

**WOODBURY COUNTY
SECONDARY ROAD DEPARTMENTT**

COUNTY ROAD STRATEGIC PLANNING
DISCUSSION

2013

04.28.2011

Woodbury County Inventory

- Woodbury County System inventory:
 - 1347 miles of open roads
 - 252 miles HMA paved roads
 - 88 miles PCC paved roads
 - 941 miles of gravel roads
 - 66 miles of dirt roads
 - 317 bridges
 - Average bridge length is 85 feet
 - Longest county bridge is 412 feet long
 - Three other bridges are 351 feet long

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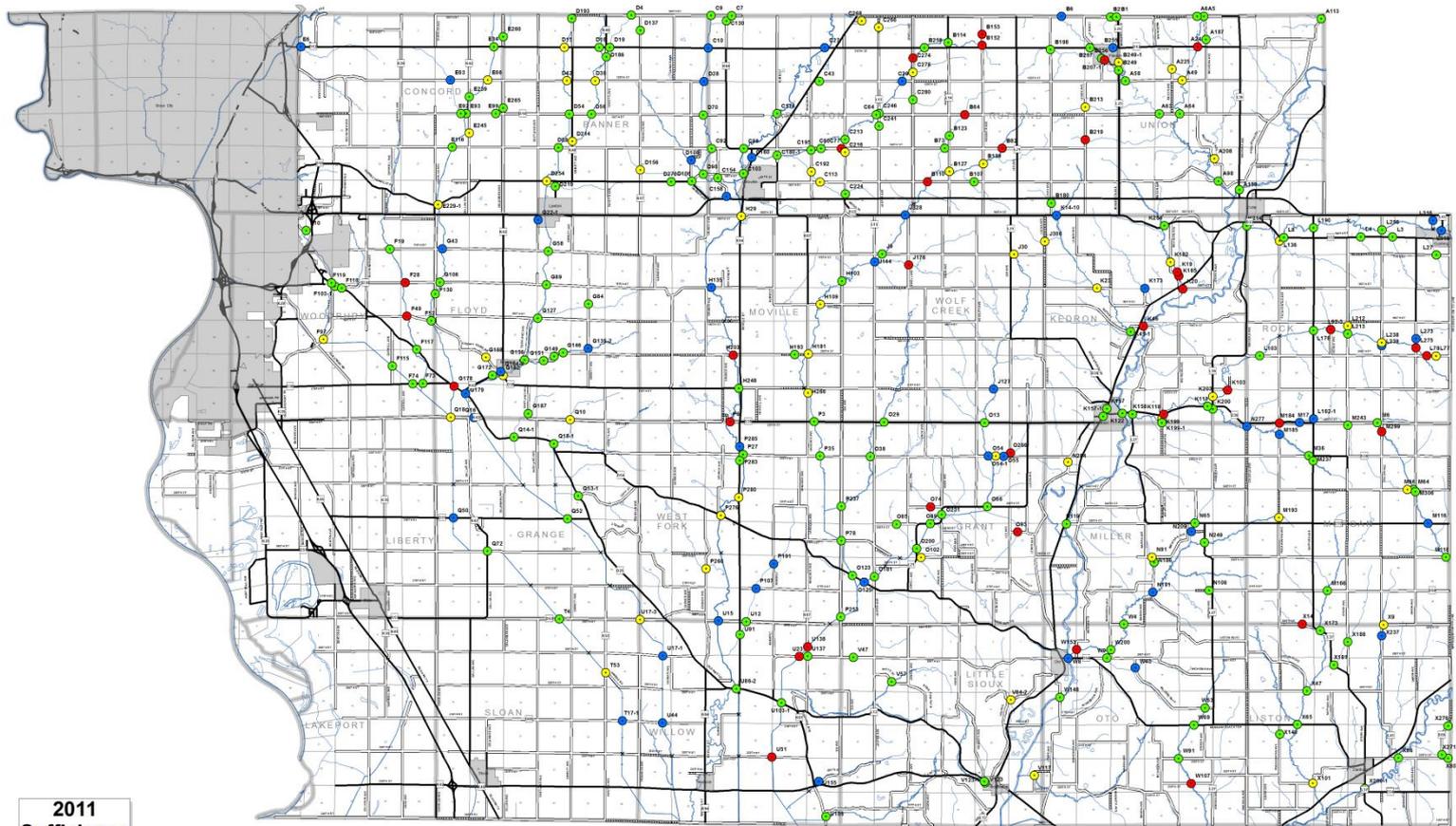
Bridge Needs

- FHWA classifies a bridge as a structure that is over 20 feet long.
- Bridges with a sufficiency rating below 50 are eligible for federal aid replacement funding.
- Bridges with a sufficiency rating below 80 are eligible for federal aid rehabilitation funding.

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BRIDGE NEEDS

Woodbury County Bridges



**2011
Sufficiency
Ratings**

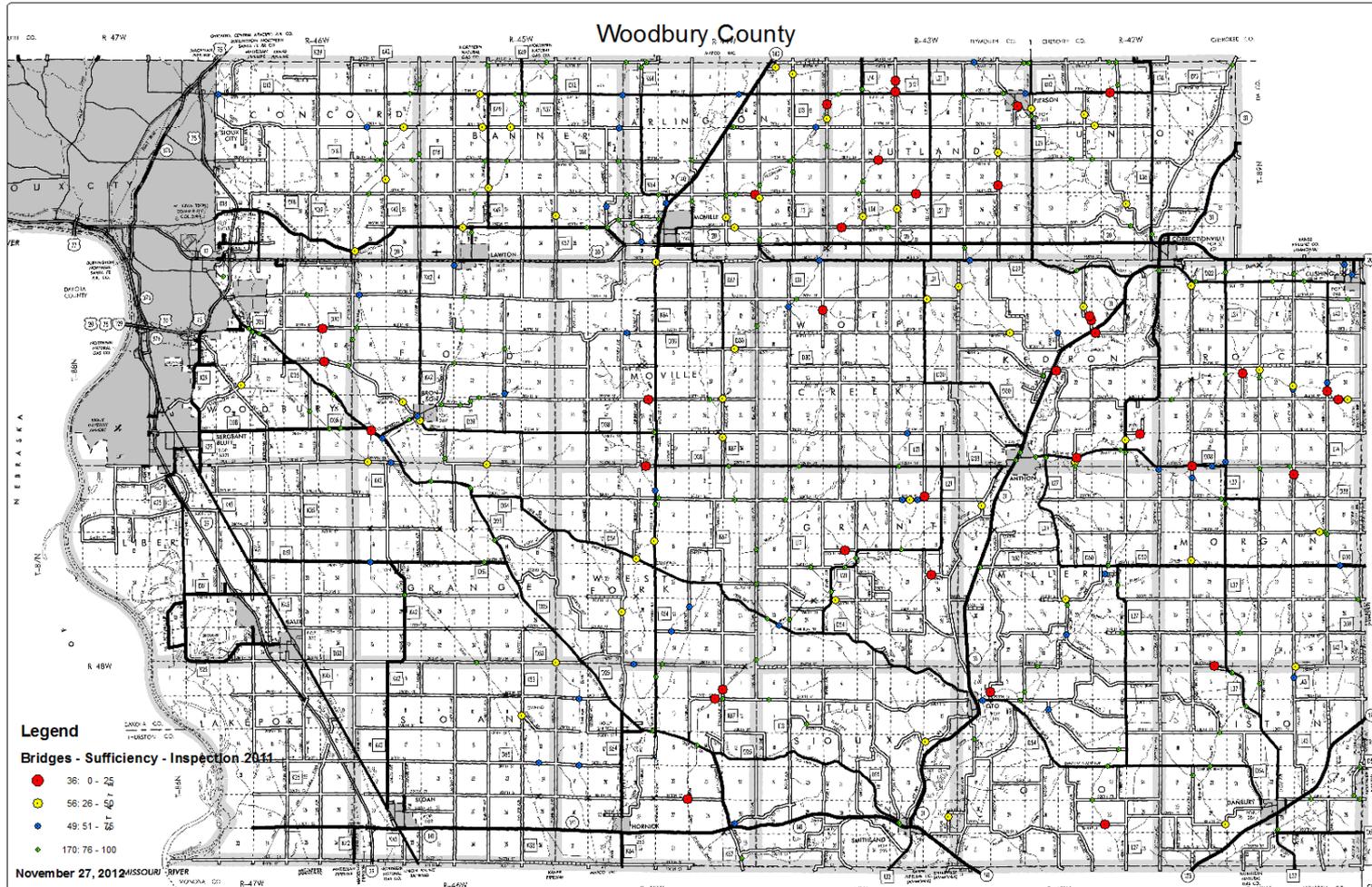
| | |
|---|---------------|
| ● | 36: 0 - 25 |
| ● | 56: 26 - 50 |
| ● | 49: 51 - 75 |
| ● | 170: 76 - 100 |

Bridge Needs

- Estimated bridge life is 50 years.
- Average bridge age in Woodbury County is 41 years.
- 69 bridges in the Woodbury County inventory have less than 5 years of estimated life remaining.
- Currently only 32 of the 69 bridges are in the county five year construction program.

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Bridge Needs



Bridge Needs

- County receives approximately \$368,000 per year in federal aid bridge funds.
- Amount will change in FY 2013 once regulations on federal aid under MAP-21 are finalized.
- Average new bridge cost is approximately \$400,000.
- The estimated cost for the remaining 37 bridges with less than five years of remaining life approaches \$15,000,000.

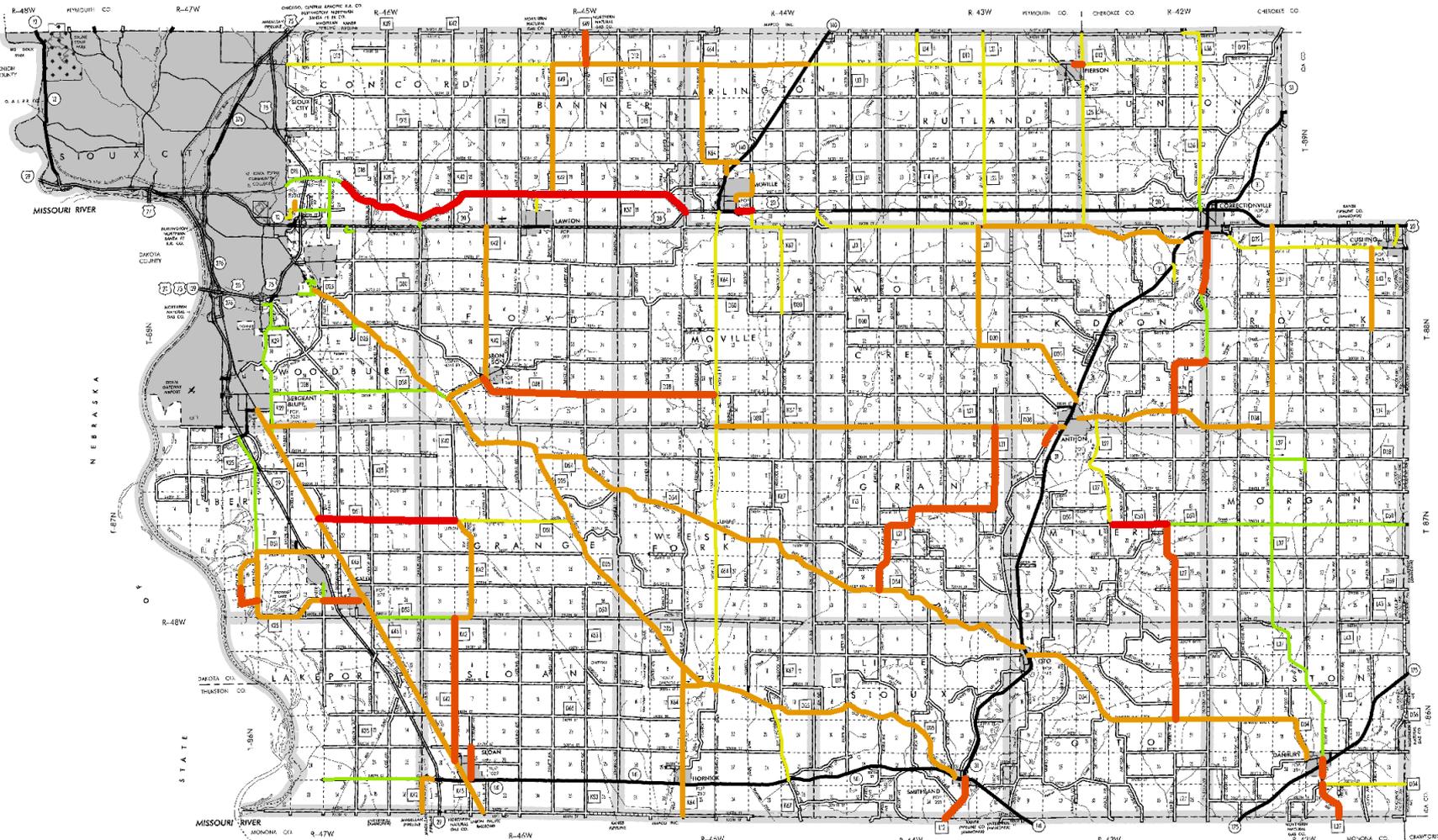
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PAVED ROAD NEEDS

- Average paved road design life is 20 years.
- Cost for an HMA overlay is approximately \$200,000 per mile for 3" milling of existing surface followed by a 3" overlay.
- County currently receives \$1,240,000 per year in farm to market funding.
- Historically the county has qualified for about \$350,000 per year in federal aid.
- Federal aid picture changing under MAP-21.

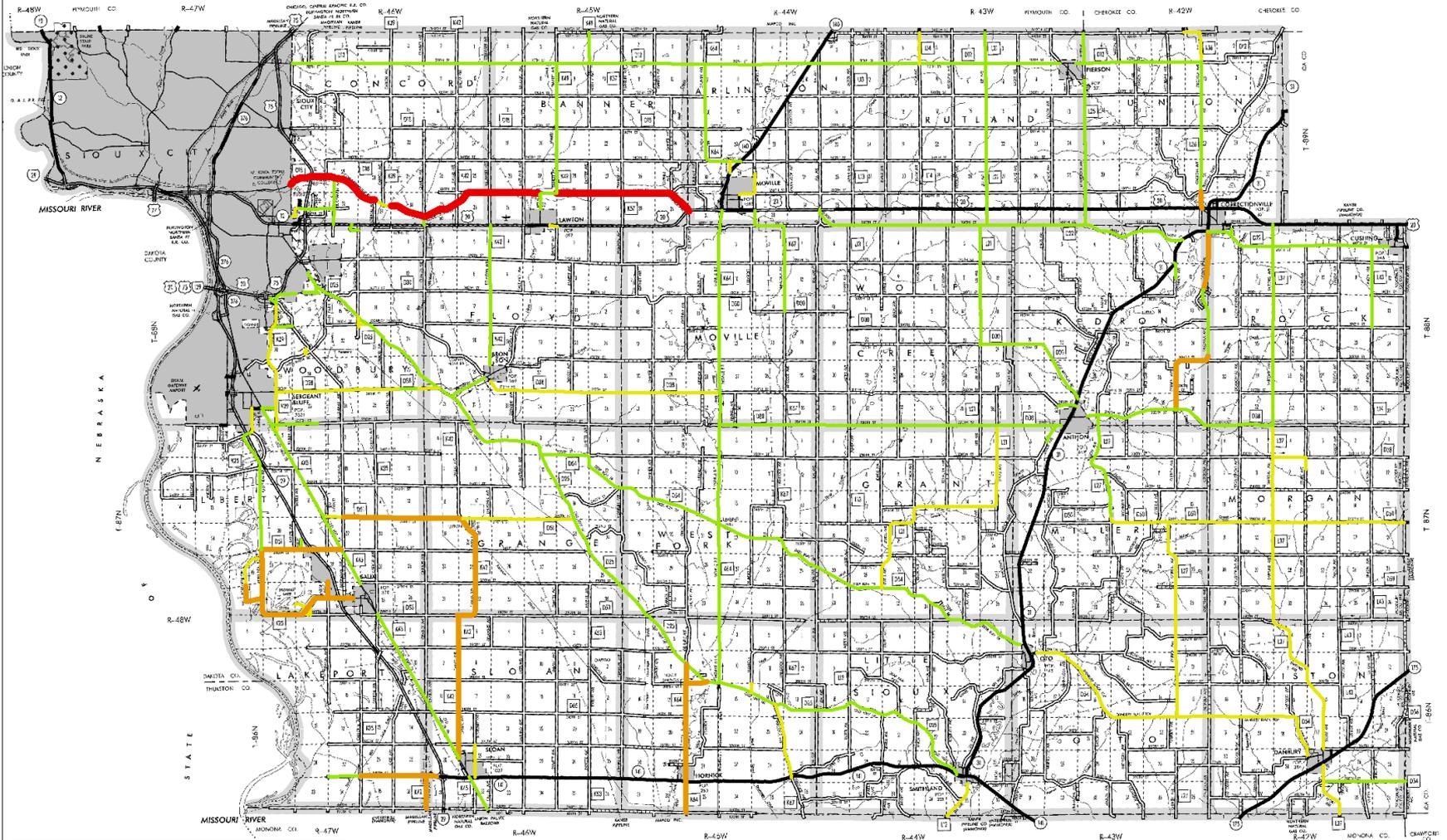
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Woodbury County Pavement Condition 2012



| Pavement Condition | |
|---|----------|
|  Fair | 148.85mi |
|  Bad | 17.24mi |
|  Good | 78.85mi |
|  Poor | 38.11mi |
|  Excellent | 48.57mi |

Woodbury County Pavement Condition 2012



| Last Surfaced | |
|---------------|-------------|
| 1921 | 1922 - 1952 |
| 1973 - 1992 | 1993 - 2012 |

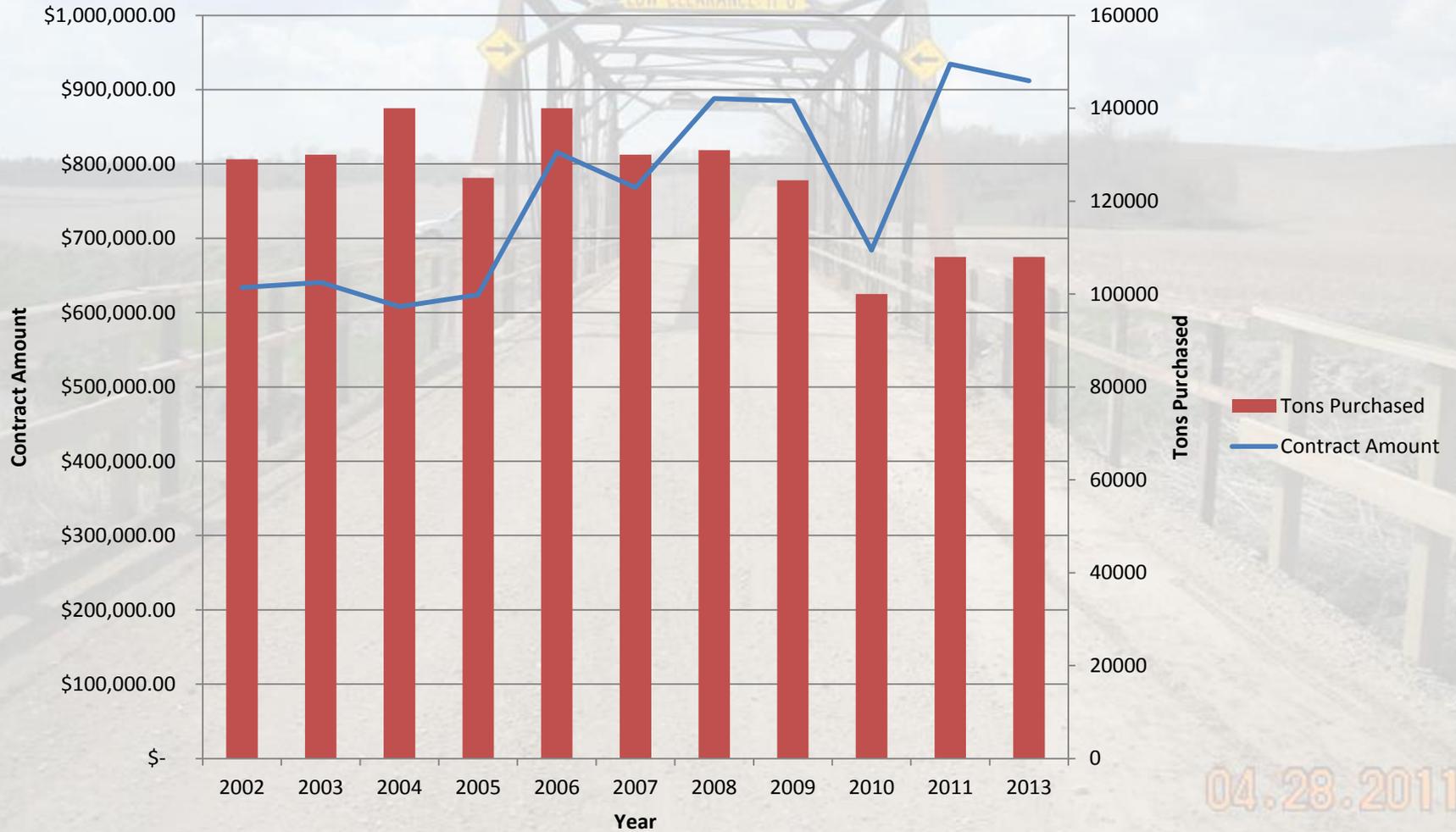
GRAVEL COST INCREASES

- While our spending level has increased, our money is not going as far as past years.
- Annual purchase has declined from 130,000 tons in FY 2006 to 108,000 tons in FY 2013.
- At an average application rate of 300 tons per mile, the county is re-gravelling 80 fewer miles per year in 2012 than 2006.

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GRAVEL COST CHART

Gravel Purchases



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BUILDING NEEDS

- FIVE YEAR PRIORITY NEEDS:
 - SIGN SHOP - \$150,000
 - REPLACE LOST ENGINEERING GARAGE - \$30,000
 - CORRECTIONVILLE ROOF –Foam and Seal- \$37,000
 - SALT BUILDING AT LUTON - \$65,000
- FIVE YEAR BUILDING NEEDS: \$282,000

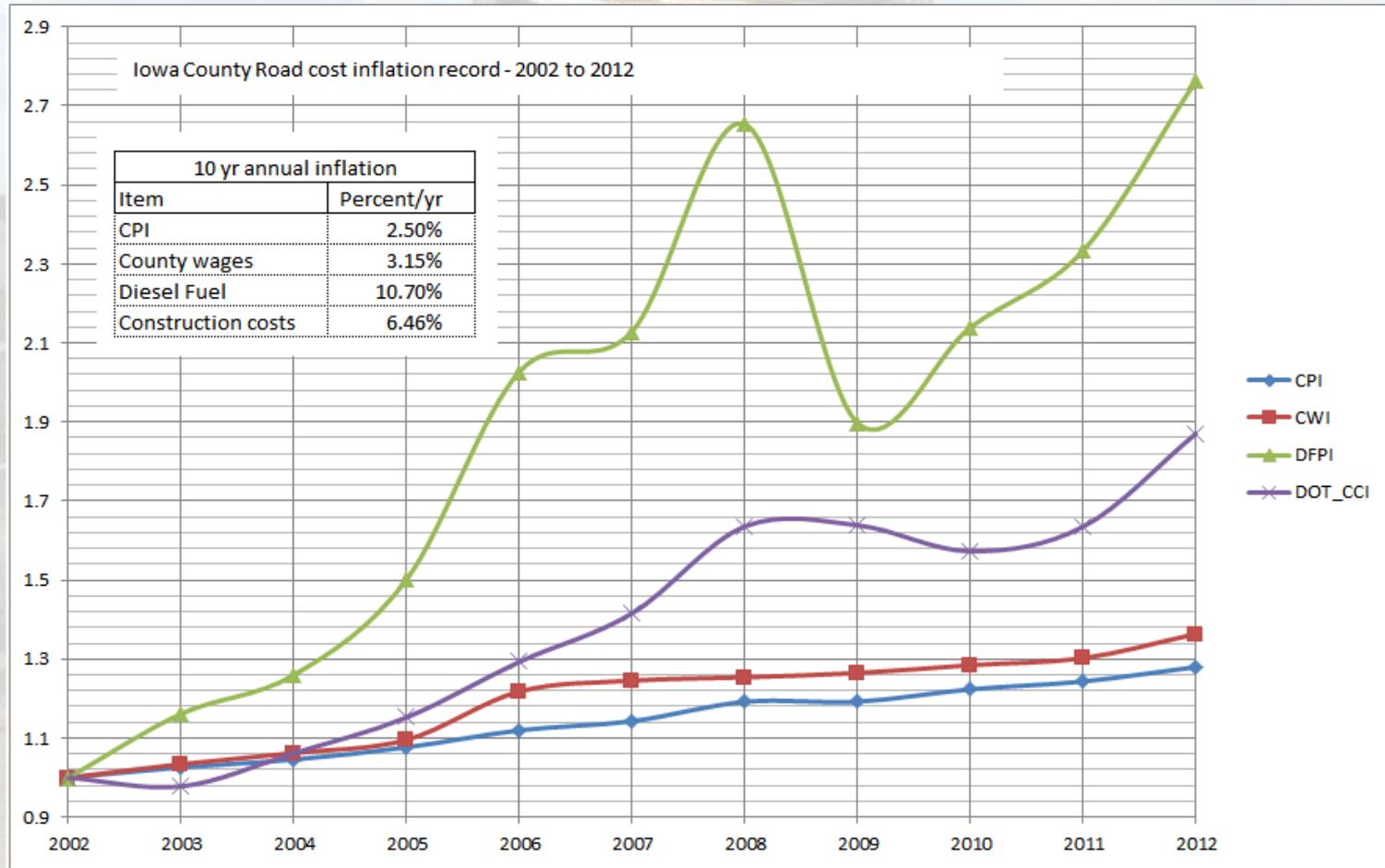
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EQUIPMENT NEEDS

- Woodbury County has 103 pieces of rolling equipment – on road, off road and trailers
- Fleet replacement value is \$15,868,000 in 2011 dollars
- Based on average replacement lives, the county should be budgeting about \$940,000 per year for replacement equipment.
- County kept pace until 2009.

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DRIVERS OF COST GROWTH



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ROAD USE TAX FUNDS

- RUTF remains relatively constant, approximately \$4,000,000 per year
- TIME 21 money is growing slowly, up to \$455,000 per year for FY 2014.
 - Money can only be used for bridges or farm to market roads.
 - Right now, we are using this funding for local bridge work and pavement patching.

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PROPERTY TAX LEVY

- 75% MINIMUM LOCAL EFFORT WILL BE PROPOSED FOR NEXT FISCAL YEAR
- TO MAINTAIN MINIMUM LOCAL EFFORT, AN \$83,000 INCREASE WILL BE NEEDED.
- MINIMUM LEVY BUDGETING REQUIRES A PROPERTY TAX INCREASE EVERY YEAR IF COUNTY VALUATION GROWS.

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PROPERTY TAX LEVY

- ADDITIONAL AVAILABLE FUNDING
 - GENERAL LEVY \$ 600,108
 - RURAL BASIC LEVY \$ 1,874,652
- NEXT YEAR'S BUDGET SUBMITTAL WILL FOLLOW RECENT DIRECTIVES, BUT I WOULD LIKE TO OFFER THE BOARD SOME ALTERNATIVES
- ADDITIONAL FUNDS WILL BE REQUESTED FOR ONLY THE FOLLOWING:
 - GRAVEL INCREASE
 - CONSTRUCTION PROJECTS

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CHOICES

- RECENT RESEARCH STUDY
 - PAVED ROAD MAINTENANCE \$23,400 PER YEAR
 - GRAVEL ROAD MAINTENANCE \$8,000 PER YEAR
 - DIRT ROAD MAINTENANCE \$1,000 PER YEAR
- BASED ON THESE FIGURES WOODBURY COUNTY MAINTENANCE BUDGET SHOULD BE \$15,957,000
- CURRENT BUDGET ALL SOURCES: \$10,500,000

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