

Johnson County Secondary Roads Department

Adopted
03.19.2020



Iowa DOT County Five-Year Program (CFYP)
and Maintenance Rehabilitation Program

Calendar 2020-2024
(Fiscal 2021-2025)



A BRIEF INTRODUCTION: JOHNSON COUNTY'S SECONDARY ROAD SYSTEM

(Data based on relatively recent IADOT published values)

- Roads

- Approximately 317 Farm-to-Market Route Miles
- Roughly 920 Total Miles of Secondary Roads by surface type:

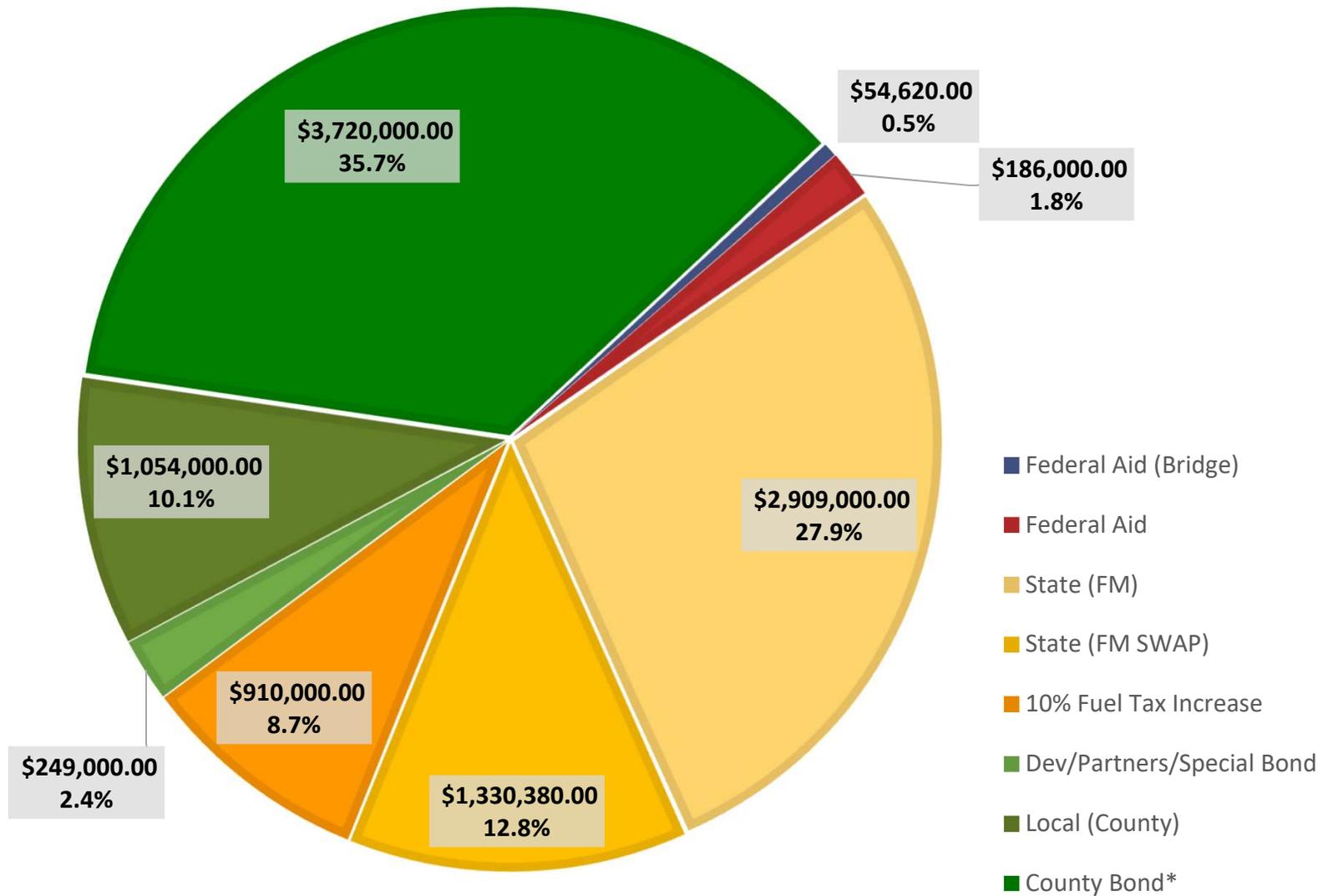
Dirt	Gravel	Bituminous/Chipseal	Asphalt (HMA)	Concrete (PCC)
41	585	122	138	32

- Which means almost 1840 miles of roadside vegetation and ditches to manage too
- Roads are designed to last between 30-40 years for a total reconstruction
- Maintenance and rehabilitation projects hold things together between reconstructions
- 217 Bridges longer than 20 feet
 - All bridges ≥ 20 feet in length (NBIS) required by Congress through FHWA to be inspected at no less than 24 month intervals
 - Johnson County bridges rank very well compared with most in Iowa, although Iowa struggles with a low ranking nationwide due to the sheer number of bridges on the system
 - Bridges are designed to last 50 years or more – although many of our bridges are Centenarians!
 - We have 22 structurally deficient and 4 functionally obsolete bridges at this time but we're aggressively replacing and repairing them as part of our CFYP. Only 3 FC bridges left – 1 under construction and 1 in the program.
- Thousands of culverts
- Maintaining and improving this vital transportation network is our daily mission



CFYP CONSTRUCTION

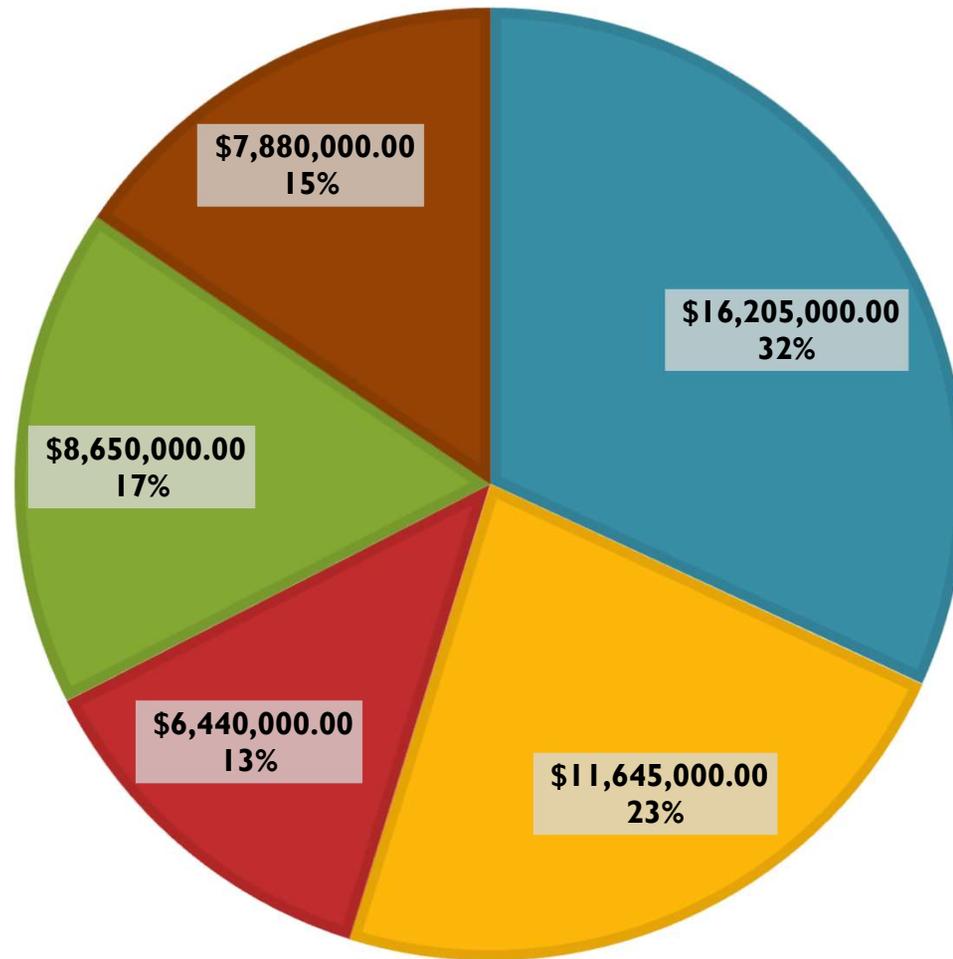
(Revenue/Expenditures - Average Values – All Sources - Calendar 2020-2024)



*- County Bond Funding is subject to Iowa legislature and BOS approval

CFYP CONSTRUCTION

(Expenditures By Calendar Year – 2020-2024)

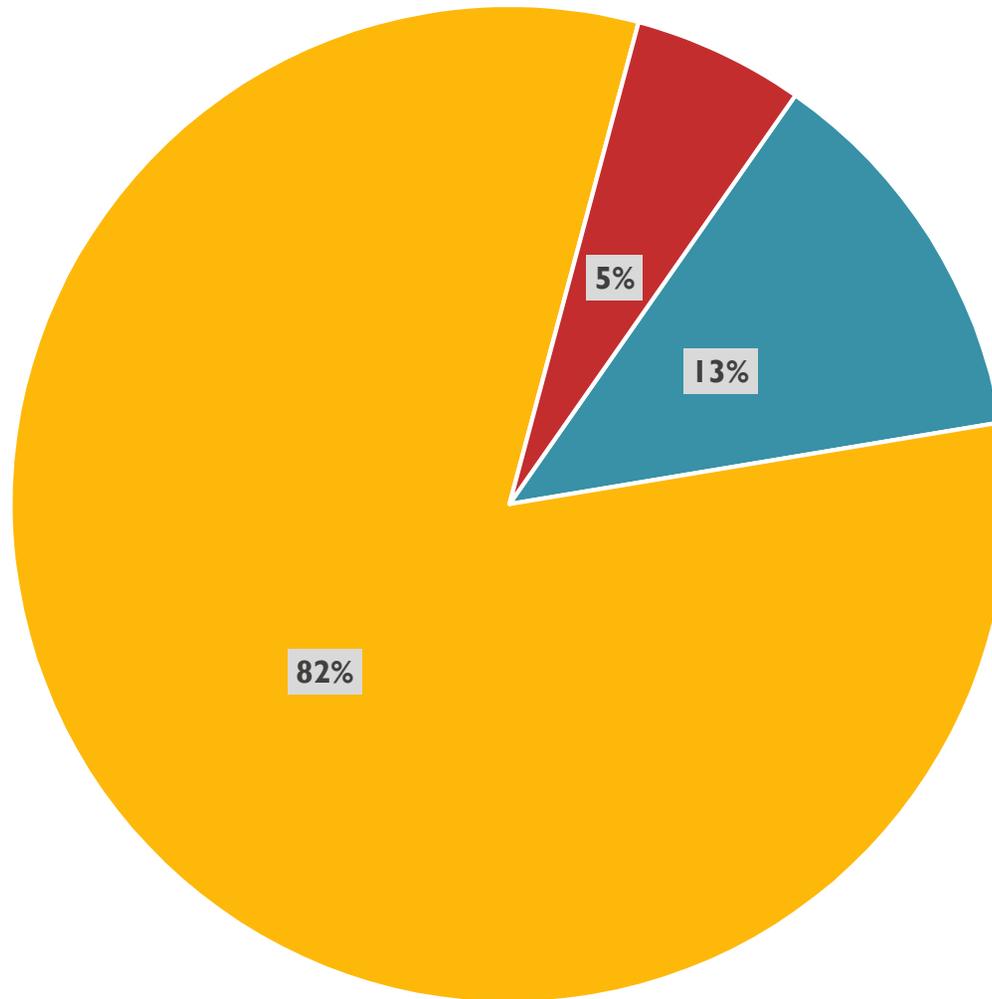


- 2020
- 2021
- 2022
- 2023
- 2024



CFYP CONSTRUCTION

(Expenditures by Project Type Calendar 2020-2024)



■ Bridges/Culverts ■ Paved Roads ■ Gravel Roads/MRP





Calendar Year Project Summary

° JOHNSON COUNTY CFYP



ANTICIPATED CALENDAR 2020 CONSTRUCTION

Road Construction	Structures
<ul style="list-style-type: none"> • W60 – (Hwy 965 NW) <ul style="list-style-type: none"> • North Liberty to Croy Road • Resurfacing/Widening and Flood Mitigation • W6E – (Ely Road NE) <ul style="list-style-type: none"> • 140th Street to Seven Sisters • Reconstruction & Flood Mitigation • F46 – (IWV Road SW)/Melrose Avenue <ul style="list-style-type: none"> • Hebl to Hwy 218 • Utility Relocation • Joint project with Iowa City • 540th Street SW <ul style="list-style-type: none"> • Highway 1 to Gable • Reconstruction • Developer contribution • F44 – (Herbert Hoover Hwy NE)* <ul style="list-style-type: none"> • I-80 to 0.9 Mile East of Wapsi • Reconstruction 	<ul style="list-style-type: none"> • O-32-1, W38 (Black Hawk Ave SW) over Old Man’s Creek <ul style="list-style-type: none"> • Fracture Critical Bridge replacement • I-33-1, Utah Avenue NE over Branch of Rapid Creek <ul style="list-style-type: none"> • Bridge replacement



* Bond Funded Project

**Fuel Tax Project

ANTICIPATED CALENDAR 2021 CONSTRUCTION

Road Construction	Structures
<ul style="list-style-type: none"> • F46 – (IWW Road SW)/Melrose Avenue <ul style="list-style-type: none"> • Hebl to Hwy 218 • Reconstruction • Joint project with Iowa City • F20 – (Amana Road NW)** <ul style="list-style-type: none"> • Hwy 965 to Greencastle • Grade, Macadam Stone Base & Choke Surface • F62 – (500th Street SW)** <ul style="list-style-type: none"> • Angle Road to Highway 1 • Rehabilitation • F44 – (Herbert Hoover Hwy NE)* <ul style="list-style-type: none"> • 0.9 Mile East of Wapsi to Johnson-Cedar Road • Reconstruction 	<ul style="list-style-type: none"> • I-9-1, F36 (Putnam St NE) over East Fork Rapid Creek <ul style="list-style-type: none"> • Bridge replacement • Local Bridge Maintenance 2021, Multiple Locations <ul style="list-style-type: none"> • C-21-5 • O-25-1 • P-2-3 • E-20-2, Black Hawk Ave. NW over Branch of Clear Creek <ul style="list-style-type: none"> • Bridge replacement • \$273k Federal Competitive Highway Bridge Program Grant Award Winner (Bundled with Benton County)



* Bond Funded Project

**Fuel Tax Project

ANTICIPATED CALENDAR 2022 CONSTRUCTION

Road Construction	Structures
<ul style="list-style-type: none"> • F46 – (American Legion Road SE)** <ul style="list-style-type: none"> • Taft to Hwy 6 • Rehabilitation • F12 – (120th Street NE)* <ul style="list-style-type: none"> • Shueyville to Hickory Hollow & Club Road NE from Shueyville to Linn County • Rehabilitation 	<ul style="list-style-type: none"> • O-30-2, Rohret Road SW over Mooney Creek <ul style="list-style-type: none"> • Bridge replacement • Q-22-2, James Avenue SW over unnamed stream <ul style="list-style-type: none"> • Bridge replacement



* Bond Funded Project

**Fuel Tax Project

ANTICIPATED CALENDAR 2023 CONSTRUCTION

Road Construction	Structures
<ul style="list-style-type: none">• F67 – (540th Street SW)**<ul style="list-style-type: none">• Calkins Ave to Highway 1• Rehabilitation• F12 – (120th Street NE)*<ul style="list-style-type: none">• Hickory Hollow to Ely Road• Rehabilitation	<ul style="list-style-type: none">• P-20-1, 520th Street SW over Deer Creek<ul style="list-style-type: none">• Fracture Critical Bridge replacement• I-20-2, Dingleberry Road NE over Rapid Creek<ul style="list-style-type: none">• Bridge replacement



* Bond Funded Project

**Fuel Tax Project

ANTICIPATED CALENDAR 2024 CONSTRUCTION

Road Construction	Structures
<ul style="list-style-type: none">• F67 – (540th Street SW)<ul style="list-style-type: none">• County Line to Calkins• Rehabilitation• F46 – (I WV Road SW)* **<ul style="list-style-type: none">• Greencastle to Ivy• Reconstruction	<ul style="list-style-type: none">• T-33-1, Utah Avenue SE over Buck Creek<ul style="list-style-type: none">• Bridge replacement• A-9-2, 120th Street NE over unnamed creek<ul style="list-style-type: none">• Bridge replacement



* Bond Funded Project

**Fuel Tax Project

FUTURE PRIORITIES

(Subject to change - Listed alphabetically)

120th Street from Hickory Hollow to Ely Road

140th Street Culvert just West of Ely Road

250th (Penn) Street/Echo Avenue Grade for Pave

500th Street from Naples Avenue to Oak Crest Hill Road

540th Street West of HWY 1

Amana Road stabilized macadam base from Greencastle to Iowa County

Black Diamond Road - Iowa County to HWY 1

Dubuque Street from I-80 to North Liberty

High Volume Chipseal Transition Plan

IWW Road from Blackhawk to Ivy

Rapid Creek Road from HWY 1 to Wapsi

Utah Avenue from HWY 6 to 520th Street

Wapsi Avenue from 520th to Lone Tree



THANK-YOU'S

- The Johnson County Board of Supervisors
 - Prioritize infrastructure improvement
 - Support Secondary Roads mission
 - Invest through bonding and sustained local contribution
- Our Technicians
 - Milton Castro
 - Adam Finken
 - Adam Gebhart
 - Paul Wittau
- Residents of Johnson County
 - Take an active part
 - Care about this community
 - Willing to invest in it



"The Johnson County Secondary Road Department's purpose is to enhance and maintain the county's road system. The department is committed to providing the citizens of Johnson County, and all who use our roads and trails, superior infrastructure and maintenance that improves mobility and a commitment to environmental and economic accountability. Departmental activities strive to meet and most often exceed expectations in the most efficient, effective, and responsible manner."



QUESTIONS?



(Unless you plan ahead, slow down, and drive safely in work zones.)