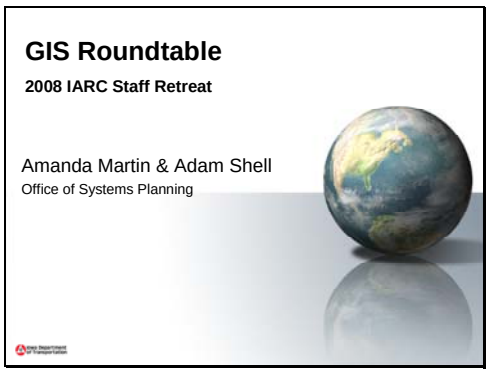
Slide 1



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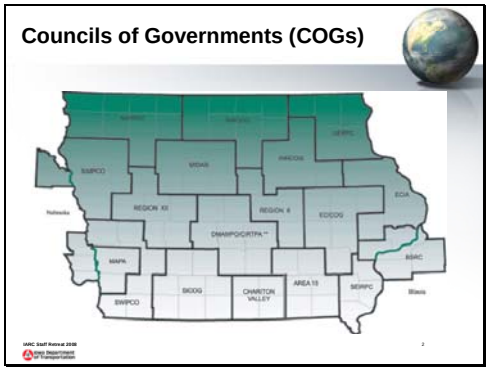
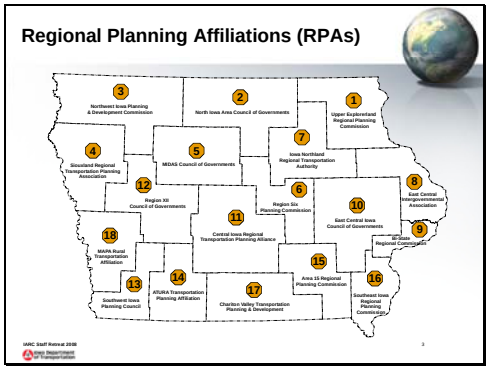
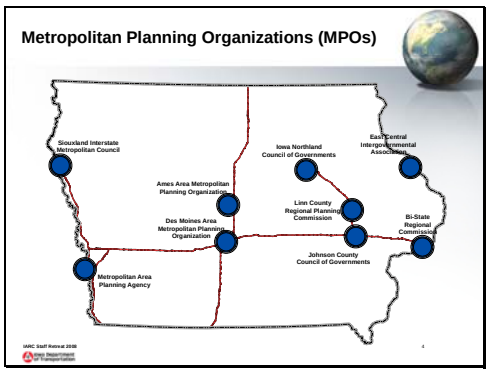


Slide 3



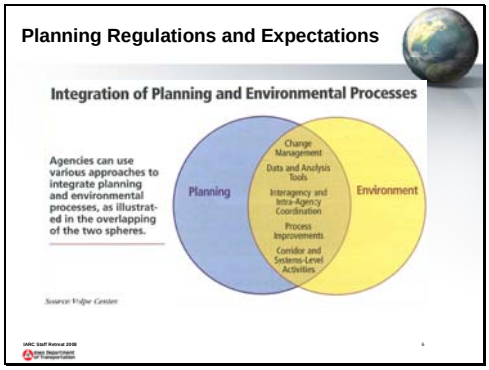
Iowa Department of Transportation

Slide 4



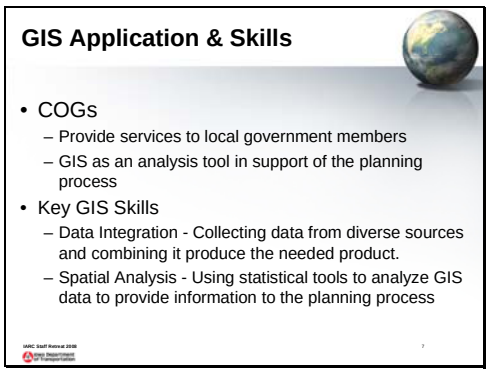
Slide 5

Slide 6



Iowa Department of Transportation

Slide 7



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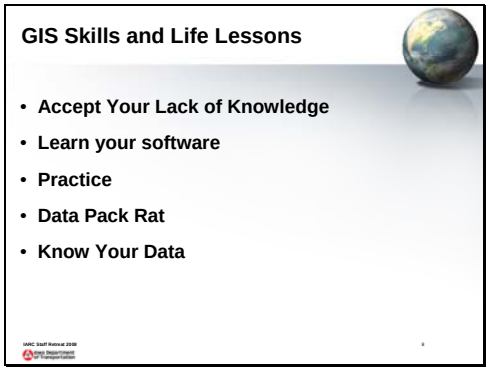

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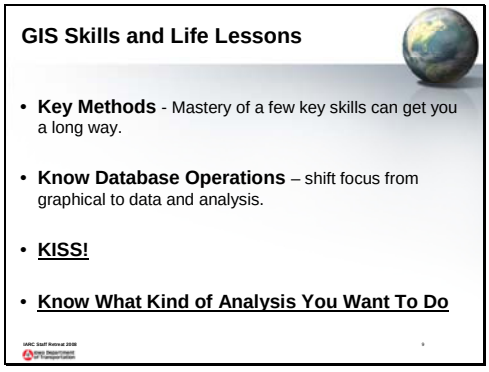


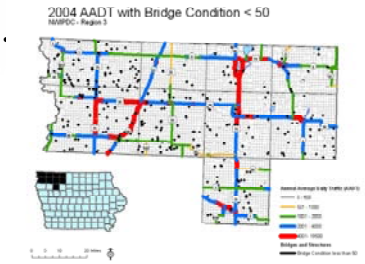
Slide 10

Emphasis of GIS and Maps

- Examples of typical GIS applications by a COG for it's transportation planning program
  - Describe the data sources
  - Describe data integration issues
  - Describe spatial analysis methods

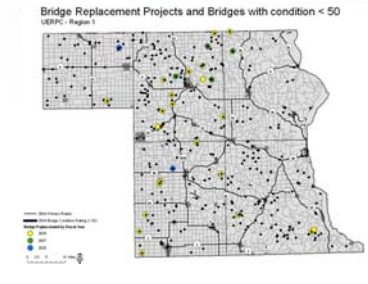
Slide 11

Examples - Transportation



Slide 12

Examples - Transportation



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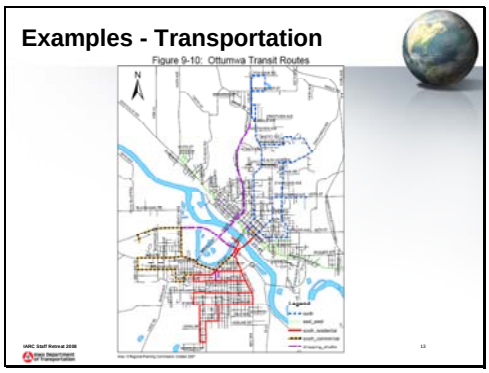

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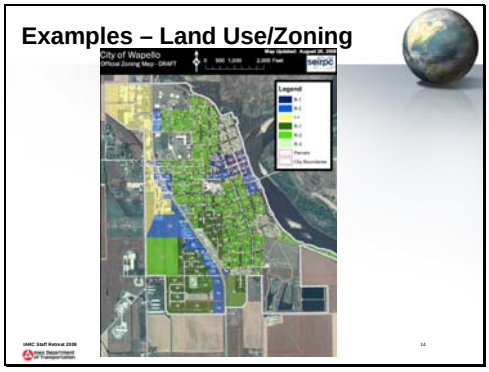

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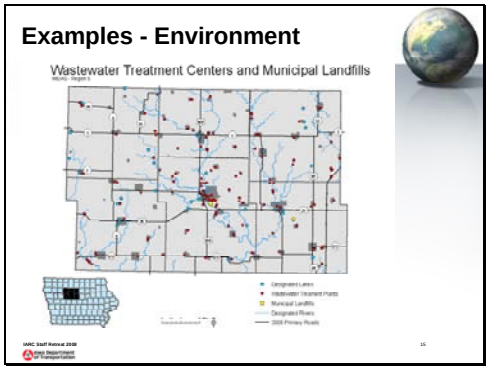
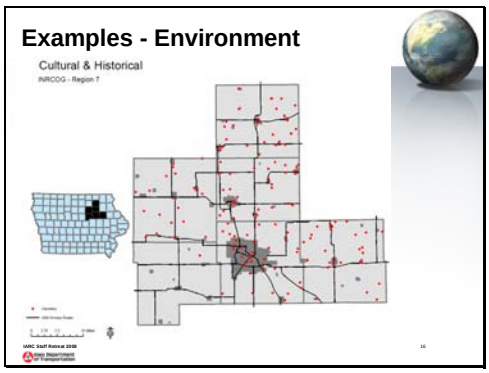


Iowa Department of Transportation

Slide 16



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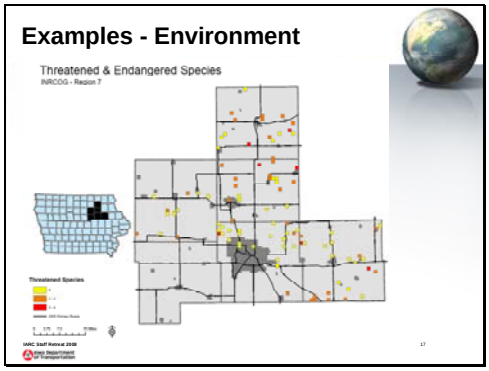

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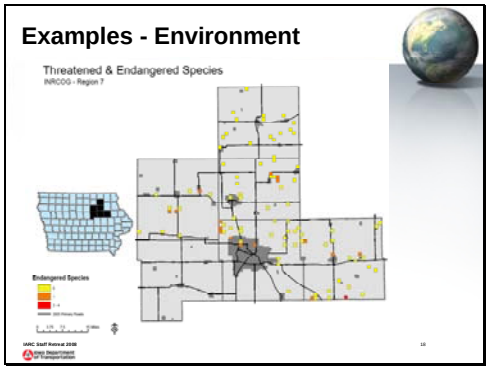

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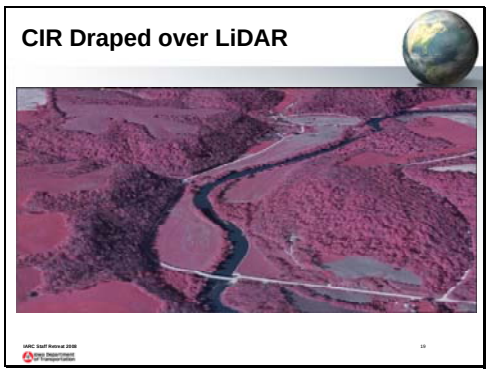

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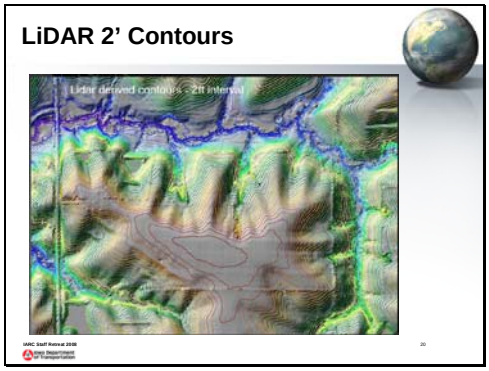

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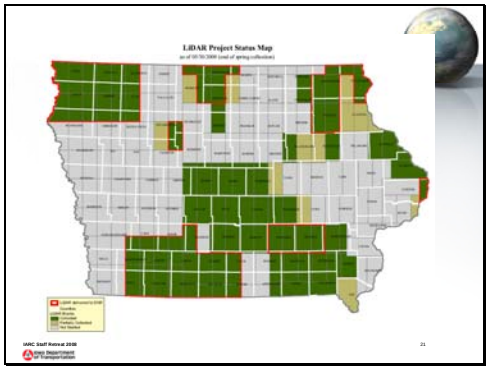

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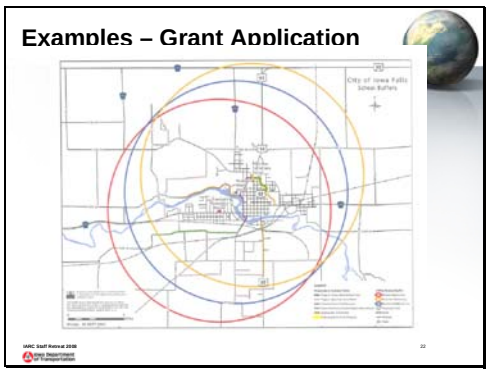

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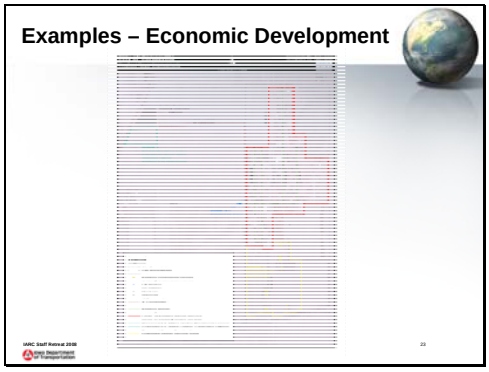

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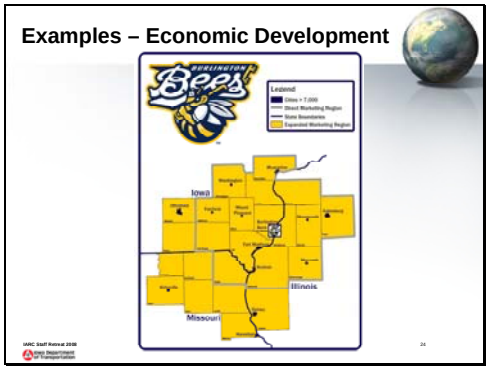
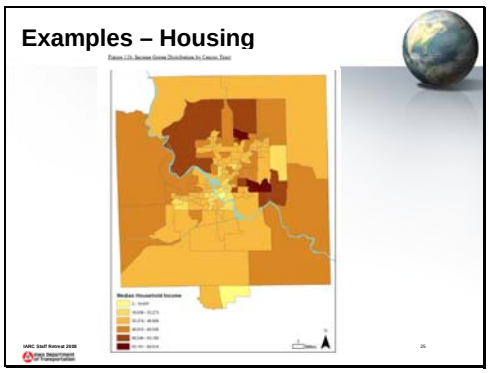


Iowa Department of Transportation

Slide 25



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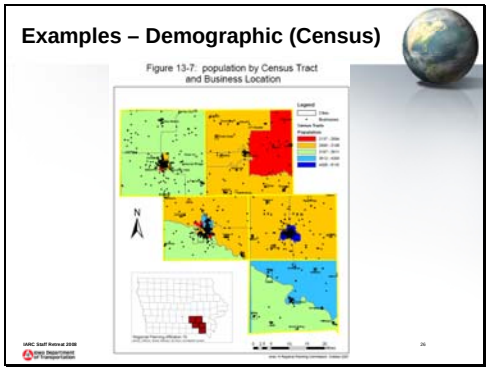

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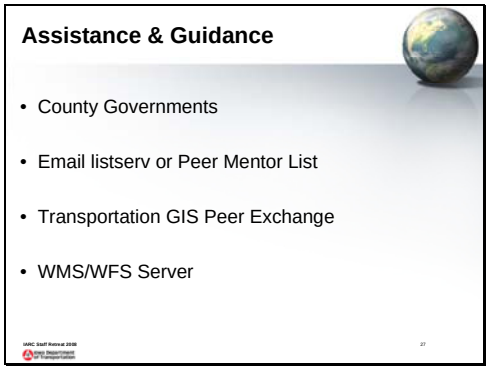

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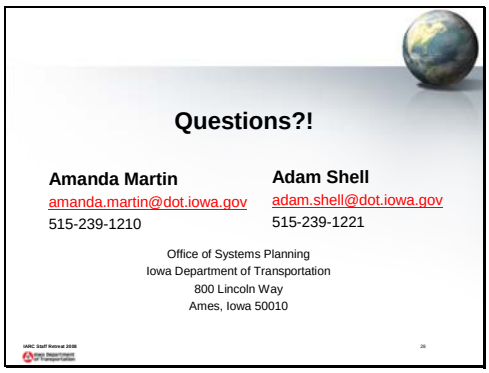
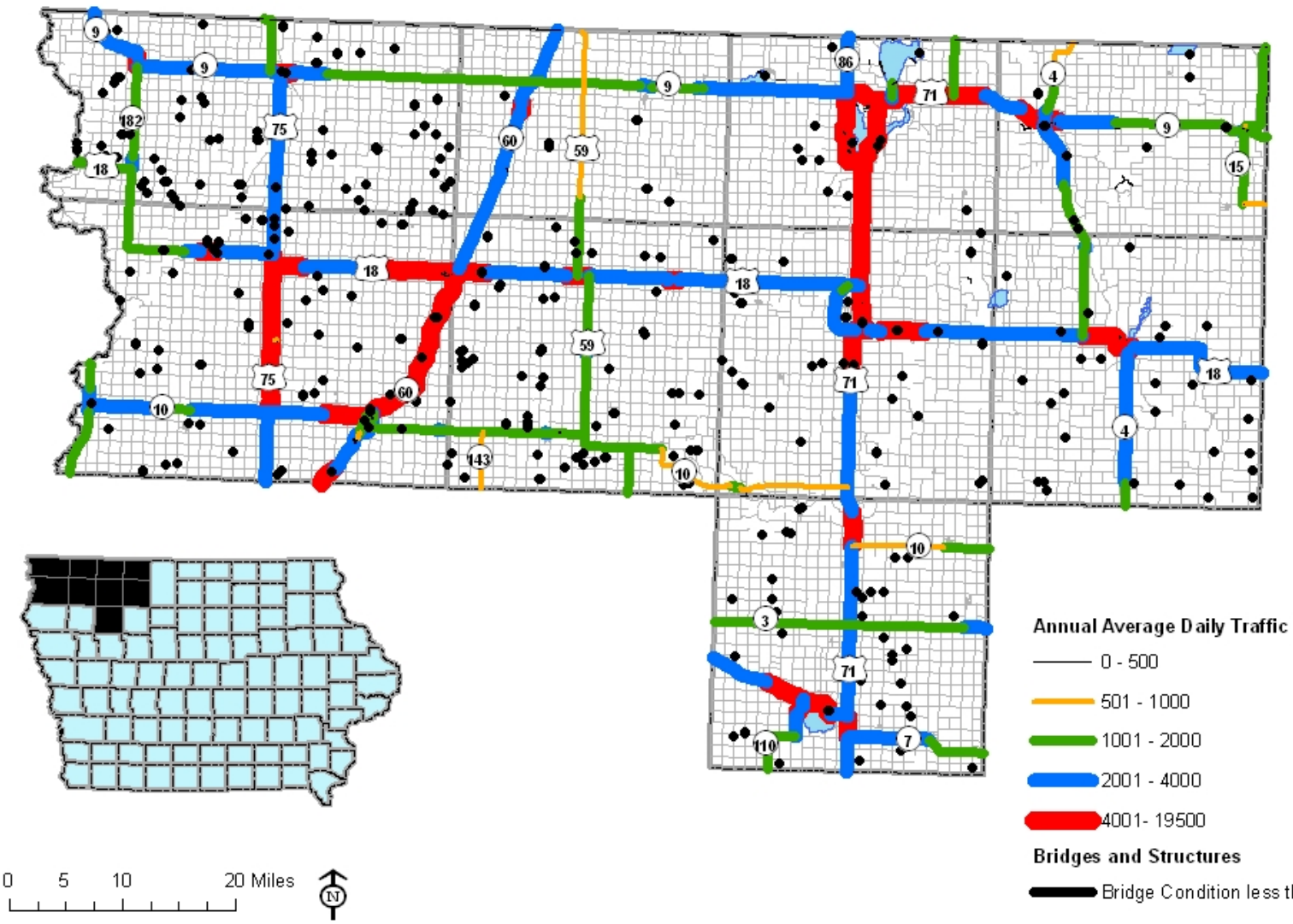

Questions?!
Amanda Martin
amanda.martin@dot.iowa.gov
515-239-1210
Adam Shell
adam.shell@dot.iowa.gov
515-239-1221
Office of Systems Planning
Iowa Department of Transportation
800 Lincoln Way
Ames, Iowa 50010

2004 AADT with Bridge Condition < 50

NWIPDC - Region 3



Bridge Replacement Projects and Bridges with condition < 50

UERPC - Region 1

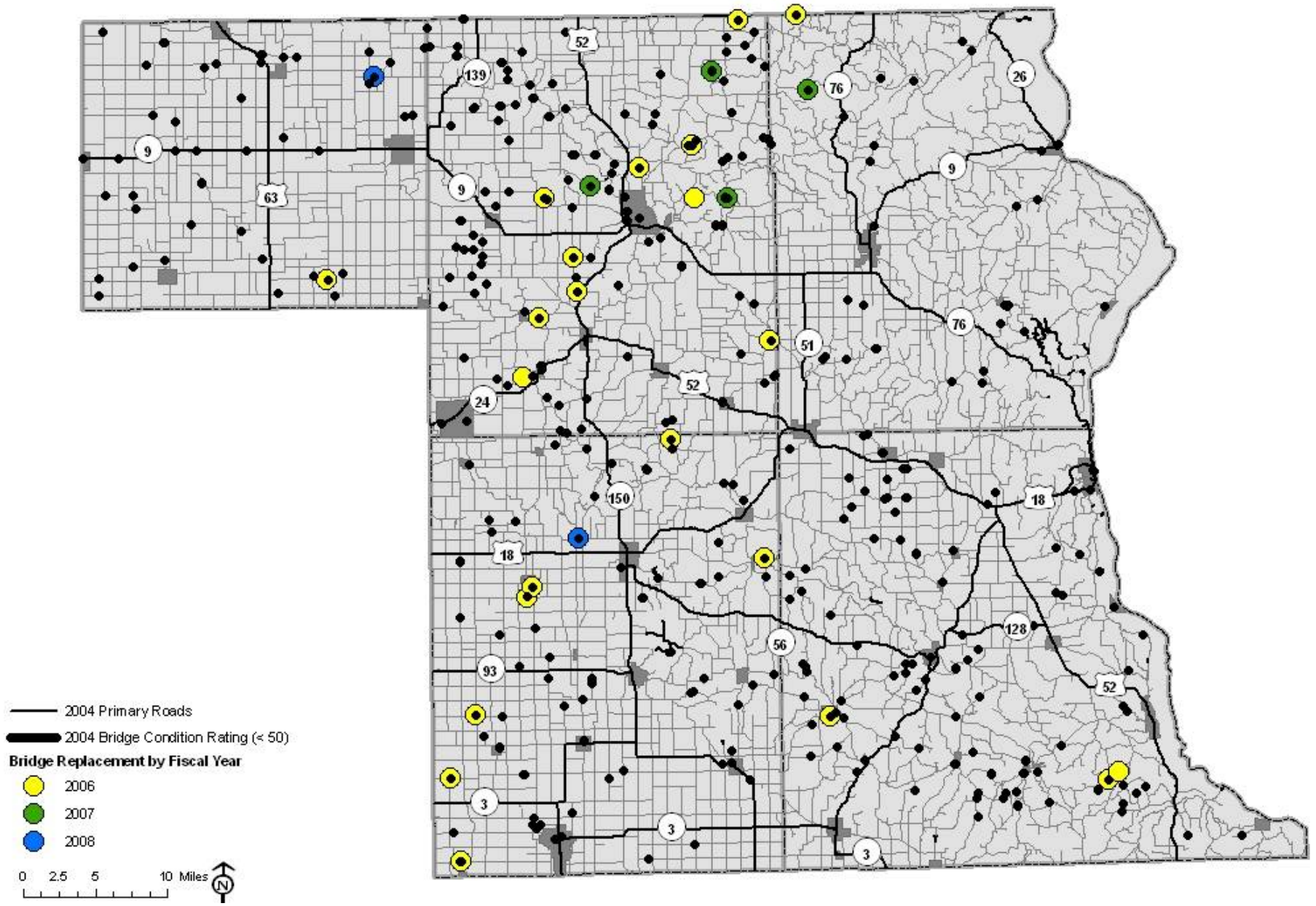
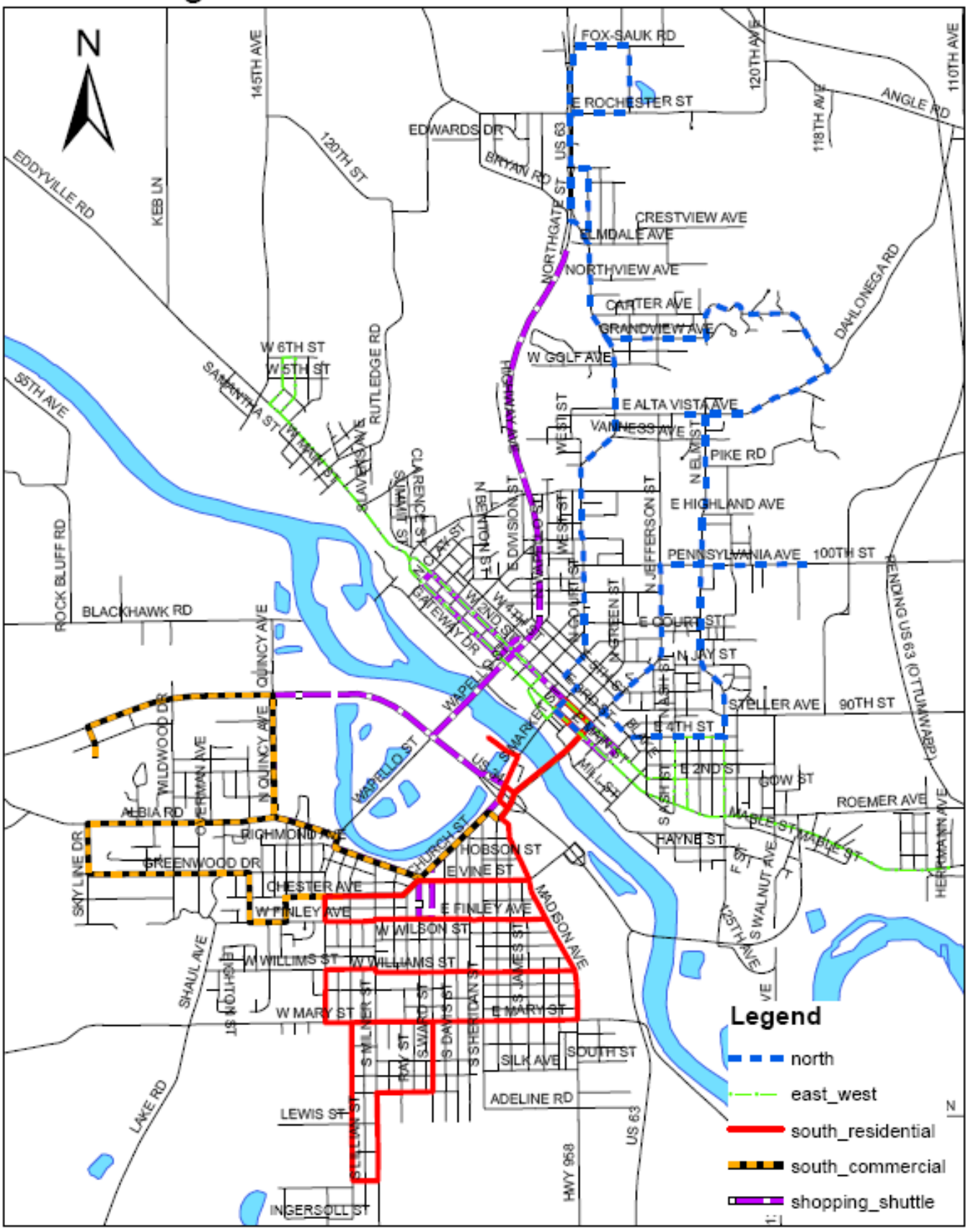
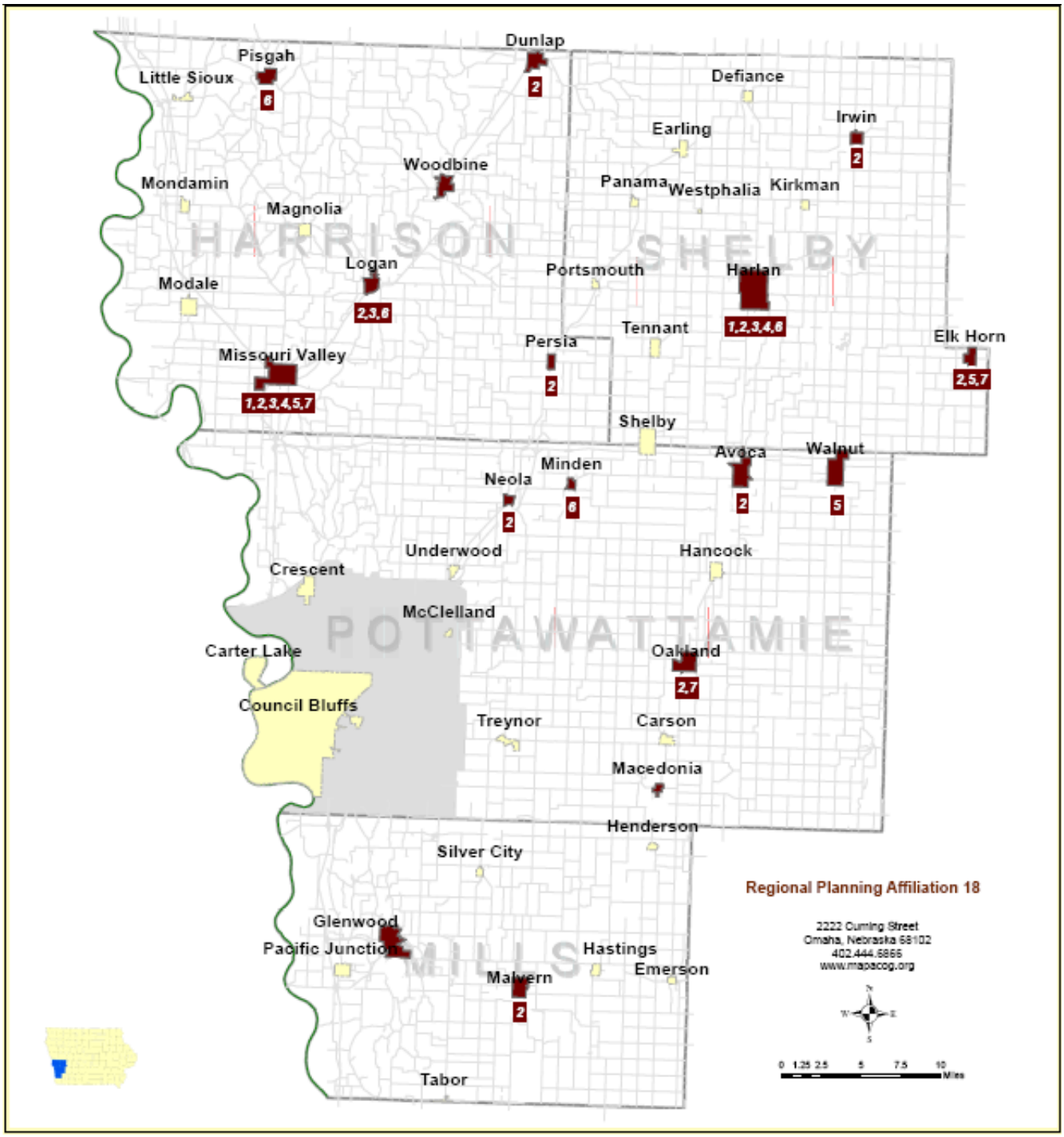


Figure 9-10: Ottumwa Transit Routes



Area 15 Regional Planning Commission: October 2007



Legend

Cities with SWITA Services

Iowa portion of MPO

SWITA Major Trip Destination Services

1 - Medical
2 - Senior Center
3 - Shopping
4 - Work
5 - Tourist
6 - Head Start
7 - School

map 10

Figure 2.4 Agency Road and West Burlington Avenue Intersection Turning Movements

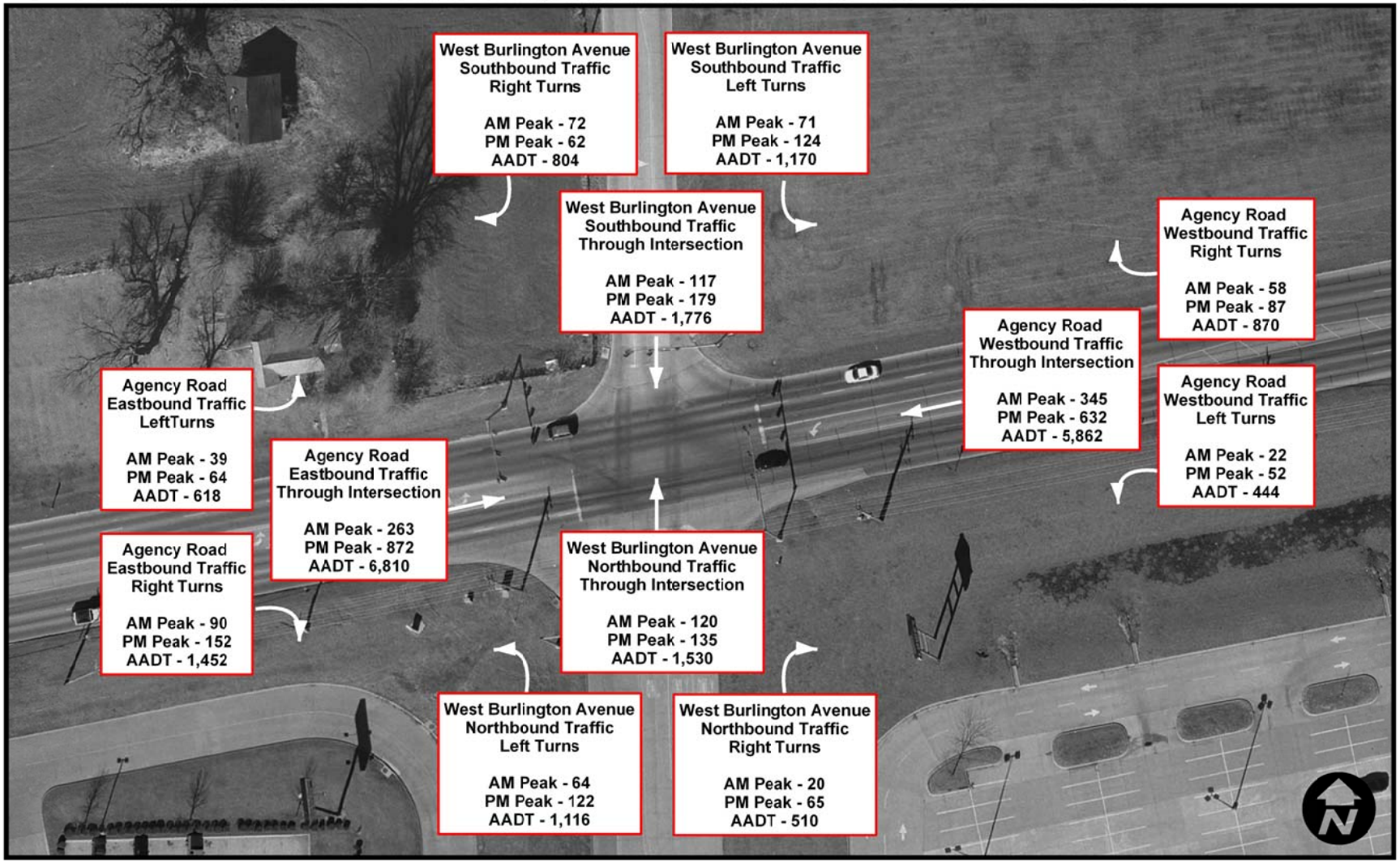
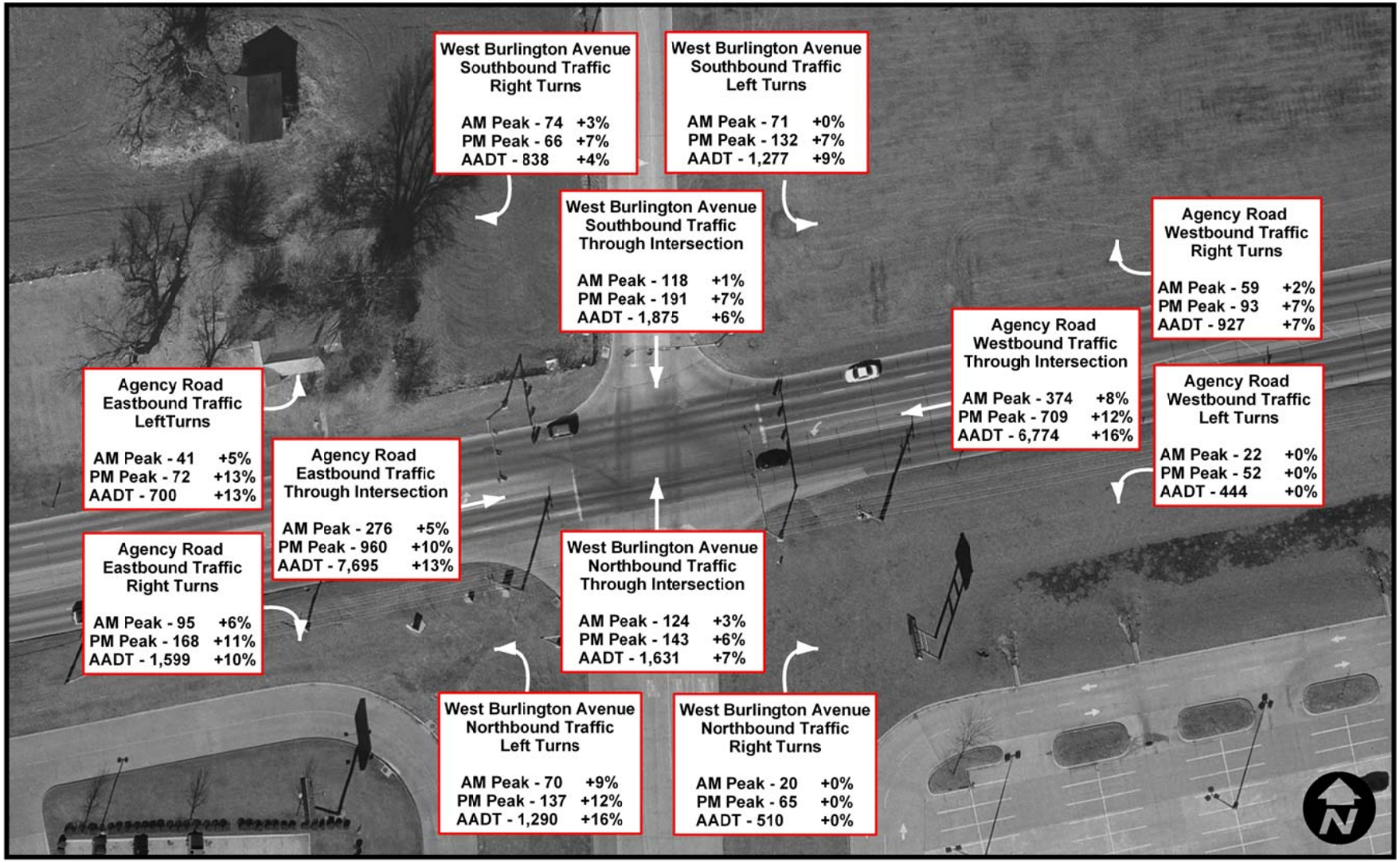
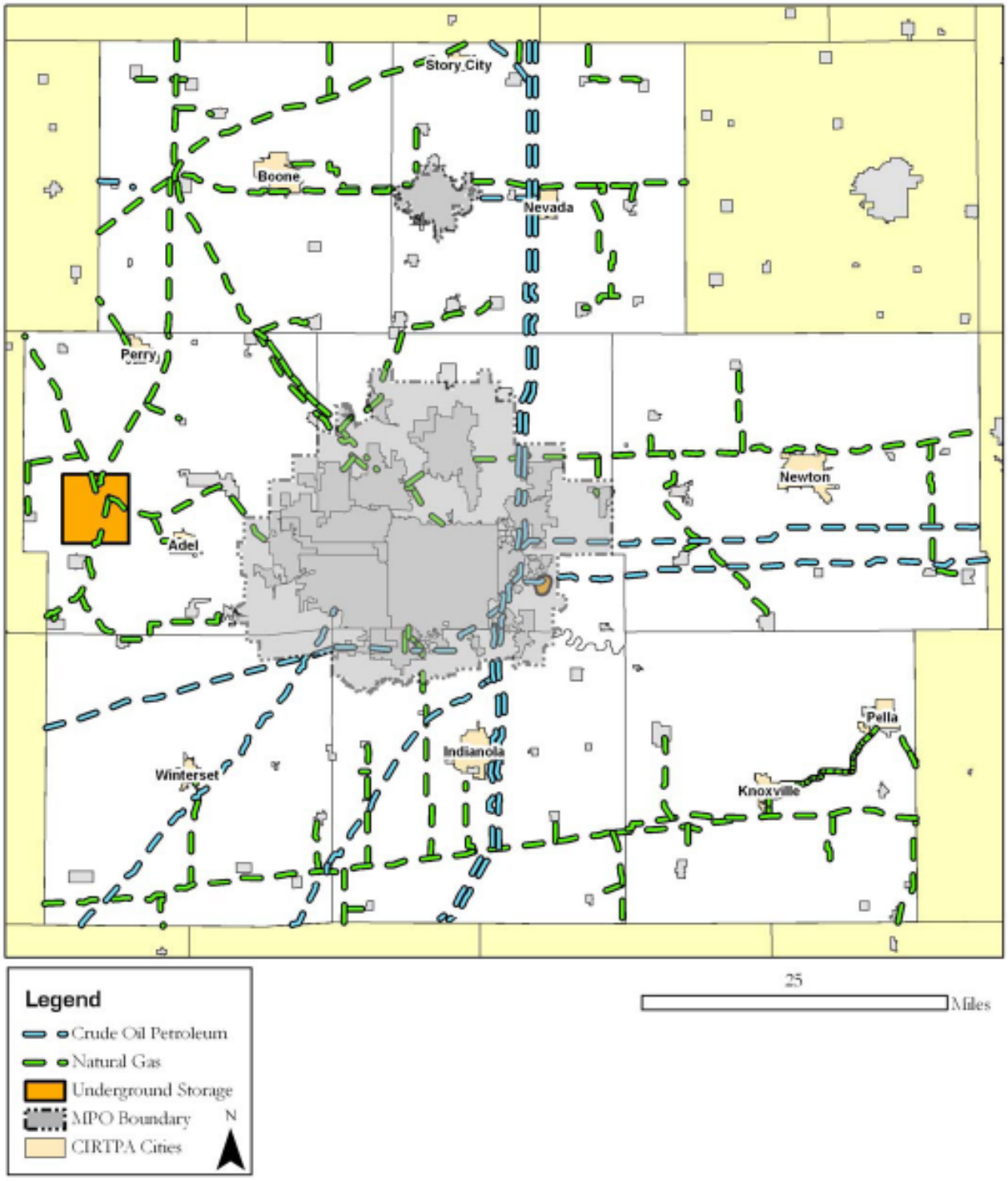


Figure 3.6 Agency Road and West Burlington Avenue Intersection Future Turning Movements



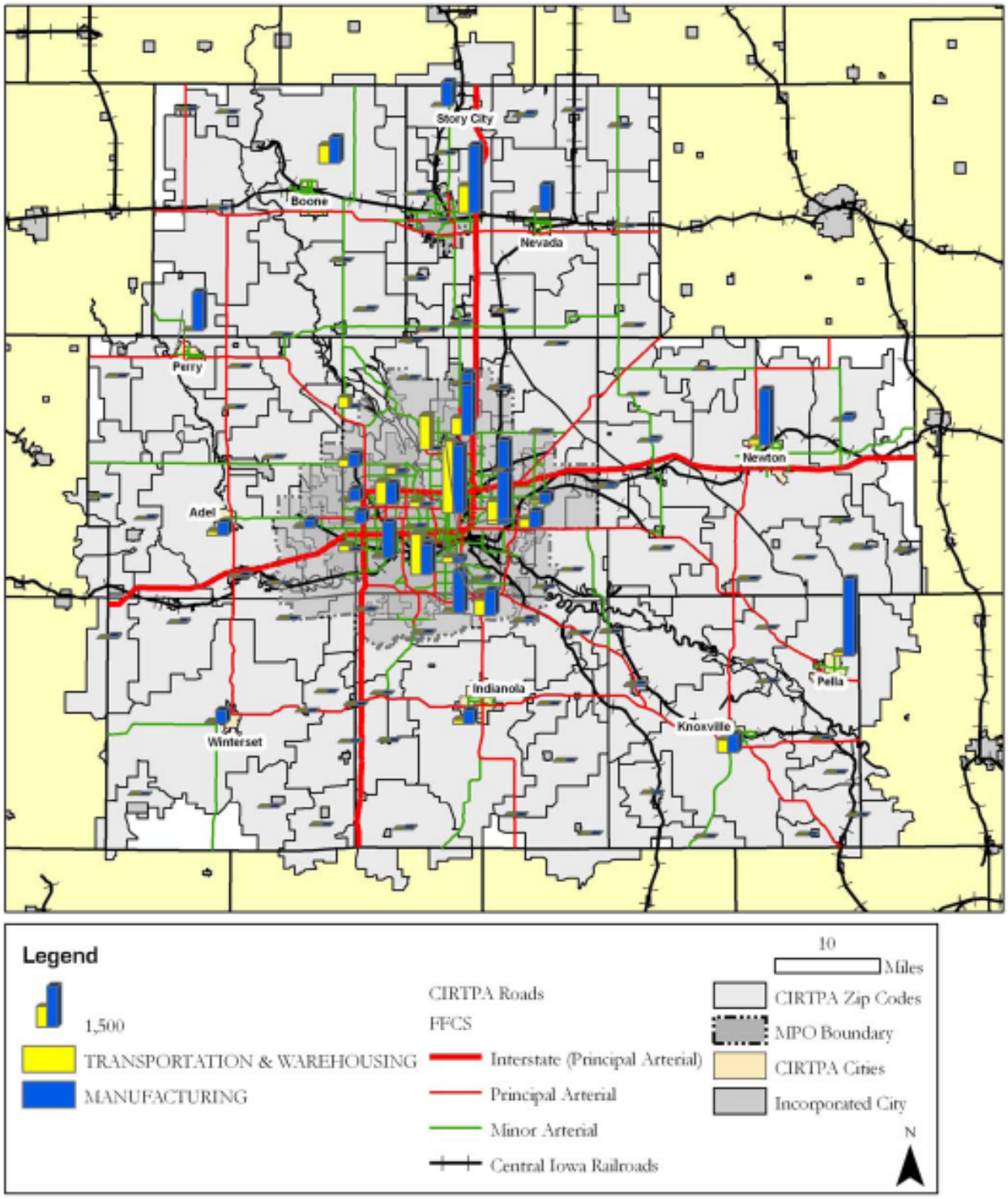
Pipelines (continued)

Figure 21: Pipelines



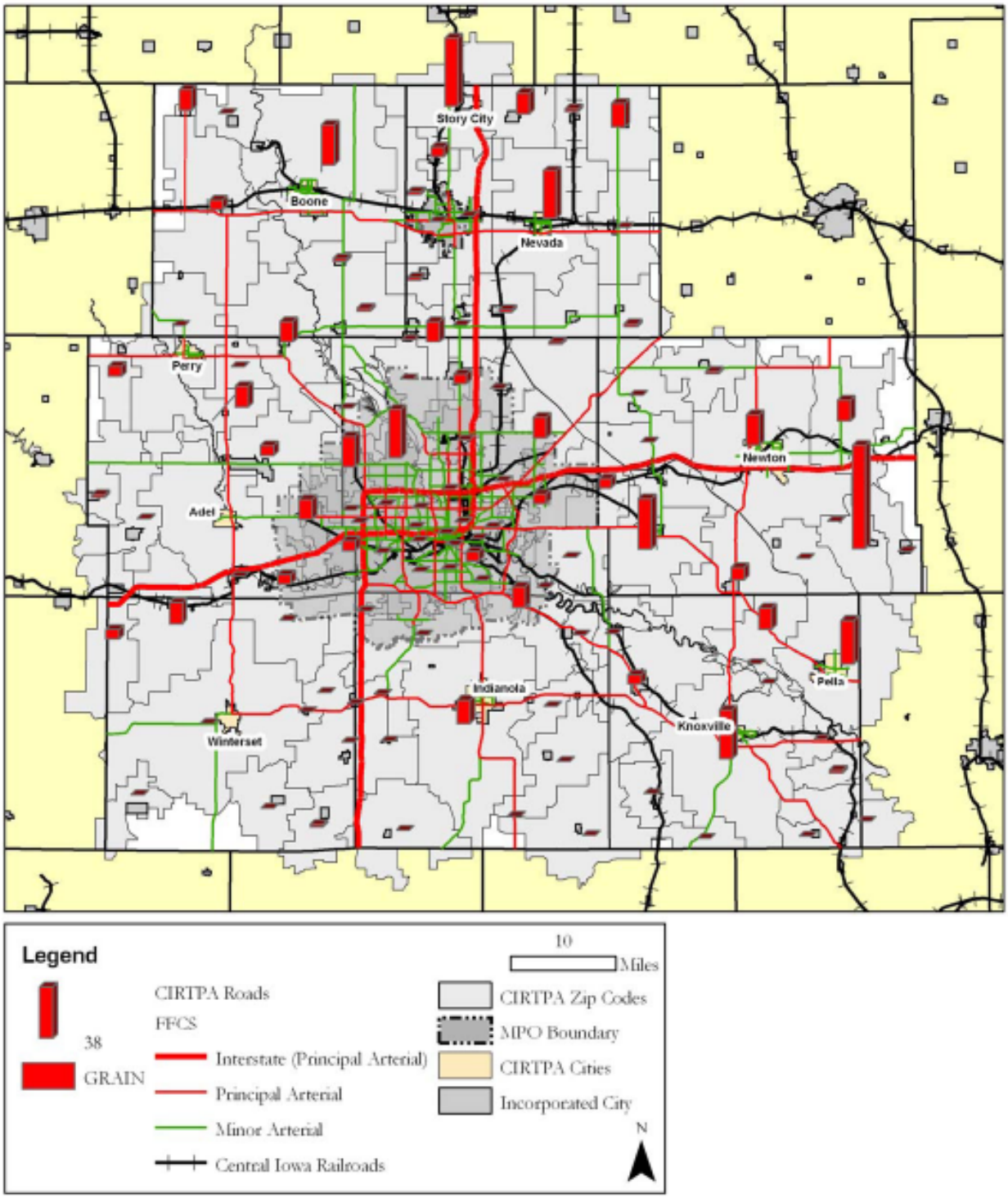
Freight (continued)

Figure 23: Freight Generating Industries: Transportation, Warehousing, and Manufacturing



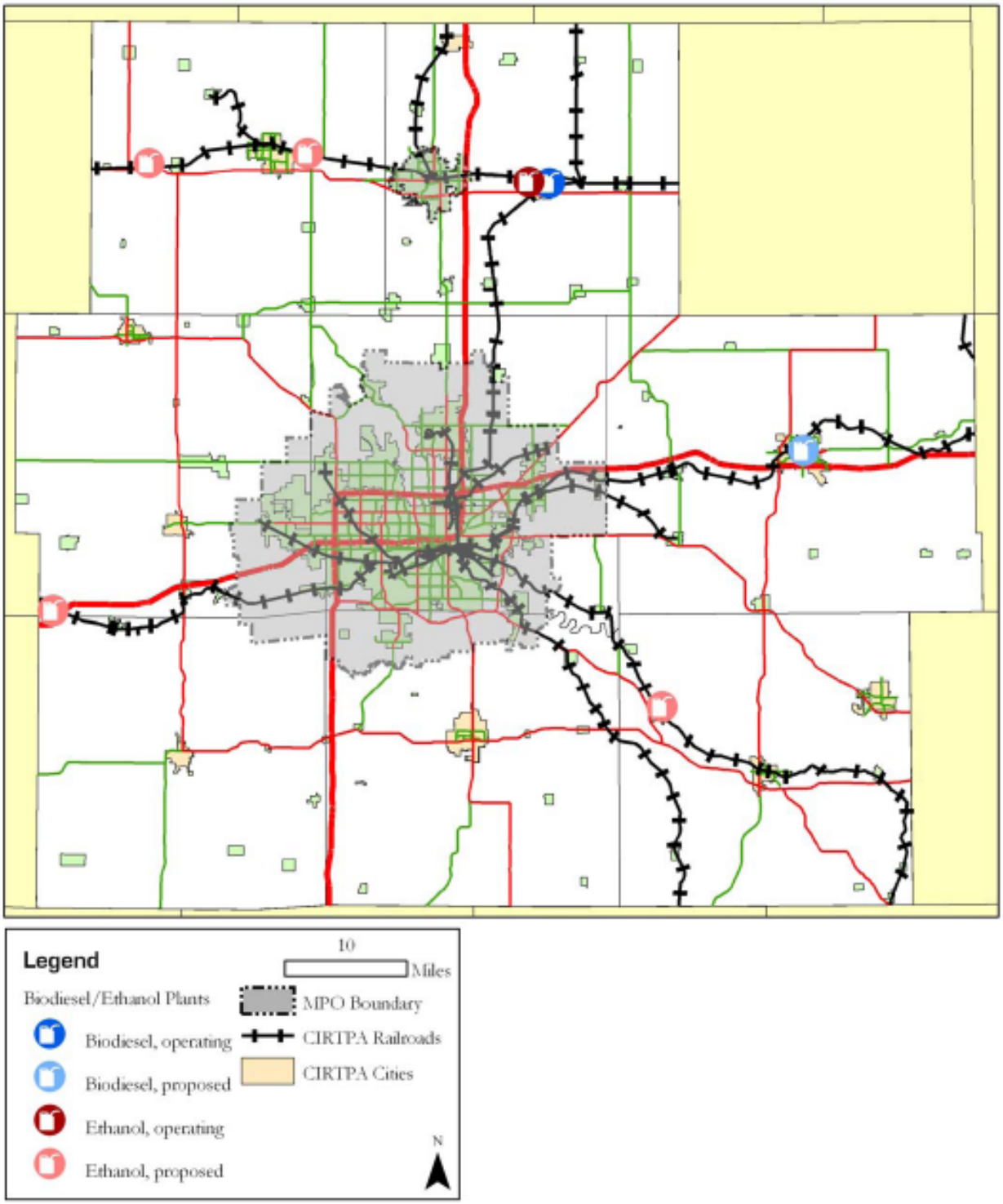
Freight (continued)

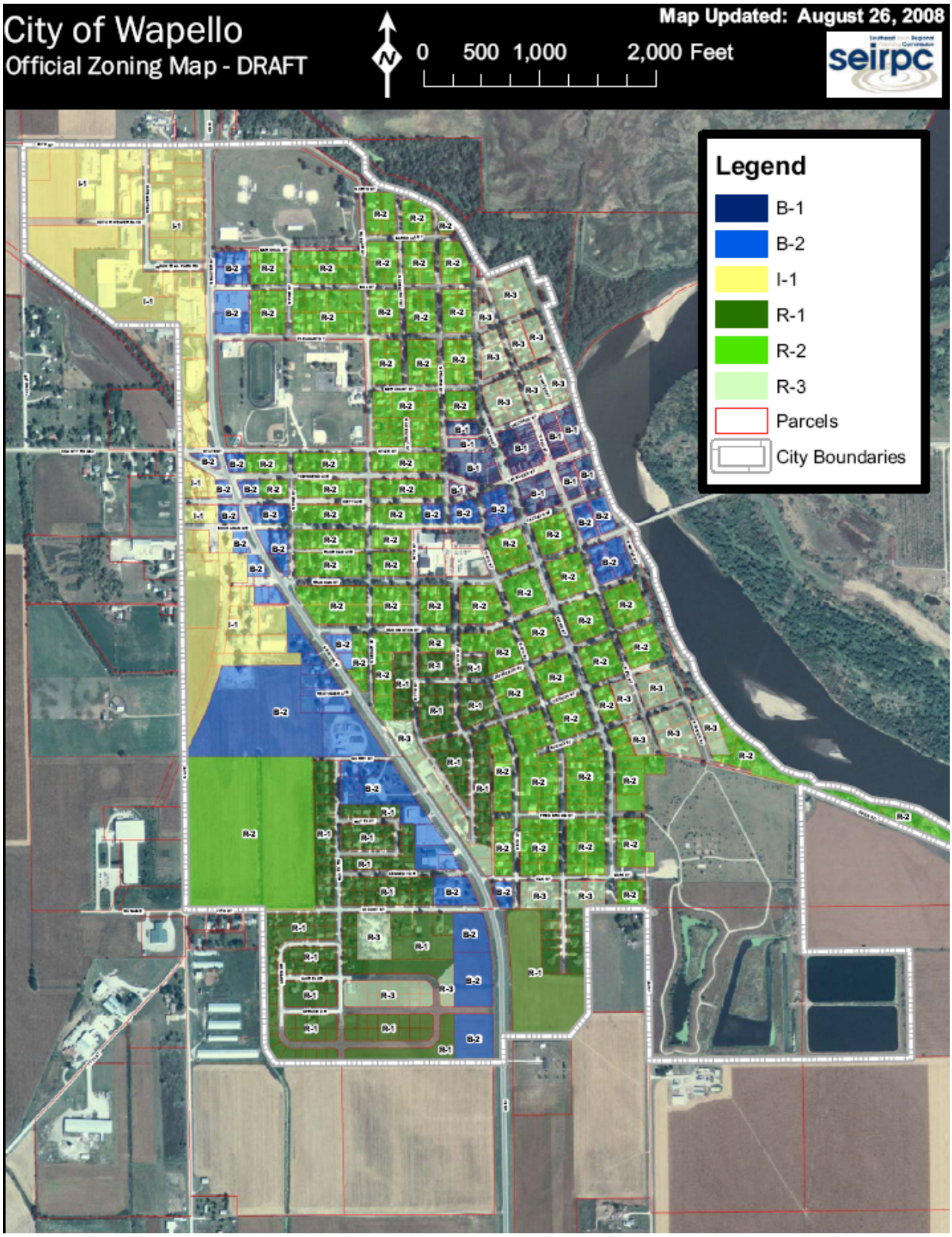
Figure 24: Freight Generating Industries: Grain Facilities



Freight (continued)

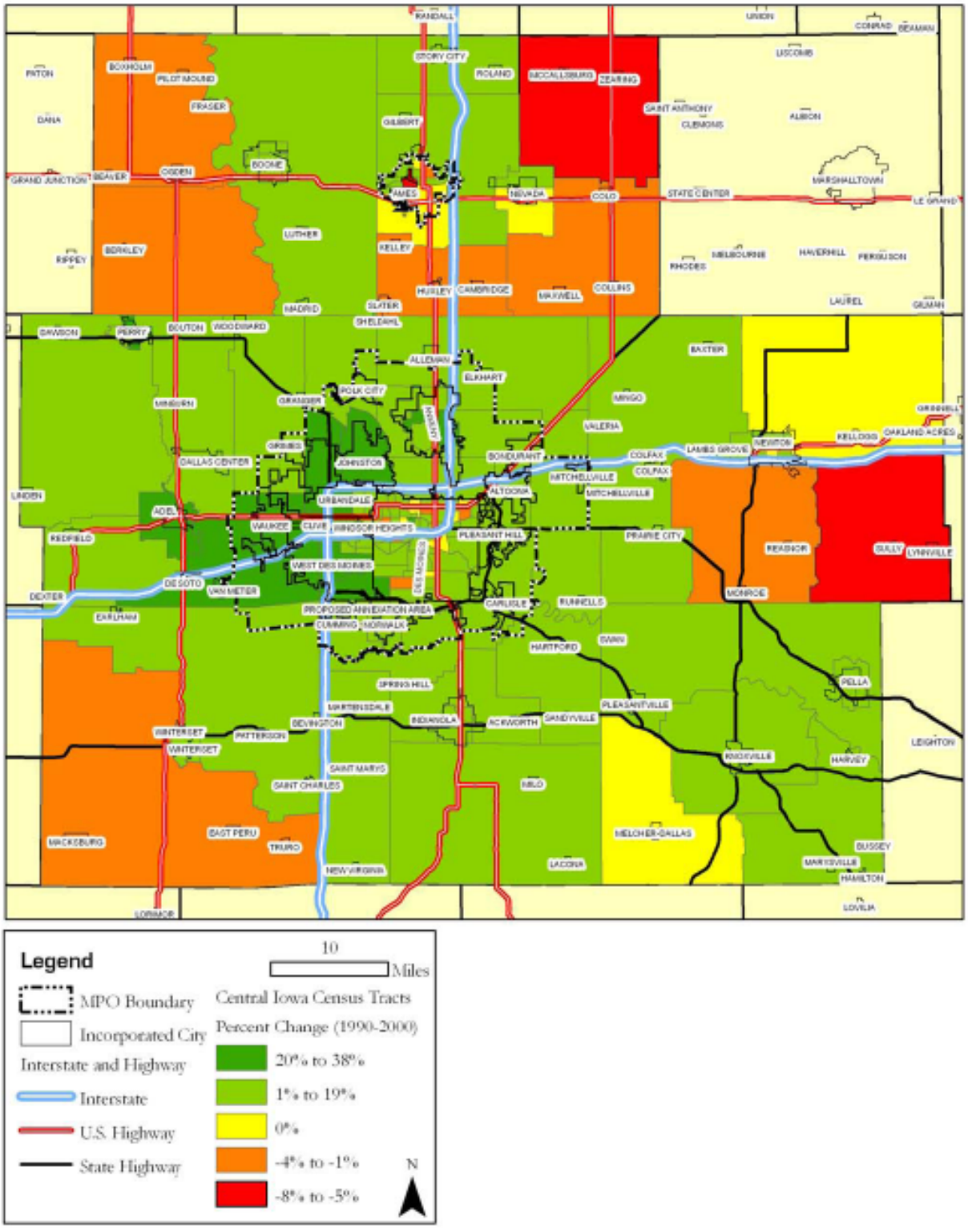
Figure 25: Biodiesel and Ethanol Plants




City of Wapello
Official Zoning Map - DRAFT
Map Updated: August 26, 2008
0 500 1,000 2,000 Feet
seirpc
Legend
B-1
B-2
I-1
R-1
R-2
R-3
Parcels
City Boundaries

Socioeconomic and Land Use Data (continued)

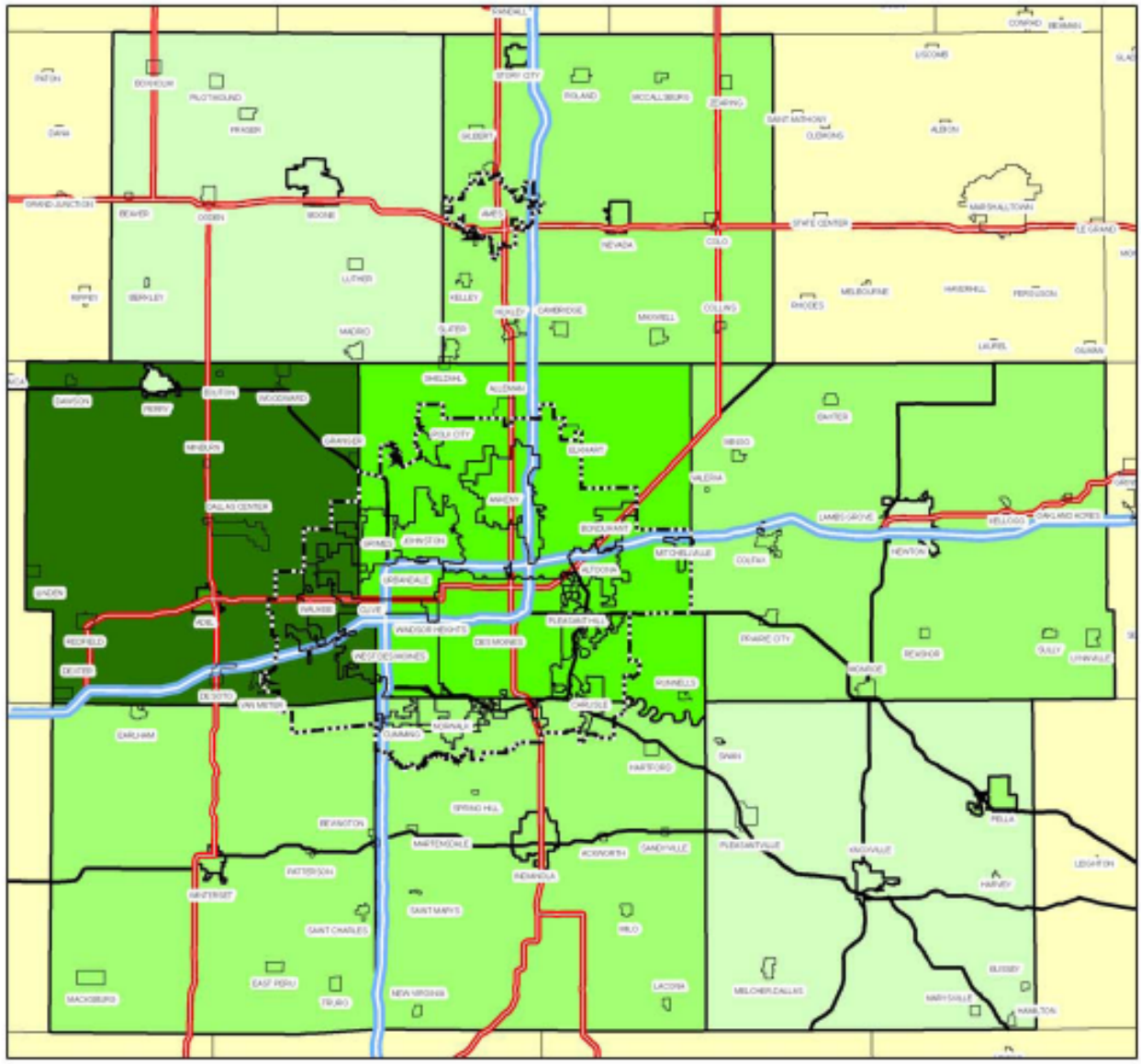
Figure 2: Population Change (1990 to 2000)



Iowa Department of Transportation

Socioeconomic and Land Use Data (continued)

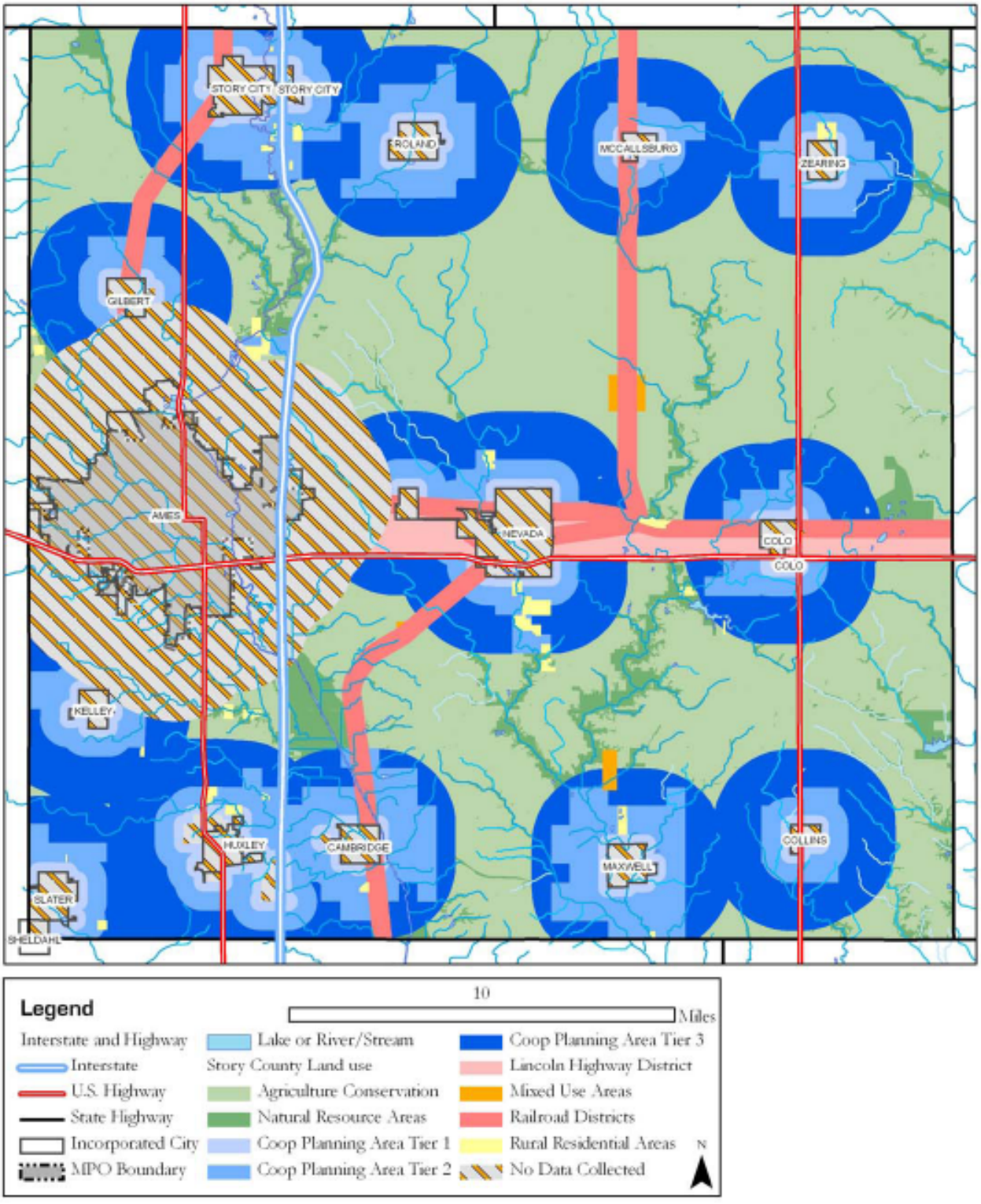
Figure 3: Estimated Population Change from 2000 to 2030



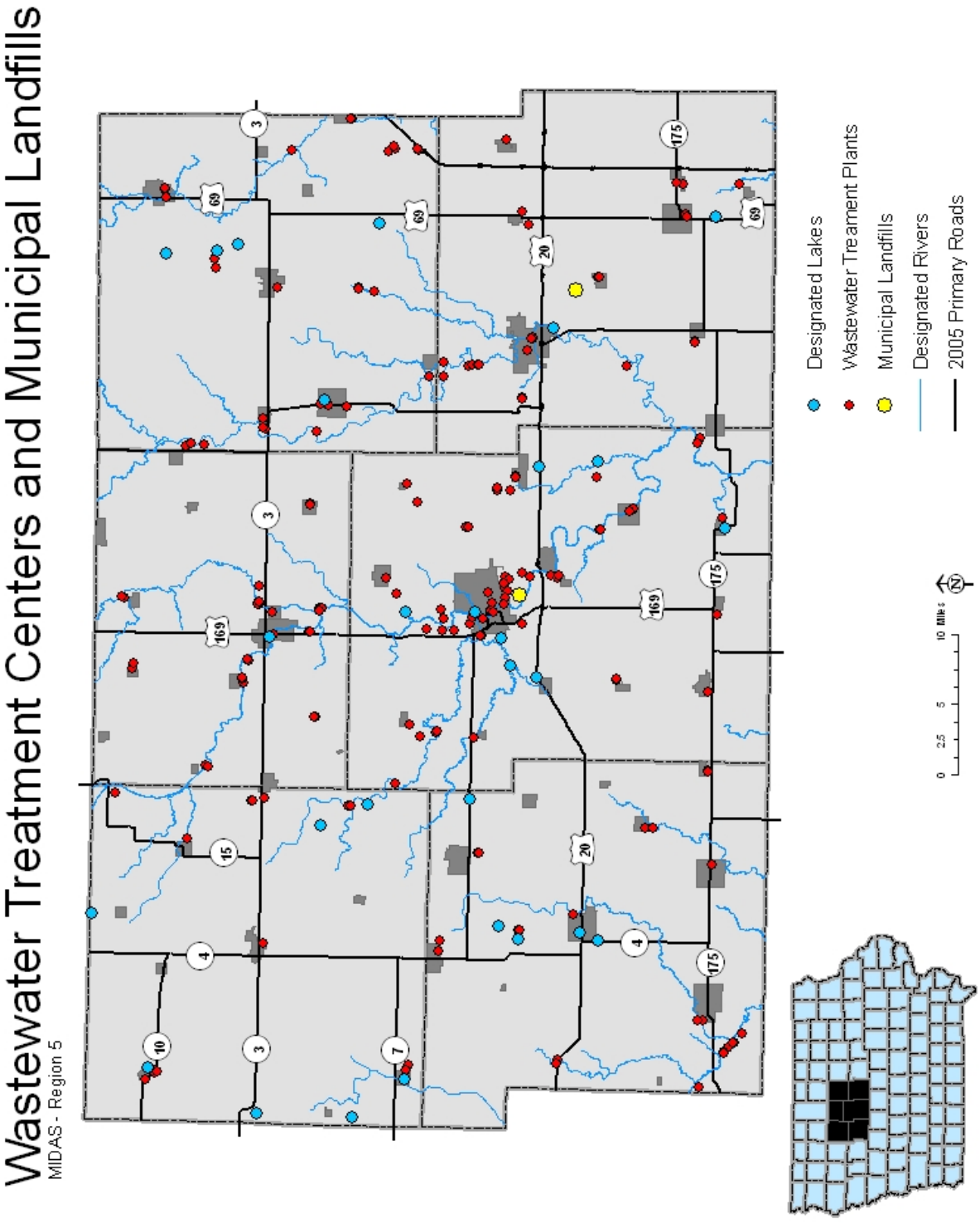
Iowa Department of Transportation

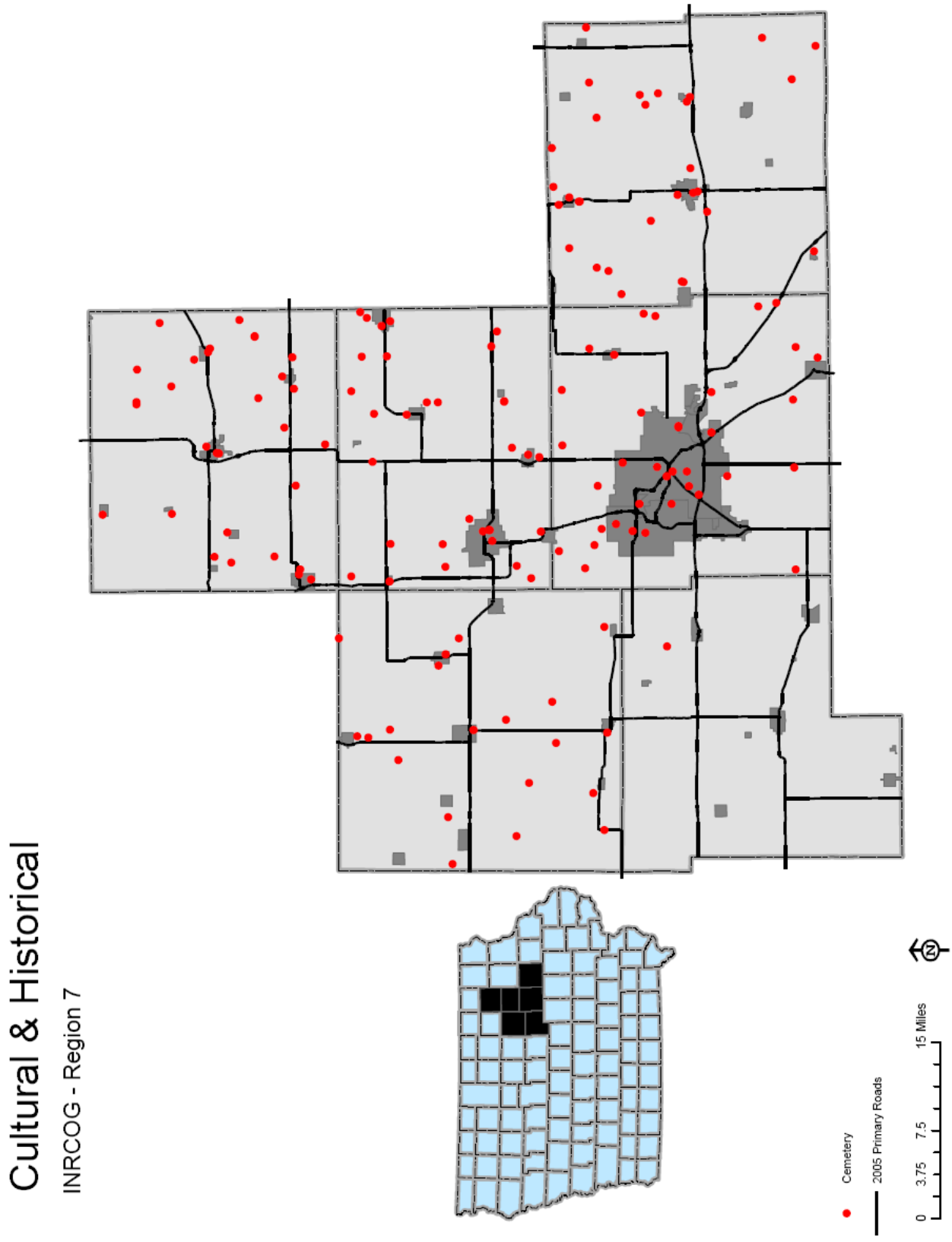
Socioeconomic and Land Use Data (continued)

Figure 10: Story County Land Use



Legend
Agricultural Area
Residential Area
Commercial Area
Industrial Area
Recreational Area
Public Park Area
Old Landfill / Dump Site
Bluff Land Protection Area
Cedar County 100-yr Flood Plain
No Flood Plain Data Available
City Area
County Border
Township Boundary
Section Lines
I - 80
US & IA Highways
Paved Roads
Gravel Roads
Class "B" Roads
Rivers & Lakes
Railroad
N
CEDAR COUNTY, IA
Future Land Use Map
Map 10
- 37 -
CLINTON CO.
SCOTT CO.
JONES CO.
LINN CO.
JOHNSON CO.
MUSCATINE CO.
DAYTON
MASSILLON
LOWDEN
SPRINGFIELD
BENNETT
DURANT
WILTON
STANWOOD
CLARENCE
FAIRFIELD
CENTER
INLAND
SUGAR CREEK
PARKINGTON
MECHANICSVILLE
PENMONT
RED OAK
TIPTON
ROCHESTER
PIONEER
CASS
WEST BRANCH
SPRINGDALE
IOWA

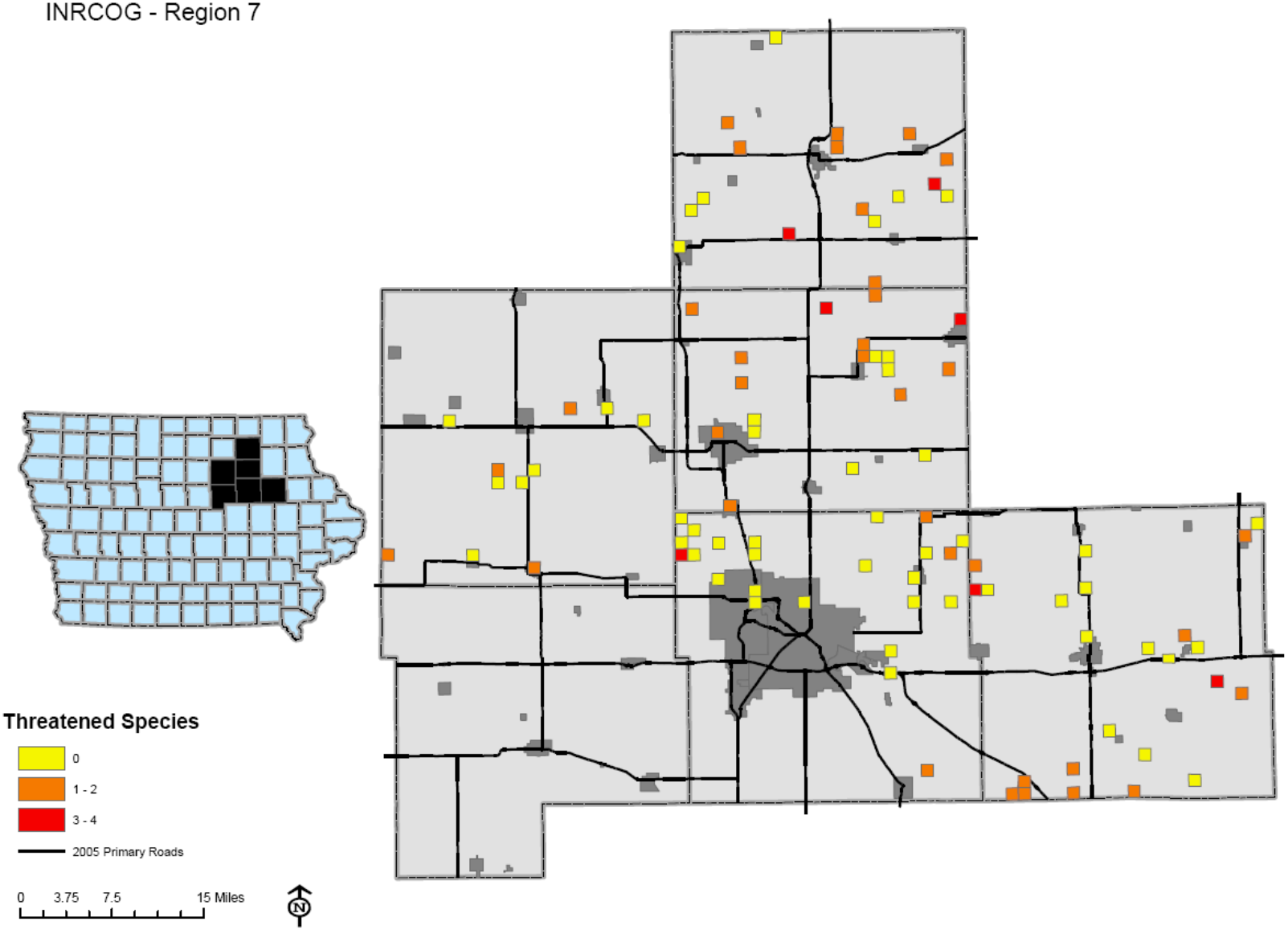

Wastewater Treatment Centers and Municipal Landfills
MIDAS - Region 5
Designated Lakes
Wastewater Treament Plants
Municipal Landfills
Designated Rivers
2005 Primary Roads
0 2.5 5 10 Miles
N

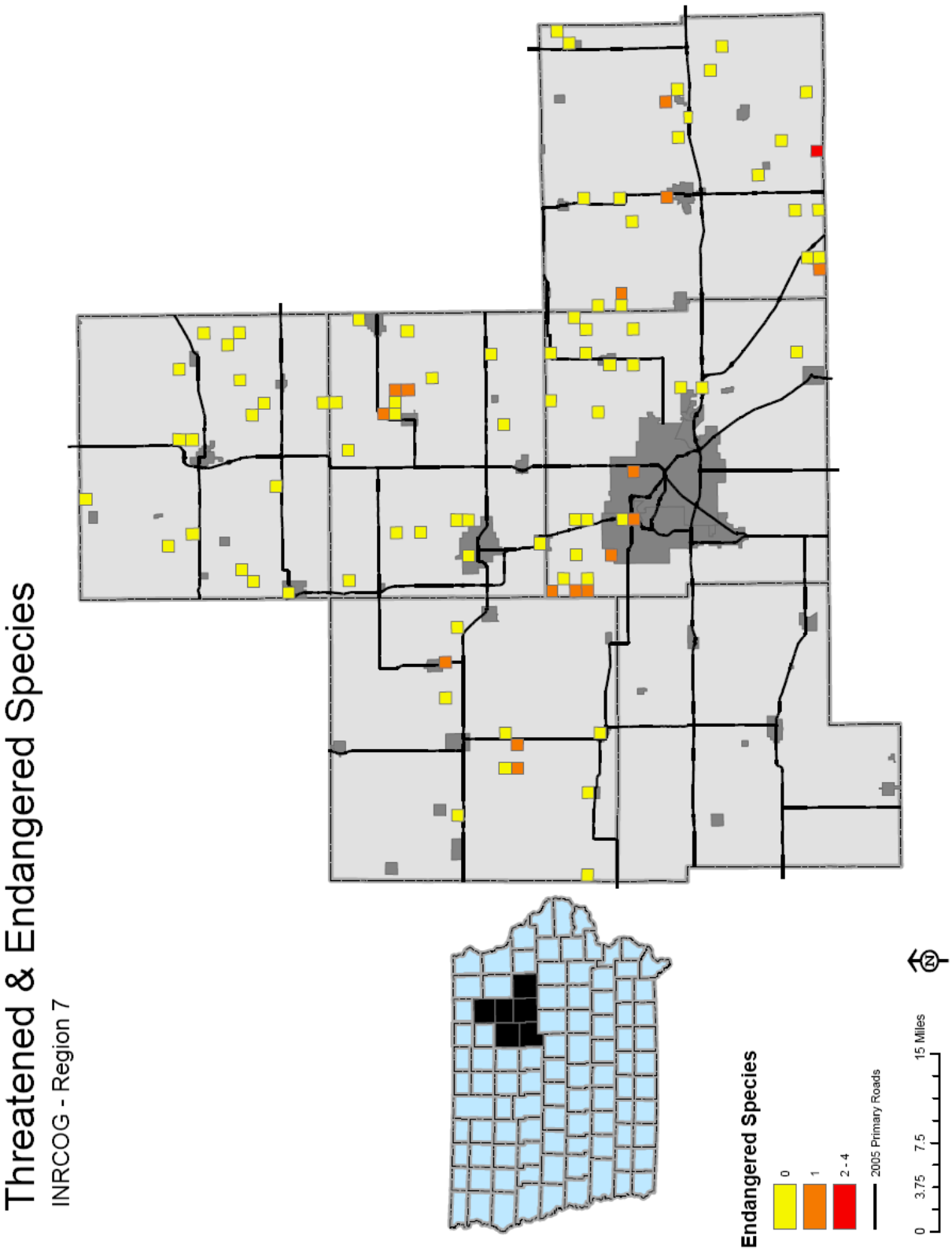


Iowa Department of Transportation

Threatened & Endangered Species

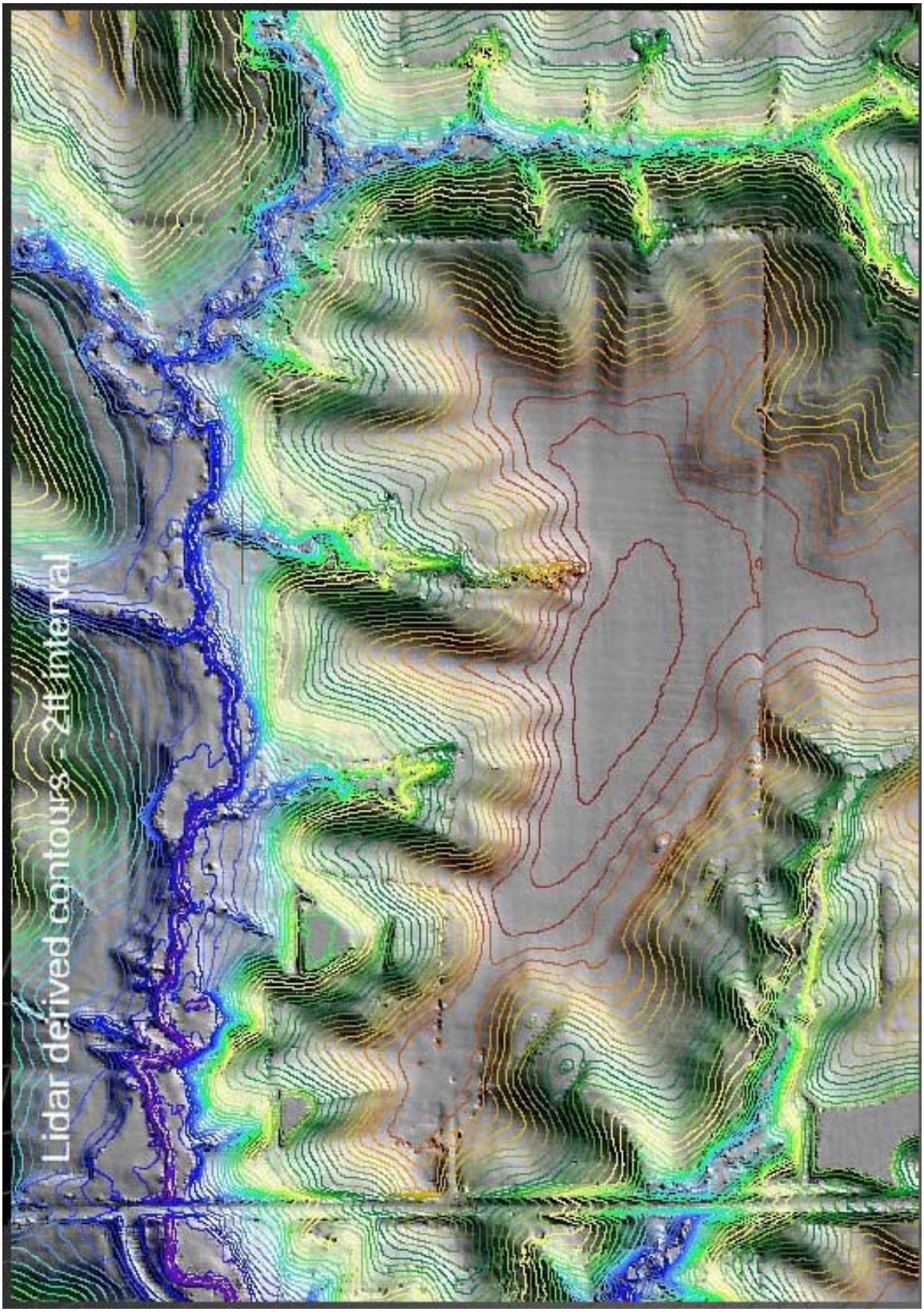
INRCOG - Region 7

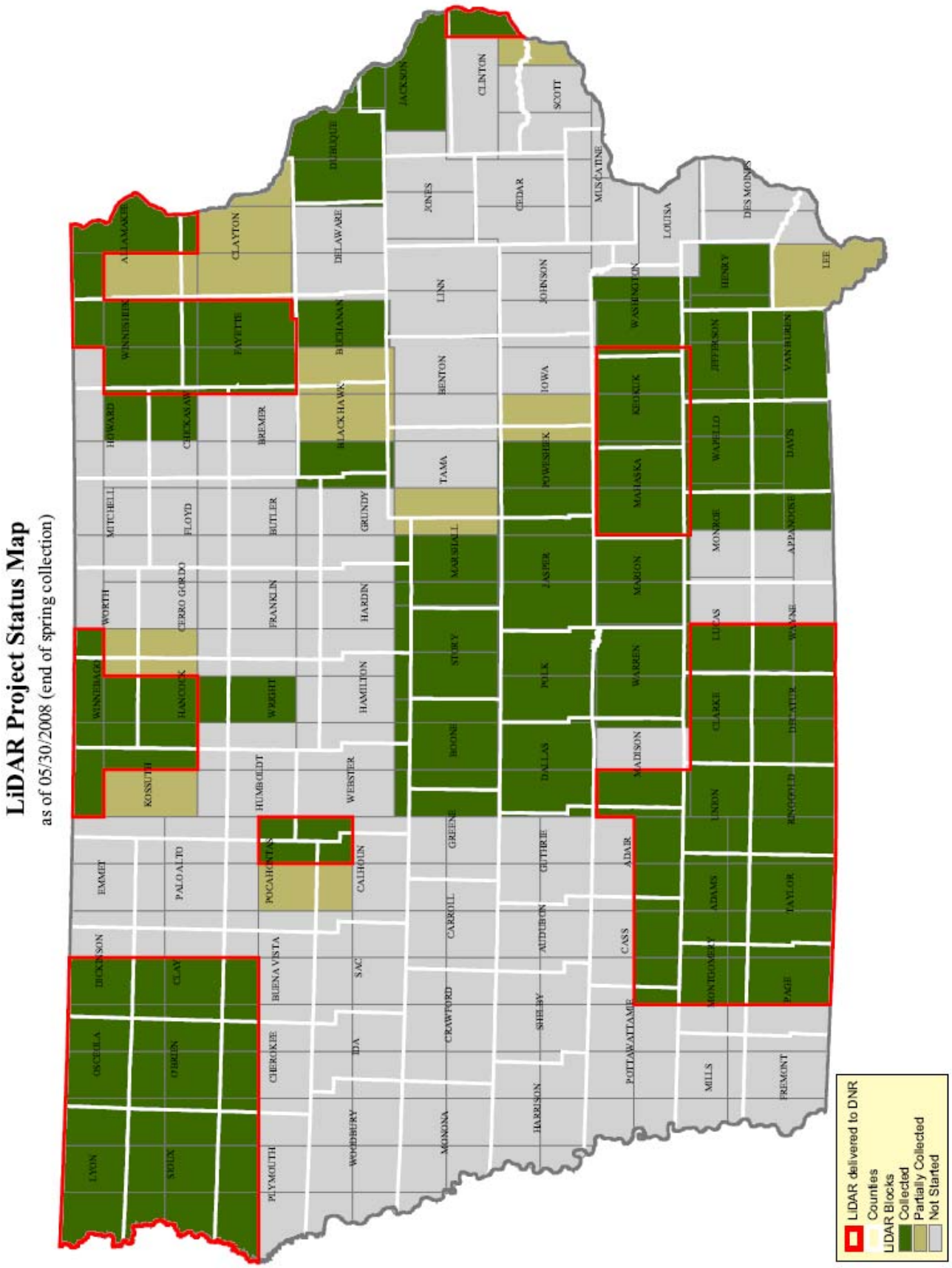




Iowa Department of Transportation

CIR Draped over LiDAR


Lidar derived contours - 2ft interval



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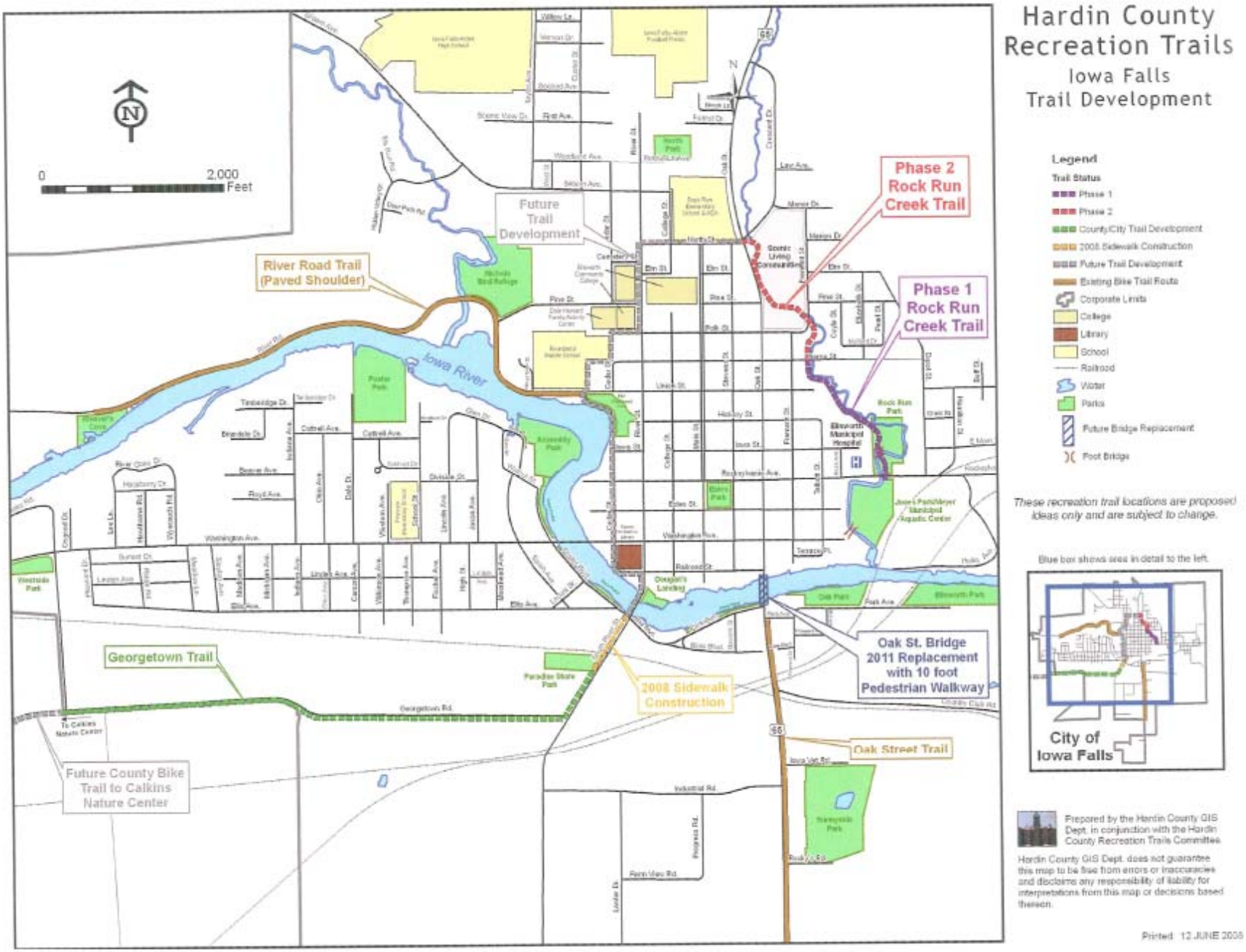
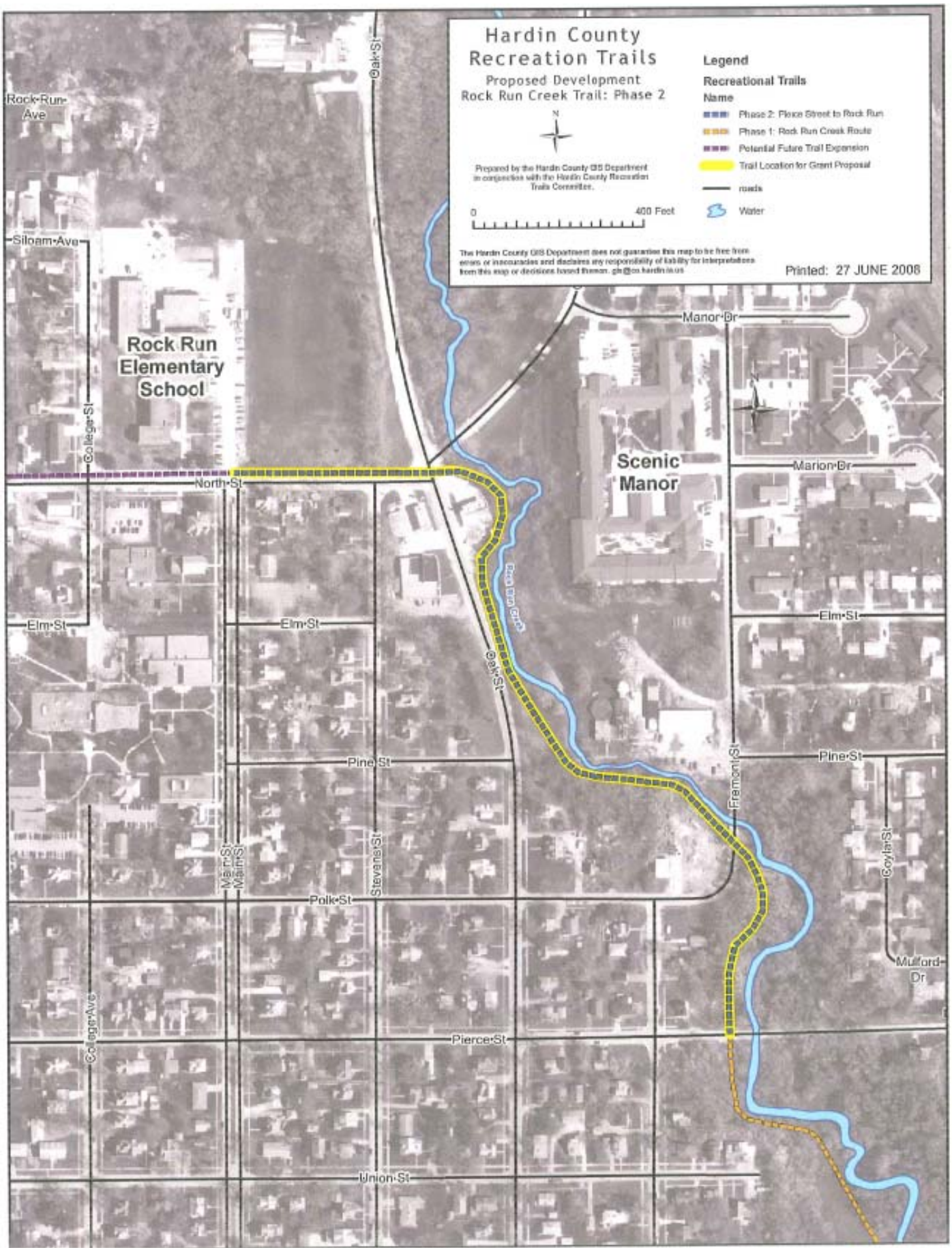
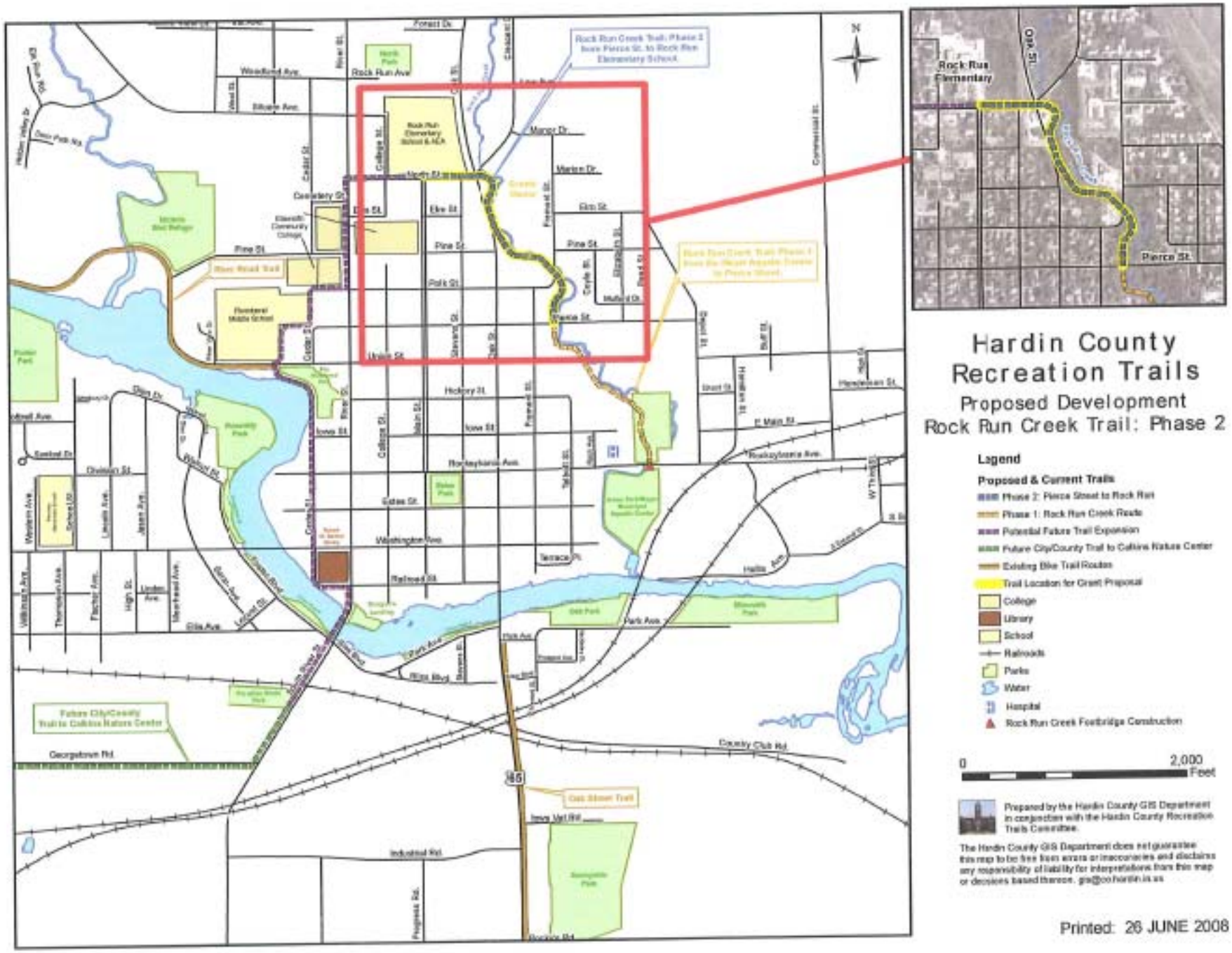

Hardin County
Recreation Trails
Iowa Falls
Trail Development
Legend
Trail Status
Phase 1
Phase 2
County/City Trail Development
2008 Sidewalk Construction
Future Trail Development
Existing Bike Trail Route
Corporate Limits
College
Library
School
Railroad
Water
Parks
Future Bridge Replacement
Foot Bridge
0
2,000
Feet
N
Future Trail Development
River Road Trail (Paved Shoulder)
Phase 2 Rock Run Creek Trail
Phase 1 Rock Run Creek Trail
Iowa River
Georgetown Trail
2008 Sidewalk Construction
Oak St. Bridge 2011 Replacement with 10 foot Pedestrian Walkway
Oak Street Trail
Future County Bike Trail to Calkins Nature Center
These recreation trail locations are proposed ideas only and are subject to change.
Blue box shows area in detail to the left.
City of Iowa Falls
Prepared by the Hardin County GIS Dept. in conjunction with the Hardin County Recreation Trails Committee.
Hardin County GIS Dept. does not guarantee this map to be free from errors or inaccuracies and disclaims any responsibility of liability for interpretations from this map or decisions based thereon.
Printed: 12 JUNE 2008


Hardin County
Recreation Trails
Proposed Development
Rock Run Creek Trail: Phase 2
N
Prepared by the Hardin County GIS Department in conjunction with the Hardin County Recreation Trails Committee.
0
400 Feet
Legend
Recreational Trails
Name
Phase 2: Plaza Street to Rock Run
Phase 1: Rock Run Creek Route
Potential Future Trail Expansion
Trail Location for Grant Proposal
roads
Water
The Hardin County GIS Department does not guarantee this map to be free from errors or inaccuracies and disclaims any responsibility of liability for interpretations from this map or decisions based thereon. gis@co.hardin.ia.us
Printed: 27 JUNE 2008
Rock Run Ave
Siloam Ave
Oak St
Rock Run Elementary School
College St
North St
Manor Dr
Scenic Manor
Marion Dr
Elm St
Elm St
Elm St
Rock Run Creek
Oak St
Pine St
Pine St
Fremont St
Main St
Main St
Stevens St
Polk St
Coyla St
Mulford Dr
College Ave
Pierce St
Union St


Rock Run Creek Trail: Phase 2
from Pierce St. to Rock Run Elementary School
Rock Run Elementary
Oak St.
Pierce St.
Hardin County
Recreation Trails
Proposed Development
Rock Run Creek Trail: Phase 2
Legend
Proposed & Current Trails
Phase 2: Pierce Street to Rock Run
Phase 1: Rock Run Creek Route
Potential Future Trail Expansion
Future City/County Trail to Collins Nature Center
Existing Bike Trail Routes
Trail Location for Grant Proposal
College
Library
School
Railroads
Parks
Water
Hospital
Rock Run Creek Footbridge Construction
0
2,000
Feet
Prepared by the Hardin County GIS Department in conjunction with the Hardin County Recreation Trails Committee.
The Hardin County GIS Department does not guarantee this map to be free from errors or inaccuracies and disclaims any responsibility of liability for interpretations from this map or decisions based thereon. gis@co.hardin.ia.us
Printed: 26 JUNE 2008

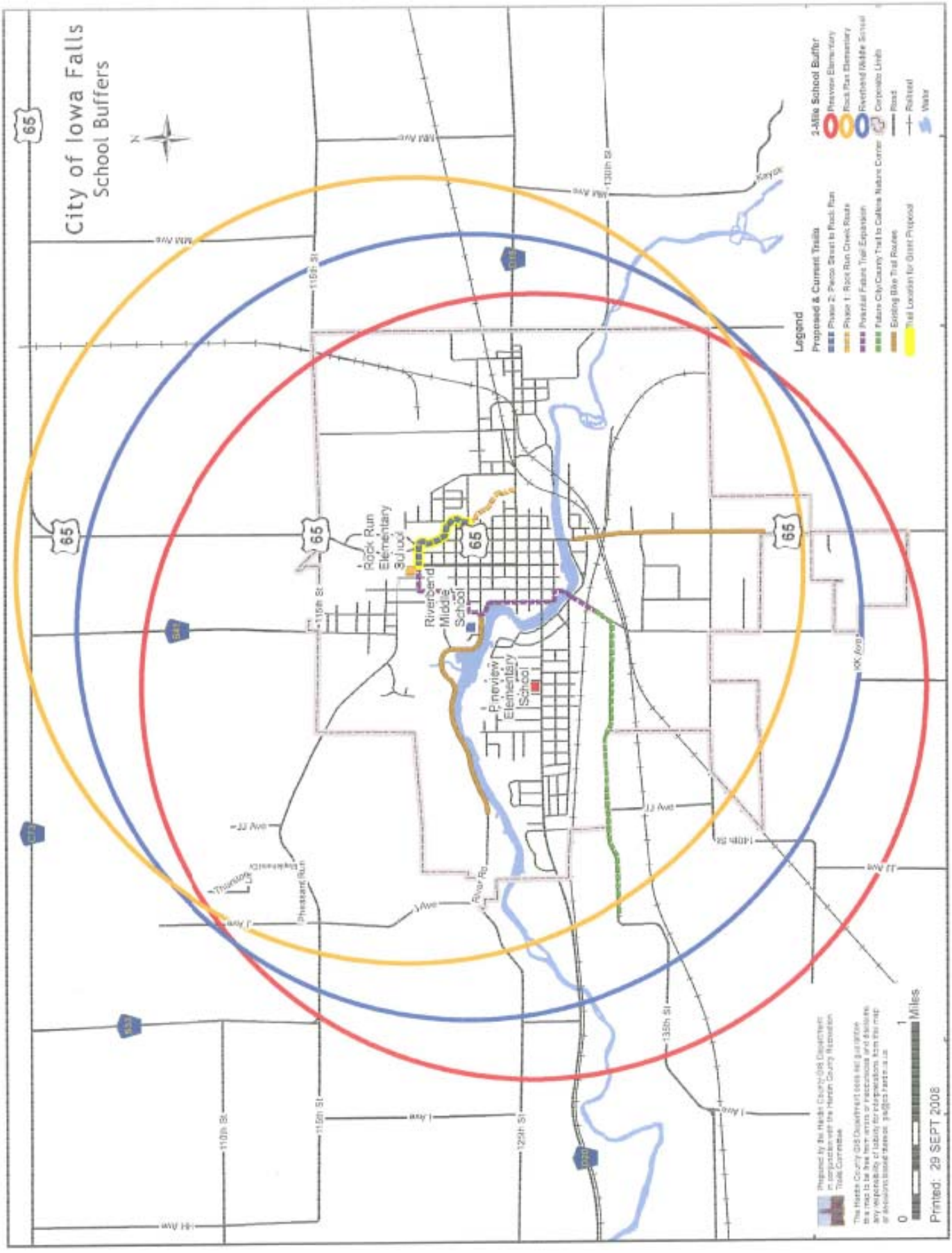

City of Iowa Falls
School Buffers
Legend
Proposed & Current Trails
Phase 2: Pierce Street to Rock Run
Phase 1: Rock Run Creek Route
Potential Future Trail Expansion
Future City/County Trail to Calkins Nature Center
Existing Bike Trail Routes
Trail Location for Grant Proposal
2-Mile School Buffer
Peterson Elementary
Rock Run Elementary
Riverbend Middle School
Corporate Limits
Road
Railroad
Water
Rock Run Elementary School
Riverbend Middle School
Prairieview Elementary School
Miles
Printed: 29 SEPT 2008

Figure 6.1 New London Sidewalk Conditions
Cartography by: Nick Stark
seirpc
0
0.1
Miles
N
Legend
Schools
Sidewalk Obstructions
City Boundaries
Sidewalk Condition
Poor
Fair
Good

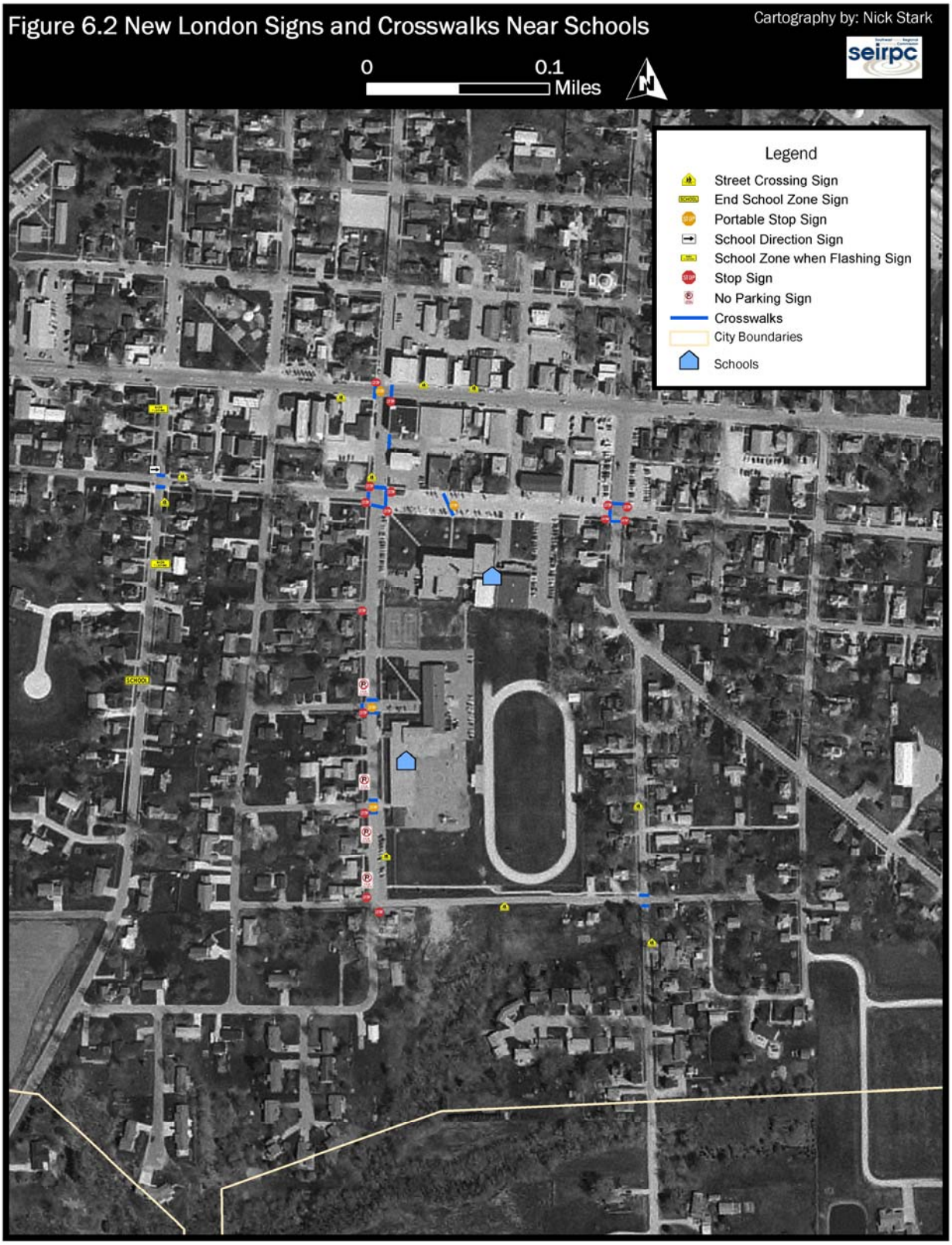
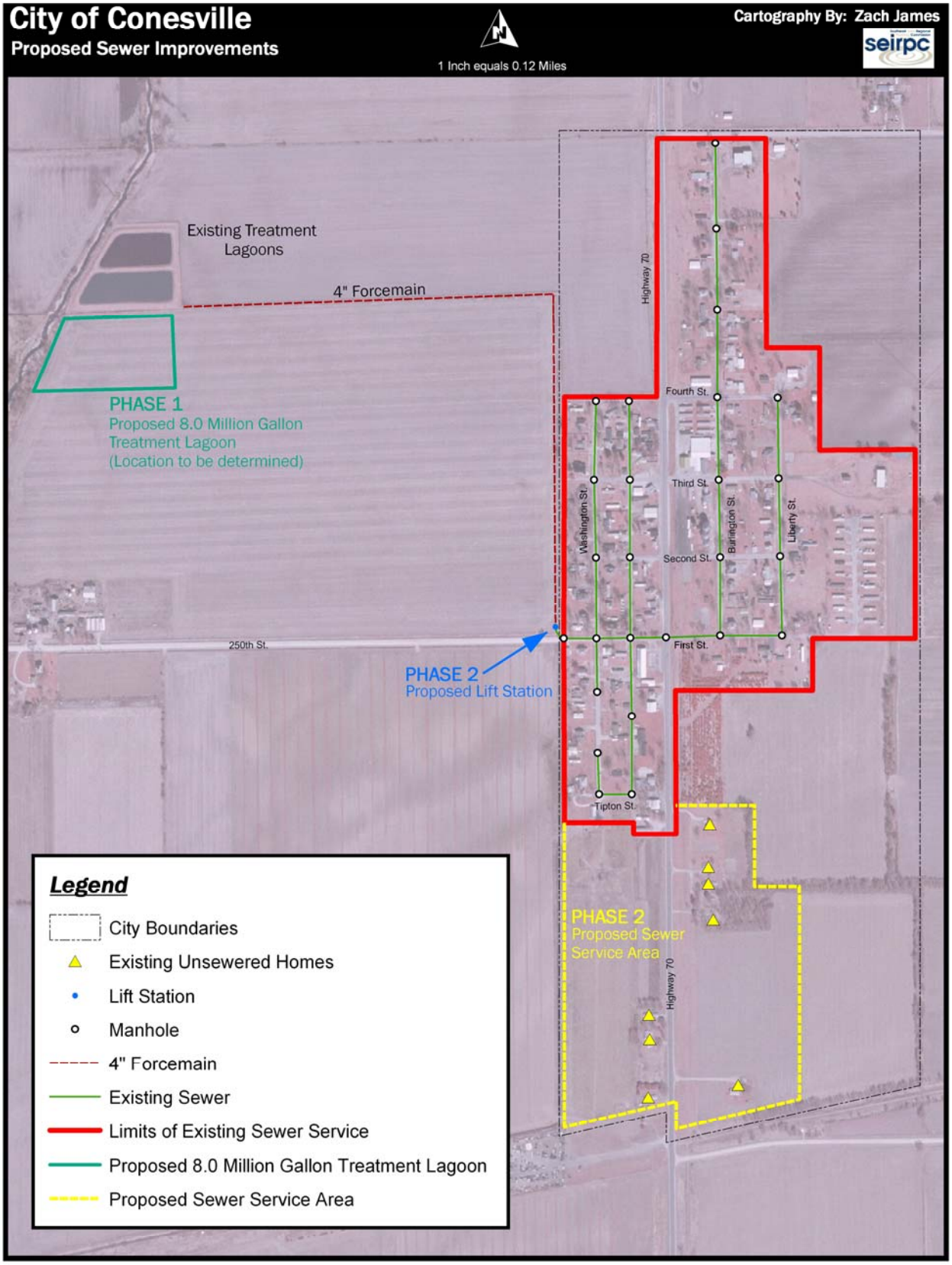
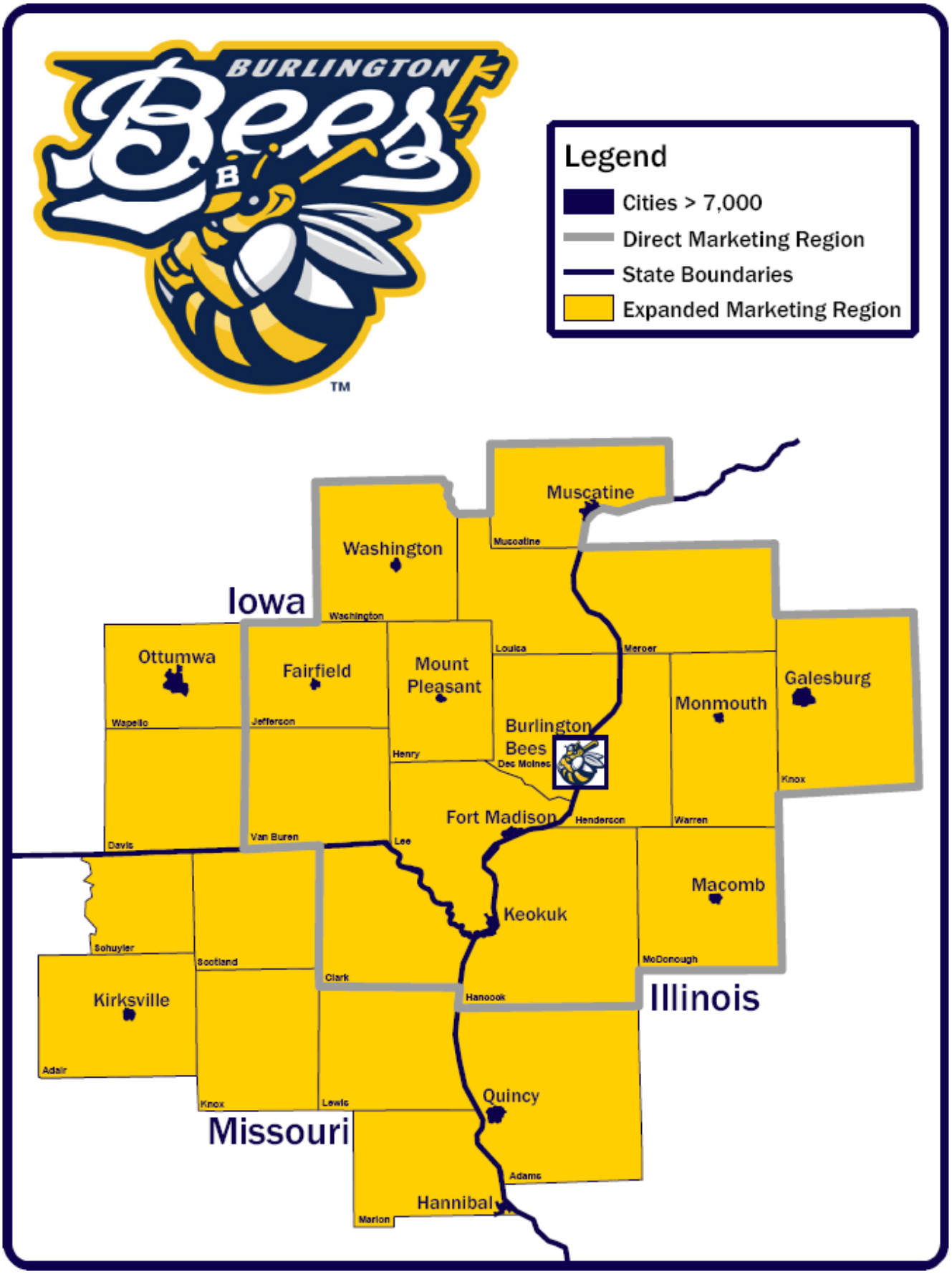


Figure 6.2 New London Signs and Crosswalks Near Schools
Cartography by: Nick Stark
seirpc
0
0.1
Miles
Legend
Street Crossing Sign
End School Zone Sign
Portable Stop Sign
School Direction Sign
School Zone when Flashing Sign
Stop Sign
No Parking Sign
Crosswalks
City Boundaries
Schools


City of Conesville
Proposed Sewer Improvements
1 Inch equals 0.12 Miles
Cartography By: Zach James
seirpc
Existing Treatment Lagoons
4" Forcemain
PHASE 1
Proposed 8.0 Million Gallon Treatment Lagoon
(Location to be determined)
Highway 70
Fourth St.
Third St.
Second St.
First St.
Washington St.
Burlington St.
Liberty St.
250th St.
PHASE 2
Proposed Lift Station
Tipton St.
PHASE 2
Proposed Sewer Service Area
Highway 70
Legend
City Boundaries
Existing Unsewered Homes
Lift Station
Manhole
4" Forcemain
Existing Sewer
Limits of Existing Sewer Service
Proposed 8.0 Million Gallon Treatment Lagoon
Proposed Sewer Service Area

Iowa Department of Transportation



Iowa Department of Transportation

Figure 11b: Income Group Distribution by Census Tract

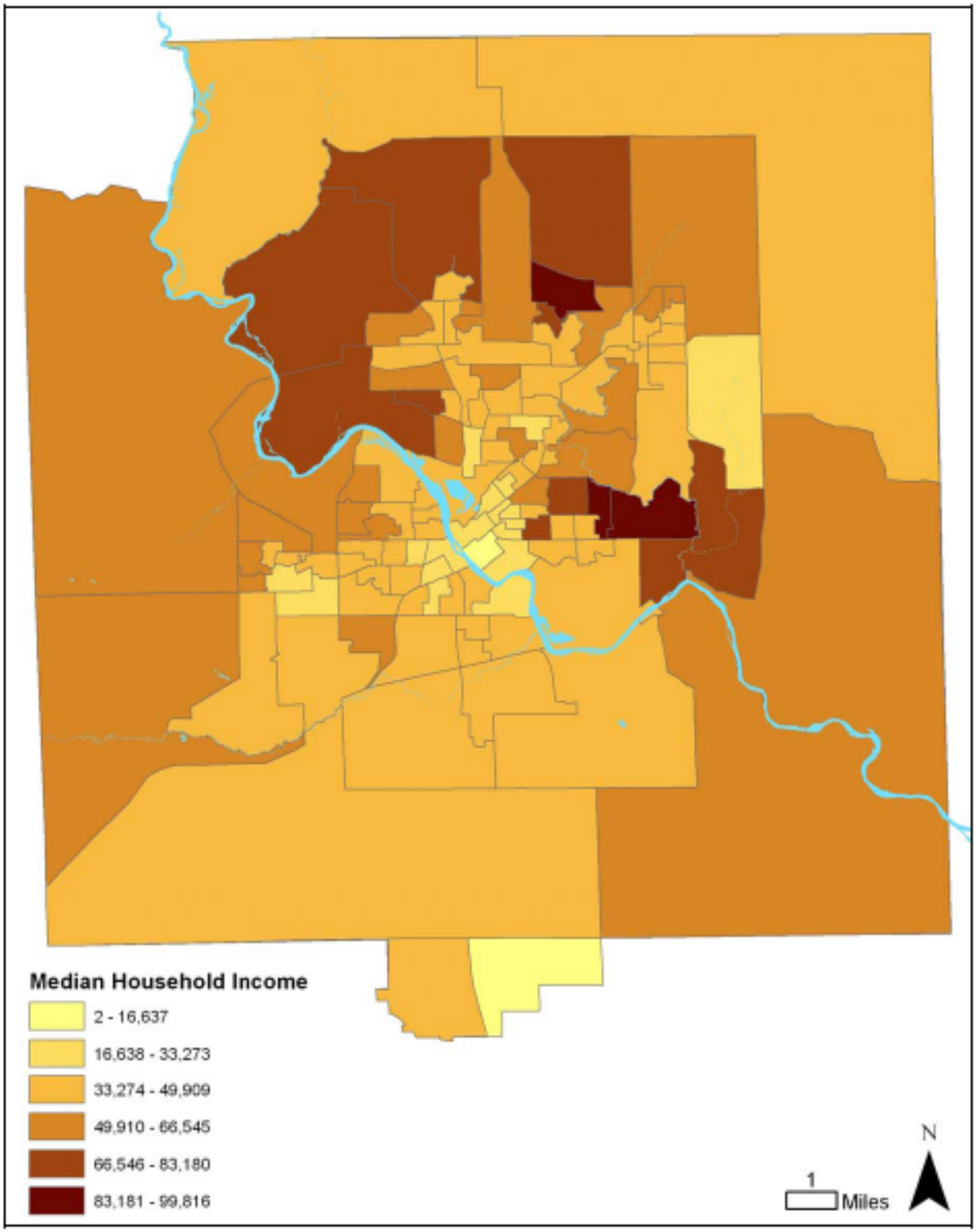


Figure 11c: Fixed - Service Bus Routes, Minority and Low Income Populations

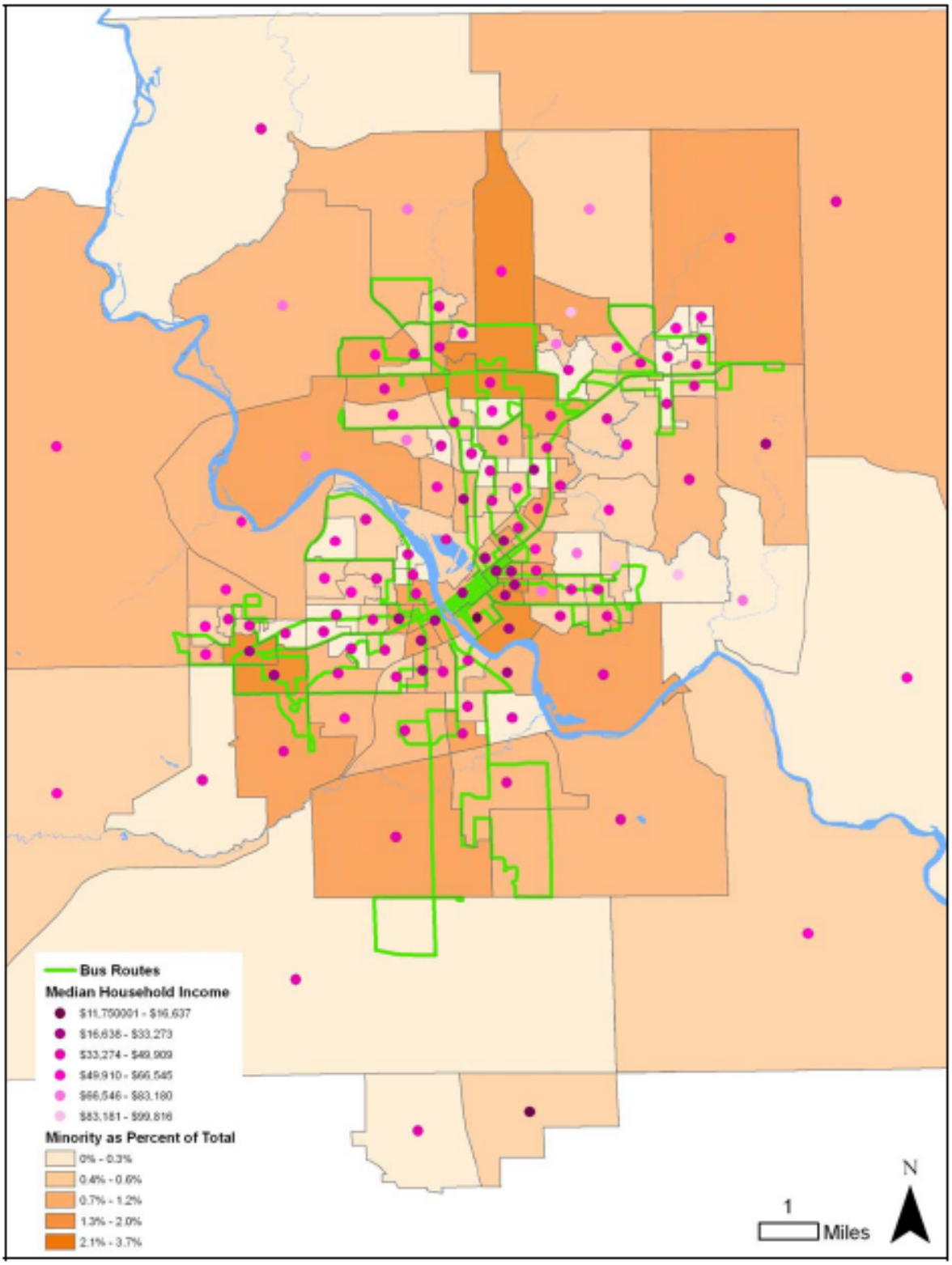
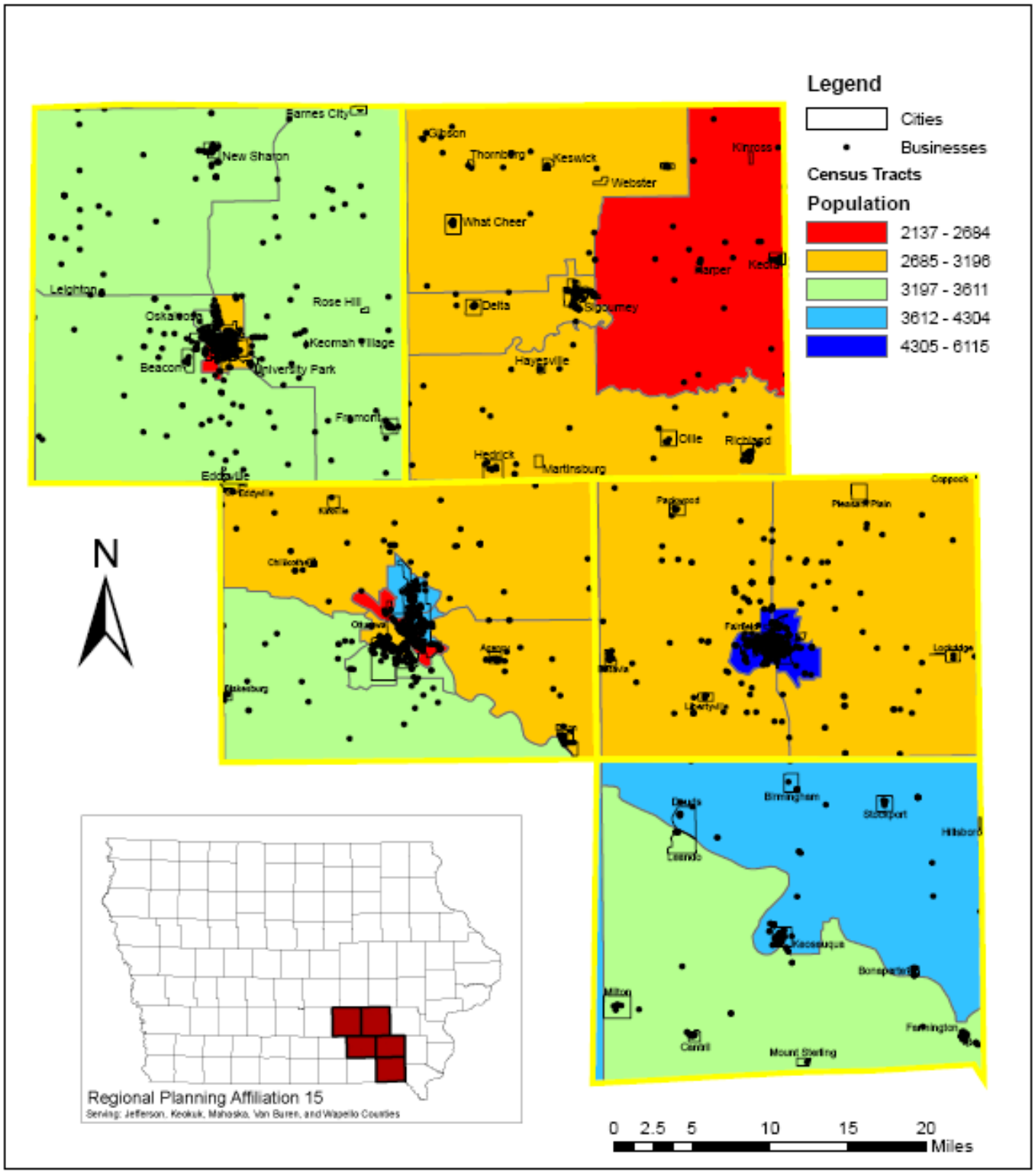


Figure 13-7: population by Census Tract and Business Location



Area 15 Regional Planning Commission: October 2007