

# Meeker County 5-Year Highway Construction Plan

07/16/24 County Board Meeting



# PAVEMENT CONDITON RATINGS

- Ride Quality Index (RQI)
  - How the Road Feels
  - 0.0 – 5.0 Rating Scale
- Surface Rating (SR)
  - How the Road Looks
  - 0.0-4.0 Rating Scale
- Pavement Quality Index (PQI)
  - Combination of RQI & SR
  - 0.0 – 4.5 Rating Scale

# PAVEMENT RATING SOURCE

- MnDOT collects pavement condition data on our CSAH system every 2 years
- Condition data is obtained using a series of lasers, sensors, and cameras

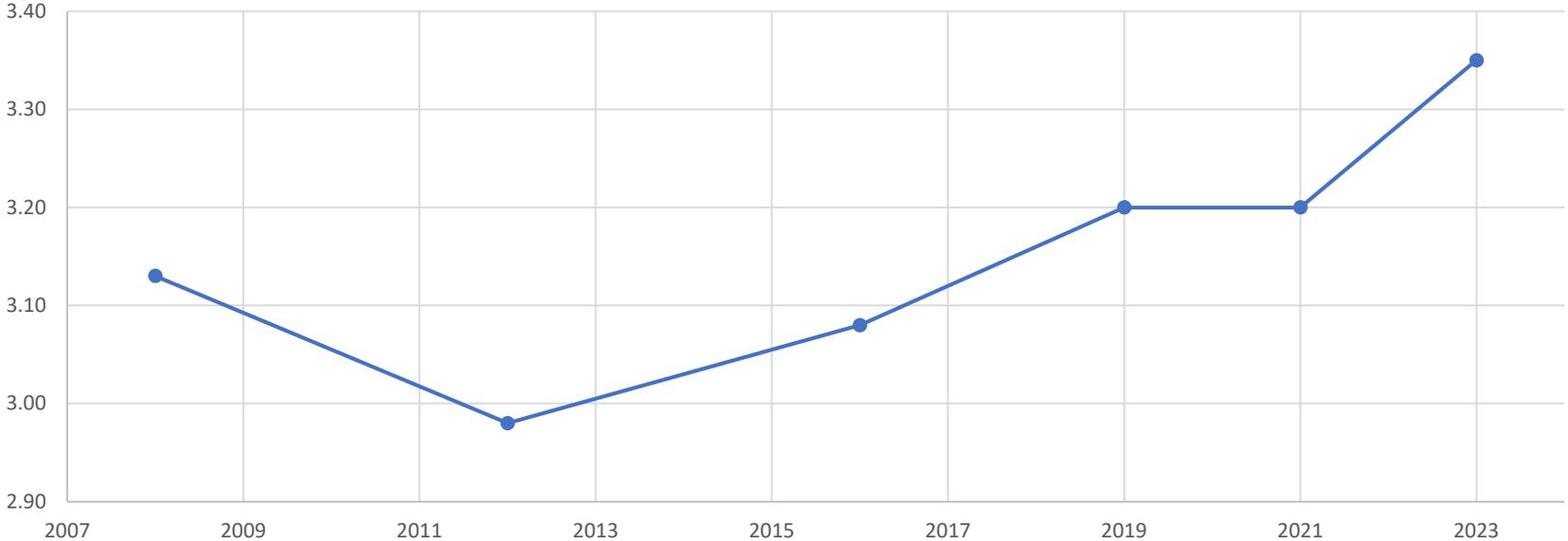


# RIDE QUALITY

## 2023 Data

- 9% Very Good (22 Miles)
- 66% Good (166 Miles)
- 25% Fair ( 64 Miles)
- 0% Poor (2 Miles)
- 0% Very Poor ( 0 Miles)

System Ride Quality Trend



<b>Very Good</b> 4.1 - 5.0
<b>Good</b> 3.1 - 4.0
<b>Fair</b> 2.1 - 3.0
<b>Poor</b> 1.1 - 2.0
<b>Very Poor</b> 0.0 - 1.0



# SURFACE RATING

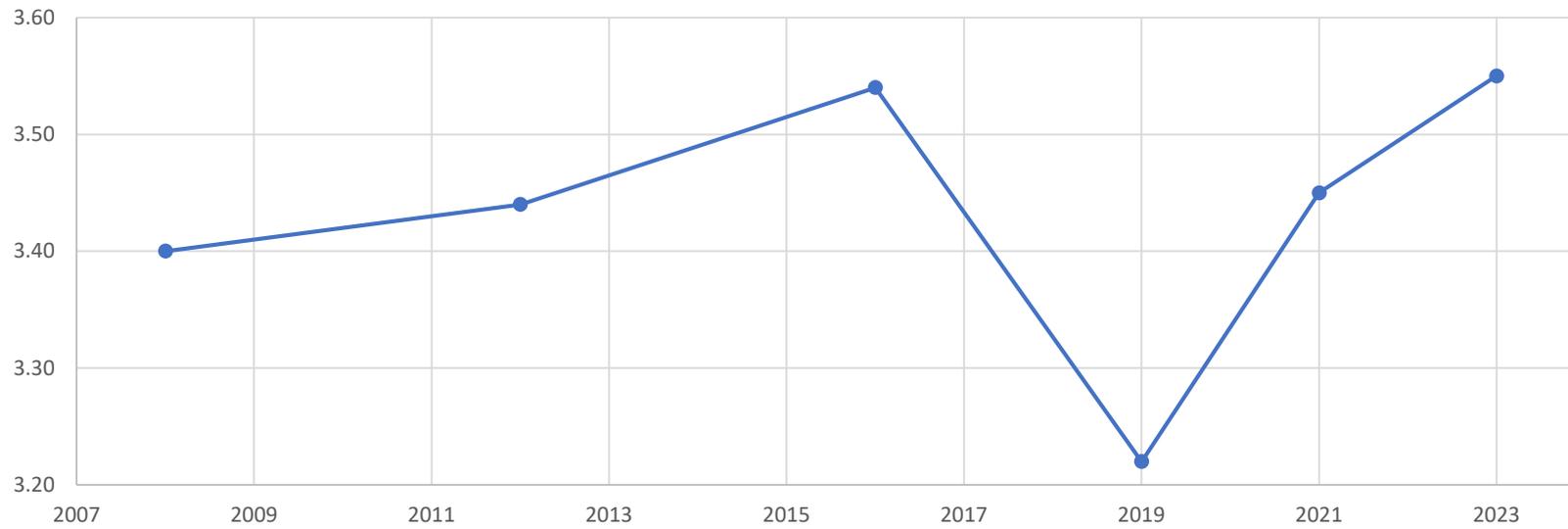
## 2023 Data

84% Good (214 Miles)

7% Fair ( 17 Miles)

9% Poor (22 Miles)

System Surface Rating Trend



<b>Good</b> 3.1 - 4.0
<b>Fair</b> 2.8 - 3.0
<b>Poor</b> 0.0 - 2.7

# PAVEMENT QUALITY

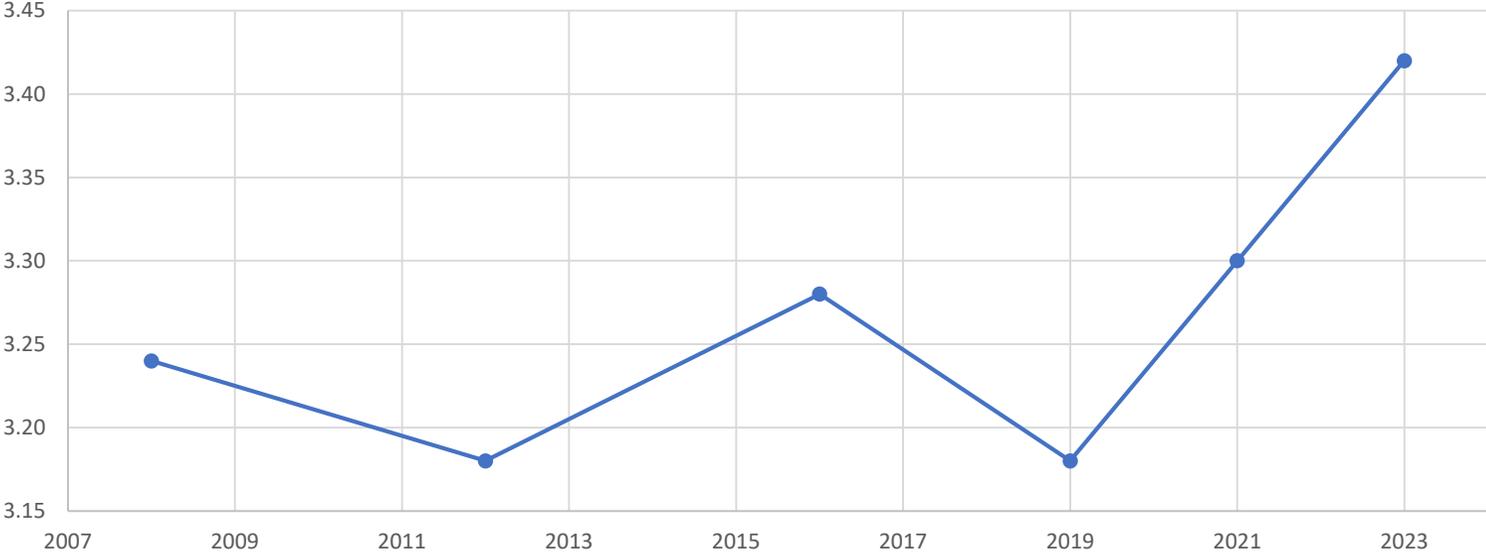
## 2023 Data

82% Good (208 Miles)

10% Fair ( 27 Miles)

8% Poor (19 Miles)

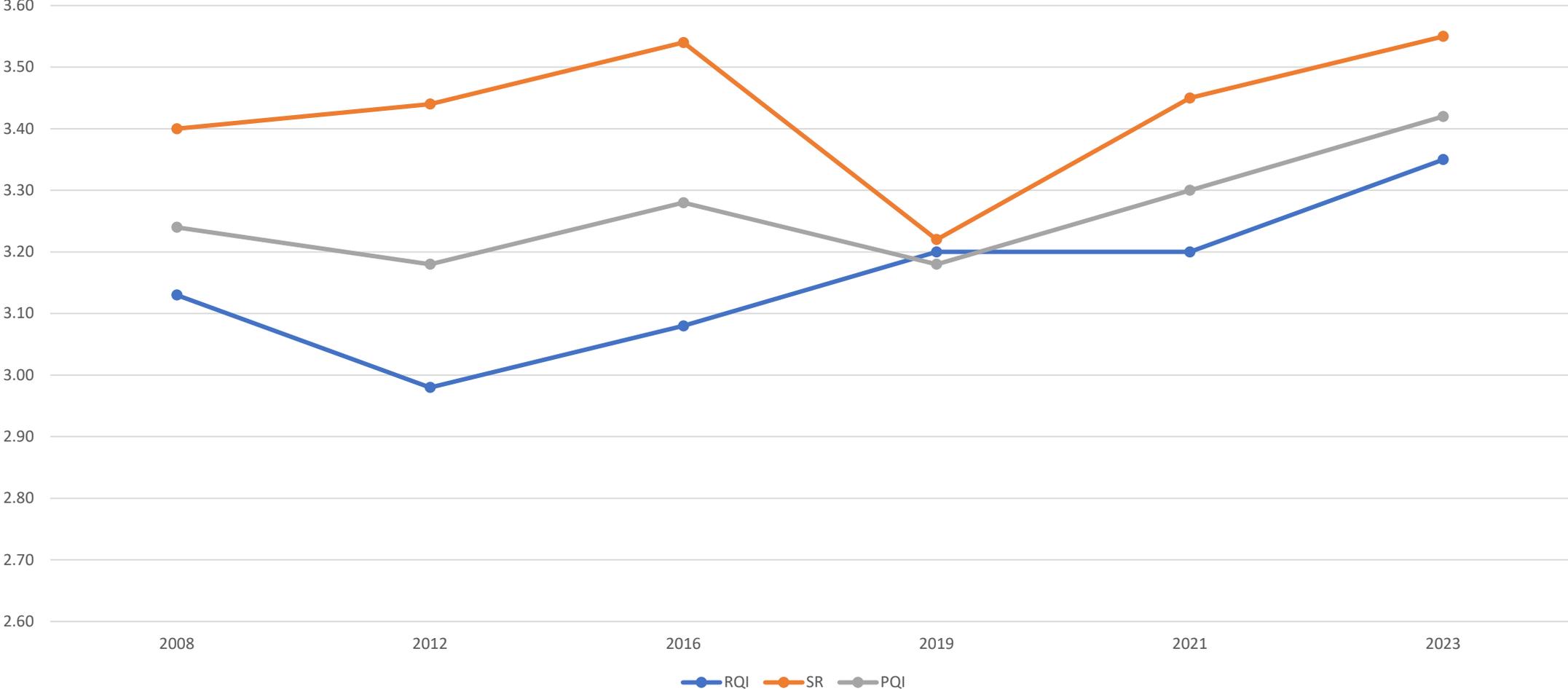
System Pavement Quality Trend



<b>Good</b> 3.1 - 4.5
<b>Fair</b> 2.8 - 3.0
<b>Poor</b> 0.0 - 2.7



# MEEKER COUNTY AVERAGE PAVEMENT CONDITION



# APPROXIMATE COSTS OF COMMON PAVEMENT PROJECT TYPES

1.5" Bituminous Overlay	\$175,000 Per Mile
1.5" Bituminous Overlay w/ Level & Lane Widen	\$230,000 Per Mile
Reclaim & Bituminous Paving	\$ 400,000 Per Mile
Concrete Overlay	\$ 600,000 Per Mile
Shoulder Widening & Paving Full Reconstruction	\$ 1,300,000 Per Mile

# TYPICAL CONSTRUCTION FUNDING

County State Aid Highway (CSAH Gas Tax)	\$3,250,000 in 2024
Federal Local Road Program	Competitive Application
State Bridge Bonds	Waiting List for Eligible Projects
Local Road Improvement Program (LRIP)	Competitive Application
Highway Safety Improvement Program (HSIP)	Competitive Application
County Levy Funds	\$0
Local Option Taxes	\$0





2025 CONSTRUCTION PLAN												
ROAD	LOCATION & DESCRIPTION				FUNDING SOURCES							
					State Aid Regular Account	State Aid Municipal Account	TWP/City/ Other Funds	State Park Road Funds	Federal Funds	Town Bridge Account	Bridge Bonding Grant	Total Project Cost
CSAH 3	Reclaim & Pave				\$1,400,000				\$2,640,000			\$4,040,000
	Tri Cnty Road - TH 22		10.8 Miles									
CSAH 12	Reclaim & Pave				\$1,850,000							\$1,850,000
	CSAH 1 - McLeod County		5.0 Miles									
CSAH 34	Replace BR 7230				\$300,000				\$400,000		\$450,000	\$1,150,000
250, 620	Overlay & Gravel Road Paving						\$294,505					\$294,505
	Litchfield Township											
<b>2025 FUNDING SUMMARY</b>					<b>\$3,550,000</b>	<b>\$0</b>	<b>\$294,505</b>	<b>\$0</b>	<b>\$3,040,000</b>	<b>\$0</b>	<b>\$450,000</b>	<b>\$7,334,505</b>



2026 CONSTRUCTION PLAN												
ROAD	LOCATION & DESCRIPTION			FUNDING SOURCES								
				State Aid Regular Account	State Aid Municipal Account	TWP/City/ Other Funds	State Park Road Funds	Federal Funds	Town Bridge Account	Bridge Bonding Grant	Total Project Cost	
120th Street	Replace BR 90959 Cosmos Township					\$10,000				\$290,000		\$300,000
CSAH 20	Pavement Resurfacing 1.3 M East of Kandl - TH 4 3.7 Miles			\$1,400,000								\$1,400,000
CSAH 14	Notch-Widen & Blade Level/Overlay 7.4 Miles			\$1,700,000								\$1,700,000
County-Wide	HSIP 6" Edgeline			\$13,100					\$117,900			\$131,000
CSAH 30	Replace BR 47526								\$1,400,000			\$1,400,000
CSAH 21	Replace BR 92554			\$170,000							\$130,000	\$300,000
<b>2026 FUNDING SUMMARY</b>				<b>\$3,283,100</b>	<b>\$0</b>	<b>\$10,000</b>	<b>\$0</b>	<b>\$1,517,900</b>	<b>\$290,000</b>	<b>\$130,000</b>	<b>\$5,231,000</b>	



2027 CONSTRUCTION PLAN												
ROAD	LOCATION & DESCRIPTION				FUNDING SOURCES							
					State Aid Regular Account	State Aid Municipal Account	TWP/City/ Other Funds	State Park Road Funds	Federal Funds	Town Bridge Account	Bridge Bonding Grant	Total Project Cost
565th Ave	Replace BR 47514 Cedar Mills Township						\$10,000			\$490,000		\$500,000
CSAH 19	Re-Surfacing CSAH 27 - 0.15 Mi North 0.15 Miles					\$100,000						\$100,000
CSAH 27	Re-Surfacing Within City Limits 0.5 Miles					\$300,000						\$300,000
CSAH 42	Re-Surfacing CSAH 11 - TH 24 0.8 Miles				\$500,000							\$500,000
CSAH 16	Notch/Widen & Overlay Kandyohi County - TH 4 4.0 Miles				\$900,000							\$900,000
CSAH 16	Reclaim & Pave TH 4 - TH 22 6.5 Miles				\$2,600,000							\$2,600,000
County-Wide	HSIP GIWR Edgeline				\$36,000				\$324,000			\$360,000
CSAH 26	Replace Br 47504				\$500,000					\$400,000		\$900,000
<b>2027 FUNDING SUMMARY</b>					<b>\$4,536,000</b>	<b>\$400,000</b>	<b>\$10,000</b>	<b>\$0</b>	<b>\$324,000</b>	<b>\$490,000</b>	<b>\$400,000</b>	<b>\$6,160,000</b>



2028 CONSTRUCTION PLAN											
ROAD	LOCATION & DESCRIPTION			FUNDING SOURCES							Total Project Cost
				State Aid Regular Account	State Aid Municipal Account	TWP/City/ Other Funds	State Park Road Funds	Federal Funds	Town Bridge Account	Bridge Bonding Grant	
CSAH 31	Notch-Widen & Blade Level/Overlay CSAH 11 - CSAH 16		5.0 Miles	\$1,150,000							\$1,150,000
CSAH 26	Re-Surfacing City of Cedar Mills		0.25 Miles		\$300,000						\$300,000
CSAH 26	Reclaim & Pave CSAH 12 - Cedar Mills		3.3 Miles	\$1,400,000							\$1,400,000
CSAH 24	Reclaim & Pave TH 15 - CSAH 4		1.0 Miles	\$450,000							
County-Wide	HSIP 6" Edgeline			\$13,700				\$123,300			\$137,000
TH 4 - MnDOT	Bridge Replacement 2.6 Mi N of South County Line					\$1,500,000					\$1,500,000
<b>2028 FUNDING SUMMARY</b>				<b>\$3,013,700</b>	<b>\$300,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$123,300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,987,000</b>



# 2029 CONSTRUCTION PLAN

ROAD	LOCATION & DESCRIPTION	FUNDING SOURCES							Total Project Cost
		State Aid Regular Account	State Aid Municipal Account	TWP/City/ Other Funds	State Park Road Funds	Federal Funds	Town Bridge Account	Bridge Bonding Grant	
CSAH 21	Reclaim & Pave CSAH 14 - TH 15 4.5 Miles	\$2,000,000							\$2,000,000
CSAH 32	Reclaim & Pave CSAH 23 - CSAH 11 3.8 Miles	\$1,700,000							\$1,700,000
<b>2029 FUNDING SUMMARY</b>		<b>\$3,700,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,700,000</b>



# QUESTIONS & DISCUSSION

Phil Schmalz, P.E.

Public Works Director/County Engineer

Meeker County

320-693-5360

