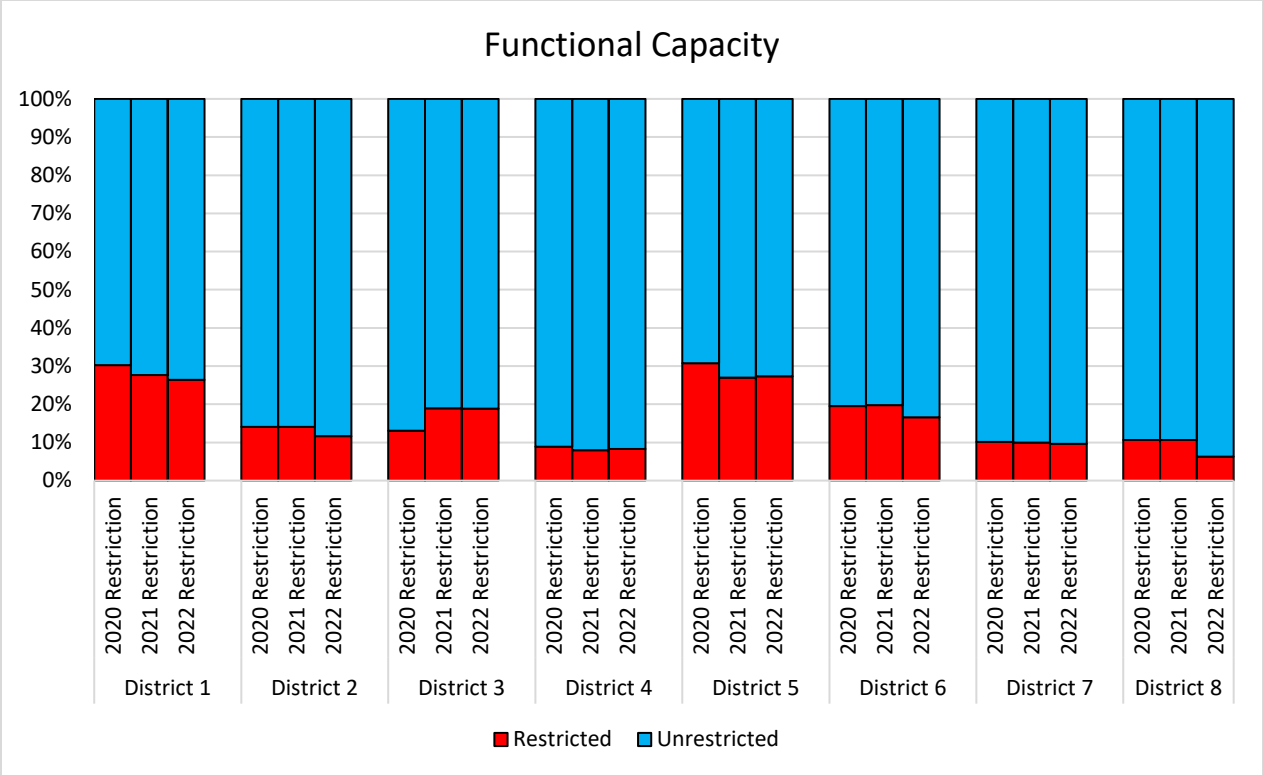
### Total Miles By District



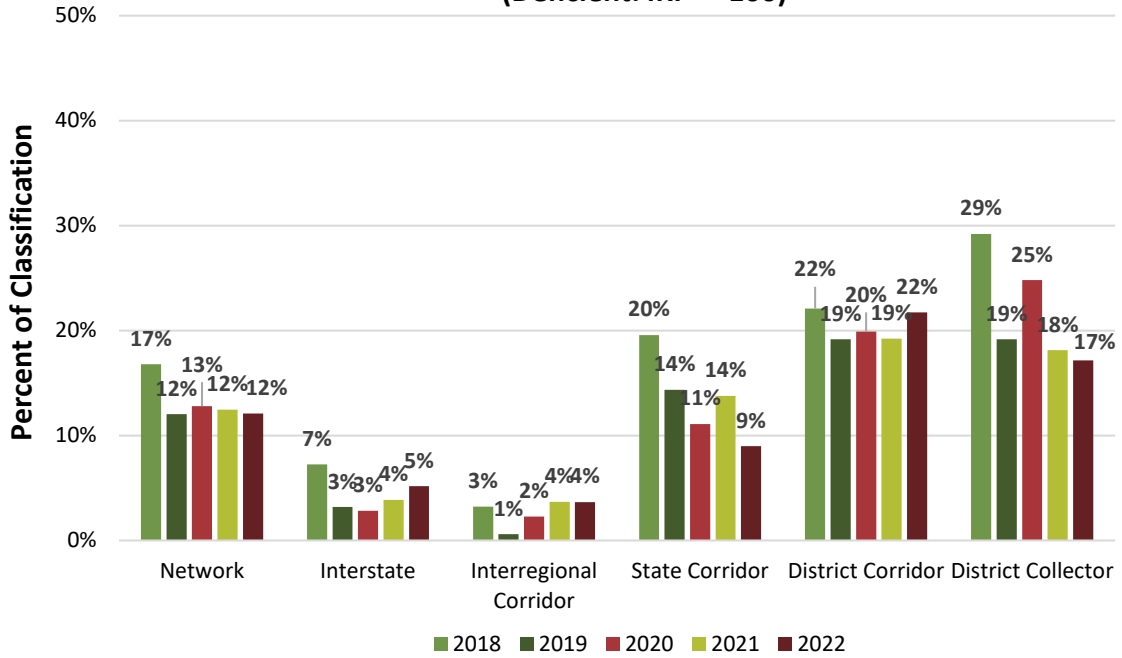




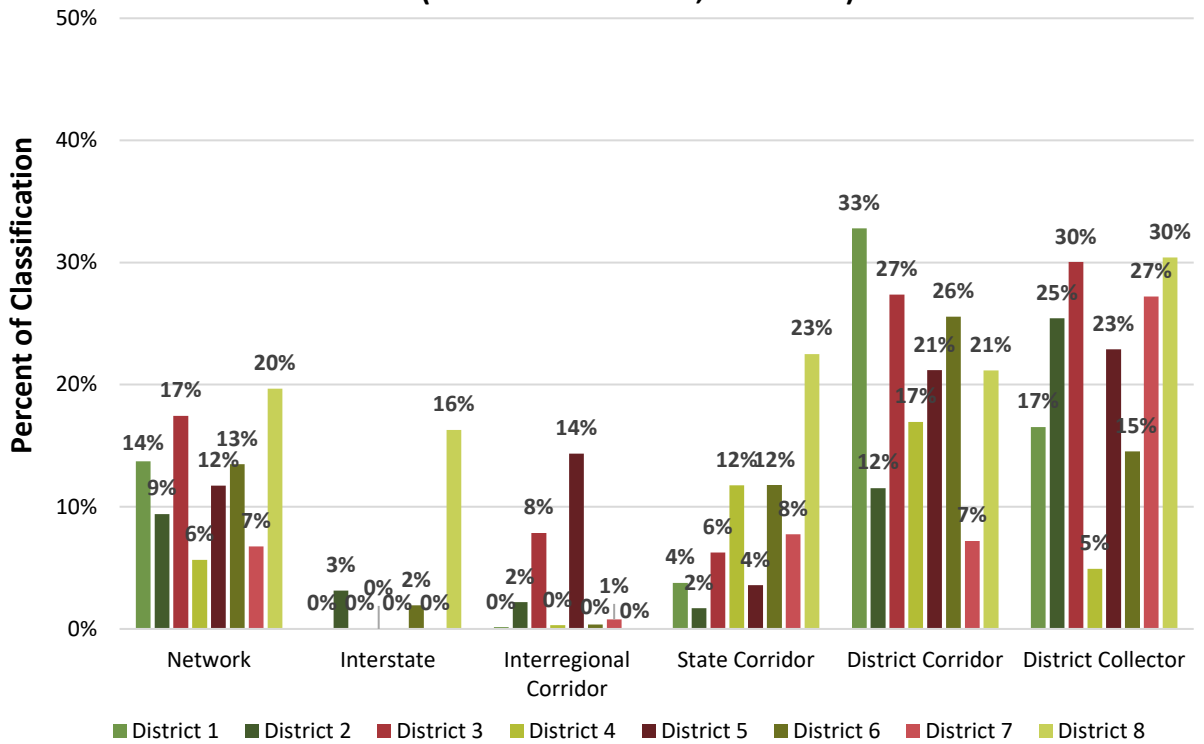


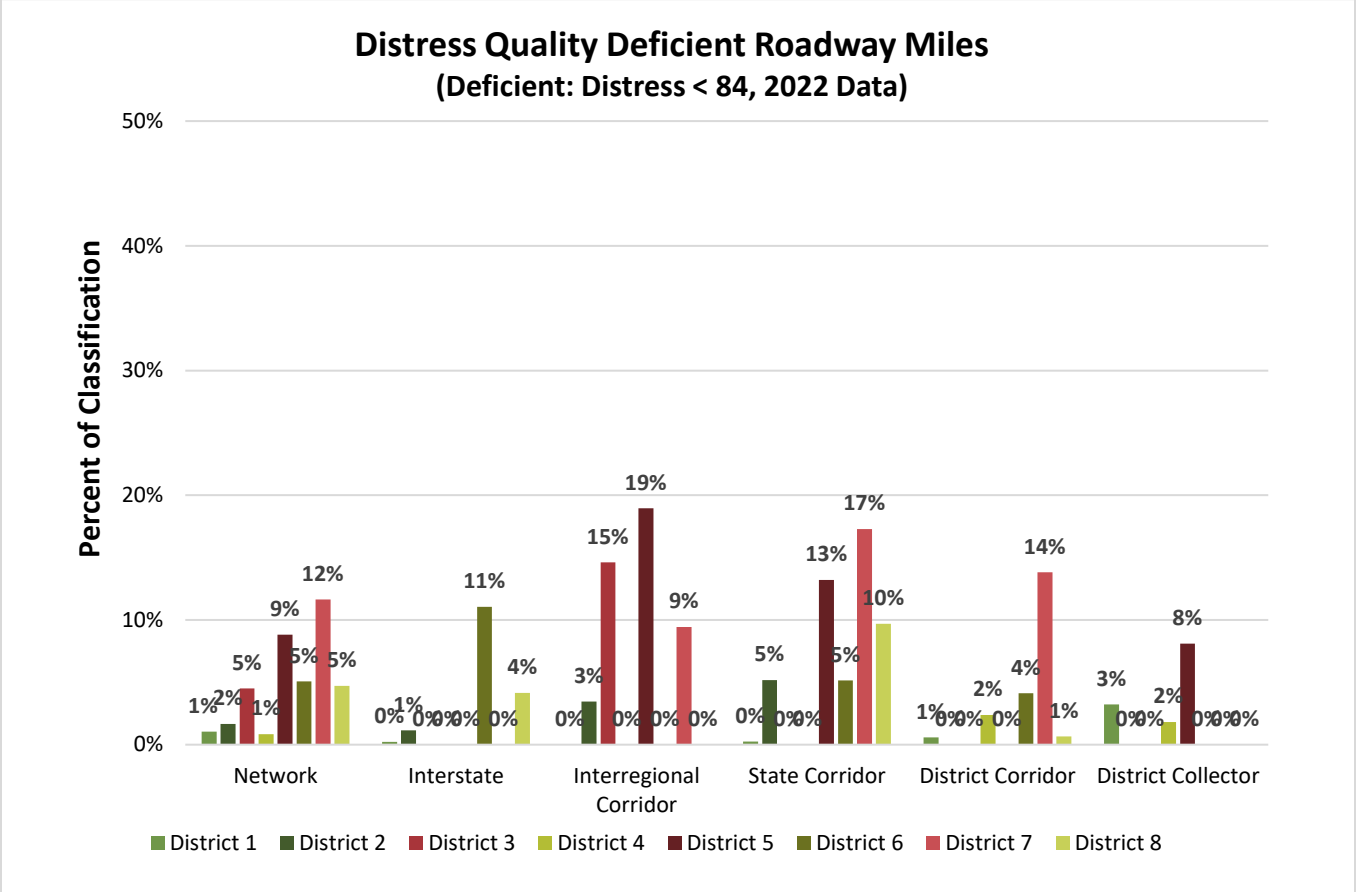
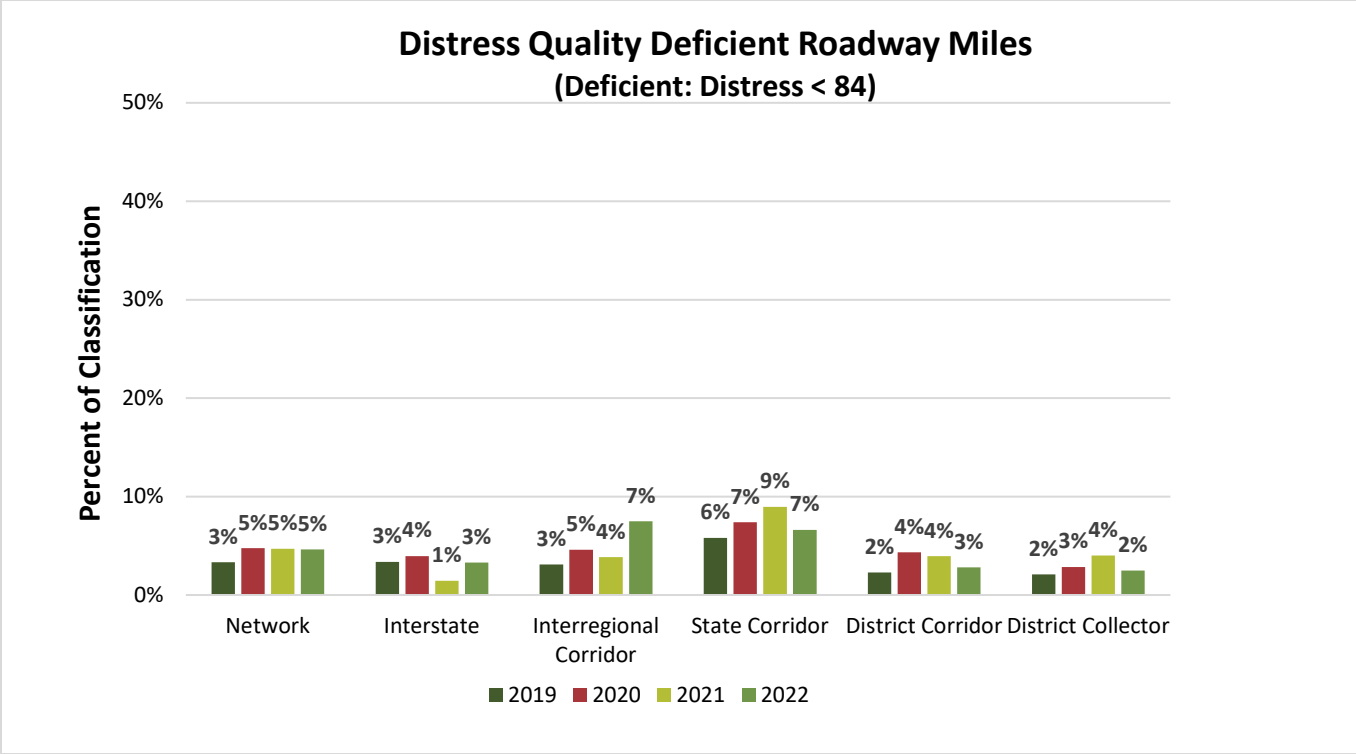


### Ride Quality Deficient Roadway Miles (Deficient: IRI >= 100)

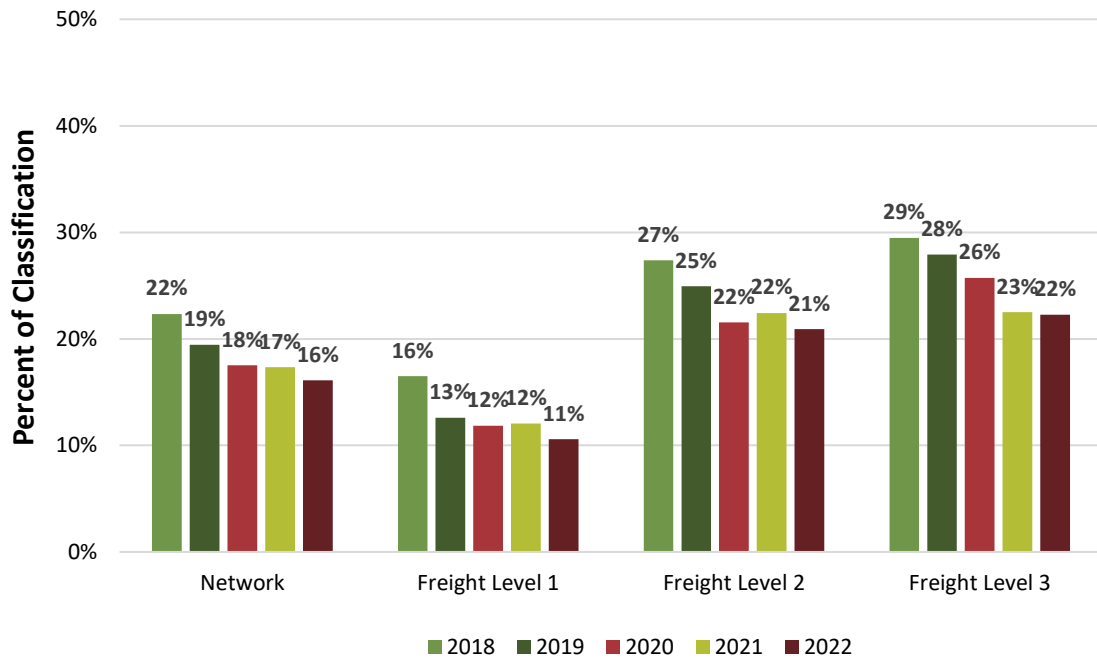


### Ride Quality Deficient Roadway Miles (Deficient: IRI >= 100, 2022 Data)

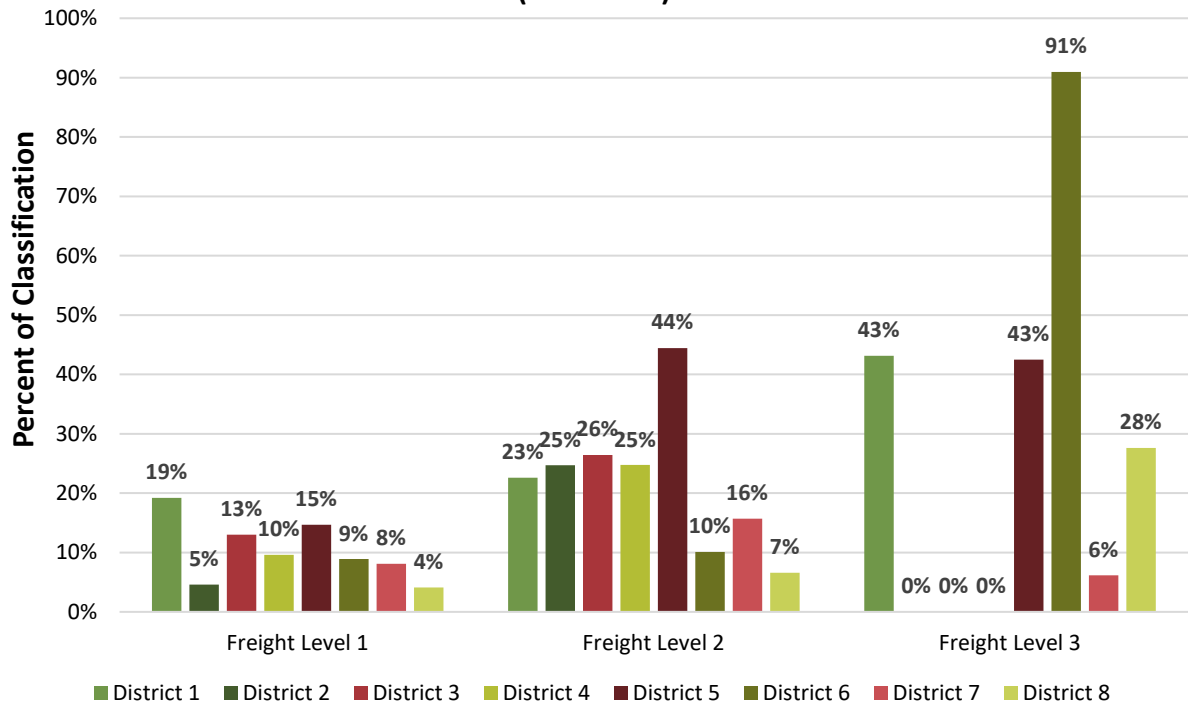




### Functional Capacity Restricted Roadway Miles



### Functional Capacity Restricted Roadway Miles (2022 Data)



Functional Capacity Restriction Values:

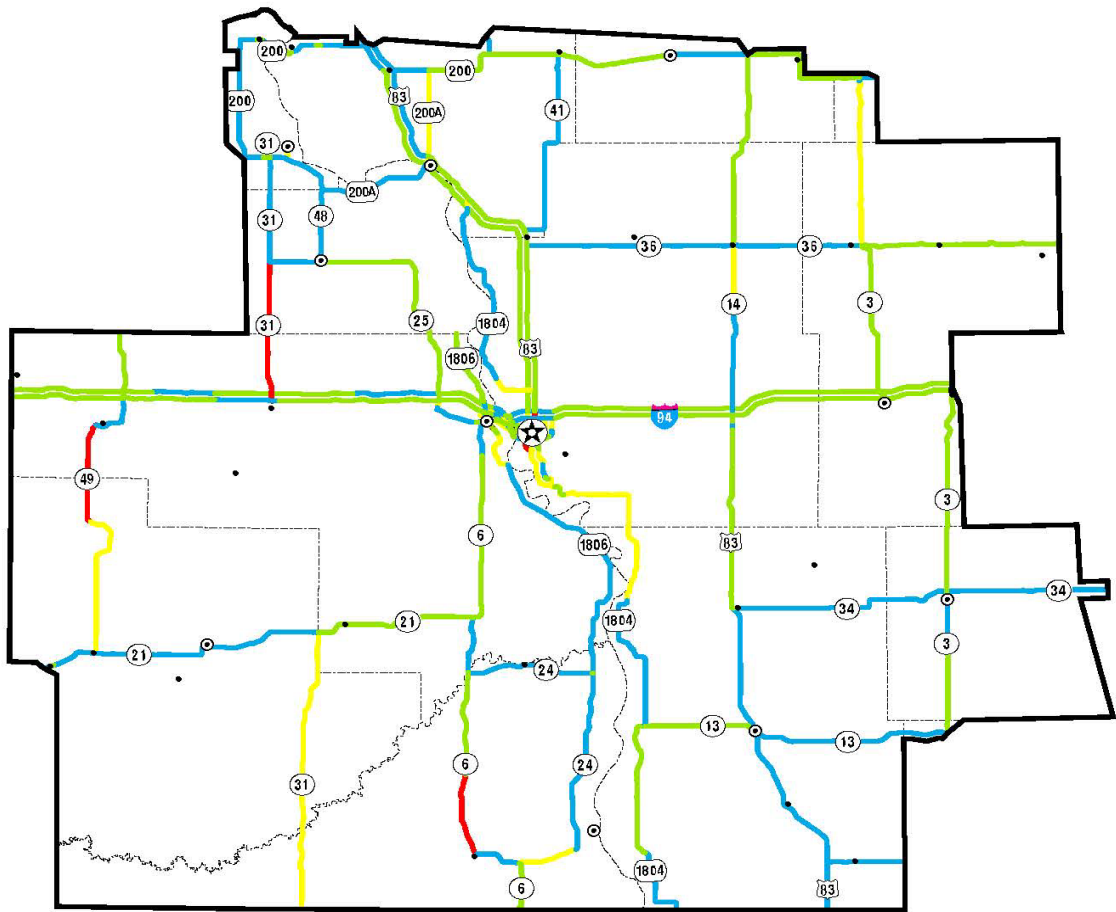
Restriction:	Interstate	Interregional 4-Lane	Level 1 Freight Class	Level 2 Freight Class	Level 3 Freight Class
Struc_Height	< 16.0	< 16.0	< 16.0	< 15.0	< 15.0
Struc_Widen	< 32.0	< 32.0	< 28.0	< 26.0	< 24.0
Load_Limit	<= 8.0	<= 8.0	<= 8.0	< 8.0	< 7.0
Travel_Way	< 32.0	< 32.0	< 28.0	< 26.0	< 24.0
Capacity	$v > 21,100 * \text{Number of Lanes};$ $v = \text{AADT} / f_{HV}$ $f_{HV} = 1 / (1 + P_{HV} * (E_{HV} - 1))$ $P_{HV} = \text{TAADT} / \text{AADT}$ $E_{HV} = 2$	$v > 20,800 * \text{Number of Lanes};$ $v = \text{AADT} / f_{HV}$ $f_{HV} = 1 / (1 + P_{HV} * (E_{HV} - 1))$ $P_{HV} = \text{TAADT} / \text{AADT}$ $E_{HV} = 2$	Rolling Terrain: AADT > 12,600  Level Terrain: AADT > 13,400	Rolling Terrain: AADT > 12,600  Level Terrain: AADT > 13,400	Rolling Terrain: AADT > 12,600  Level Terrain: AADT > 13,400



# DISTRICT 1

Bismarck, ND

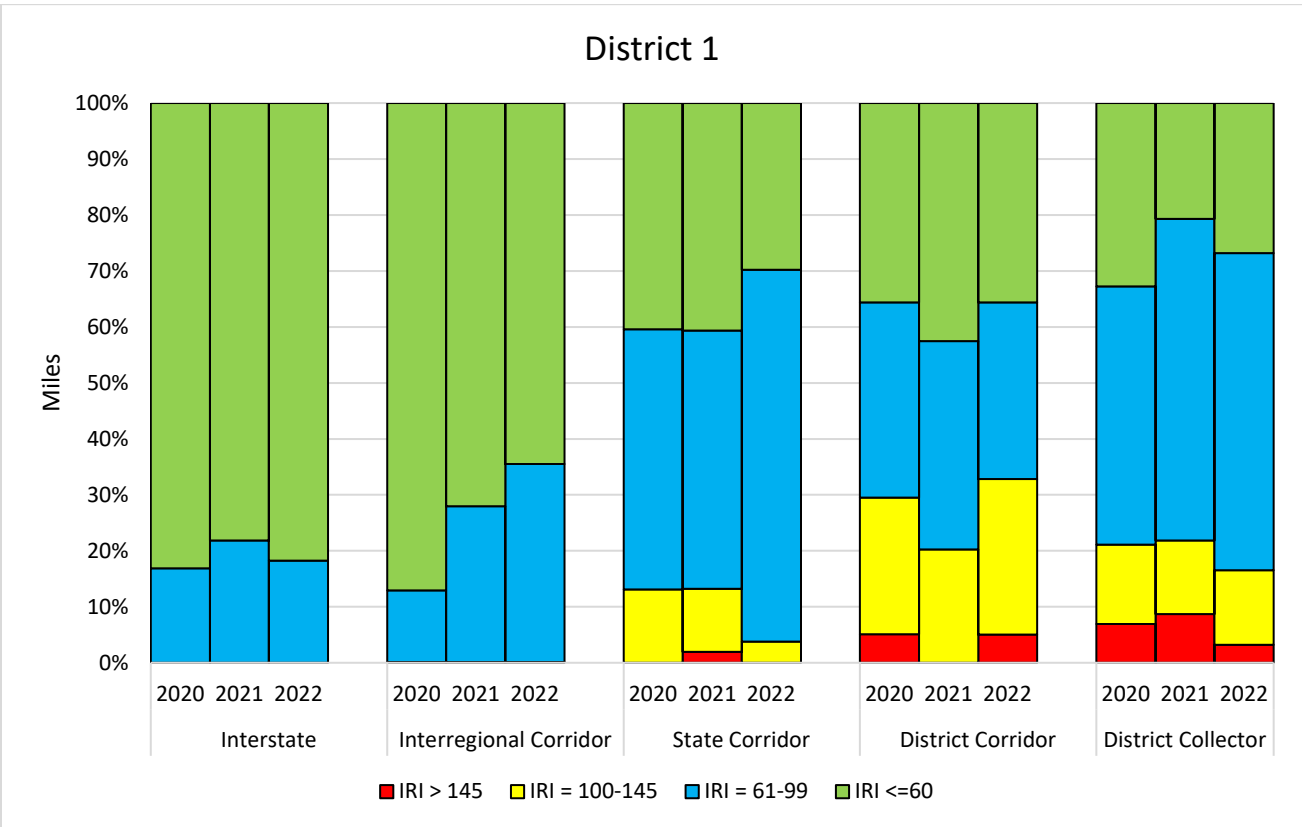
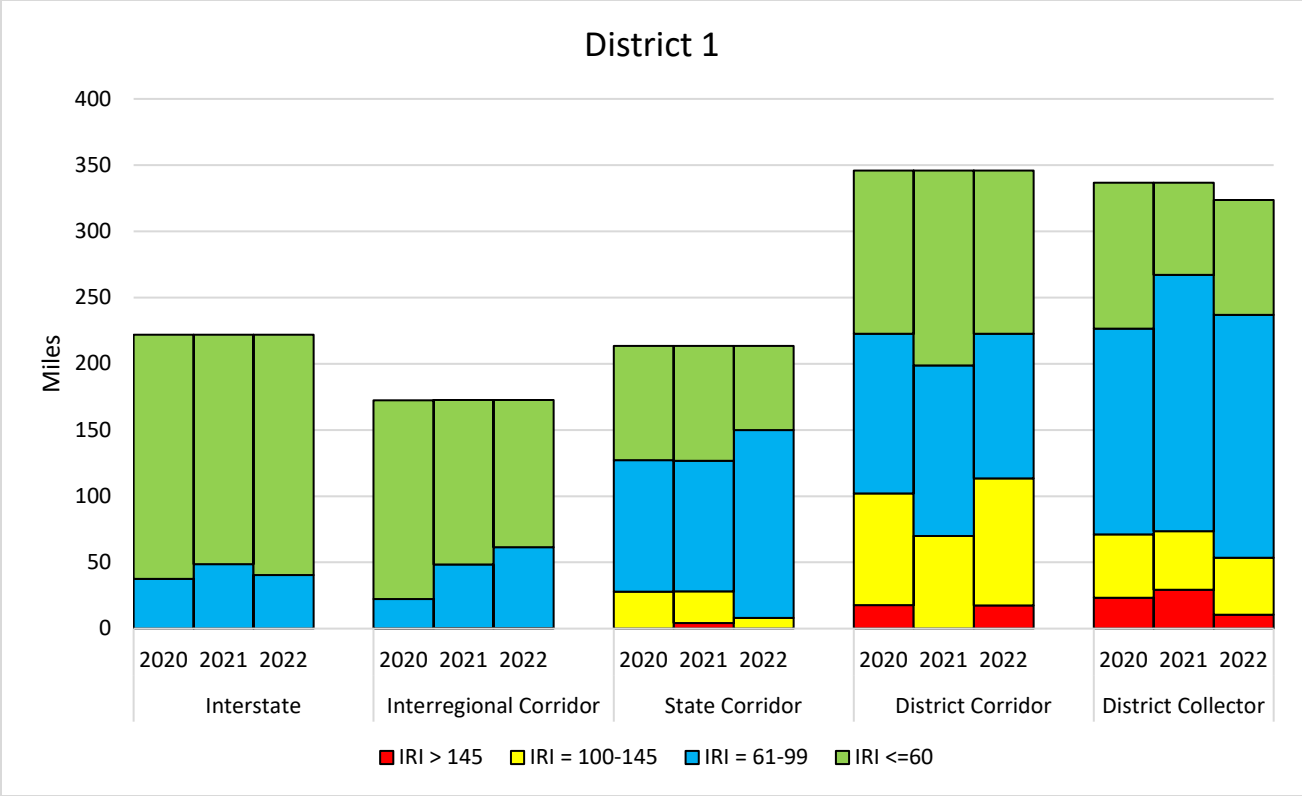
# BISMARCK DISTRICT



## 2022 IRI

- 0 - 60, EXCELLENT
- 60.1 - 99, GOOD
- 99.1 - 145, FAIR
- > 145.1, POOR





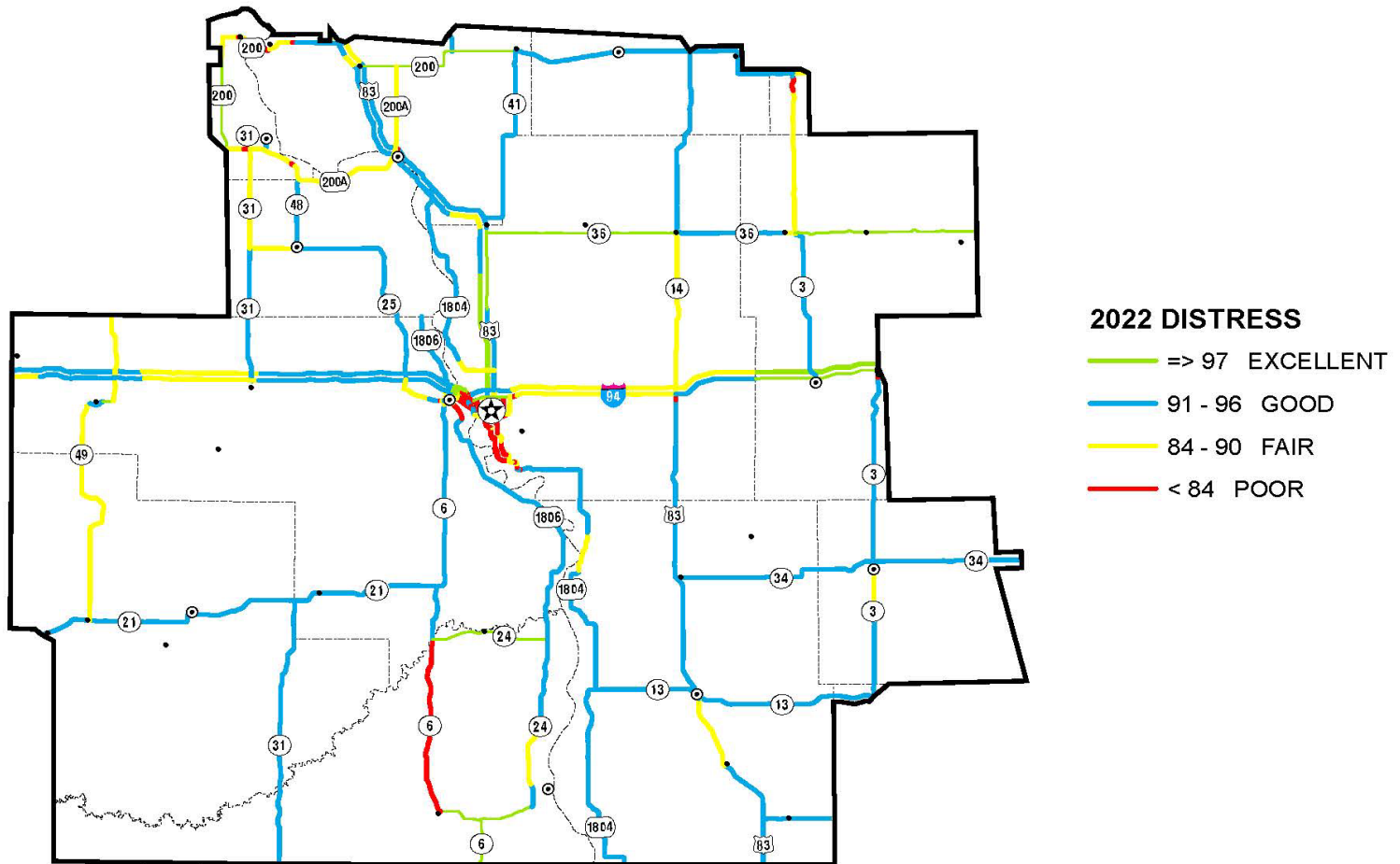
# IRI

2022	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	221.94	181.48	40.46	0	0	81.77%	18.23%	0.00%	0.00%
Interregional Corridor	172.75	111.39	61.1	0.26	0	64.48%	35.37%	0.15%	0.00%
State Corridor	213.54	63.63	141.88	8.03	0	29.80%	66.44%	3.76%	0.00%
District Corridor	345.81	123.19	109.17	95.99	17.46	35.62%	31.57%	27.76%	5.05%
District Collector	323.72	86.73	183.46	43.05	10.48	26.79%	56.67%	13.30%	3.24%

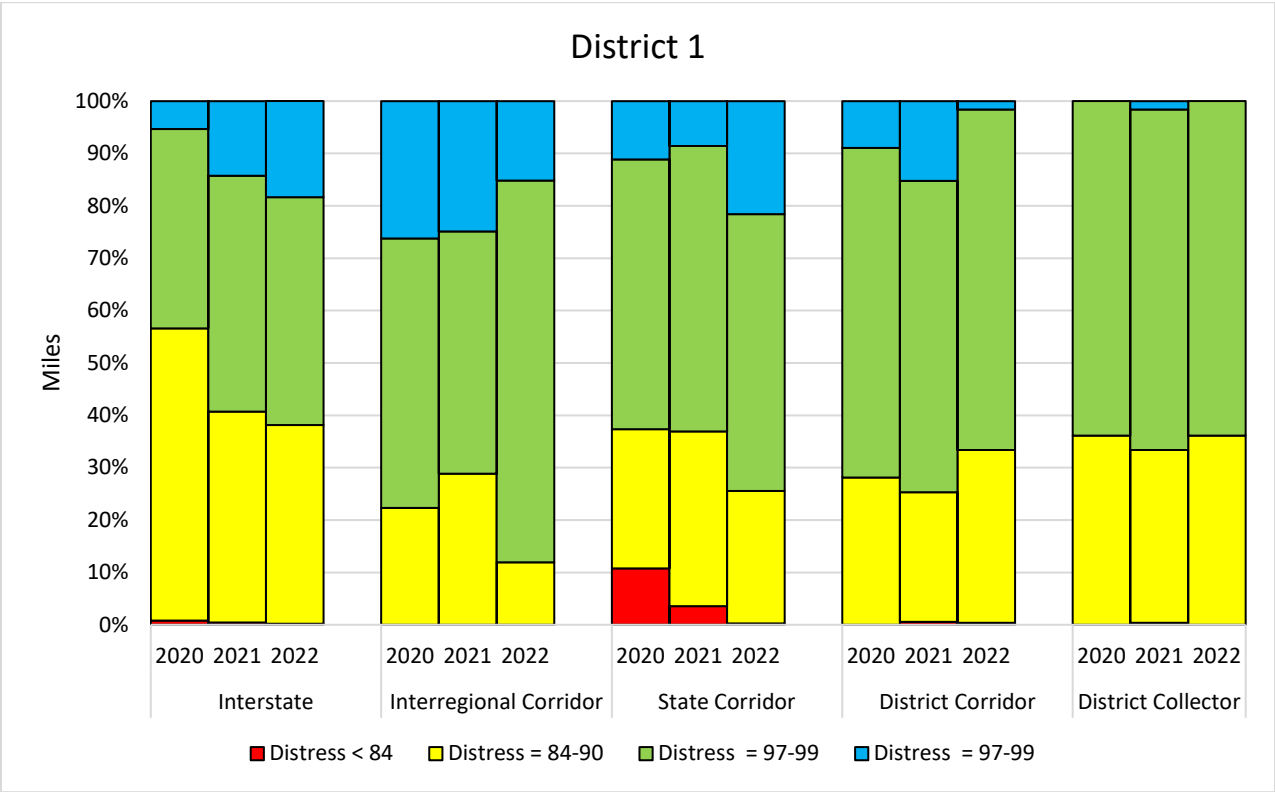
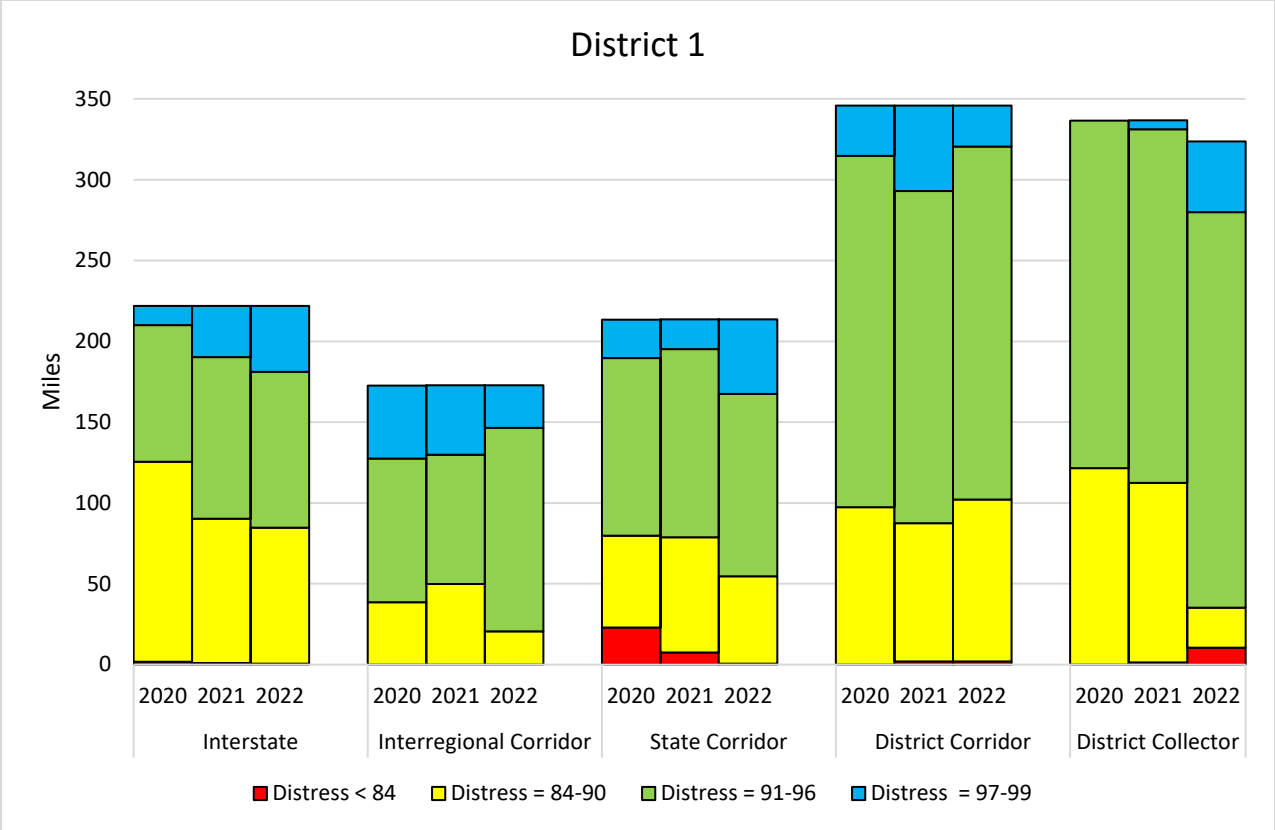
2021	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	221.94	173.39	48.55	0	0	78.12%	21.88%	0.00%	0.00%
Interregional Corridor	172.75	124.39	48.1	0.26	0	72.01%	27.84%	0.15%	0.00%
State Corridor	213.54	86.77	98.54	24.06	4.18	40.63%	46.15%	11.27%	1.96%
District Corridor	345.81	147.11	128.77	69.93	0	42.54%	37.24%	20.22%	0.00%
District Collector	336.69	69.61	193.46	44.31	29.31	20.67%	57.46%	13.16%	8.71%

2020	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	222	184.5	37.5	0	0	83.11%	16.89%	0.00%	0.00%
Interregional Corridor	172.5	150.2	22.1	0.2	0	87.07%	12.81%	0.12%	0.00%
State Corridor	213.5	86.3	99.2	28	0	40.42%	46.46%	13.12%	0.00%
District Corridor	345.8	123.2	120.5	84.4	17.7	35.63%	34.84%	24.41%	5.12%
District Collector	336.7	110.3	155.3	47.7	23.4	32.76%	46.12%	14.17%	6.95%

# BISMARCK DISTRICT



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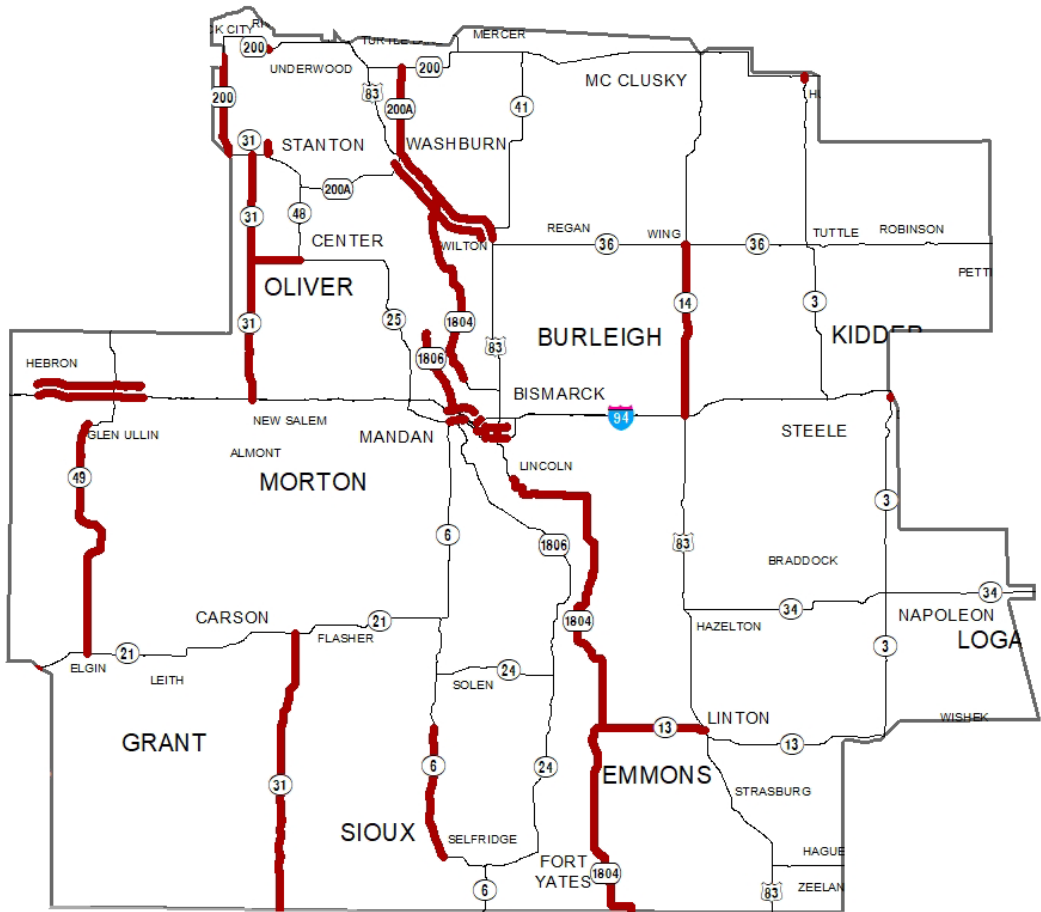
## Distress


2022	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	221.94	0.48	84.16	96.59	40.73	0.22%	37.92%	43.52%	18.35%
Interregional Corridor	172.75	0	20.65	125.92	26.18	0.00%	11.95%	72.89%	15.15%
State Corridor	213.54	0.56	54.01	112.84	46.13	0.26%	25.29%	52.84%	21.60%
District Corridor	345.81	1.98	100.23	218.3	25.26	0.57%	28.98%	63.13%	7.30%
District Collector	323.72	10.48	24.81	244.7	43.73	3.24%	7.66%	75.59%	13.51%

2021	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	221.94	0.93	89.42	99.95	31.64	0.42%	40.29%	45.03%	14.26%
Interregional Corridor	172.75	0	49.88	79.89	42.98	0.00%	28.87%	46.25%	24.88%
State Corridor	213.54	7.56	71.24	116.47	18.27	3.54%	33.36%	54.54%	8.56%
District Corridor	345.81	1.98	85.53	205.52	52.78	0.57%	24.73%	59.43%	15.26%
District Collector	336.69	1.27	111.15	218.86	5.41	0.38%	33.01%	65.00%	1.61%

2020	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	222	1.8	123.8	84.5	11.8	0.81%	55.79%	38.08%	5.32%
Interregional Corridor	172.5	0	38.5	88.9	45.3	0.00%	22.29%	51.48%	26.23%
State Corridor	213.5	23	56.7	110	23.8	10.77%	26.56%	51.52%	11.15%
District Corridor	345.8	0	97.3	217.5	31	0.00%	28.14%	62.90%	8.96%
District Collector	336.7	0	121.5	215.1	0	0.00%	36.10%	63.90%	0.00%

### Bismarck District Functional Capacity Restricted Miles



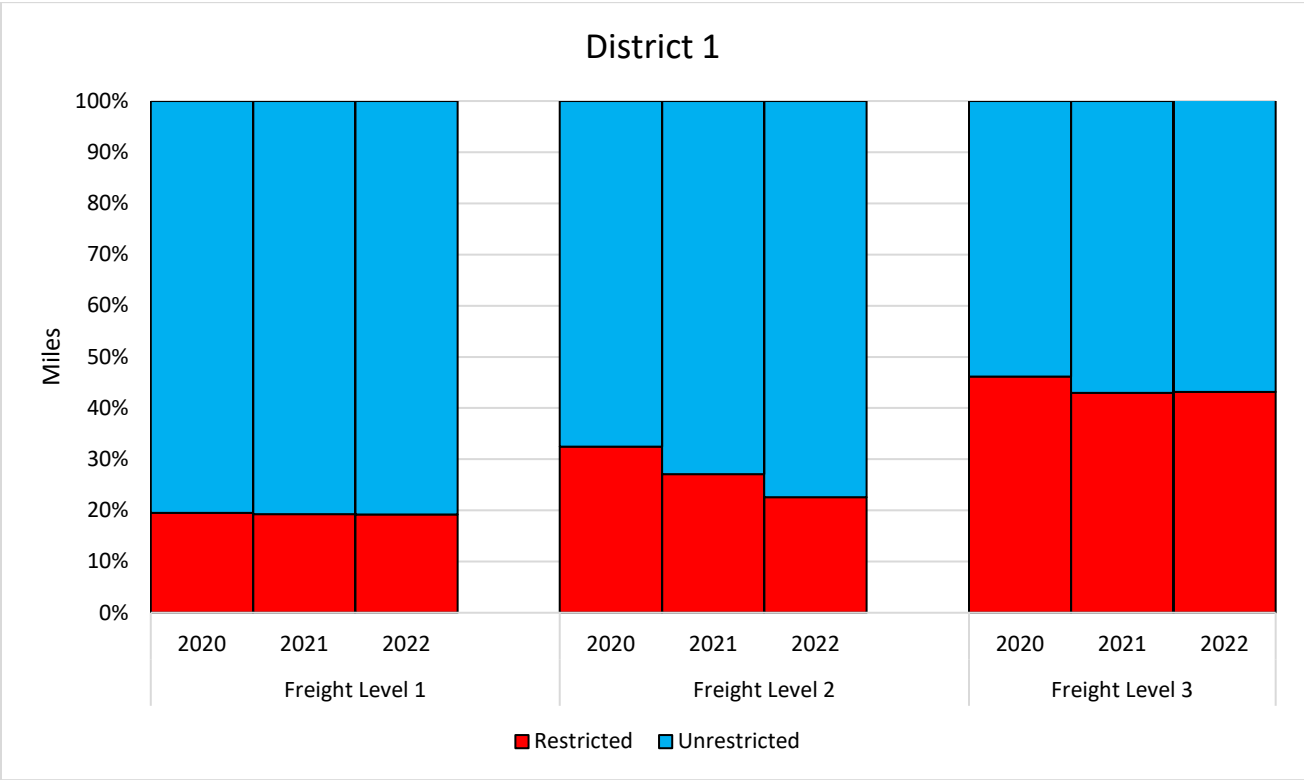
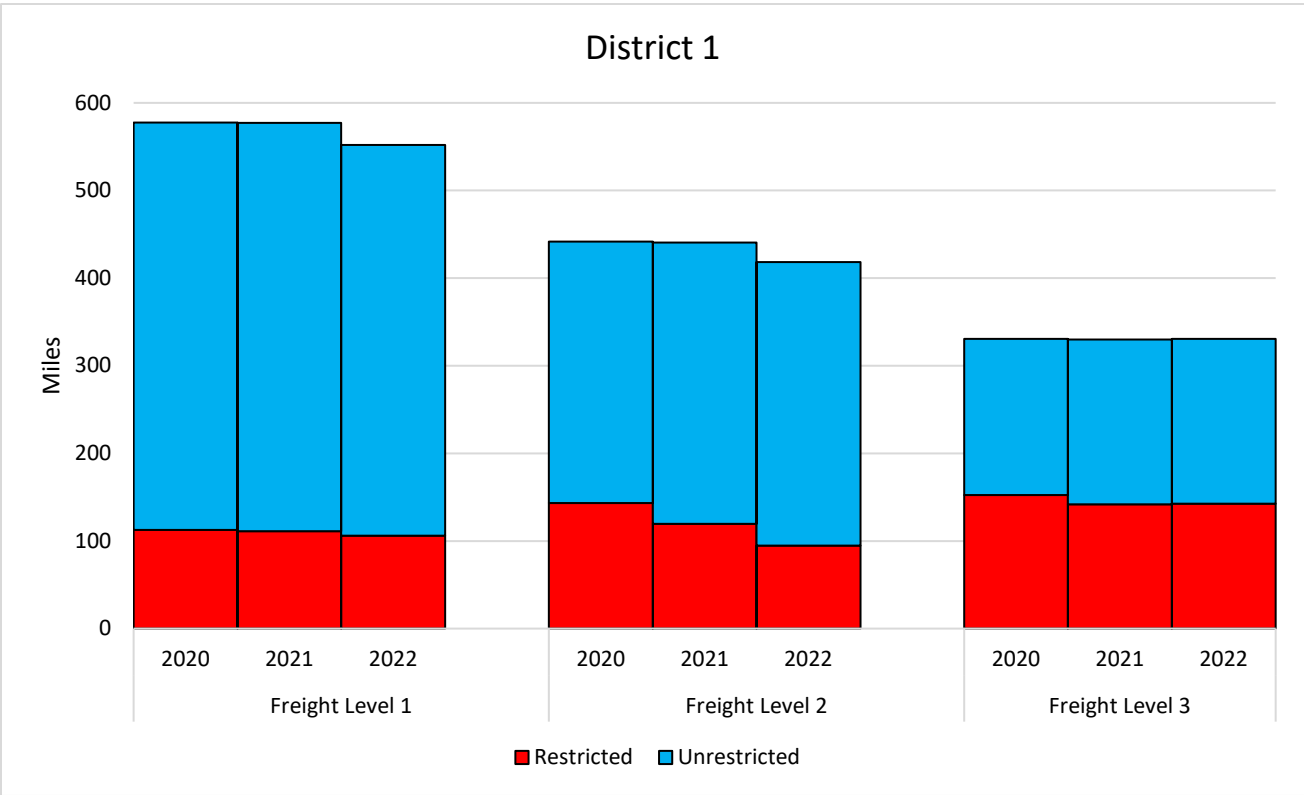
 Restricted Roadways

Restrictions Include:  
Load Restriction  
Capacity Restriction  
Structure Height Restriction  
Structure Width Restriction  
Roadway Width Restriction



STATE OF NORTH DAKOTA  
REPEALED BY THE  
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION  
PLANNING ASSET MANAGEMENT DIVISION  
IN COOPERATION WITH THE  
U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY DEPARTMENT

March 2023



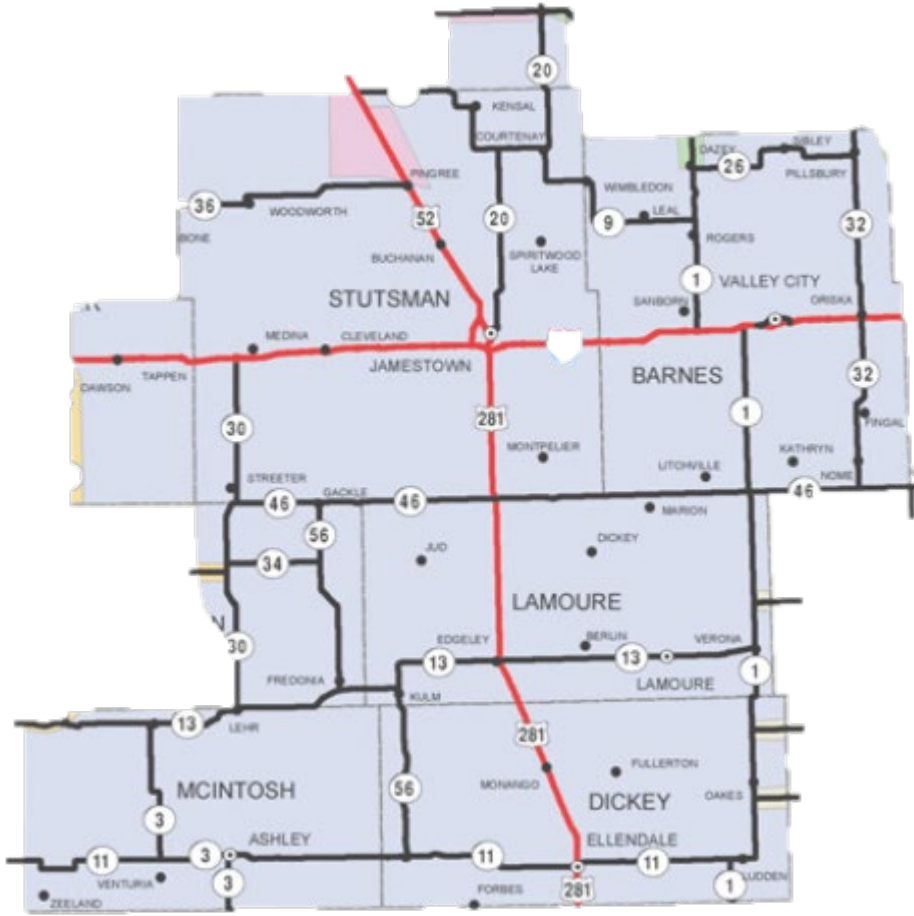


## Functional Capacity

2022	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	552.11	105.96	446.15	19.19%	80.81%
Freight Level 2	418.35	94.53	323.82	22.60%	77.40%
Freight Level 3	330.08	142.47	188.33	43.16%	57.06%

2021	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	577.19	465.86	111.33	80.71%	19.29%
Freight Level 2	440.4	321.02	119.38	72.89%	27.11%
Freight Level 3	330.08	188.25	141.83	57.03%	42.97%

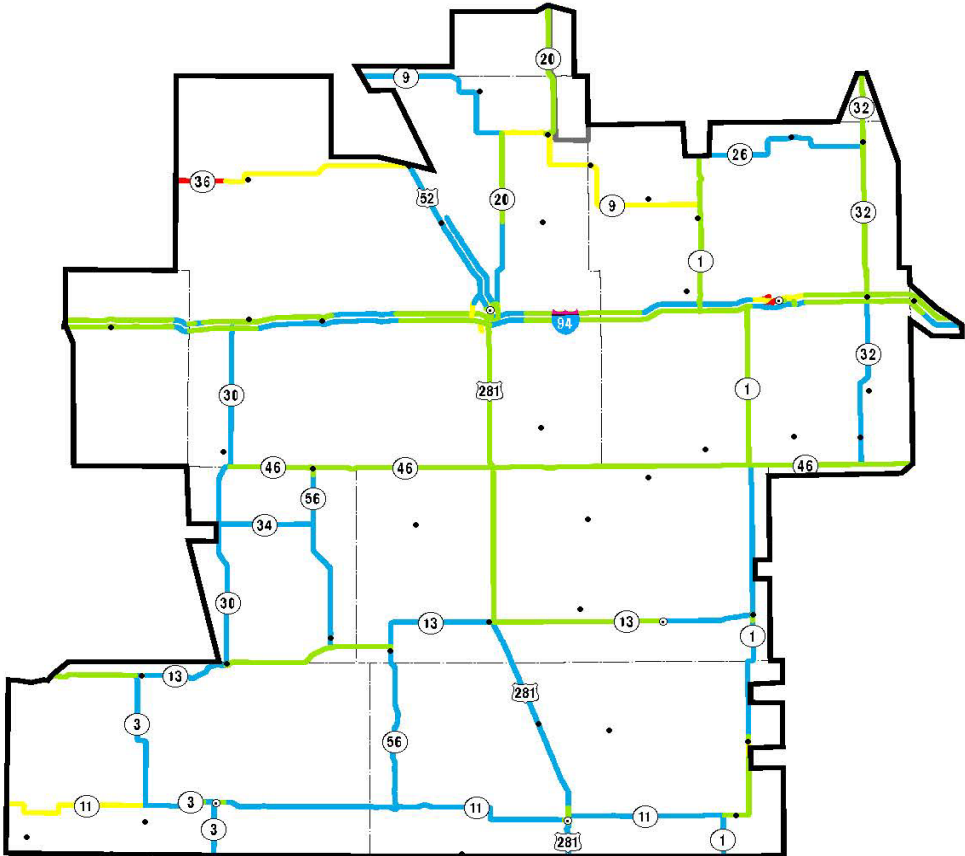
2020	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	577.6	112.6	465	19.49%	80.51%
Freight Level 2	441.7	143.3	298.4	32.44%	67.56%
Freight Level 3	330.6	152.5	178.1	46.13%	53.87%



# DISTRICT 2

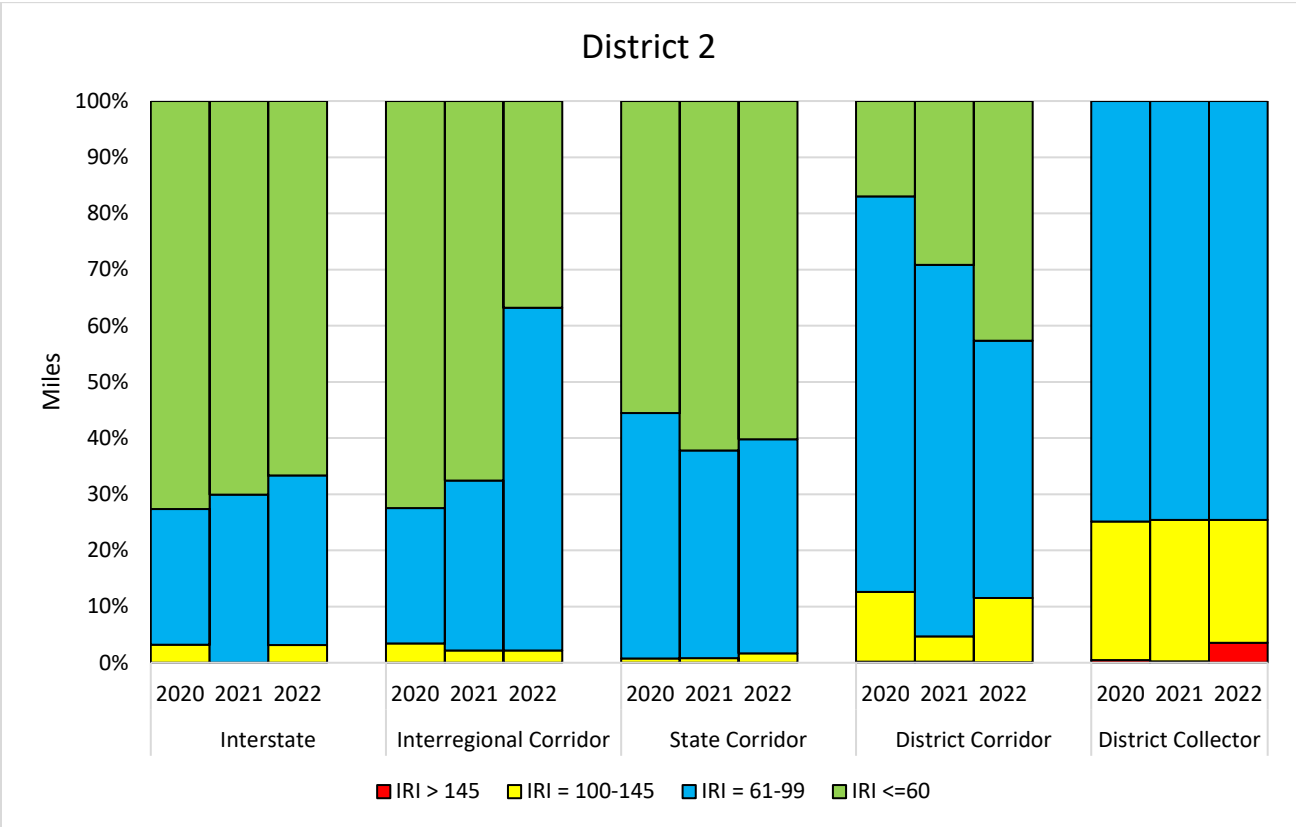
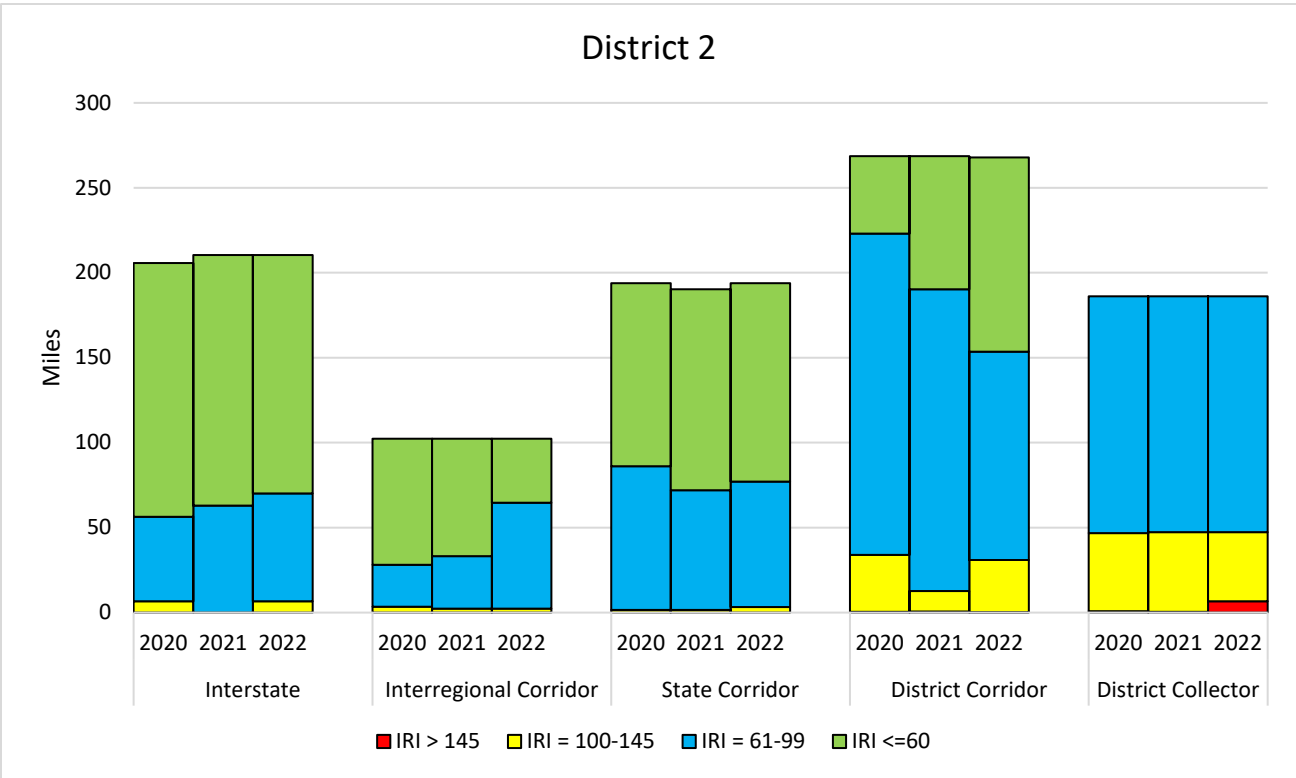
## Valley City, ND

# VALLEY CITY DISTRICT



### 2022 IRI

- 0 - 60, EXCELLENT
- 60.1 - 99, GOOD
- 99.1 - 145, FAIR
- > 145.1, POOR



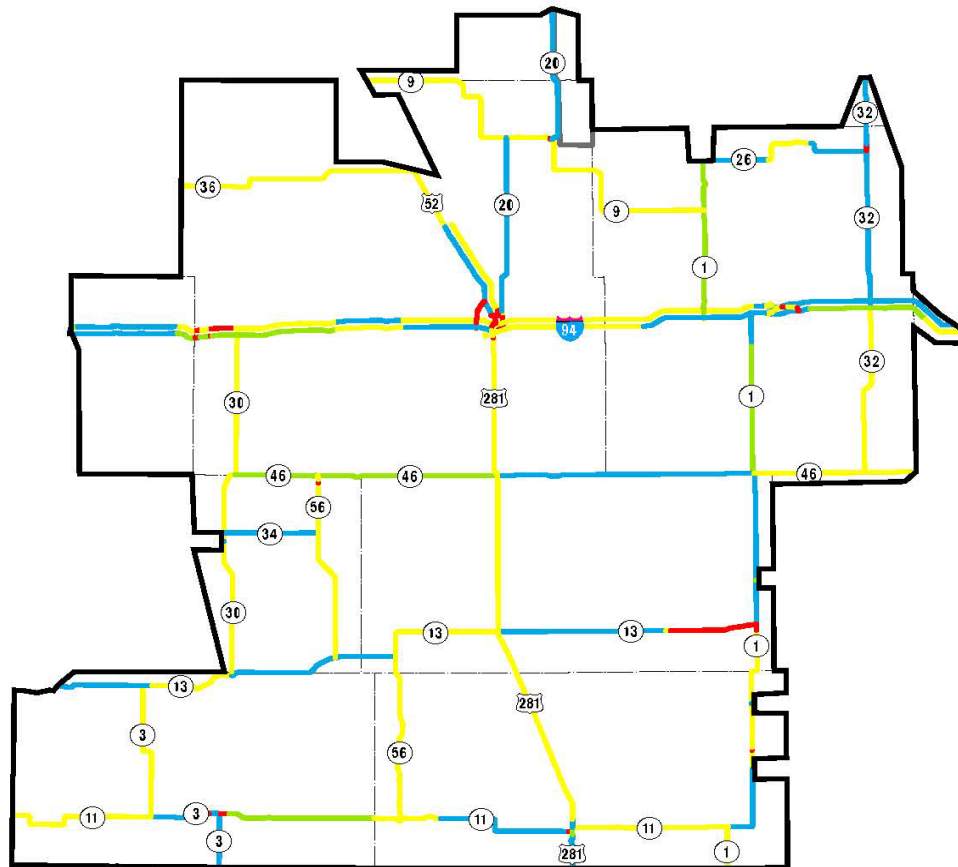
# IRI

2022	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	210.51	140.36	63.55	6.61	0	66.68%	30.19%	3.14%	0.00%
Interregional Corridor	102.41	37.68	62.49	2.24	0	36.79%	61.02%	2.19%	0.00%
State Corridor	193.85	116.78	73.8	3.27	0	60.24%	38.07%	1.69%	0.00%
District Corridor	267.86	114.26	122.7	30.7	0.2	42.66%	45.81%	11.46%	0.07%
District Collector	186.17	0	138.81	40.68	6.67	0.00%	74.56%	21.85%	3.58%

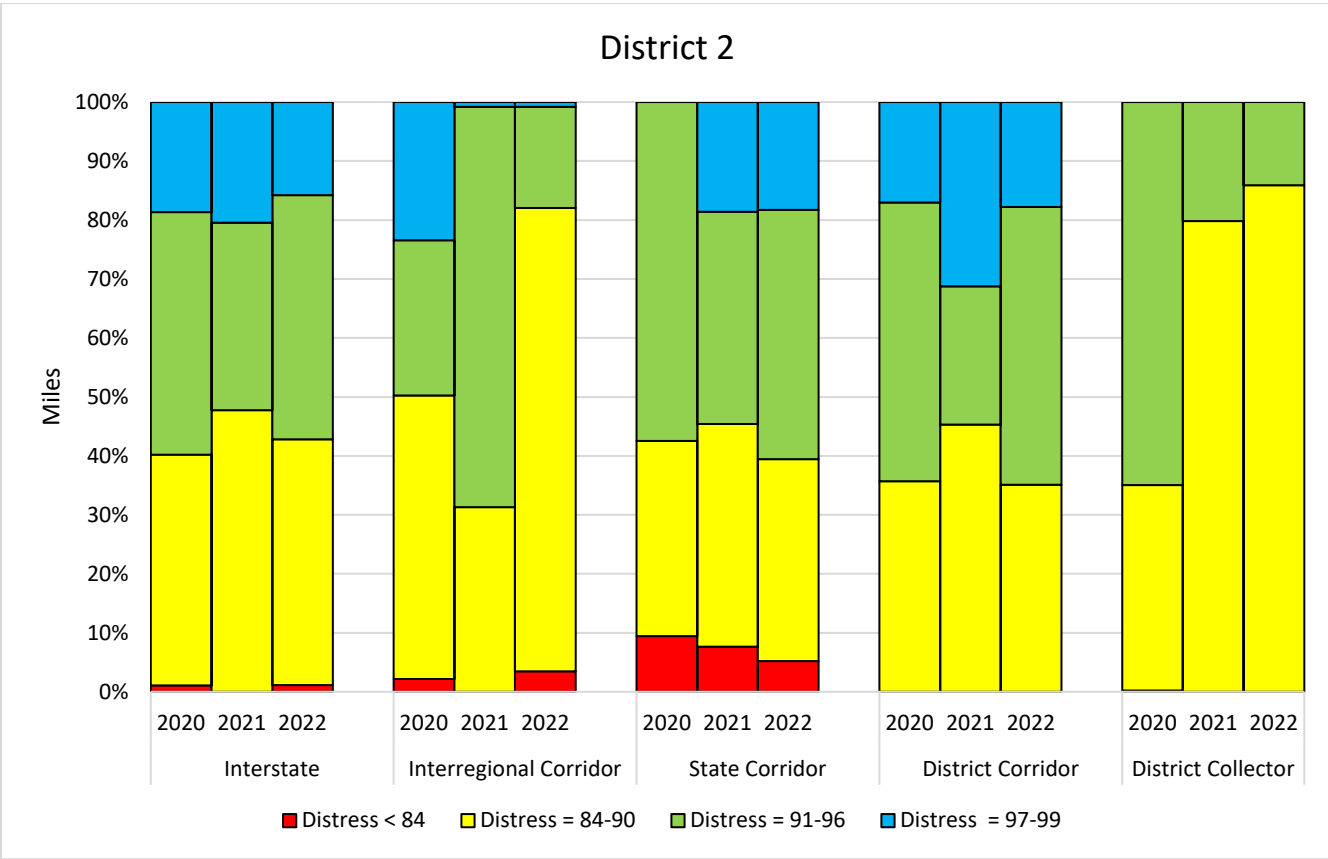
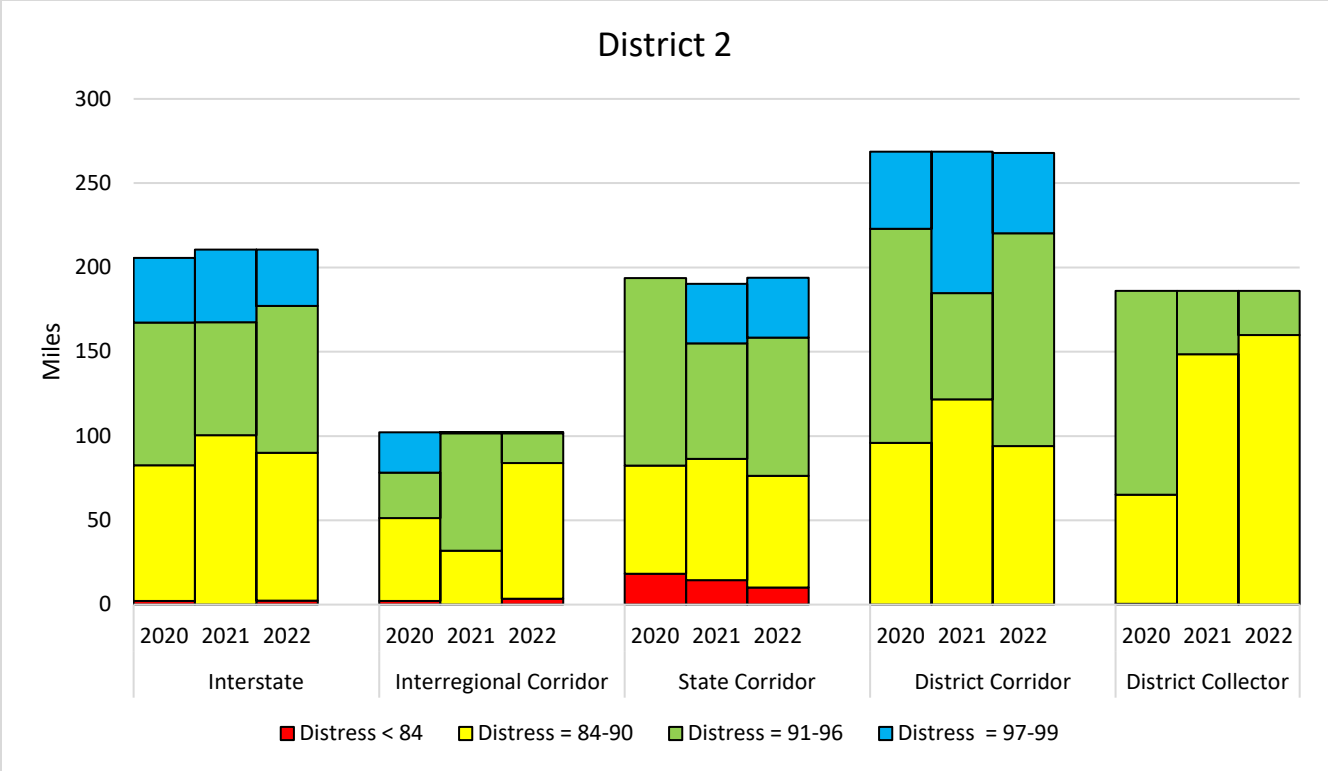
2021	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	210.51	147.53	62.98	0	0	70.08%	29.92%	0.00%	0.00%
Interregional Corridor	102.41	69.18	30.99	2.24	0	67.55%	30.26%	2.19%	0.00%
State Corridor	190.31	118.39	70.38	1.54	0	62.21%	36.98%	0.81%	0.00%
District Corridor	268.69	78.43	177.58	12.14	0.54	29.19%	66.09%	4.52%	0.20%
District Collector	186.17	0	138.81	46.93	0.43	0.00%	74.56%	25.21%	0.23%

2020	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	205.7	149.4	49.7	6.6	0	72.63%	24.16%	3.21%	0.00%
Interregional Corridor	102.4	74.2	24.7	3.5	0	72.46%	24.12%	3.42%	0.00%
State Corridor	193.8	107.6	84.7	1.5	0	55.52%	43.70%	0.77%	0.00%
District Corridor	268.7	45.6	189.2	33.4	0.5	16.97%	70.41%	12.43%	0.19%
District Collector	186.2	0	139.4	45.9	0.9	0.00%	74.87%	24.65%	0.48%

# VALLEY CITY DISTRICT



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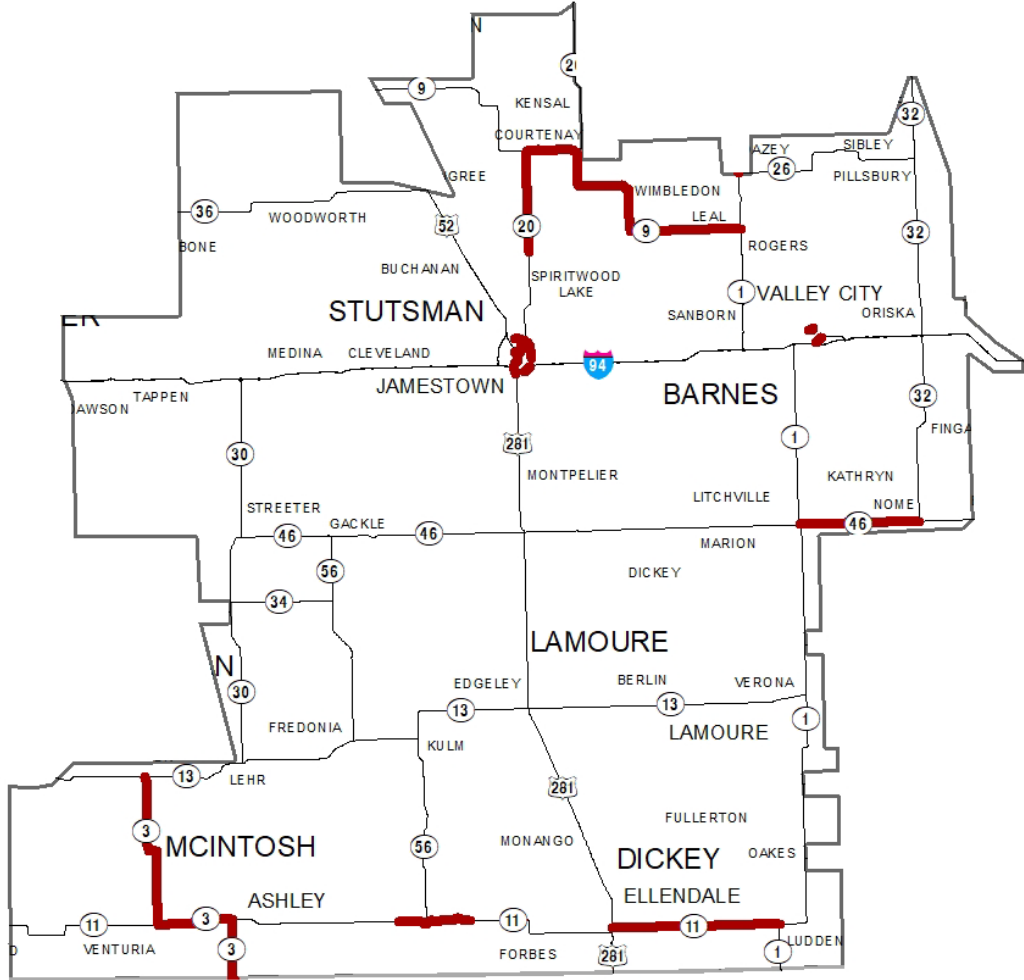
## Distress

2022	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	210.51	2.41	87.71	87.13	33.27	1.14%	41.67%	41.39%	15.80%
Interregional Corridor	102.41	3.54	80.48	17.56	0.83	3.46%	78.59%	17.15%	0.81%
State Corridor	193.85	10.05	66.41	82	35.4	5.18%	34.26%	42.30%	18.26%
District Corridor	267.86	0	94.02	126.2	47.64	0.00%	35.10%	47.11%	17.79%
District Collector	186.17	0	159.96	26.2	0	0.00%	85.92%	14.07%	0.00%

2021	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	210.51	0	100.53	66.94	43.04	0.00%	47.76%	31.80%	20.45%
Interregional Corridor	102.41	0	32.05	69.53	0.83	0.00%	31.30%	67.89%	0.81%
State Corridor	190.31	14.55	71.93	68.43	35.4	7.65%	37.80%	35.96%	18.60%
District Corridor	268.69	0	121.76	63.03	83.9	0.00%	45.32%	23.46%	31.23%
District Collector	186.17	0	148.62	37.53	0	0.00%	79.83%	20.16%	0.00%

2020	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	205.7	2.2	80.5	84.6	38.4	1.07%	39.13%	41.13%	18.67%
Interregional Corridor	102.4	2.2	49.2	26.9	24	2.15%	48.09%	26.30%	23.46%
State Corridor	193.8	18.3	64.1	111.4	0	9.44%	33.08%	57.48%	0.00%
District Corridor	268.7	0	96	126.9	45.8	0.00%	35.73%	47.23%	17.05%
District Collector	186.2	0.4	64.8	120.9	0	0.21%	34.82%	64.97%	0.00%

**Valley City District Functional Capacity Restricted Miles**

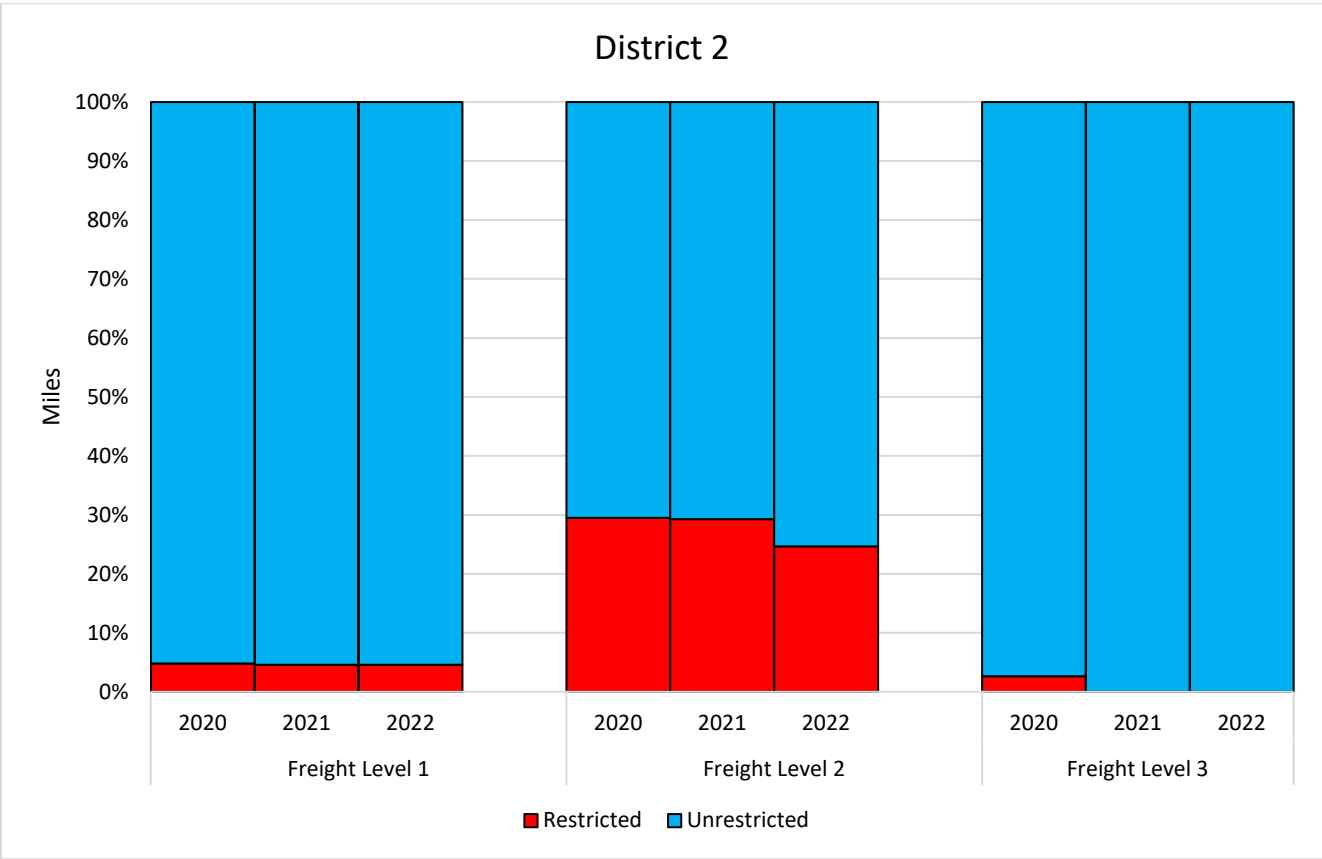
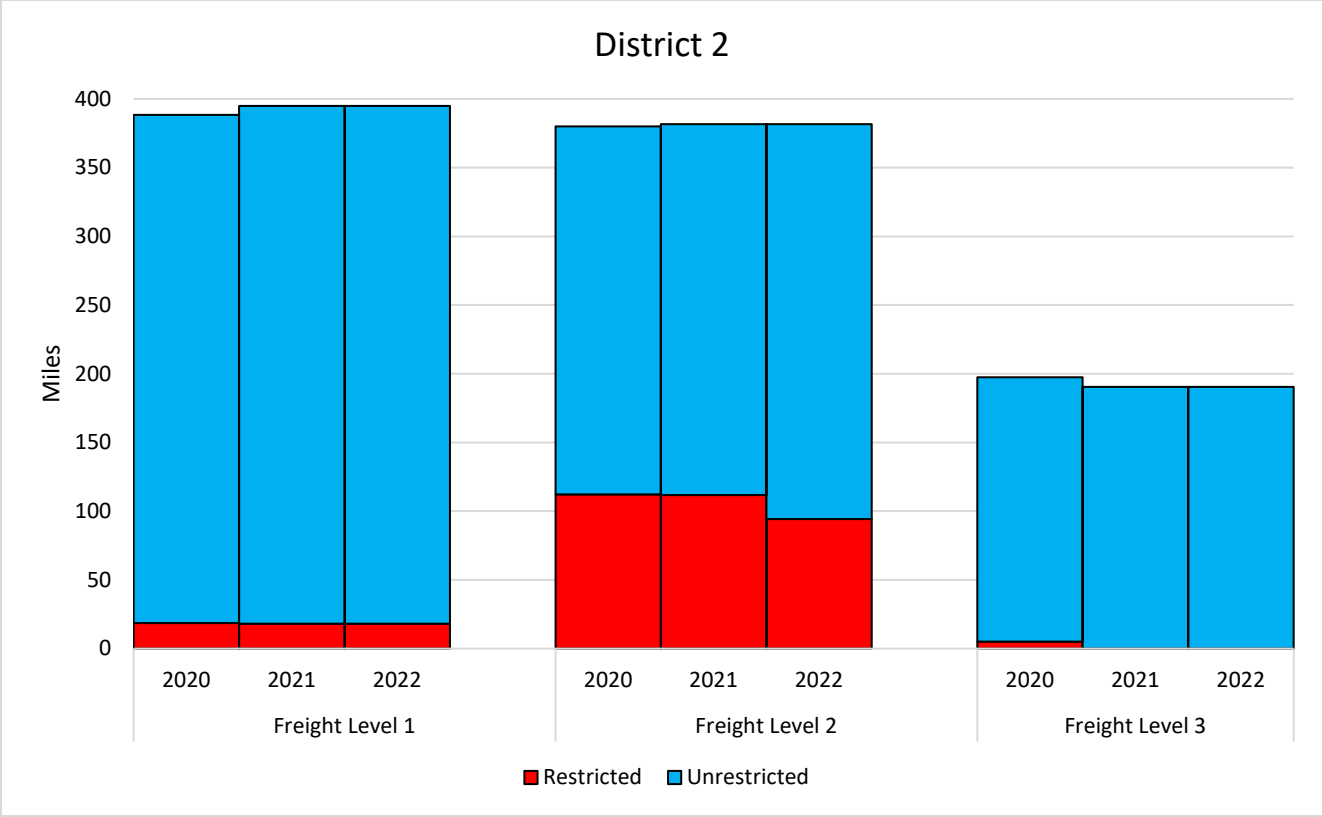


— Restricted Roadways

Restrictions Include:  
 Load Restriction  
 Capacity Restriction  
 Structure Height Restriction  
 Structure Width Restriction  
 Roadway Width Restriction



STATE OF NORTH DAKOTA  
 PREPARED BY THE  
 NORTH DAKOTA DEPARTMENT OF TRANSPORTATION  
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 FEDERAL HIGHWAY DEPARTMENT  
 March 2023

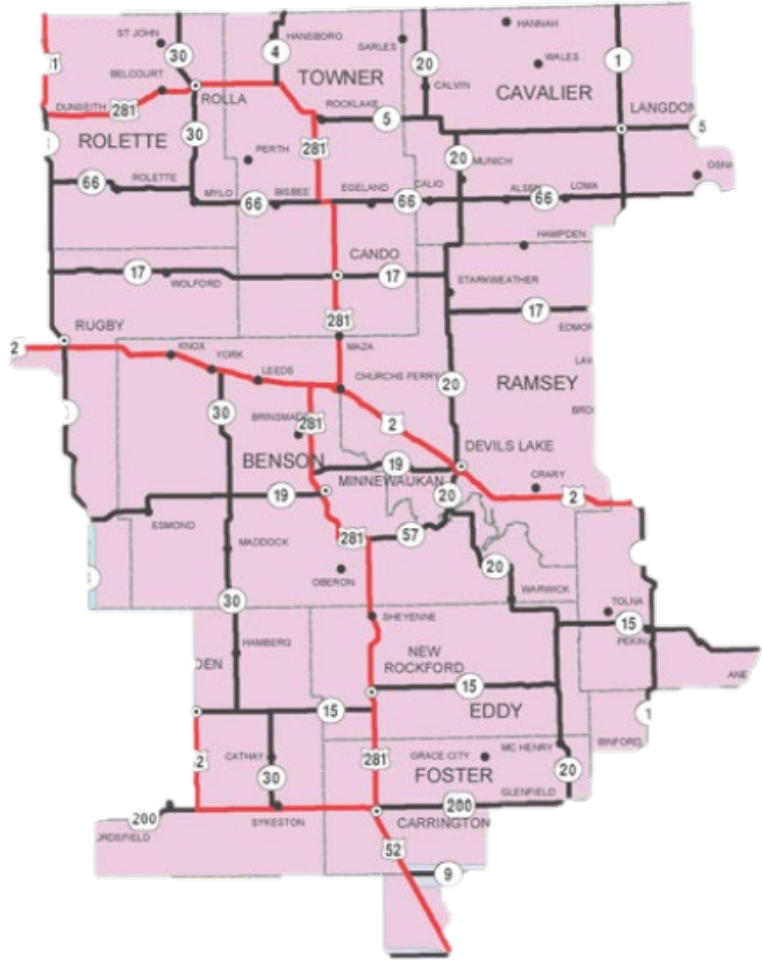


## Functional Capacity

2022	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	394.81	18.16	376.65	4.60%	95.40%
Freight Level 2	381.66	94.2	287.46	24.68%	75.32%
Freight Level 3	190.48	0	190.48	0.00%	100.00%

2021	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	394.81	18.15	376.66	4.60%	95.40%
Freight Level 2	381.66	111.77	269.89	29.29%	70.71%
Freight Level 3	190.48	0	190.48	0.00%	100.00%

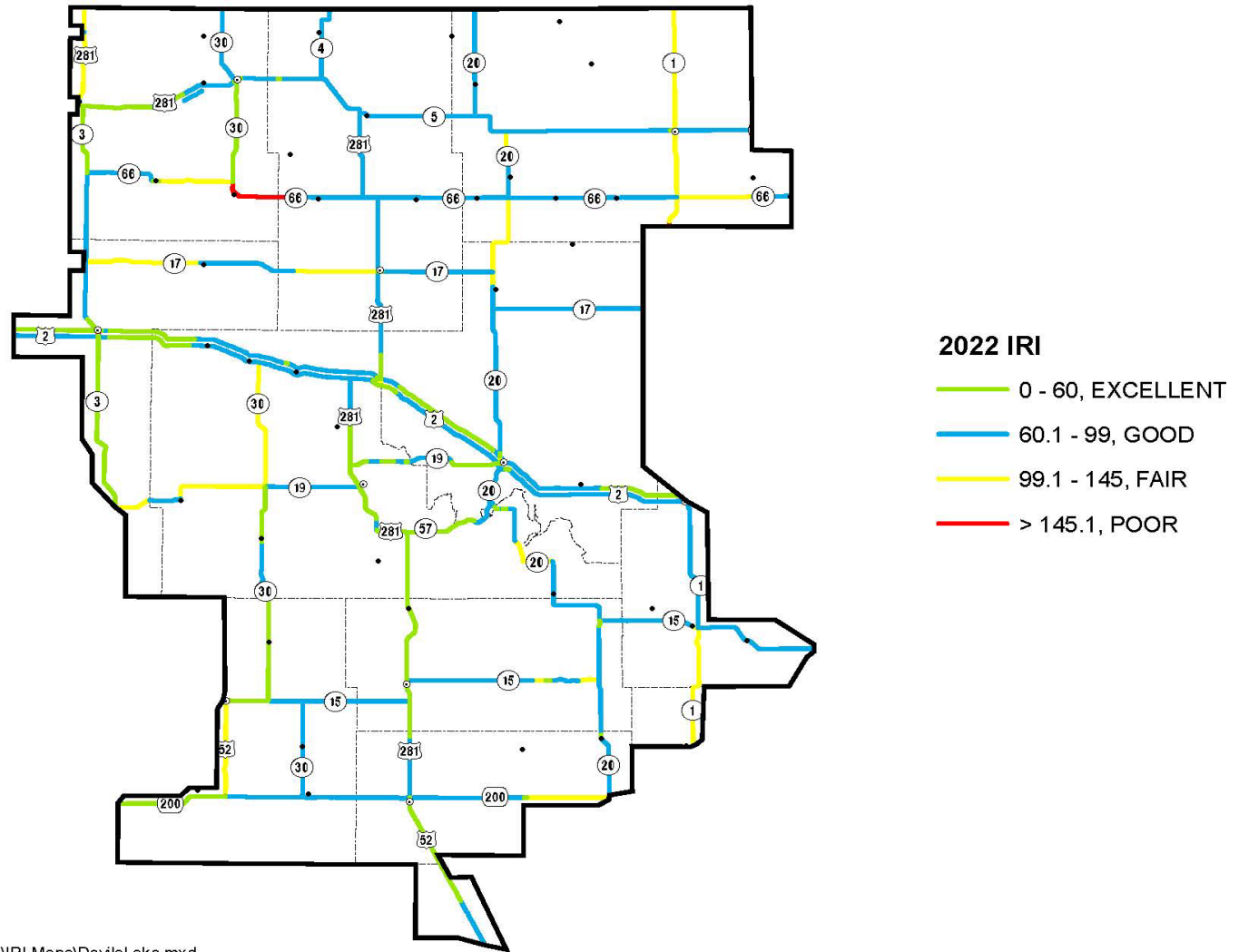
2020	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	388.4	18.7	369.7	4.81%	95.19%
Freight Level 2	380	112.1	267.9	29.50%	70.50%
Freight Level 3	197.4	5.2	192.2	2.63%	97.37%

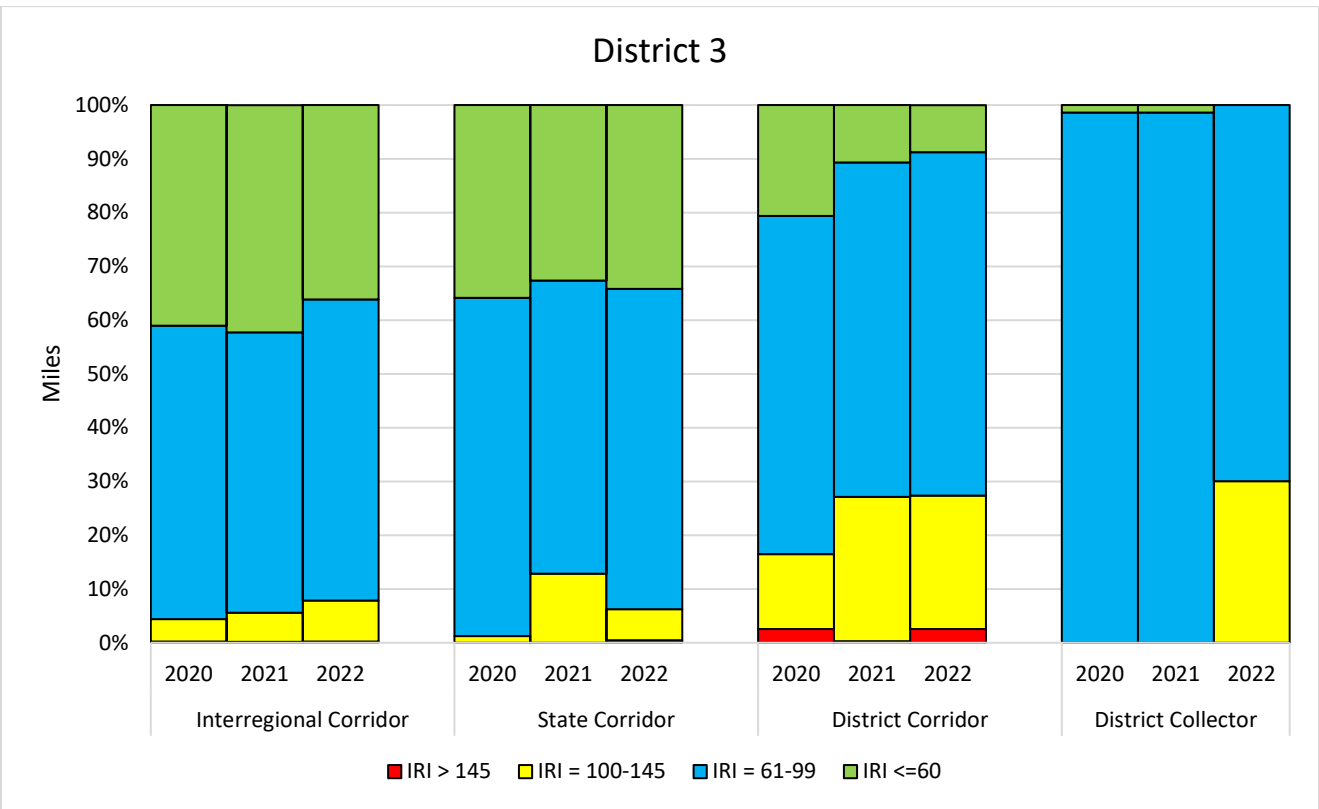
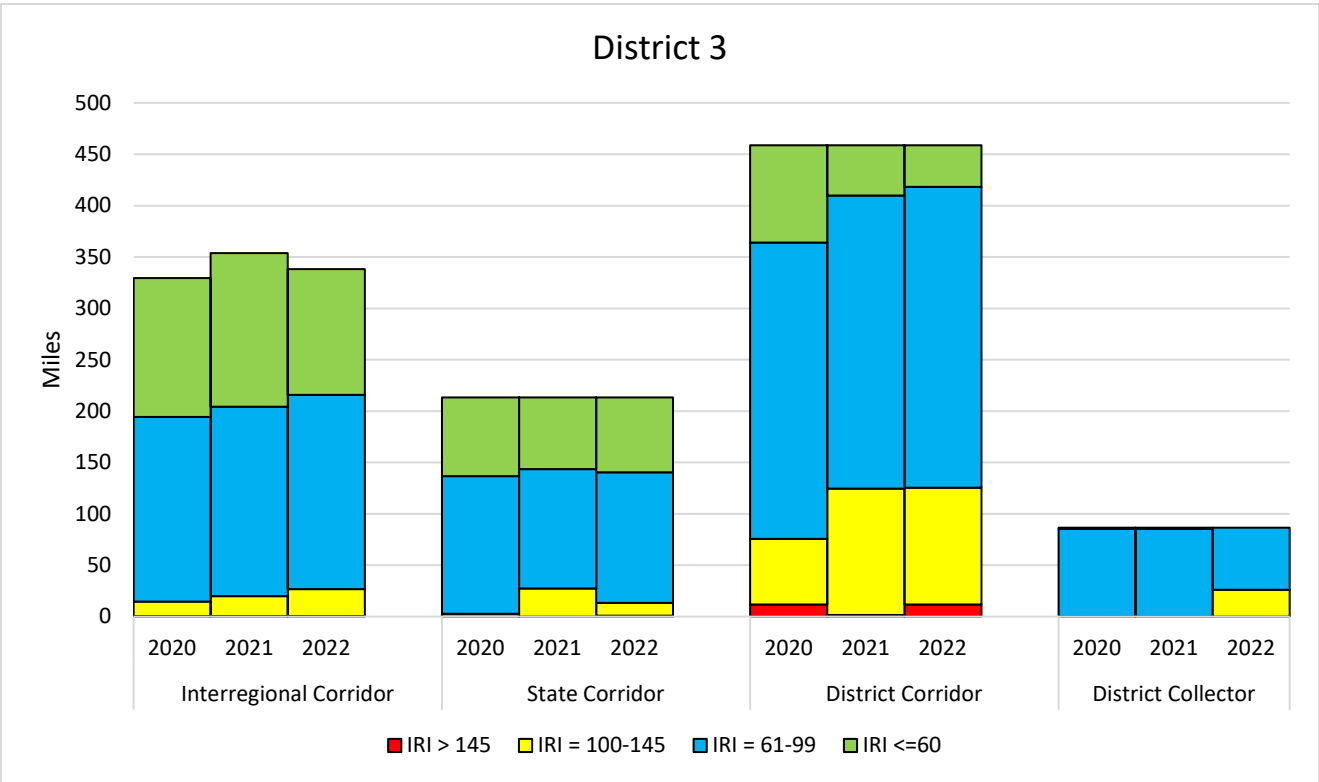


# DISTRICT 3

## Devils Lake, ND

# DEVILS LAKE DISTRICT







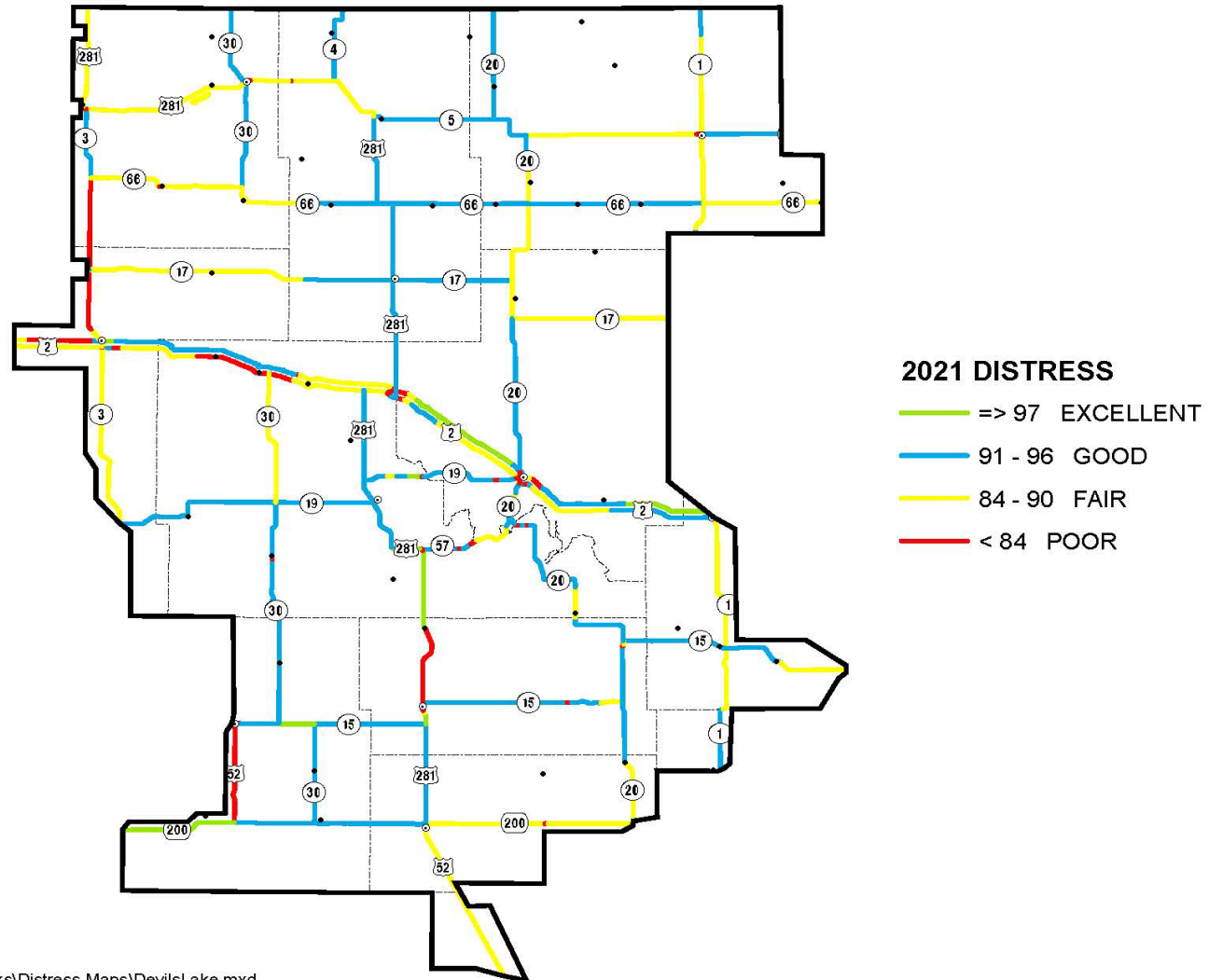
# IRI

2022	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	338.08	122.22	189.26	25.93	0.67	36.15%	55.98%	7.67%	0.20%
State Corridor	213.22	72.94	126.96	12.34	0.98	34.21%	59.54%	5.79%	0.46%
District Corridor	458.64	40.28	292.81	113.8	11.75	8.78%	63.84%	24.81%	2.56%
District Collector	86.5	0	60.52	25.98	0	0.00%	69.97%	30.03%	0.00%

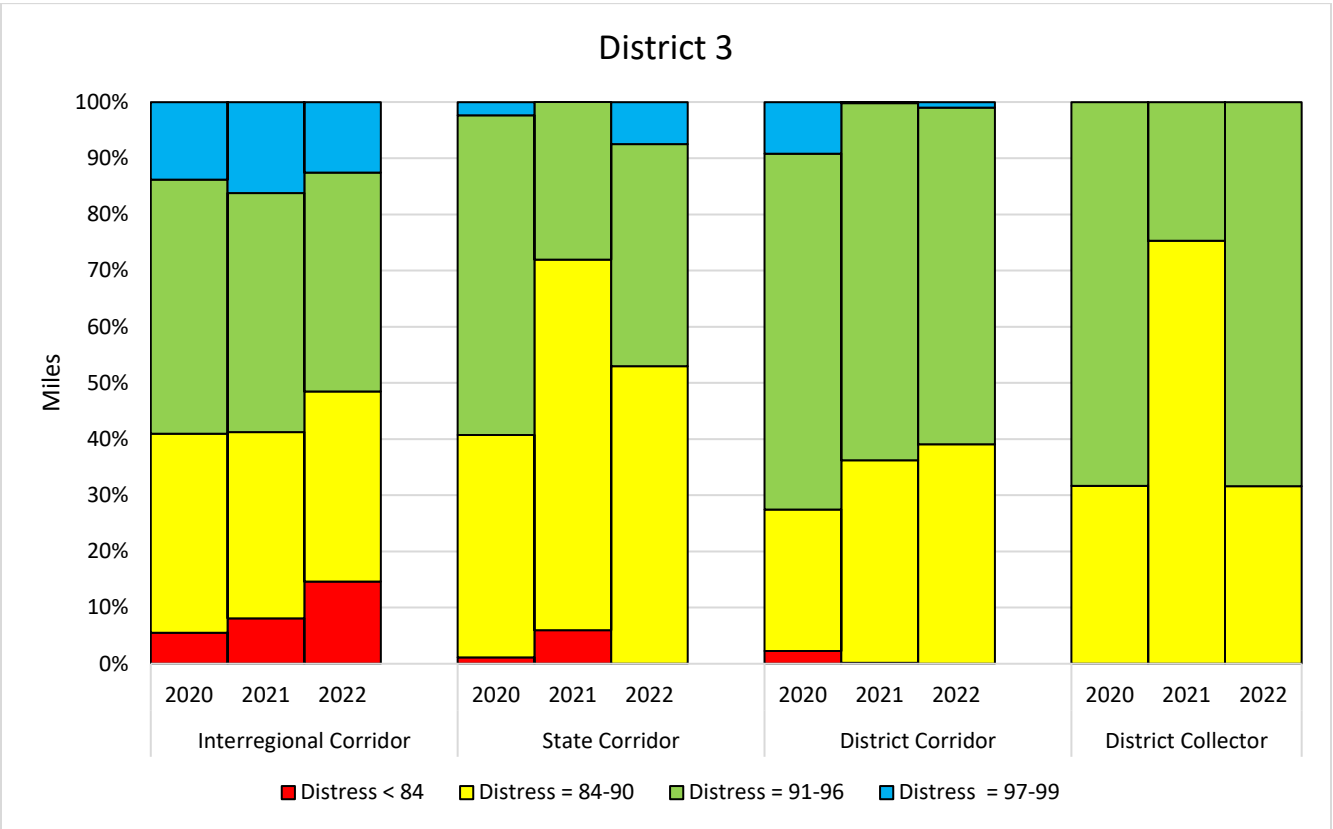
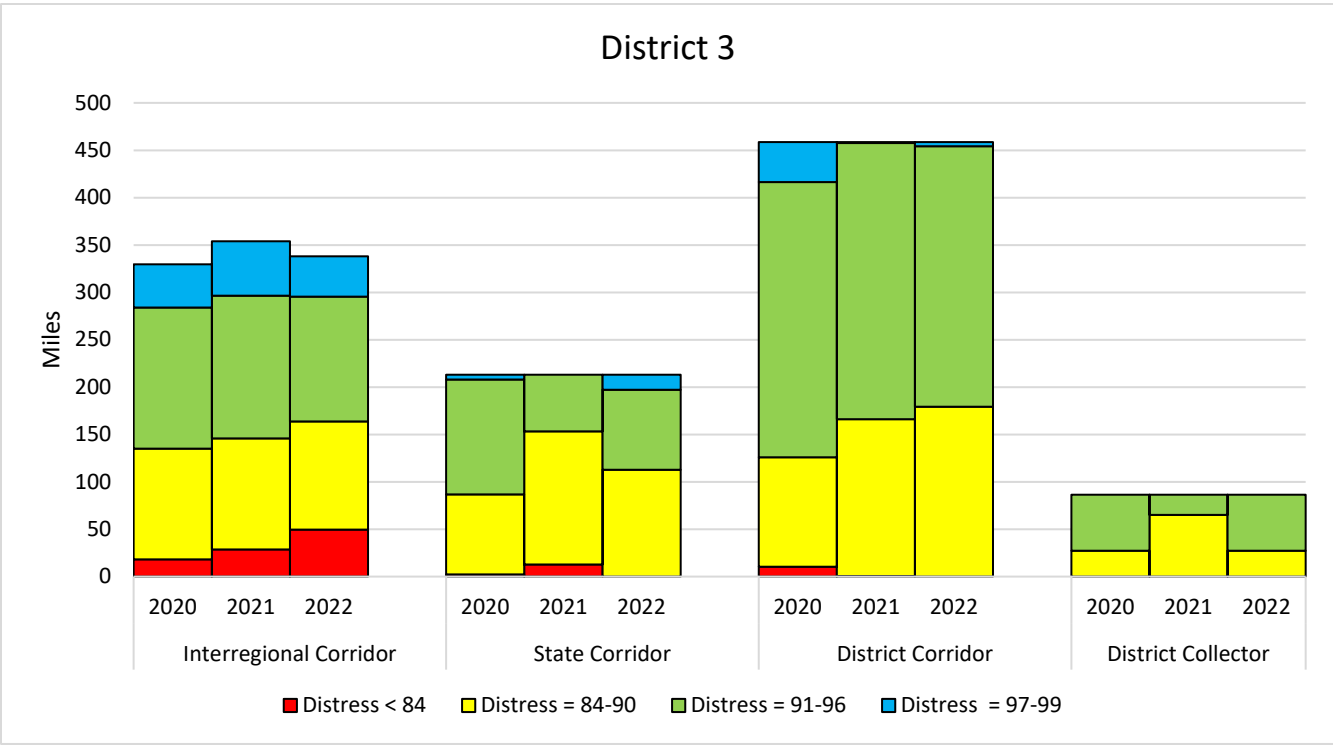
2021	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	353.93	149.67	184.44	19.15	0.66	42.29%	52.11%	5.41%	0.19%
State Corridor	213.22	69.58	116.3	27.34	0	32.63%	54.54%	12.82%	0.00%
District Corridor	458.64	48.87	285.36	122.99	1.42	10.66%	62.22%	26.82%	0.31%
District Collector	86.5	1.2	85.3	0	0	1.39%	98.61%	0.00%	0.00%

2020	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	329.6	135.2	179.9	13.8	0.7	41.02%	54.58%	4.19%	0.21%
State Corridor	213.3	76.5	134.1	2.7	0	35.86%	62.87%	1.27%	0.00%
District Corridor	458.7	94.7	288.5	63.7	11.8	20.65%	62.90%	13.89%	2.57%
District Collector	86.5	1.2	85.3	0	0	1.39%	98.61%	0.00%	0.00%

# DEVILS LAKE DISTRICT



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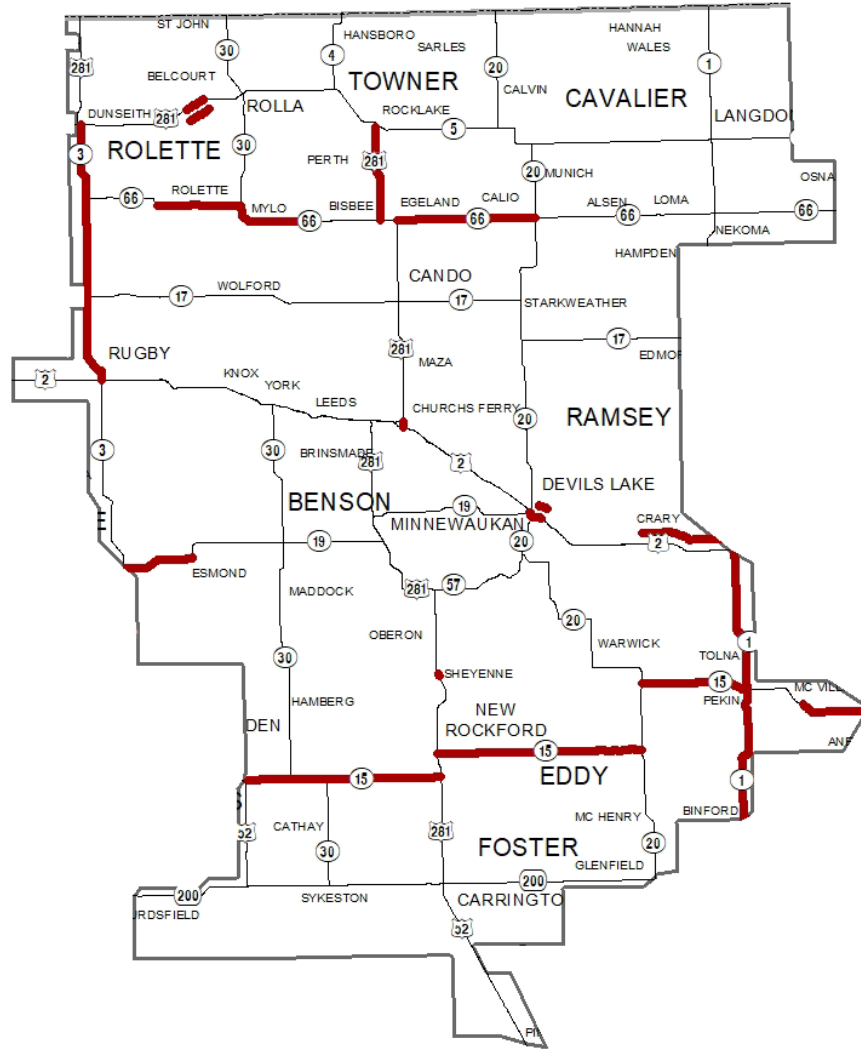
## Distress

2022	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	338.08	49.45	114.35	131.74	42.54	14.63%	33.82%	38.97%	12.58%
State Corridor	213.22	0	112.92	84.34	15.96	0.00%	52.96%	39.56%	7.49%
District Corridor	458.64	0	179.23	274.91	4.49	0.00%	39.08%	59.94%	0.98%
District Collector	86.5	0	27.36	59.14	0	0.00%	31.63%	68.37%	0.00%

2021	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	353.93	28.58	117.44	150.51	57.4	8.08%	33.18%	42.53%	16.22%
State Corridor	213.22	12.71	140.71	59.81	0	5.96%	65.99%	28.05%	0.00%
District Corridor	458.64	0.72	165.38	291.54	1.01	0.16%	36.06%	63.57%	0.22%
District Collector	86.5	0	65.13	21.37	0	0	75.29%	24.71%	0

2020	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	329.6	18.1	116.9	149	45.6	5.49%	35.47%	45.21%	13.83%
State Corridor	213.3	2.4	84.4	121.3	5	1.13%	39.61%	56.92%	2.35%
District Corridor	458.7	10.3	115.6	290.6	42.1	2.25%	25.21%	63.37%	9.18%
District Collector	86.5	0	27.4	59.1	0	0.00%	31.68%	68.32%	0.00%

**Devils Lake District Functional Capacity Restricted Miles**



— Restricted Roadways

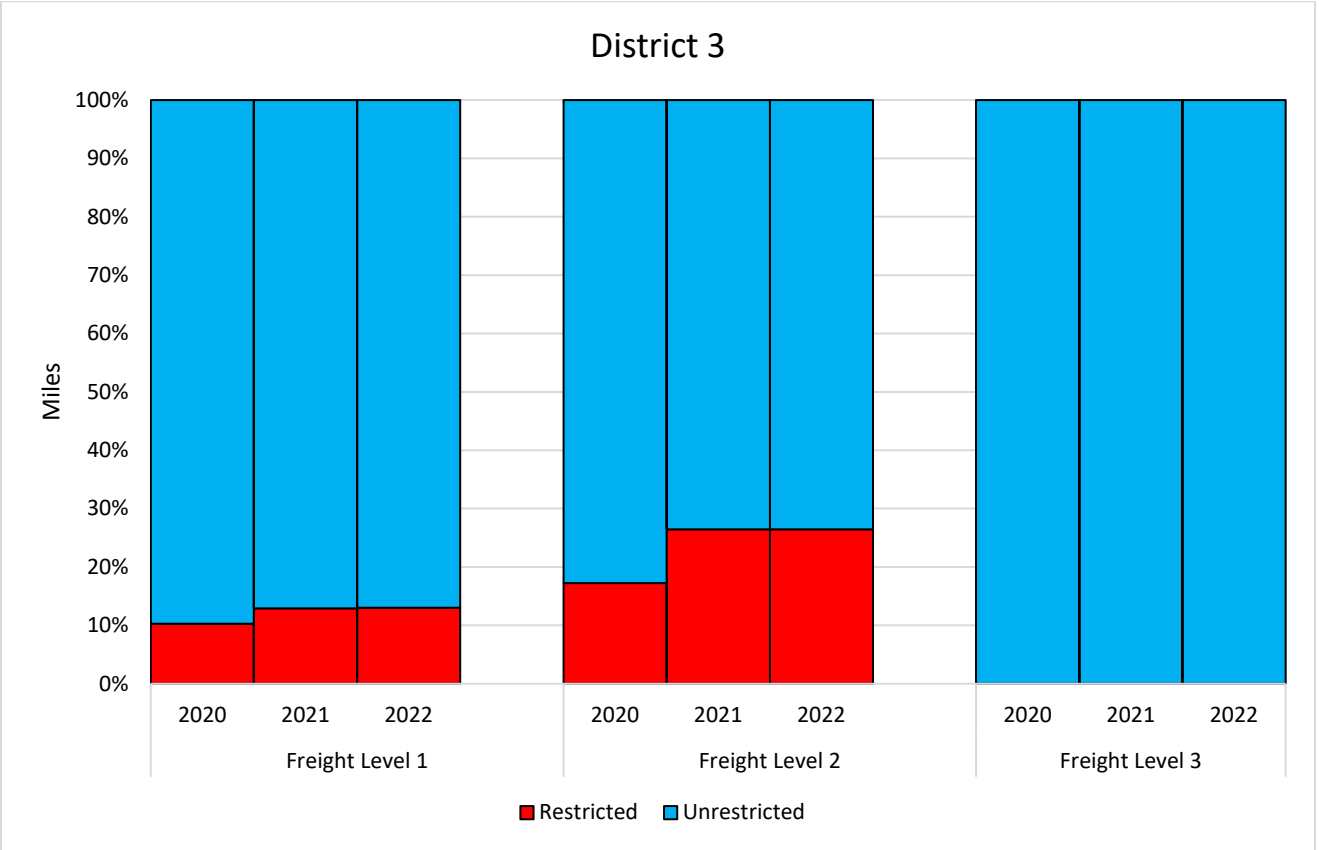
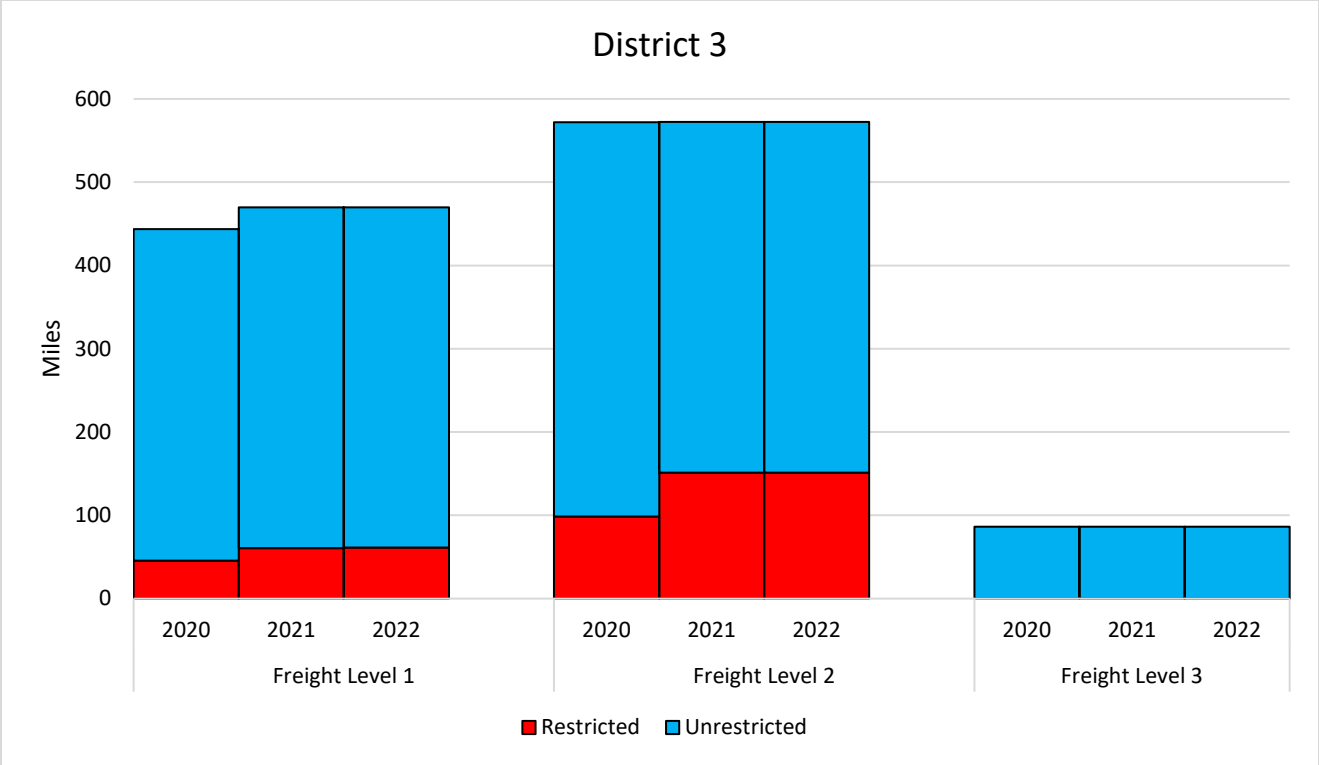
Restrictions Include:  
 Load Restriction  
 Capacity Restriction  
 Structure Height Restriction  
 Structure Width Restriction  
 Roadway Width Restriction



STATE OF  
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 FEDERAL HIGHWAY DEPARTMENT

March 2023



# Functional Capacity

2022	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	469.89	61.2	408.69	13.02%	86.98%
Freight Level 2	572.32	151.37	420.95	26.45%	73.55%
Freight Level 3	86.5	0	86.5	0.00%	100.00%

2021	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	469.89	60.75	409.14	12.93%	87.07%
Freight Level 2	572.32	151.37	420.95	26.45%	73.55%
Freight Level 3	86.5	0	86.5	0.00%	100.00%

2020	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	443.7	45.6	398.1	10.28%	89.72%
Freight Level 2	572.1	98.7	473.4	17.25%	82.75%
Freight Level 3	86.5	0	86.5	0.00%	100.00%

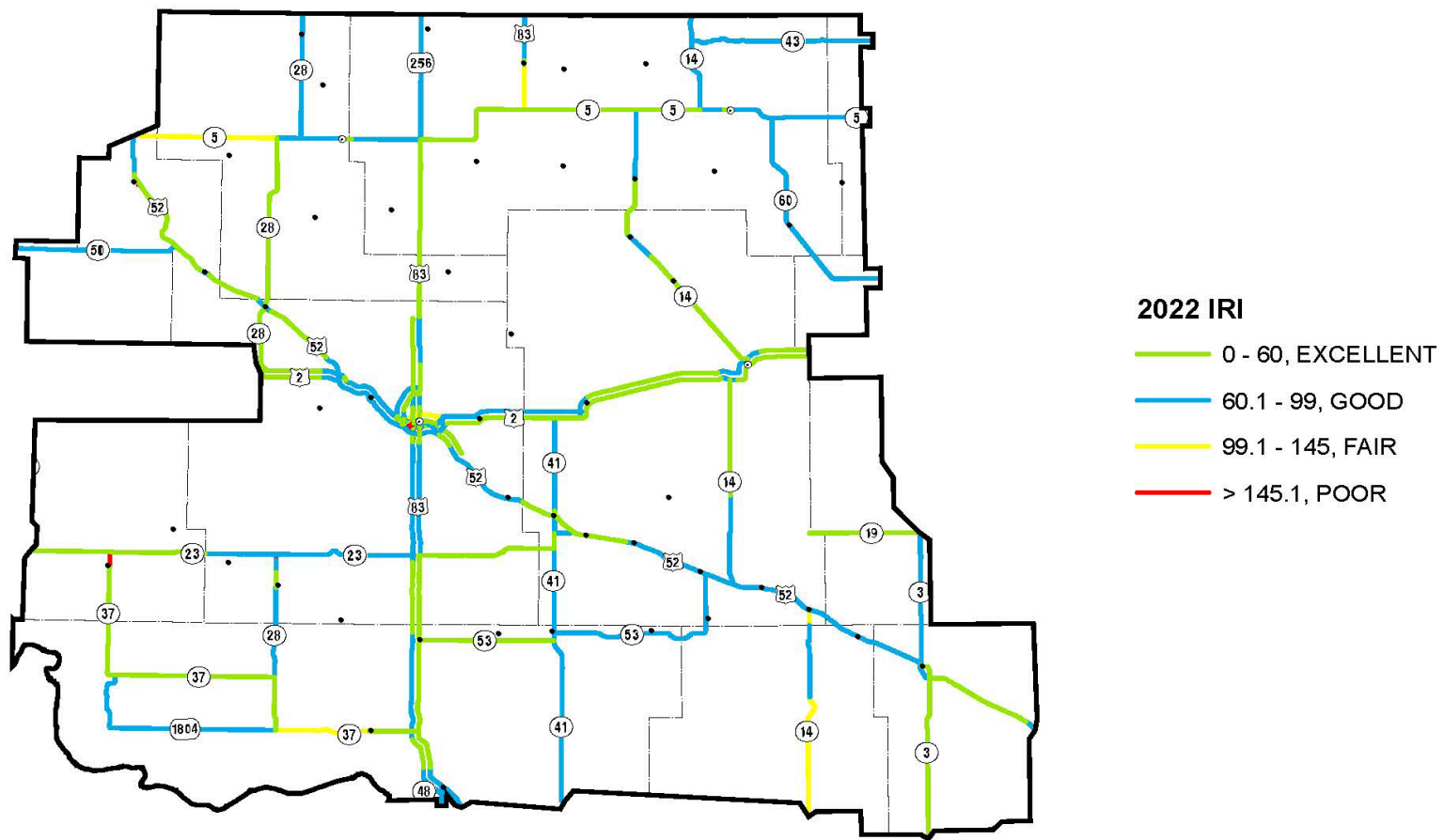


# DISTRICT 4

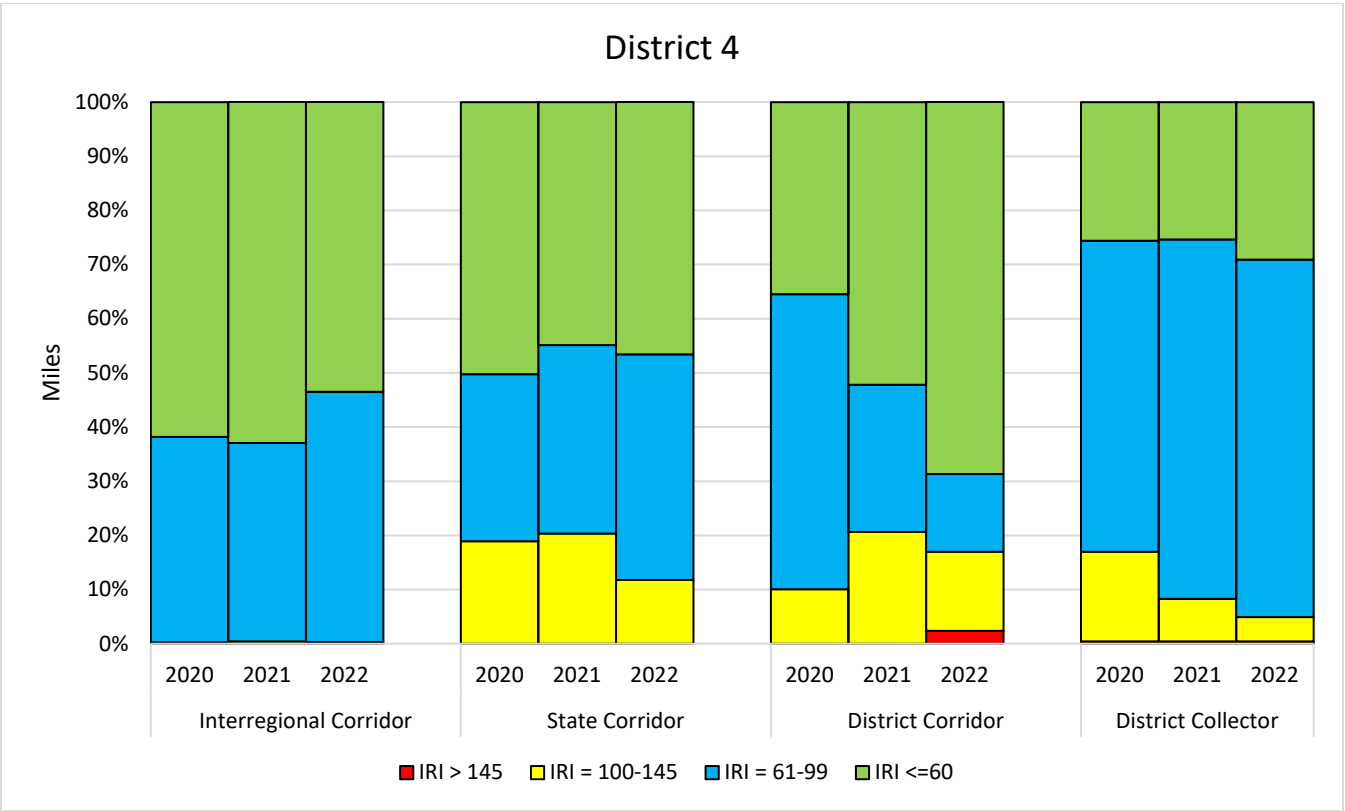
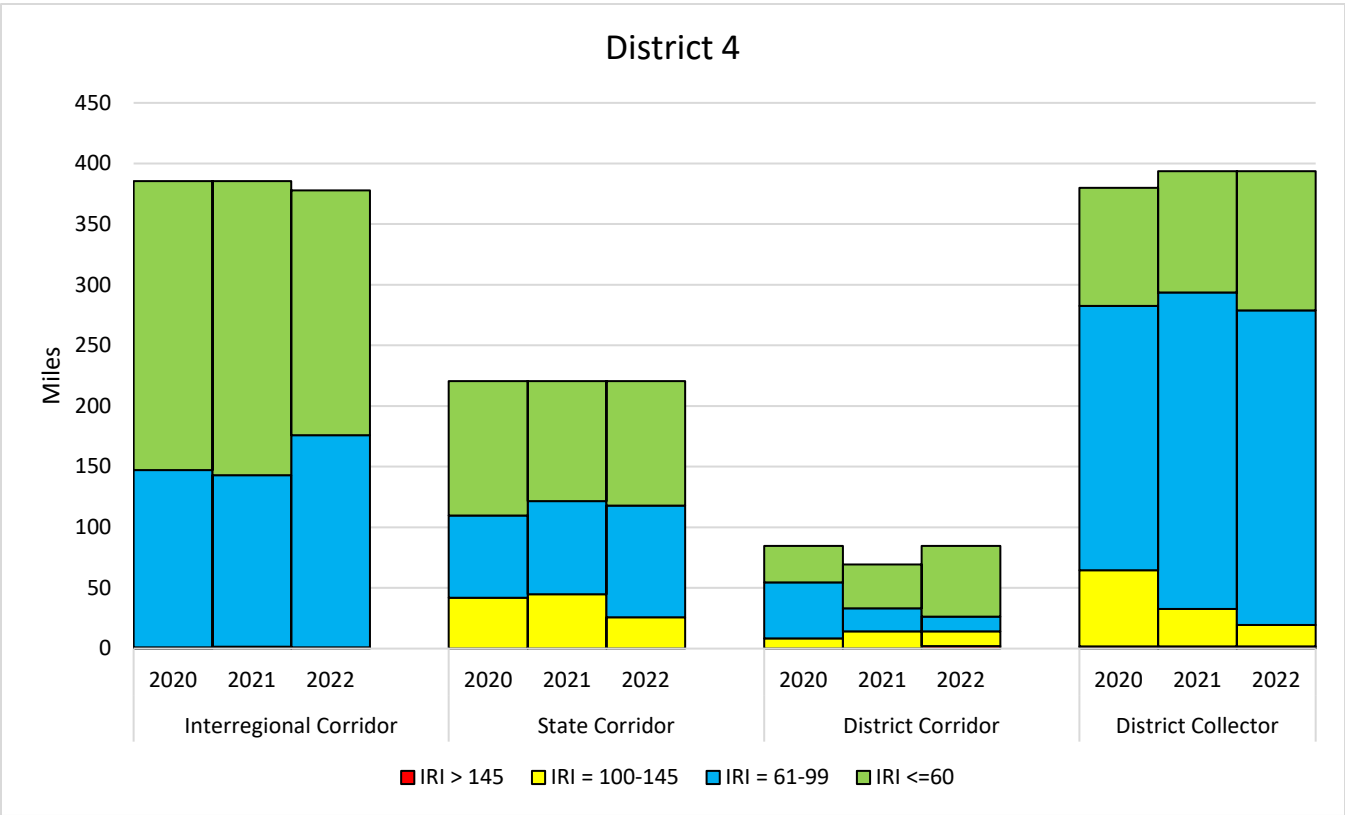
Minot, ND



# MINOT DISTRICT



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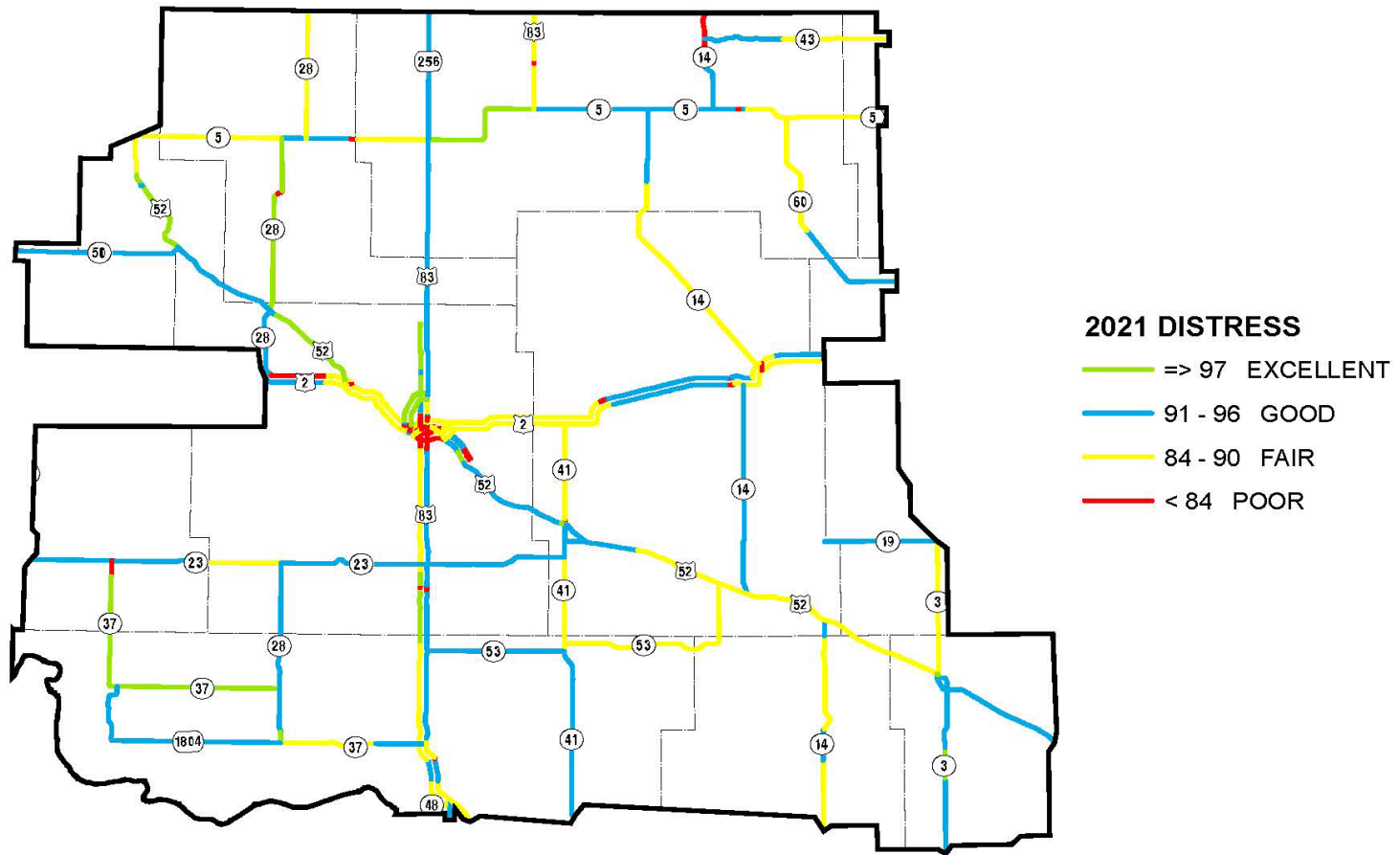
# IRI

2022	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	377.85	202.02	174.71	1.13	0	53.47%	46.24%	0.30%	0.00%
State Corridor	220.56	102.73	91.9	25.94	0	46.58%	41.67%	11.76%	0.00%
District Corridor	84.56	58.09	12.14	12.32	2.01	68.70%	14.36%	14.57%	2.38%
District Collector	393.6	114.62	259.61	17.69	1.69	29.12%	65.96%	4.49%	0.43%

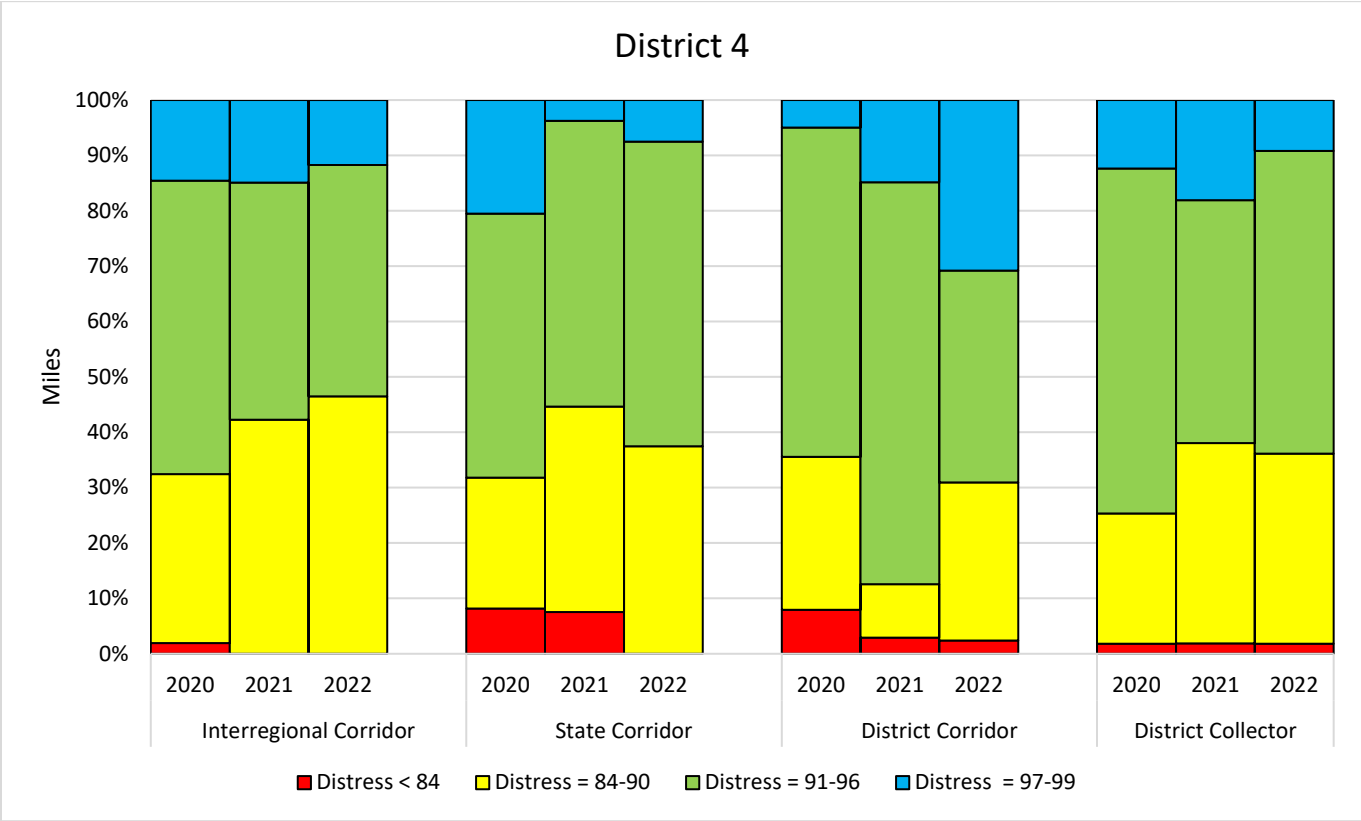
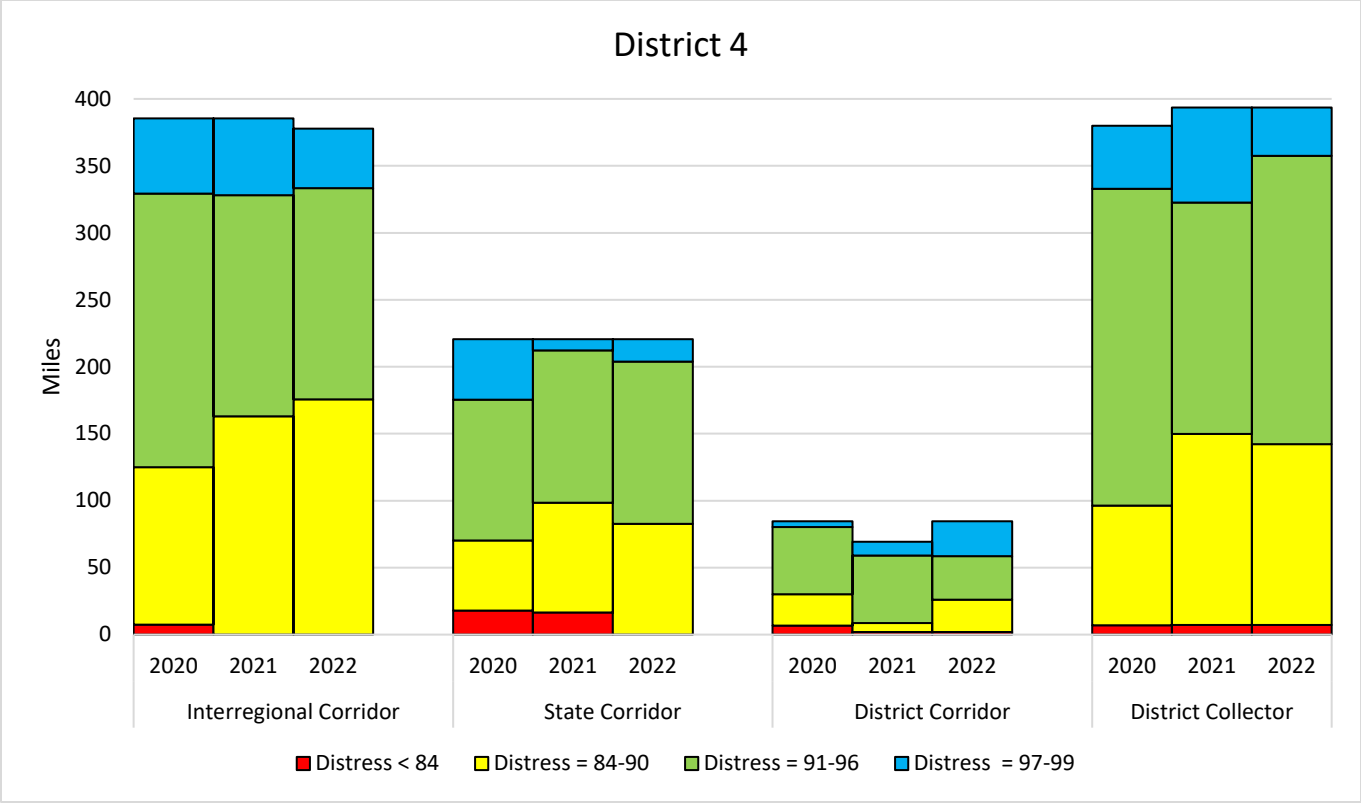
2021	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	385.42	0	1.65	141.25	242.53	0.00%	0.43%	36.65%	62.93%
State Corridor	220.56	0	44.87	76.74	98.95	0.00%	20.34%	34.79%	44.86%
District Corridor	69.41	0	14.33	18.87	36.21	0.00%	20.65%	27.19%	52.17%
District Collector	393.6	1.69	30.86	261.17	99.88	0.43%	7.84%	66.35%	25.38%

2020	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	385.4	238.3	146	0.9	0.2	61.83%	37.88%	0.23%	0.05%
State Corridor	220.6	110.8	68	41.8	0	50.23%	30.83%	18.95%	0.00%
District Corridor	84.6	30	46.1	8.5	0	35.46%	54.49%	10.05%	0.00%
District Collector	379.9	97.2	218.2	62.8	1.7	25.59%	57.44%	16.53%	0.45%

# MINOT DISTRICT



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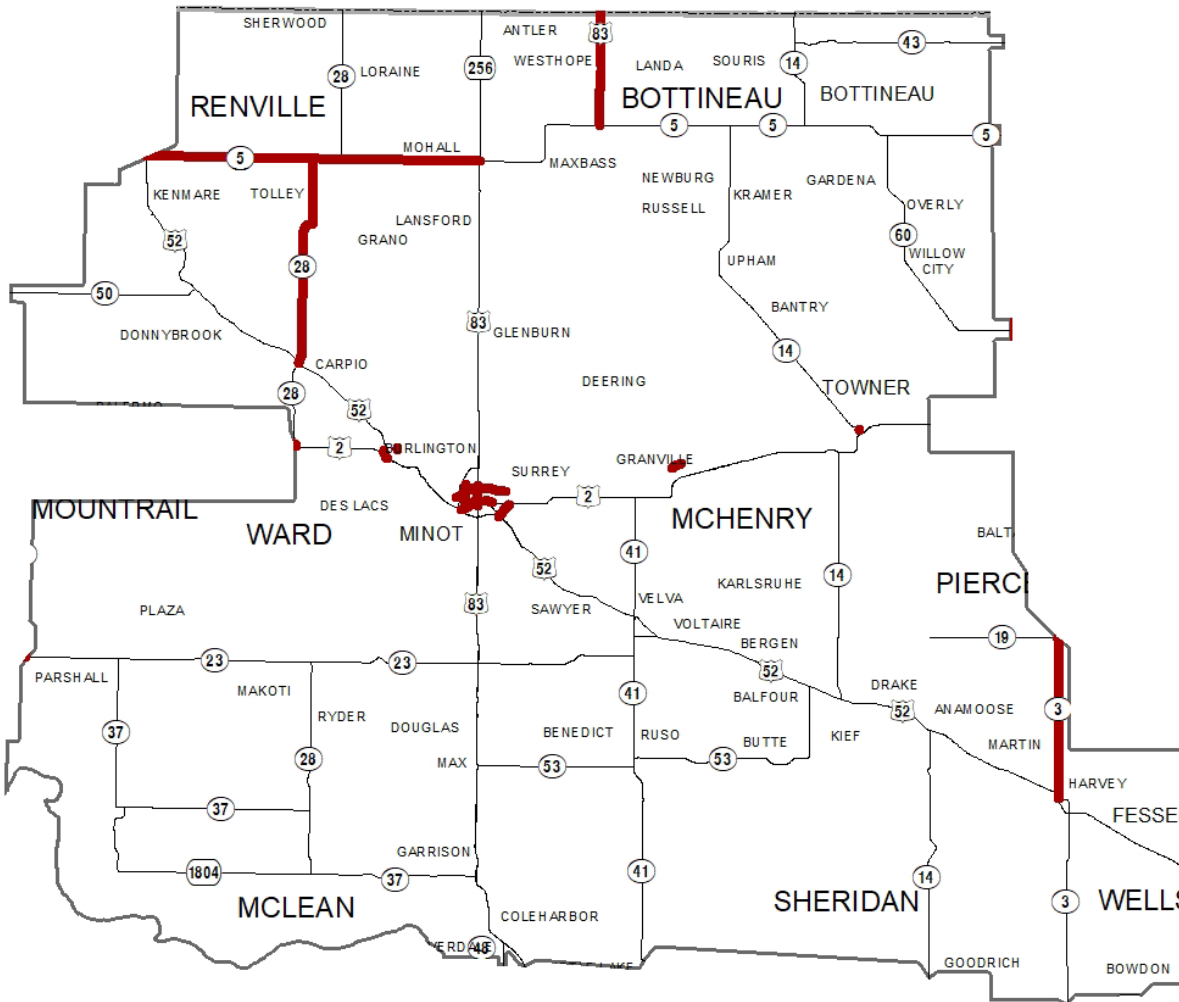
## Distress

2022	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	377.85	0	175.75	157.72	44.39	0.00%	46.51%	41.74%	11.75%
State Corridor	220.56	0	82.59	121.37	16.6	0.00%	37.45%	55.03%	7.53%
District Corridor	84.56	2.01	24.18	32.33	26.04	2.38%	28.60%	38.23%	30.79%
District Collector	393.6	7.15	135.15	215.12	36.18	1.82%	34.34%	54.65%	9.19%

2021	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	385.42	0	162.92	165.15	57.35	0.00%	42.27%	42.85%	14.88%
State Corridor	220.56	16.6	81.88	113.82	8.25	7.53%	37.12%	51.61%	3.74%
District Corridor	69.41	2.01	6.73	50.35	10.32	2.90%	9.70%	72.54%	14.87%
District Collector	393.6	7.32	142.49	172.7	71.09	1.86%	36.20%	43.88%	18.06%

2020	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	385.4	7.5	117.5	204.2	56.2	1.95%	30.49%	52.98%	14.58%
State Corridor	220.6	18	52.2	105.1	45.3	8.16%	23.66%	47.64%	20.53%
District Corridor	84.6	6.7	23.4	50.3	4.2	7.92%	27.66%	59.46%	4.96%
District Collector	379.9	6.9	89.4	236.6	47	1.82%	23.52%	62.28%	12.37%

### Minot District Functional Capacity Restricted Miles



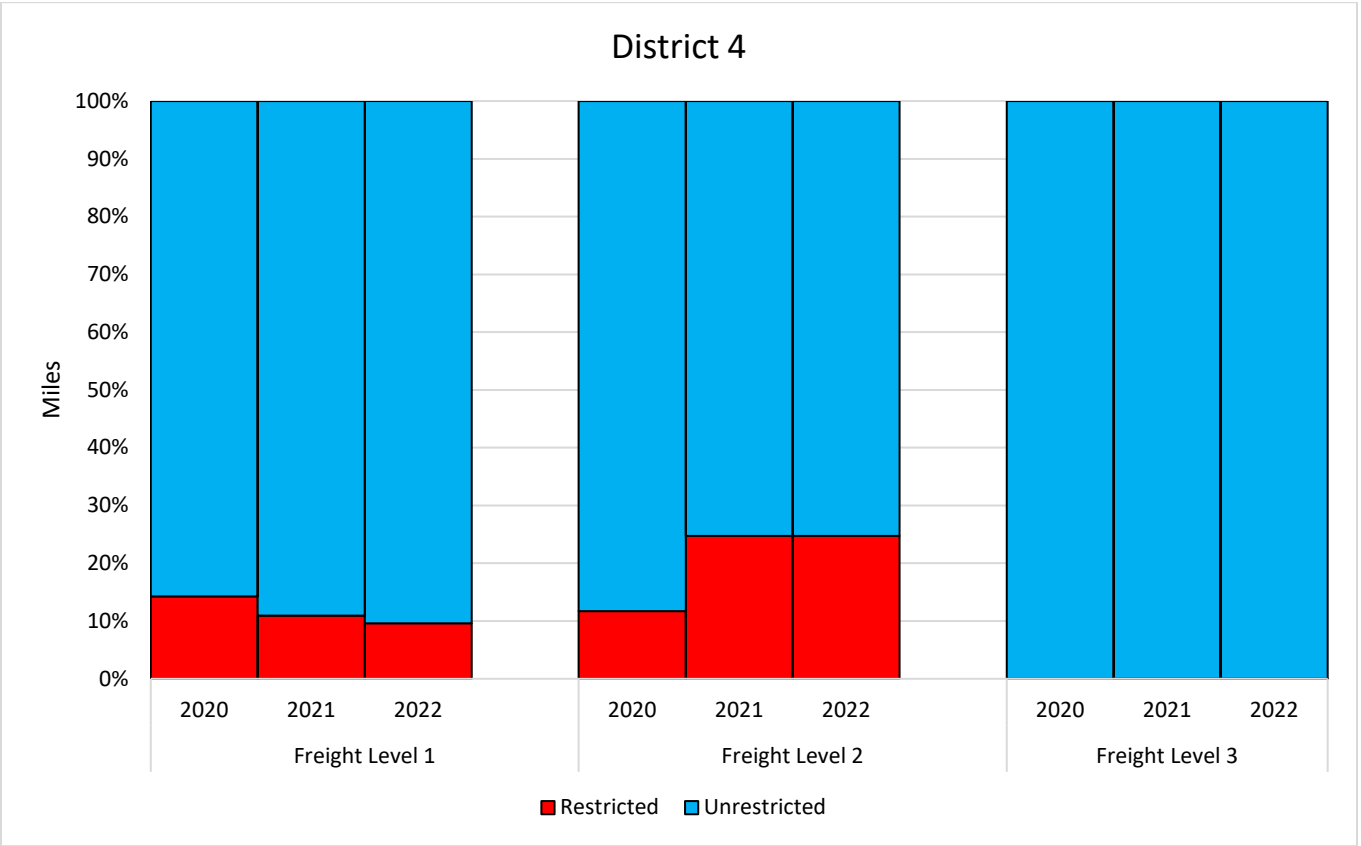
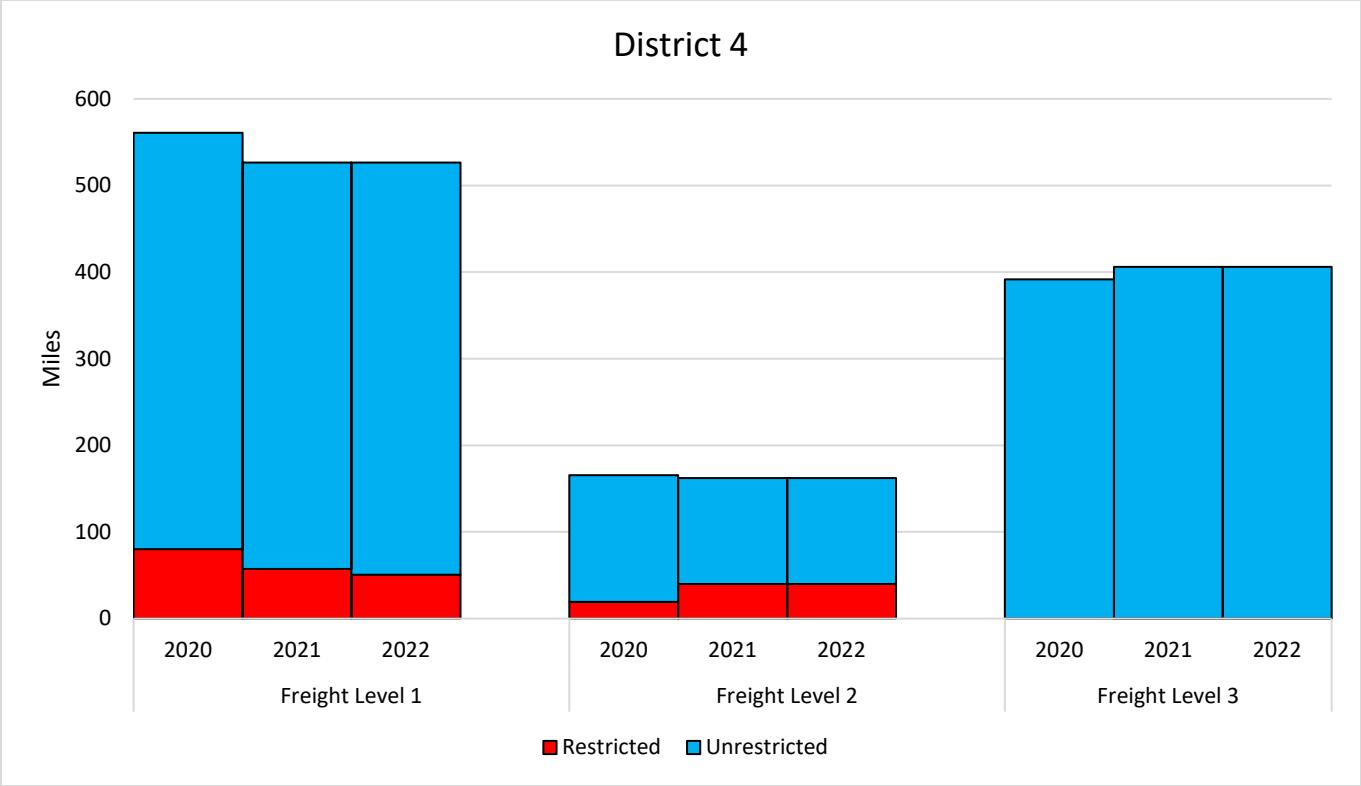
**Restricted Roadways**

Restrictions Include:  
 Load Restriction  
 Capacity Restriction  
 Structure Height Restriction  
 Structure Width Restriction  
 Roadway Width Restriction



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 FEDERAL HIGHWAY DEPARTMENT

March 2023





## Functional Capacity

2022	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	526.58	50.58	476	9.61%	90.39%
Freight Level 2	162.31	40.14	122.17	24.73%	75.27%
Freight Level 3	406.11	0.08	406.03	0.02%	99.98%

2021	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	526.58	57.45	469.13	10.91%	89.09%
Freight Level 2	162.31	40.14	122.17	24.73%	75.27%
Freight Level 3	406.11	0.08	406.03	0.02%	99.98%

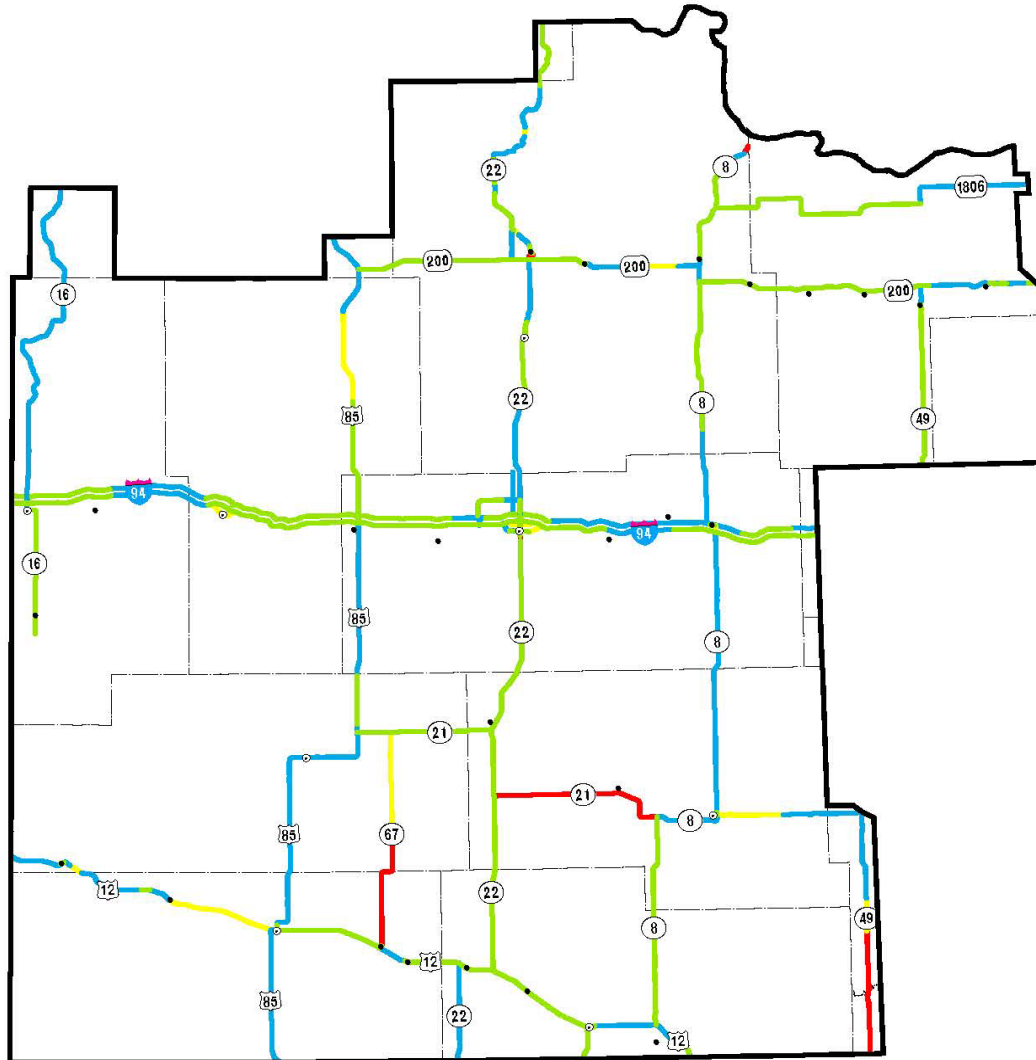
2020	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	560.9	80.1	480.8	14.28%	85.72%
Freight Level 2	165.7	19.4	146.3	11.71%	88.29%
Freight Level 3	391.6	0	391.6	0.00%	100.00%



# DISTRICT 5

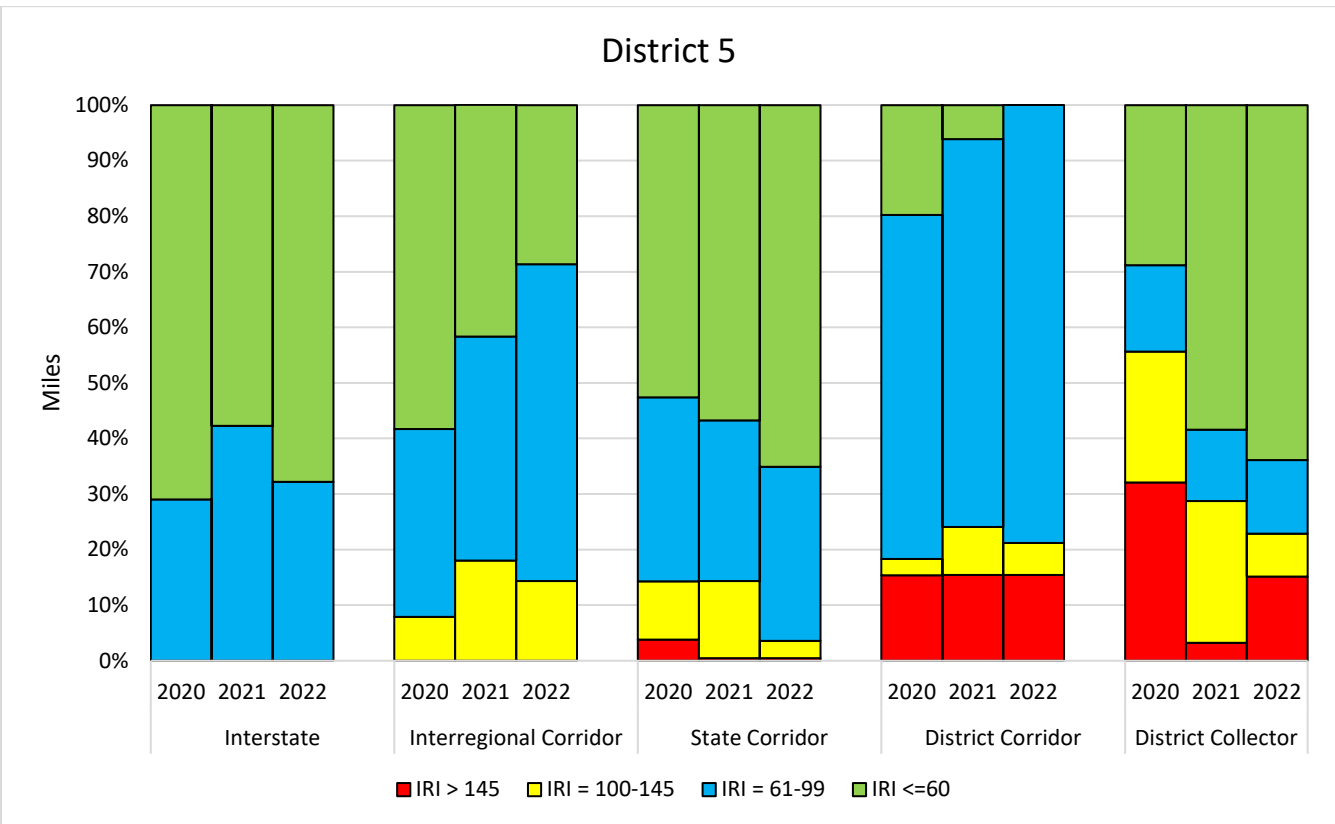
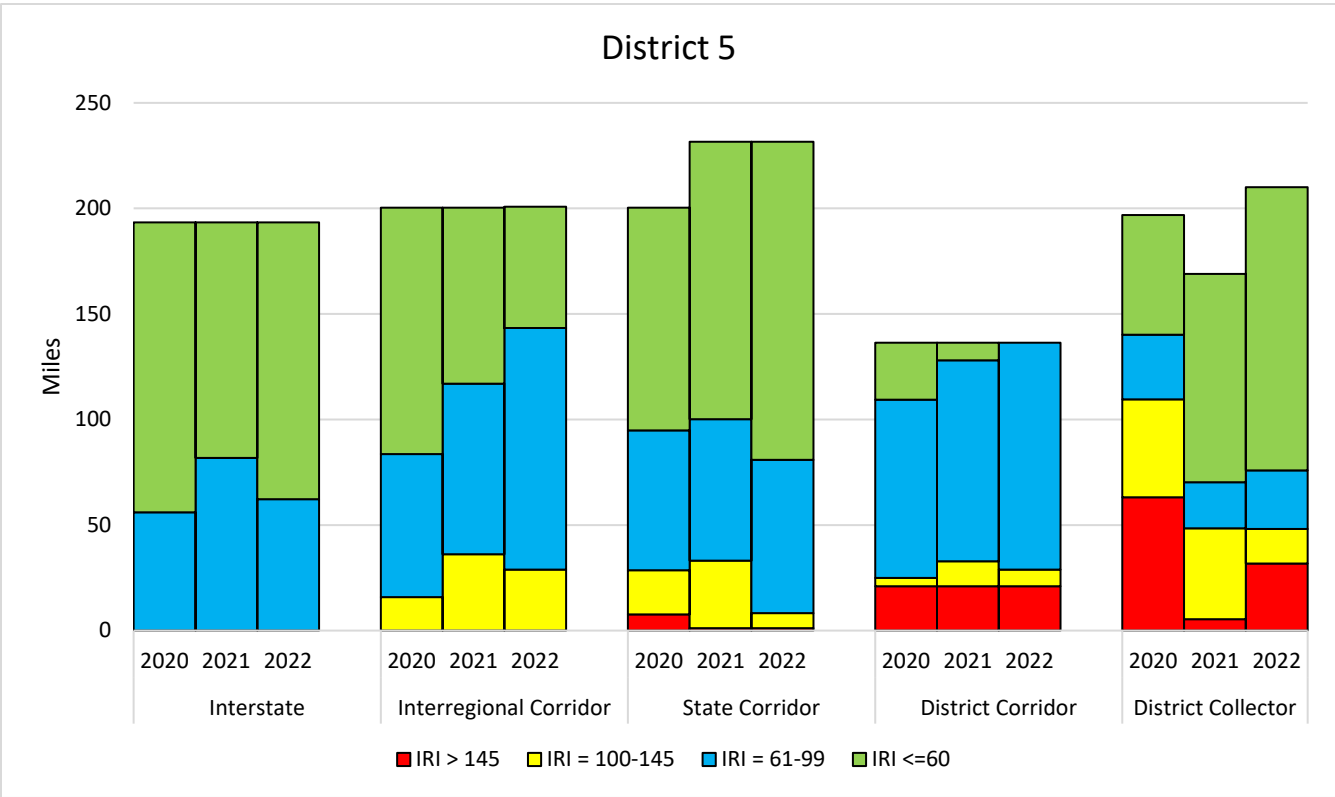
Dickinson, ND

# DICKINSON DISTRICT



## 2022 IRI

- 0 - 60, EXCELLENT
- 60.1 - 99, GOOD
- 99.1 - 145, FAIR
- > 145.1, POOR



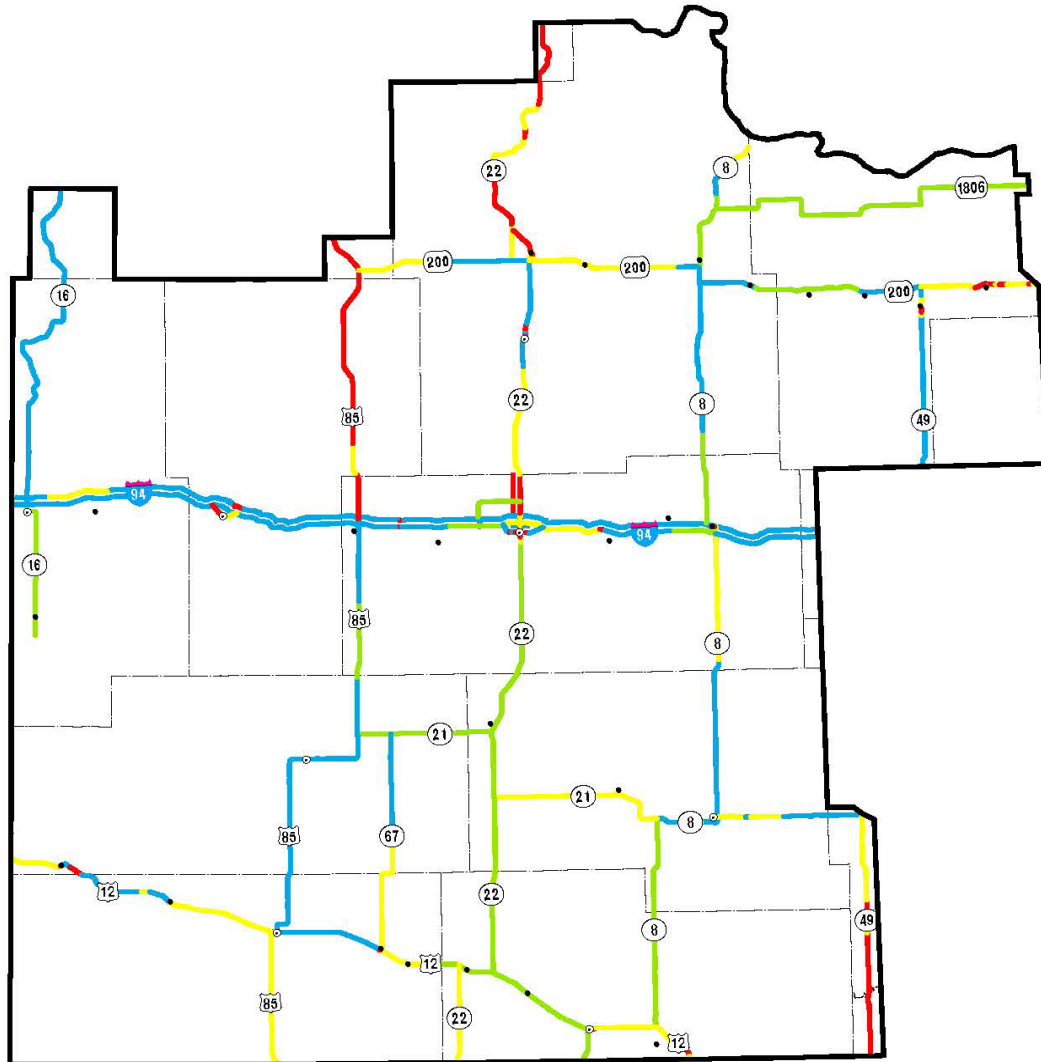
# IRI

2022	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	193.43	131.12	62.31	0	0	67.79%	32.21%	0.00%	0.00%
Interregional Corridor	200.84	57.5	114.5	28.83	0	28.63%	57.01%	14.35%	0.00%
State Corridor	231.58	150.68	72.61	7.16	1.14	65.07%	31.35%	3.09%	0.49%
District Corridor	136.45	0	107.53	7.87	21.05	0.00%	78.81%	5.77%	15.43%
District Collector	210	134.11	27.81	16.24	31.84	63.86%	13.24%	7.73%	15.16%

2021	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	193.43	0	0	81.8	111.63	0.00%	0.00%	42.29%	57.71%
Interregional Corridor	200.41	0	36.15	80.81	83.46	0.00%	18.04%	40.32%	41.64%
State Corridor	231.58	1.13	32.04	66.95	131.46	0.49%	13.84%	28.91%	56.77%
District Corridor	136.45	21.05	11.81	95.24	8.35	15.43%	8.66%	69.80%	6.12%
District Collector	168.97	5.46	43.06	21.72	98.73	3.23%	25.48%	12.85%	58.43%

2020	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	193.4	137.3	56.1	0	0	70.99%	29.01%	0.00%	0.00%
Interregional Corridor	200.4	116.8	67.8	15.8	0	58.28%	33.83%	7.88%	0.00%
State Corridor	200.3	105.4	66.3	21	7.6	52.62%	33.10%	10.48%	3.79%
District Corridor	136.4	27	84.4	4	21	19.79%	61.88%	2.93%	15.40%
District Collector	196.8	56.7	30.6	46.4	63.1	28.81%	15.55%	23.58%	32.06%

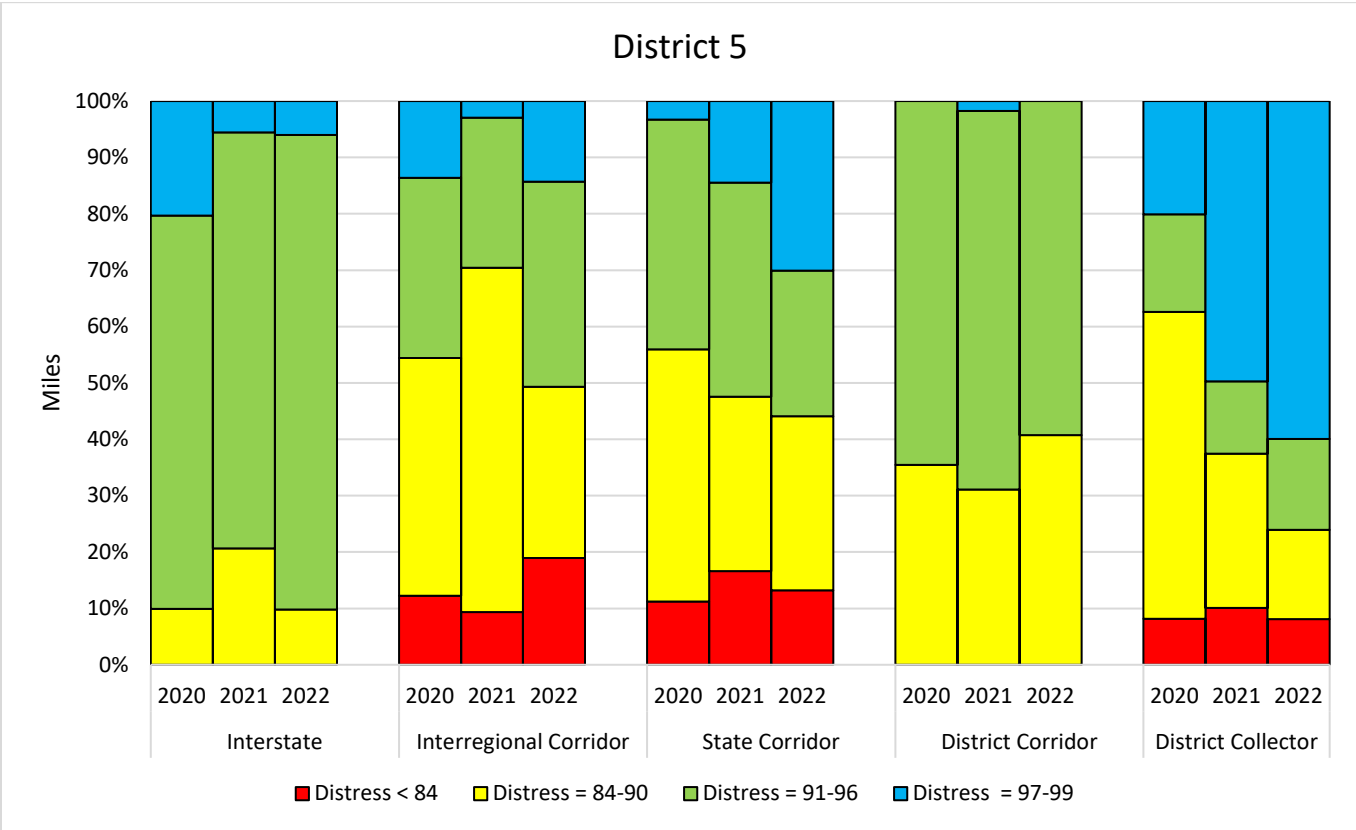
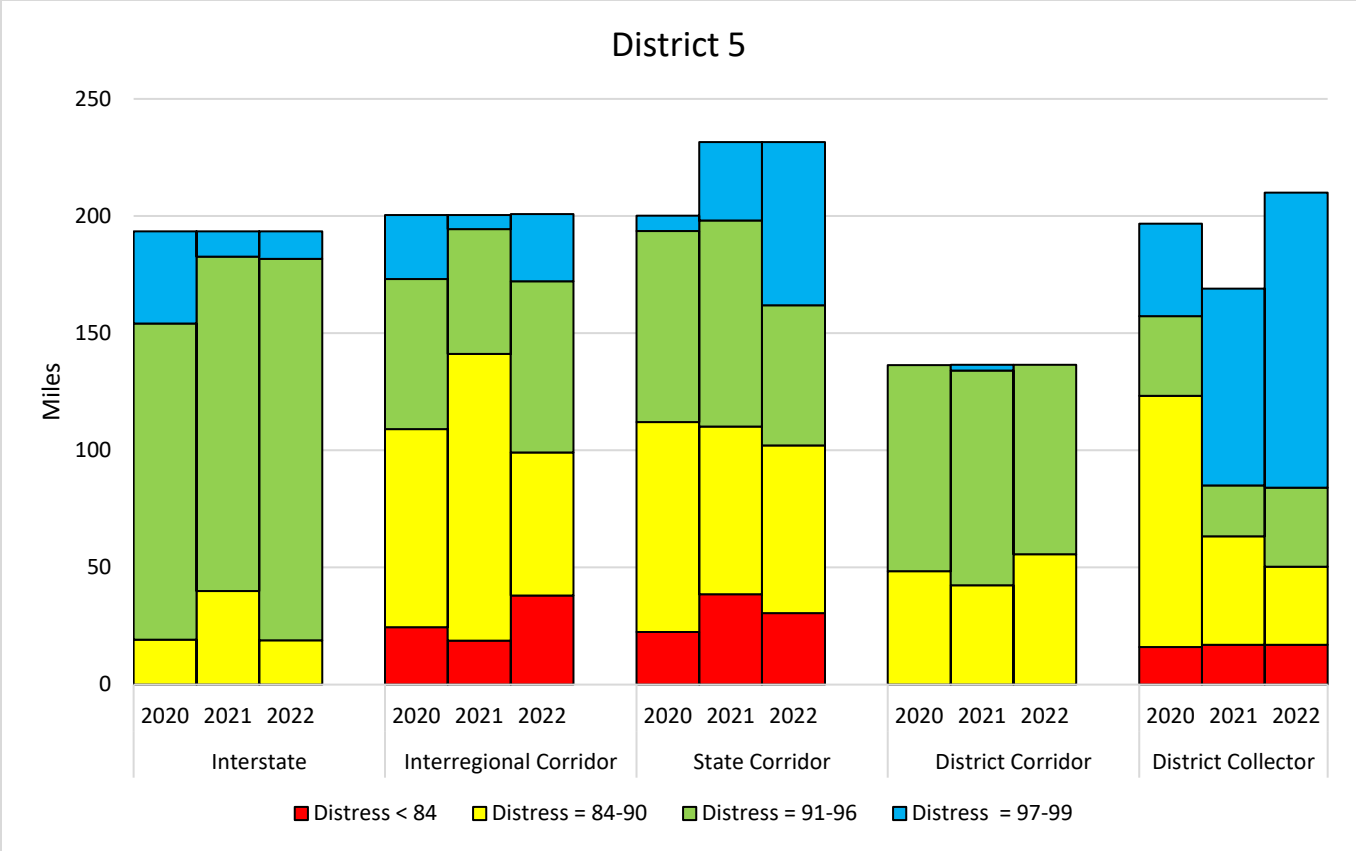
# DICKINSON DISTRICT



## 2021 DISTRESS

- => 97 EXCELLENT
- 91 - 96 GOOD
- 84 - 90 FAIR
- < 84 POOR

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## Distress

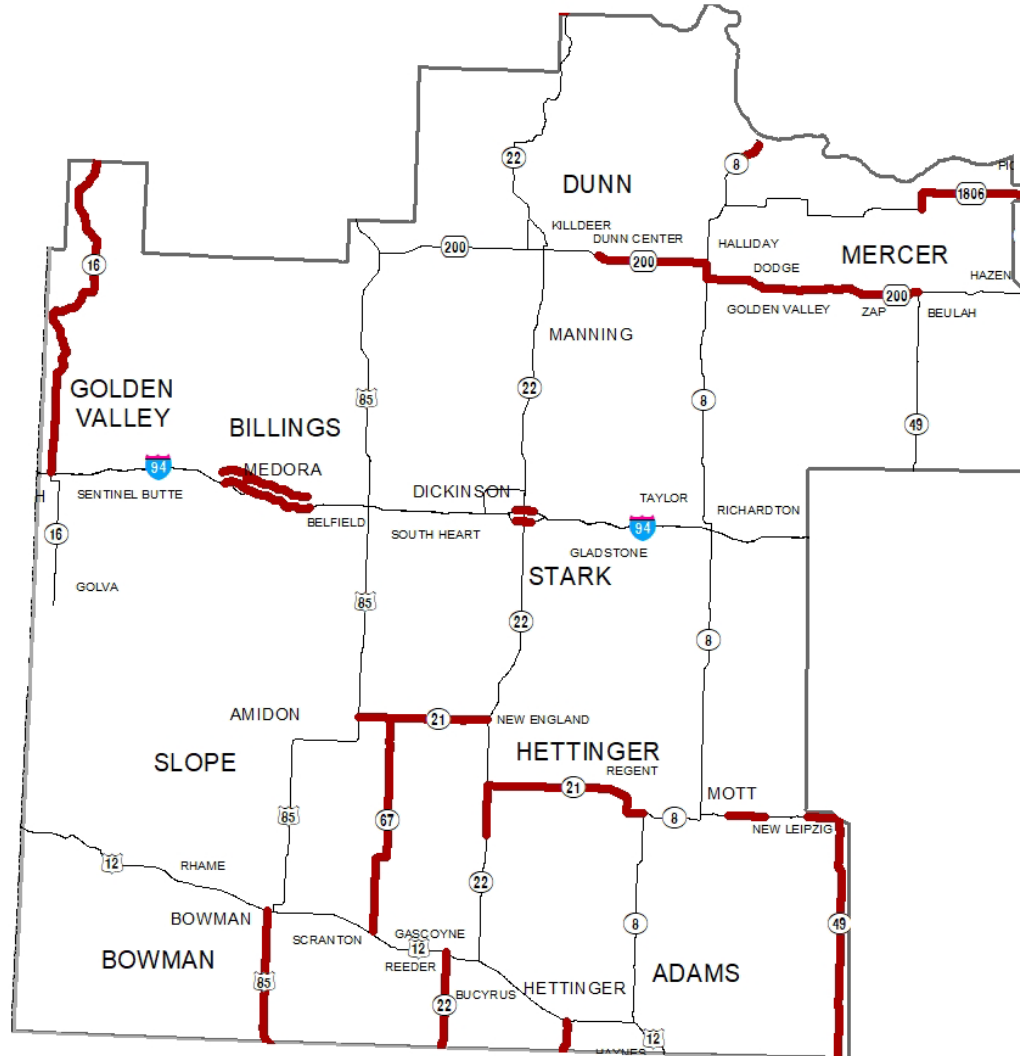
2022	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	193.43	0	18.92	162.85	11.66	0.00%	9.78%	84.19%	6.03%
Interregional Corridor	200.84	38.06	61	73.11	28.67	18.95%	30.37%	36.40%	14.28%
State Corridor	231.58	30.58	71.54	59.75	69.71	13.20%	30.89%	25.80%	30.10%
District Corridor	136.45	0	55.62	80.83	0	0.00%	40.76%	59.24%	0.00%
District Collector	210	17	33.3	33.82	125.88	8.10%	15.86%	16.10%	59.94%


2021	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	193.43	0	39.88	142.75	10.8	0.00%	20.62%	73.80%	5.58%
Interregional Corridor	200.41	18.7	122.41	53.35	5.95	9.33%	61.08%	26.62%	2.97%
State Corridor	231.58	38.52	71.61	87.98	33.47	16.63%	30.92%	37.99%	14.45%
District Corridor	136.45	0	42.44	91.6	2.41	0.00%	31.10%	67.13%	1.77%
District Collector	168.97	17	46.29	21.7	83.98	10.06%	27.40%	12.84%	49.70%

2020	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	193.4	0	19.2	134.9	39.3	0.00%	9.93%	69.75%	20.32%
Interregional Corridor	200.4	24.5	84.6	64	27.3	12.23%	42.22%	31.94%	13.62%
State Corridor	200.3	22.5	89.5	81.6	6.6	11.24%	44.71%	40.76%	3.30%
District Corridor	136.4	0	48.4	88	0	0.00%	35.48%	64.52%	0.00%
District Collector	196.8	16	107.2	34.1	39.5	8.13%	54.47%	17.33%	20.07%



### Dickinson District Functional Capacity Restricted Miles



 Restricted Roadways

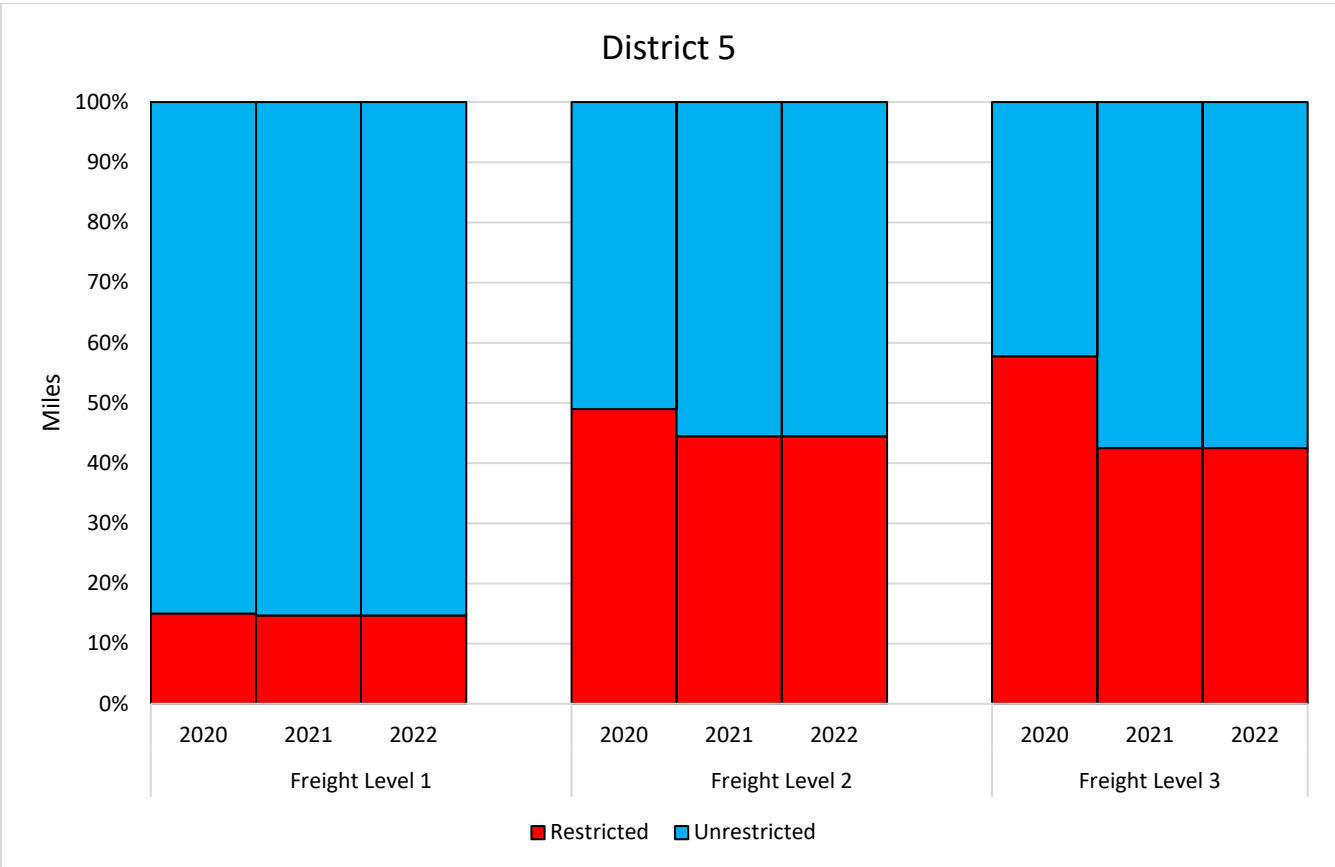
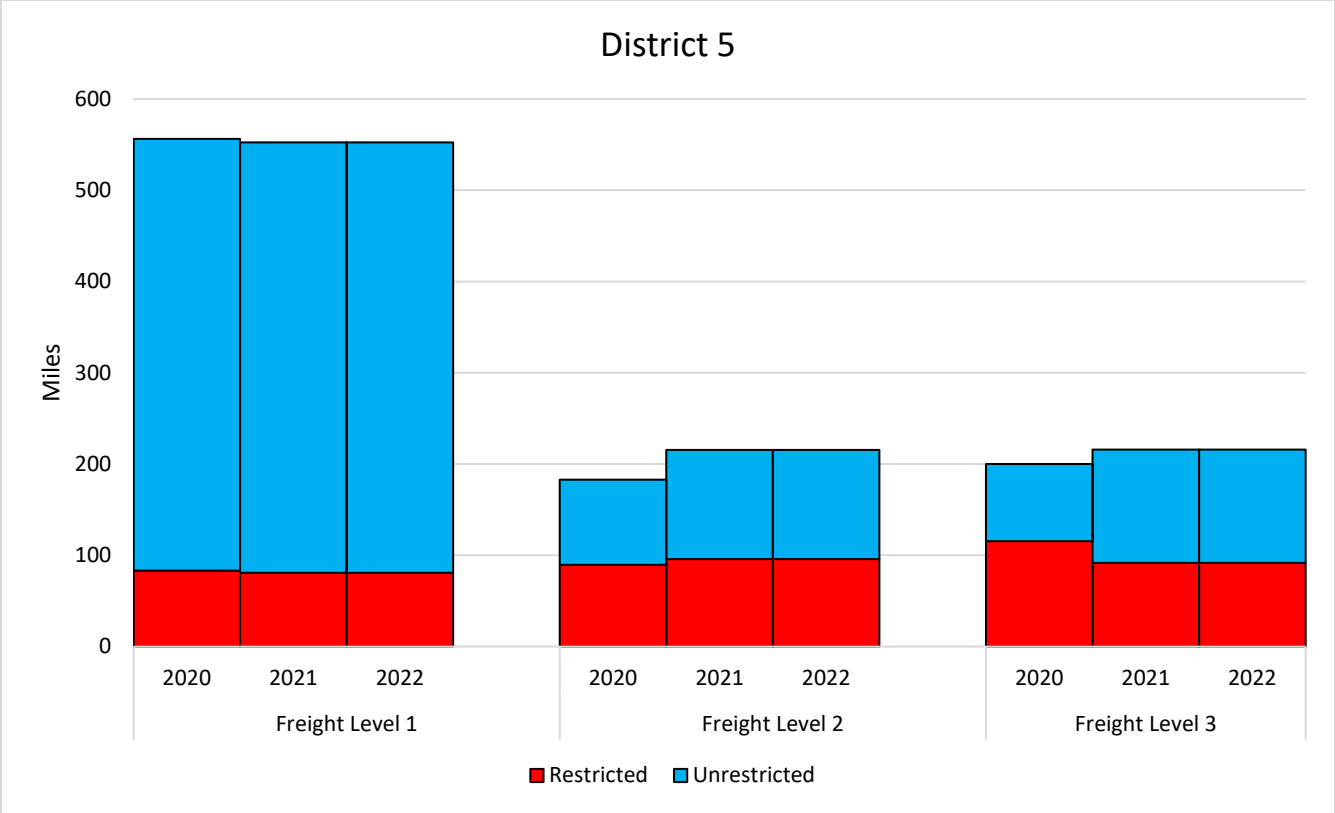
Restrictions Include:  
 Load Restriction  
 Capacity Restriction  
 Structure Height Restriction  
 Structure Width Restriction  
 Roadway Width Restriction



STATE OF  
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 FEDERAL HIGHWAY DEPARTMENT

March 2023



## Functional Capacity

2022	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	552.34	80.94	471.4	14.65%	85.35%
Freight Level 2	215.47	95.77	119.7	44.45%	55.55%
Freight Level 3	215.81	91.75	124.06	42.51%	57.49%

2021	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	552.34	80.94	471.4	14.65%	85.35%
Freight Level 2	215.47	95.77	119.7	44.45%	55.55%
Freight Level 3	215.81	91.75	124.06	42.51%	57.49%

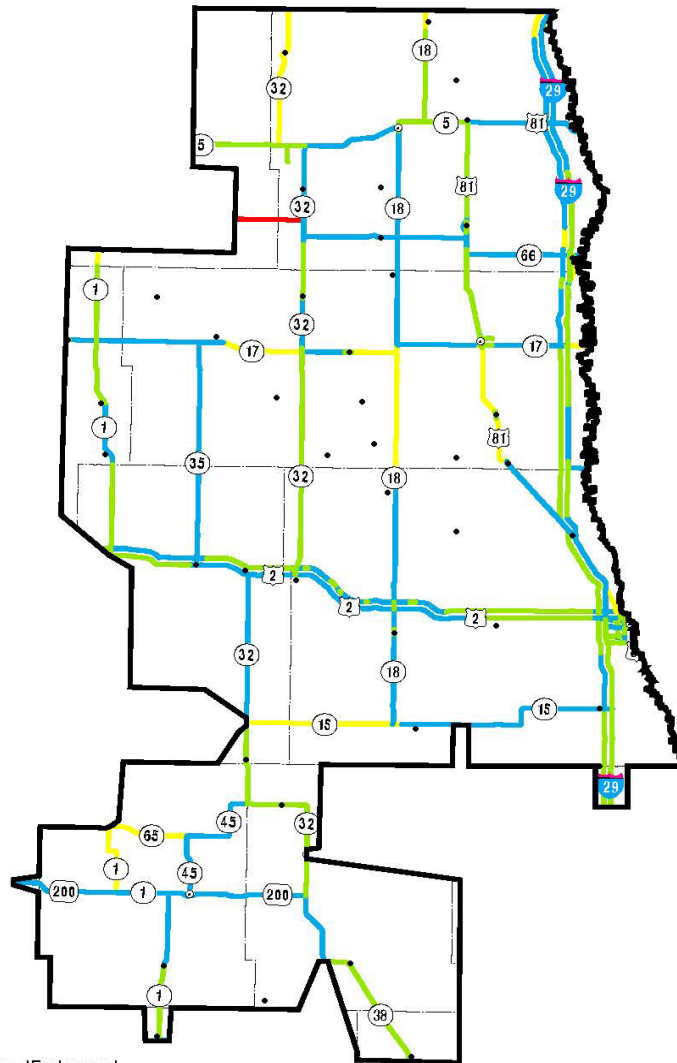
2020	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	556.2	83.4	472.8	14.99%	85.01%
Freight Level 2	182.9	89.6	93.3	48.99%	51.01%
Freight Level 3	200.2	115.6	84.6	57.74%	42.26%



# DISTRICT 6

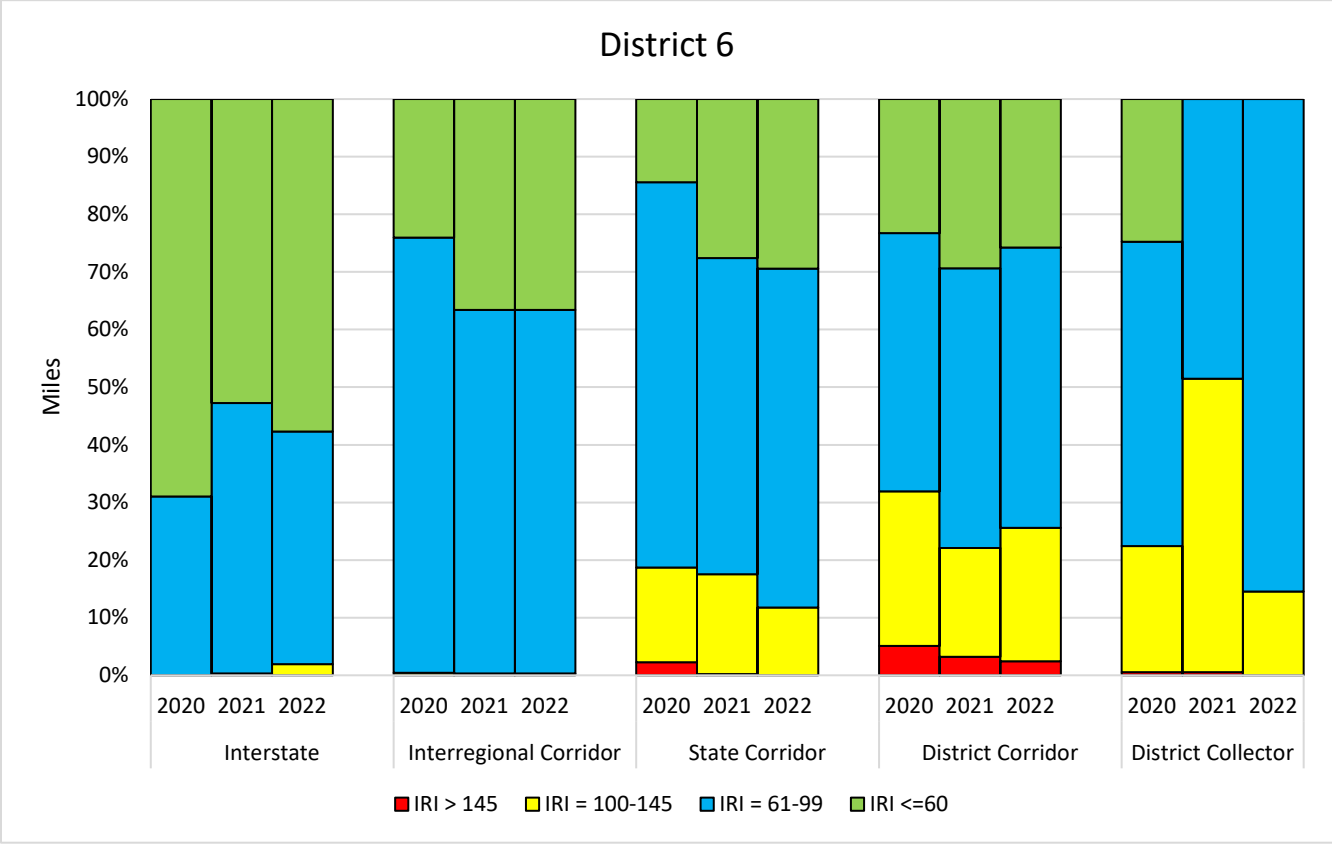
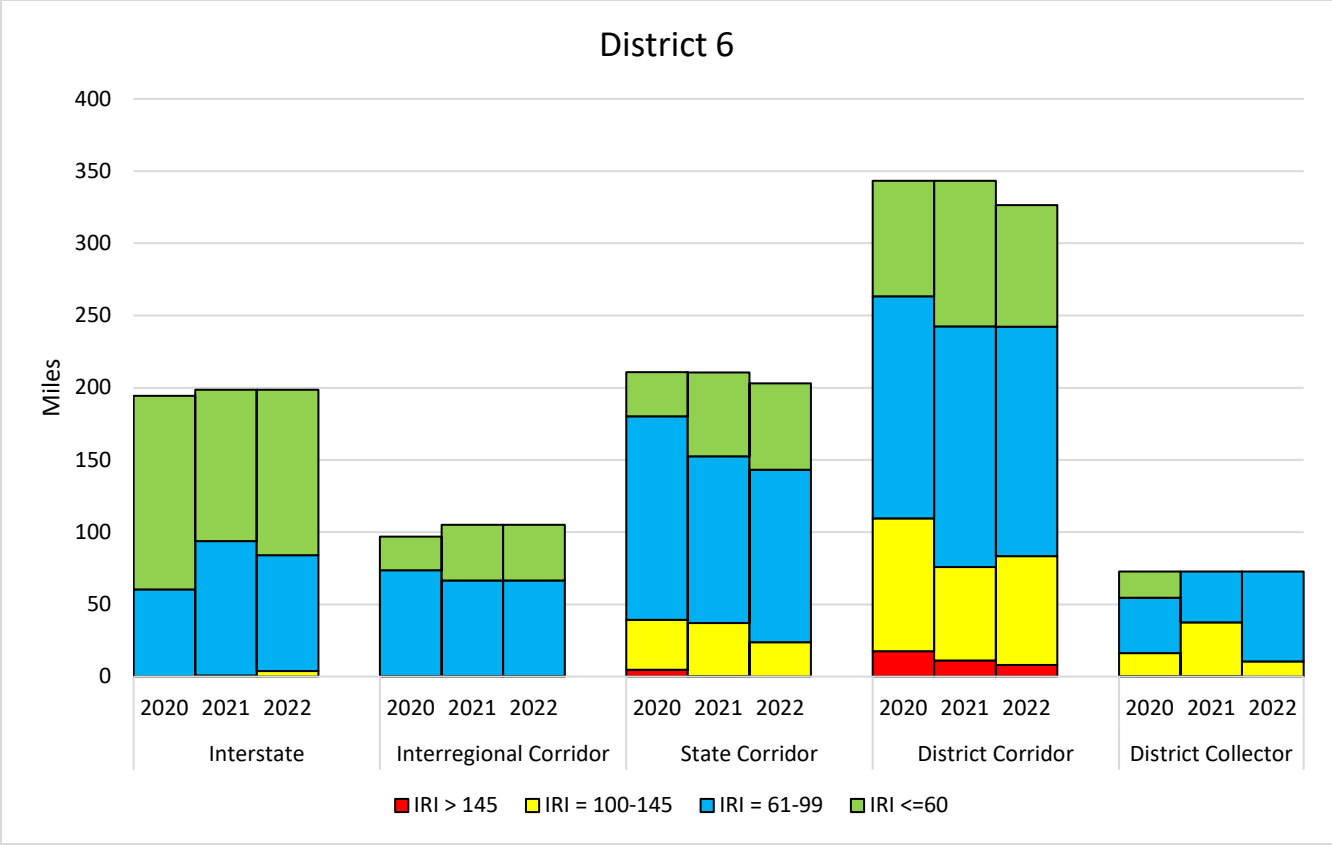
## Grand Forks, ND

# GRAND FORKS DISTRICT



## 2022 IRI

- 0 - 60, EXCELLENT
- 60.1 - 99, GOOD
- 99.1 - 145, FAIR
- > 145.1, POOR



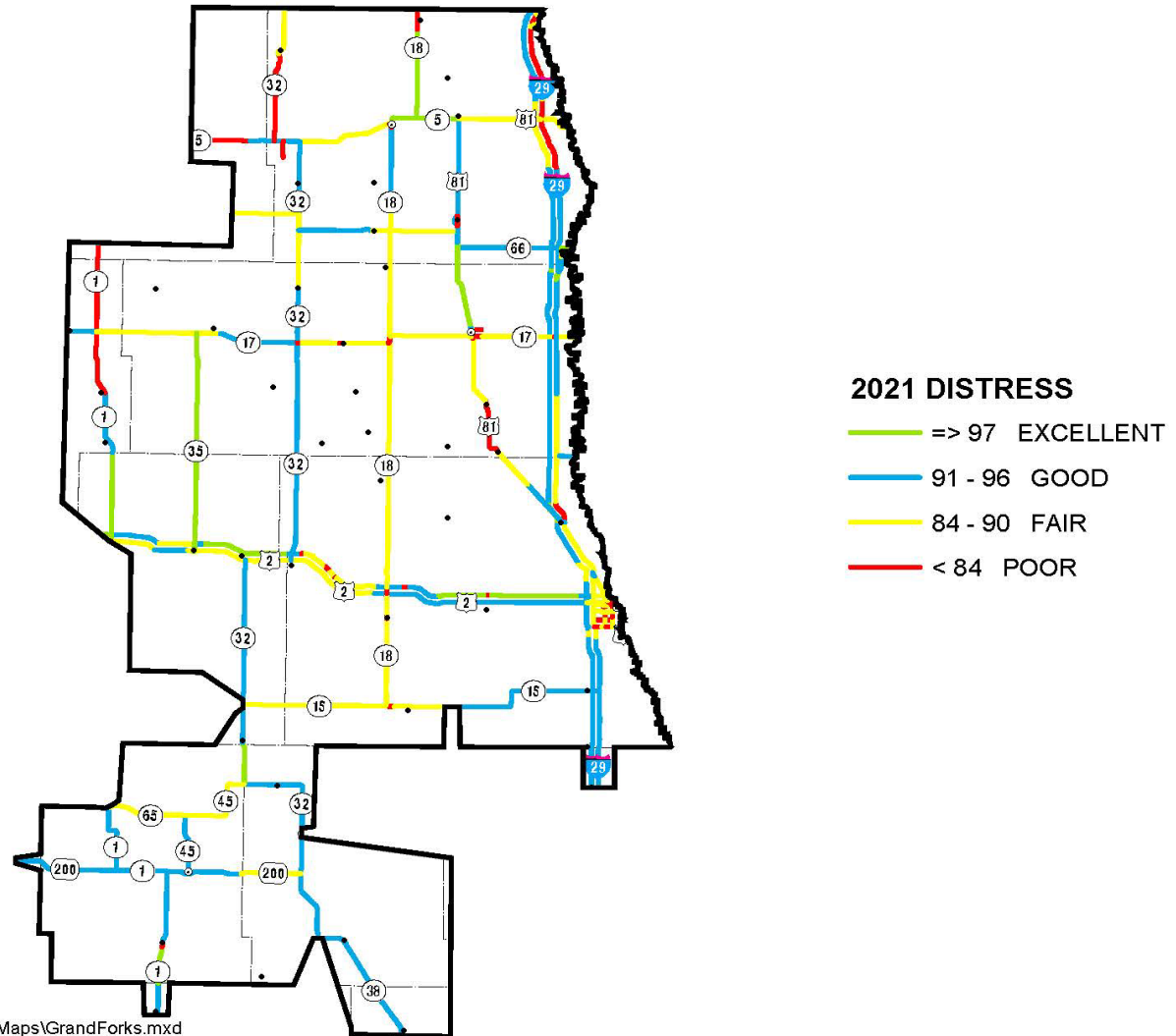
# IRI

2022	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	198.55	114.5	80.21	3.84	0	57.67%	40.40%	1.93%	0.00%
Interregional Corridor	105.01	38.45	66.2	0.37	0	36.62%	63.04%	0.35%	0.00%
State Corridor	202.99	59.77	119.33	23.9	0	29.44%	58.79%	11.77%	0.00%
District Corridor	326.37	84.03	158.87	75.44	8.03	25.75%	48.68%	23.11%	2.46%
District Collector	72.7	0	62.13	10.57	0	0.00%	85.46%	14.54%	0.00%

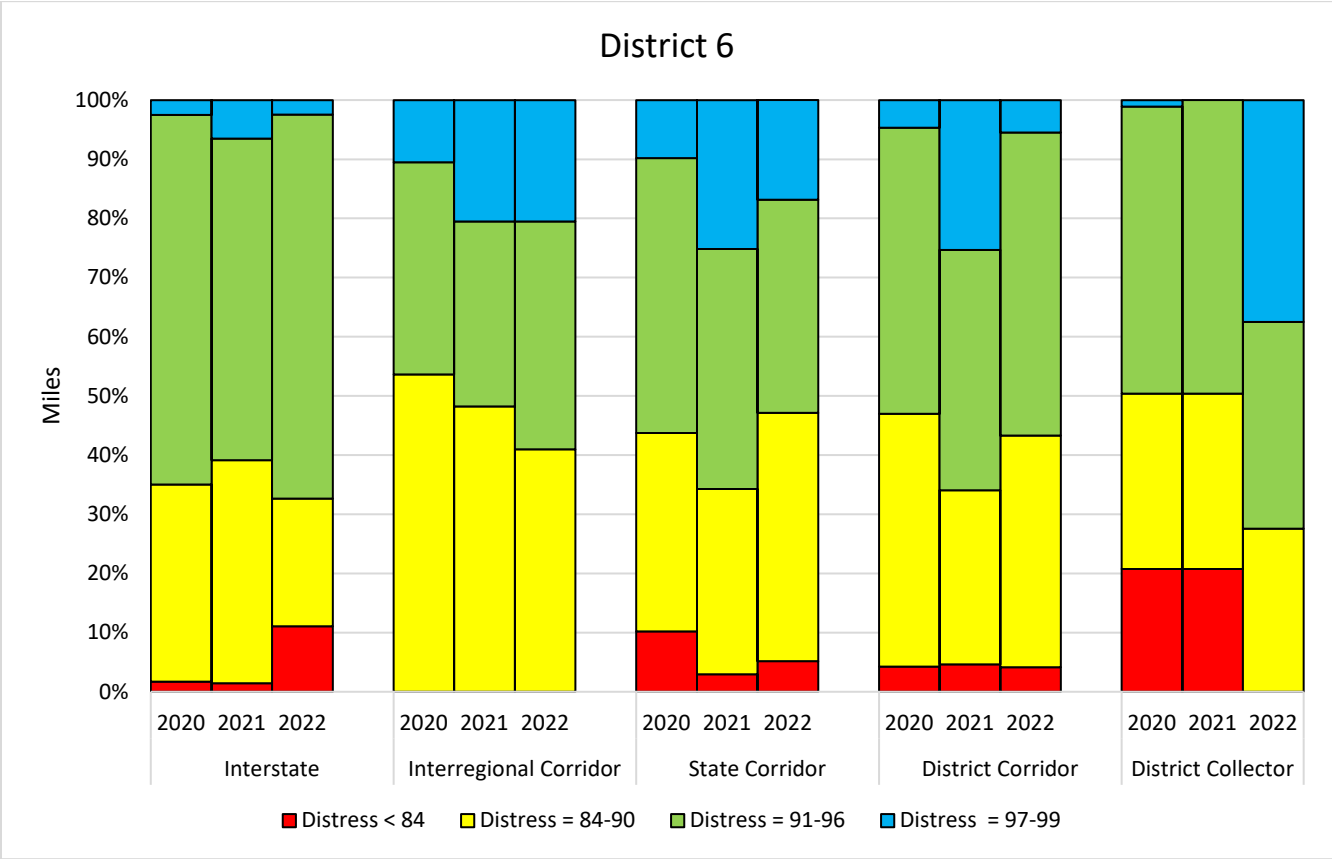
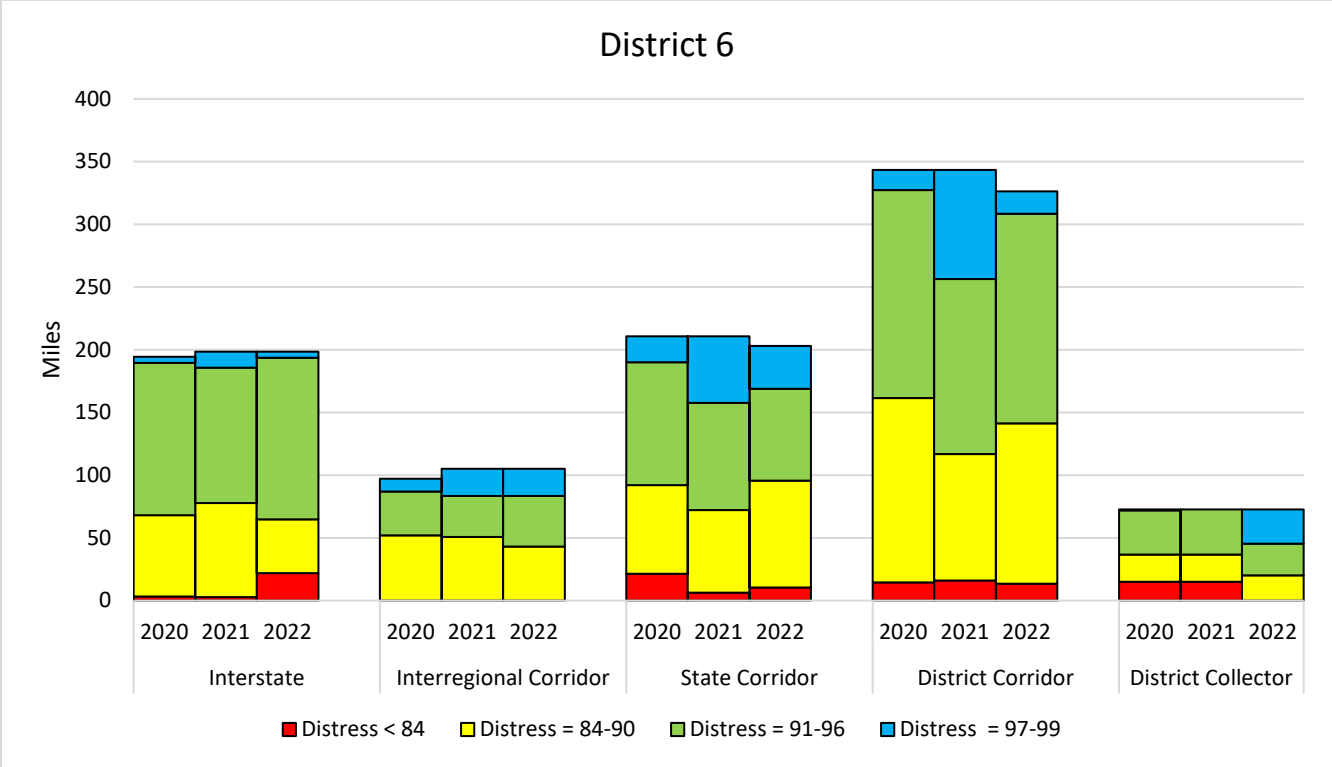
2021	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	198.55	0	0.65	93.16	104.74	0.00%	0.33%	46.92%	52.75%
Interregional Corridor	105.01	0	0.36	66.2	38.45	0.00%	0.34%	63.04%	36.62%
State Corridor	210.68	0.4	36.59	115.61	58.08	0.19%	17.37%	54.87%	27.57%
District Corridor	343.33	11.08	64.7	166.65	100.9	3.23%	18.84%	48.54%	29.39%
District Collector	72.7	0.4	37.03	35.27	0	0.55%	50.94%	48.51%	0.00%

2020	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	194.4	134.1	60.3	0	0	68.98%	31.02%	0.00%	0.00%
Interregional Corridor	97	23.3	73.3	0.4	0	24.02%	75.57%	0.41%	0.00%
State Corridor	210.7	30.4	140.9	34.6	4.8	14.43%	66.87%	16.42%	2.28%
District Corridor	343.3	79.9	153.8	92	17.6	23.27%	44.80%	26.80%	5.13%
District Collector	72.7	18	38.4	15.9	0.4	24.76%	52.82%	21.87%	0.55%

# GRAND FORKS DISTRICT







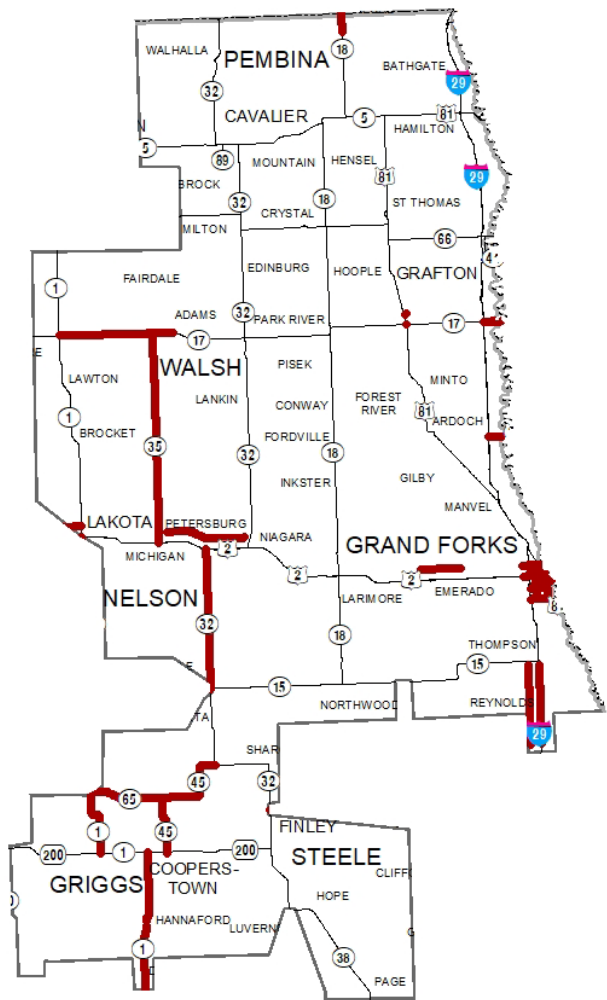
## Distress

2022	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	198.55	21.95	42.87	128.85	4.88	11.06%	21.59%	64.90%	2.46%
Interregional Corridor	105.01	0	43.03	40.45	21.53	0.00%	40.98%	38.52%	20.50%
State Corridor	202.99	10.47	85.24	73.07	34.22	5.16%	41.99%	36.00%	16.86%
District Corridor	326.37	13.45	127.82	167.12	17.99	4.12%	39.16%	51.21%	5.51%
District Collector	72.7	0	20.04	25.4	27.26	0.00%	27.57%	34.94%	37.50%

2021	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	198.55	2.87	74.8	107.99	12.89	1.45%	37.67%	54.39%	6.49%
Interregional Corridor	105.01	0	50.62	32.86	21.53	0.00%	48.20%	31.29%	20.50%
State Corridor	210.68	6.23	65.92	85.45	53.08	2.96%	31.29%	40.56%	25.19%
District Corridor	343.33	15.93	100.98	139.37	87.05	4.64%	29.41%	40.59%	25.35%
District Collector	72.7	15.08	21.56	36.06	0	20.74%	29.66%	49.60%	0.00%

2020	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	194.4	3.3	64.8	121.4	4.9	1.70%	33.33%	62.45%	2.52%
Interregional Corridor	97	0	52.1	34.8	10.2	0.00%	53.66%	35.84%	10.50%
State Corridor	210.7	21.5	70.7	97.8	20.7	10.20%	33.55%	46.42%	9.82%
District Corridor	343.3	14.6	146.8	166	16	4.25%	42.75%	48.34%	4.66%
District Collector	72.7	15.1	21.6	35.3	0.8	20.74%	29.67%	48.49%	1.10%

### Grand Forks District Functional Capacity Restricted Miles

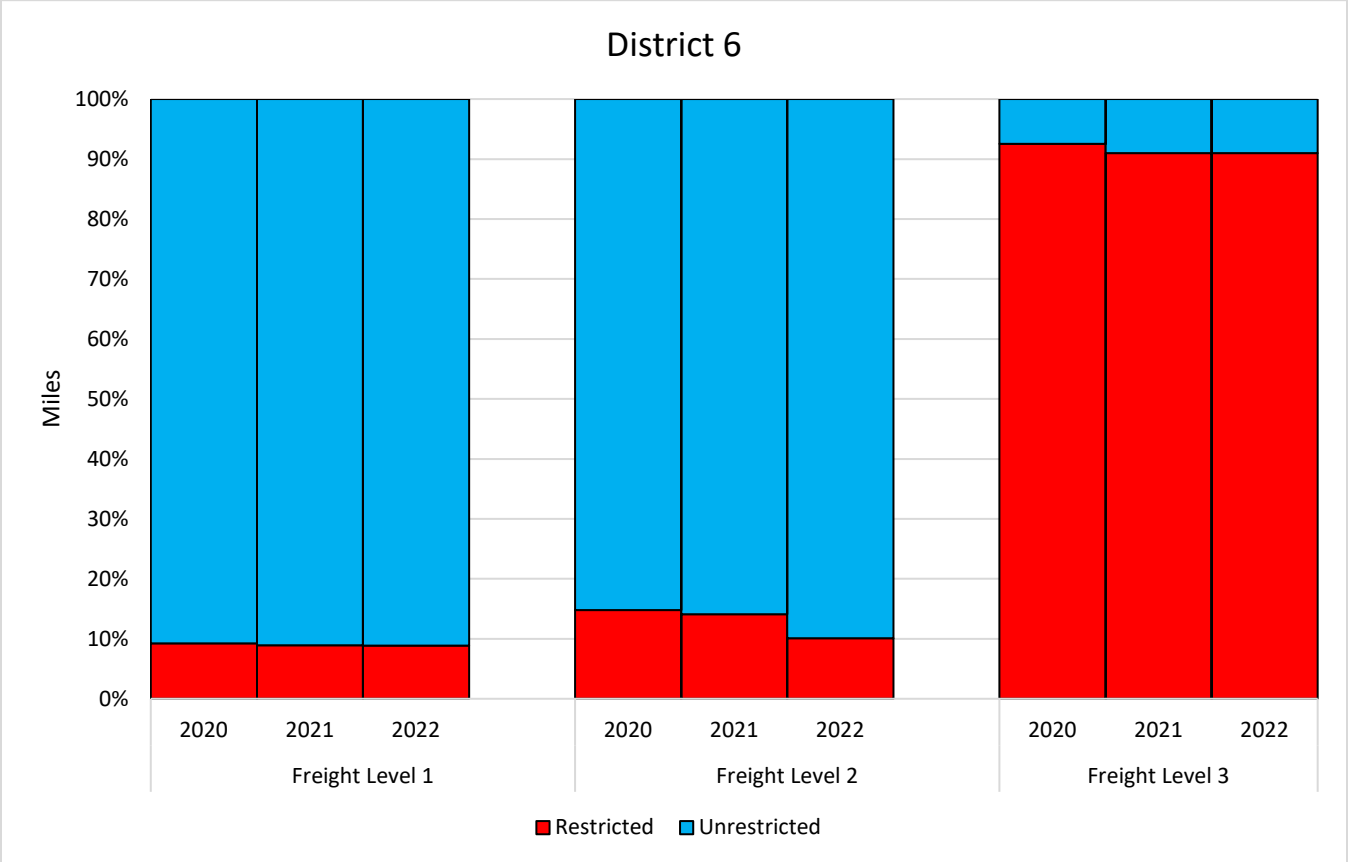
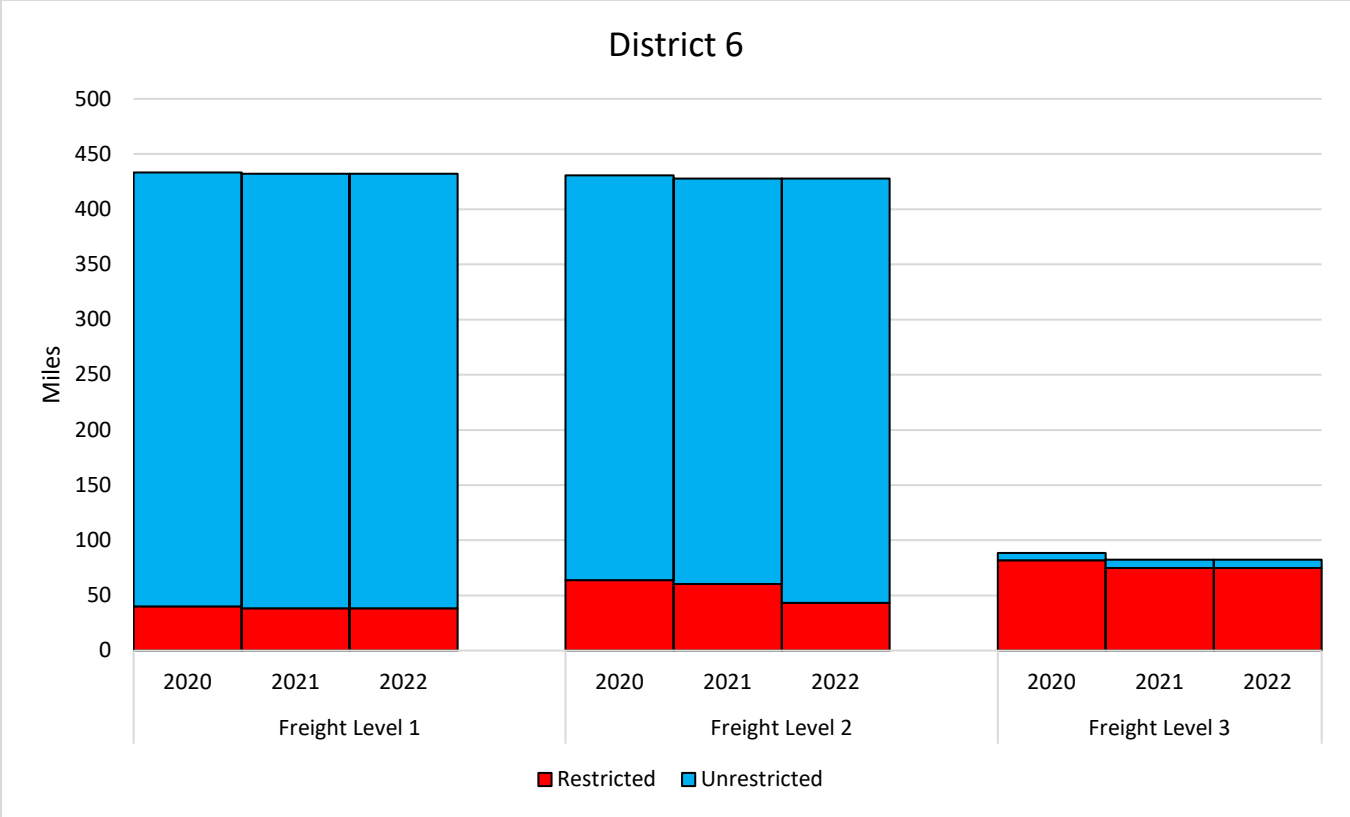


**— Restricted Roadways**

Restrictions Include:  
 Load Restriction  
 Capacity Restriction  
 Structure Height Restriction  
 Structure Width Restriction  
 Roadway Width Restriction



STATE OF  
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 FEDERAL HIGHWAY DEPARTMENT  
 March 2023



## Functional Capacity

2022	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	432.11	38.43	393.68	8.89%	91.11%
Freight Level 2	427.88	43.29	384.59	10.12%	89.88%
Freight Level 3	82.39	74.96	7.43	90.98%	9.02%

2021	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	432.11	38.44	393.67	8.90%	91.10%
Freight Level 2	427.88	60.27	367.63	14.09%	85.92%
Freight Level 3	82.39	74.96	7.43	90.98%	9.02%

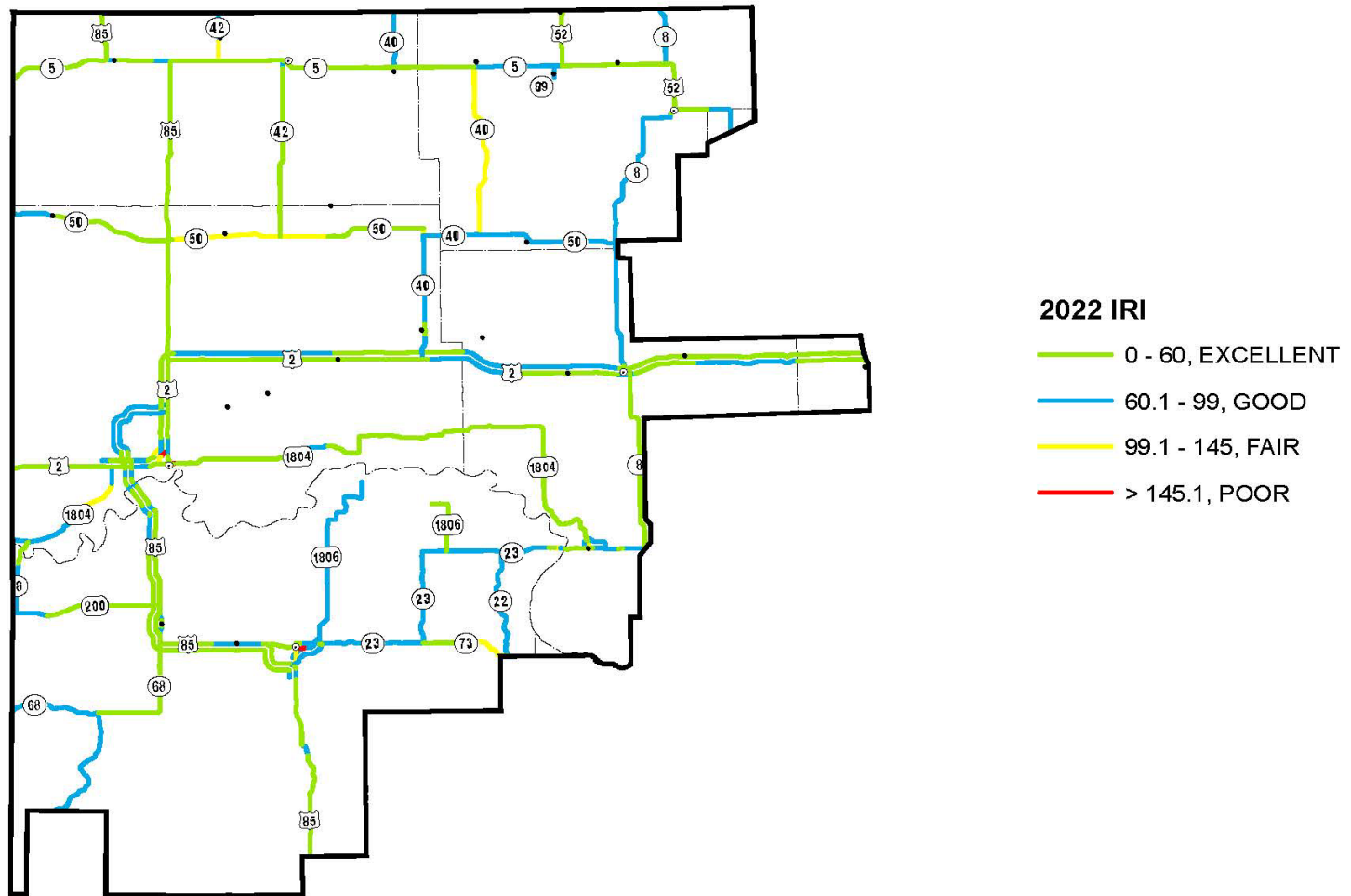
2020	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	433.2	40	393.2	9.23%	90.77%
Freight Level 2	430.6	63.8	366.8	14.82%	85.18%
Freight Level 3	88.5	81.9	6.6	92.54%	7.46%

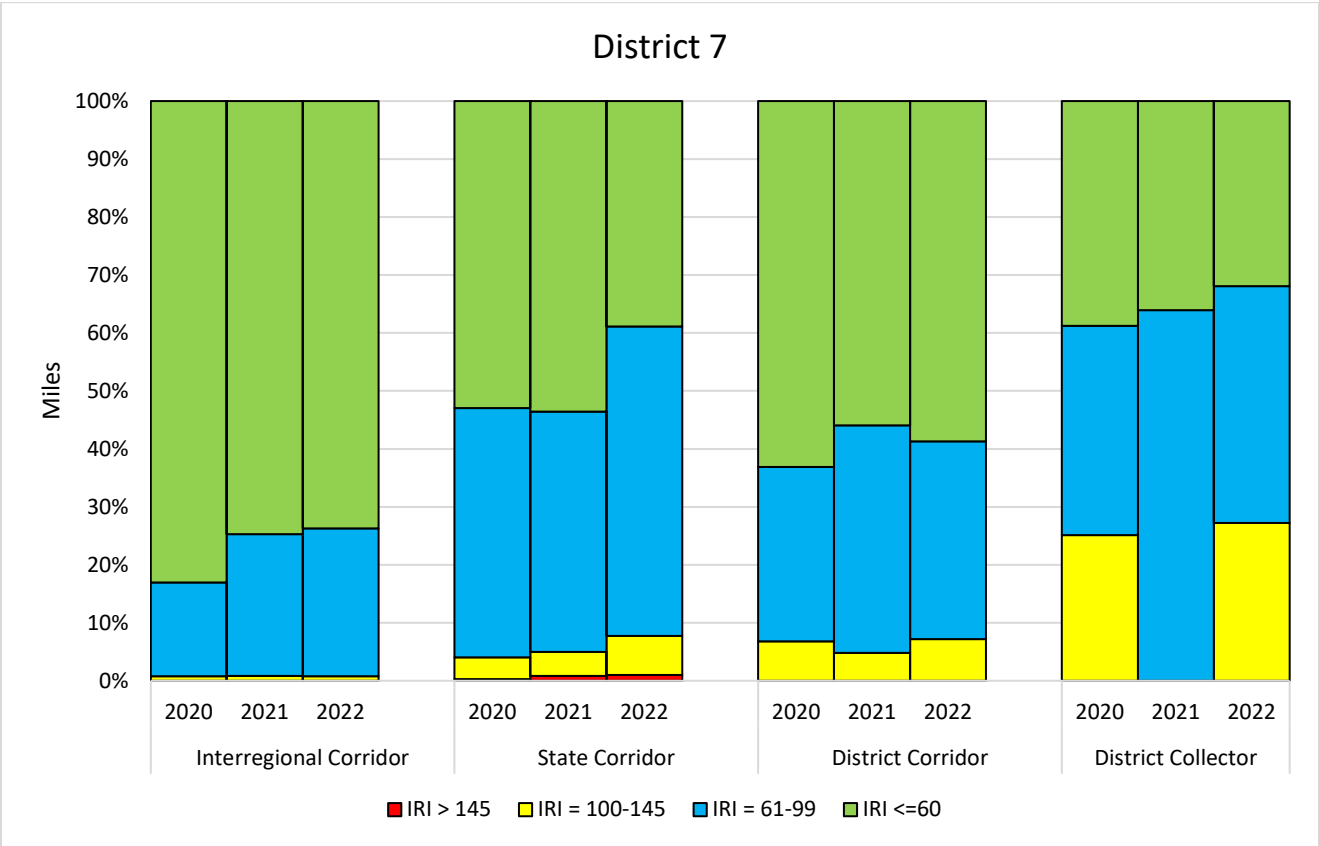
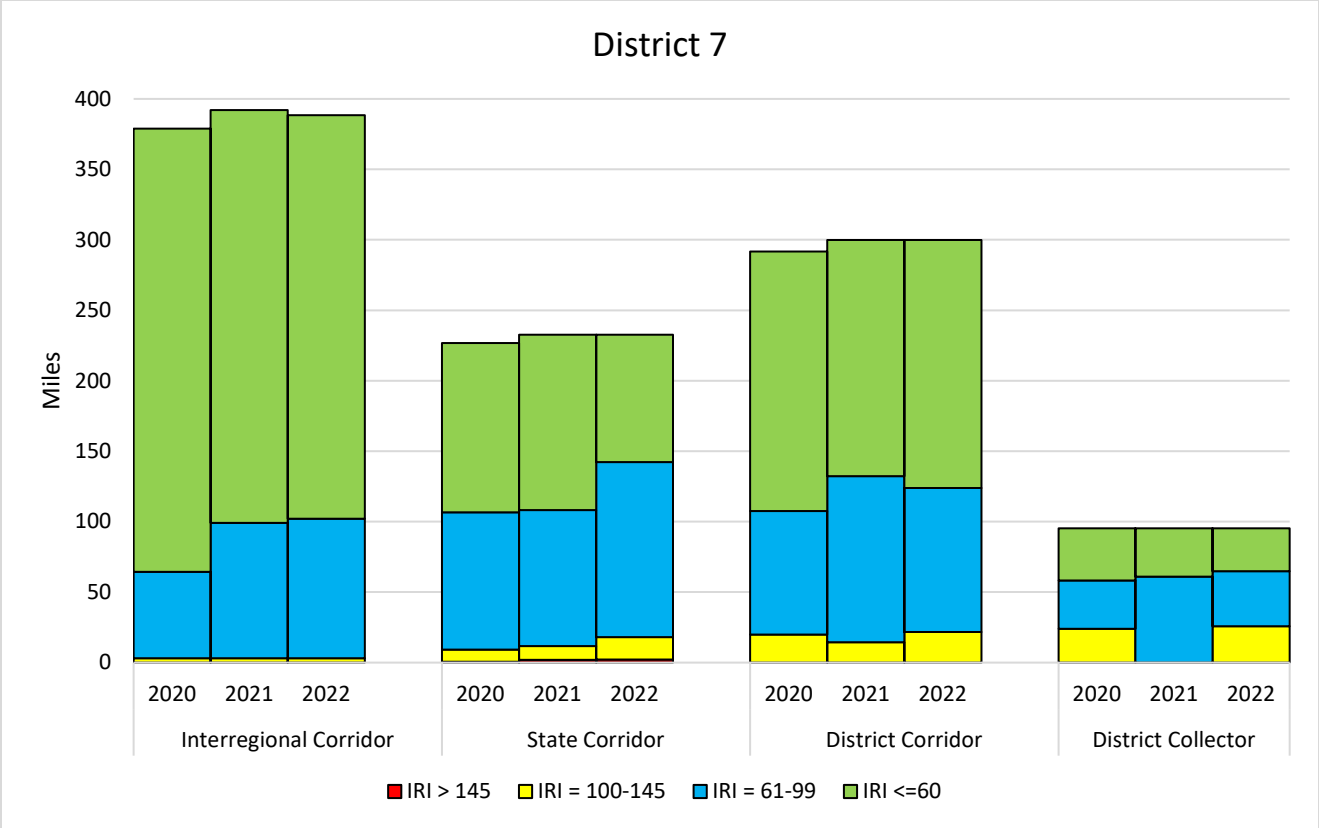


# DISTRICT 7

Williston, ND

# WILLISTON DISTRICT







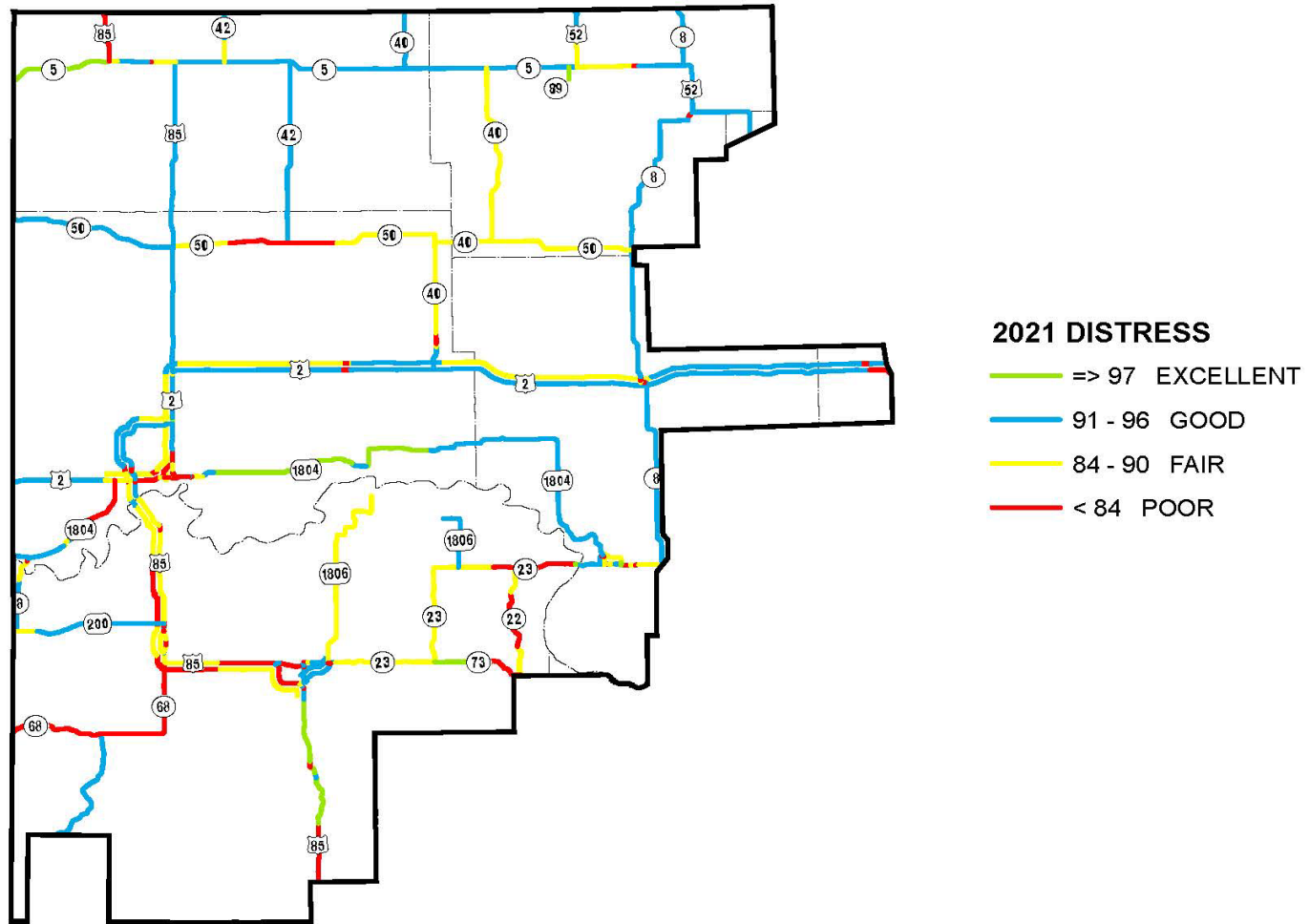
# IRI

2022	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	388.36	286.29	99.05	3.03	0	73.72%	25.50%	0.78%	0.00%
State Corridor	232.77	90.51	124.22	15.73	2.3	38.88%	53.37%	6.76%	0.99%
District Corridor	299.94	176	102.31	21.62	0	58.68%	34.11%	7.21%	0.00%
District Collector	95.23	30.41	38.9	25.92	0	31.93%	40.85%	27.22%	0.00%

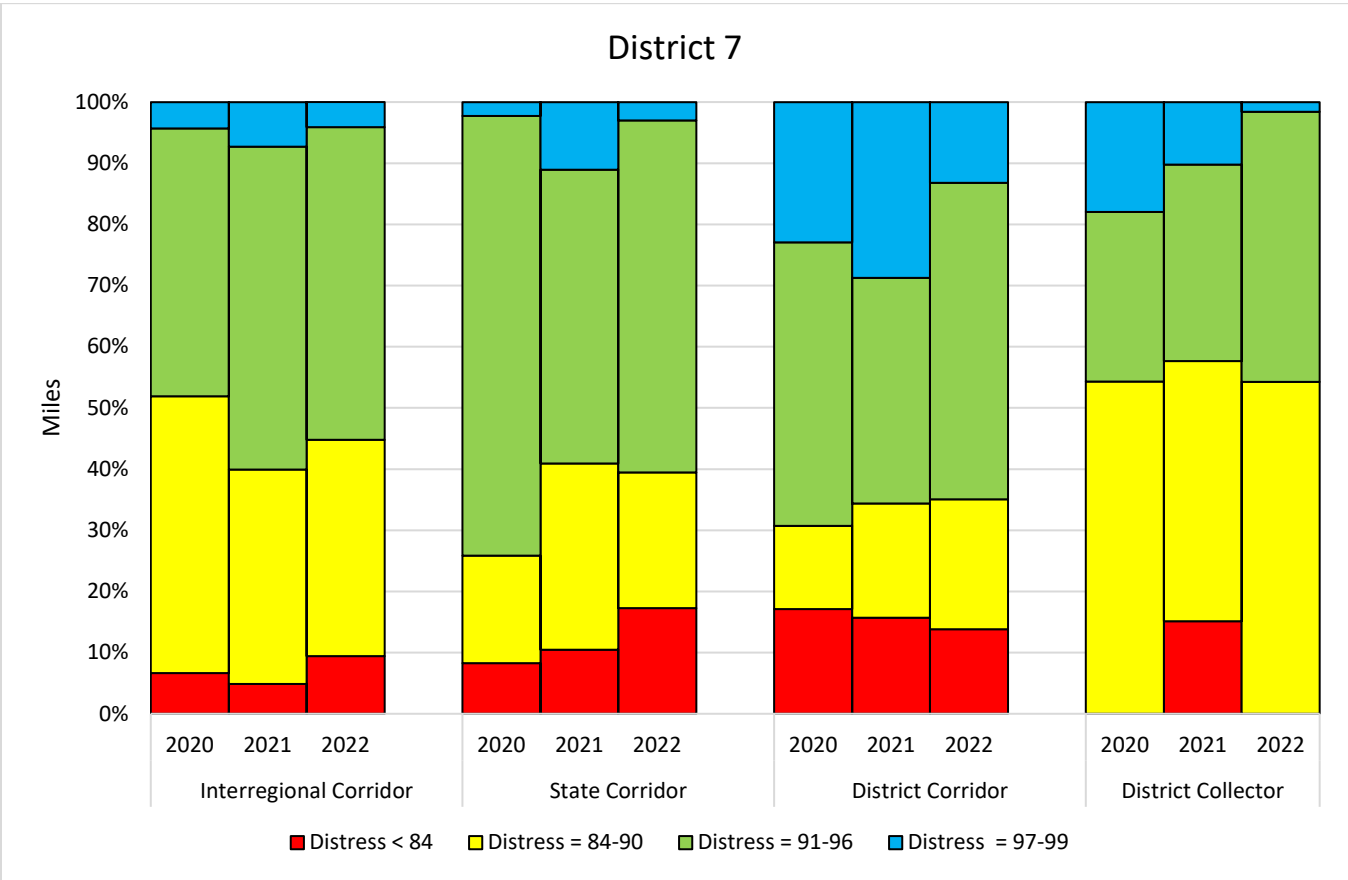
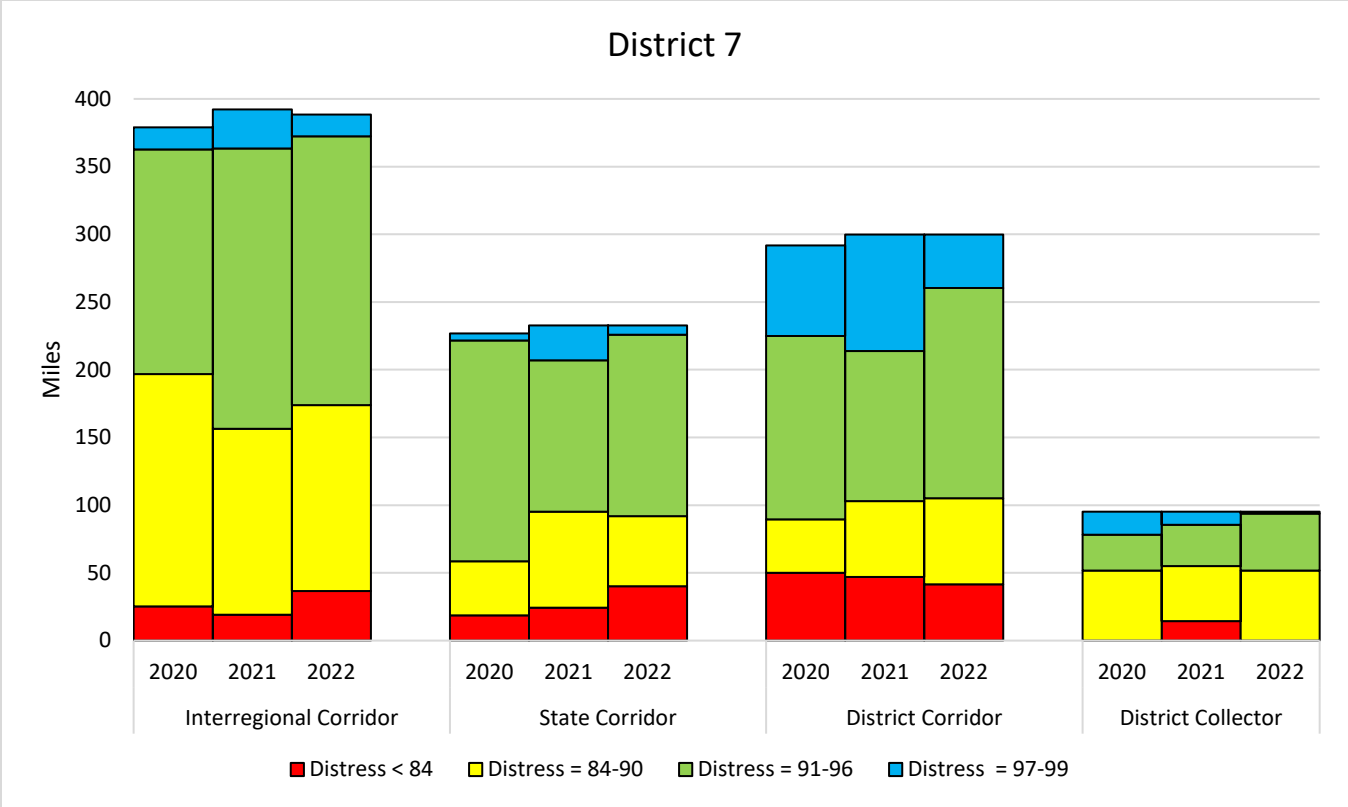
2021	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	392.11	0	3.2	95.97	292.94	0.00%	0.82%	24.48%	74.71%
State Corridor	232.77	1.97	9.67	96.5	124.63	0.85%	4.15%	41.46%	53.54%
District Corridor	299.94	0	14.45	117.76	167.73	0.00%	4.82%	39.26%	55.92%
District Collector	95.23	0	0	60.9	34.33	0.00%	0.00%	63.95%	36.05%

2020	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	378.9	314.6	61.3	3	0	83.03%	16.18%	0.79%	0.00%
State Corridor	226.7	120	97.5	8.5	0.7	52.93%	43.01%	3.75%	0.31%
District Corridor	291.8	184.2	87.7	19.9	0	63.13%	30.05%	6.82%	0.00%
District Collector	95.2	36.9	34.4	23.9	0	38.76%	36.13%	25.11%	0.00%

# WILLISTON DISTRICT



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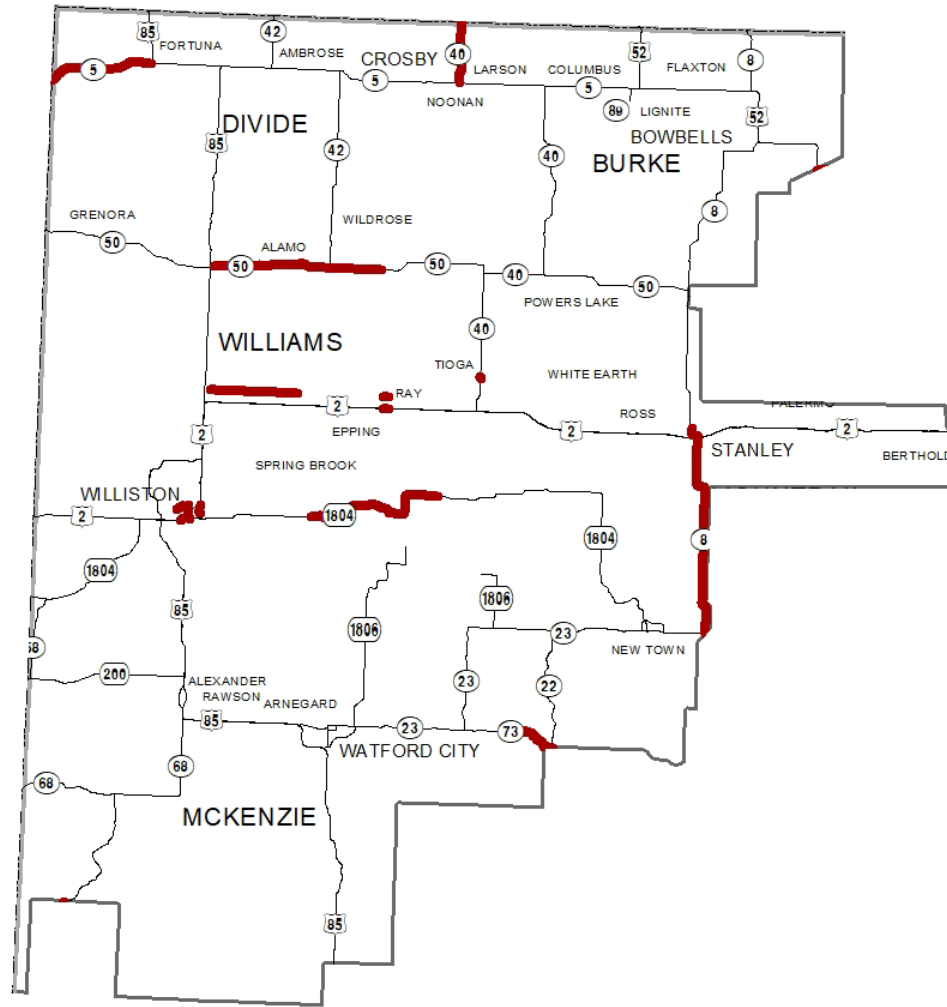
## Distress

2022	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	388.36	36.63	137.31	198.4	16.03	9.43%	35.36%	51.09%	4.13%
State Corridor	232.77	40.25	51.61	133.95	6.96	17.29%	22.17%	57.55%	2.99%
District Corridor	299.94	41.49	63.74	155.03	39.68	13.83%	21.25%	51.69%	13.23%
District Collector	95.23	0	51.68	42.04	1.51	0.00%	54.27%	44.15%	1.59%

2021	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	392.11	19.21	137.31	206.99	28.6	4.90%	35.02%	52.79%	7.29%
State Corridor	232.77	24.35	70.89	111.83	25.7	10.46%	30.45%	48.04%	11.04%
District Corridor	299.94	47.03	56.06	110.65	86.2	15.68%	18.69%	36.89%	28.74%
District Collector	95.23	14.42	40.51	30.58	9.72	15.14%	42.54%	32.11%	10.21%

2020	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%
Interregional Corridor	378.9	25.3	171.4	166	16.3	6.68%	45.22%	43.80%	4.30%
State Corridor	226.7	18.7	39.9	163	5.1	8.25%	17.60%	71.90%	2.25%
District Corridor	291.8	50	39.6	135.3	67	17.13%	13.57%	46.35%	22.95%
District Collector	95.2	0	51.7	26.4	17.1	0.00%	54.30%	27.73%	17.96%

**Williston District Functional Capacity Restricted Miles**



**Restricted Roadways**

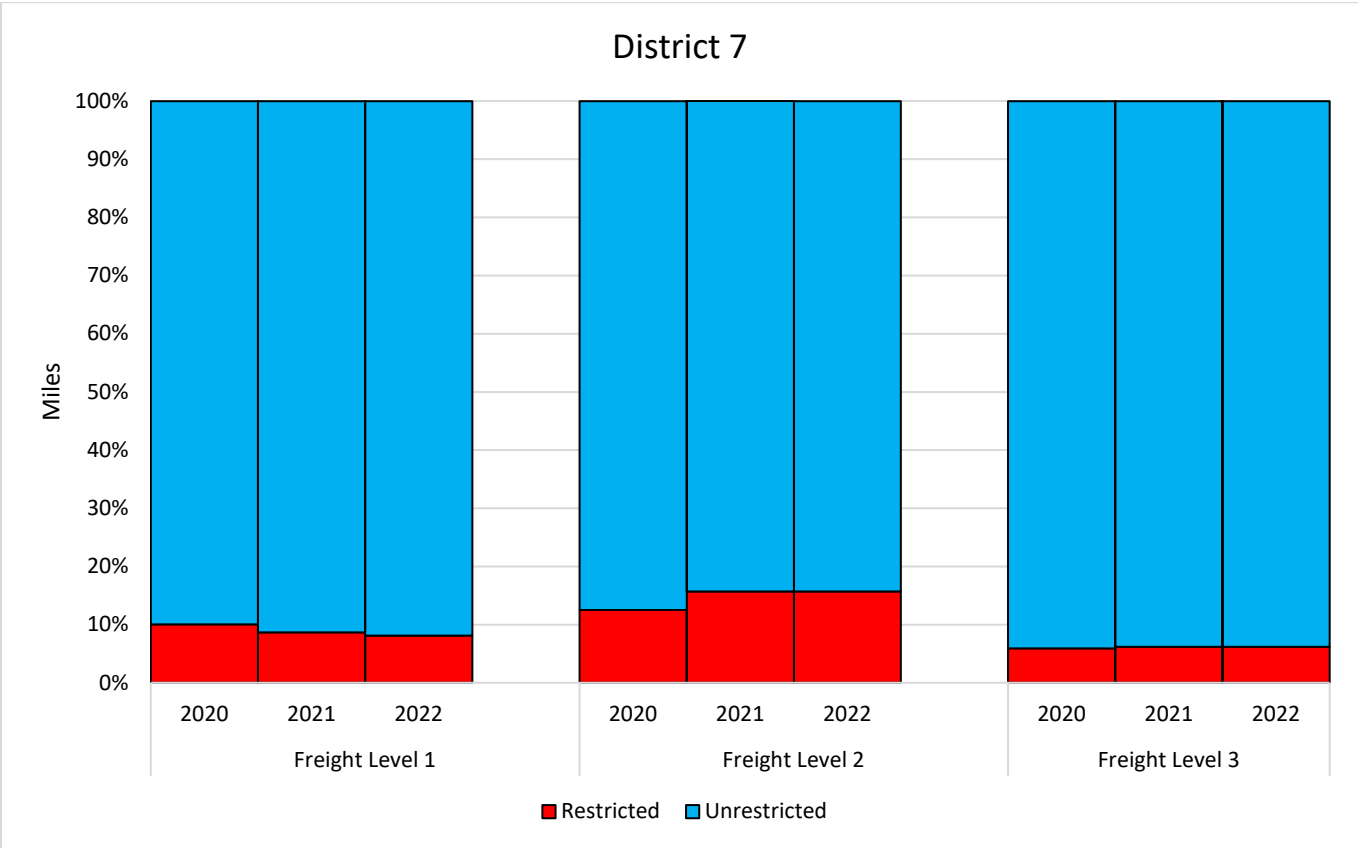
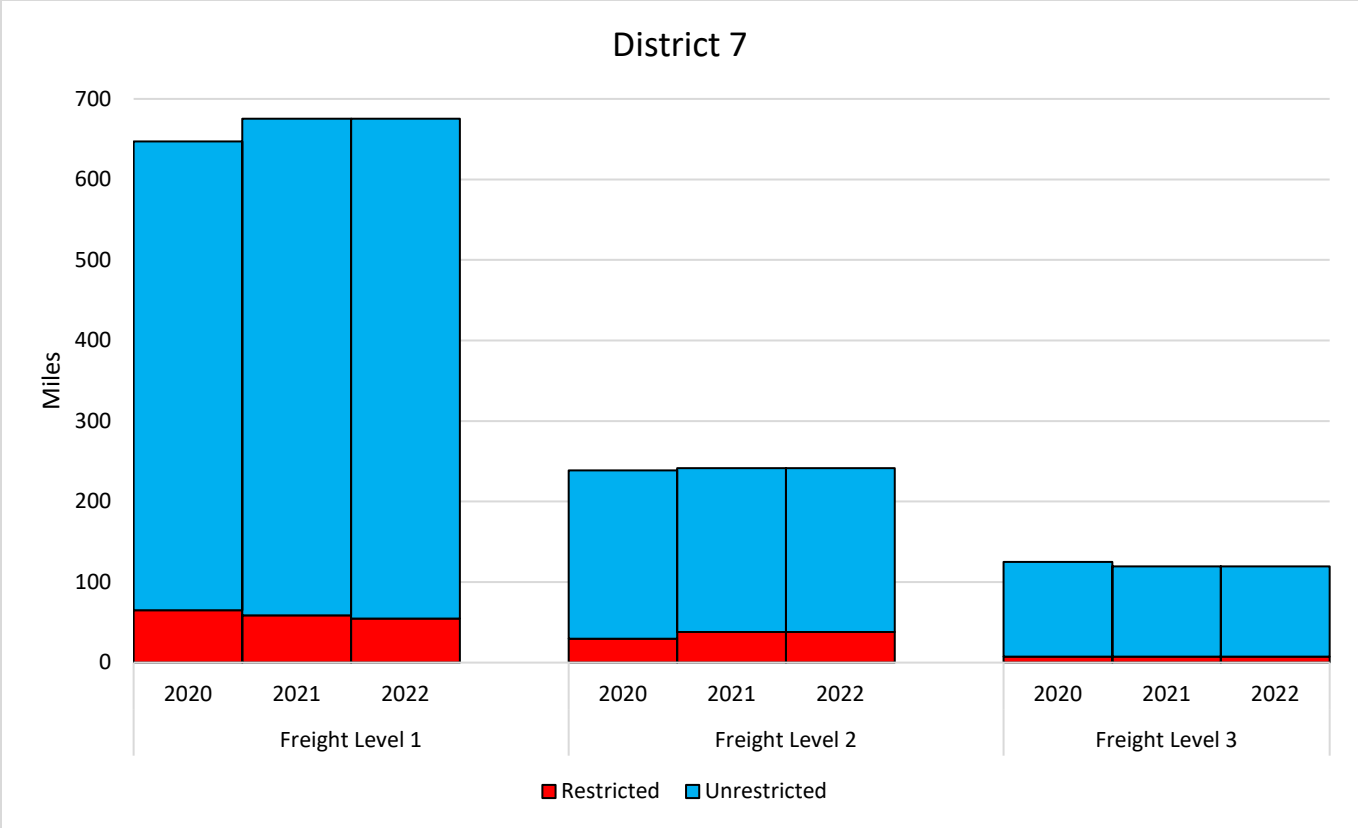
Restrictions Include:  
 Load Restriction  
 Capacity Restriction  
 Structure Height Restriction  
 Structure Width Restriction  
 Roadway Width Restriction



STATE OF  
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 FEDERAL HIGHWAY DEPARTMENT

March 2023



## Functional Capacity

2022	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	675.24	54.78	620.46	8.11%	91.89%
Freight Level 2	241.54	37.9	203.64	15.69%	84.31%
Freight Level 3	119.42	7.37	112.05	6.17%	93.83%

2021	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	675.24	58.54	616.7	8.67%	91.33%
Freight Level 2	241.54	37.91	203.64	15.70%	84.31%
Freight Level 3	119.42	7.37	112.05	6.17%	93.83%

2020	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	647.2	64.9	582.3	10.03%	89.97%
Freight Level 2	238.5	29.8	208.7	12.49%	87.51%
Freight Level 3	125.1	7.4	117.7	5.92%	94.08%

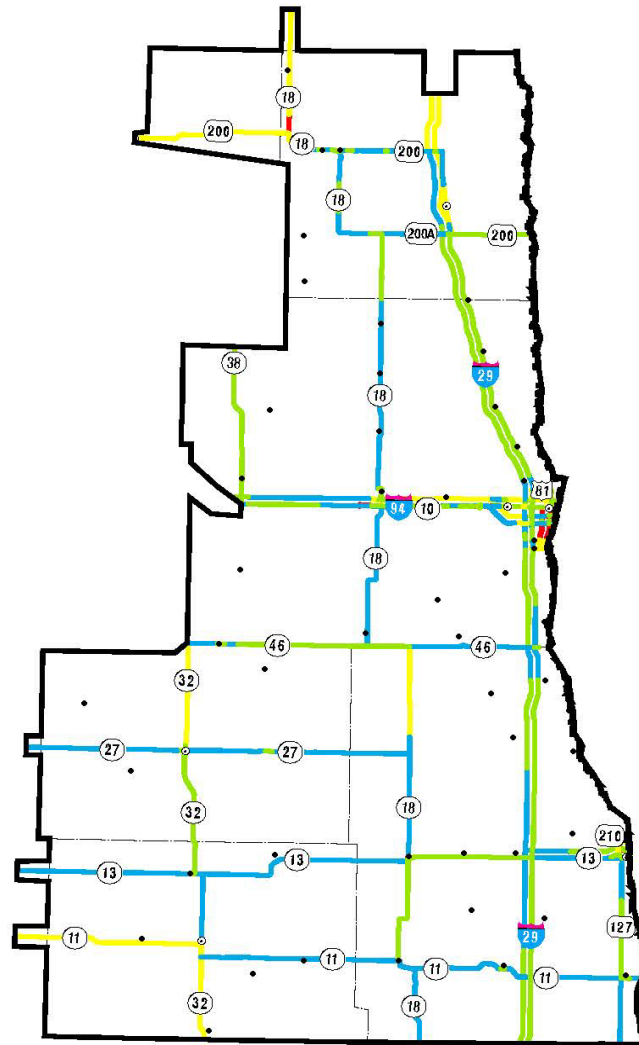


# DISTRICT 8

Fargo, ND

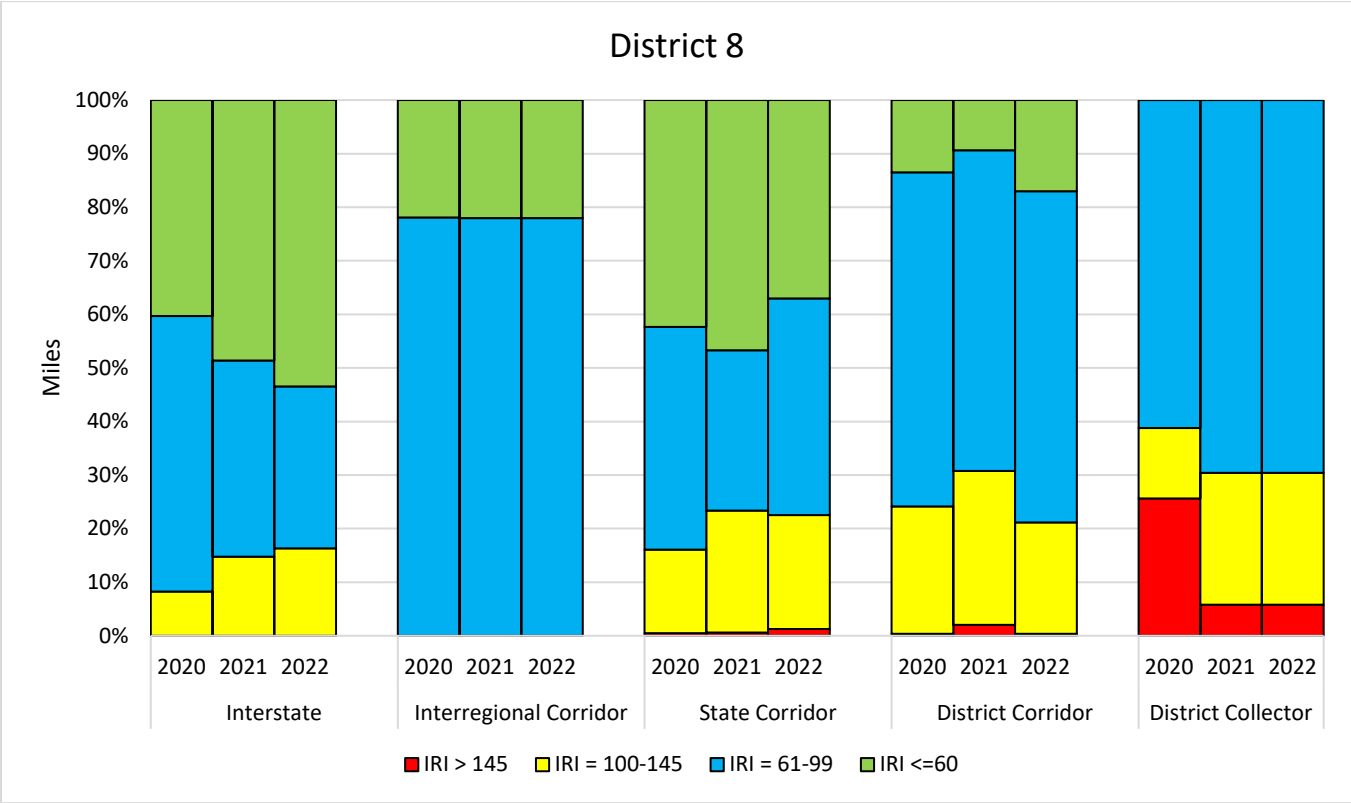
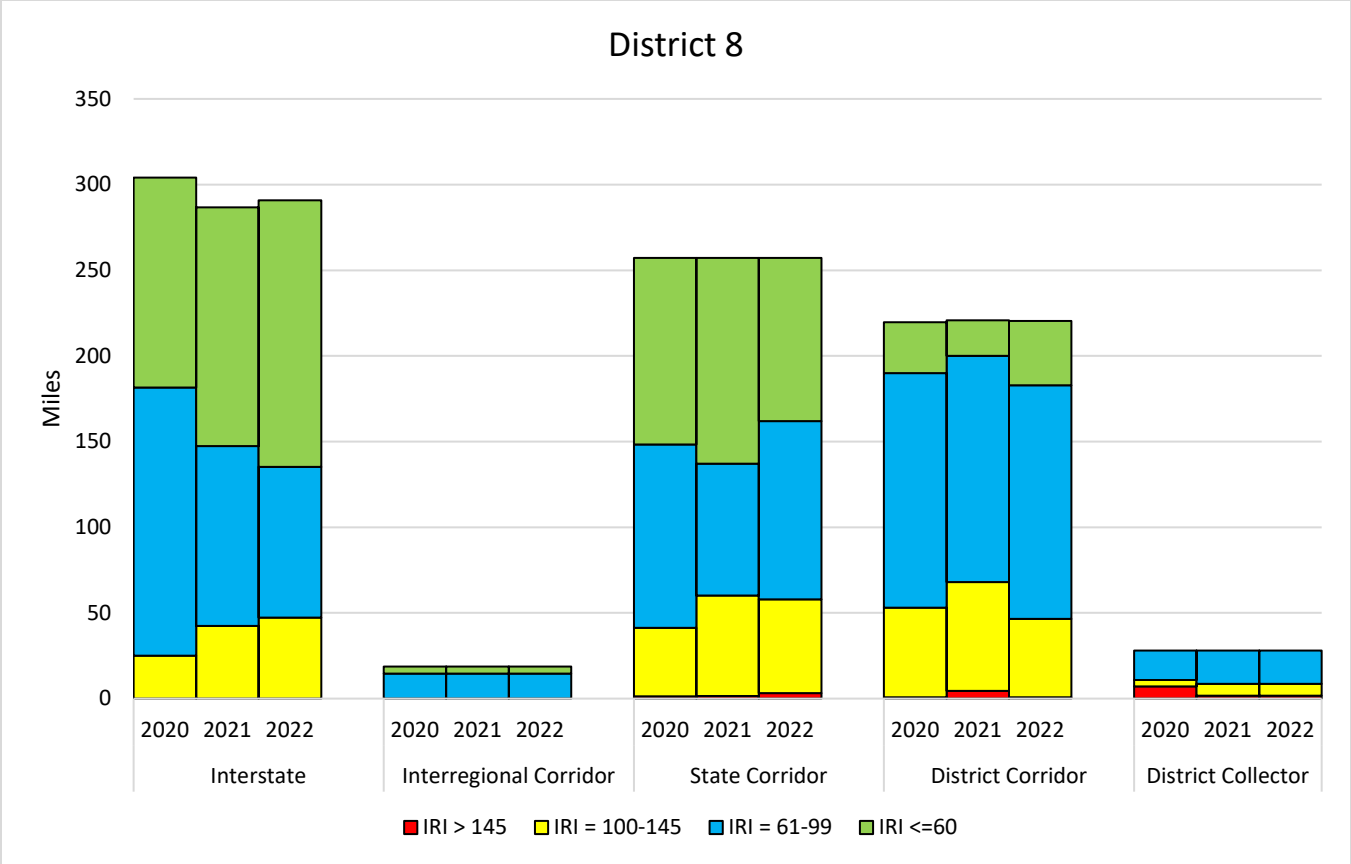


# FARGO DISTRICT



## 2022 IRI

- 0 - 60, EXCELLENT
- 60.1 - 99, GOOD
- 99.1 - 145, FAIR
- > 145.1, POOR



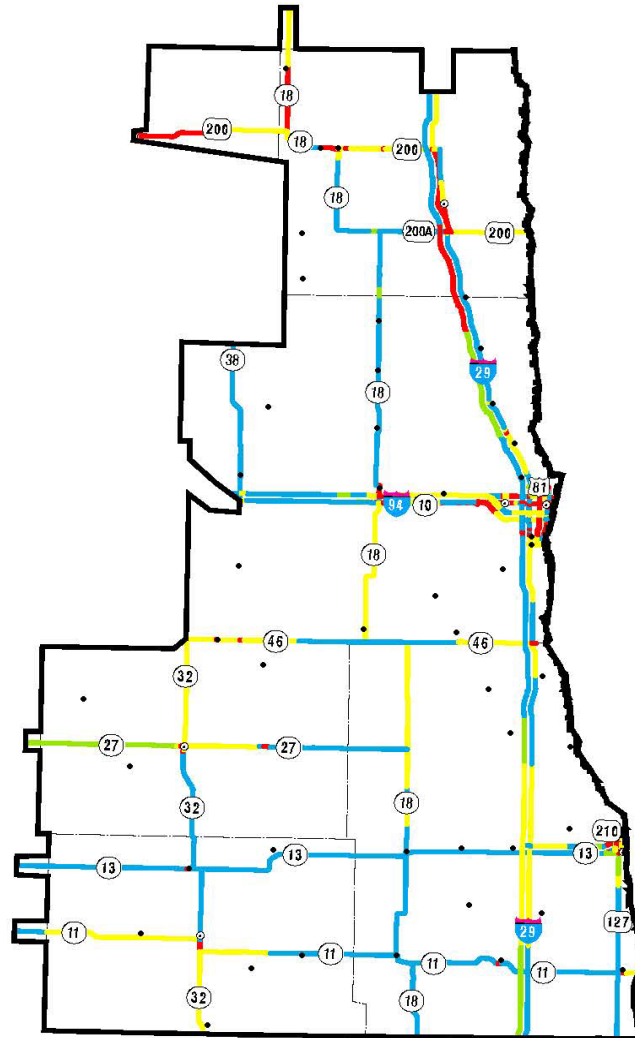
# IRI

2022	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	290.74	155.51	87.88	47.35	0	53.49%	30.23%	16.29%	0.00%
Interregional Corridor	18.75	4.13	14.62	0	0	22.03%	77.97%	0.00%	0.00%
State Corridor	257.22	95.25	104.08	54.69	3.21	37.03%	40.46%	21.26%	1.25%
District Corridor	220.33	37.44	136.29	45.81	0.8	16.99%	61.86%	20.79%	0.36%
District Collector	28.04	0	19.51	6.9	1.63	0.00%	69.58%	24.61%	5.81%

2021	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	286.75	0	42.38	105	139.37	0.00%	14.78%	36.62%	48.60%
Interregional Corridor	18.75	0	0	14.62	4.13	0.00%	0.00%	77.97%	22.03%
State Corridor	257.22	1.57	58.52	77	120.12	0.61%	22.75%	29.94%	46.70%
District Corridor	220.78	4.46	63.51	132.17	20.63	2.02%	28.77%	59.87%	9.34%
District Collector	28.04	1.63	6.9	19.51	0	5.81%	24.61%	69.58%	0.00%

2020	Total Miles	Excellent	Good	Fair	Poor	% Excellent	% Good	% Fair	% Poor
Interstate	304	122.5	156.4	25.1	0	40.30%	51.45%	8.26%	0.00%
Interregional Corridor	18.7	4.1	14.6	0	0	21.93%	78.07%	0.00%	0.00%
State Corridor	257.2	108.9	107	40	1.3	42.34%	41.60%	15.55%	0.51%
District Corridor	219.7	29.7	137	52.2	0.8	13.52%	62.36%	23.76%	0.36%
District Collector	28.1	0	17.2	3.7	7.2	0.00%	61.21%	13.17%	25.62%

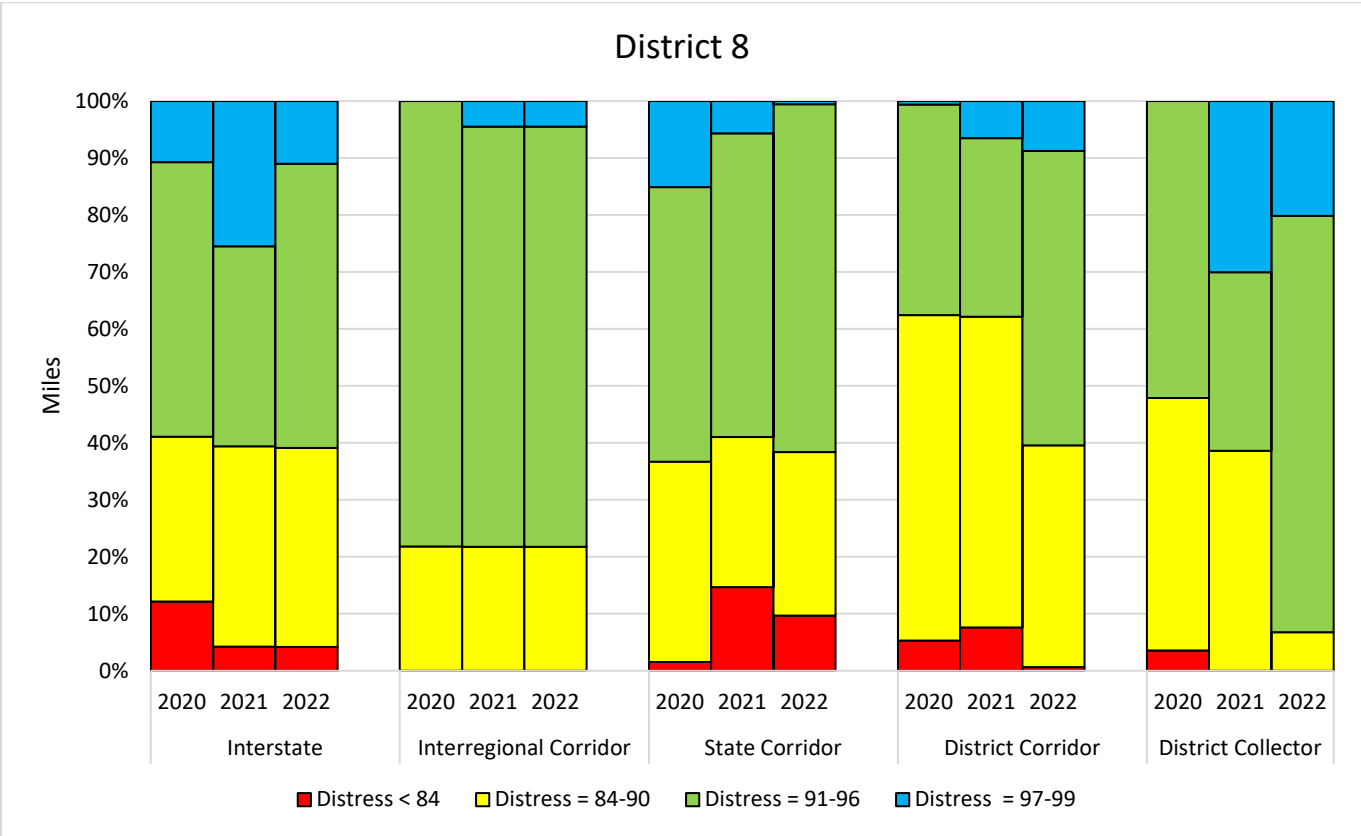
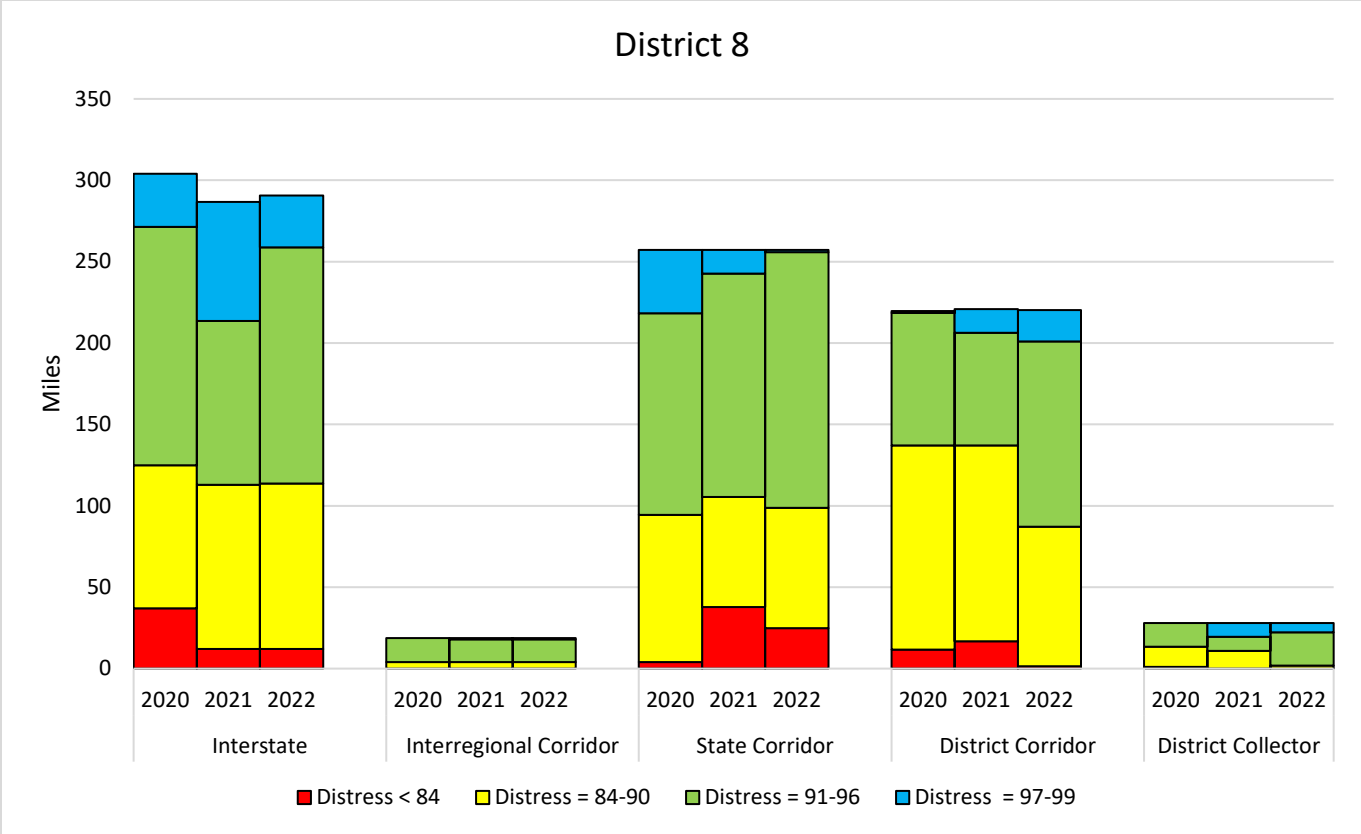
# FARGO DISTRICT



## 2021 DISTRESS

- => 97 EXCELLENT
- 91 - 96 GOOD
- 84 - 90 FAIR
- < 84 POOR

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## Distress

2022	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	290.74	12.1	101.69	144.95	32	4.16%	34.98%	49.86%	11.01%
Interregional Corridor	18.75	0	4.08	13.83	0.84	0.00%	21.76%	73.76%	4.48%
State Corridor	257.22	24.93	73.83	157.04	1.42	9.69%	28.70%	61.05%	0.55%
District Corridor	220.33	1.43	85.72	113.87	19.32	0.65%	38.91%	51.68%	8.77%
District Collector	28.04	0	1.89	20.5	5.65	0.00%	6.74%	73.11%	20.15%

2021	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	286.75	12.1	100.92	100.56	73.17	4.22%	35.19%	35.07%	25.52%
Interregional Corridor	18.75	0	4.08	13.83	0.84	0.00%	21.76%	73.76%	4.48%
State Corridor	257.22	37.84	67.65	137.14	14.59	14.71%	26.30%	53.32%	5.67%
District Corridor	220.78	16.84	120.33	69.21	14.4	7.63%	54.50%	31.35%	6.52%
District Collector	28.04	0	10.82	8.79	8.43	0.00%	38.59%	31.35%	30.06%

2020	Total Miles	Poor	Fair	Good	Excellent	% Poor	% Fair	% Good	% Excellent
Interstate	304	37	87.9	146.5	32.6	12.17%	28.91%	48.19%	10.72%
Interregional Corridor	18.7	0	4.1	14.7	0	0.00%	21.81%	78.19%	0.00%
State Corridor	257.2	4	90.4	123.9	38.9	1.56%	35.15%	48.17%	15.12%
District Corridor	219.7	11.6	125.6	81.2	1.3	5.28%	57.17%	36.96%	0.59%
District Collector	28.1	1	12.4	14.6	0	3.57%	44.29%	52.14%	0.00%

**Fargo District Functional Capacity Restricted Miles**

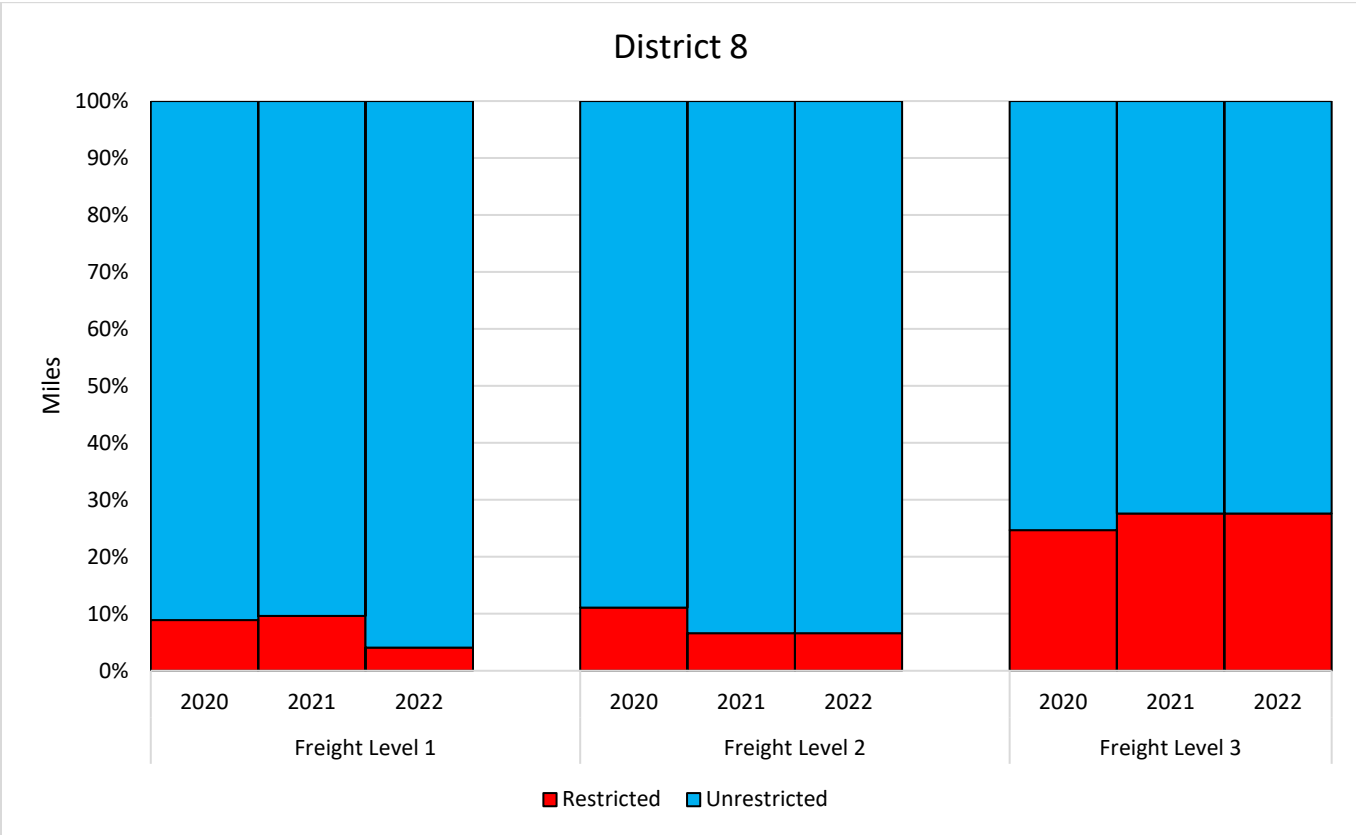
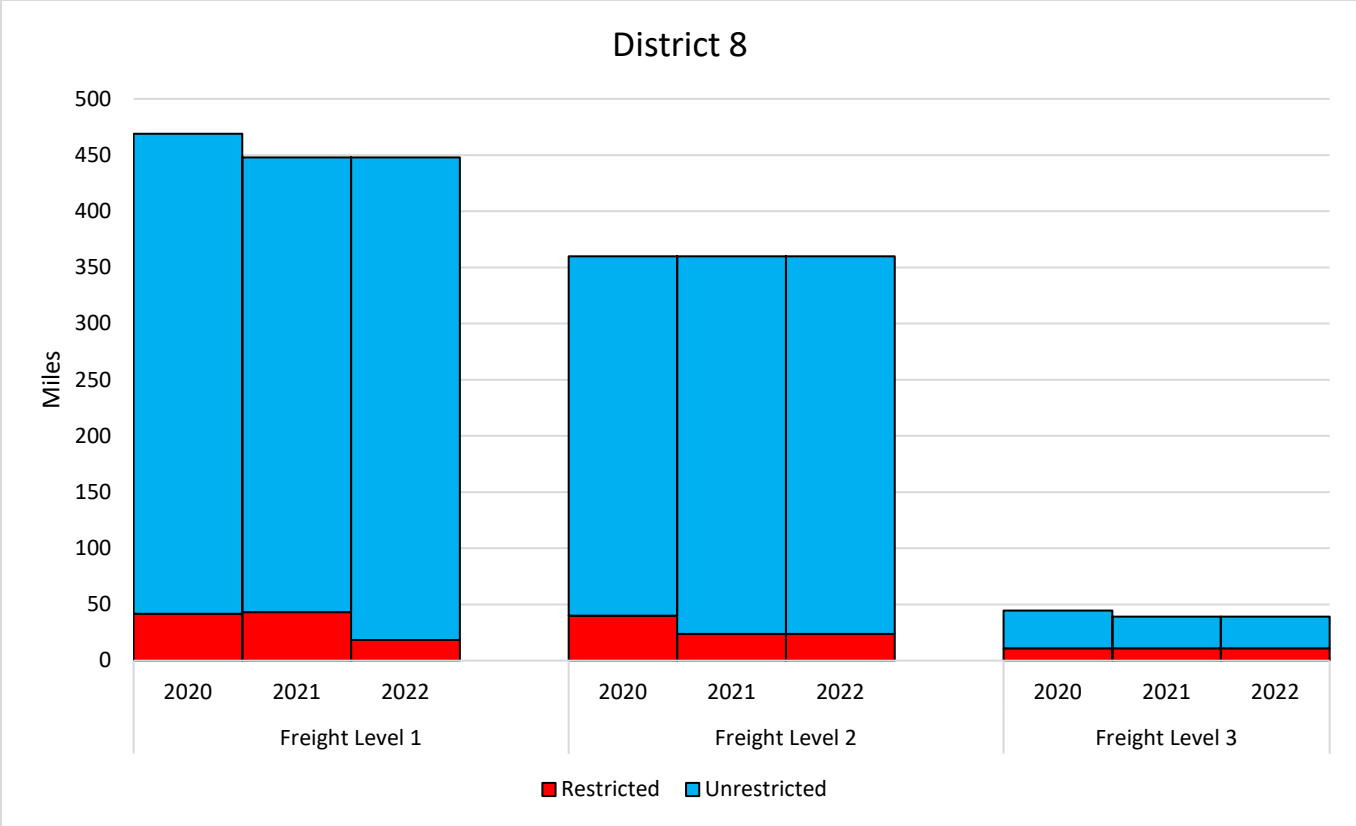


— Restricted Roadways

Restrictions Include:  
 Load Restriction  
 Capacity Restriction  
 Structure Height Restriction  
 Structure Width Restriction  
 Roadway Width Restriction



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 March 2023





## Functional Capacity

2022	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	448.01	18.31	429.7	4.09%	95.91%
Freight Level 2	359.74	23.77	335.97	6.61%	93.39%
Freight Level 3	39.14	10.81	28.33	27.62%	72.38%

2021	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	448.01	43.25	404.76	9.65%	90.35%
Freight Level 2	359.74	23.77	335.97	6.61%	93.39%
Freight Level 3	39.14	10.81	28.33	27.62%	72.38%

2020	Total Miles	Restricted	Unrestricted	% Restricted	% Unrestricted
Freight Level 1	469.1	41.8	427.3	8.91%	91.09%
Freight Level 2	360	40	320	11.11%	88.89%
Freight Level 3	44.6	11	33.6	24.66%	75.34%