

"The County Supervisors and Engineer Relationship and Funding Sources available to the Secondary Roads".

Thursday, January 19, 2023 Sheraton West Des Moines NCO Meeting

> Danny R. Waid, P.E. Executive Director ICEA Service Bureau

Board of Supervisors / County Engineer Relationship

- Duties, Roles, and Responsibilities
 - Board of Supervisors
 - County Engineers
- Policies

Funding Overview

Resources and Association Services

• ICEA Service Bureau Support Services

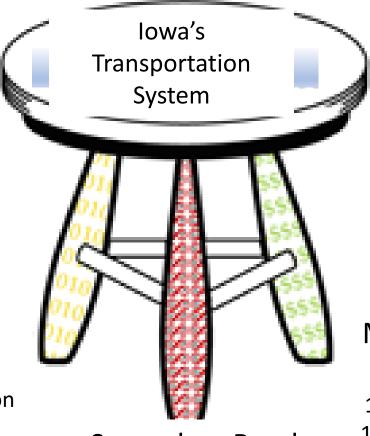
Iowa Code References

- Iowa Code Chapter 306 Defines jurisdiction of the System.
- Iowa Code Chapter 309 Secondary Roads
- Iowa Code Chapter 310 Farm to Market Road System
- Iowa Code Chapter 311 Secondary Road Assessment Districts
- Iowa Code Chapter 312 Road Use Tax Fund
- Iowa Code Chapter 313 & 314 Iowa Department of Transportation
- Iowa Code Chapter 315 RISE
- Iowa Code Chapter 316 Relocation of people displacement by Transportation
- Iowa Code Chapter 317 Weeds
- Iowa Code Chapter 318 Obstructions in the Highway
- Iowa Code Chapter 320 Use of Highway for Sidewalks, Service Mains, or Cattle-ways
- Iowa Code Chapter 321 thru 326 Motor Vehicle Laws of the Road
- Iowa Code Chapter 331 County Home Rule
- Iowa Code Chapter 468 Iowa Drainage Law & Drainage Districts

Transportation System ICS-306

Three Legged Stool

Primary System
9,000 miles
4200 Bridges
Department of Transportation



Secondary Roads

Farm to Market Roads
Local Roads
90,000 miles
18,500 Bridges
County

Municipal
Street
15,000 miles
1,200 Bridges
Cities

Duties, Roles, and Responsibilities

- Board of Supervisors Responsibilities
 - Iowa Code Section 306.10 gives the authority to the Board to establish, alter and vacate roads.
 - The Board has sole authority to define and change what roads are to be included in the Secondary Road System.
 - Board can pass resolutions/ordinances to establish speed limits (lowa Code Section 321.285) and stop signs (lowa Code Section 321.345) in the county.
 - lowa Code Section 318 discusses removal of obstructions in the highway rights of way.
 - The highway authority shall cause all obstructions in a highway right-of-way under its jurisdiction to be removed.

Board of Supervisors – (Continued)

• Iowa Code 309.17 Engineer– term:

"The board of supervisors shall employ one or more licensed civil engineers who shall be known as county engineer. The board shall fix their term of employment which shall not exceed three years, but the tenure of office may be terminated at any time by the board."

Board and Engineer

- 309.22 Construction project progress report by engineer.
 - On or before the fifteenth day of April of each year the board of supervisors, with the assistance of the county engineer, shall, subject to the approval of the department, adopt a secondary road construction program...
 - ... After the close of each fiscal year, and not later than September 15, the county engineer shall submit an annual report to the department. The annual report shall include a statement of the progress made toward the completion of each project contained in the approved project accomplishment list on which work was accomplished, a statement of the total amount expended on each project during the year, and a statement of what portion of the work on each project was done on contract and the amount expended on each contract for each project.

Duties, Roles, and Responsibilities

- County Engineers
 - Iowa Code 309.21 Supervision of Construction and Maintenance Work:
- "All construction and maintenance work shall be performed under the direct and immediate supervision of the county engineer who shall be deemed responsible for the efficient, economical and good-faith performance of said work."

Generally:

- County Engineer is to advise the Board on road matters.
- County Engineer, pursuant to 309.21 and the Board's established policies, has direct oversight of the Secondary Roads Department to carry out those policies.

Symbiotic Relationship

- Symbiotic relationships are a special type of interaction between species. Sometimes beneficial, sometimes harmful, these relationships are essential to many organisms and ecosystems, and they provide a balance that can only be achieved by working together.
- Trust
- Credibility
- Consistency
- Communication
- Goals
 - Best condition practicable
 - Build Higher Level of Public Trust

Iowa Code 309.67 Duties of County Board of Supervisors and County Engineer

Board's Duties

 Establish Secondary Road Policy

 Provide adequate funds to properly maintain the secondary road system

Board of Supervisors set policy for the secondary roads.

Engineer's Duties

 ... pursuant to section 309.21 and board policy, adopt such methods and recommend such personnel and equipment necessary to maintain continuously, in the best condition practicable, the entire mileage of said system

County Engineer is the official responsible for operations of the Secondary Roads.

Other Areas of Expertise

- Landfill requirements
- Urban Development
- Hydrology, Hydraulics, and Drainage
- Land surveying
- Herbicide application
- Labor relations
- Civil defense
- Homeland security
- Functional classification of roads
- Equipment purchase and repair
- Management and personnel
- Legal requirements
- Programming, budgeting, and accounting procedures
- Safety standards
- etc.

Typical Yearly Activities Winter: Dec. – Feb.

- Winter Snow and Ice Control
- Brush cutting
- Equipment repairs and shop interior maintenance

- Design and Plan Preparation
- Budget and 5 Year Program Prep.

Typical Yearly Activities Spring: March – May

- Frost-boil repair and spring road reshaping
- Sign replacement
- Equipment retooling for summer activities
- Road spot rocking
- Equipment, Material, and supplies procurement and re-stocking
- Design and Project Lettings

Typical Yearly Activities Summer: June – August

- Day Labor Construction
- Bridge and Culvert Work
- Mowing, Weed Spraying, and shoulder repair
- Drainage work and Dust Control Application
- Pavement Patching and Crack Sealing
- Blading and rock re-surfacing
- Surveying and Construction Staking
- Construction Observation and Materials Inspection
- Contract administration
- Year End Inventories and Accounting

Typical Yearly Activities Fall: Sept. – Nov.

- Final mowing, rocking, and road shaping for winter.
- Finish up day labor construction projects
- Re-stock snow and ice control materials
- Equipment retooling for winter

- Finishing project construction
- Preliminary Surveys for winter design work
- Project close out and project file audits

Other Year Around Activities

- Bridge Inspections and ratings
- Permitting
- Safety Training
- Pavement review and evaluation
- Sign Inspection and Replacement
- Equipment repair and replacement
- Human Resources and Personnel Issues
- Work Requests from the Public

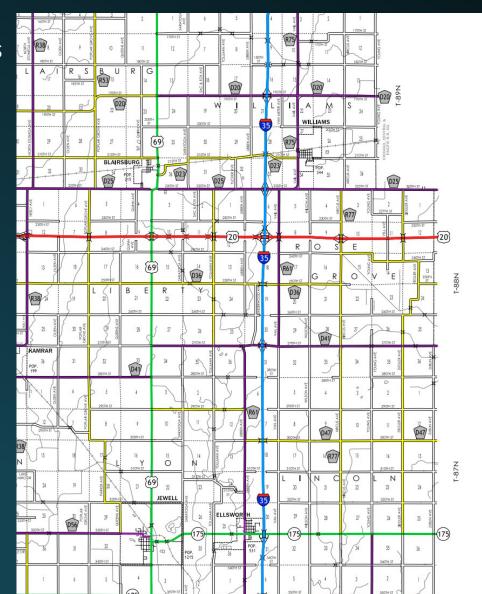
Policies

- Typical Written (or Unwritten) Policies
 - Level B (and/or Level C) Road Ordinance
 - Snow and Ice Control Ordinance
 - Dust Control policy
 - Utility Permits / Work in the ROW / Oversize Load / other
 - Adopt a Highway policy
 - Entrance Policy
 - Ditch Cleaning / Disposal of ditch cleaning spoil
 - Sign Inspection Policy per MUTCD
 - Tile Crossing/Outlet Policy
 - ATV/Snowmobile on-right-of-way Policy
 - Personnel Handbook
 - Safety Manuals OSHA and MSHA
 - ADA Compliance and Transition Plan
 - · Title VI Standards Assurance Plan
- List is not exhaustive

Classification of Roads

Area Service Classification – Local Roads

- Level A
- Level B
- Level C
- Farm to Market Classification FM
- Federal Aid System FAS
 - Federal Aid Bridge
 - Federal Aid Surface Transportation
- Other maintenance responsibilities
 - · State parks that begin and end on County Route
 - Cemetery access





United States Department of Transportation

December 19, 2014





HYDROLOGY BRIDGE STATE BOUNDARY COUNTY BOUNDARY COPPORATE BOUNDARY

TOWNSHIP LINE SECTION LINE ROAD NAMES UNINCORPORATED PLACE

TE PARKS

Area Service Classification

309.57 Allows for three levels of road maintenance

Level A – Continuously Maintained

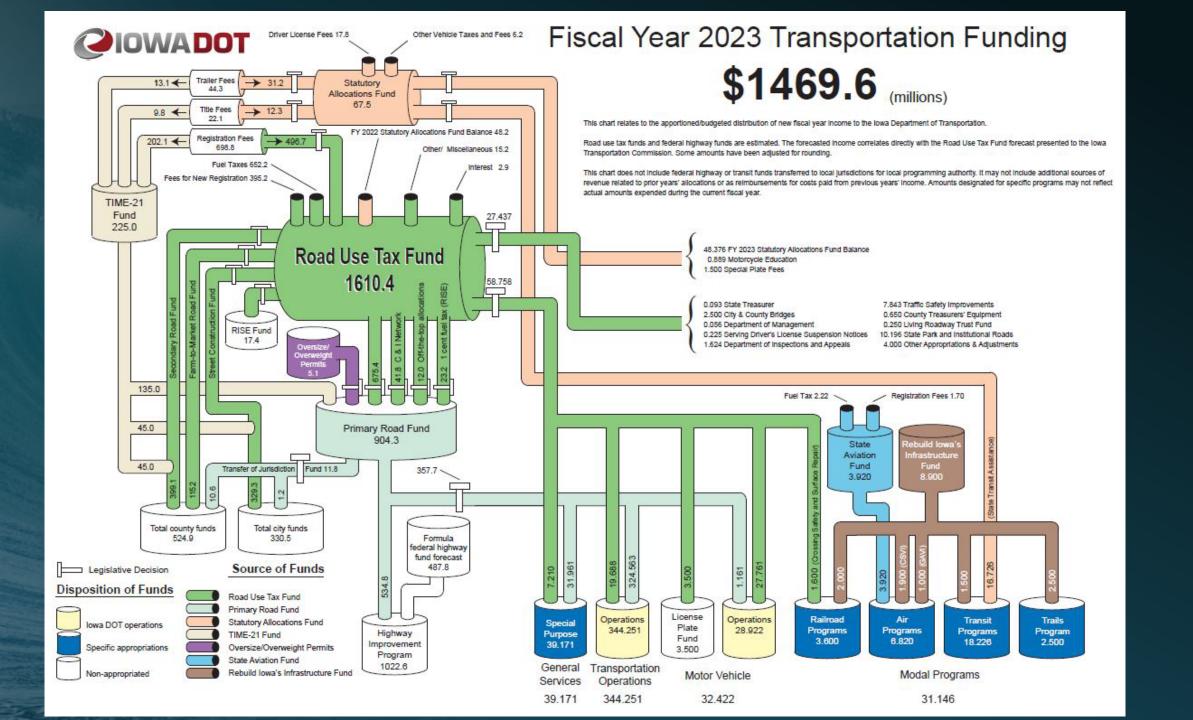
Level B – Minimum Maintenance

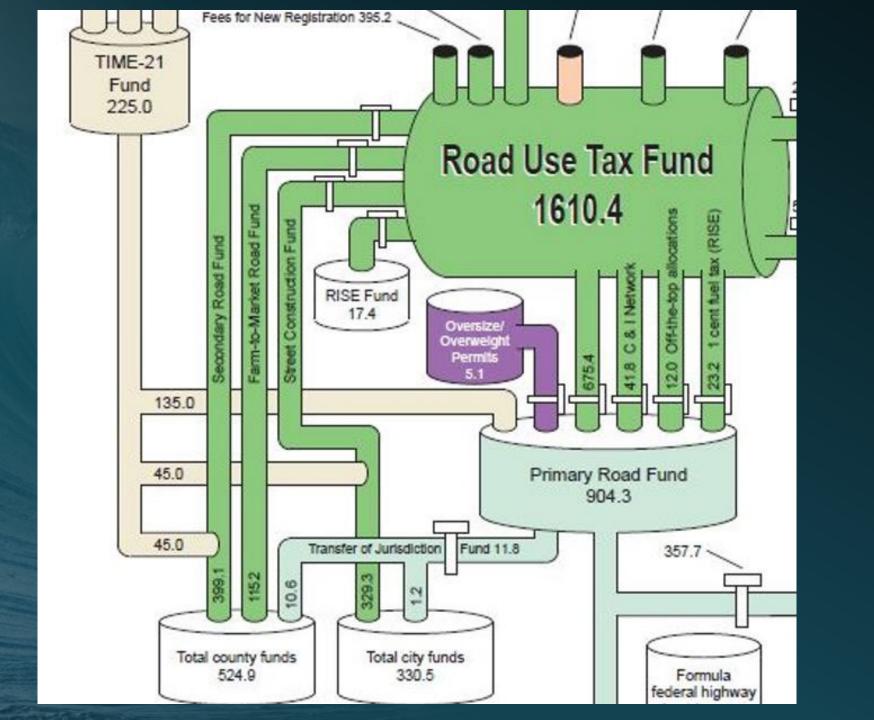
 Level C – Minimum Maintenance with restricted access, fenced, gated, or locked



Secondary Road Funding

Made Simple?





Road Use Tax

- Taxes from new vehicle sales, Registration Fees, & Fuel Tax
 - RUT (and any \$ co-mingled with) are Constitutionally Protected to be spent on roads only
- Last Fuel Tax Increases in 1989 and 2015 (10 cents)
 - 47.5% State
 - 20% City
 - 24.5% County (Local)
 - 8% Farm to Market Fund

- TIME-21: Created in 2008 with any additional "new" revenues split:
 - 60% State
 - 20% City
 - 20% County

Funding Sources Available to Counties

- Local Secondary Road Fund Account is managed at County
 - Road Use Tax
 - New vehicle sales
 - Registration Fees
 - Fuel Tax
 - Misc Fees
 - Property Tax
 - Rural Services Basic: Rural Property Valuation x \$3.00375/1000 (Max Transfer)
 - General Basic: All Property Valuation x \$0.16875/1000 (Max Transfer)
 - Other: LOST, TIFF, RISE, HSIP, etc.

- Farm to Market Fund Account is managed at Iowa DOT
- Federal Aid / SWAP Account is managed at Iowa DOT

Local Secondary Road Funds – Local \$

- Local Property Tax (30% of revenues)
 - Rural Services Funds
 - General Basic Funds
 - Requires at least 75% Local Effort
- Road Use Tax RUT (60% of revenues)
 - Regular RUT
 - Transfer of Jurisdiction
 - FM Extension Transfers
 - TIME-21
 - RUT co-mingled with other road funds are constitutionally protected to be only used for roads
- Other Misc. Revenues (10% of revenues)



Federal Funds

 Federal Funds are allocated through the Regional Planning Organizations (RPA or MPO)

 Bridge Replacement Funds – County receives direct allocation (\$250K per year)

 Surface Transportation Funds, STP – County submits application and receives project approval from regional planning process (\$225K per year)

Distribution of funding between Counties

- "Old Needs Formula" Previous distribution method was not reliable, massive fluctuations in allocations
 - 30% Area and 70% needs (subjective input from field review personnel)
- Iowa Secondary Roads Fund Distribution Advisory Committee 2002 Code of Iowa Section 312.3C
 - Committee to study methodologies for distribution of the SRF and FM funds
 - Final SRFDC report submitted in 2005 and officially adopted in Iowa Administrative Code in 2006
 - It has been very stable, long term adaptation, fair to all citizens (urban and rural alike), Reduced inverse incentives, Treats like counties alike, and remains easy to understand and evaluate.
- SRFDC Formula Factors and weightings see chart (ICEA Service Bureau)

| Factors | Total Area | Rural Pop | VMT | Earth | Granular | Paved | LFBD | Total |
|---------|----------------|--------------|-------|--------|----------|--------|--------|-------|
| SRF | 30% | 10% | 12.5% | 0.5% | 20% | 13% | 14% | 100 |
| FM | 30% | 15% | 10% | 0% | 9% | 23% | 13% | 100 |
| | Area Served | Usage | Used | System | System | System | System | |

Resources for County Engineers

- Agencies, Associations, & Organizations
 - ICEA Iowa County Engineers Association
 - NACE National Associations of County Engineers
 - ISAC Iowa State Association of Counties
 - NACo National Associations of Counties
 - InTrans Institution for Transportation (ISU)
 - Iowa LTAP Iowa Local Technical Assistance Program
 - National Concrete Pavement Technology Center
 - lowa DOT Office of Local Systems
 - ICPA
 - APAI
 - Iowa Highway Research Board
 - ICEA Service Bureau

<u>Iowa Highway Research Board (IHRB) Overview</u>

- 1949 Legislation established the Secondary Road Research Fund
 - 1 ½ % Farm-to-Market RUT
- Iowa Highway Research Board 1st meeting of the Board in 1950
 - 15 Member
 - 7 County Engineers
 - 4 Iowa DOT Staff
 - 2 City Engineer Representatives
 - 2 University Representatives ISU and U of I
- 1980 County Engineers endorsed a Secondary Roads Research Position
- 2016 DOT/ICEASB agreement made the SRRE position an employee of the Service Bureau

What is the Service Bureau?

The Iowa County Engineers Association Service Bureau (ICEASB) is a small, 28-E agreement inter-governmental agency serving Iowa's 99 county road departments.

Formed in 1998, ICEASB operates from office space sub-leased from the Iowa State Association of Counties.

It provides a variety of support, data and web-app services to lowa secondary road departments and by extension, to lowa DOT and the transportation community, via the Internet.

The Board of Directors, consisting of county engineers and county supervisors, sets policies and establishes budgets.

The ICEA Exec Board provides guidance on priority of projects and ICEA support issues.

CIT Committee provides periodic project review and technical feedback to help direct the look and feel of the web applications.

Dependencies and Resources

Independent Board of Directors - 28E (1998)

7 Voting Members

- 3 Supervisors
- 3 County Engineers ICEA Past President

Alternates for each by District

4 Associate Members
CIT Committee Chair
Local Systems Engineer
SRRE
Exec Dir

SB Board of Directors (Policy)

County

Engineers

Service Bureau

Iowa

County

Engineers

Association

(Advisory)

Iowa Code Section 312.3B CIT Committee (Technical)

DOT &

Transportation

Community

"... facilitate better roads and service to the public."

ICEASB provides a variety of support, data and customized web-app services to ICEA and Iowa secondary road departments, and by extension, to Iowa DOT and the transportation community, via the Internet.

Web-Based Tools

- News and Headlines
- Look up & Contact
- Q&A and Surveys
- Job Postings & Staff Roster
- Annual Report & GASB-34
- TPMS- Program & Budget
- Signs, Culverts, & Work Orders
- Local Letting & Notifications
- Road Closure Notifications
- Local Pay System
- Mapping Services
- Public-Facing Website
- Future Projects
 - TPMS 2020
 - OMS
 - GRAMS
 - IPAT

ICEA Service Bureau

Bob Gray

Web Developer



Drainage Area, Easy Map, Salary Survey, Users & Staff, Workplaces, Engineer Photo Map, Home, ICEOO Connect, Iowa County Roads, Logs, Lookup & Contact, Q & A, Road Notifications, Roads & Bridges, Work Orders, Mapping, OMS Time Tracking

Jenn Johnson

Web Developer



Surveys, TR608, Engineer History, ICEASB Staff, Local Letting Notice, Time Tracking User Interface

Tim Schommer

Web Developer



Annual Report, Committees, ICEA Alumni, GASB-34, Local Lettings, Job Postings, Legislative, People History, Prequalified Contractors, Staff Roster, Work Orders, Time Policies in OMS, SB Orientation

Brandy Thomason

Web Developer



Culverts, Downloads, Downloads, Local Pay, Signs (ICEA Mobile), Calendar, Headlines, Research, Rock-alyzer, Signs, Territory Marker, **OMS Policies**, **Equipment and Inventory**

Matthew Mathers

Operations Manager



Developed or worked on: ICEASB website, TPMS Development, TPMS Programming, basic Salary Survey database, Local letting notice tool, Road closure notice tool, surveys, system admin and it100. Sets up and maintains office network plus Internet connection.

Lindsey Schroeder

Grants Coordinator



Khyle Clute

SPR Research Engineer



Brian Moore

Secondary Roads Research Engineer



Assist and support ICEASB and ICEA as liaison with research, DOT Staff, and ICEA Exec Board and committees. Member of NACE Low Volume Road Committee, IHRB liaison, and TRB.

Danny Waid

Executive Director



General and business management, creation and design of products & services, user training and support, ad hoc assistant to ICEA Exec Board and committees as needed. Plans, defines, and oversees development of web applications.

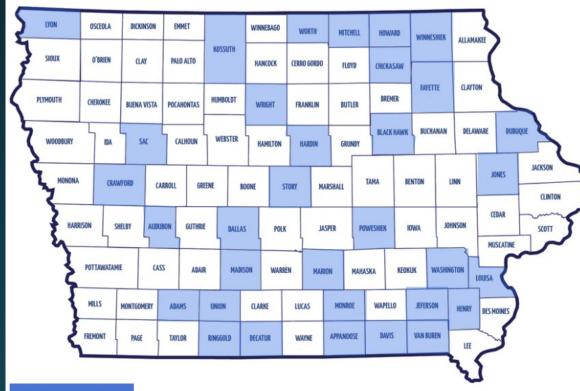
SB Public Facing Website



COUNTY 511 MAP

Although ICEA does not yet have state-wide coverage, this map offers access to information on road closures in a number of counties. Highlighted counties are currently reporting active restrictions due to projects, maintenance work, embargos and emergencies, along with detour routes. Click on a county to see its closures. Or click on the blue Statewide Summary View button to see the entire state. (Reminder: this site only shows county road restrictions and closures. Primary highway information can be found at 511ia.org)

If you'd like to receive automatic notifications of county road issues, click HERE. This will open a link that will allow you to subscribe to be notified whenever county road notifications are posted. You may also click the Subscribe link in the upper right corner of the statewide map.



STATEWIDE SUMMARY VIEW



"Coming together is a beginning. Keeping together is progress. Working together is success." --Henry Ford

"If everyone is moving forward together, then success takes care of itself." --Henry Ford

https://www.iowacountyroads.org/

Thank you!

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