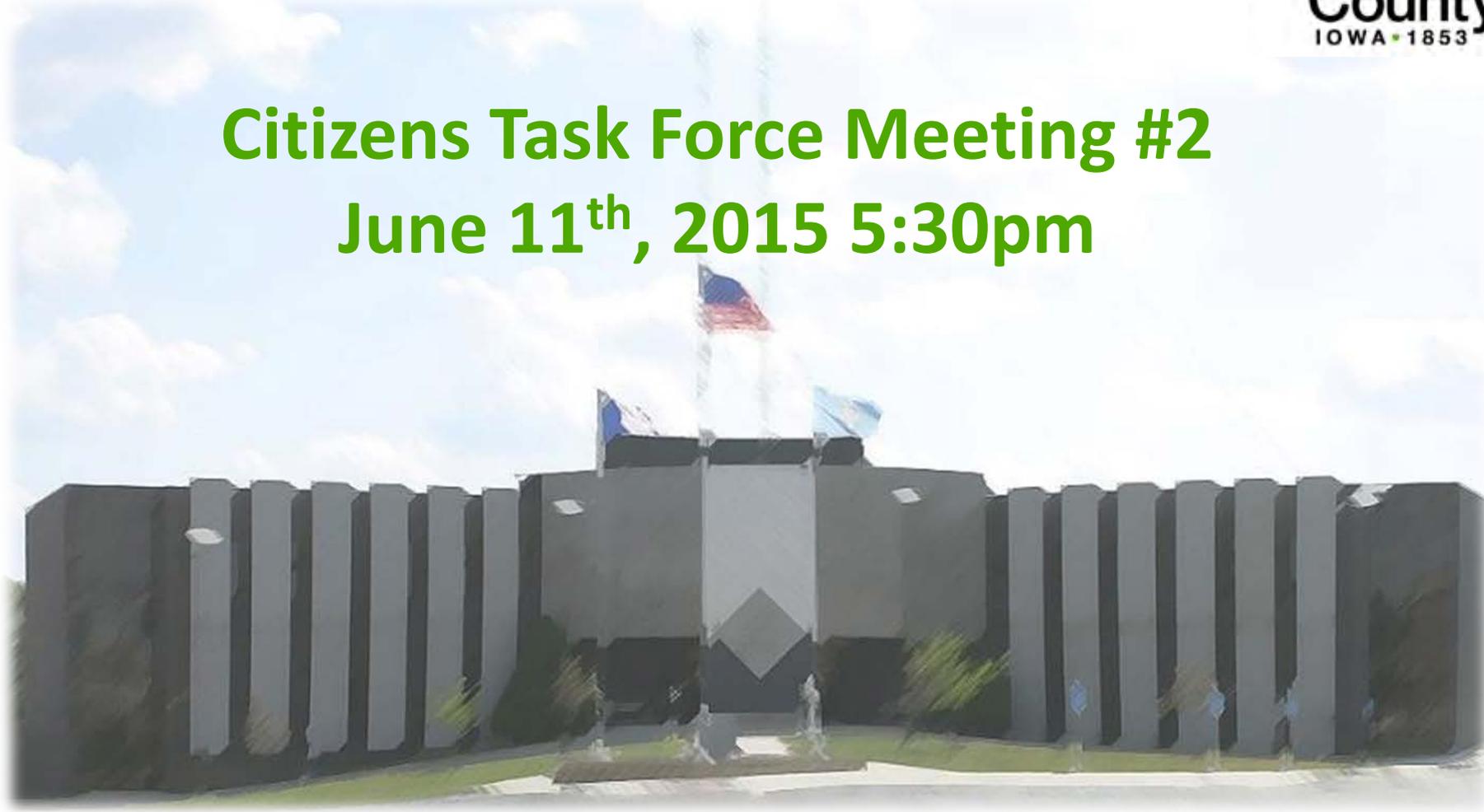


Story County  
Coordinated Long Range Plan  
From Cornerstone to Capstone  
Story County Comprehensive Plan



**Citizens Task Force Meeting #2**  
**June 11<sup>th</sup>, 2015 5:30pm**





# Meeting Agenda

- **C2C Project Schedule Review**
- Survey Status Update
- Community Issues and Opportunities Meetings
- Update on Existing Conditions Progress
- Goals Discussion

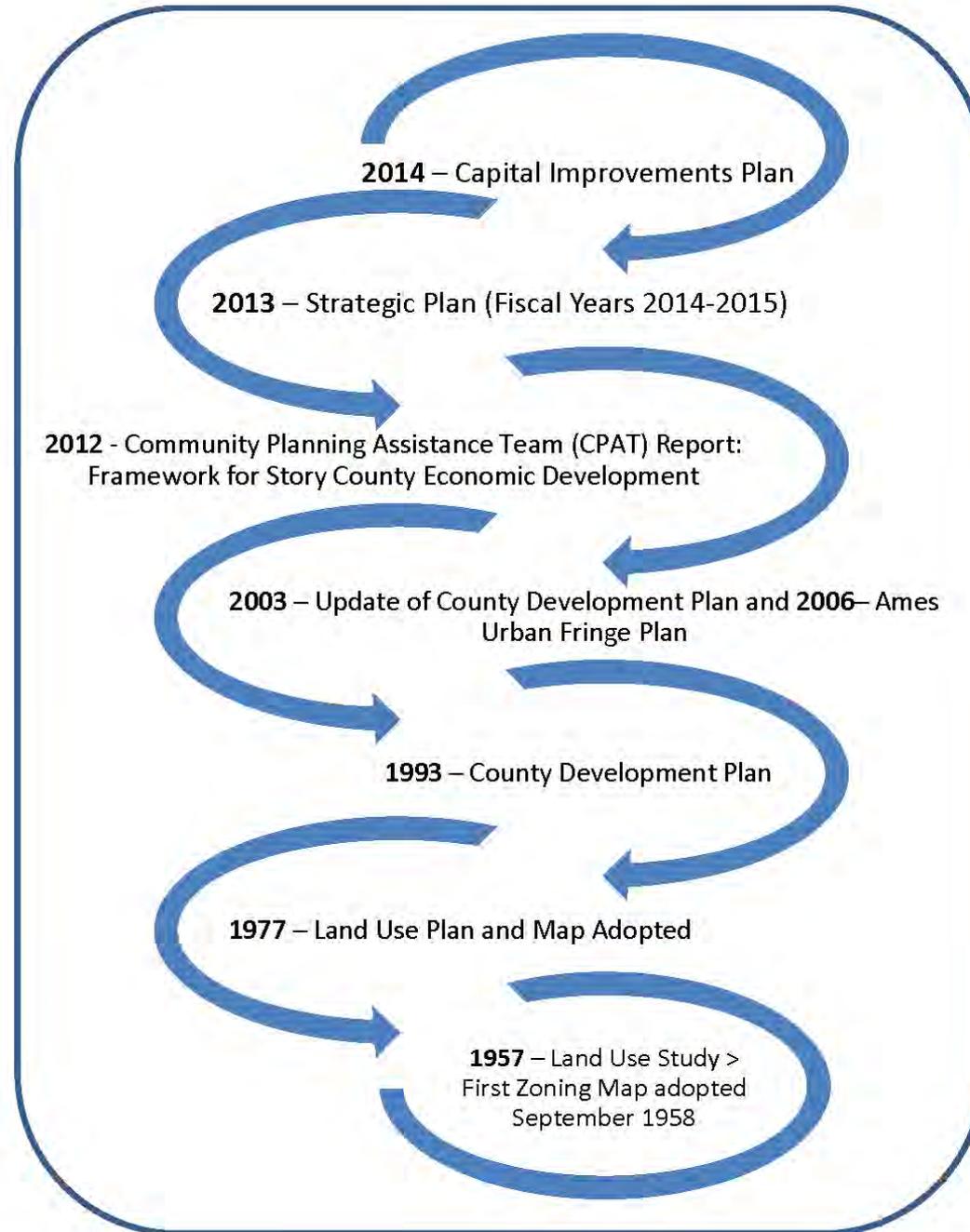
# From Cornerstone to Capstone

## *The C2C Project*



### **Story County Comprehensive Plan**

- *Vision and Goals*
- *Community, Social and Cultural Character*
- *Sustainability and Quality of Life Aspects*
- *Housing*
- *Economic Development*
- *Transportation*
- *Service, Community Facilities and Infrastructure*
- *Environment and Natural Resources*
- *Land Use (Existing and Future)*
- *Fringe Area Planning and Intergovernmental Cooperation.*



**County Outreach and Special Projects Manager**

**Story County Administration**

900 6th Street

Nevada, Iowa 50201

**Phone:** 515-382-7247

**Email:** [lharter@storycountyia.gov](mailto:lharter@storycountyia.gov)

# C2C Schedule and Tasks By Month



Month Name	Calendar Year	Fiscal Year	C2C Milestone Task(s)	MSA Team Detailed Work and Meeting Activities
March	2015	2015	Visioning	Begin Review of Existing Plans, Including Goals and Actions and Review C2C Visioning Materials
April	2015	2015	Goals Development	C2C Project Kickoff Meetings, Website Development & Launch, Existing Plan(s) Review and Goal Coordination, Begin Existing Conditions Analysis and Survey Development.
May	2015	2015		Survey Deployment, Planning and Zoning Commission Issues and Opportunities Identification Meeting, Community Issues and Opportunities Identification Meetings (4 meetings Across County), Develop Vision Based Goals, and Begin Market Analysis.
June	2015	2015	Research & Analysis and Scenario Development and Review	Complete Existing Conditions Analysis, Complete Market Analysis, Begin Developing Future land Use Scenario(s), Assist with County Conservation Planning (Natural Resources and Water Resources Components) and C2C Project Team and Task Force Meeting to Finalize Goals
July	2015	2016		C2C Project Team and Task Force Meeting to Review Existing Conditions, Market Analysis and Further Develop Future Land Use Scenarios

# C2C Schedule and Tasks By Month Continued



Month Name	Calendar Year	Fiscal Year	C2C Milestone Task(s)	MSA Team Detailed Work and Meeting Activities
August	2015	2016	Plan Development	Complete Partial Draft and Partial Draft Presentations to Planning & Zoning Commission and County Board of Supervisors
September	2015	2016		C2C Project Team and Task Force Meeting and Finalizing Future Land Use Scenarios
October	2016	2016		C2C Project Team and Task Force Meetings to Review Draft Plan
November	2016	2016		Complete Final Draft Plan and Present to Planning & Zoning Commission and County Board of Supervisors
December	2016	2016		<i>Break for Holidays - No Scheduled Meetings</i>
January	2016	2016		Plan Review and Adoption
February	2016	2016	C2C Project Team and Task Force Meeting: Final Review and Recommendations	
March	2016	2016	Planning and Zoning Commission Work Session to Review Plan	
April	2016	2016	Planning and Zoning Commission Final Review, Hearing and Recommendation to Board of Supervisors	
May	2016	2016	Board of Supervisors Work Session to Review Plan	
June	2016	2016	Board of Supervisors Public Hearing and Consideration for Adoption	

# C2CPLAN.COM



Desktop/Laptop



Tablet/Phone



# Responsibilities of the Citizens Task Force

- Represent various stakeholder groups, communities, institutions and organizations in the C2C planning process.
- Gather community input from across the County and assist in the development of the C2C Plan.
- Working with the Planning and Development Department, C2C Project Team, Planning and Zoning Commission, and the Consultant Team to prepare the C2C Plan.



# Meeting Agenda

- C2C Project Schedule Review
- **Survey Status Update**
- Community Issues and Opportunities Meetings
- Update on Existing Conditions Progress
- Goals Discussion

# Survey Review and Deployment



- SurveyMonkey and Print copies available at City Halls –dropped off last week along with flyers for public input meetings.
- <https://www.surveymonkey.com/s/C2CPLANSURVEY>
- Email, Facebook (Cities and County Sites), Word of Mouth -> [c2cplan.com](http://c2cplan.com)

**Quality of Life**

**1. What are the three most important reasons you and your family choose to live in Story County?**

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Quality Neighborhood	<input type="checkbox"/> Low Crime Rate
<input type="checkbox"/> Near Job	<input type="checkbox"/> Cost of Home	<input type="checkbox"/> Small Town / Rural Atmosphere
<input type="checkbox"/> Appearance of Homes	<input type="checkbox"/> Quality Schools	<input type="checkbox"/> Natural Beauty
<input type="checkbox"/> Property Tax Rates	<input type="checkbox"/> Raised Here	
<input type="checkbox"/> Quality of Public Services	<input type="checkbox"/> Recreational Opportunities	
<input type="checkbox"/> Other (please specify)		

Comments

**2. Overall, how would you rate the quality of life in Story County?**

<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	<input type="checkbox"/> Not Sure
------------------------------------	-------------------------------	-------------------------------	-------------------------------	-----------------------------------

Comments

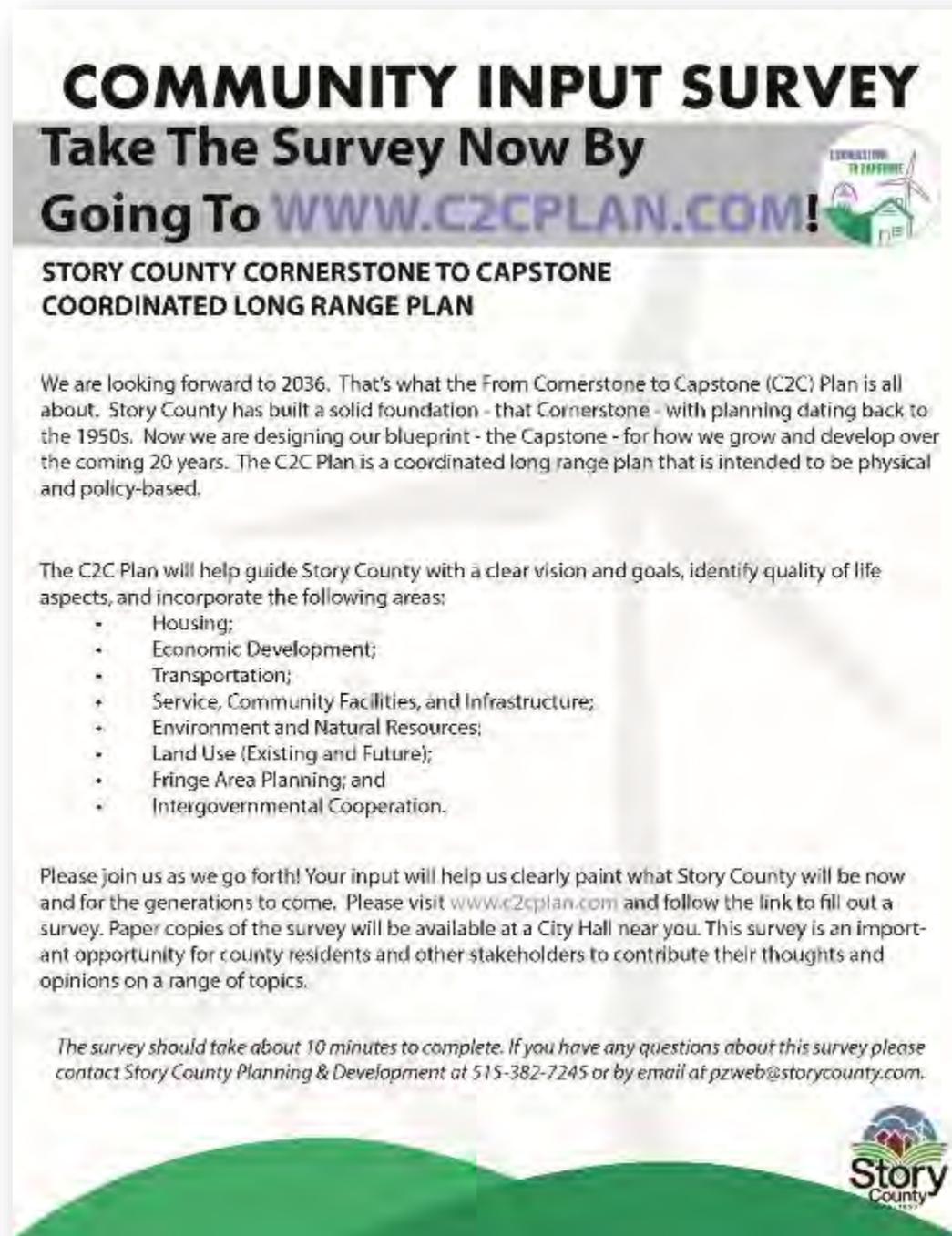
**3. During the next five years, I expect that the quality of life in the county will:**

<input type="checkbox"/> Improve	<input type="checkbox"/> Stay the Same	<input type="checkbox"/> Worsen
----------------------------------	--	---------------------------------

Comments

# Survey Flyer and Current Results

- Open until **July 8<sup>th</sup>** - After Community Meetings
- Handouts at community meetings with web address
- Hard copies and laptop(s) at community meetings



**COMMUNITY INPUT SURVEY**  
**Take The Survey Now By**  
**Going To [WWW.C2CPLAN.COM](http://WWW.C2CPLAN.COM)!**

**STORY COUNTY CORNERSTONE TO CAPSTONE  
COORDINATED LONG RANGE PLAN**

We are looking forward to 2036. That's what the From Cornerstone to Capstone (C2C) Plan is all about. Story County has built a solid foundation - that Cornerstone - with planning dating back to the 1950s. Now we are designing our blueprint - the Capstone - for how we grow and develop over the coming 20 years. The C2C Plan is a coordinated long range plan that is intended to be physical and policy-based.

The C2C Plan will help guide Story County with a clear vision and goals, identify quality of life aspects, and incorporate the following areas:

- Housing;
- Economic Development;
- Transportation;
- Service, Community Facilities, and Infrastructure;
- Environment and Natural Resources;
- Land Use (Existing and Future);
- Fringe Area Planning; and
- Intergovernmental Cooperation.

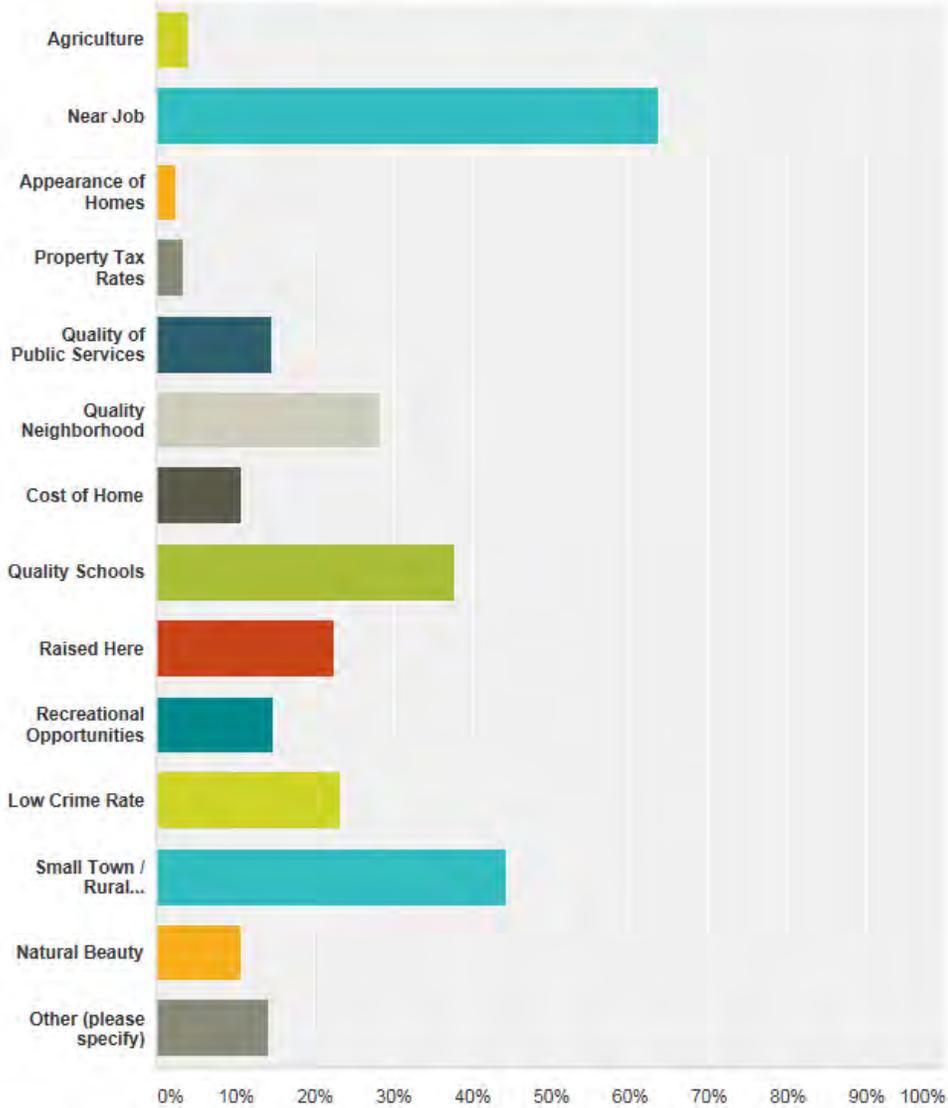
Please join us as we go forth! Your input will help us clearly paint what Story County will be now and for the generations to come. Please visit [www.c2cplan.com](http://www.c2cplan.com) and follow the link to fill out a survey. Paper copies of the survey will be available at a City Hall near you. This survey is an important opportunity for county residents and other stakeholders to contribute their thoughts and opinions on a range of topics.

*The survey should take about 10 minutes to complete. If you have any questions about this survey please contact Story County Planning & Development at 515-382-7245 or by email at [pzweb@storycounty.com](mailto:pzweb@storycounty.com).*



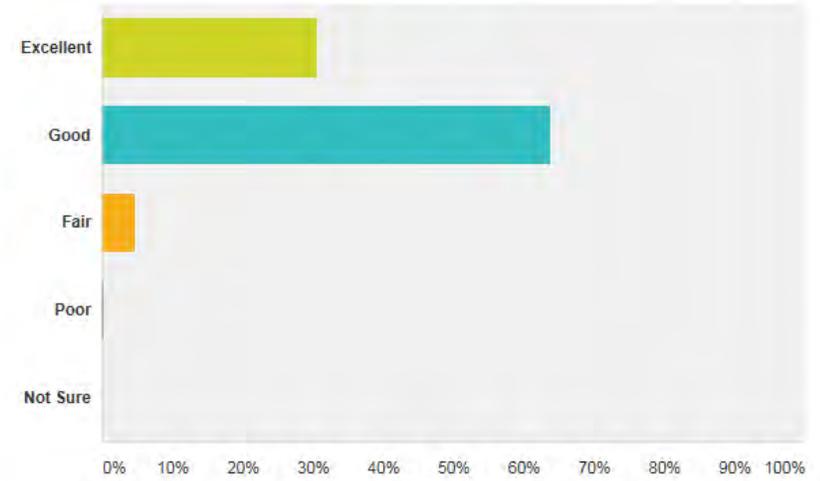
### What are the three most important reasons you and your family choose to live and/or work in Story County?

Answered: 479 Skipped: 6



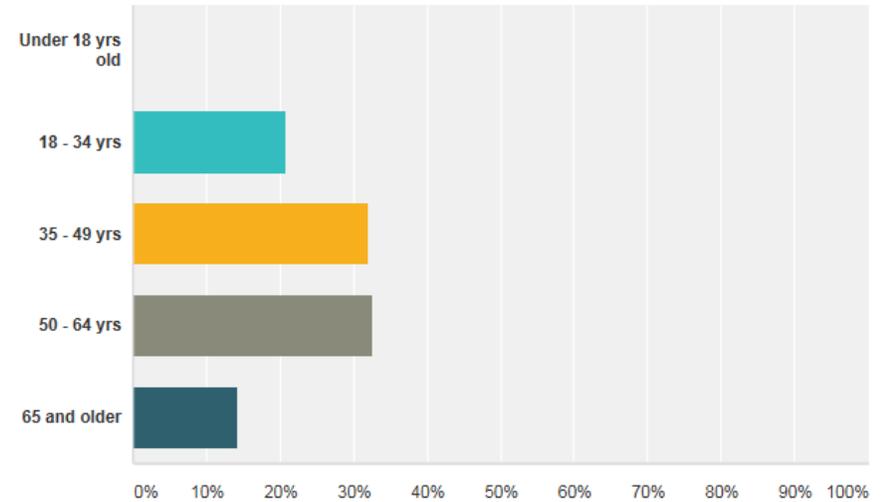
### Overall, how would you rate the quality of life in Story County?

Answered: 476 Skipped: 9



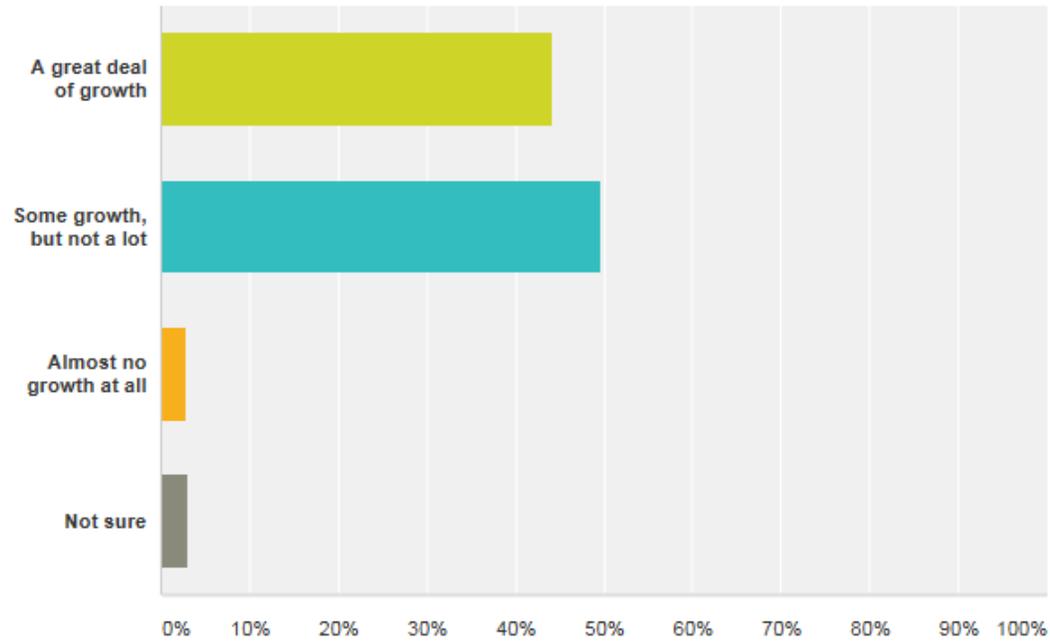
### Your age (person filling out the survey)

Answered: 387 Skipped: 98



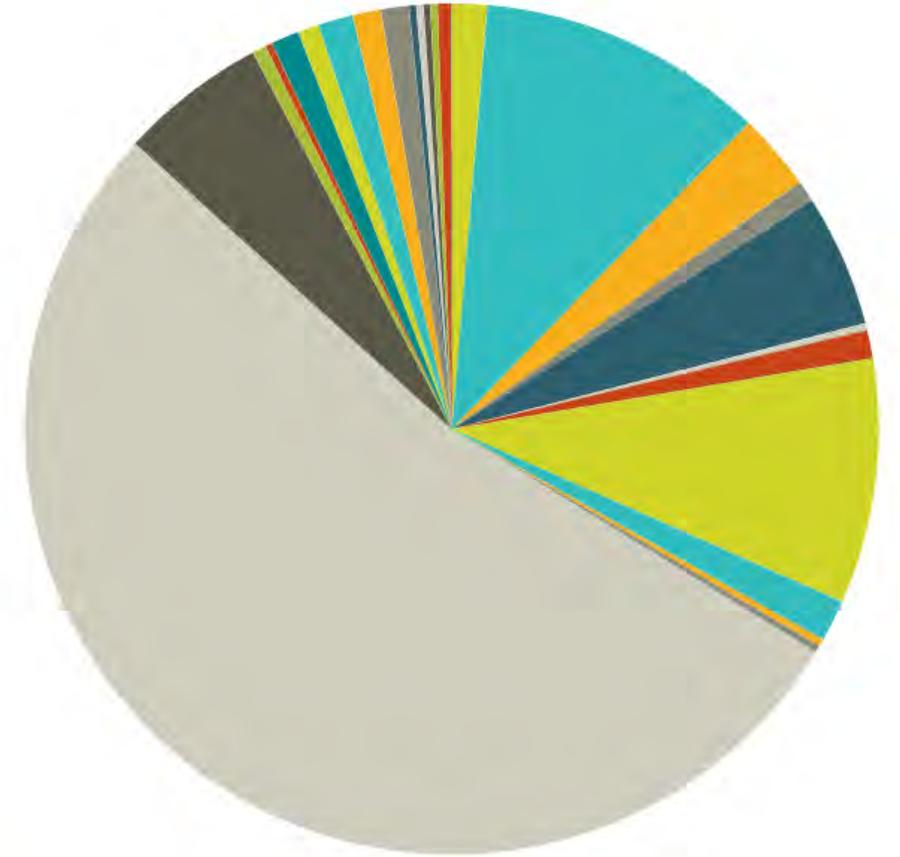
### Over the past five years, how much growth do you think Story County has experienced?

Answered: 388 Skipped: 97



### Where in Story County do you live?

Answered: 376 Skipped: 109



- In Maxwell
- In Nevada
- Near Nevada
- Near Maxwell
- In Roland
- Near Roland
- In Sheldahl
- Near Sheldahl
- In Slater
- Near Slater
- In Story City
- Near Story City
- In Zearing
- Near Zearing
- Other rural area in Story County
- In Ames
- Near Ames
- In Cambridge
- Near Cambridge
- In Colo
- Near Colo
- In Gilbert
- Near Gilbert
- In Huxley
- Near Huxley
- In Kelley
- Near Kelley
- Other rural area outside Story County
- In Collins
- Near Collins



# Meeting Agenda

- C2C Project Schedule Review
- Survey Status Update
- **Community Issues and Opportunities Meetings**
- Update on Existing Conditions Progress
- Goals Discussion

# Community Input Meetings



**COMMUNITY INPUT MEETING**  
**06.30.2015**

STORY COUNTY CORNERSTONE TO CAPSTONE  
COORDINATED LONG RANGE PLAN

**TIME** 6PM to 7PM

**LOCATION** Story City Public Library 503 Broad St

We are looking forward to 2036. That's what the From Cornerstone to Capstone (C2C) Plan is all about. Story County has built a solid foundation - that Cornerstone - with planning dating back to the 1950s. Now we are designing our blueprint - the Capstone - for how we grow and develop over the coming 20 years. The C2C Plan is a coordinated long range plan that is intended to be physical and policy-based.

The C2C Plan will help guide Story County with a clear vision and goals, identify quality of life aspects, and incorporate the following areas:

- Housing;
- Economic Development;
- Transportation;
- Service, Community Facilities, and Infrastructure;
- Environment and Natural Resources;
- Land Use (Existing and Future);
- Fringe Area Planning; and
- Intergovernmental Cooperation.

Please join us at one of four regional Community Input Meetings on Tuesday June 30, 2015 in Story City as we go forth! Your input will help us clearly paint what Story County will be now and for the generations to come.

For more information on this process and to sign up for project updates please visit the C2C Plan website:  
[www.c2cplan.com](http://www.c2cplan.com)



# Meeting Agenda

- C2C Project Schedule Review
- Survey Status Update
- Community Issues and Opportunities Meetings
- **Update on Existing Conditions Progress**
- Goals Discussion



# Existing Conditions

Work on existing conditions Appendix is underway

- County – Existing Land Use
- MSA – Demographics, Community Facilities, Housing, Infrastructure & Utilities, Transportation, Etc.
- Confluence – Natural Resources
- DesignWorkshop – Market Analysis for Competitiveness and Future Land Use Planning



# Population

## Population Trends & Projections

	Story County	Iowa
1980 Actual	72,326	2,913,808
1990 Actual	74,252	2,776,755
2000 Actual	79,981	2,926,324
2005 Proj.	81,852	2,951,775
2010 Actual	89,542	3,046,355
2015 Proj.	92,300	3,097,663
2020 Proj.	96,451	3,172,237
2025 Proj.	100,689	3,249,751
2030 Proj.	104,962	3,328,308
2035 Proj.	109,258	3,407,575

Source: Woods & Poole Economics, Inc. & Census

Story County to grow by 22% (19,716) residents in 2035 versus the State of Iowa growing at 11.8% by 2035.

## Age & Sex 2010

	Story County		Iowa	
	Number	Percent	Number	Percent
Male	28,715	49.1%	1,508,319	49.5%
Female	29,783	50.9%	1,538,036	50.5%
Under 18	15,953	17.8%	727,993	23.9%
18 & over	73,589	82.2%	2,318,362	76.1%
20 - 24	18,846	21.0%	878,964	6.9%
25 - 34	12,769	14.3%	382,583	12.6%
35 - 49	12,845	14.3%	581,030	19.1%
50 - 64	13,066	14.6%	595,994	19.6%
65 & over	8,945	10.0%	452,888	14.9%
<b>Totals</b>	<b>89,542</b>	<b>100%</b>	<b>3,046,355</b>	<b>100%</b>

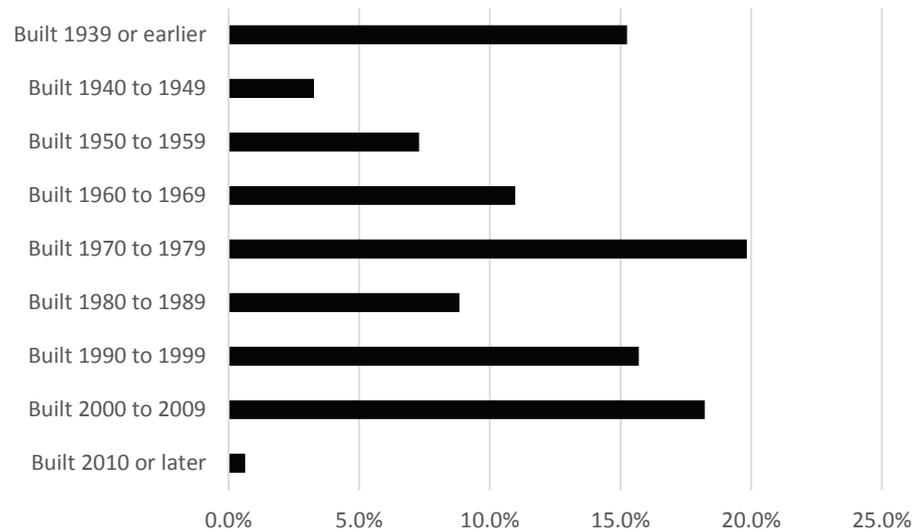
## Municipal Population Trends

Population by Municipality	1990	2000	2010	% Change (1990-2010)
Ames	47,198	50,731	58,965	24.9%
Cambridge	714	819	829	16.1%
Collins	455	499	495	8.8%
Colo	771	868	876	13.6%
Gilbert	796	987	1,082	35.9%
Huxley	2,047	2,316	3,317	62.0%
Kelley	246	300	309	25.6%
Maxwell	788	807	920	16.8%
McCallsburg	292	318	333	14.0%
Nevada	6,009	6,658	6,798	13.1%
Roland	1,035	1,324	1,284	24.1%
Sheldahl	315	336	319	1.3%
Slater	1,268	1,306	1,489	17.4%
Story City	2,959	3,228	3,431	16.0%
Zearing	614	617	554	-9.8%
<i>Townships (rural)</i>	<i>8,745</i>	<i>8,867</i>	<i>8,541</i>	<i>-2.3%</i>
<b>COUNTY TOTAL</b>	<b>74,252</b>	<b>79,981</b>	<b>89,542</b>	<b>20.6%</b>
Urban Area Population	65,507	71,114	81,001	24%
Urban Share Percent	88%	89%	90%	3%

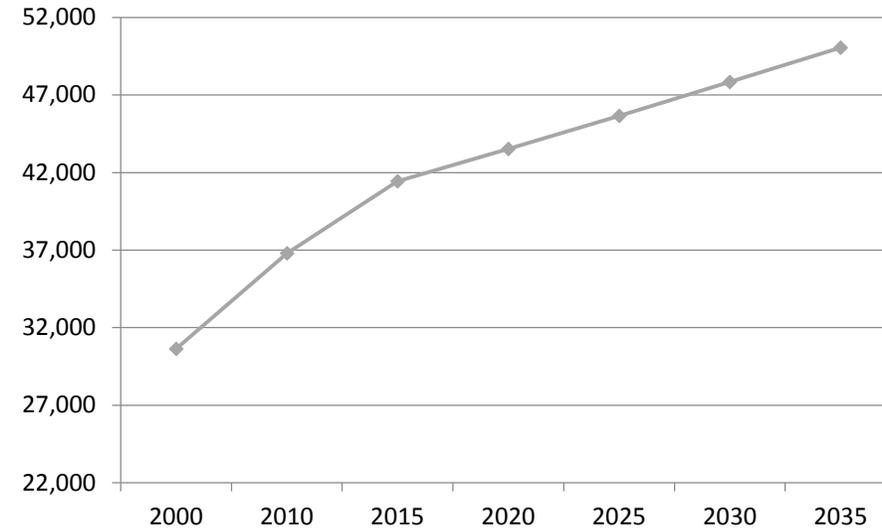


# Housing

## Year Structure Built, 2009-2013



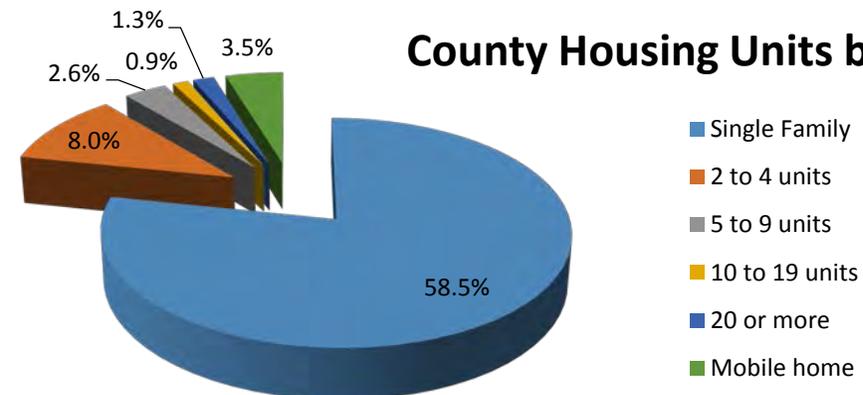
## Story County Housing Projection



## Story County Occupancy

	1990		2000		2010	
	Number	Percent	Number	Percent	Number	Percent
Owner Occupied	14,515	56.0%	17,125	58.3%	19,372	52.4%
Renter Occupied	11,426	44.0%	12,258	41.7%	15,824	42.8%
Vacant	906	5.3%	1,247	4.3%	1,780	4.8%
Homeowners Vacancy Rate	---	1.2%	---	1.5%	---	1.5%
Rental Vacancy Rate	---	2.7%	---	4.1%	---	2.2%
<b>TOTAL</b>	<b>26,847</b>		<b>30,630</b>		<b>36,976</b>	

## County Housing Units by Type





# Economic Indicators

Commuting Time to Work, 2009 - 2013 Avg.	Story Co	Iowa
Less than 10 minutes	23.2%	25.1%
10 to 14 minutes	25.4%	18.9%
15 to 19 minutes	17.6%	16.5%
20 to 24 minutes	11.6%	13.8%
25 to 29 minutes	3.4%	5.7%
30 to 34 minutes	6.6%	8.7%
35 to 44 minutes	3.9%	4.0%
45 to 59 minutes	5.9%	3.8%
60 or more minutes	2.3%	3.5%
Mean travel time to work (minutes)	17.8	18.8

Source: ACS 2009-2013

Place of Work, 2009 - 2013 Avg.	
Worked in state of residence:	99.1%
Worked in county of residence	80.2%
Worked outside county of residence	18.9%
Worked outside state of residence	0.9%

Source: ACS

		Avg. 2009-2013
Story County	Per Capita	\$25,986
	Median Family	\$76,860
	Median Household	\$50,516
	<i>Below Poverty</i>	6.2%
Iowa	Per Capita	\$27,027
	Median Family	\$65,802
	Median Household	\$51,843
	<i>Below Poverty</i>	8.1%

Source: ACS, Census Bureau

Educational Attainment*, 2009 - 2013 Avg.	Story County	Iowa
HS Graduate	95.5%	91.0%
Some College	18.9%	18.9%
Associate's Degree	1.1%	1.1%
Bachelor's Degree	1.1%	1.1%
Graduate/Prof. Degree	1.1%	1.1%
HS or Higher	95.5%	91.0%

Source: ACS, \*Population 25 and over



# Economic Indicators *continued*

Employment Status	Story County	Iowa
In Labor Force (2000)	46,694	1,556,581
Unemployment Rate	4.4%	4.2%
In Labor Force (ACS 2009-2013)	52,274	1,650,140
Unemployment Rate	6.2%	5.8%

Source: Census Data

Class of Worker	Story County	Iowa
Private wage and salary workers	65.8%	79.0%
Government workers	30.2%	14.0%
Self-employed in own not incorporated business workers	4.0%	6.8%
Unpaid family workers	0.1%	0.2%

Source: American Community Survey 2009-2013

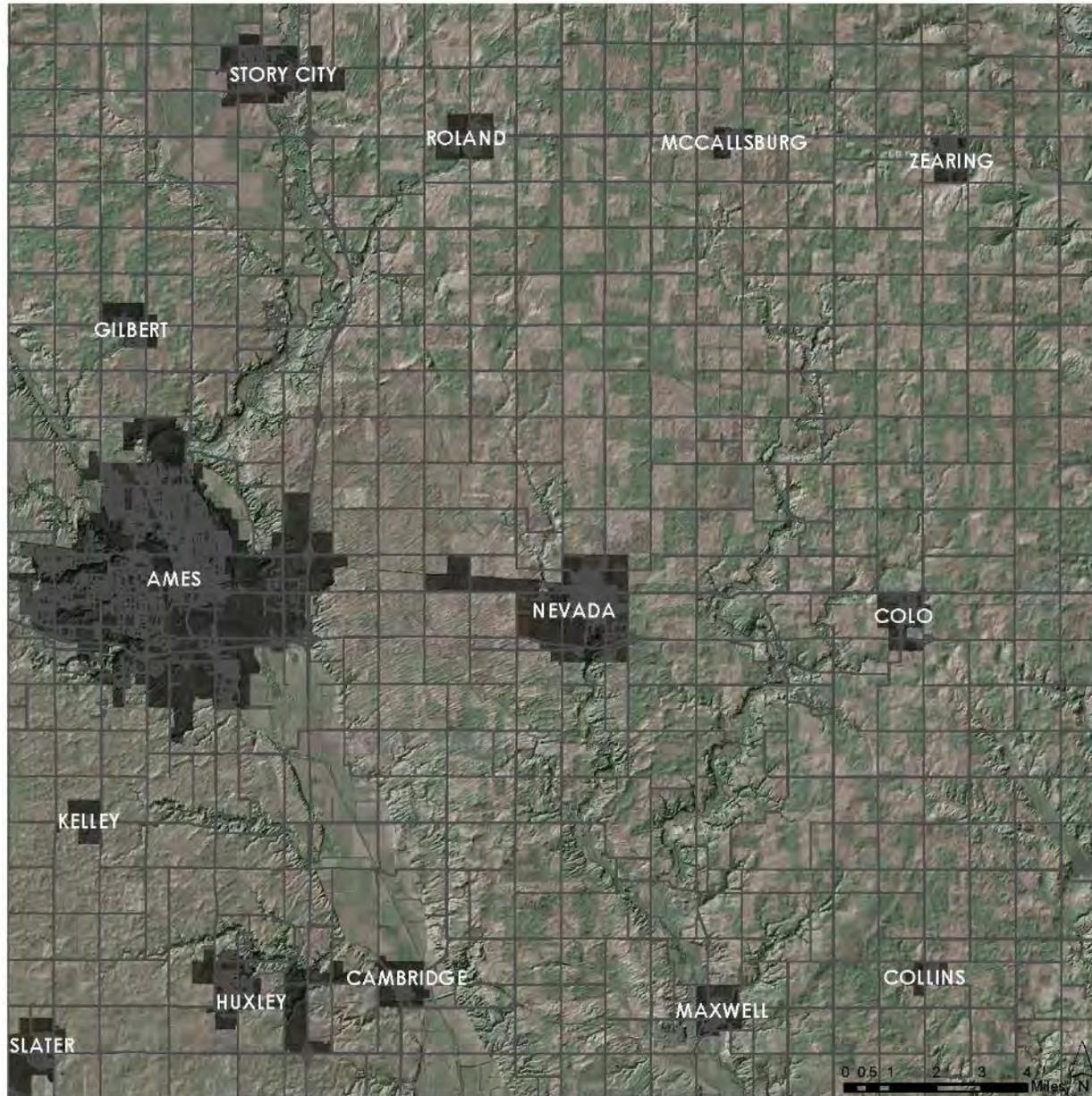
Occupations, 2009 - 2013 Avg	Story County	Iowa
Management, business, science, and arts occupations	44.4%	34.0%
Service occupations	16.6%	16.7%
Sales and office occupations	21.3%	23.9%
Natural resources, construction, and maintenance occupations	7.4%	9.4%
Production, transportation, and material moving occupations	10.3%	16.0%

Source: American Community Survey

Industry, 2009 - 2013 Avg	Story County	Iowa
Agriculture, forestry, fishing and hunting, and mining	3.0%	4.0%
Construction	4.8%	6.1%
Manufacturing	10.2%	14.7%
Wholesale trade	1.3%	3.0%
Retail trade	9.5%	11.7%
Transportation and warehousing, and utilities	2.6%	4.6%
Information	2.1%	1.9%
Finance and insurance, and real estate and rental and leasing	4.8%	7.6%
Professional, scientific, and management, and administrative and waste management services	7.4%	7.0%
Educational services, and health care and social assistance	36.5%	24.1%
Arts, entertainment, and recreation, and accommodation and food services	8.9%	7.6%
Other services, except public administration	4.1%	4.4%
Public administration	4.7%	3.3%

Source: ACS

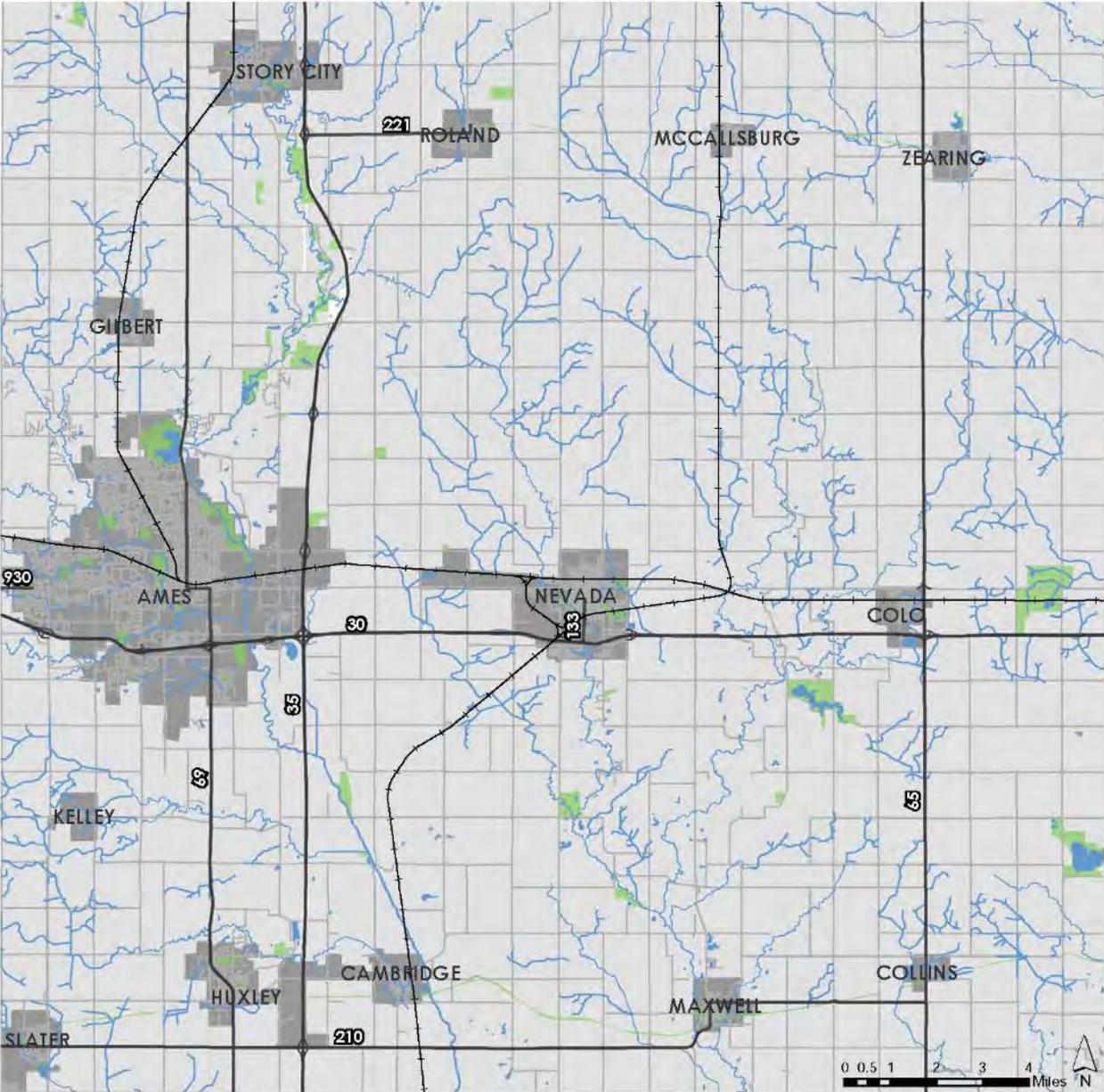
# MAP 1 | STORY COUNTY CITY ANNEXATION AND LAND AREA MAP



- Legend
- Story County
  - City Limits
  - / Roads

GIS Data Sources:  
Story County GIS Coordinator, Matt Boeck  
Iowa Department of Natural Resources GIS Library (NRGIS)





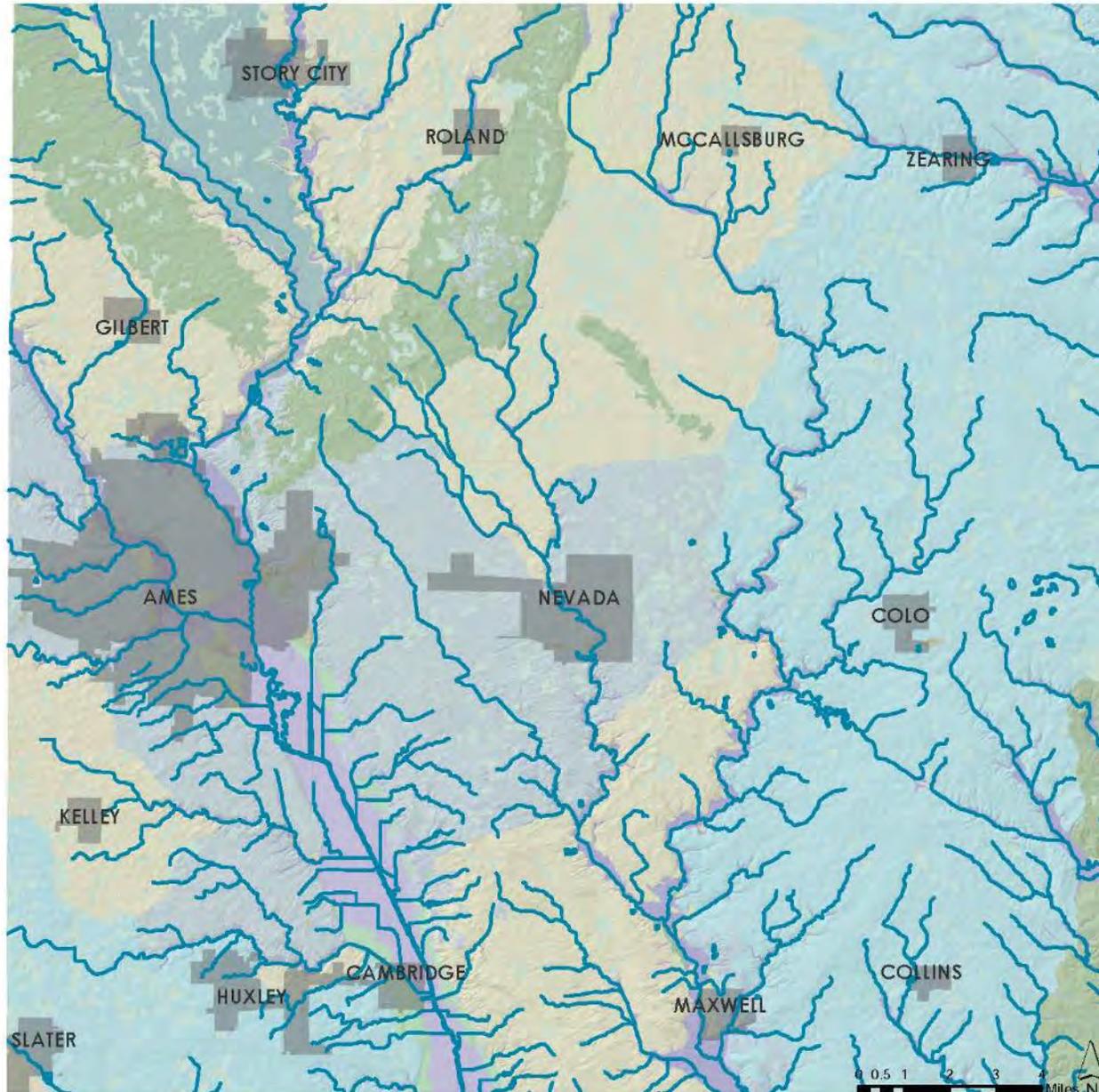
- Legend**
- Rivers and Streams
  - Parks and Green Space
  - Story County
  - Roads
  - City Boundaries
  - Highways
  - Railroad



GIS Data Sources:  
 Story County GIS Coordinator, Matt Boeck  
 Iowa Department of Natural Resources GIS Library (NRGIS)



# MAP 3 | STORY COUNTY GEOLOGY MAP



## Legend

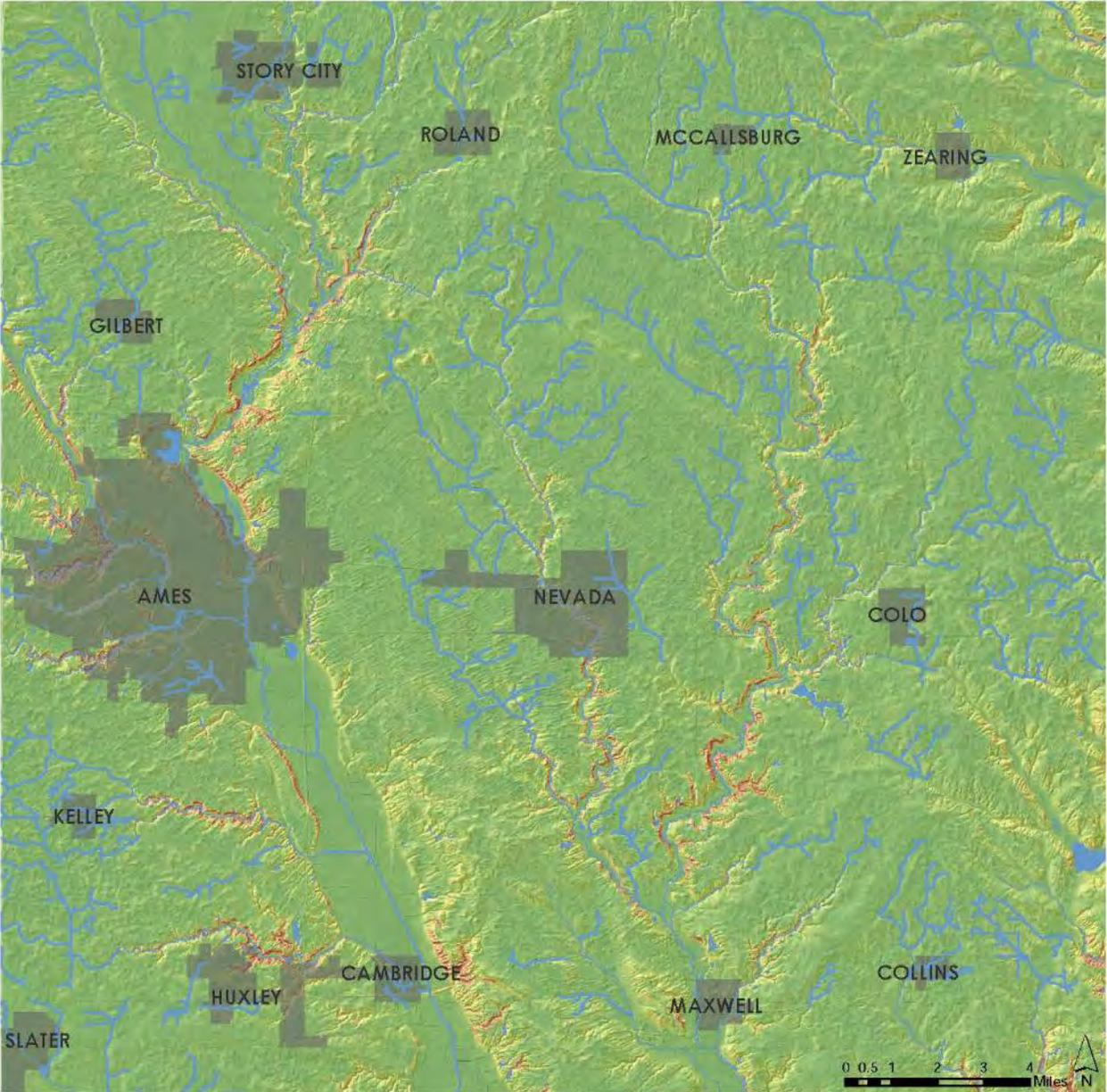
- Rivers and Streams
- Depressions
- Alluvium
- Eolian Sand
- Fill
- High Terrace
- Lake Plain
- Outwash
- Outwash/Bedrock
- Pits and Quarries
- Thick Alluvium
- Till Plain
- Till Plain with aligned-elongated ridge forms
- Till Plain with elongated ridge forms
- Till Ridge
- Till Water
- City Boundaries

## GIS Data Sources:

Story County GIS Coordinator, Matt Boeck  
Iowa Department of Natural Resources GIS Library (NRGIS)



MAP 4 | STORY COUNTY SLOPE ANALYSIS MAP



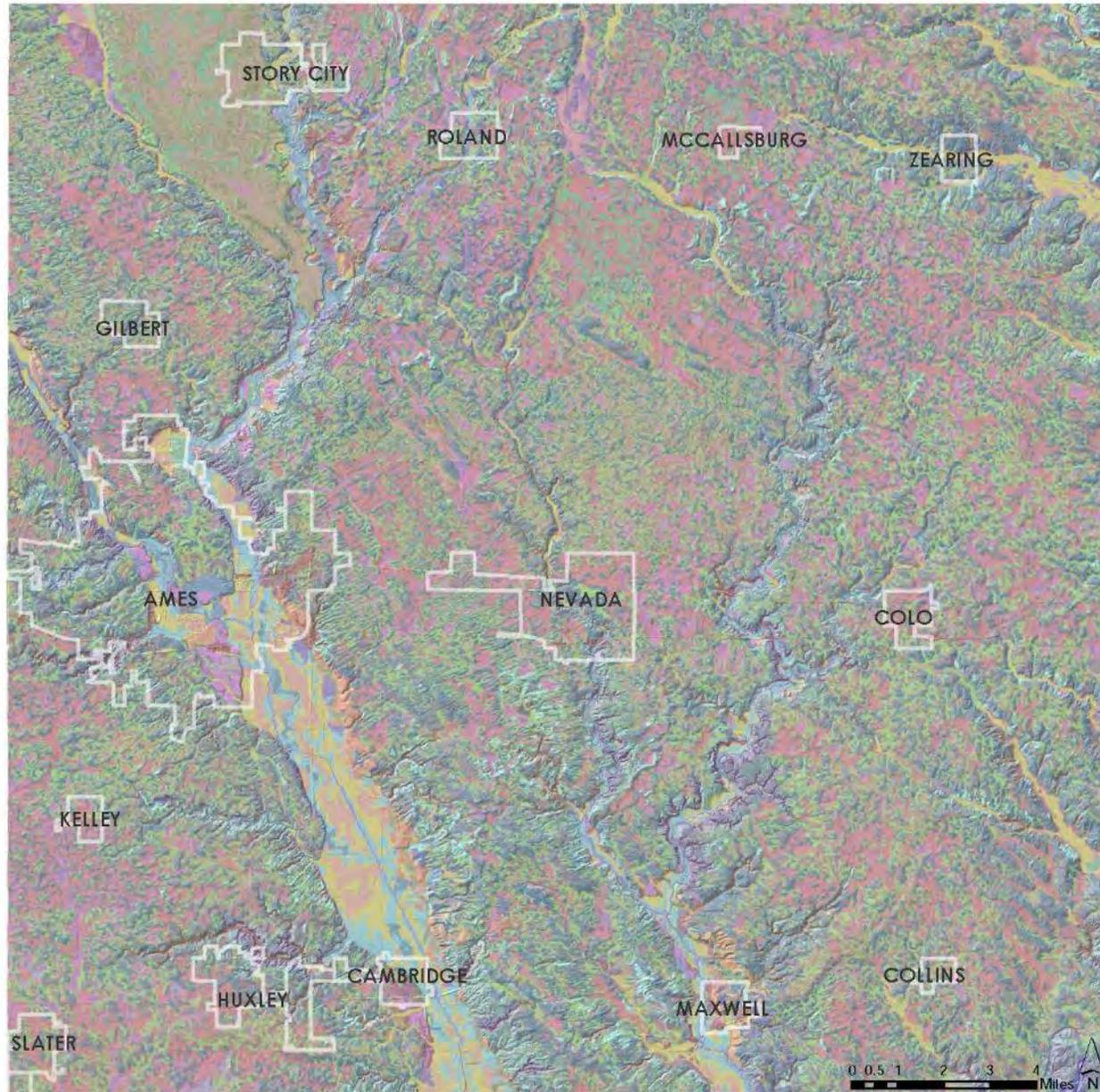
- Legend**
- Rivers and Streams
  - City Boundaries
  - Low Slope
  - Moderate Slope
  - Steep Slope - Highly Erodible



GIS Data Sources:  
Story County GIS Coordinator, Matt Boeck  
Iowa Department of Natural Resources GIS Library (NRGIS)



# MAP 5 | STORY COUNTY SOIL TYPES MAP



## Legend of Soil Types

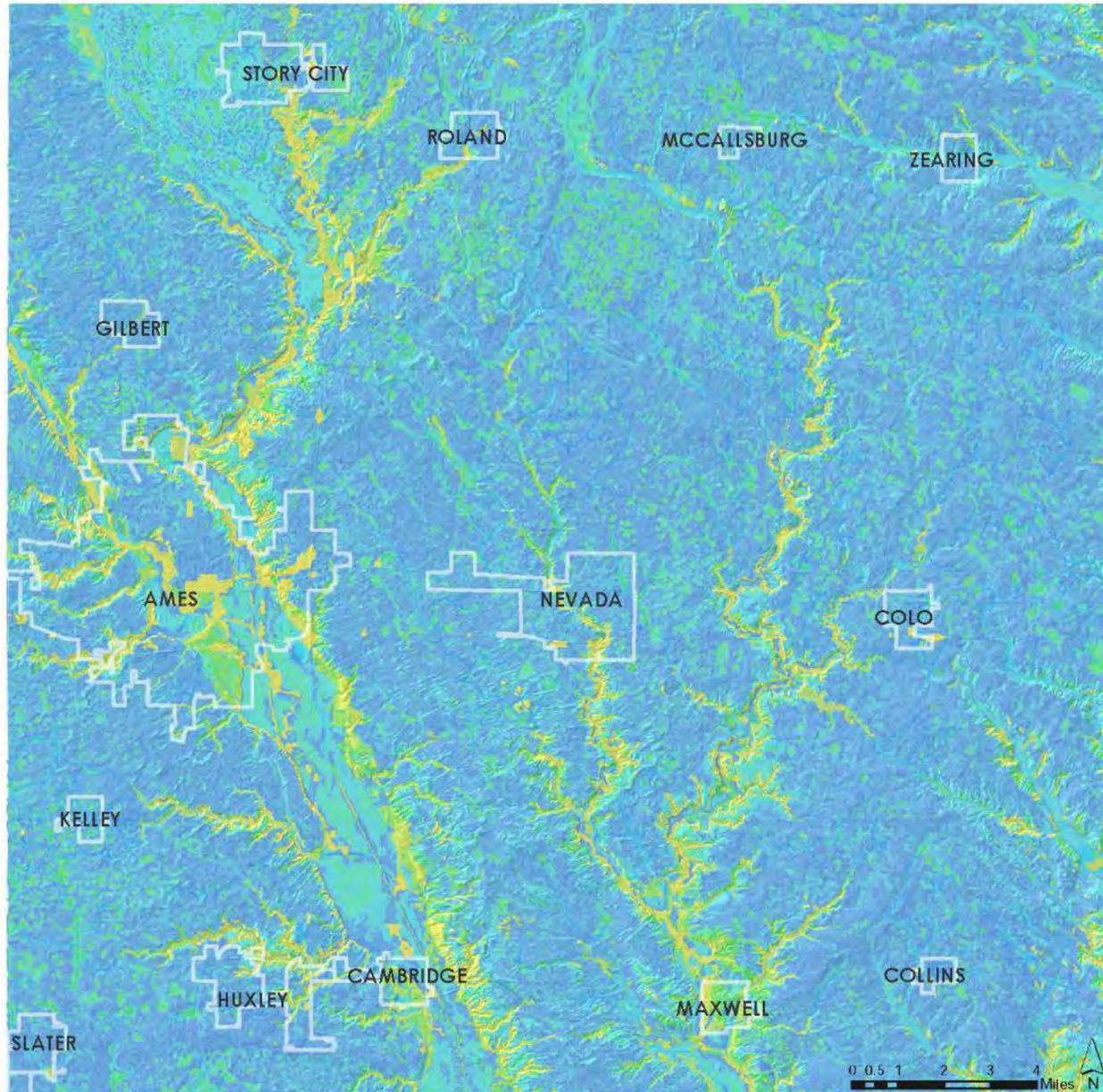
- |                     |                     |
|---------------------|---------------------|
| □ City Boundaries   | ■ Ottosen           |
| ■ Ankeny            | ■ Palms             |
| ■ Biscay            | ■ Pits Clay         |
| ■ Bode              | ■ Pits Gravel       |
| ■ Canisteo          | ■ Pits Quarry       |
| ■ Clarion           | ■ River             |
| ■ Clarion-Storden   | ■ Rolfe             |
| ■ Coland            | ■ Sparta            |
| ■ Coland-Terril     | ■ Spillville        |
| ■ Cordova           | ■ Spillville-Coland |
| ■ Cylinder 24-32"   | ■ Storden           |
| ■ Cylinder 33-40"   | ■ Talcot            |
| ■ Dam               | ■ Terril            |
| ■ Dickinson         | ■ Urban Land        |
| ■ Estherville       | ■ Wacousta          |
| ■ Farrar            | ■ Wacousta          |
| ■ Flagler           | ■ Waukee            |
| ■ Hanlon            | ■ Webster           |
| ■ Hanlon-Spillville | ■ Zenor             |
| ■ Harps             | ■ Zook              |
| ■ Harps-Okoboji     |                     |
| ■ Hayden            |                     |
| ■ Hayden-Storden    |                     |
| ■ Kossuth           |                     |
| ■ Lester            |                     |
| ■ Lindley           |                     |
| ■ Nicollet          |                     |
| ■ Okoboji           |                     |
| ■ Orthents Loamy    |                     |
| ■ Orthents Sandy    |                     |

### GIS Data Sources:

Story County GIS Coordinator, Matt Boeck  
Iowa Department of Natural Resources GIS Library (NRGIS)



# MAP 6 | STORY COUNTY SOIL-BASED CORN YIELD MAP

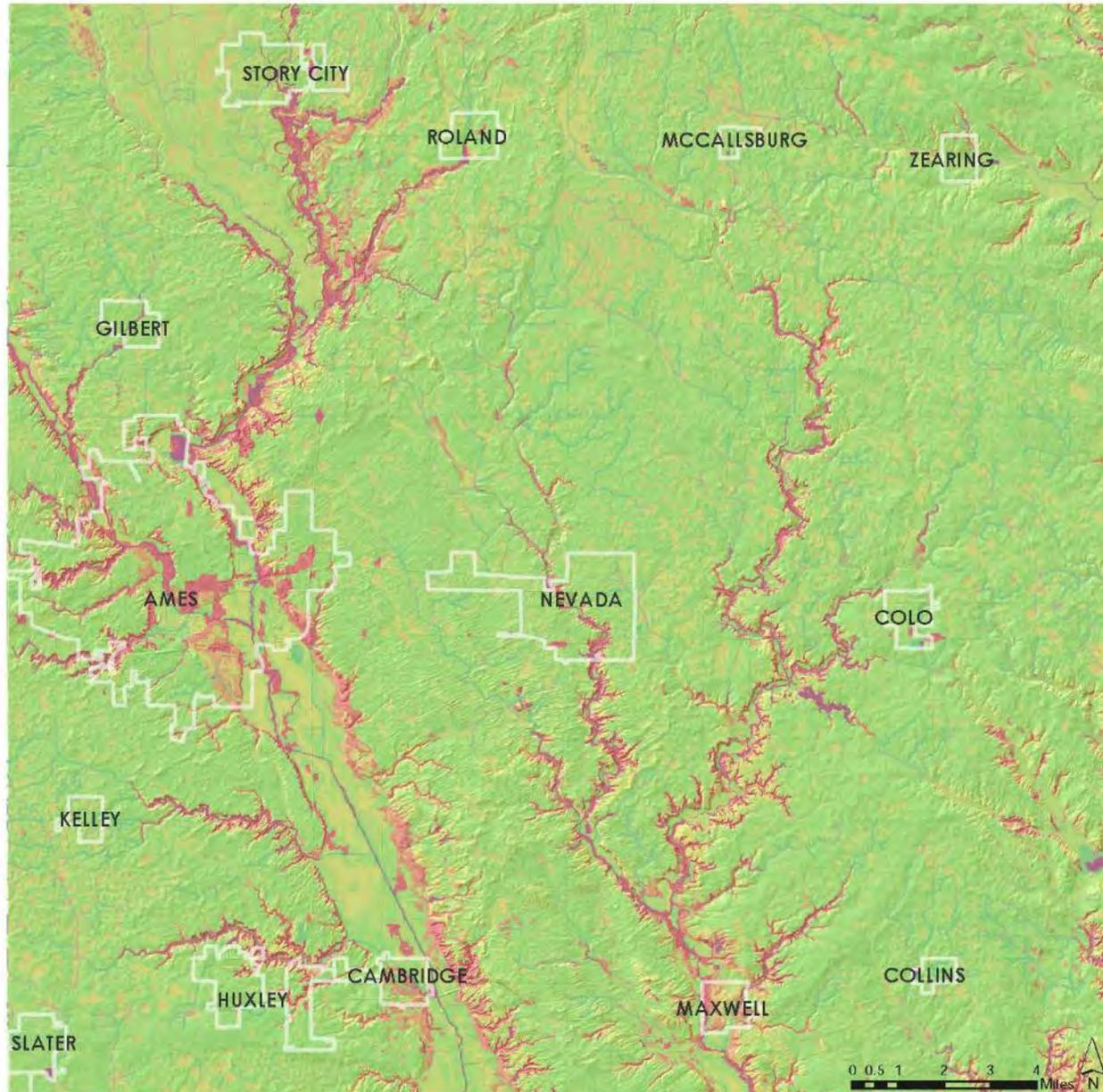


- Legend**
- City Boundaries
  - Low Corn Yield Potential
  - Moderate Corn Yield Potential
  - High Corn Yield Potential

GIS Data Sources:  
Story County GIS Coordinator, Matt Boeck  
Iowa Department of Natural Resources GIS Library (NRGIS)



# MAP 7 | STORY COUNTY SOIL-BASED SOYBEAN YIELD MAP

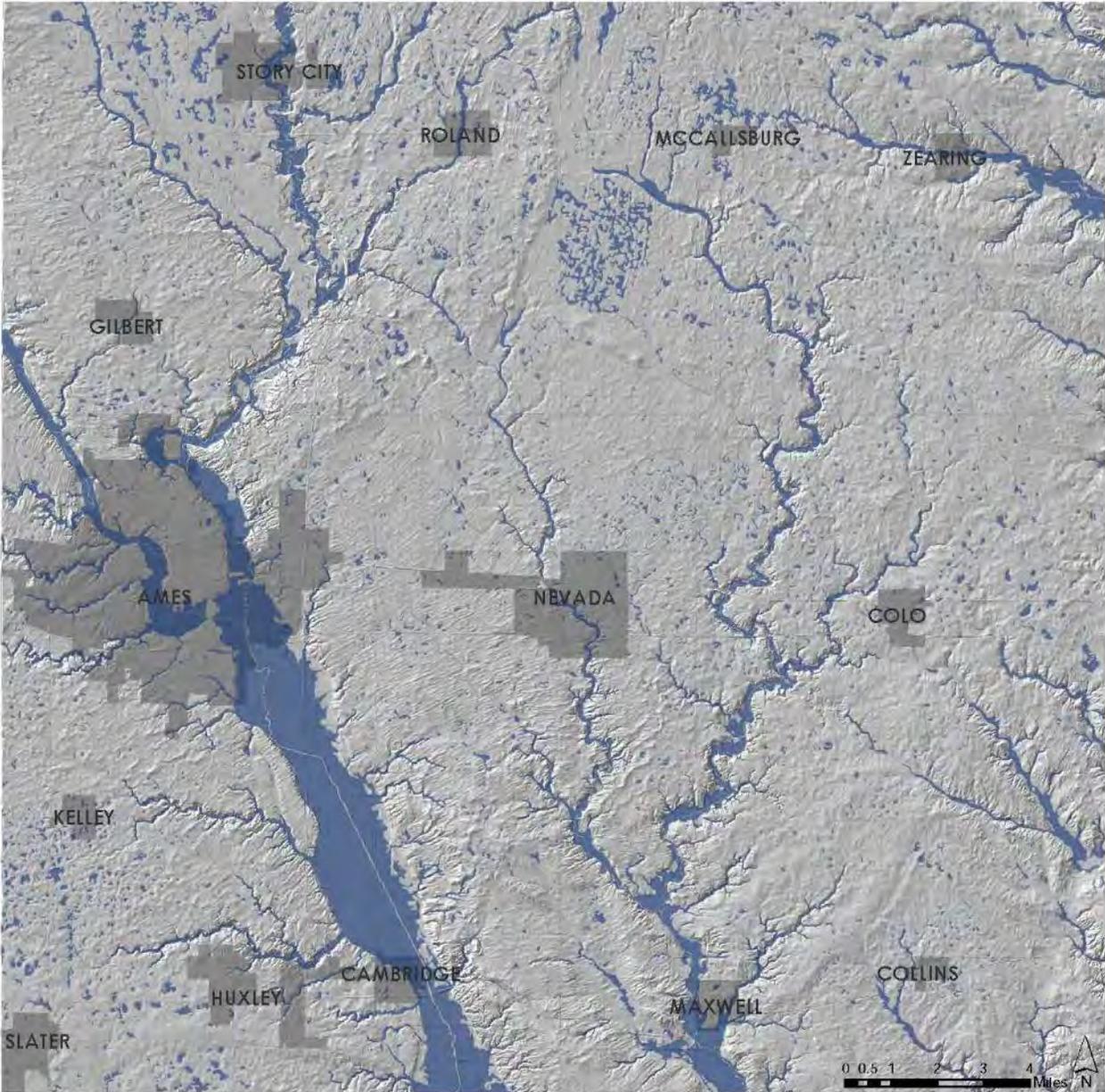


- Legend**
- City Boundaries
  - Low Soybean Yield Potential
  - Moderate Soybean Yield Potential
  - High Soybean Yield Potential

GIS Data Sources:  
Story County GIS Coordinator, Matt Boeck  
Iowa Department of Natural Resources GIS Library (NRGIS)



MAP 8 | STORY COUNTY HYDRIC SOILS MAP

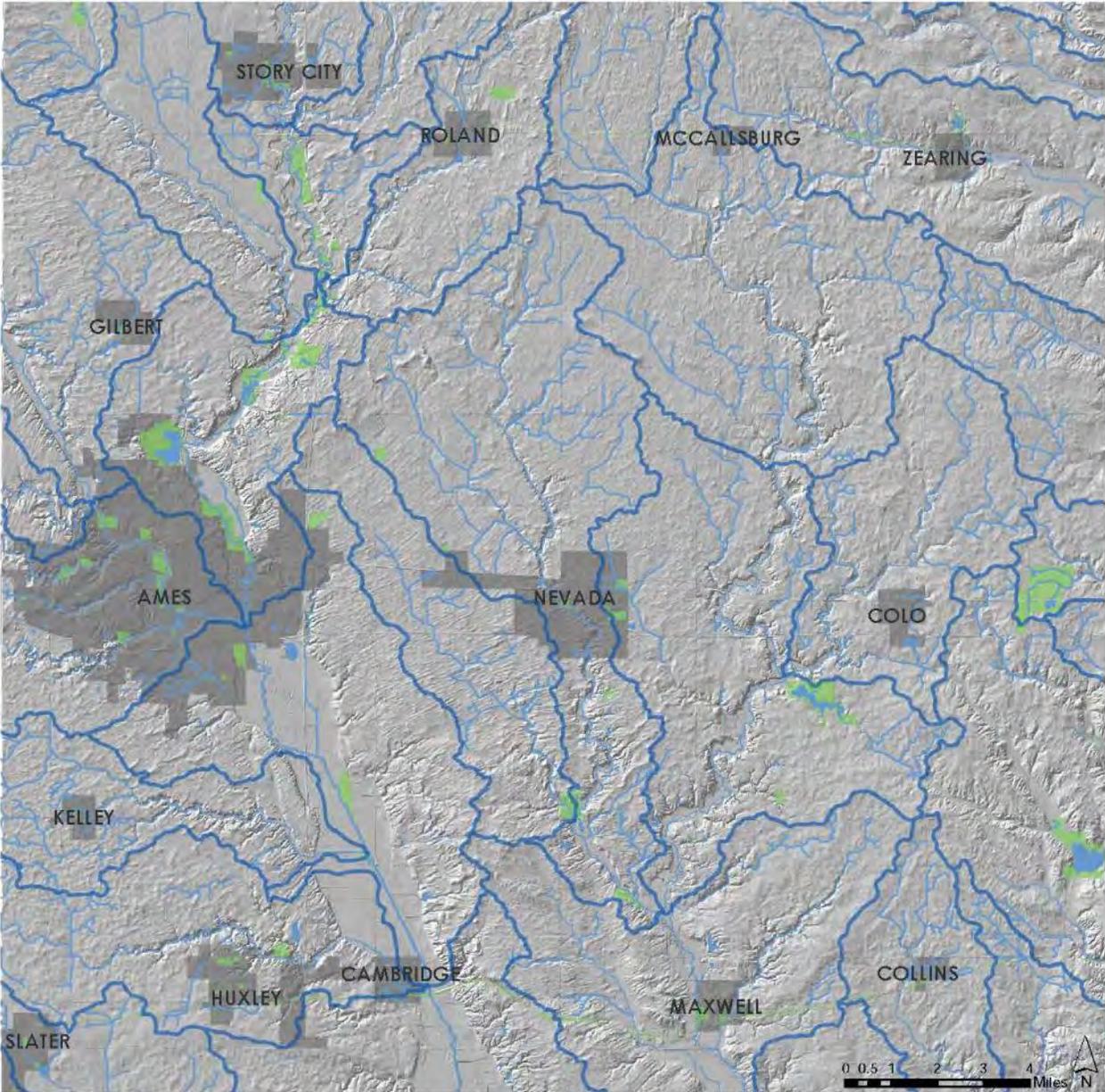


- Legend
- Story County
  - City Boundaries
  - Areas with Hydric Soils

GIS Data Sources:  
Story County GIS Coordinator, Matt Boeck  
Iowa Department of Natural Resources GIS Library (NRGIS)



MAP 9 | STORY COUNTY WATERSHEDS MAP

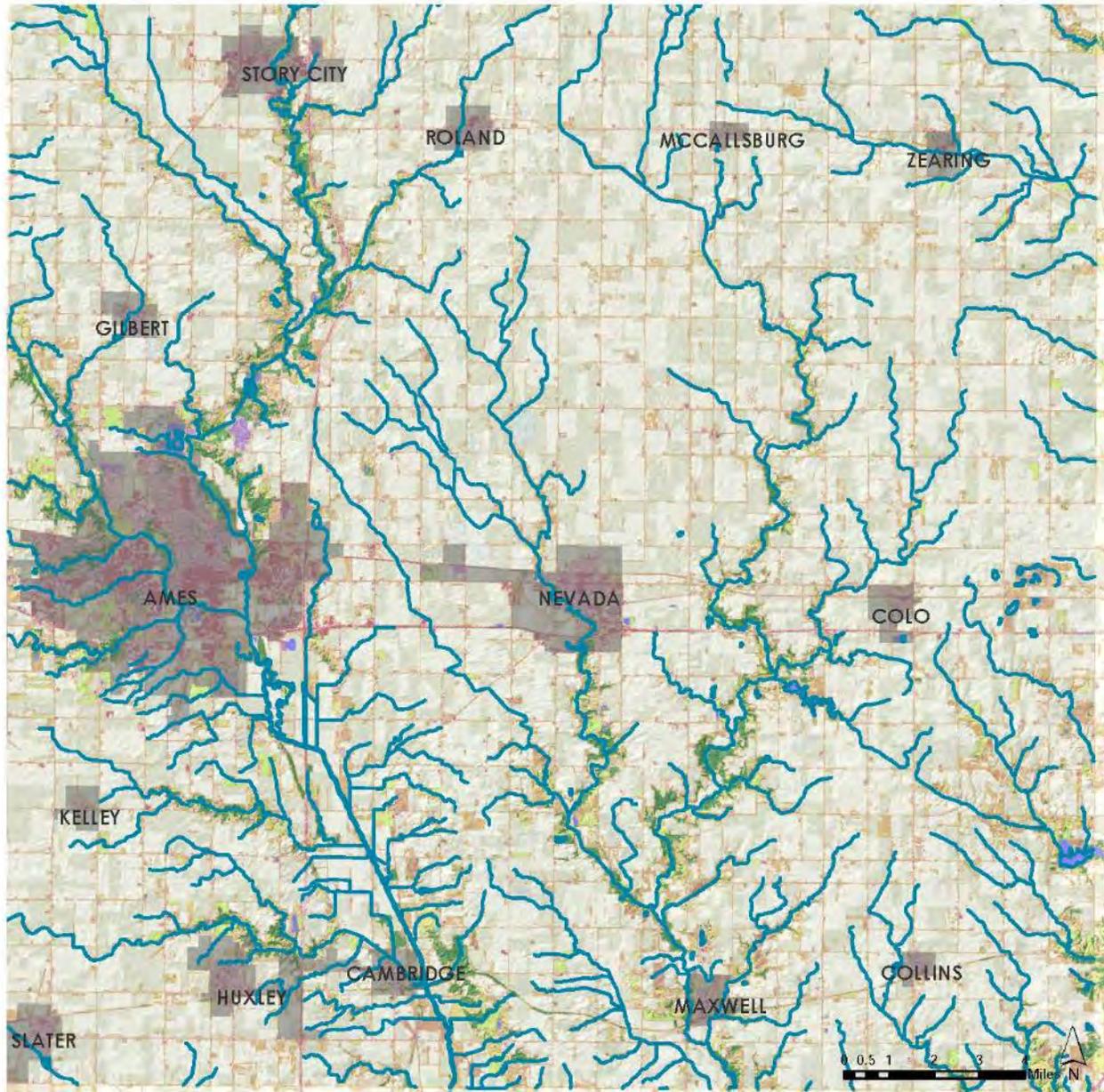


- Legend**
- Rivers and Streams
  - Parks and Green Space
  - Story County
  - City Boundaries
  - Watersheds (HUC 12's)

GIS Data Sources:  
 Story County GIS Coordinator, Matt Boeck  
 Iowa Department of Natural Resources GIS Library (NRGIS)



MAP 10 | STORY COUNTY LAND COVER MAP

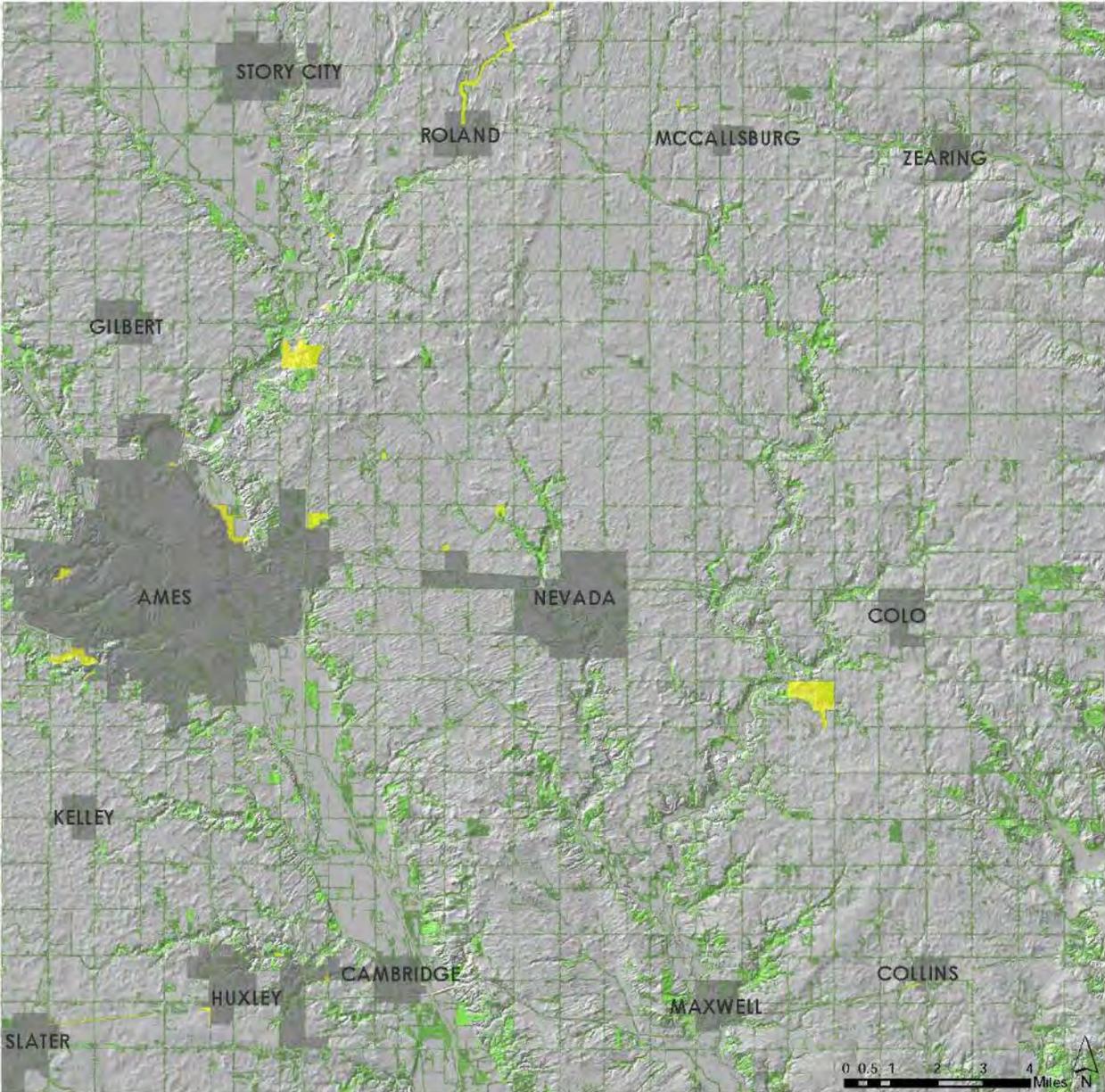


- Legend**
- Rivers and Streams
  - Parks and Green Space
  - Lakes
  - Wetlands
  - Coniferous Forest
  - Deciduous Forest
  - Planted Grassland
  - Ungrazed Grassland
  - Cut Hay
  - Corn
  - Soy Beans
  - Barren / Fallow
  - Roads / Impervious Surfaces
  - City Boundaries

GIS Data Sources:  
 Story County GIS Coordinator, Matt Boeck  
 Iowa Department of Natural Resources GIS Library (NRGIS)



MAP 11 | STORY COUNTY PRAIRIE LAND MAP

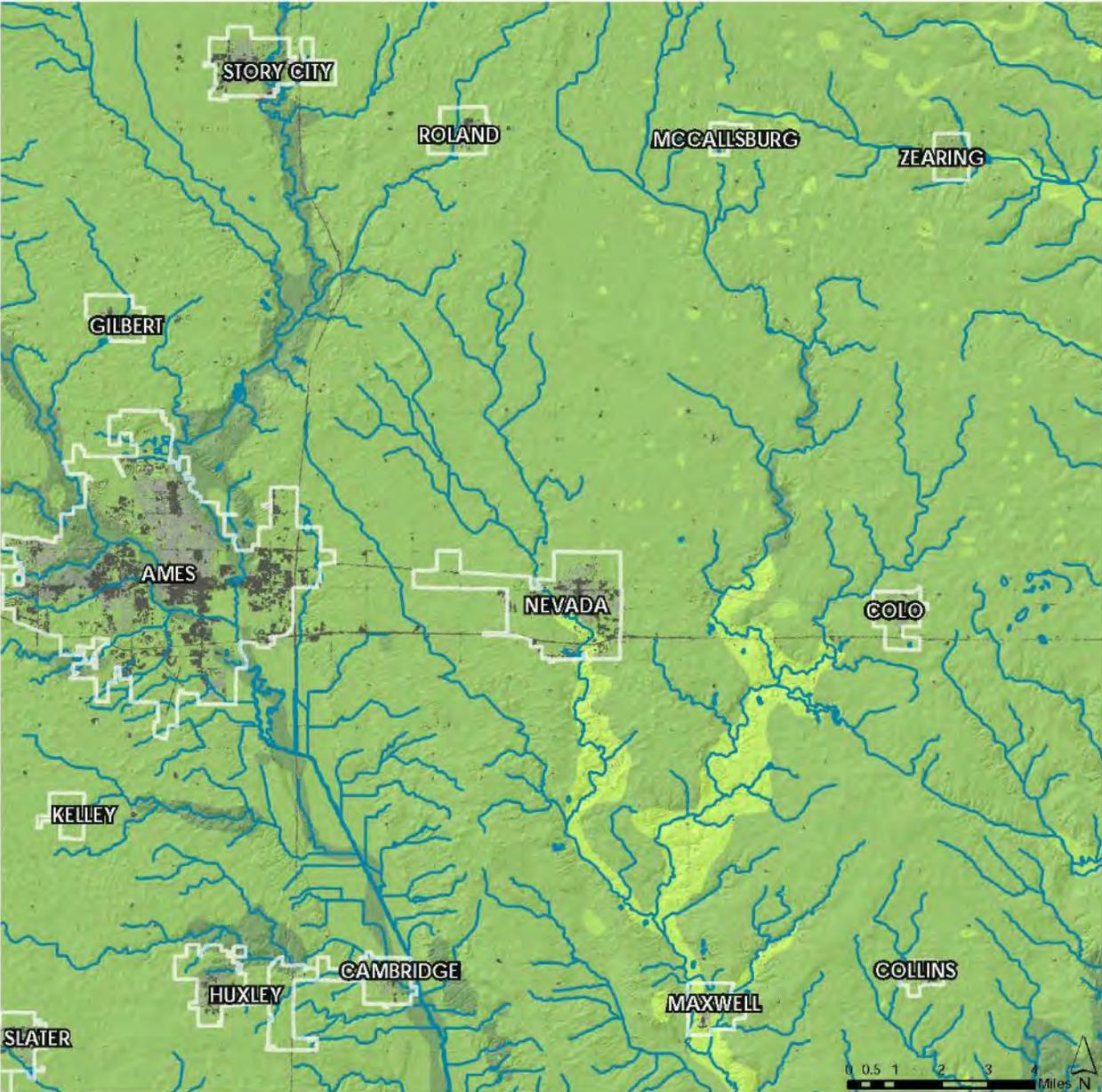


- Legend**
- Story County
  - City Boundaries
  - Public Prairie
  - Grazed Grassland
  - Planted Grassland
  - Ungrazed Grassland

GIS Data Sources:  
Story County GIS Coordinator, Matt Boeck  
Iowa Department of Natural Resources GIS Library (NRGIS)



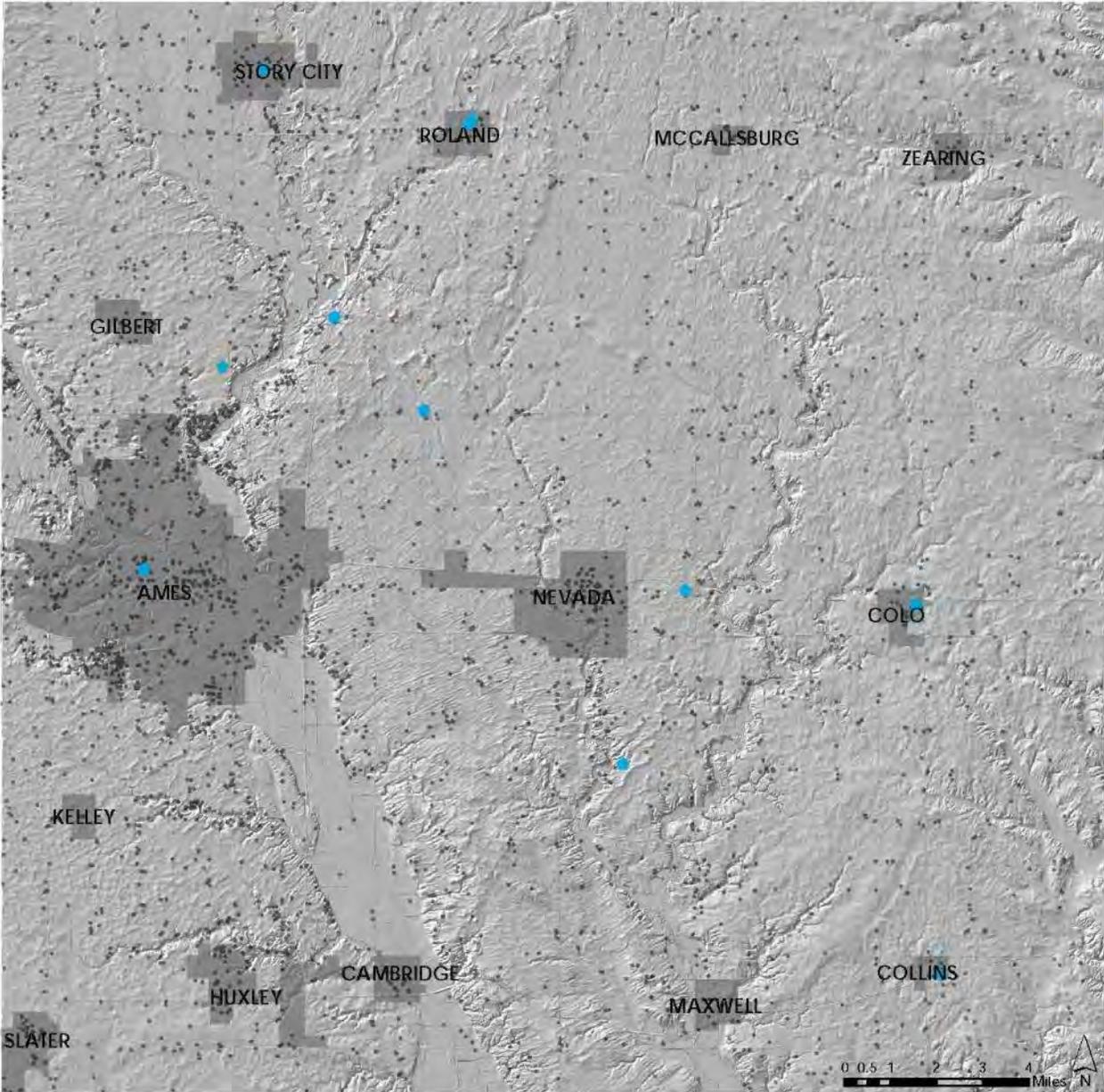
MAP 12 | STORY COUNTY VEGETATION TYPE MAP



- Legend**
- Marsh
  - Pond
  - Plains
  - Scattering Trees
  - Swamp
  - Timber
  - Residential
  - Commercial
  - Rivers and Streams
  - City Boundaries

GIS Data Sources:  
 Story County GIS Coordinator, Matt Boeck  
 Iowa Department of Natural Resources GIS Library (NRGIS)



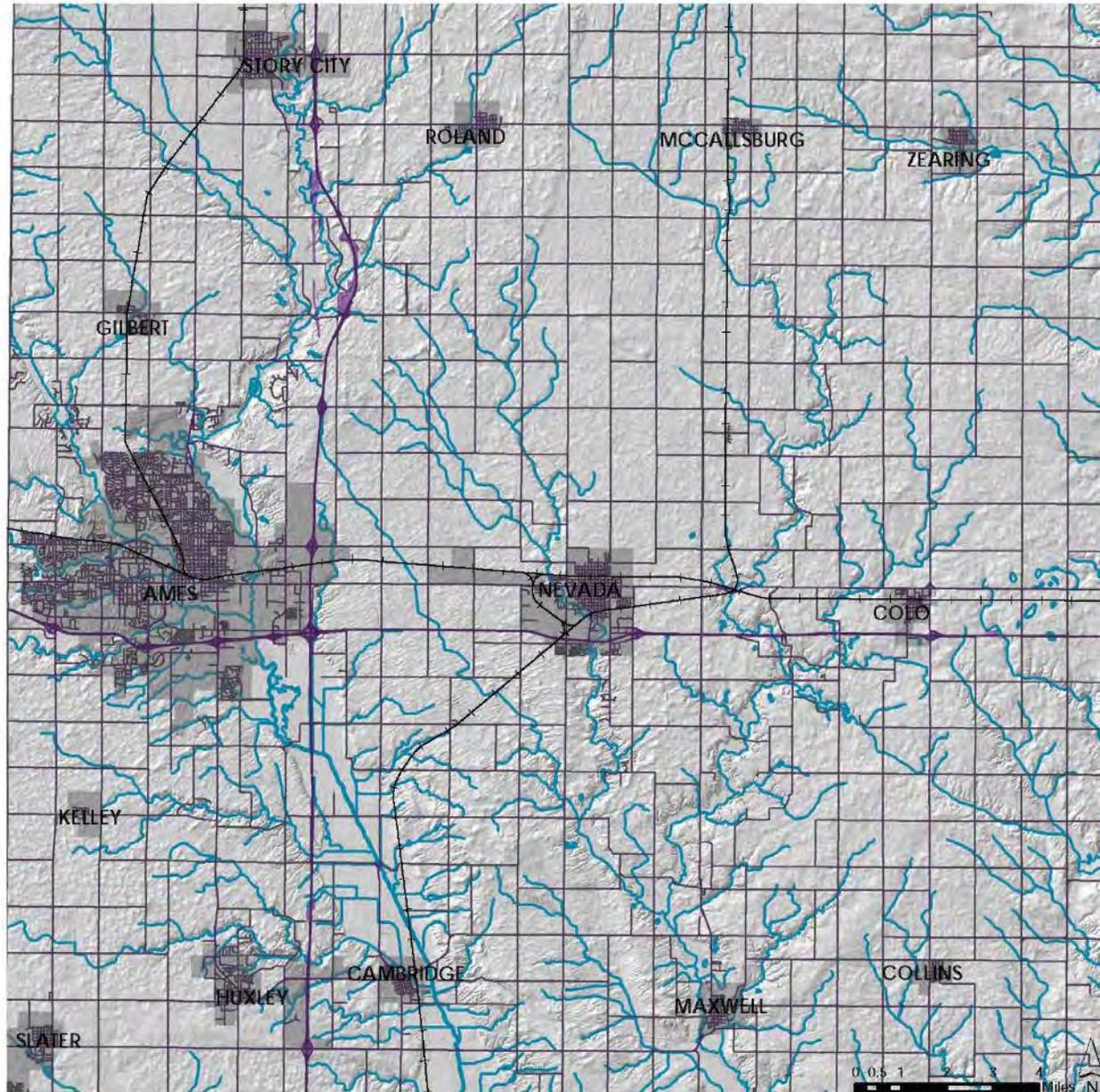


- Legend**
- Story County
  - City Boundaries
  - All Wells
  - Mississippiian Quality Water Wells

GIS Data Sources:  
 Story County GIS Coordinator, Matt Boeck  
 Iowa Department of Natural Resources GIS Library (NRGIS)



# MAP 14 | STORY COUNTY TRAVEL CORRIDORS MAP

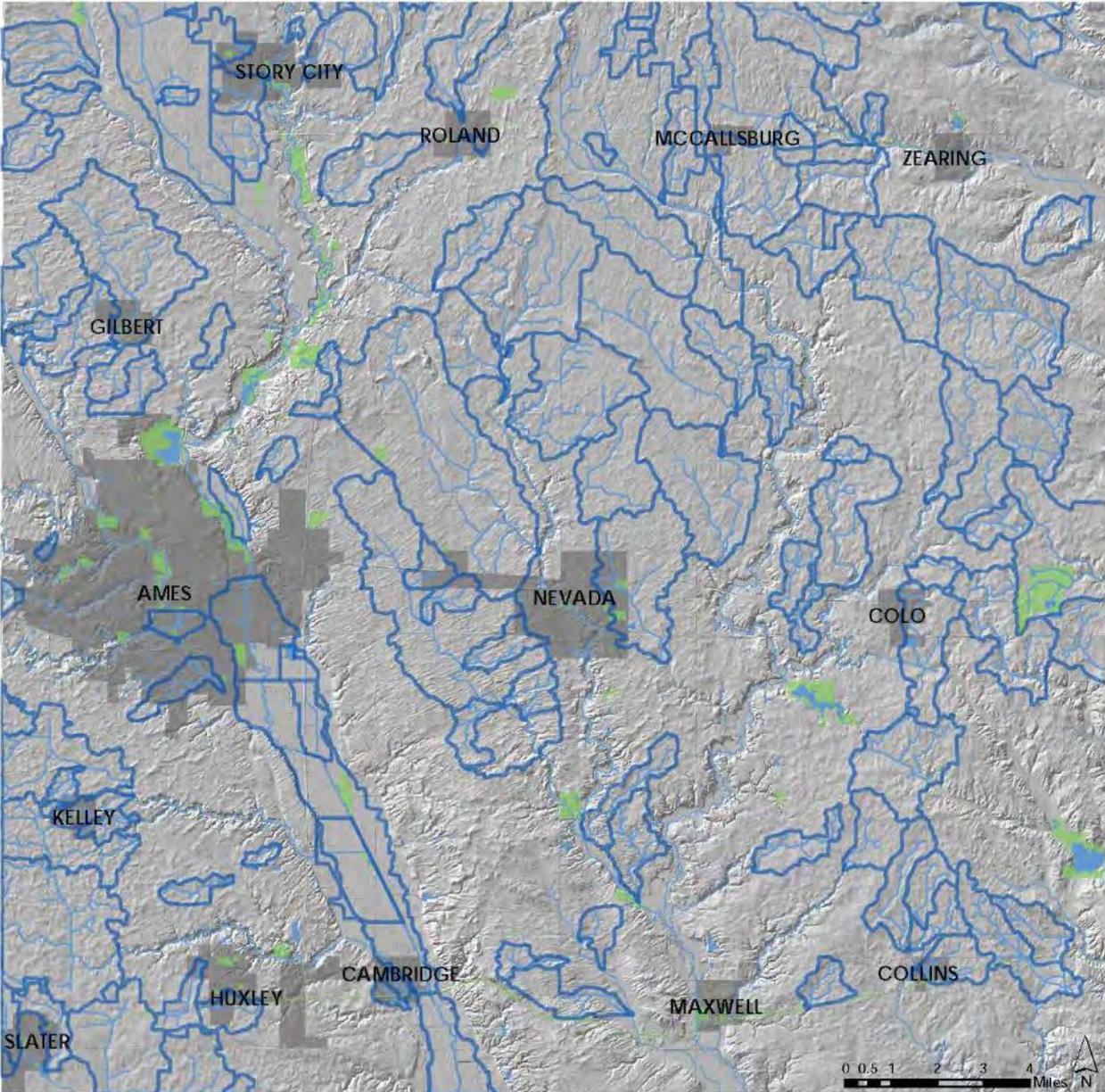


- Legend
- Story County
  - City Boundaries
  - Roads
  - Public Right of Way
  - Rivers and Streams
  - Railroads

GIS Data Sources:  
Story County GIS Coordinator, Matt Boeck  
Iowa Department of Natural Resources GIS Library (NRGIS)



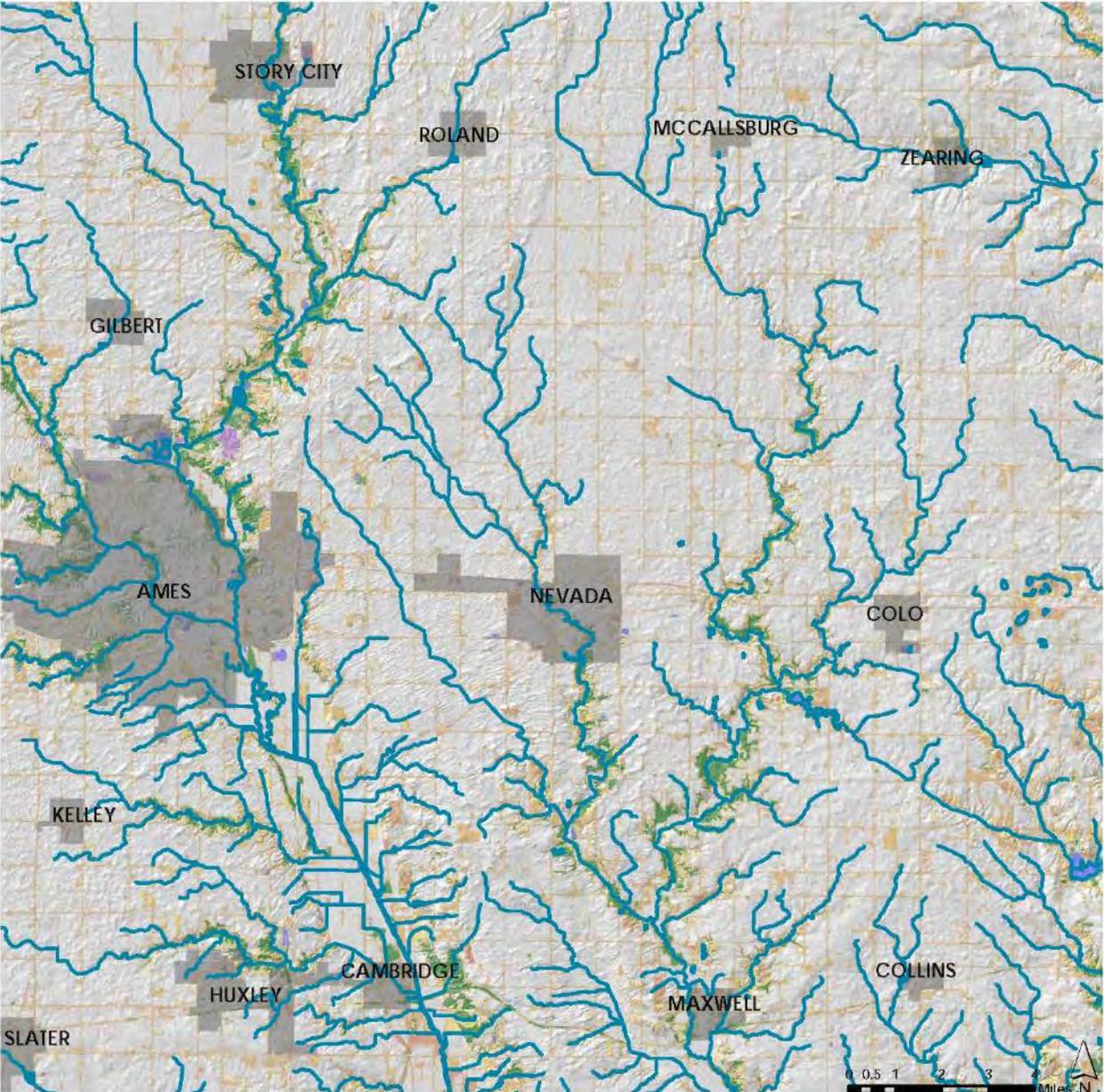
MAP 15 | STORY COUNTY DRAINAGE DISTRICTS MAP



- Legend
- Rivers and Streams
  - Parks and Green Space
  - Story County
  - City Boundaries
  - Drainage Districts

GIS Data Sources:  
Story County GIS Coordinator, Matt Boeck  
Iowa Department of Natural Resources GIS Library (NRGIS)



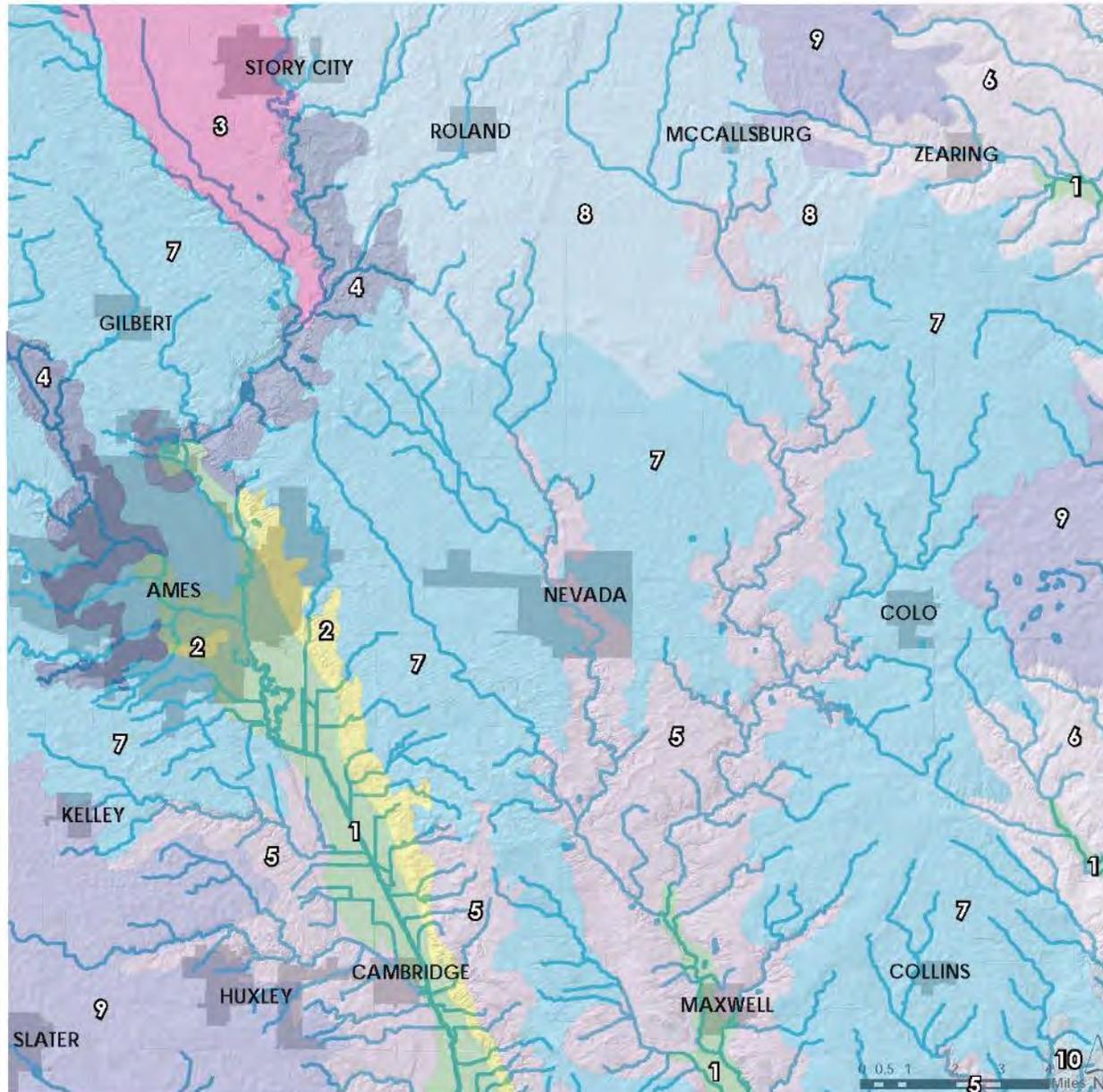


- Legend**
- Rivers and Streams
  - City Boundaries
  - Barren / Fallow
  - Lakes
  - Wetlands
  - Coniferous Forest
  - Deciduous Forest
  - Bottomland Forest
  - Planted Grassland
  - Ungrazed Grassland

GIS Data Sources:  
 Story County GIS Coordinator, Matt Boeck  
 Iowa Department of Natural Resources GIS Library (NRGIS)



## MAP 17 | STORY COUNTY LANDSCAPE TYPES MAP



### Legend

- Landscape Type 1: Nearly level floodplains and low terraces along Skunk River and the larger streams.
- Landscape Type 2: Nearly level terraces, areas of wind-blown sand, and slope-wash deposits.
- Landscape Type 3: Nearly level upland plain. Large rectangular fields of row crops occupy nearly all of the land area.
- Landscape Type 4: Steeply sloping valley walls, narrow terraces, and bottomlands adjacent to Squaw Creek and Skunk River.
- Landscape Type 5: Gently sloping uplands adjacent to the principal streams. These areas are deeply dissected by a network of tributary streams which have steep gradients.
- Landscape Type 6: Gently rolling upland areas with a general slope in the direction of the principal adjacent stream.
- Landscape Type 7: Nearly level to undulating uplands. Large fields of row crops create the dominant pattern on the land.
- Landscape Type 8: Rolling ridges and swales oriented in north to south lines. Large fields of row crops are the dominant pattern.
- Landscape Type 9: Sharply sloping ridges alternating with broad low swales. A few widely spaced streams and many small enclosed basins which are (or once were) marshy occur in these areas.
- Landscape Type 10: Loess capped ridges within steep, rolling topography. Adjacent counties to the south and east have topographic features similar to those of this area.
- City Boundaries
- Rivers and Streams

### GIS Data Sources:

Story County GIS Coordinator, Matt Boeck  
Iowa Department of Natural Resources GIS Library (NRGIS)



**INTRODUCTION:**

Patterns on the surface of the land are created by the interaction of natural processes and by man's use and management of the land. The landscape of Story County displays many visual patterns of geologic formations, soils, streams, valleys, woodlands, fields, farmsteads, roads, and towns.

Ten landscape types in Story County were identified by grouping soil mapping units according to similarities of slope, drainage, geomorphic form, texture, and presettlement vegetation. Each landscape type is comprised of the areas with similar visual patterns. The outline map of the ten landscape types (page 17) is a generalization from the tones and patterns of the soil characteristics displayed on the computer output map (page 17). Landscape Types 1 and 2 are floodplains, terraces, and footslope areas. Landscape Type 3 is a low, flat upland area. Landscape Types 4, 5, and 6 are valley and valley wall landscapes of soils formed in glacial till. Types 7, 8, and 9, which differ from each other primarily in slope and drainage character, are upland landscapes of soils formed in glacial till. Landscape Type 10, a rolling stream-dissected area, is unique because it contains the only loess-derived soils in Story County.

Each of the following photographs of the landscape types delineated on the outline map is accompanied by a brief description of the distinguishing characteristics of the landscape type it illustrates.



**LANDSCAPE TYPE 1**

Nearly level floodplains and low terraces along Skunk River and the larger streams. Skunk River south of Ames and segments of other streams have been straightened. Small streams from the uplands are conveyed across the floodplain in ditches. Woody vegetation is usually restricted to the vicinity of streambanks, to roadsides, and to the few farmsteads located on the floodplain. The very level land is well suited for row crops in large fields. Necessary supplementary soil drainage is accomplished by tile lines and by drainage ditches. The areas included in this landscape type are occasionally flooded.



**LANDSCAPE TYPE 4**

Steeply sloping valley walls, narrow terraces, and bottomlands adjacent to Squaw Creek and Skunk River. Because of the shallow depth to bedrock and their moderately steep gradient, streams are fairly straight in these areas. Many areas are heavily wooded, with upland tree species on the slopes and in the steep-walled ravines, and riparian woodland along the streams. This landscape type probably has the lowest percentage of row crops of any landscape type in the county because of steep erosive slopes, draughty soils, or flooding from the streams. Fields are small and irregularly shaped. Much of the land is in hay and pasture.



**LANDSCAPE TYPE 2**

Nearly level terraces, areas of wind-blown sand, and slope-wash deposits. Small alluvial fans may occur where small streams from the uplands enter the floodplain. Trees and shrubby vegetation occur on the steep slopes, along some watercourses, near farmsteads, and in plantations. Level areas adjacent to the bottomlands are used for row crops, though these areas may be droughty and may have low fertility due to their coarse texture. Sloping areas which may be subject to wind and water erosion are often used for hay and pasture.



**LANDSCAPE TYPE 5**

Gently sloping uplands adjacent to the principal streams. These areas are deeply dissected by a network of tributary streams which have steep gradients. Most of the streambanks and valley walls are thickly wooded. Occasional farmstead windbreaks occur within the large fields of row crops on the level uplands. Crop rotation, terracing, contouring, and the use of pasture are common erosion control practices on the rolling areas, where many fields are small and irregularly shaped. Compared with roads in the other landscape types, the roads in this landscape type have the least conformity to the grid pattern of section lines.



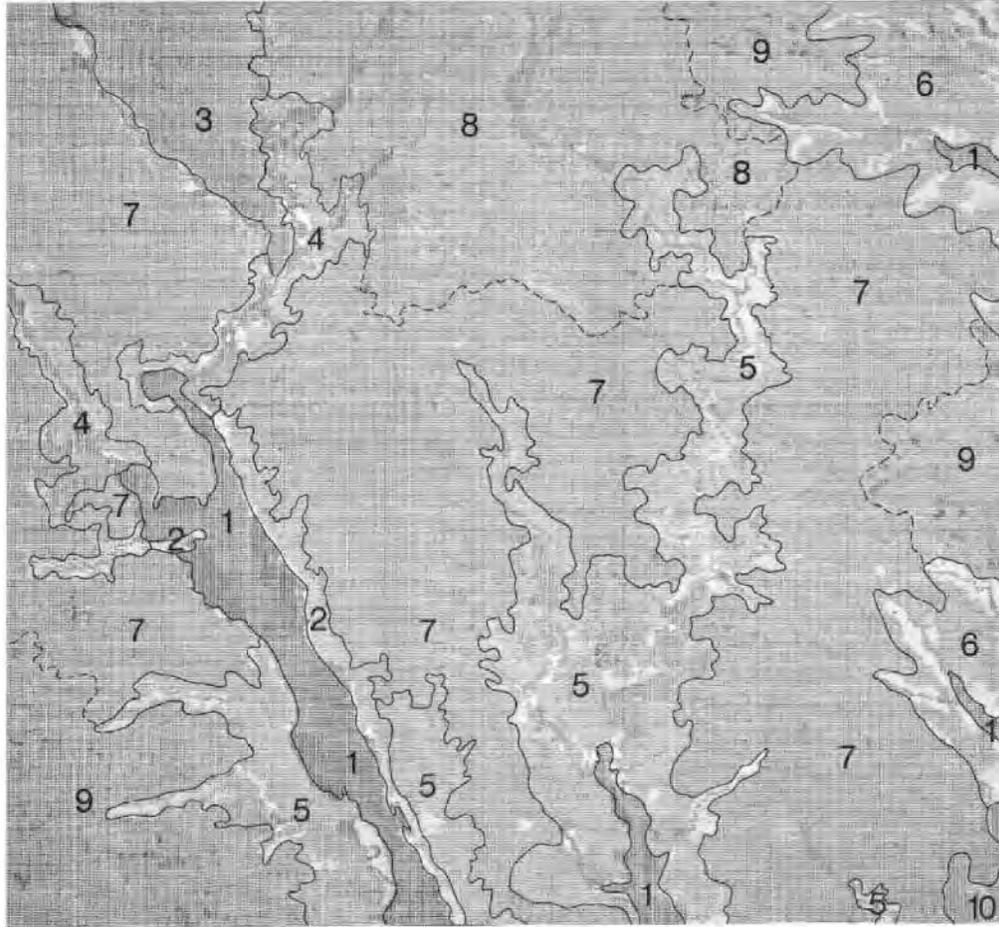
**LANDSCAPE TYPE 3**

Nearly level upland plain. This area, which is at a slightly lower elevation than adjacent uplands, is bounded on the eastern edge by Skunk River and on the western edge by Kegley Creek. The land is drained by one large drainage ditch and by several smaller ditch and tile systems. Small potholes throughout the area often contain marsh plants. There are few trees, except for those near farmsteads. Large rectangular fields of row crops occupy nearly all of the land area.



**LANDSCAPE TYPE 6**

Gently rolling upland areas with a general slope in the direction of the principal adjacent stream. These areas are dissected by a well developed network of smaller streams and drainageways. Most of these streams flow intermittently. There are few trees, except for those near farmsteads. Row crops are grown in large rectangular fields. Crop rotation, contouring, or terracing may be used on more steeply sloping areas where erosion is a hazard.



These ten landscape types derive from the 1975 Natural Resource Analysis of Story County, Iowa, which was prepared for the Story County Board of Supervisors in cooperation with the Iowa Agriculture and Home Experiment Station. An updated map on page 15, as well as updated imagery have been provided here.



**LANDSCAPE TYPE 7**

Nearly level to undulating uplands. Low ridges form southwest to northeast lines across these areas. Small streams and intermittent drainageways are widely spaced. Most trees are in the immediate vicinity of farmsteads. Large fields of row crops create the dominant pattern on the land. Extensive tiling of low areas allows the planting of crops across drainageways. In very wet years some crop damage may occur due to flooding of the many pothole areas.



**LANDSCAPE TYPE 8**

Rolling ridges and swales oriented in north to south lines. Much of the drainage of this land is underground, and streams are widely spaced. There are relatively few potholes in this area. Trees generally occur only near farmsteads. A few pastures are located in steep areas and along streams. Large fields of row crops are the dominant pattern. There are small areas of erosive soils and small areas of wet soils.



**LANDSCAPE TYPE 9**

Sharply sloping ridges alternating with broad low swales. A few widely spaced streams and many small enclosed basins which are (or once were) marshy occur in these areas. Many of the enclosed basins have been drained for agriculture, but a few of the original marshy areas remain. Trees are located principally near farmsteads. Fields form large rectangular patterns except where interrupted by undrained potholes. Low areas are occasionally flooded, even though extensive tile lines and ditches are used to drain these areas.



**LANDSCAPE TYPE 10**

Loess capped ridges within steep, rolling topography. Adjacent counties to the south and east have topographic features similar to those of this area. This landscape is deeply dissected by streams which form a feather-like drainage pattern. Woodlands and pasture occupy most of the steep erosive slopes. Relatively small irregularly shaped fields of row crops are located on the more gently sloping land. Some of the particularly erosive soils in this area are protected by permanent pasture and other erosion control practices.



# Meeting Agenda

- C2C Project Schedule Review
- Survey Status Update
- Community Issues and Opportunities Meetings
- Update on Existing Conditions Progress
- **Goals Discussion**

# Goals will be developed for the planning elements of the C2C Plan based on analysis of the following:



1. Existing Conditions
2. Public Input and
3. Existing Plans





# Next Meeting

- July 9th, 5:30PM
- Survey Status Update
- Review of Issues and Opportunities from Community Input Meetings
- Update on Existing Conditions Progress
- Review and Finalize Goals for C2C Plan