

Duluth-Superior Area Truck Route Study



Committee Meeting
August 2, 2018

Duluth-Superior Metropolitan Interstate Council



Study Goal

Identify the most efficient, safest, and least disruptive truck route network within and through the Duluth-Superior area for the movement of goods and services via trucks, and support the inclusion of the identified network into local plans.

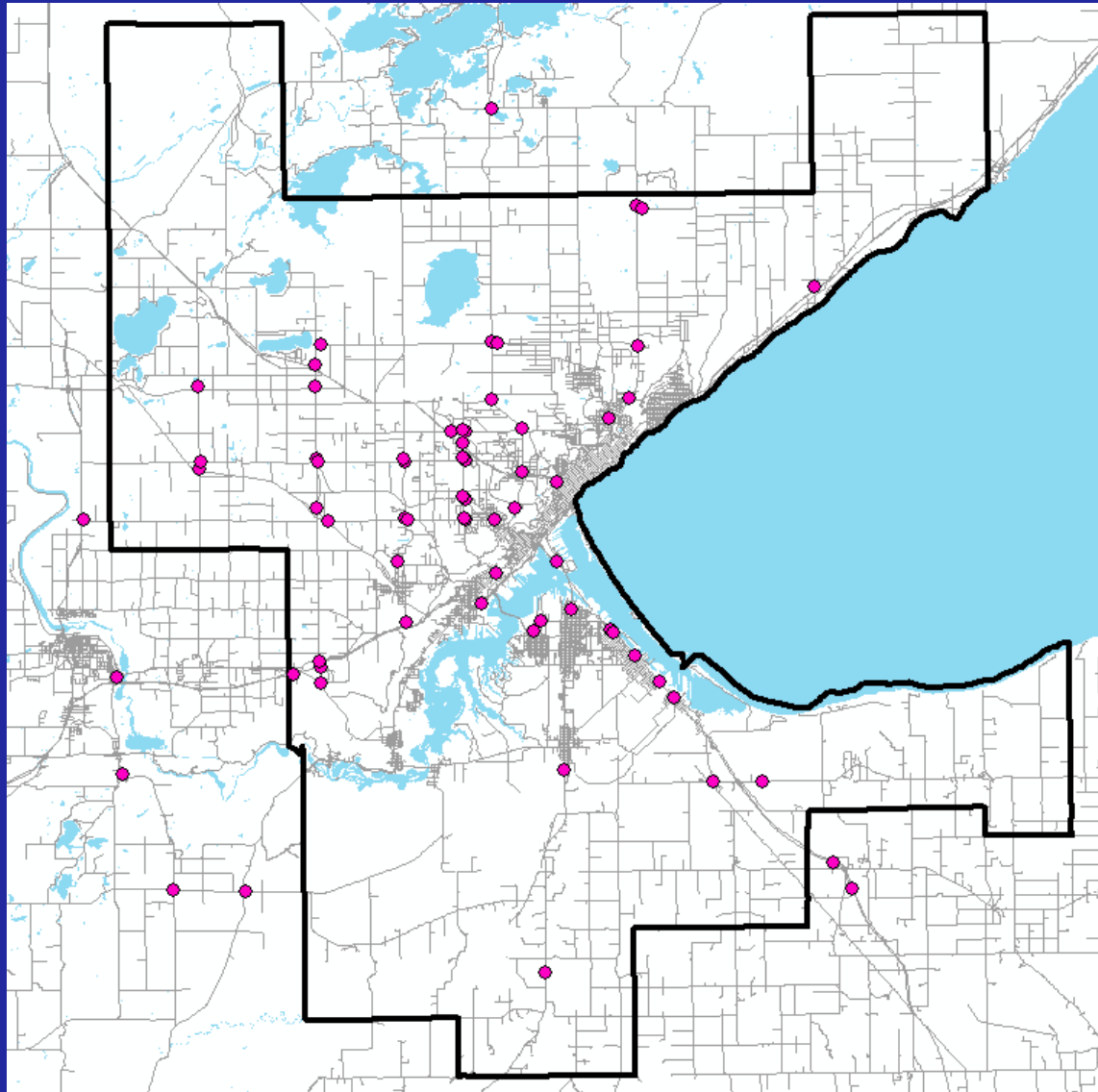
Agenda

1. Introductions
2. Update on Truck Counts
3. TRS Survey Results
4. Final TRS Report Topics
5. Next Steps / Action Items
6. Roundtable
7. Next Meeting

Truck Counts - Summary

- Provided By: Wisconsin DOT, St Louis & Carlton Counties
- 67 Locations
- All from 2016 and 2017
- Not Identical - But Useable
- Hoping For Additional Truck Count and Accident Data
 - Douglas County
 - Minnesota DOT

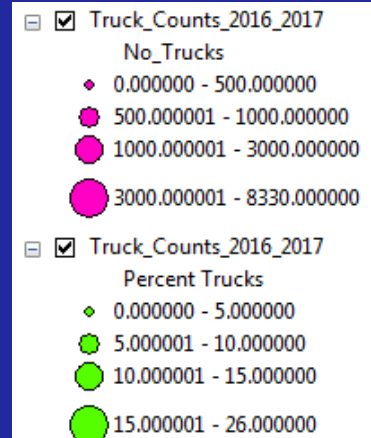
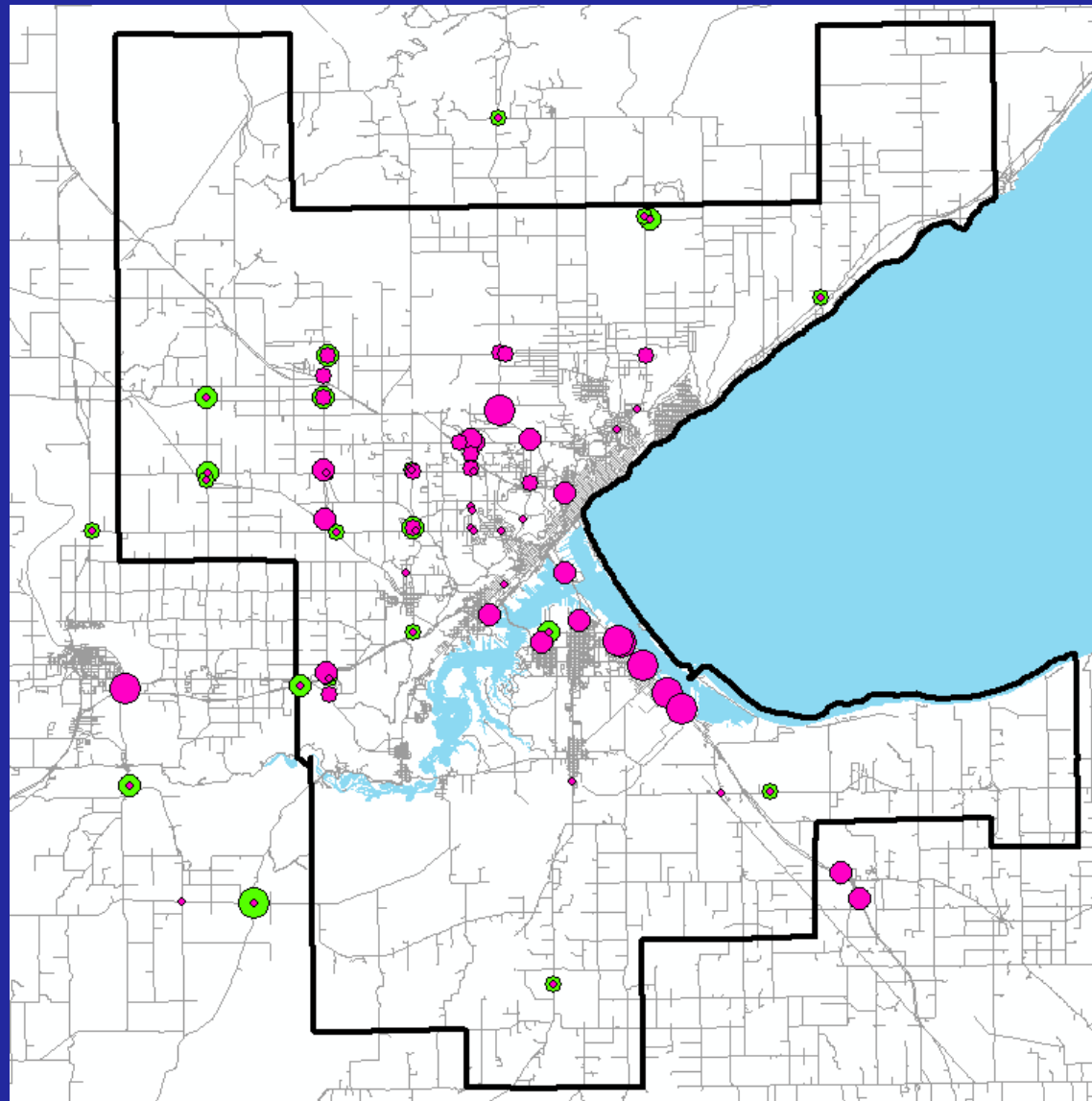
Truck Count Locations



Truck Counts

% Trucks

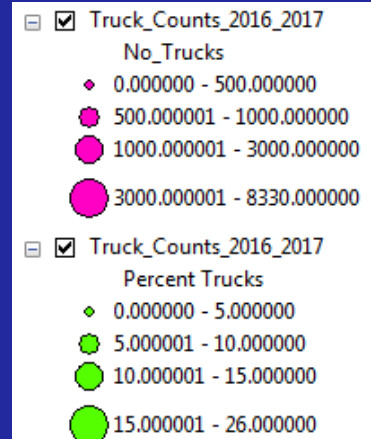
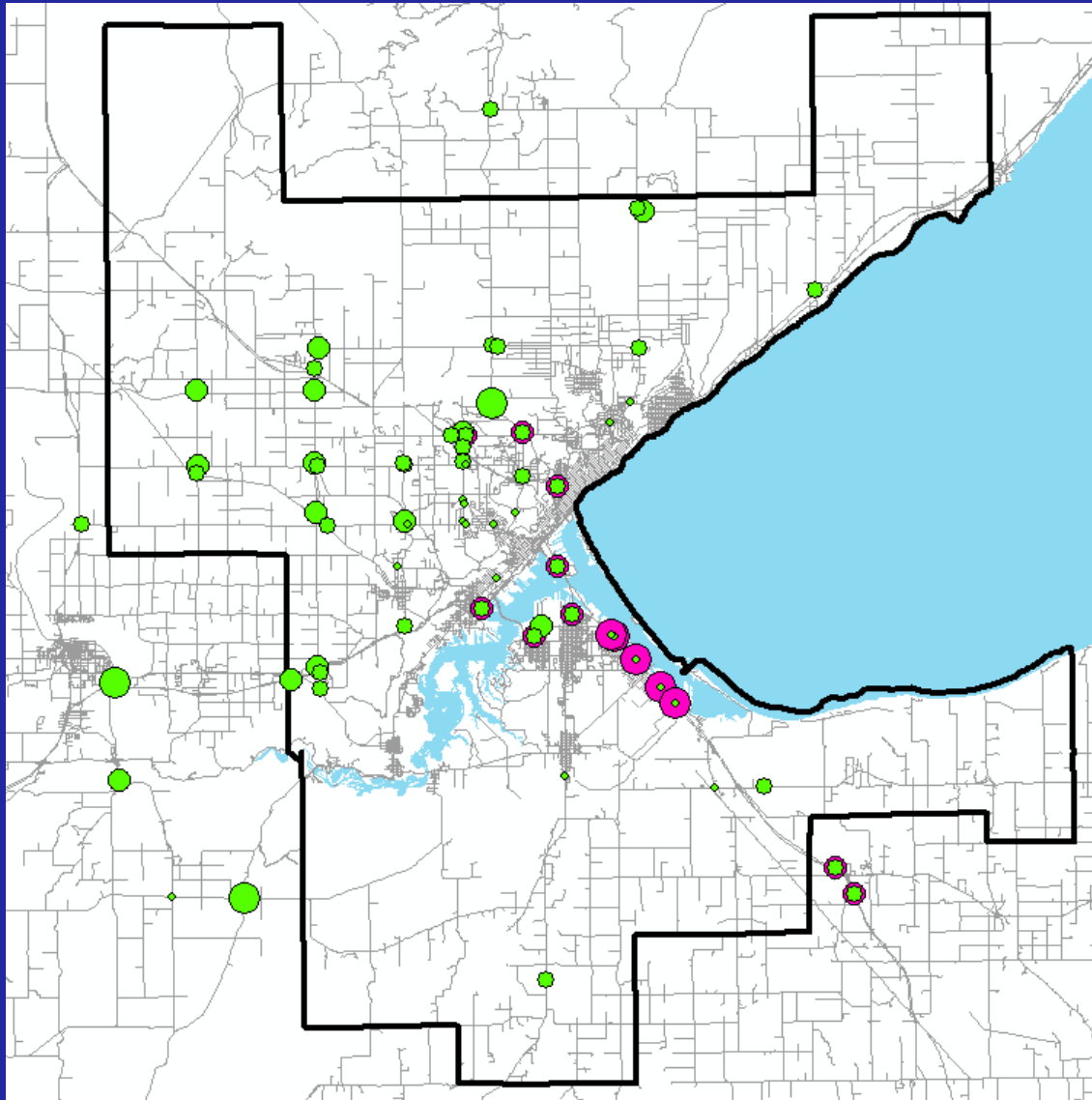
of Trucks



Truck Counts

% Trucks

of Trucks



Truck Counts - Data

FID	Shape *	Site	Id	Site_id	Location	Municipali	No_Trucks	Tot_Traffi	No_Trucks1	Min_Ft	Max_Ft	date1	date2
58	Point	37B	0	0	Jean Duluth Road N of Glenwood Street	C of Duluth	0	0	0	0	0	August	2017
59	Point	37A	0	0	Snively Road E of CSAH 9 (Woodland Avenue)	C of Duluth	0	0	0	0	0	August	2017
21	Point	6A	0	0	Maple Grove Road E of CSAH 98 (Canosia Road)	Solway Township	22	338	6.5	0	0	October	2017
20	Point	56A	0	0	Morris Thomas Road E of TH 33		68	915	7.4	0	0	October	2017
36	Point	54B	0	0	Piedmont Avenue E of CSAH 56 (Morris Thomas Road)	C of Duluth	106	2501	4.2	0	0	July	2017
32	Point	56C	0	0	Morris Thomas Road E of CSAH 48 (Lavaque Road)	C of Hermantown	110	2921	3.8	0	0	July	2017
37	Point	56D	0	0	Morris Thomas Road E of CSAH 91 (Haines Road)	C of Duluth	118	3296	3.6	0	0	July	2017
8	Point		0	0	Cnty E and Cnty Z	Parkland Township	128	2591	4.94	0	0	July	2015
19	Point	48A	0	0	Lavaque Road N of CR 696 (St. Louis River Road)	C of Proctor	142	2996	4.7	0	0	July	2017
60	Point	33A	0	0	McQuade Road N of TH 61	Lakewood Township	142	1136	12.5	0	0	August	2017
54	Point	44A	0	0	Normanna Road E of CSAH 4 (Rice Lake Road)		148	1557	9.5	0	0	October	2017
14	Point	3A	0	0	Becks Road E of Carlton County Line	Midway Township	151	908	16.6	0	0	June	2017
28	Point	56B	0	0	Morris Thomas Road E of US 2	C of Hermantown	173	1483	11.7	0	0	June	2017
5	Point	160272	160272	160272	WI 13 just E of intersection with US 2/53	Parkland Township	183	3458	5.292076	19	200	March	2017
39	Point	54A	0	0	Piedmont Avenue E of CSAH 91 (Haines Road)	C of Duluth	230	6490	3.5	0	0	July	2017
49	Point	90A	0	0	Arlington Avenue N of US 53	C of Duluth	235	7022	3.3	0	0	July	2017
35	Point	91A	0	0	Haines Road N of Grand Avenue	C of Duluth	249	5074	4.9	0	0	July	2017
23	Point	98B	0	0	Canosia Road N of TH 194	Solway Township	259	1070	24.2	0	0	October	2017
38	Point	91B	0	0	Haines Road N of CSAH 56 (Morris Thomas Road)		292	7436	3.9	0	0	July	2017
34	Point	48C	0	0	Lavaque Road N of CSAH 6 (Maple Grove Road)	C of Hermantown	293	3440	8.5	0	0	July	2017
41	Point	6D	0	0	Maple Grove Road E of CSAH 91 (Haines Road)	C of Duluth	305	10964	2.8	0	0	July	2017
55	Point	37D	0	0	Jean Duluth Road N of CSAH 43 (Zimmerman Road)		311	2255	13.8	0	0	August	2017
22	Point	98A	0	0	Canosia Road N of US 2	Solway Township	328	1330	24.7	0	0	October	2017
0	Point	160101	160101	160101	WI 35 N of Cnty B	Superior Township	347	5709	6.078122	19	200	March	2017
56	Point	43A	0	0	Zimmerman Road E of CSAH 37 (Jean Duluth Road)	Lakewood Township	350	1823	19.2	0	0	August	2017
18	Point	14A	0	0	Boundary Avenue N of I-35	C of Proctor	359	3661	9.8	0	0	July	2017
40	Point	91C	0	0	Haines Road N of CSAH 54 (Piedmont Avenue)		422	11150	3.8	0	0	July	2017
1	Point	160307	160307	160307	WI 35 between 69th and 74th	V of Superior	432	11493	3.75881	19	200	March	2017
30	Point	6B	0	0	Maple Grove Road E of CSAH 13 (Midway Road)	C of Hermantown	463	4470	10.4	0	0	June	2017
16	Point	13A	0	0	Midway Road S of I-35 Ramp	Midway Township	477	3996	11.9	0	0	June	2017
2	Point	160983	160983	160983	Winter St just E of Maryland Ave	C of Superior	486	2928	16.598361	19	200	March	2017
15	Point	3B	0	0	Becks Road S of CSAH 13 (Midway Road)	Midway Township	512	4202	12.2	0	0	June	2017
42	Point	91D	0	0	Haines Road N of CSAH 6 (Maple Grove Road)		528	10110	5.2	0	0	August	2017
53	Point	9B	0	0	Martin Road E of CSAH 4 (Rice Lake Road)	C of Rice Lake	532	5828	9.1	0	0	August	2017
31	Point	48B	0	0	Lavaque Road N of CSAH 56 (Morris Thomas Road)	C of Hermantown	566	3248	17.4	0	0	October	2017
52	Point	4D	0	0	Rice Lake Road N of CSAH 9 (Martin Road)	C of Rice Lake	680	6978	9.7	0	0	August	2017
24	Point	9A	0	0	Martin Road E of CSAH 13 (Midway Road)	Canosia Township	702	3087	22.7	0	0	August	2017
33	Point	6C	0	0	Maple Grove Road E of CSAH 48 (Lavaque Road)	C of Hermantown	702	7269	9.7	0	0	June	2017
25	Point	13F	0	0	Midway Road N of US 53	Canosia Township	756	5201	14.5	0	0	August	2017
57	Point	37C	0	0	Jean Duluth Road N of CSAH 10 (Martin Road)	C of Duluth	799	6301	12.7	0	0	August	2017
48	Point	90B	0	0	Arlington Avenue N of TH 194	C of Duluth	858	10051	8.5	0	0	October	2017
26	Point	13E	0	0	Midway Road N of TH 194	C of Hermantown	871	4884	17.8	0	0	June	2017
45	Point	32A	0	0	Arrowhead Road E of US 53	C of Hermantown	953	12066	7.9	0	0	October	2017
43	Point	91E	0	0	Haines Road N of US 53		985	9018	10.9	0	0	October	2017
7	Point	160526	160526	160526	US 2 Just W of Garfield roundabout	C of Superior	1094	16162	6.768964	29	200	March	2017
17	Point	13B	0	0	Midway Road N of I-35 Ramp	Midway Township	1207	7653	15.8	0	0	July	2017
47	Point	4B	0	0	Rice Lake Road N of CSAH 32 (Arrowhead Road)	C of Duluth	1256	10349	12.1	0	0	July	2017
50	Point	4A	0	0	Rice Lake Road N of TH 194	C of Duluth	1308	13584	9.6	0	0	August	2017
27	Point	13D	0	0	Midway Road N of CSAH 6 (Maple Grove Road)	C of Hermantown	1381	7080	19.5	0	0	June	2017
46	Point	91F	0	0	Haines Road N of CSAH 32 (Arrowhead Road)		1438	8859	16.2	0	0	October	2017
3	Point	160275	160275	160275	US 53 just S of intersection with US 2	Amnicon Township	1650	12367	13.341958	19	200	March	2017
29	Point	13C	0	0	Midway Road N of US 2	C of Hermantown	1855	9945	18.7	0	0	June	2017



Truck Route Study Survey Summary

- Purpose:
 - To seek input from those in the trucking industry or maintaining truck route roadways
 - In order to provide the most useful study recommendations possible
- 11 Questions + location-specific comment options
- Open February 21 – April 30
- 42 People Responded

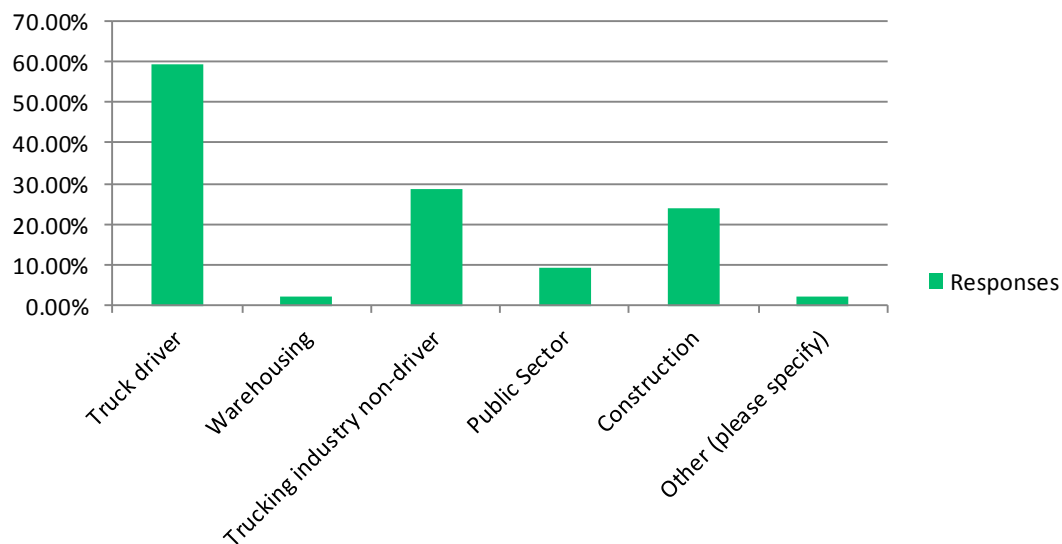
Survey Results 1

2018 Duluth-Superior Area Truck Route Study Survey

What is your role in trucking? (check one)

Answer Choices	Responses	
Truck driver	59.52%	25
Warehousing	2.38%	1
Trucking industry non-driver	28.57%	12
Public Sector	9.52%	4
Construction	23.81%	10
Other (please specify)	2.38%	1
	Answered	42
	Skipped	0

What is your role in trucking? (check one)

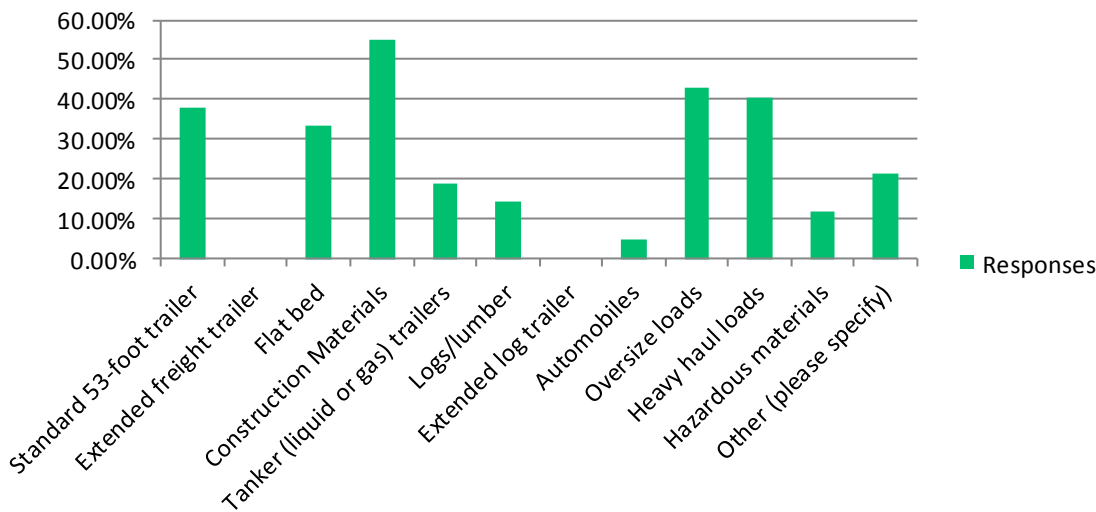


2018 Duluth-Superior Area Truck Route Study Survey

What do you pull and/or haul? (check all that apply)

Answer Choices	Responses		
Standard 53-foot trailer	38.10%	16	
Extended freight trailer	0.00%	0	
Flat bed	33.33%	14	
Construction Materials	54.76%	23	
Tanker (liquid or gas) trailers	19.05%	8	
Logs/lumber	14.29%	6	
Extended log trailer	0.00%	0	
Automobiles	4.76%	2	
Oversize loads	42.86%	18	
Heavy haul loads	40.48%	17	
Hazardous materials	11.90%	5	
Other (please specify)	21.43%	9	
	Answered	42	118
	Skipped	0	

What do you pull and/or haul? (check all that apply)

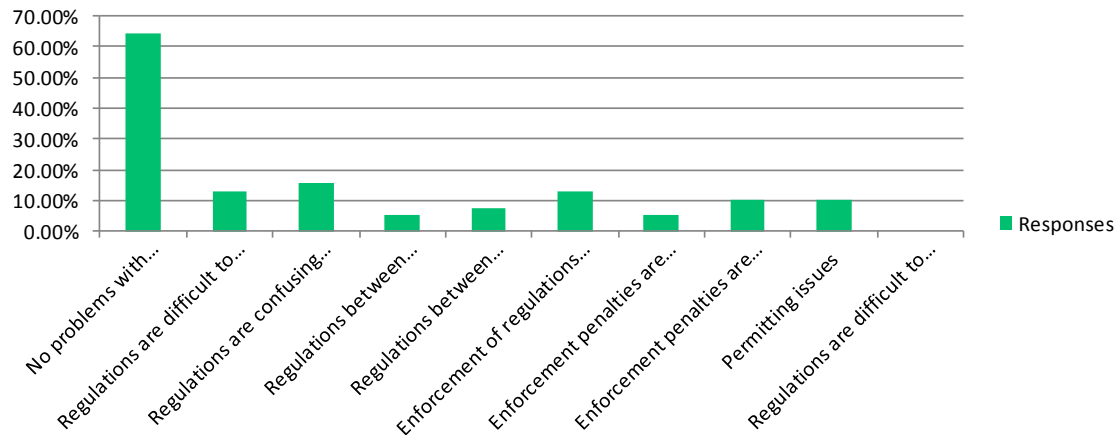


Survey Results 2

Survey Results 3

2018 Duluth-Superior Area Truck Route Study Survey			
Do you have any of the following concerns related to trucking regulations or their enforcement in the Duluth-Superior area? (check all that apply)			
Answer Choices	Responses		
No problems with regulations or enforcement	64.10%	25	
Regulations are difficult to find	12.82%	5	
Regulations are confusing or difficult to understand	15.38%	6	
Regulations between jurisdictions are not uniform	5.13%	2	
Regulations between trucking types are not consistent	7.69%	3	
Enforcement of regulations is not consistent	12.82%	5	
Enforcement penalties are too light (i.e., are not a deterrent)	5.13%	2	
Enforcement penalties are too severe	10.26%	4	
Permitting issues	10.26%	4	
Regulations are difficult to meet (explain):	0.00%	0	
	Answered	39	56
	Skipped	3	

Do you have any of the following concerns related to trucking regulations or their enforcement in the Duluth-Superior area? (check all that apply)



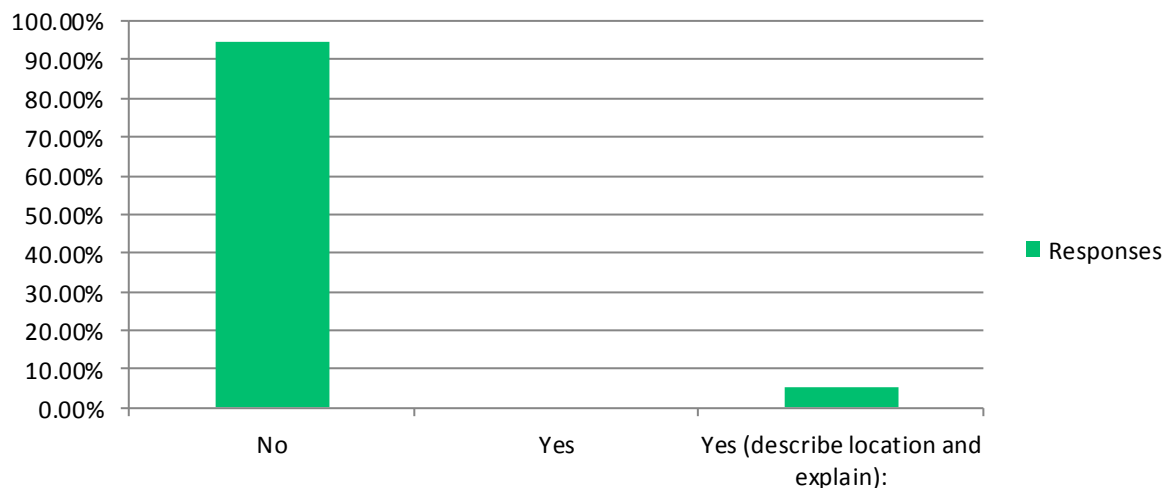
Survey Results 4

2018 Duluth-Superior Area Truck Route Study Survey

Are any changes to existing truck route signage needed? (Note, you may also provide comment via interactive map)

Answer Choices	Responses				
No	94.44%	34			
Yes	0.00%	0			
Yes (describe location and explain):	5.56%	2			
Answered		36			
Skipped		6			

Are any changes to existing truck route signage needed? (Note, you may also provide comment via interactive map)



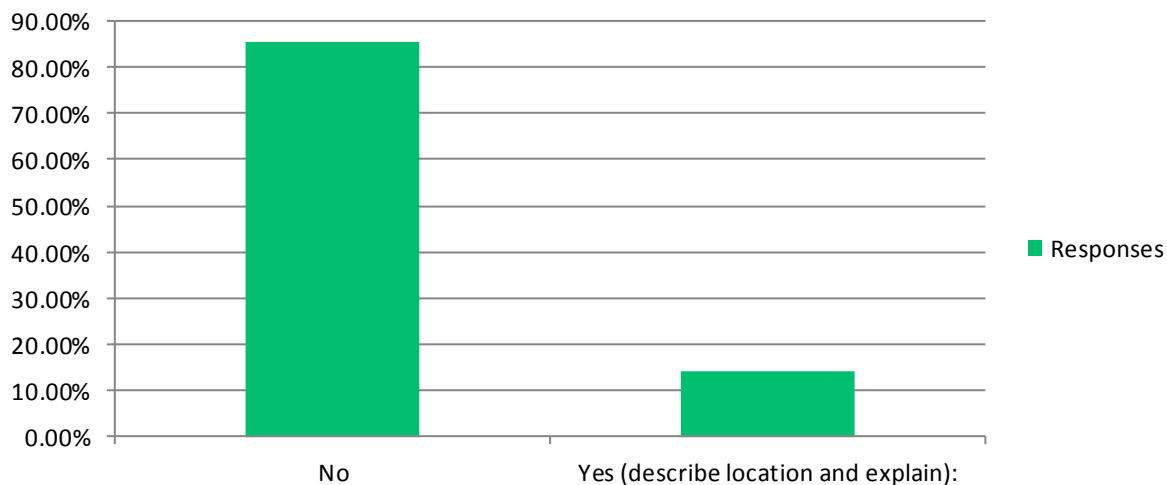
Survey Results 5

2018 Duluth-Superior Area Truck Route Study Survey

Are any traffic signal changes needed? (Note, you may also provide comment via interactive map)

Answer Choices	Responses				
No	85.71%	30			
Yes (describe location and explain):	14.29%	5			
Answered		35			
Skipped		7			

Are any traffic signal changes needed? (Note, you may also provide comment via interactive map)



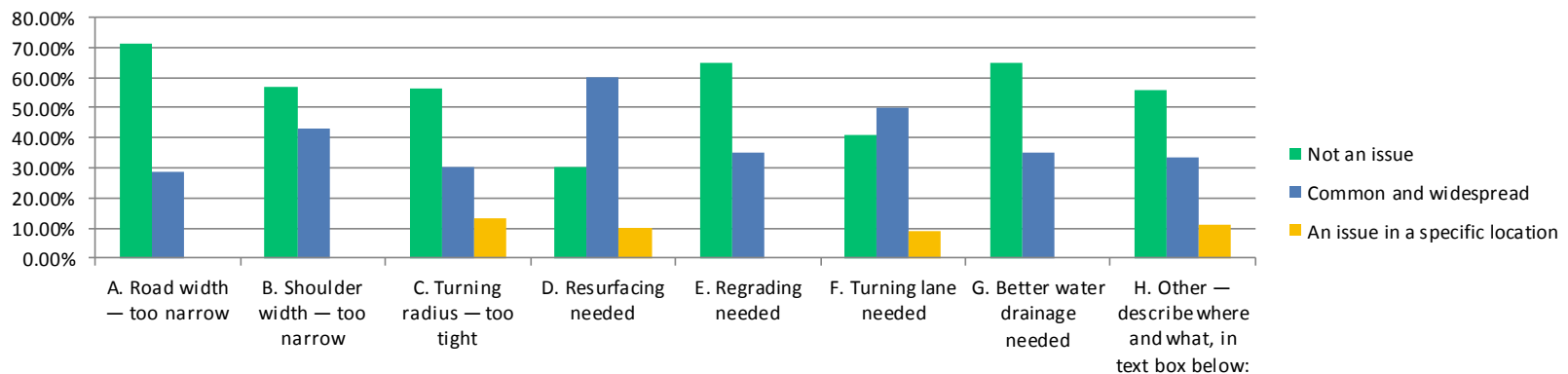
Survey Results 6

2018 Duluth-Superior Area Truck Route Study Survey

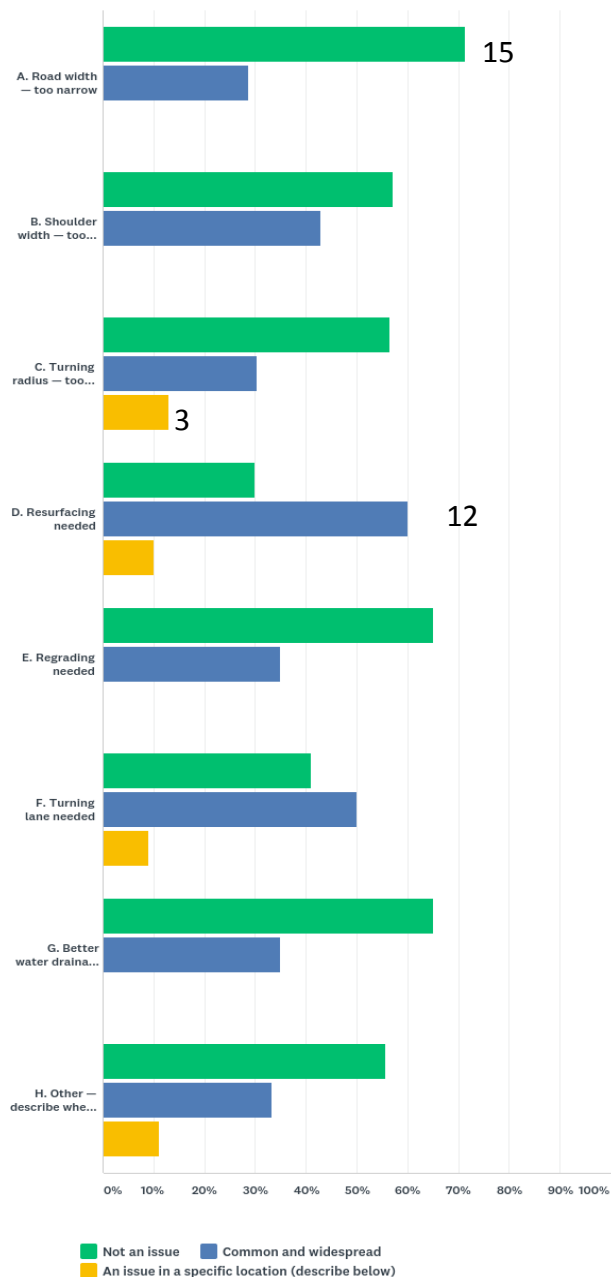
How common are the following roadway or infrastructure issues along truck routes in the Duluth-Superior area? (Note, you may also provide comments about a specific location via the interactive map)

	Not an issue	Common and widespread	An issue in a specific location	Total
A. Road width — too narrow	71.43% 15	28.57% 6	0.00% 0	21
B. Shoulder width — too narrow	57.14% 12	42.86% 9	0.00% 0	21
C. Turning radius — too tight	56.52% 13	30.43% 7	13.04% 3	23
D. Resurfacing needed	30.00% 6	60.00% 12	10.00% 2	20
E. Regrading needed	65.00% 13	35.00% 7	0.00% 0	20
F. Turning lane needed	40.91% 9	50.00% 11	9.09% 2	22
G. Better water drainage needed	65.00% 13	35.00% 7	0.00% 0	20
H. Other — describe where and what, in text box below:	55.56% 5	33.33% 3	11.11% 1	9
Describe specific location(s) and needed improvements:				6
	86	62	8	
			Answered	24
			Skipped	18

How common are the following roadway or infrastructure issues along truck routes in the Duluth-Superior area? (Note, you may also provide comments about a specific location via the interactive map)



Q6 How common are the following roadway or infrastructure issues along truck routes in the Duluth-Superior area? (Note, you may also provide comments about a specific location via the interactive map)



Survey Results 6

n = 86, 62, 8
24 people

Resurfacing Needed
&
Turning Lane Needed
are only issues where the
problem was rated greater than
“not an issue”

Survey Results 7

2018 Duluth-Superior Area Truck Route Study Survey

If there is an especially problematic truck route segment or intersection in the Duluth-Superior area, please identify where it is. (Note, you may also provide comment via interactive map)

Answer Choices		Responses
LOCATION 1 (describe):	100.00%	9
	Answered	9
	Skipped	33
Respondents	Response Date	LOCATION 1 (describe):
1	May 08 2018 03:55 PM	Highway 61 North
2	May 08 2018 03:49 PM	Woodland Avenue and Arrowhead
3	May 08 2018 03:48 PM	Rice Lake Road and Martin Road
4	May 08 2018 12:12 PM	Arrowhead and 53 turning lanes for plowing. Island makes it difficult to plow and clean up.
5	Apr 17 2018 02:43 PM	MN194 and HWY 53
6	Apr 13 2018 10:37 AM	Tower to winter steet
7	Apr 12 2018 09:43 AM	I35 Tunnels
8	Mar 07 2018 10:10 PM	Can of Worms Intersection.
9	Mar 02 2018 02:01 PM	hwy 53 and E St. in Superior

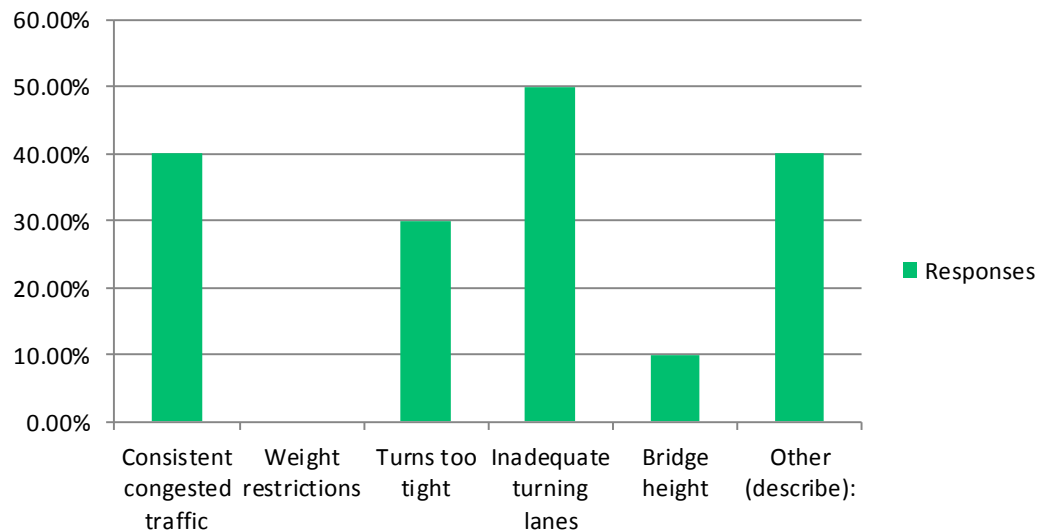
Survey Results 8

2018 Duluth-Superior Area Truck Route Study Survey

For location 1, above, what is the problem? (check all that apply)

Answer Choices	Responses				
Consistent congested traffic	40.00%	4			
Weight restrictions	0.00%	0			
Turns too tight	30.00%	3			
Inadequate turning lanes	50.00%	5			
Bridge height	10.00%	1			
Other (describe):	40.00%	4			
Answered		10			
Skipped		32			

For location 1, above, what is the problem? (check all that apply)



Survey Results 9

2018 Duluth-Superior Area Truck Route Study Survey

If there is another problematic truck route segment or intersection in the Duluth-Superior area, please identify where it is. (Note, you may also provide comment via interactive map)

Answer Choices		Responses
LOCATION 2 (describe):	100.00%	3
	Answered	3
	Skipped	39
Respondents	Response Date	LOCATION 2 (describe):
1	May 08 2018 03:48 PM	Highway 23
2	Apr 17 2018 02:43 PM	Hwy 2 MN 194 intersection bridge
3	Mar 02 2018 02:01 PM	solid railings at 535 entering I35 south bound

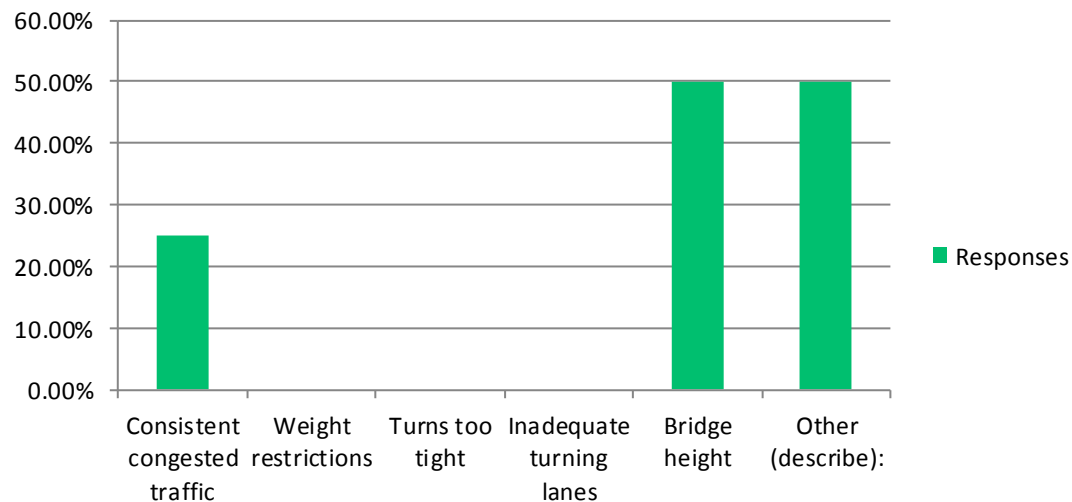
Survey Results 10

2018 Duluth-Superior Area Truck Route Study Survey

For location 2, above, what is the problem? (check all that apply)

Answer Choices	Responses				
Consistent congested traffic	25.00%	1			
Weight restrictions	0.00%	0			
Turns too tight	0.00%	0			
Inadequate turning lanes	0.00%	0			
Bridge height	50.00%	2			
Other (describe):	50.00%	2			
	Answered	4			
	Skipped	38			

For location 2, above, what is the problem? (check all that apply)



Survey Results 11

2018 Duluth-Superior Area Truck Route Study Survey		
Do you have any other comments about truck routes in the Duluth-Superior area?		
Answered	3	
Skipped	39	
Respondents	Response Date	Responses
1	Apr 17 2018 02:43 PM	More truck hauling signs near gravel Pits
		Superior does a good job of labeling No Truck Routes . I only drive in a few parts of Duluth and have had no issues. I think the No Truck sign on Piedmont as you turn right from Superior Street could be placed before climbing up towards the bridge connecting it to US 53. Only done that in my car but the sign is only there once you are already in a residential area.
2	Mar 07 2018 10:14 PM	
3	Mar 02 2018 02:07 PM	none

Summary of Survey Results

- Majority have no problem with regulations or enforcement
- No change to truck route signage needed
- Majority see no need for changes to traffic signals
- Two primary infrastructure-related issues:
 - Resurfacing needed
 - Turning lanes needed
- 16 site-specific suggestions



Final TRS Report Topics

- Introduction and Overview
- Current Conditions
 - Existing Positives
 - Concerns
- Map of Existing & Proposed Truck Routes
 - Truck Counts
 - Accidents Involving Trucks
- Recommendations
- Summary of Survey Responses

Primary Truck Route Study Contact

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