

Using GIS as a tool in Transportation Planning



INRCOG
Iowa Northland
Regional Council
Of Governments

Codie Leseman, Transportation Planner II
Kyle Durant, Transportation Planner II
Iowa Northland Regional Council of Governments (INRCOG)
(319) 235-0311

Introduction

- Goal is to hopefully inspire new project ideas
- Interruptions are welcome
- All projects presented are something other than a final map product

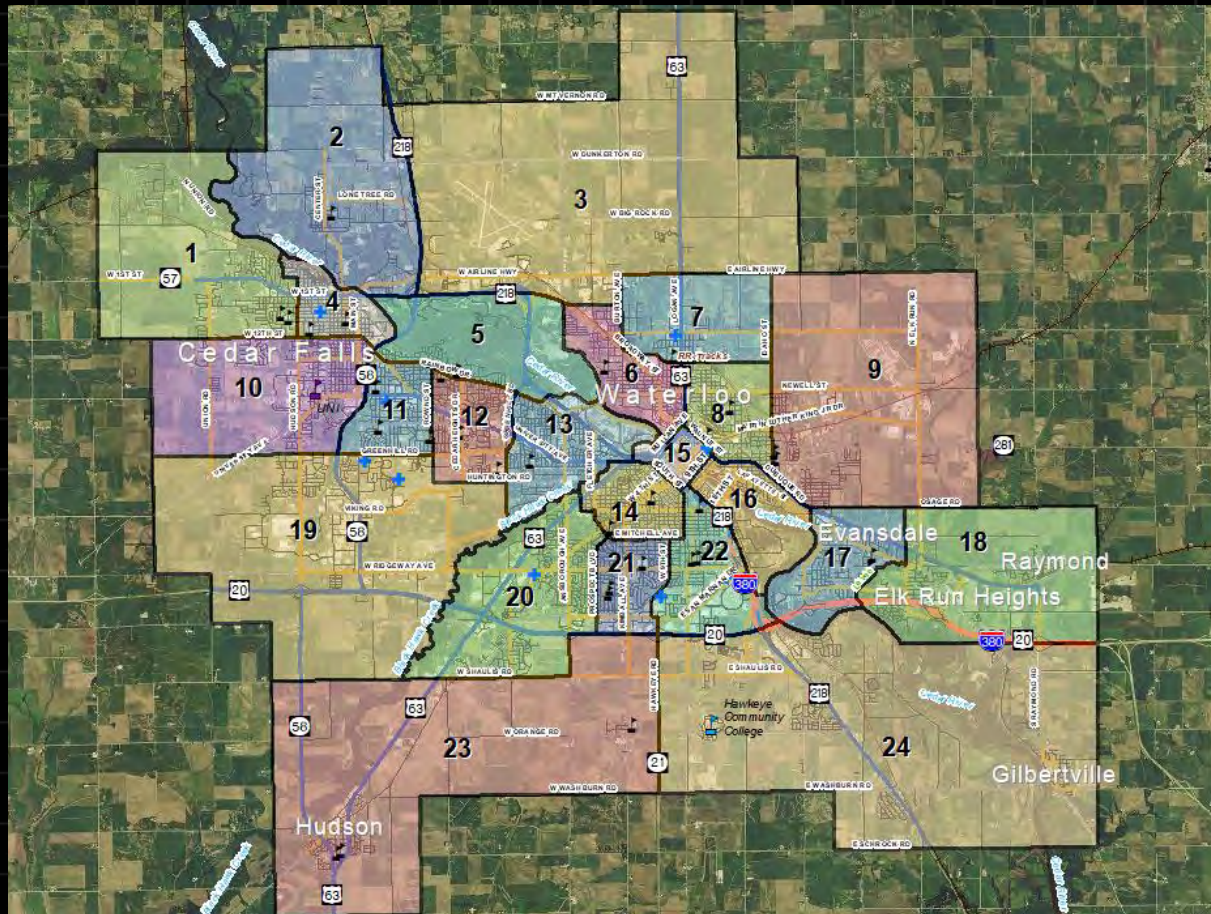


Using GIS as a tool in transportation planning

PEDESTRIAN MASTER PLAN

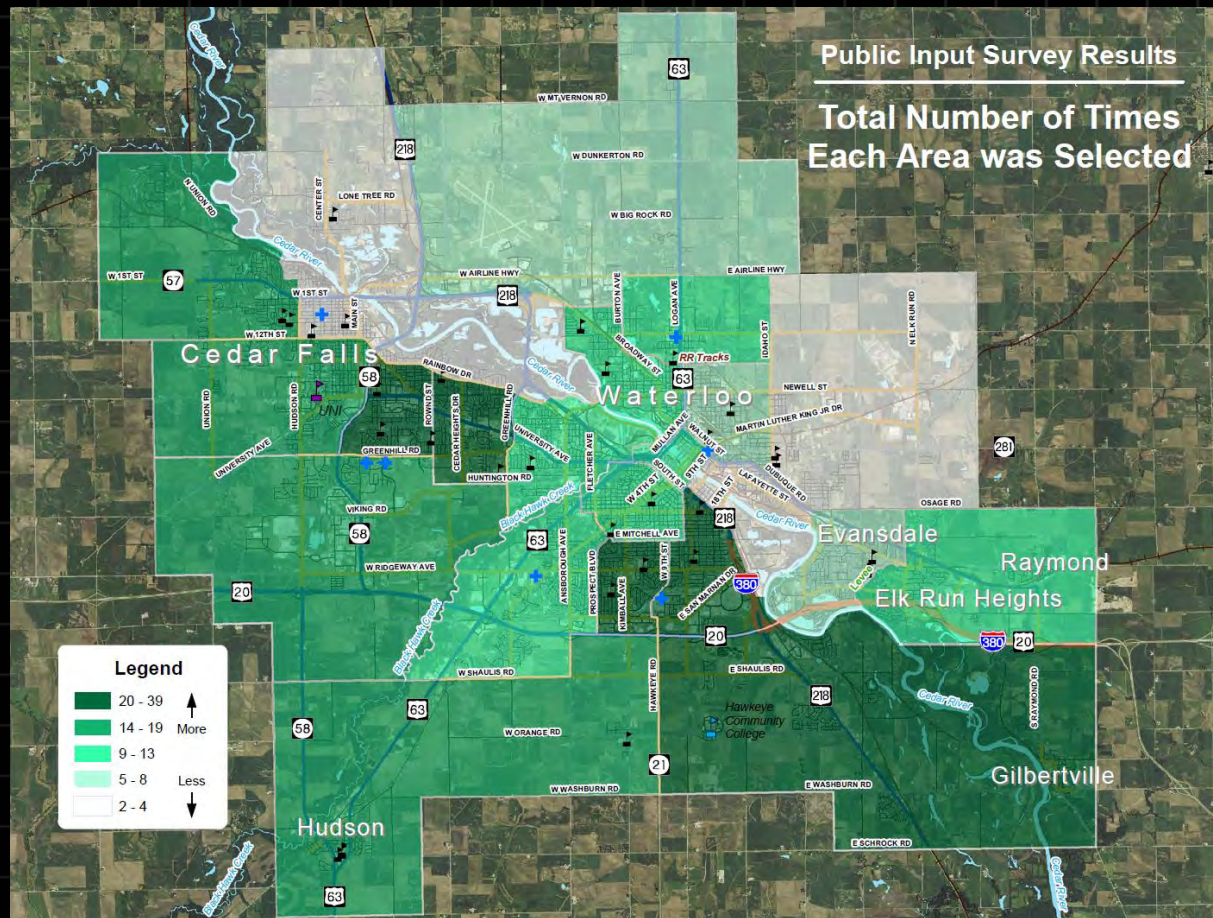
Pedestrian Master Plan

- Public input surveys



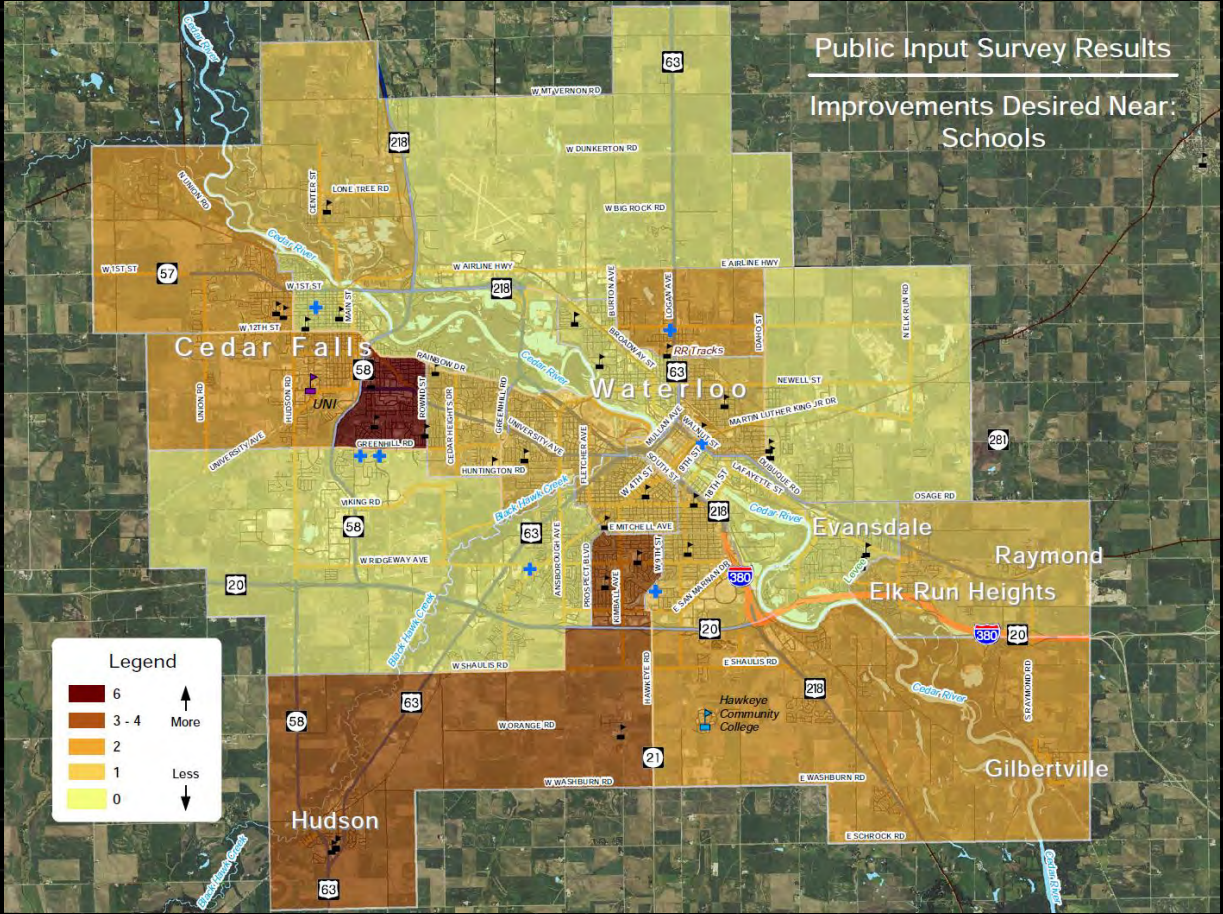
Pedestrian Master Plan

- Public input surveys



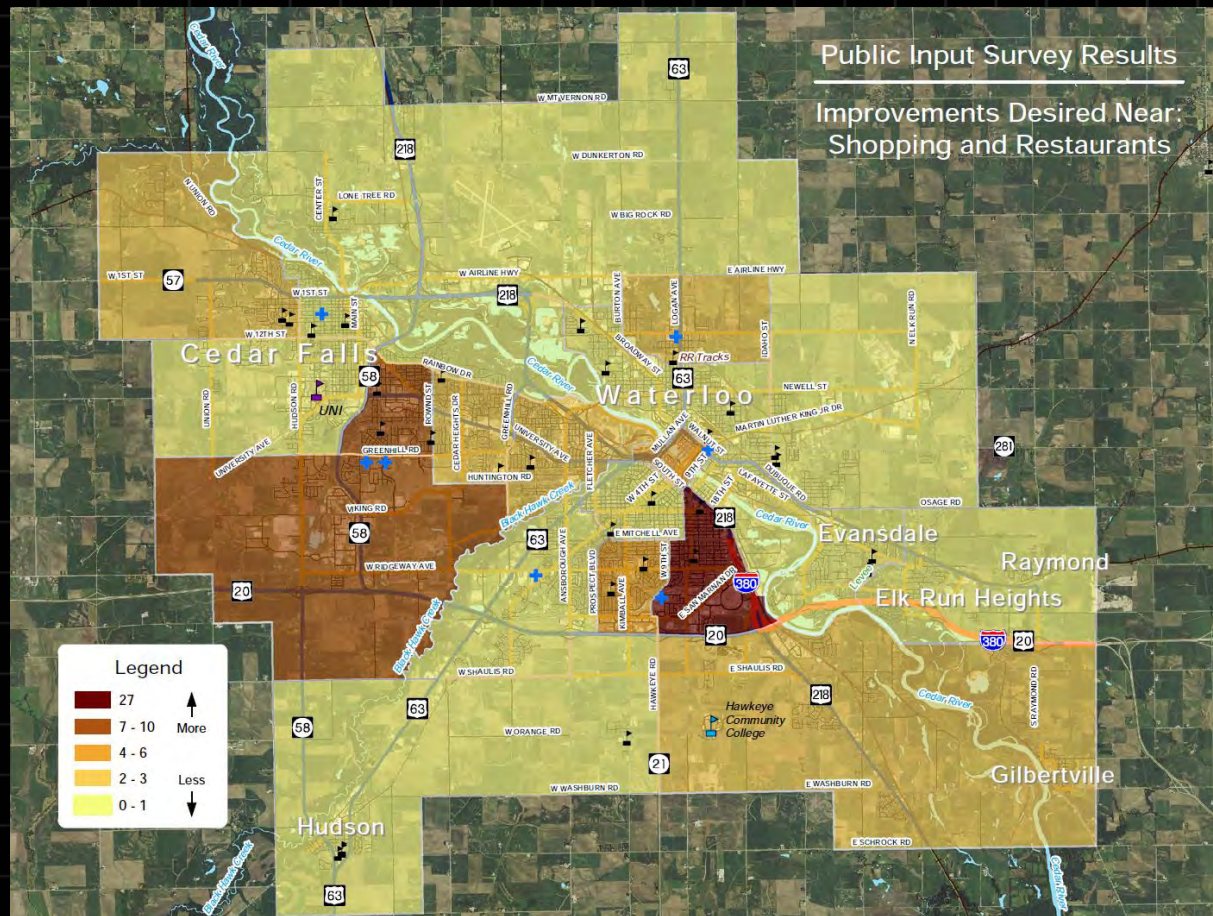
Pedestrian Master Plan

- Public input surveys



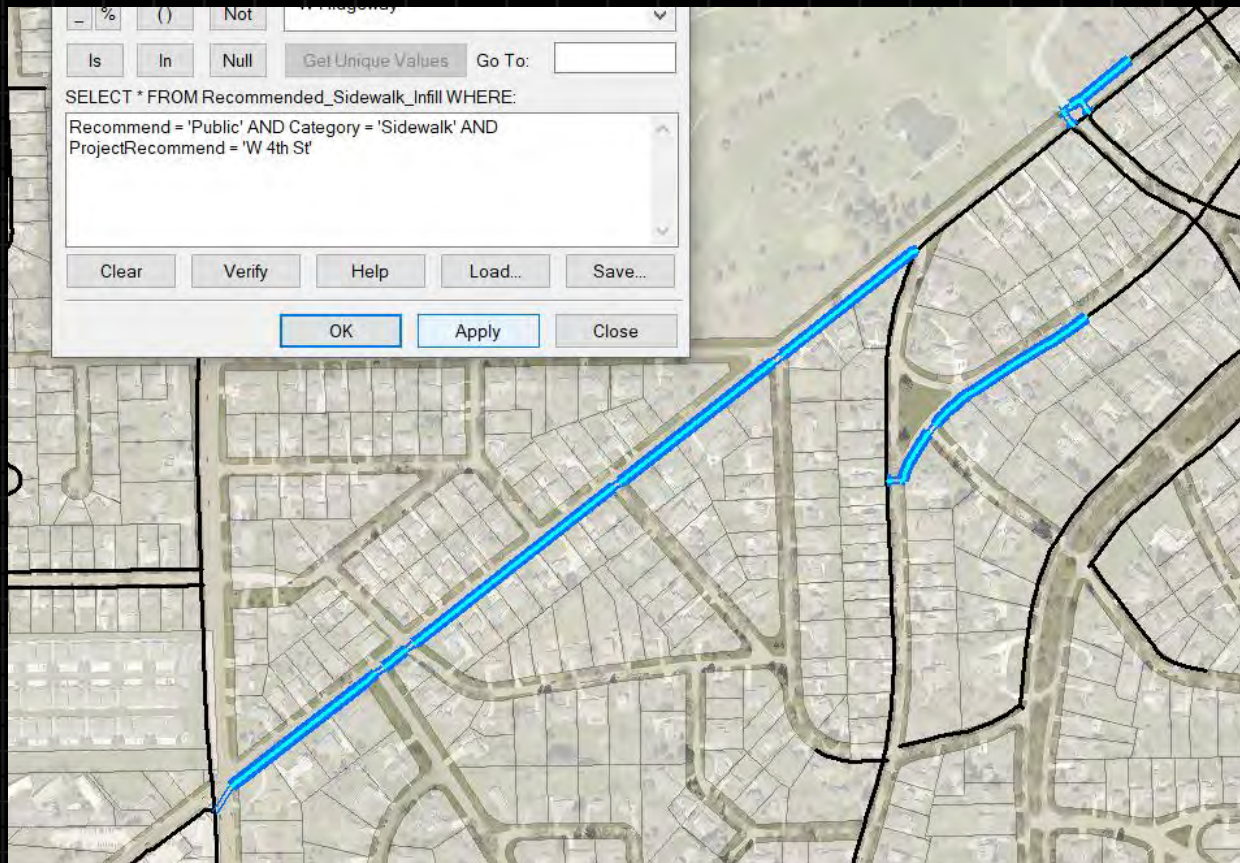
Pedestrian Master Plan

- Public input surveys



Pedestrian Master Plan

- Project identification



Pedestrian Master Plan

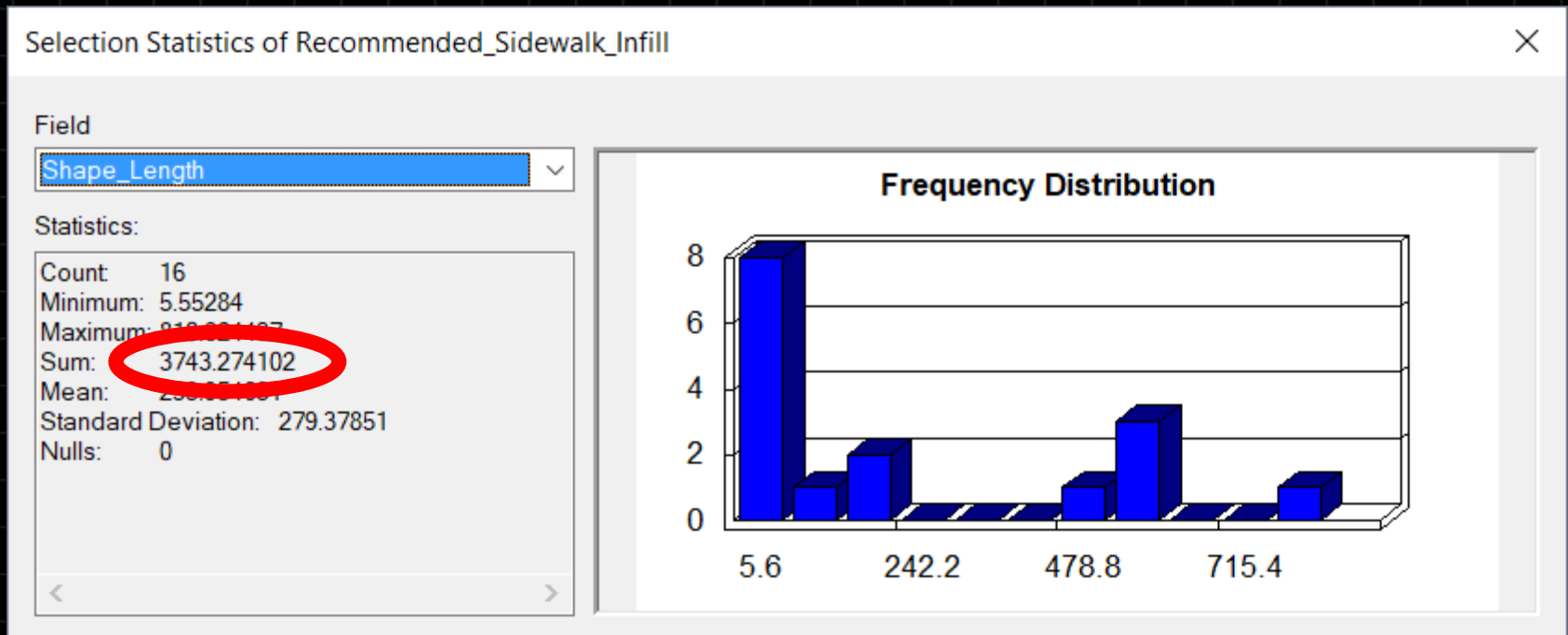
- Project identification

Zone	Recommend	Shape Length	Project	ProjectRecommend
8	Public	585	1 W 4th St	
8	Public	92	1 W 4th St	
8	Public	810	1 W 4th St	
8	Public	622	1 W 4th St	
8	Public	54	1 W 4th St	
8	Public	597	2 W 4th St	
8	Public	172	2 W 4th St	
0	Public	13	h St	
0	Public	8	h St	
8	Public	20	h St	
0	Public	1	h St	
0	Public	13	h St	
8	Public	33	h St	
8	Public		h St	
0	Public	9	h St	
0	Public	13	h St	

Statistics
Generates a report of statistics for the selected values in this numeric field. This command is disabled if this field is not numeric. If any of the records in the table are currently selected, statistics will only be generated for the selected records.

Pedestrian Master Plan

- Project identification



3,743 linear feet x \$60 per linear foot = \$224,580 estimated cost



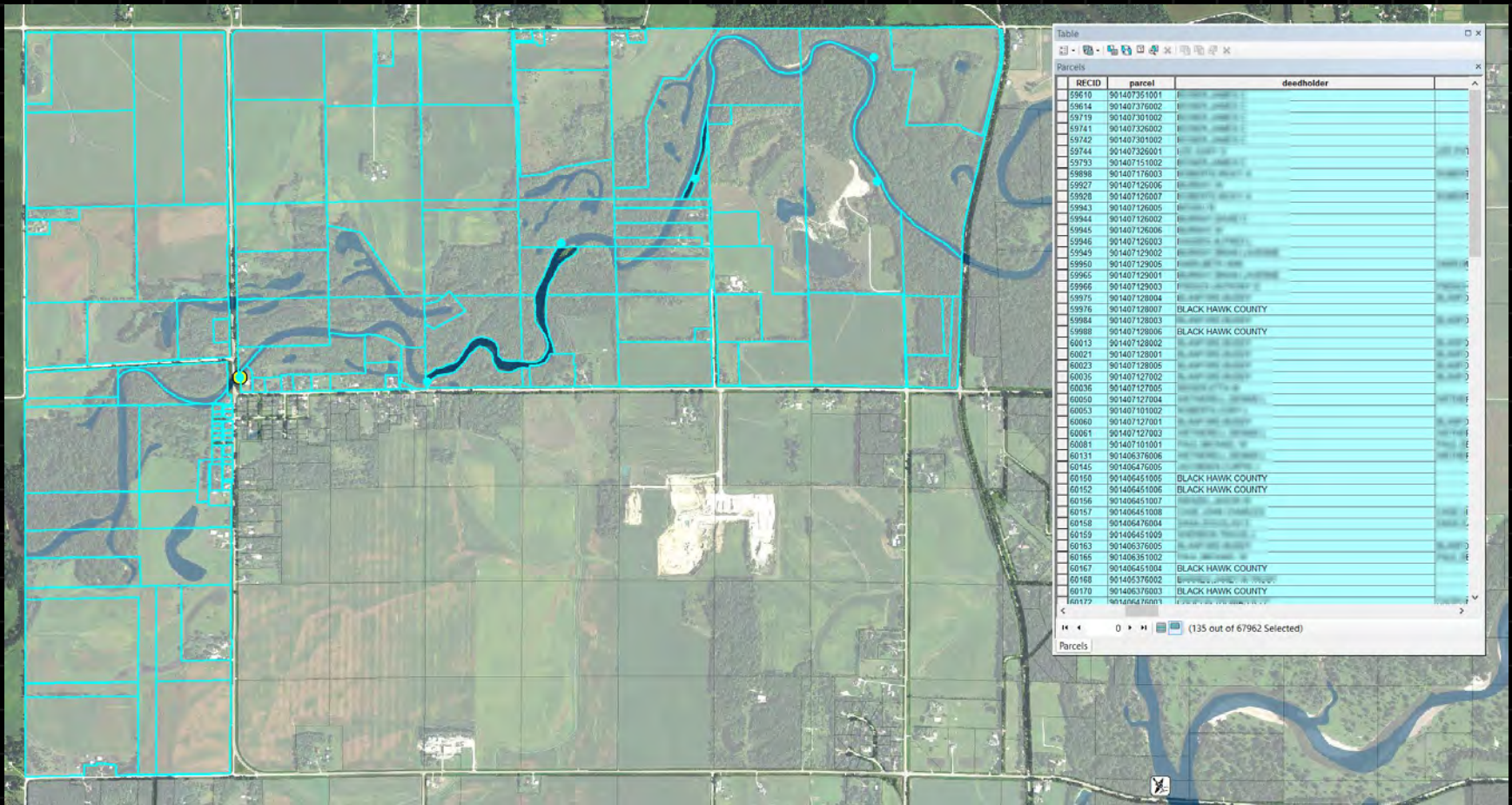
ACCESS
2

Using GIS as a tool in transportation planning

WATER TRAILS MASTER PLAN

Water Trails Master Plan

- Identifying land ownership



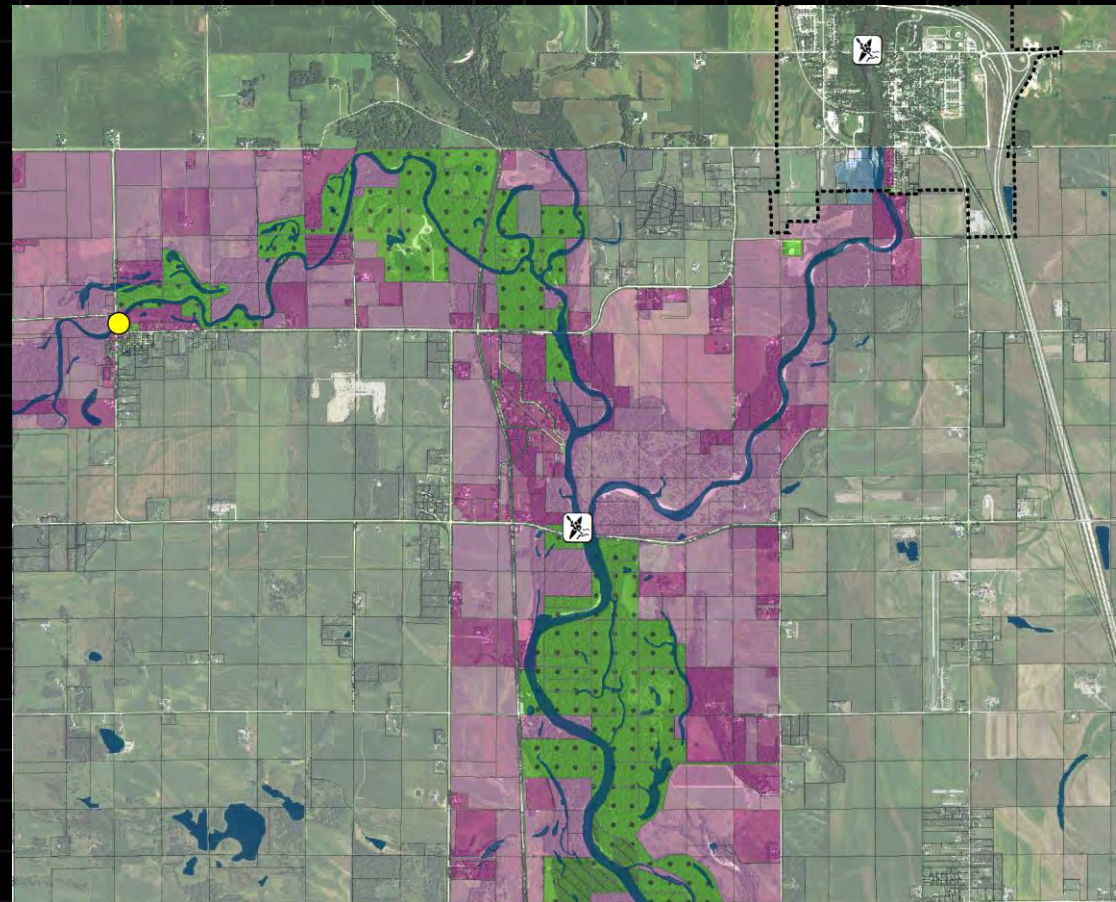
Water Trails Master Plan

- Identifying land ownership

Parcels			
RECID	parcel	deedholder	
60061	901407127003		
60081	901407101001		
60131	901406376006		
60145	901406476005		
60150	901406451005	BLACK HAWK COUNTY	
60152	901406451006	BLACK HAWK COUNTY	
60156	901406451007		
60157	901406451008		
60158	901406476004		
60159	901406451009		
60163	901406376005		
60165	901406351002		
60167	901406451004	BLACK HAWK COUNTY	
60168	901405376002		
60170	901406376003		
60172	901406476003		
60183	901405376003		
60187	901404376006		
60188	901406451002		
60192	901406476002	BLACK HAWK COUNTY CONSERVATION	
60193	901405351003	BLACK HAWK COUNTY CONSERVATION	
60197	901405451003		
60199	901405476003		
60224	901406476006	BLACK HAWK COUNTY CONSERVATION	
60226	901406451003		
60237	901405451002		

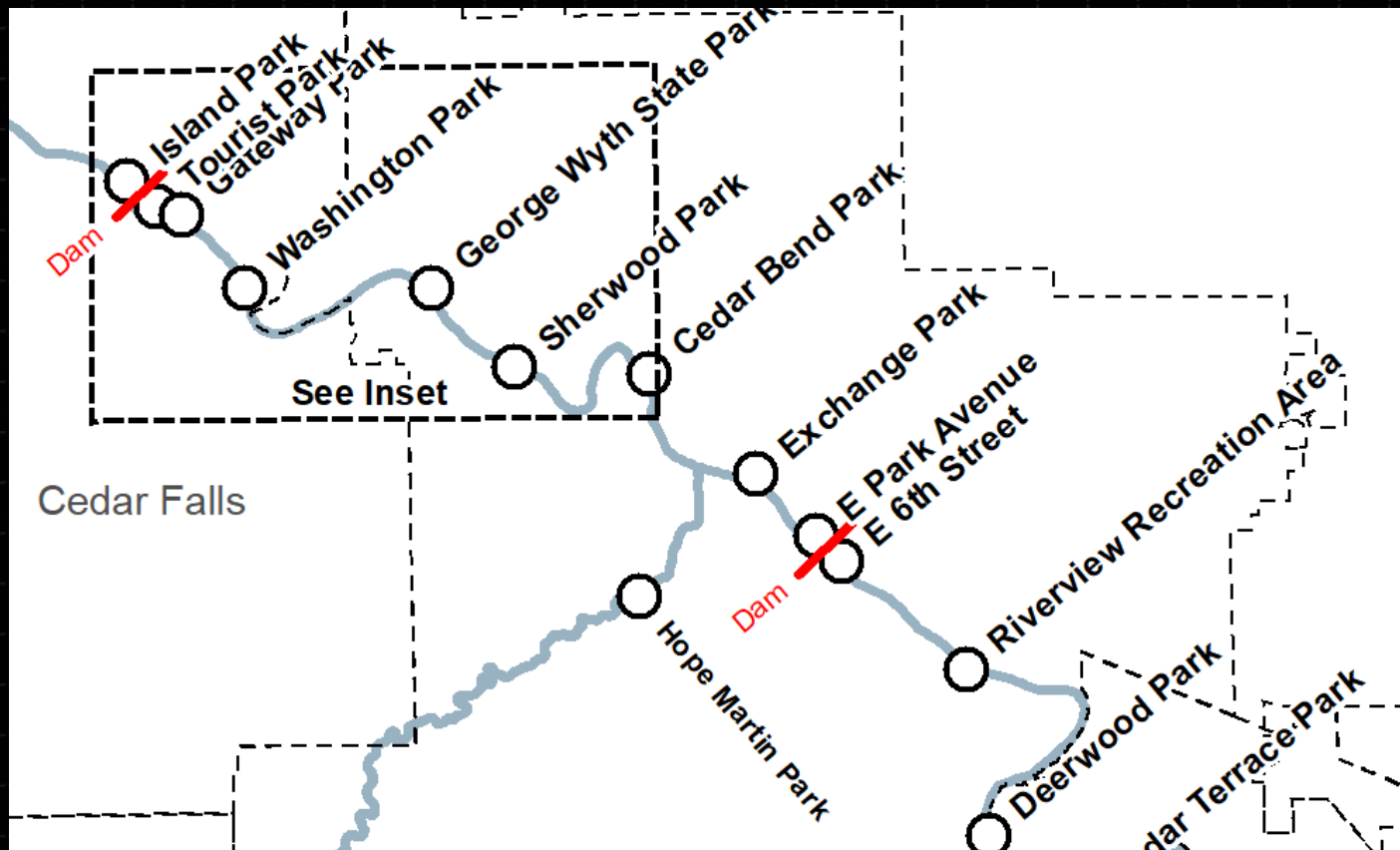
Water Trails Master Plan

- Identifying land ownership



Water Trails Master Plan

- Materials for public input



Black Hawk County Water Trail Master Plan Favorite Routes Activity

Select one activity below, then highlight up to three (3) of your favorite routes on the map. If you participate in multiple activities, please **complete a separate map for each activity.**

- | | |
|--|--|
| <input type="checkbox"/> Kayaking | <input type="checkbox"/> Power boating |
| <input type="checkbox"/> Tubing | <input type="checkbox"/> Jet Skiing |
| <input type="checkbox"/> Canoeing | <input type="checkbox"/> Pontoon Boating |
| <input type="checkbox"/> Rowing (sweep/sculling) | <input type="checkbox"/> Sailing |
| <input type="checkbox"/> Paddleboarding | <input type="checkbox"/> Other: _____ |

Are these fishing trips? Yes No Sometimes

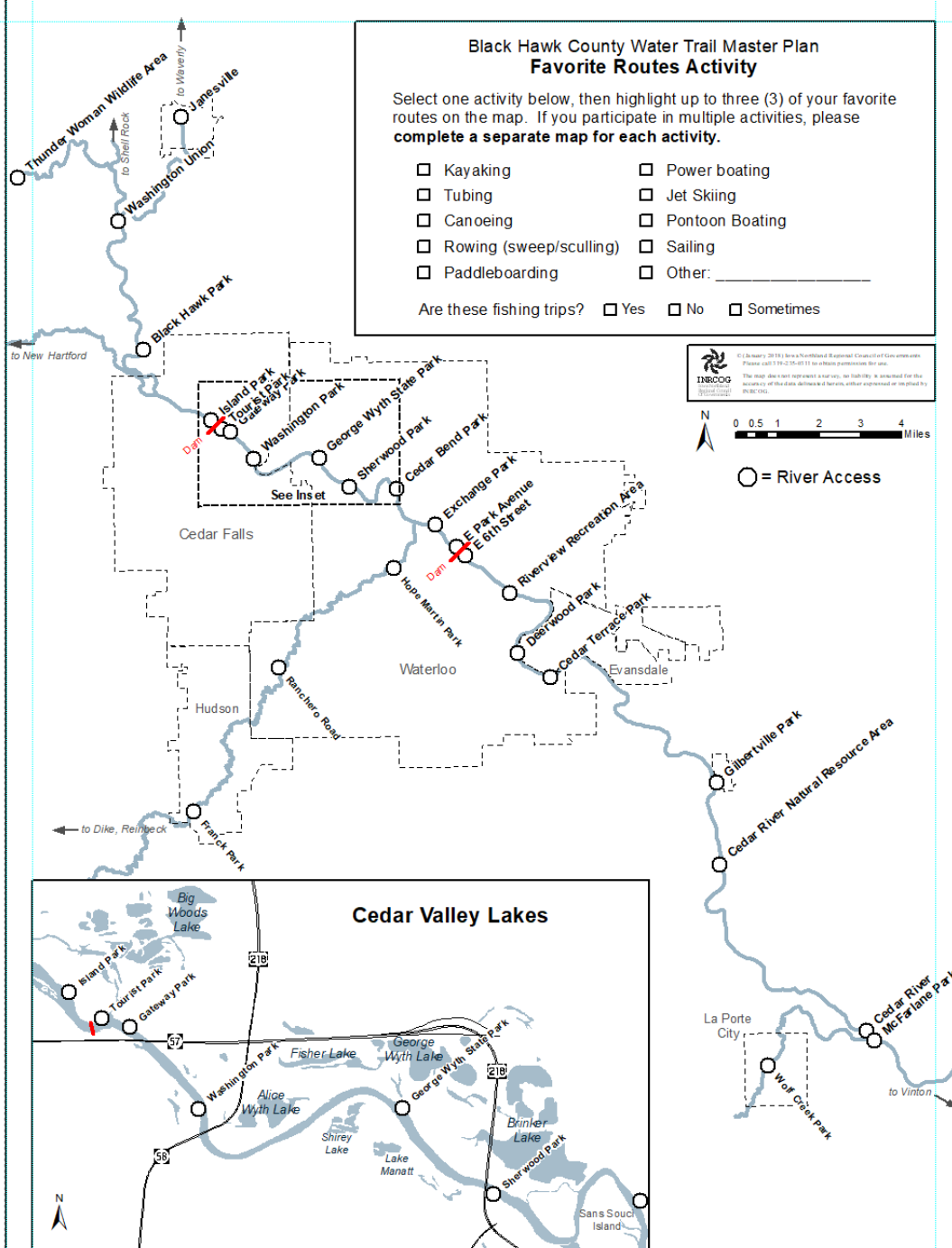


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This map does not represent a warranty, nor liability, is intended for the
accuracy of the data delivered herein, either expressed or implied by
INSBCOG.



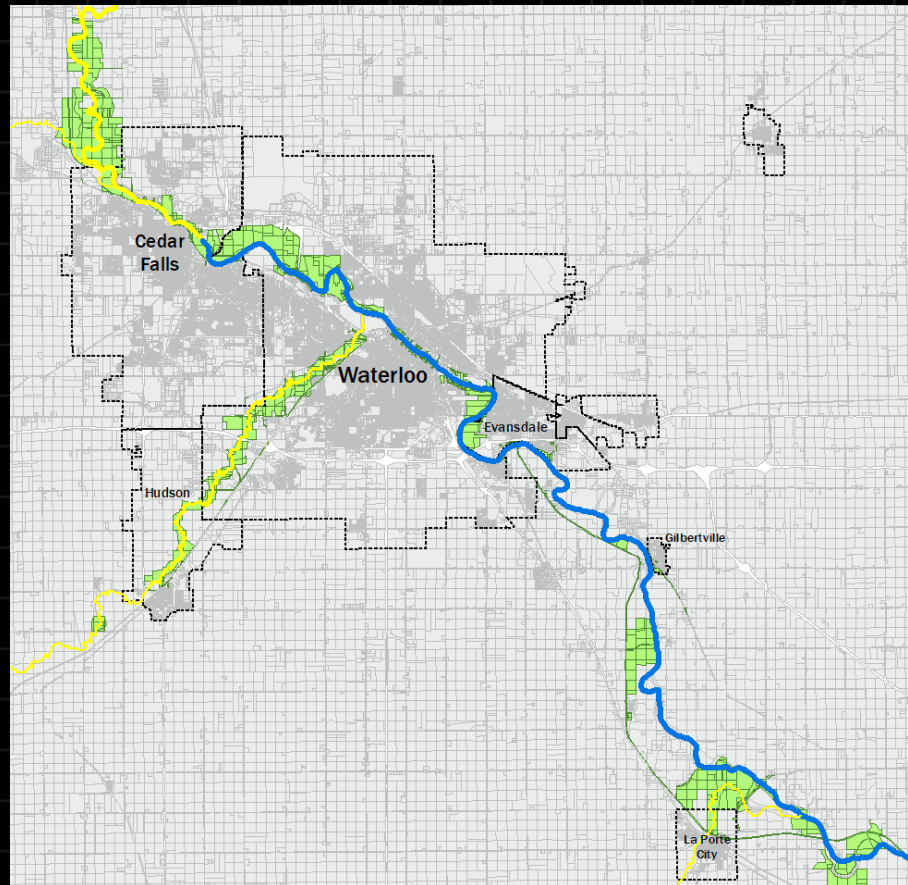
0 0.5 1 2 3 4 Miles

○ = River Access



Water Trails Master Plan

- Materials for public input



Water Trails Master Plan

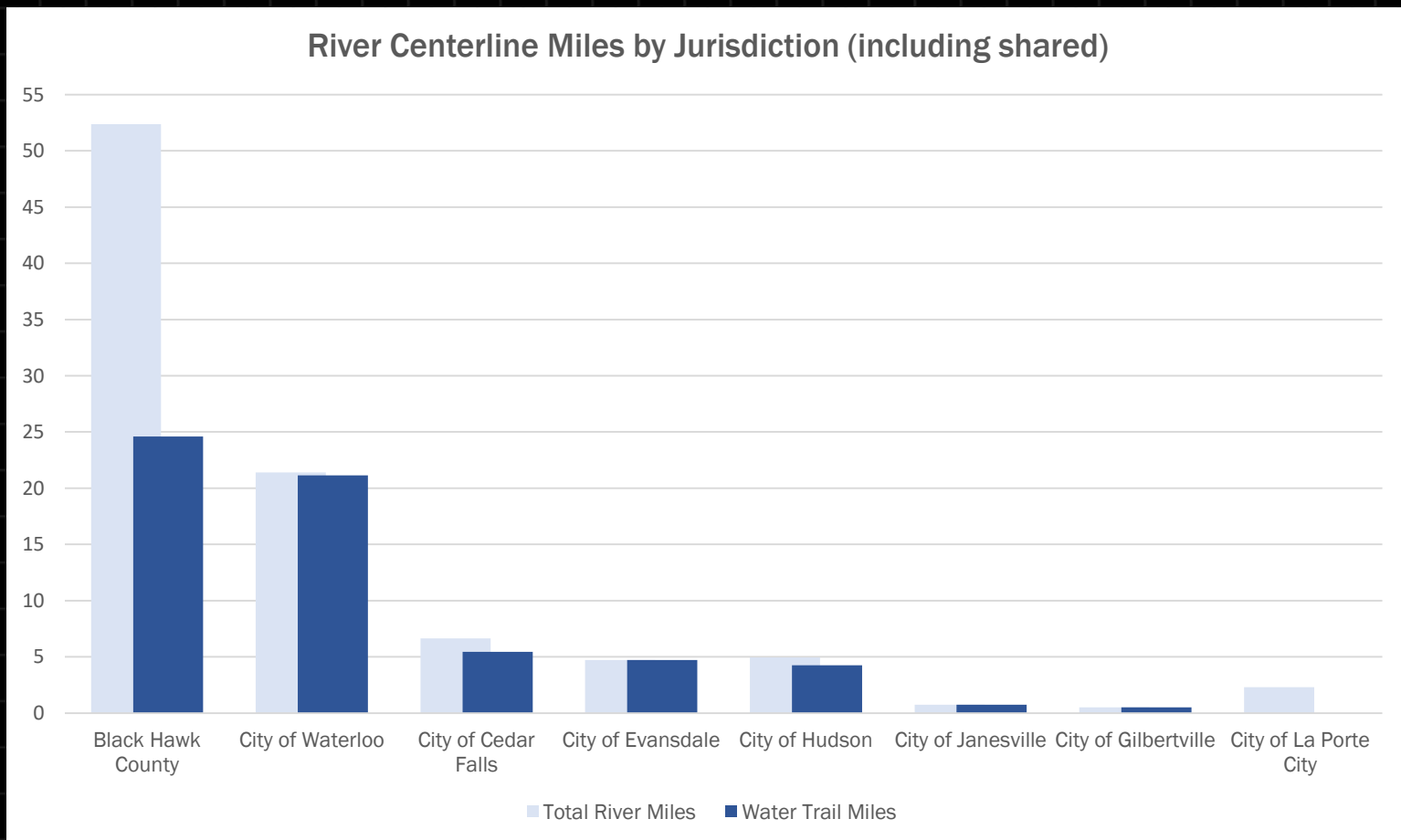
- Calculating centerline miles

```
SELECT * FROM River_Centerlines_sp83 WHERE:  
(Juris_Name = 'Waterloo' OR Juris_Name = 'Cedar Falls and Waterloo'  
OR Juris_Name = 'Evansdale and Waterloo') AND (WT_Name = 'Black  
Hawk Creek' OR WT_Name = 'Cedar River')
```

Jurisdiction	Miles (ex. shared)	Miles (incl. shared)	Entire county, all tributaries
Black Hawk Co.	22.00	24.59	52.38
City of Waterloo	17.20	21.14	21.41
City of Cedar Falls	4.14	5.45	6.63
City of Evansdale	0.00	4.71	4.71
City of Hudson	4.26	4.26	4.96
City of Janesville	0.74	0.74	0.74
City of Gilbertville	0.00	0.50	0.50
City of La Porte City	0.00	0.00	2.29

Water Trails Master Plan

- Calculating centerline miles



- ▶ This form should be completed by an adult household member.
- ▶ Please use a black or blue pen to complete this form.
- ▶ Mark to indicate your answer. If you want to change your answer, darken the box with the incorrect answer, and mark the correct answer with an .

Your Travel Experiences

1. How often do you use each of the following to get from place to place?

	Daily	A few times a week	A few times a month	A few times a year	Never
Walk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bike	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Personal Vehicle (Car/truck/SUV)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Taxi service or ride share such as Uber/Lyft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Train/Subway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paratransit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. How much do you agree or disagree with each of the following?

	Strongly agree	Agree	Neither agree or disagree	Disagree	Strongly disagree
The price of gas affects the number of places I go.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Getting from place to place costs too much.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I walk to places to save money.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I bike to places to save money.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I use public transportation to save money.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Technology You Use

3. How often do you use the following devices to access the Internet?

	Daily	A few times a week	A few times a month	A few times a year	Never
Desktop or laptop computer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Smartphone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tablet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other device, please specify	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Your Household and You

4. How many vehicles are owned, leased, or available for regular use by the people who currently live in your household? Be sure to include motorcycles, mopeds, and RVs.

Please fill in "0" if your household has no motor vehicles

Total number of motor vehicles available to your household

5. Do you own or rent your home?

- Own
- Rent
- Other, please specify

6. Are you of Hispanic or Latino origin?

- Yes, Hispanic or Latino
- No, not Hispanic or Latino

7. What is your race? Mark all that apply.

- White
- Black or African American
- Asian
- American Indian or Alaska Native
- Native Hawaiian or other Pacific Islander
- Other, please specify

8. What is the highest grade or year of school you completed?

- Less than a high school graduate
- High school graduate or GED
- Some college or Associates degree
- Bachelor's degree
- Graduate degree or professional degree

Contact Information

9. Please print your first and last name below.

Last Name:

10. Please provide your email address.

11. What is the best telephone number for us to reach you for the next part of the study?

13. Do you have a landline telephone?

- Yes
- No

12. Is the number above a cell phone?

- Yes
- No

14. The second part of this survey can be done online or on the phone. Which do you prefer?

- Online
- Phone

Please continue to the back page. →

Using GIS as a tool in transportation planning

NATIONAL HOUSEHOLD TRAVEL SURVEY ADD-ON



National Household Travel Survey

- INRCOG is one of 13 “add-ons”
- 1,221 surveys completed in INRCOG region



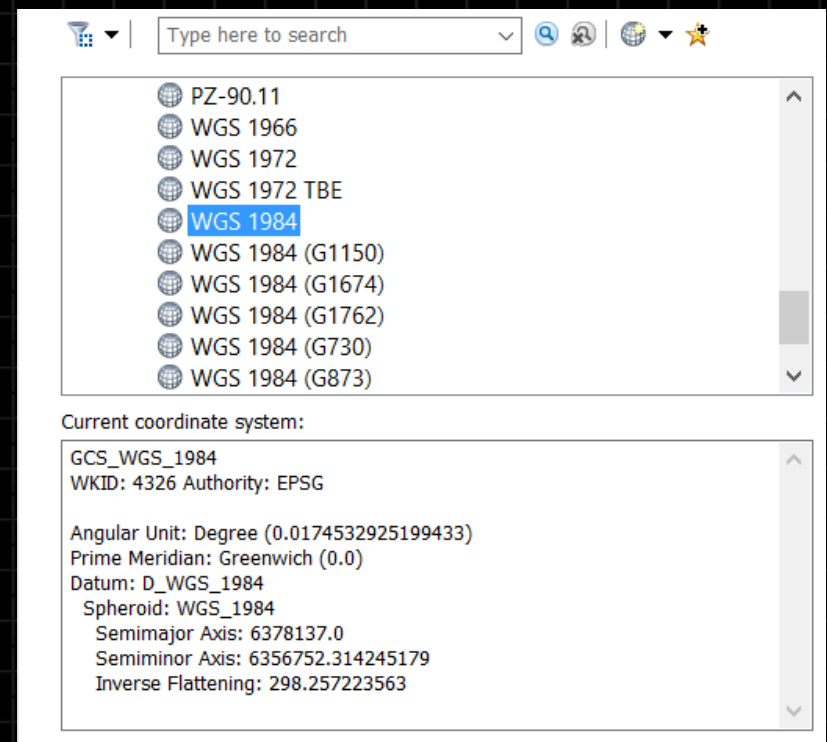
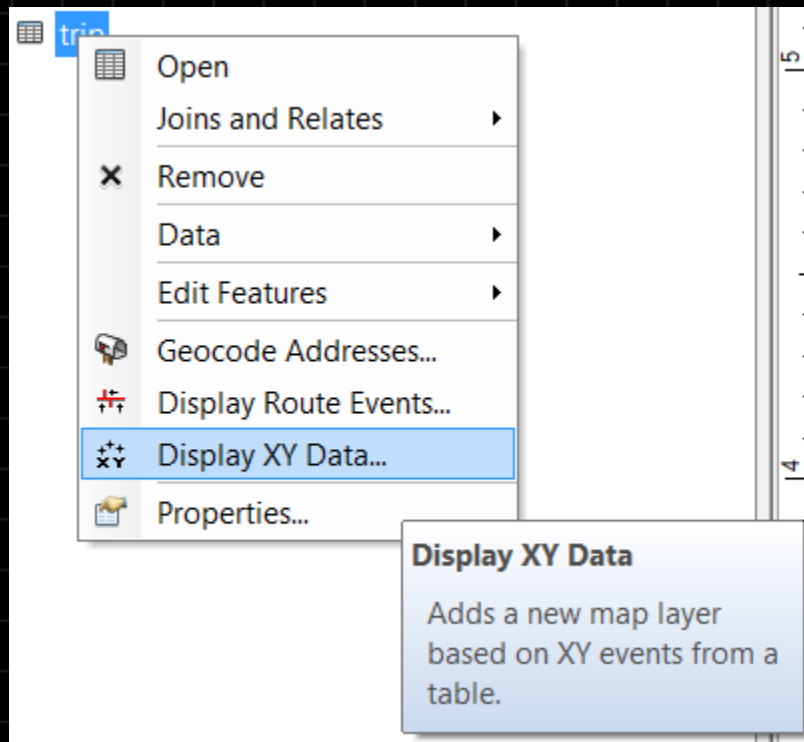
National Household Travel Survey

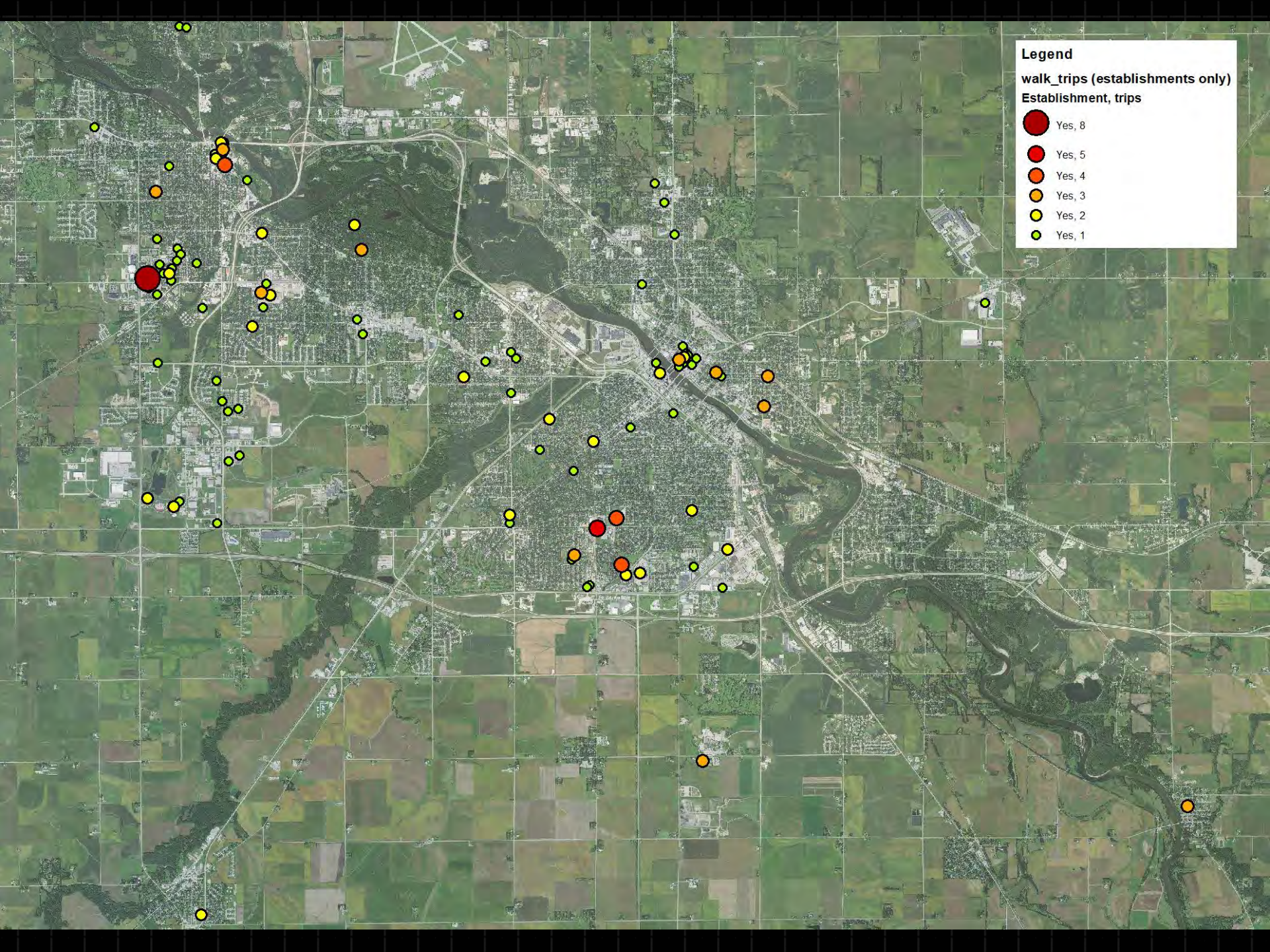
- 8,722 trips recorded
 - 541 were walking trips
 - Used ArcMap to join “trips” and “location” files
 - Cleaned up data in Excel and combined trips:

goforwalk	other	trips	home	Shape *	Establishment
<Null>	<Null>	1	<Null>	Point	Yes
<Null>	Yes	1	<Null>	Point	No
<Null>	Yes	2	<Null>	Point	No
<Null>	<Null>	1	<Null>	Point	Yes
<Null>	<Null>	1	<Null>	Point	Yes
<Null>	<Null>	3	<Null>	Point	Yes
<Null>	<Null>	4	<Null>	Point	Yes
<Null>	<Null>	1	<Null>	Point	Yes
<Null>	<Null>	2	<Null>	Point	Yes
<Null>	<Null>	1	<Null>	Point	Yes
<Null>	<Null>	1	<Null>	Point	Yes
<Null>	<Null>	2	<Null>	Point	Yes
Yes	<Null>	1	<Null>	Point	No
<Null>	<Null>	3	<Null>	Point	Yes

National Household Travel Survey

- Projecting the data using lat/long





Legend
walk_trips (establishments only)
Establishment, trips

Red circle (largest)	Yes, 8
Red circle (medium)	Yes, 5
Orange circle (medium)	Yes, 4
Yellow-orange circle (small)	Yes, 3
Yellow circle (small)	Yes, 2
Light yellow circle (smallest)	Yes, 1



Using GIS as a tool in transportation planning

MET TRANSIT, REMIX

MET Transit, Remix

- Make Google work for you

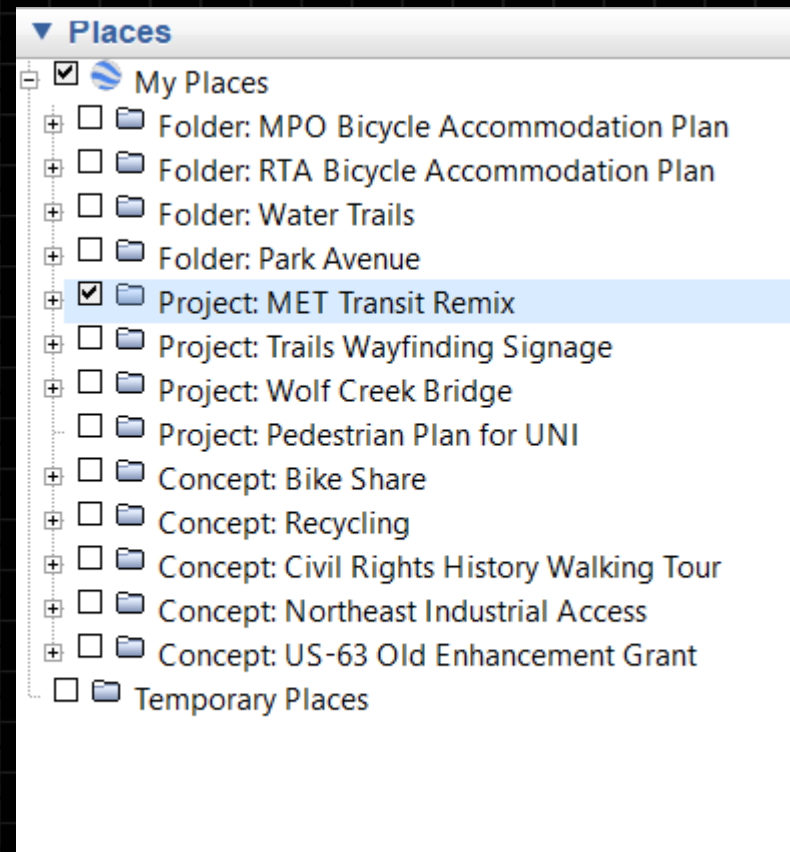
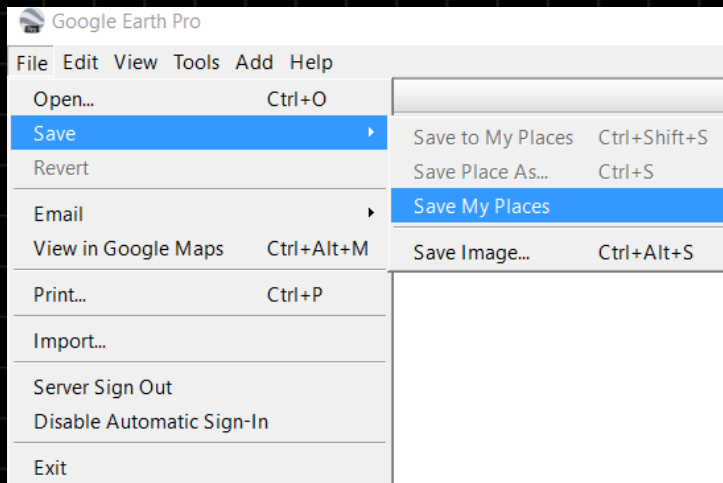
A **Tyson Fresh Meats**
501 N Elk Run Rd, Waterloo, IA 50703
(319) 236-2636 · tyson.com

Show balloon
Fly here
Save to My Places
Copy as KML



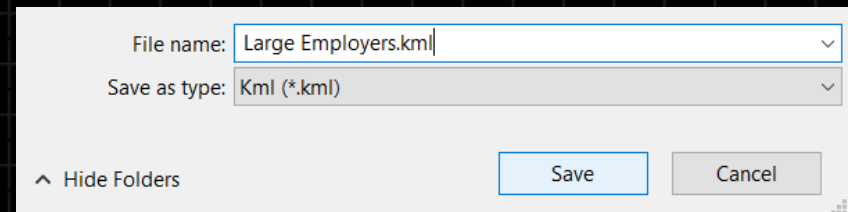
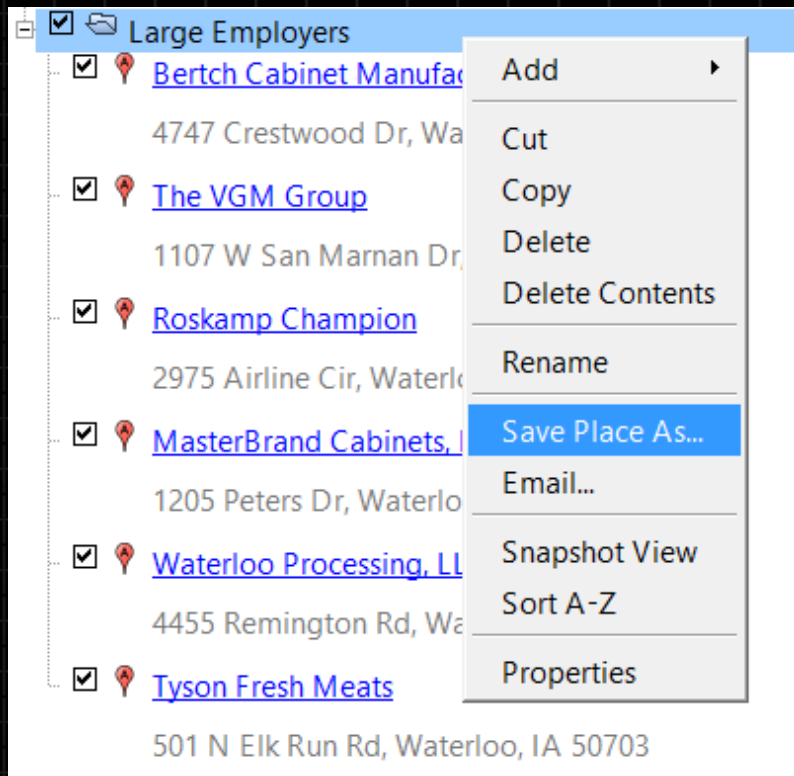
MET Transit, Remix

- Make Google work for you



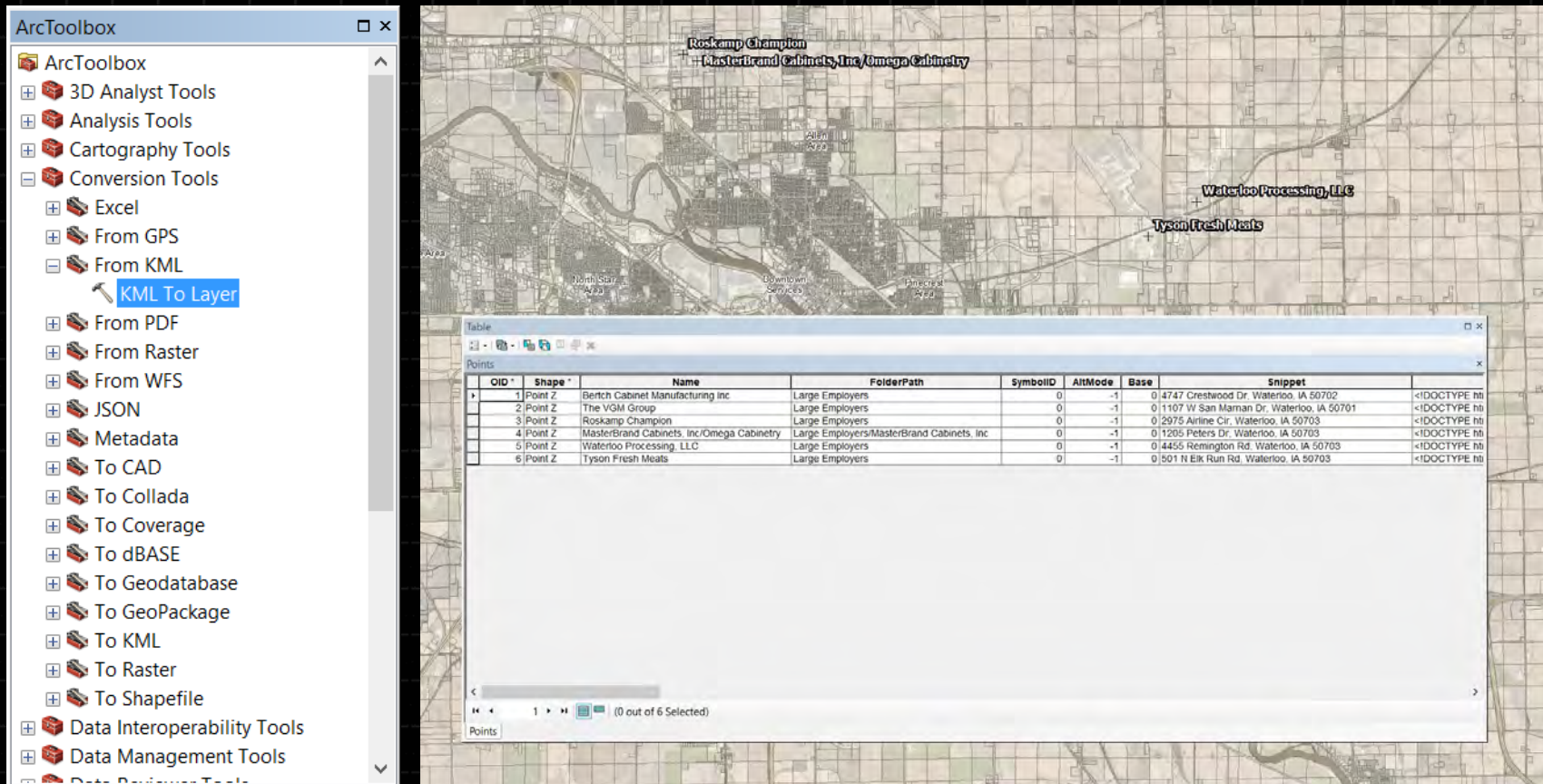
MET Transit, Remix

- Make Google work for you



MET Transit, Remix

- Make Google work for you

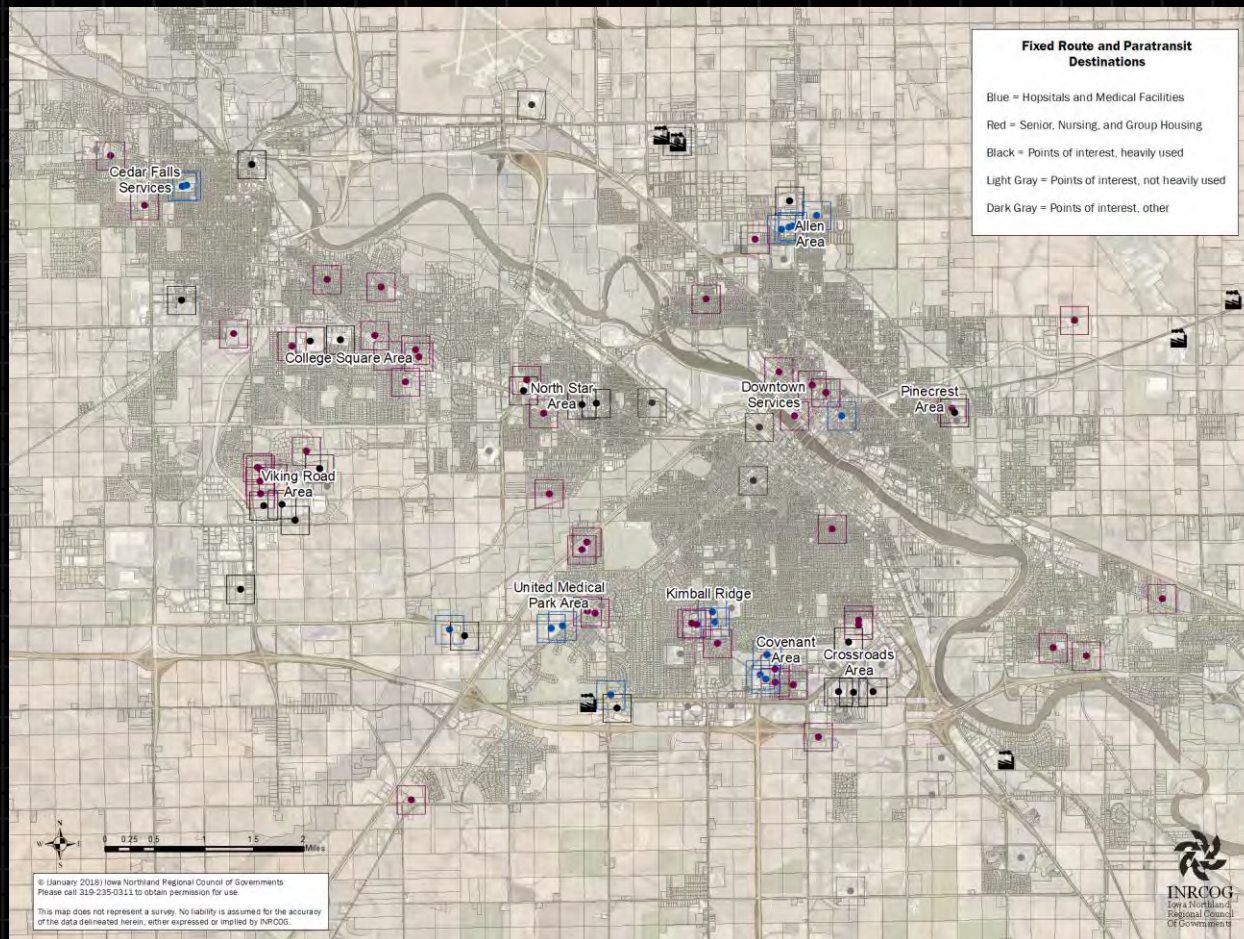


The image shows a screenshot of the ArcToolbox interface on the left and a map on the right. The ArcToolbox window lists various tools, with 'KML To Layer' highlighted. The map displays several business locations in Waterloo, IA, with labels for Roskamp Champion, MasterBrand Cabinets, Inc./Omega Cabinetry, Waterloo Processing, LLC, and Tyson Fresh Meats. A table window is open over the map, showing a list of points with their attributes.

OID*	Shape*	Name	FolderPath	SymbolID	AltMode	Base	Snippet
1	Point Z	Bertch Cabinet Manufacturing inc	Large Employers	0	-1	0	4747 Crestwood Dr. Waterloo, IA 50702
2	Point Z	The VGM Group	Large Employers	0	-1	0	1107 W San Maran Dr. Waterloo, IA 50701
3	Point Z	Roskamp Champion	Large Employers	0	-1	0	2975 Airline Cir. Waterloo, IA 50703
4	Point Z	MasterBrand Cabinets, Inc./Omega Cabinetry	Large Employers/MasterBrand Cabinets, Inc	0	-1	0	1205 Peters Dr. Waterloo, IA 50703
5	Point Z	Waterloo Processing, LLC	Large Employers	0	-1	0	4455 Remington Rd. Waterloo, IA 50703
6	Point Z	Tyson Fresh Meats	Large Employers	0	-1	0	501 N Elk Run Rd. Waterloo, IA 50703

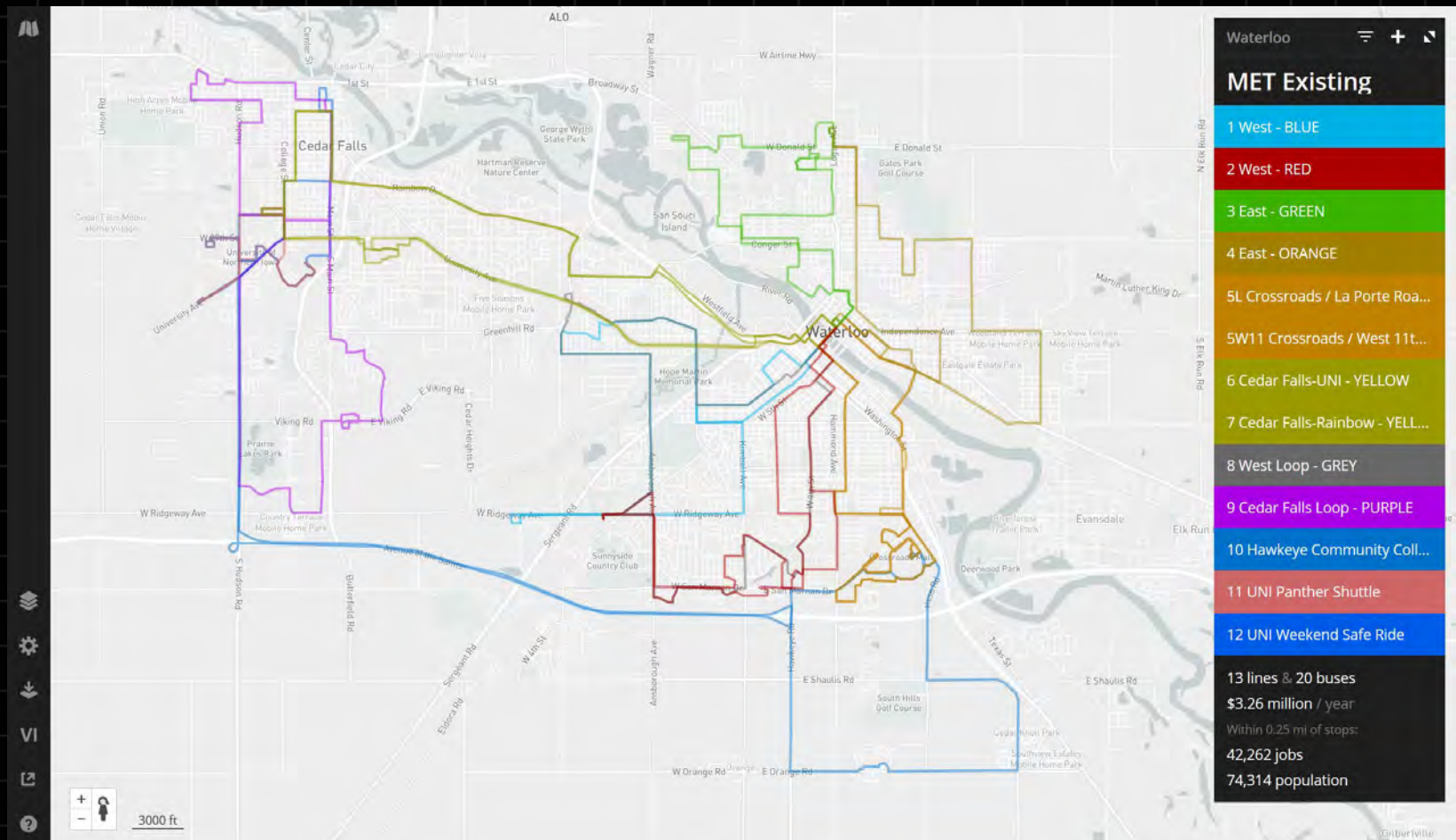
MET Transit, Remix

- Make Google work for you



MET Transit, Remix

- Remix software



MET Transit, Remix

- Remix software

Weekday							
FROM	TO	EVERY	RUNTIME	LAYOVER	SPEED	BUSES	UTILIZATION
05:30	07:00	90 min	77.2 min	7.8 min	15.0 mph	1 bus	95.3%
07:00	09:15	30 min	77.2 min	7.8 min	15.0 mph	3 buses	69.5%
09:15	16:00	90 min	77.2 min	7.8 min	15.0 mph	1 bus	96.2%
16:00	19:00	45 min	77.2 min	7.8 min	15.0 mph	2 buses	77.7%
19:00	22:00	90 min	77.2 min	7.8 min	15.0 mph	1 bus	96.8%
Saturday							
FROM	TO	EVERY	RUNTIME	LAYOVER	SPEED	BUSES	UTILIZATION
06:00	20:00	40 min	77.2 min	7.8 min	15.0 mph	3 buses	66.7%
Sunday							
FROM	TO	EVERY	RUNTIME	LAYOVER	SPEED	BUSES	UTILIZATION
06:00	18:00	75 min	77.2 min	7.8 min	15.0 mph	2 buses	54.0%

MET Transit, Remix

- Remix software

17.65 miles & 2 buses

\$282.2k / year

Within 0.25 mi of stops:

14,772 jobs

20,652 population

20.3% in poverty

1.4% limited English

12.0% minority

12.7% senior (65 +)

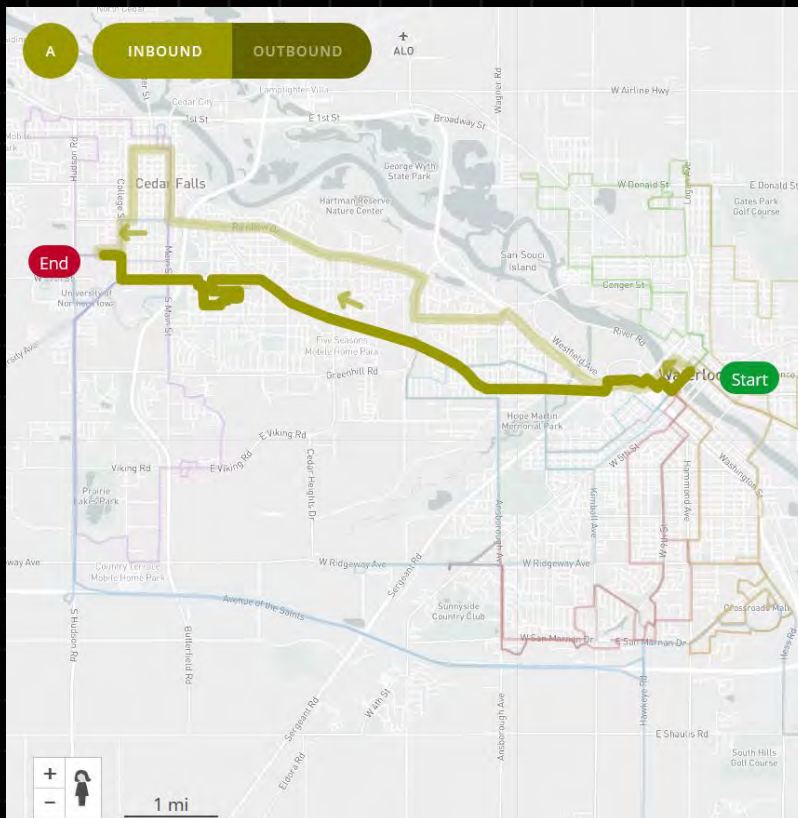
10.3% with disabilities

9.0% with no vehicles

16.2% youth (18 -)

MET Transit, Remix

- Remix software



6 Cedar Falls-UNI - YELLOW Weekday

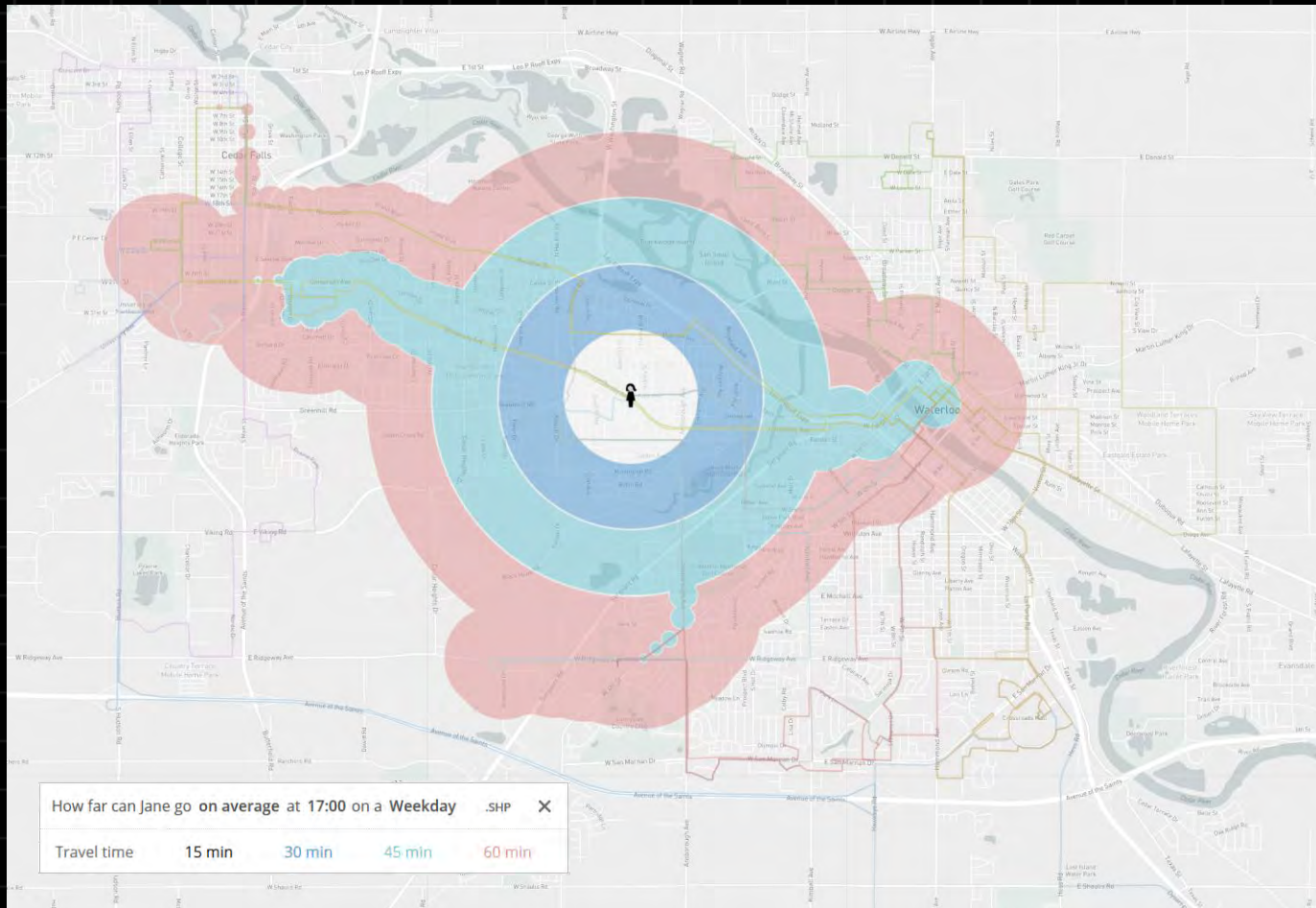
Central Transfer Fletcher Ave And University... Cedarloo Shopping... Multimodal Transportation... Multimodal Transportation... Franklin St And W 6th St Ansborough And May...

06:15 - 17:15 - Every 60 min - 24 trips

	0	+6.0	+7.0	+13.0		0	+6.0	+16.0
A	06:15	06:21	06:28	06:41	A	07:13	07:19	07:35
A	07:15	07:21	07:28	07:41	A	08:13	08:19	08:35
A	08:15	08:21	08:28	08:41	A	09:13	09:19	09:35
A	09:15	09:21	09:28	09:41	A	10:13	10:19	10:35
A	10:15	10:21	10:28	10:41	A	11:13	11:19	11:35
A	11:15	11:21	11:28	11:41	A	12:13	12:19	12:35
A	12:15	12:21	12:28	12:41	A	13:13	13:19	13:35
A	13:15	13:21	13:28	13:41	A	14:13	14:19	14:35
A	14:15	14:21	14:28	14:41	A	15:13	15:19	15:35
A	15:15	15:21	15:28	15:41	A	16:13	16:19	16:35
A	16:15	16:21	16:28	16:41	A	17:13	17:19	17:35
A	17:15	17:21	17:28	17:41	A	18:13	18:19	18:35

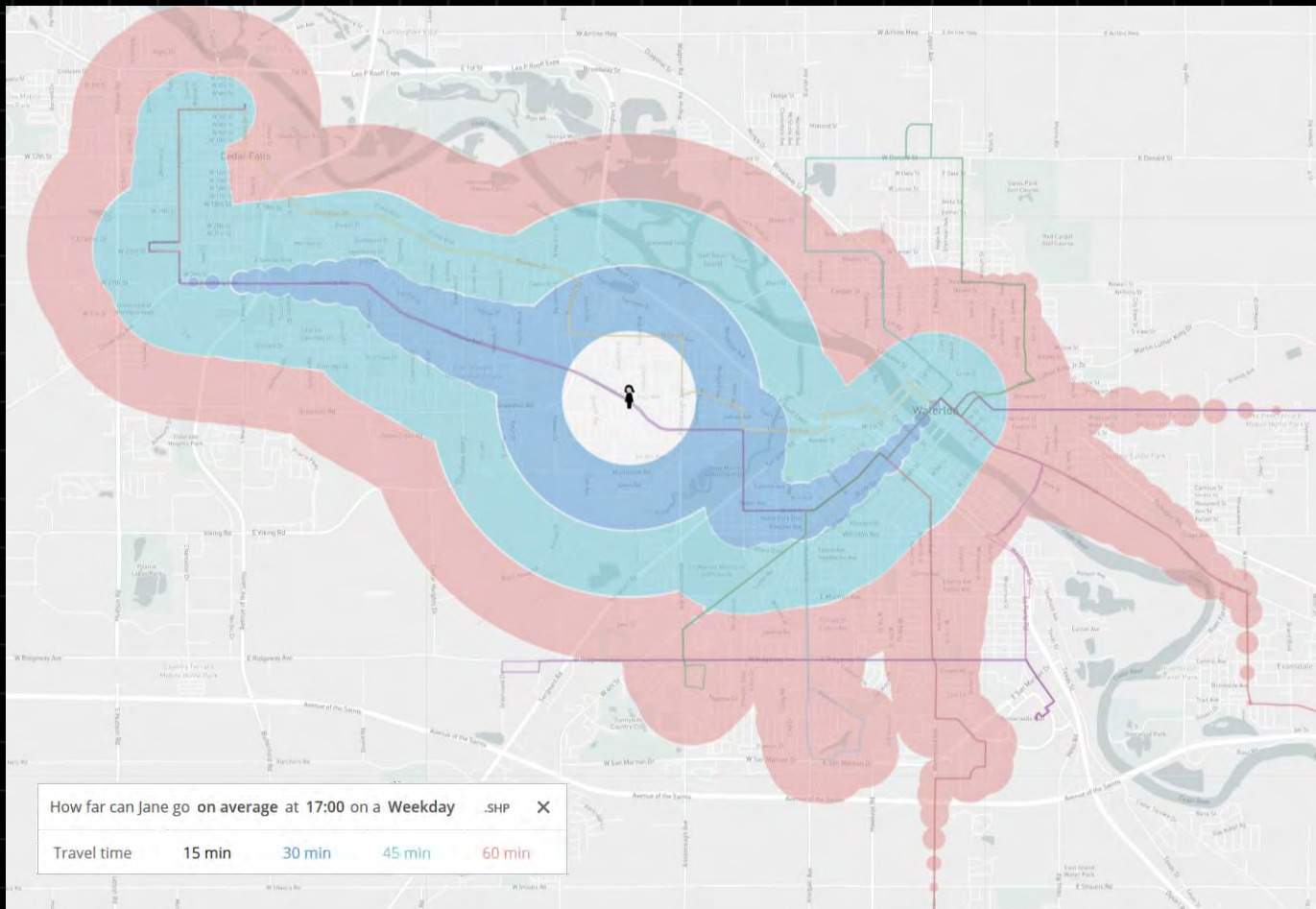
MET Transit, Remix

- Remix software



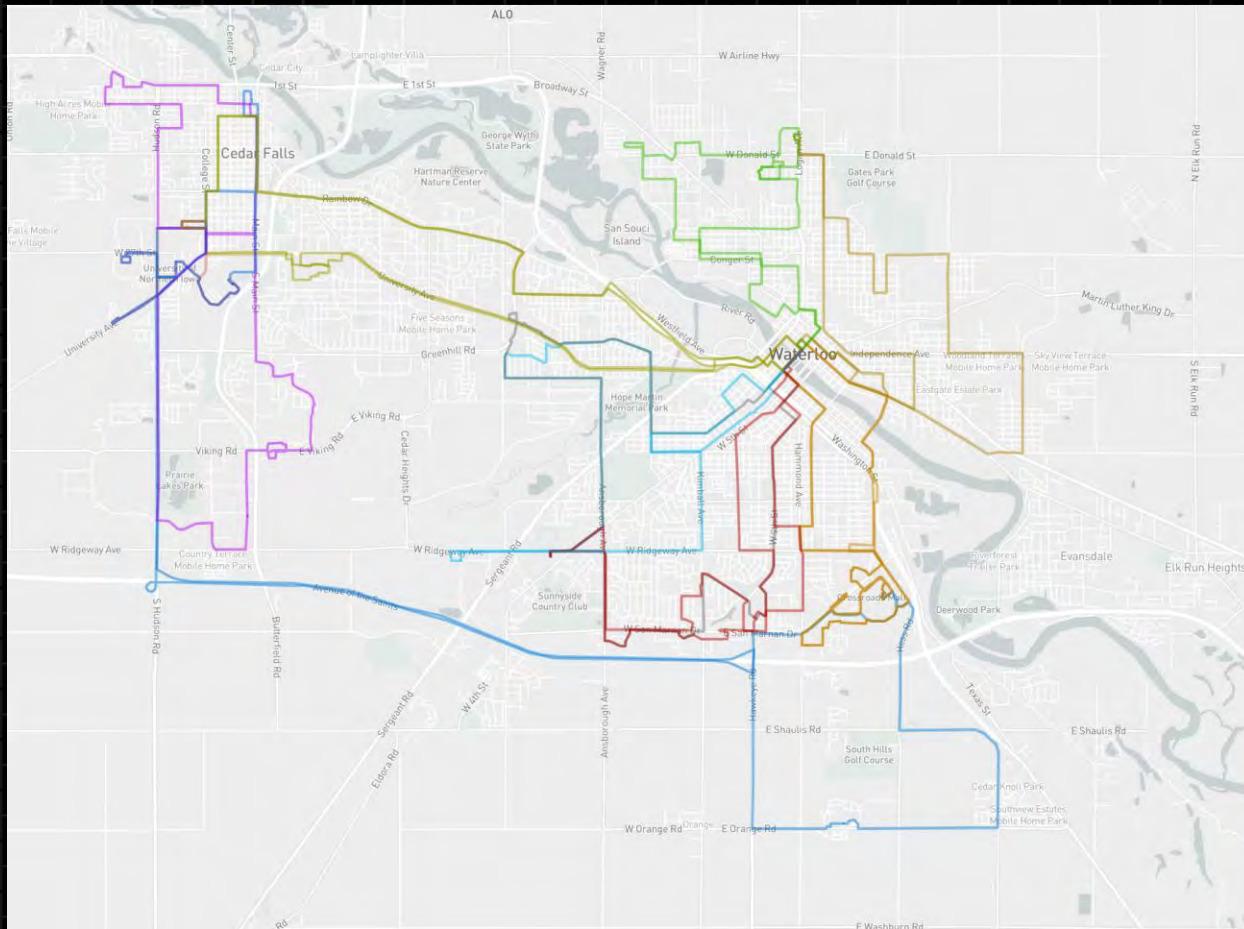
MET Transit, Remix

- Remix software



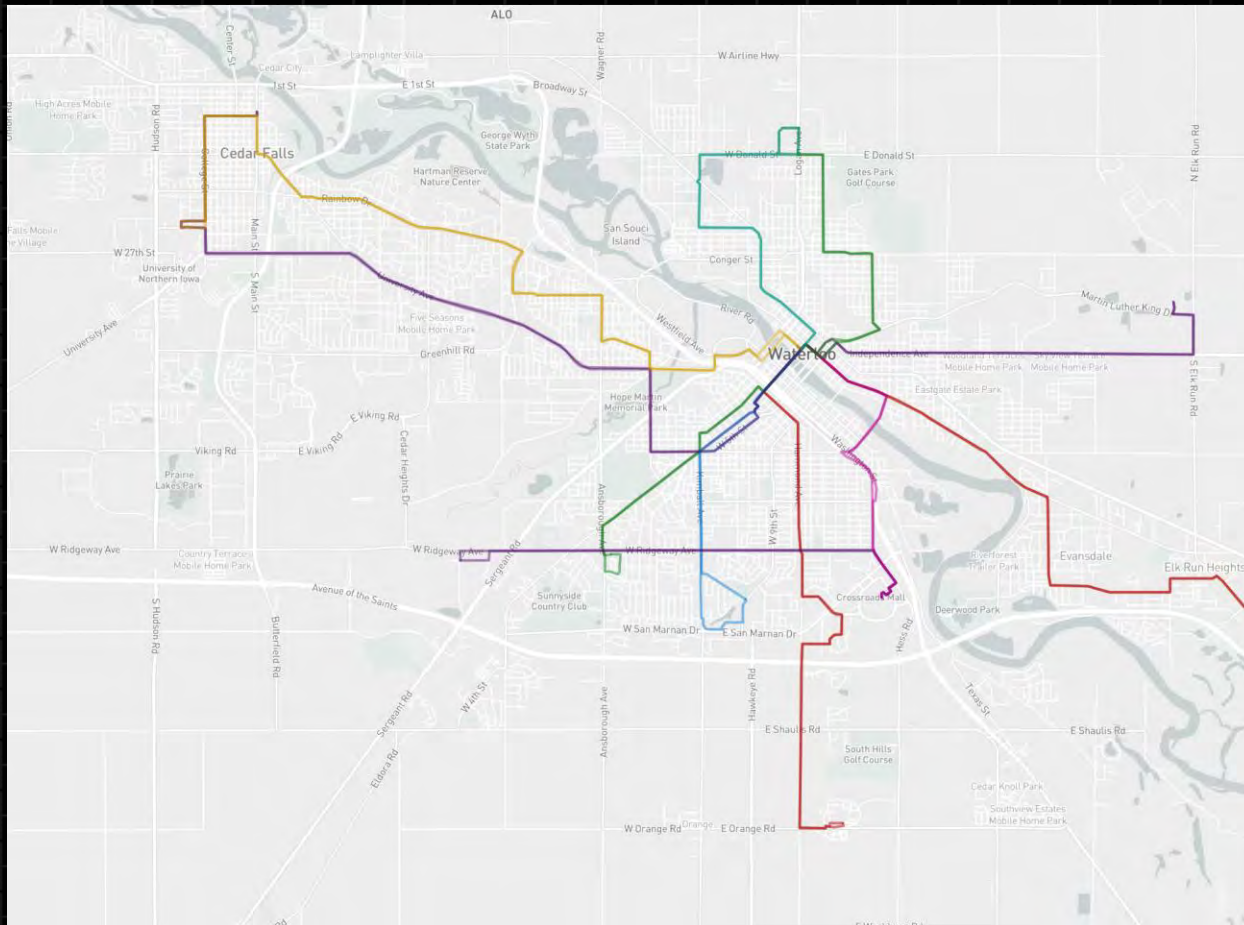
MET Transit, Remix

- Remix software



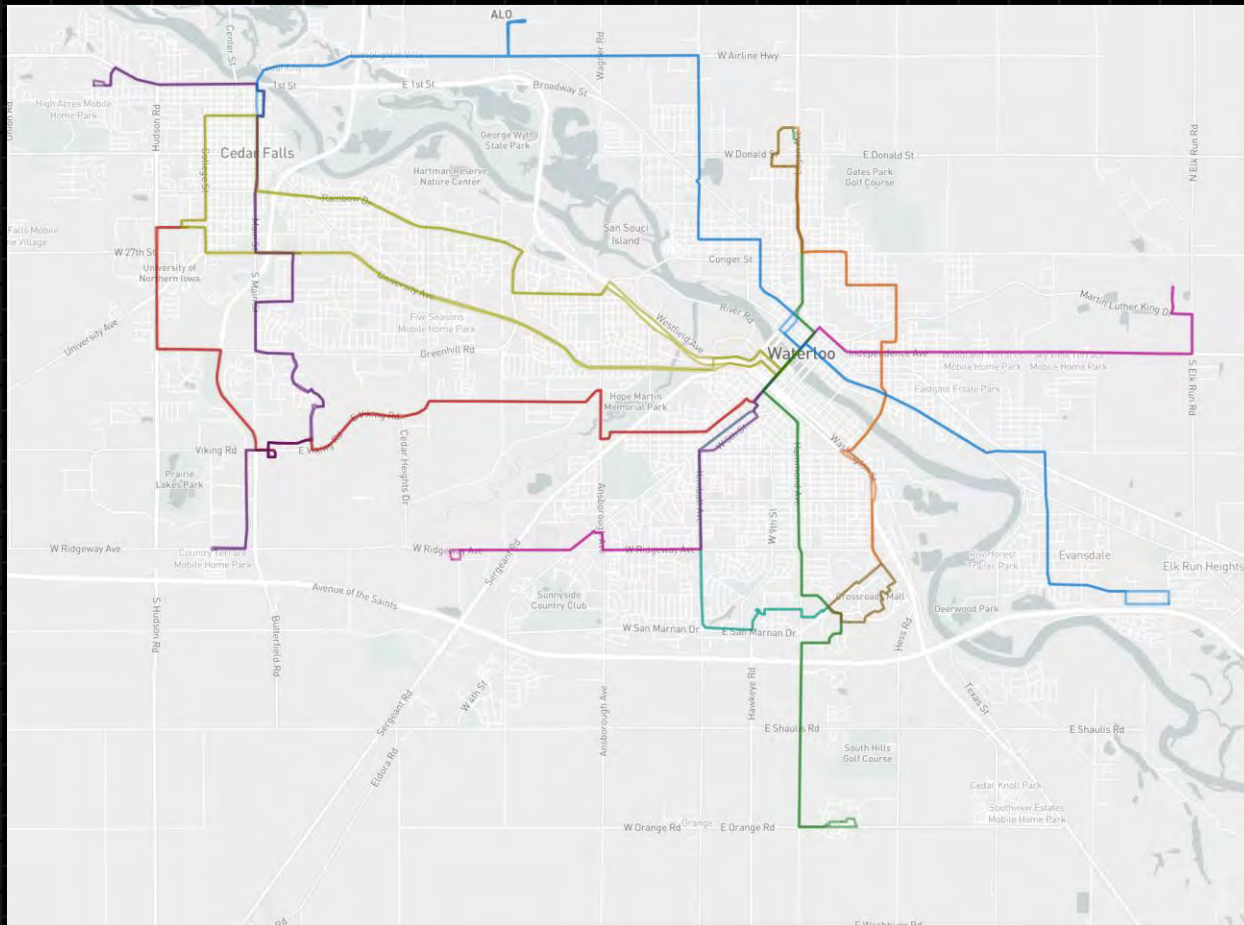
MET Transit, Remix

- Remix software



MET Transit, Remix

- Remix software



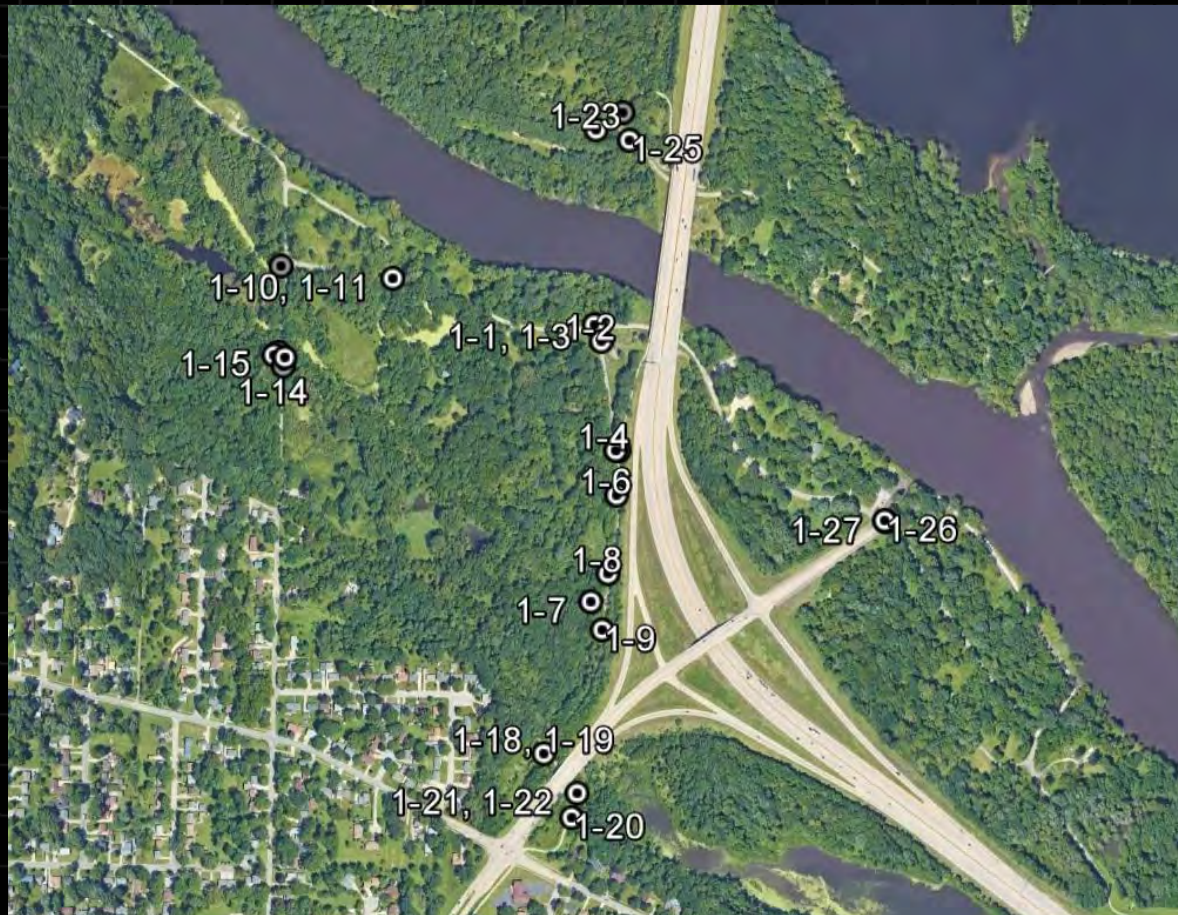
Using GIS as a transportation tool

TRAILS WAYFINDING SIGNS



Trails Wayfinding Signs

- Google Earth as a GIS



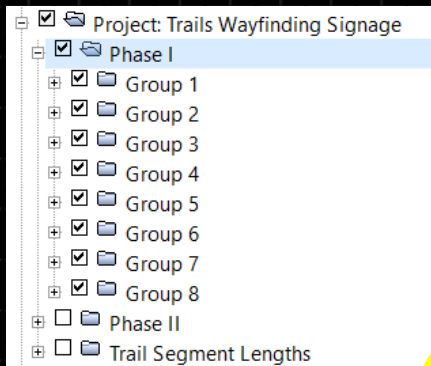
Trails Wayfinding Signs

- Calculating distances quickly



Trails Wayfinding Signs

- Calculating distances quickly



Trails Wayfinding Signs

Sign	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Loc. #	Sign 1	Sign 2	Destination 1	Arrow	Miles	Time	Destination 2	Arrow	Miles	Time	Destination 3	Arrow	Miles	Time	Post	Notes	
2	5-1	Destination		Aquatic Center	Left	0.2	1	Viking Rd Shopping	Left	2.3	14	Uni of Northern Iowa	Up	0.6	4		Mount to traffic pole	
3	5-2	Destination		Aquatic Center	Right	0.2	1	University Ave Shopping	Up	0.5	3	Downtown Cedar Falls	Up	1.9	11		Mount to traffic pole	
4	5-3	Destination		University Ave Shopping	Right	0.5	3	Downtown Cedar Falls	Right	1.9	11	Uni of Northern Iowa	Left	0.6	4	1		
5	5-4	Destination		University Ave Shopping	45° Left	0.4	2	George Wyth State Park	Right	1.7	10	Downtown Cedar Falls	Right	1.8	11	1		
6	5-5	Destination		Aquatic Center	Left	0.3	2	Viking Rd Shopping	Left	2.4	14	University Ave Shopping	45° Right	0.4	2	1	Remove existing wood post	
7	5-6	Destination		Aquatic Center	45° Right	0.3	2	Uni of Northern Iowa	45° Right	0.6	4	Downtown Cedar Falls	45° Left	1.8	11			
8	5-7	Destination		University Ave Shopping	45° Right	0.7	4	Uni of Northern Iowa	45° Left	0.9	5	Downtown Cedar Falls	45° Left	2.2	13	1		
9	5-8	Destination		University Ave Shopping	U-Turn Le	0.7	4	Greenhill Rd Trail	Up	0.8	5	Viking Rd Shopping	Up	2.0	12			
10	5-9	D11-1	M6-3													1		
11	5-10	D11-1	M6-3															
12	5-11	Destination		Aquatic Center	Up	0.5	3	University Ave Shopping	Up	0.7	4	Downtown Cedar Falls	Right	2.1	13	1		
13	5-12	Destination		Uni of Northern Iowa	Up	0.3	2	Hillside/Jennings Courts	Left	0.7	4	Downtown Cedar Falls	Left	2.1	13			
14	5-13	Destination		Hillside/Jennings Courts	Up	0.7	4	George Wyth State Park	U-Turn Le	1.9	11	Downtown Cedar Falls	U-Turn Le	2.1	13	1		
15	5-14	Destination		Uni of Northern Iowa	Up	0.3	2	University Ave Shopping	Up	0.7	4	Downtown Cedar Falls	45° Right	2.1	13			
16	5-15	D1-2b		UNI	Left			Shopping	Right							1		
17	5-16	Destination		Greenhill Rd Trail	Up	0.7	4	Hudson Rd	Up	1.1	7	Prairie Lakes Park	Left	0.8	5	1		
18	5-17	Destination		Prairie Lakes Park	Right	0.8	5	Uni of Northern Iowa	Up	2.5	15	Downtown Cedar Falls	Up	3.8	23			
19	5-18	Destination		Greenhill Rd Trail	Left	0.7	4	Uni of Northern Iowa	Right	2.5	15	Downtown Cedar Falls	Right	3.8	23	1		
20	5-19	D1-2b		UNI	Left			Shopping	Right							1		
21	5-20	Destination		Uni of Northern Iowa	U-Turn Ri	0.3	2	University Ave Shopping	U-Turn Ri	0.7	4	Hillside/Jennings Courts	Up	0.7	4	1		
22	5-21	Destination		Uni of Northern Iowa	45° Right	0.7	4	Greenhill Rd Trail	Left	1.2	7	Viking Rd Shopping	Left	2.4	15			
23	5-22	Destination		Greenhill Rd Trail	Left			Viking Rd Shopping	Up	1.2	7	Sergeant Rd/US-63 Trail	Up	5.6	34	1		
24	5-23	Destination		Greenhill Rd Trail	Right			Uni of Northern Iowa	Up	1.7	10	Downtown Cedar Falls	Up	3.0	18			
25	5-24	D11-1	M6-3													1		
26	5-25	D11-1	M6-3															
27	5-26	Destination		Prairie Lakes Park	Left	1.6	10	Uni of Northern Iowa	45° Right	1.7	10	Downtown Cedar Falls	45° Right	3.0	18	1		
28	5-27	Destination		Viking Rd Shopping	Up	0.6	4	Sergeant Rd/US-63 Trail	Up	5.0	30	Prairie Lakes Park	Left	1.0	6	1		
29	5-28	Destination		Prairie Lakes Park	Right	1.0	6	Uni of Northern Iowa	Up	2.3	14	Downtown Cedar Falls	Up	3.6	22			
30	5-29	Destination		Viking Rd Shopping	Left	0.6	4	Uni of Northern Iowa	Right	2.3	14	Downtown Cedar Falls	Right	3.6	22	1		
31	5-30	D11-1	M6-1													1		
32	5-31	D11-1	M6-1													1		
33	5-32	D11-1	M6-1													1		
34	5-33	Destination		Greenhill Rd Trail	Left	0.7	4	Prairie Lakes Park	Up	0.8	5	Downtown Cedar Falls	Up	3.9	23	1		
35	5-34	D11-1	M6-1													1		
36	5-35	D11-1	M6-1															
37	5-36	Destination		Hudson Rd	Left	0.4	2	Uni of Northern Iowa	Right	2.0	12	Downtown Cedar Falls	Right	3.3	20	1		
38	5-37	Destination		Prairie Lakes Park	Right	1.4	9	Viking Rd Shopping	Right	1.5	9	Downtown Cedar Falls	Up	3.3	20			
39	5-39	Destination		Viking Rd Shopping	Up	1.3	8	Uni of Northern Iowa	Left	1.7	10	Downtown Cedar Falls	Left	3.0	18	1		
40	5-40	Destination		Prairie Lakes Park	Right	1.6	10	Uni of Northern Iowa	Right	1.7	10	Downtown Cedar Falls	Right	3.0	18	1		
41	5-42	Destination		Viking Rd Shopping	Right	1.0	6	Cedar Heights Rd Trail	Up	1.7	10	Downtown Waterloo	Up	7.5	45	1		
42	5-43	Destination		Viking Rd Shopping	Left	1.0	6	Uni of Northern Iowa	Up	1.9	11	Downtown Cedar Falls	Up	3.2	19			
43	5-44	D11-1	M6-3													1		
44	5-45	D11-1	M6-3															
45	5-46	Destination		Peet Junior High	Right	0.2	1	George Wyth State Park	Up	1.4	8	Downtown Cedar Falls	Up	1.6	10	1		
46	5-47	Destination		Peet Junior High	45° Left	0.2	1	Uni of Northern Iowa	45° Left	0.7	4	University Ave Shopping	45° Right	0.7	4	1		
47	5-48	D1-2b		UNI	Left			Jr High	Right							1		
48	5-49	D1-2b		Jr High	Left			UNI	Right							1		
49	5-50	Destination		Aquatic Center	Left	0.5	3	University Ave Shopping	Left	0.7	4	Downtown Cedar Falls	Right	1.6	10	1		
50	5-51	Destination		University Ave Shopping	Left	0.7	4	George Wyth State Park	45° Right	1.4	8	Downtown Cedar Falls	45° Right	1.6	10	1		
51	5-52	D11-1	M6-1															
52	5-53	D11-1	M6-1															
53	5-54	D1-2b		UNI	Left			Downtown	Right							1		
54	5-55	D11-1	M6-3													1		
55	5-56	D11-1	M6-3													1		

Trails Wayfinding Signs



Using GIS as a tool in Transportation Planning



INRCOG
Iowa Northland
Regional Council
Of Governments

Codie Leseman, Transportation Planner II
Kyle Durant, Transportation Planner II
Iowa Northland Regional Council of Governments (INRCOG)
(319) 235-0311