



A program of



# East/West Transportation Corridor Perception Research

A Report Prepared for  
Traverse Transportation Coordinating Initiative (TTCI)

*Submitted by:*

**CS Research & Consulting, LLC**

October 27, 2016

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# East/West Transportation Corridor

## 2016 Perception Research

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### Executive Summary

- ❖ Research Objective - to assess commuter perception of real and potential east/west mobility assets in Grand Traverse County, MI, with focus on the Traverse City Urbanized Area.
- ❖ Telephone survey conducted with a random sample of residents, 18 years of age and over, in the Traverse City Urbanized Area - includes City of Traverse City, along with Elmwood, Garfield, East Bay, Blair, Acme, and Peninsula townships.
- ❖ A total of 413 surveys completed, proportionate to the Urbanized Area, for an approximate +/- 4.81% margin of error and a 95% confidence level for the area as a whole.
- ❖ The vast majority of respondents (95%) reported they are a Year-Round Resident, residing in the area 10 – 12 months out of the year.
- ❖ The single largest group of respondents (35%) indicated they most frequently travel along the Bayshore Corridor, while an equal number (22%) cited 8<sup>th</sup> Street and South Airport and 19% cited Hammond/Keystone/Beitner.
- ❖ Respondents indicated at what time of day they are likely to travel each of four east-west corridors: morning, afternoon, and/or evening. Approximately half reported they are likely to travel Bayshore, 8<sup>th</sup> Street or South Airport in the morning, with the highest reported afternoon usage of 8<sup>th</sup> and South Airport, at 60% and 62%, respectively. Percent of respondents reporting they are likely to travel a corridor in the evening ranged from 29% (Hammond/Keystone/Beitner) to 38% (Bayshore).
- ❖ The single largest group of respondents (32%) indicated they Often avoid local areas/attractions due to traffic congestion; approximately one-quarter reported Always or Occasionally (26% and 27%, respectively). A total of 15% indicated they Rarely or Never avoid local areas/attractions due to traffic congestion.
- ❖ Respondents indicating they Always, Often or Occasionally avoid areas or attractions due to traffic congestion were asked what areas/attractions they avoid. While 45% cited Downtown and 31% cited Cherry Festival, the majority cited an area or location other than those coded, with frequently cited areas/locations including Bayshore, 8<sup>th</sup> Street and South Airport corridor intersections/sites.

# Executive Summary

- ❖ The majority of respondents (52%) indicated, in their opinion, an additional east-west crossing would have a High Impact on east-west travel congestion; 24% felt an additional crossing would have a Medium Impact and 8% felt it would have Low or No Impact; 17% were uncertain.
- ❖ Regarding support for a new east-west crossing over the Boardman River, located somewhere between South Airport and Chums Corners, the majority of respondents (64%) indicated support, with 13% indicating they do not support and 24% Uncertain.
- ❖ Regarding the statement “There is excessive (non-local) traffic in my neighborhood,” 43% of respondents expressed agreement, while 51% expressed disagreement. Additionally, 51% expressed agreement with the statement “It usually takes too long to drive where I need to go” and 38% expressed disagreement.
- ❖ Presented with a series of statements regarding traffic congestion on each assessed east-west corridor, the majority of respondents expressed agreement that traffic on South Airport, Bayshore and 8<sup>th</sup> Street is congested (92%, 80%, and 77%, respectively). Approximately 33% agreed traffic on Hammond-Keystone-Beitner is congested; 24% of respondents indicated they had no opinion regarding congestion on this corridor.
- ❖ Regarding most congested intersection, respondents most frequently cited Division and Grandview Parkway (16%) and Division and 14<sup>th</sup> (15%). Additional frequently cited intersections include South Airport and US-31/Division (13%) and South Airport and Cass (12%). Approximately 22% of respondents cited an intersection other than those listed.
- ❖ Regarding likeliness of using each of three modes of transportation in the Traverse City Urbanized Area within the next 20 years, 94% of respondents reported they are Very Likely to use Vehicular transportation, while 31% indicated they are Very or Somewhat Likely to use Public Bus Transportation and 33% indicated they are Very or Somewhat Likely to use Non-Motorized transportation, including Bicycle and Pedestrian.
- ❖ Significant variation by township of residence is noted where relevant.

# East/West Transportation Corridor

## 2016 Perception Research

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### I. Research Objective

To assess commuter perception of real and potential east/west mobility assets in Grand Traverse County, MI- focusing on the Traverse City Urbanized Area. The research results will assist the Traverse Transportation Coordinating Initiative (TTCI) Board and other transportation entities in prioritizing corridors to study, analyze, and ultimately, in the preparation of strategies and alternatives based on effectiveness, efficiency, funding, value, community desire, and other agency goals. This research secured quantitative information from residents as stakeholders in this initiative, providing information to aid the Board in evaluation of transportation improvement strategies.

### II. Research Methodology

A telephone survey was conducted with a random sample of residents, 18 years of age and over, in the Traverse City Urbanized Area, which includes the City of Traverse City, along with Elmwood, Garfield, East Bay, Blair, Acme, and Peninsula townships. Based upon an approximate Traverse City Urbanized Area 18 and over population of 63,000, a total of 387 completed surveys is required for a 95% confidence level, +/- 5% margin of error; 413 surveys were completed for an approximate +/-4.81% margin of error for the area as a whole. The random sample was drawn proportionate to the population distribution of the area, with approximate proportions as outlined below. No other quotas established. Based upon data<sup>1</sup> indicating Michigan is 47.8% cell only, a 40/60 ratio of wireless to landline sample was selected.

Garfield Township 25%  
City of Traverse City 23%  
East Bay Township 17%  
Blair Township 13%  
Peninsula Township 8%  
Acme Township 7%  
Elmwood Township 7%

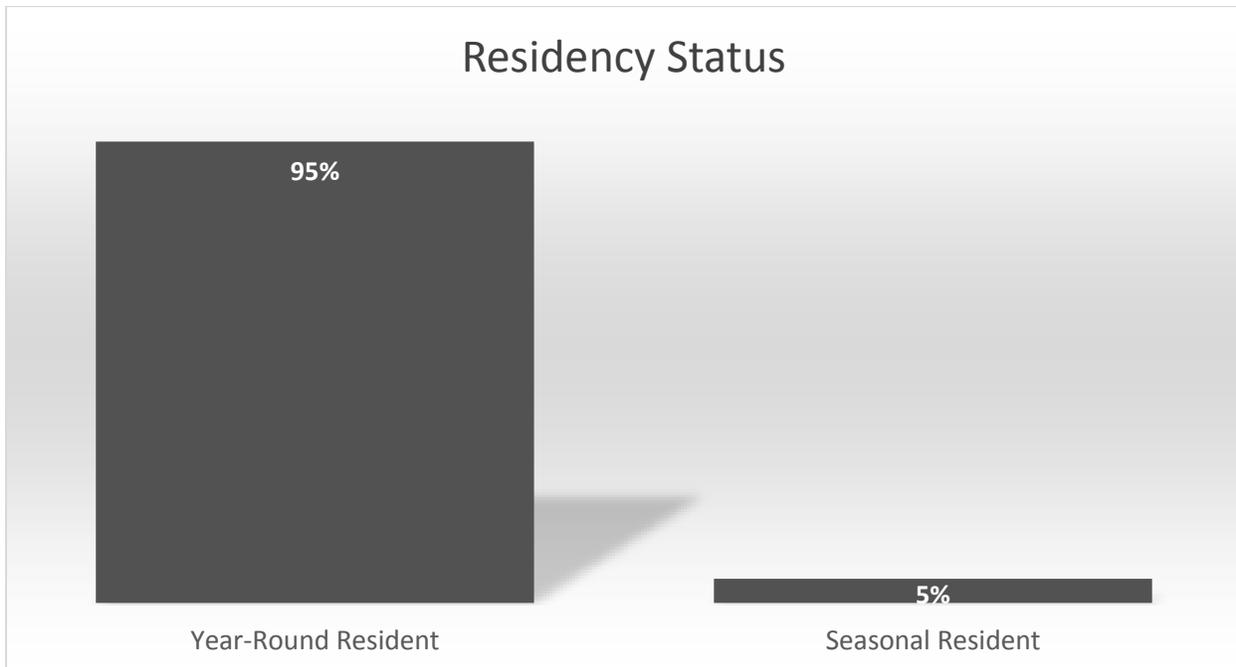
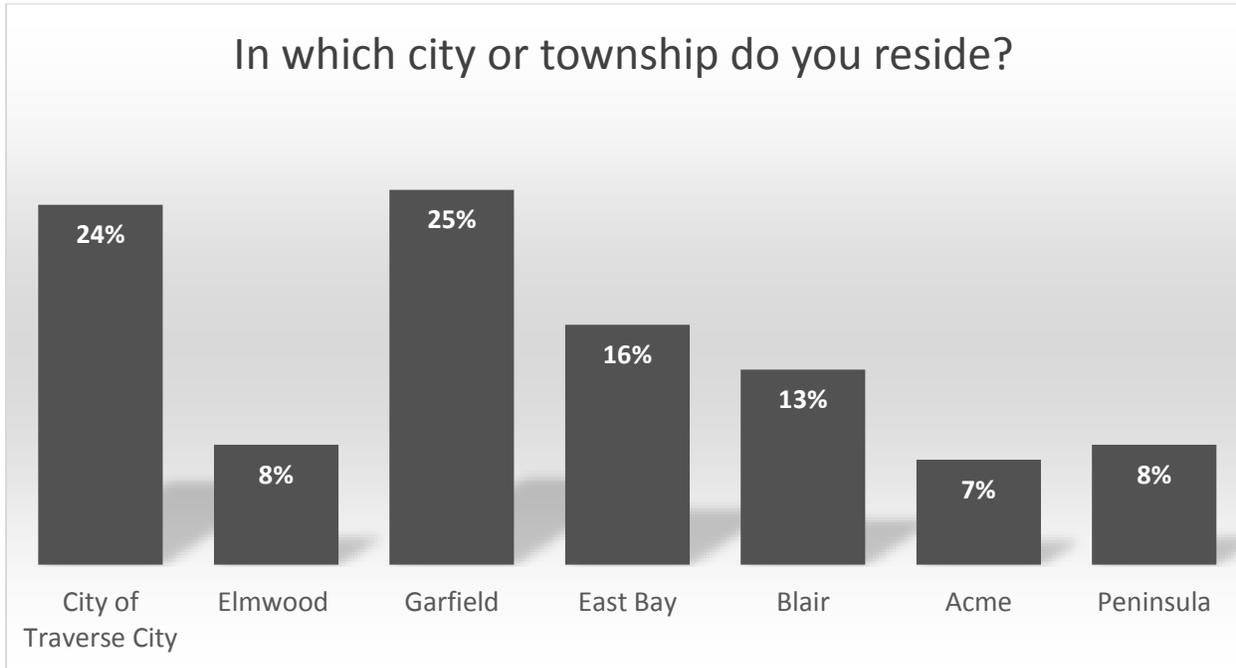
Survey development was a joint effort on the part of the TTCI Survey Advisory Committee and CS Research & Consulting, with survey administration, project management, data analysis and final report by CS Research & Consulting. Analyses include frequencies and cross-tabulations to further explore the data. Cross-tabulations were conducted on all variables by city/township; chi-square analyses, which compare obtained frequencies with expected frequencies, identify significant findings. This report includes survey results in the form of frequency tables and charts, with significant cross-tabulation<sup>2</sup> findings noted where relevant.

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<sup>1</sup> Feb 2016 National Health Interview Survey generated data

<sup>2</sup> It should be noted that references to “more likely” and “less likely” reference *statistical* likelihood in terms of what would be expected, not direct comparisons with other respondent groups.

### III. Research Results



The vast majority of respondents (95%) reported they are a Year-Round Resident, residing in the area 10 – 12 months out of the year.

## When traveling east-west by car in the Traverse City Urbanized Area, are you most likely to travel along:

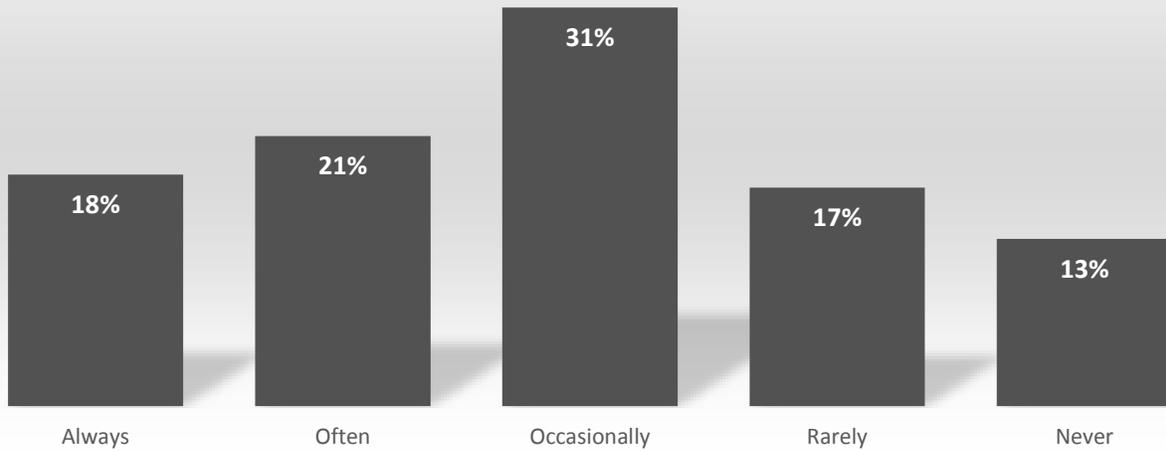


The single largest group of respondents (35%) indicated they most frequently travel along the Bayshore Corridor, while an equal number (22%) cited 8<sup>th</sup> Street and South Airport and 19% cited Hammond/Keystone/Beitner. A total of 31 respondents indicated they did not know which corridor they traveled most frequently.

Corridor cited significantly varied by township. Specifically:

- respondents indicating residency in Elmwood, Acme and Peninsula townships were significantly more likely to cite Bayshore Corridor
- respondents indicating residency in the City of Traverse City were significantly more likely to cite 8<sup>th</sup> Street
- respondents indicating residency in Garfield Township were significantly more likely to cite South Airport
- respondents indicating residency in East Bay and Blair townships were significantly more likely to cite Hammond/Keystone/Beitner

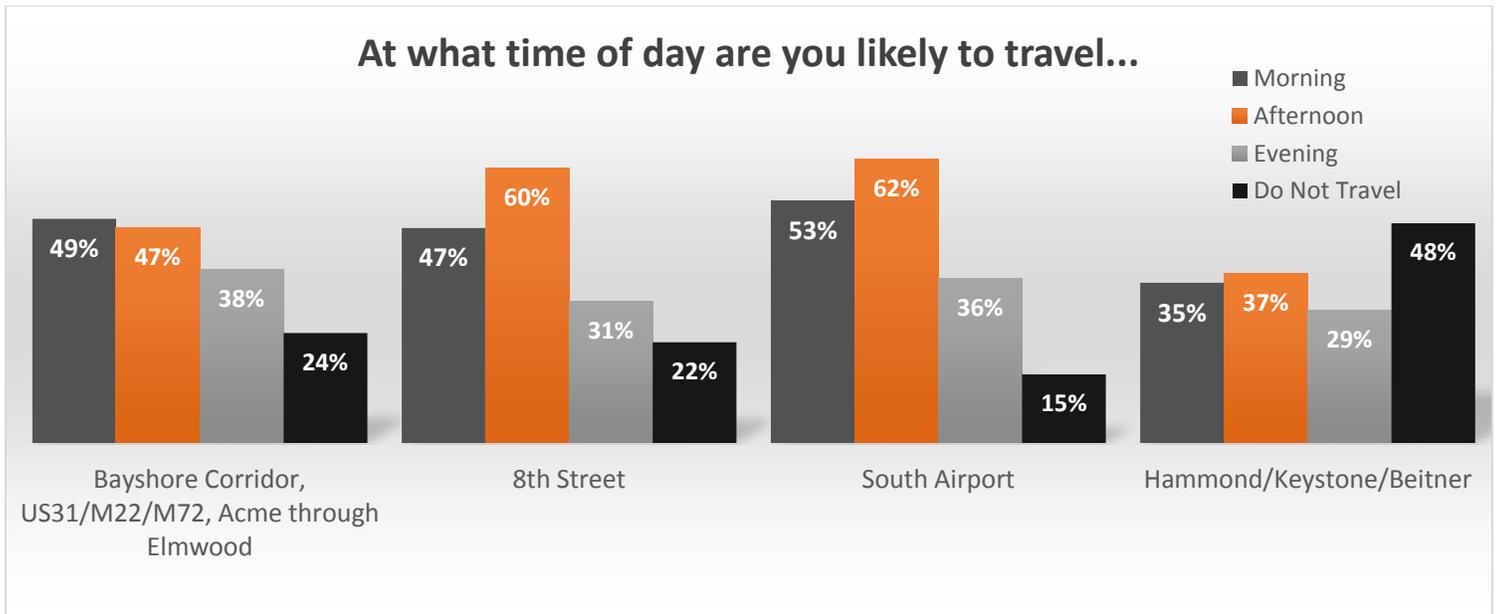
### How frequently do you vary your east/west route depending upon time of day?



The single largest group of respondents (31%) indicated they Occasionally vary their route depending upon time of day, while an additional 39% indicated they Always or Often vary their route and 30% indicated they Rarely or Never vary their route depending on time of day.

Respondents were next asked to indicate at what time of day they are likely to travel each of four east-west corridors: morning, afternoon, or evening. Approximately half reported they are likely to travel Bayshore, 8<sup>th</sup> Street or South Airport in the morning, with highest reported afternoon usage of 8<sup>th</sup> and South Airport, at 60% and 62%, respectively.

Percent of respondents reporting they are likely to travel a corridor in the evening ranged from 29% (Hammond/Keystone/Beitner) to 38% (Bayshore). Approximately 48% reported they do not travel Hammond/Keystone/Beitner; additionally 24%, 22%, and 15% indicated they do not travel Bayshore, 8<sup>th</sup> and South Airport, respectively.



Likelihood of traveling a corridor at a designated time of day significantly varied by township. Specifically:

*Bayshore-Morning* –more likely traveled by residents of City of Traverse City, Elmwood, Acme, and Peninsula

*Bayshore-Afternoon*–more likely traveled by residents of City of Traverse City, Elmwood, Acme, and Peninsula

*Bayshore-Evening* –more likely traveled by residents of City of Traverse City, Elmwood, and Peninsula

*8th Street-Afternoon*–more likely traveled by residents of City of Traverse City, Garfield, and Peninsula

*8th Street-Evening* –more likely traveled by residents of City of Traverse City

*S. Airport-Morning* –more likely traveled by residents of Garfield, East Bay, Acme

*S. Airport -Afternoon*–more likely traveled by residents of Garfield, East Bay, Acme

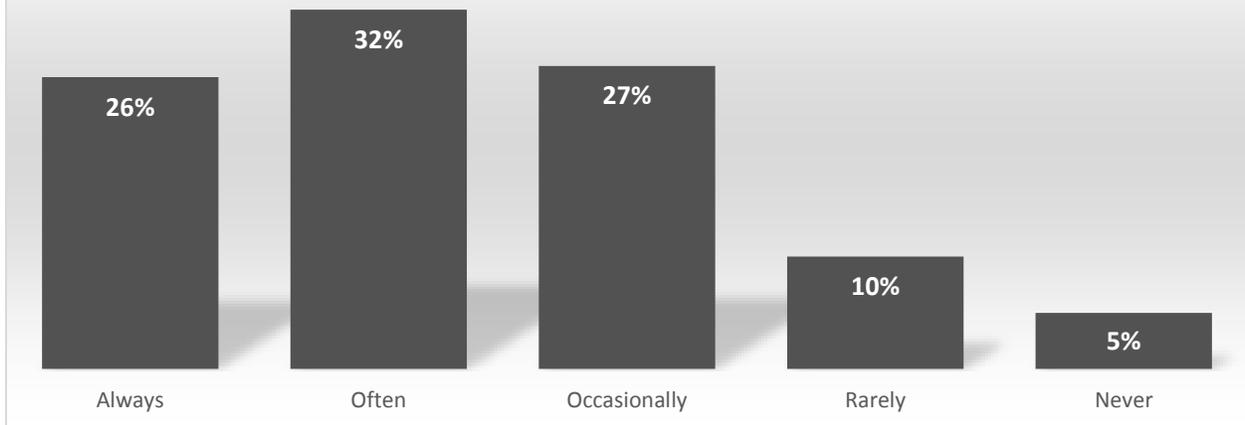
*S. Airport -Evening* –more likely traveled by residents of Garfield, East Bay

*Hammond/Keystone/Beitner -Morning* –more likely traveled by residents of East Bay, Blair, Acme

*Hammond/Keystone/Beitner -Afternoon*–more likely traveled by residents of Garfield, East Bay, Blair

*Hammond/Keystone/Beitner -Evening* –more likely traveled by residents of East Bay, Blair, Acme

## How frequently do you avoid local areas or attractions due to traffic congestion?



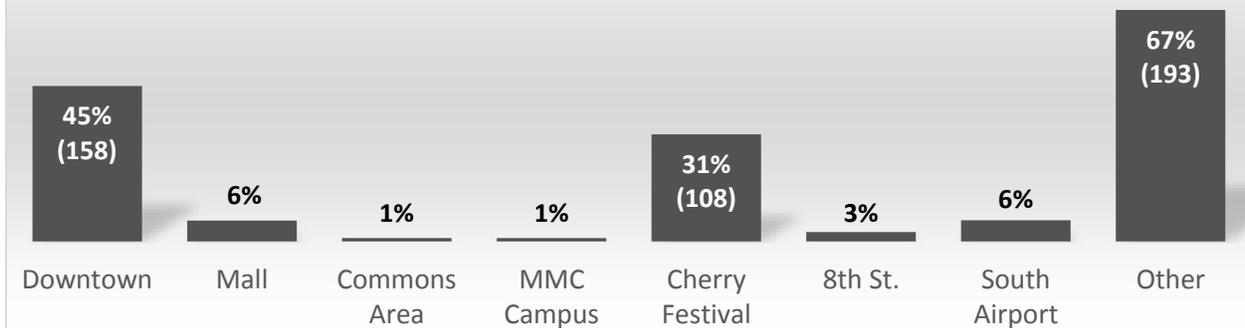
The single largest group of respondents (32%) indicated they Often avoid local areas/attractions due to traffic congestion, and approximately one-quarter reported they Always or Occasionally avoid (26% and 27%, respectively). A total of 15% indicated they Rarely or Never avoid local areas/attractions due to traffic congestion.

Respondents indicating they Always, Often or Occasionally avoid areas/attractions due to traffic congestion (approximately 85% of total respondents/count = 350) were asked what areas/attractions they avoid.

While 45% cited Downtown and 31% cited Cherry Festival, the majority cited an area or location other than those coded, with frequently cited areas/locations including Bayshore, 8<sup>th</sup> Street and South Airport Corridor intersections/sites. All “Other” areas/locations indicated are included in Section IV.

Though reported frequency with regard to avoiding local areas/attractions did *not* significantly vary by city/township, City of Traverse City residents were significantly more likely to indicate they avoid Cherry Festival due to traffic congestion.

## What areas or attractions do you avoid due to traffic congestion?



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<sup>3</sup> Coded responses not read to respondents – item presented in an open ended manner

The majority of respondents (52%) indicated, in their opinion, an additional east-west crossing would have a High Impact on east-west travel congestion, while 24% felt it would have a Medium Impact, and 8% felt an additional crossing would have Low or No Impact. An additional 17% of respondents indicated they were uncertain as to the degree of impact an additional crossing would have on current east-west travel congestion.

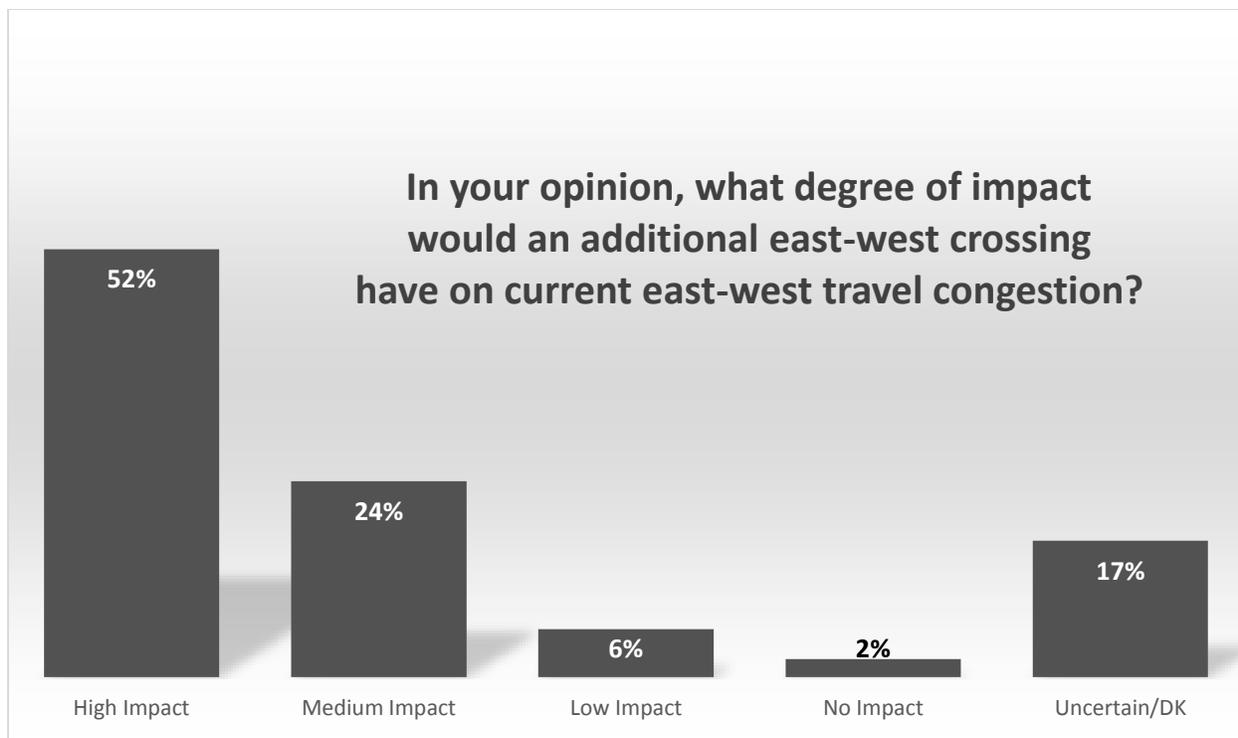
Identified degree of impact significantly varied by township. Specifically:

*High Impact* –more likely cited by residents of Elmwood, Garfield, East Bay, Acme

*Medium Impact* – more likely cited by residents of East Bay, Blair, Acme

*Low Impact* –more likely cited by residents of City of Traverse City

*Uncertain/DK*– more likely cited by residents of City of Traverse City, Peninsula



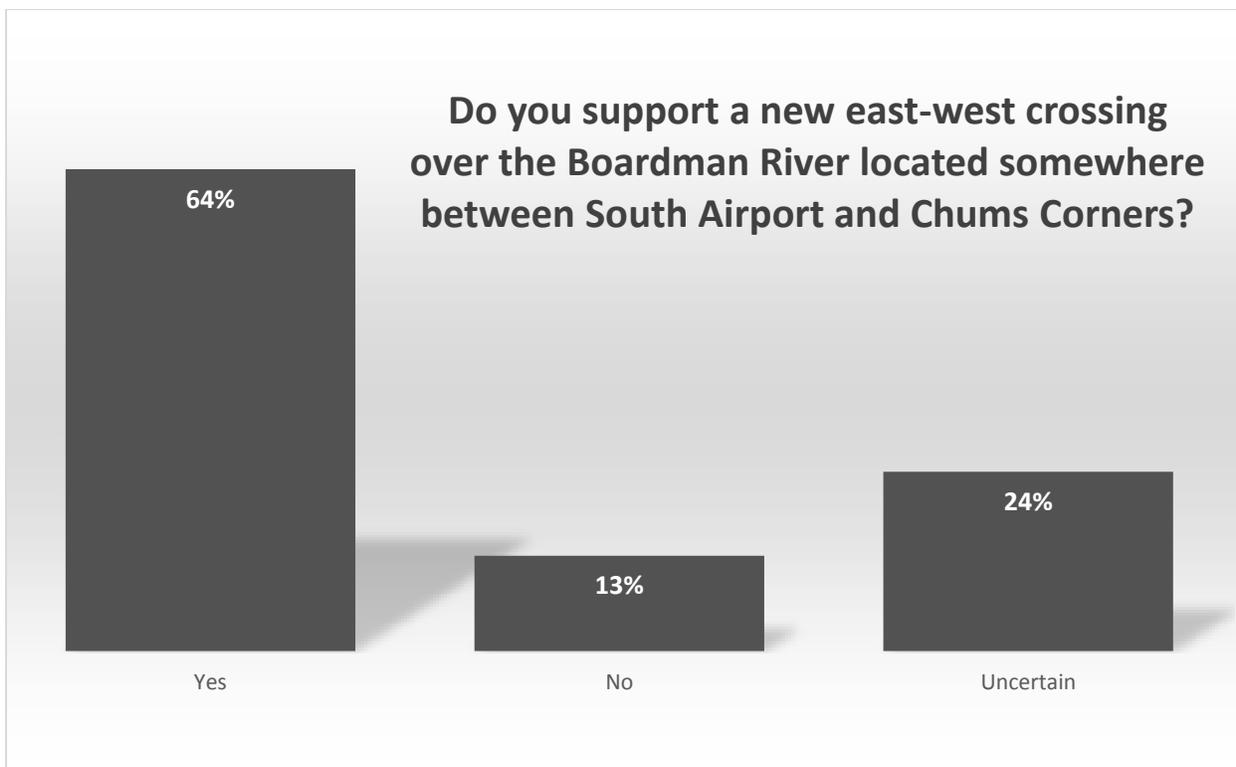
Regarding support for a new east-west crossing over the Boardman River, located somewhere between South Airport and Chums Corners, the majority of respondents (64%) indicated support, with 13% indicating they do not support and 24% Uncertain.

Reported support significantly varied by township. Specifically:

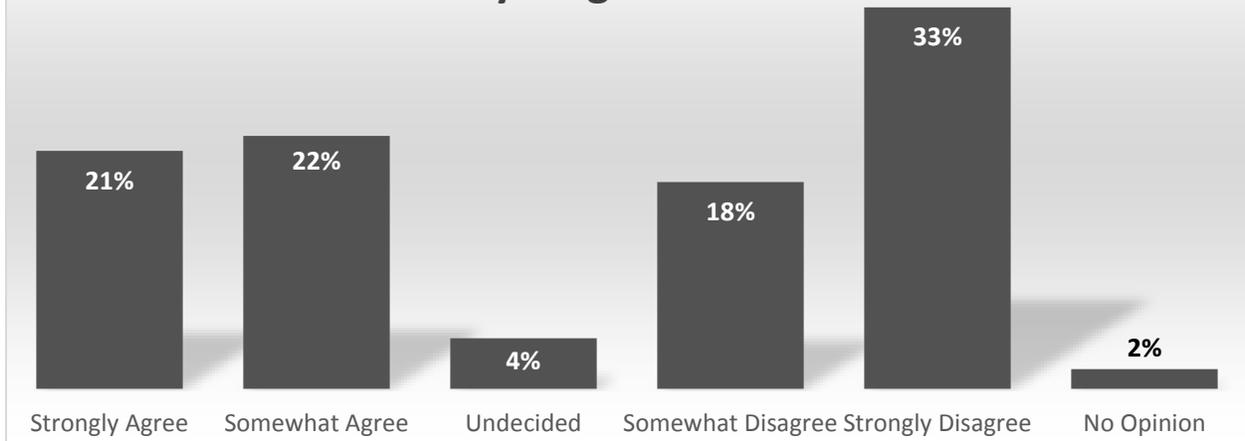
*Yes* - more likely reported by residents of East Bay, Blair, Acme

*No* - more likely reported by residents of City of Traverse City

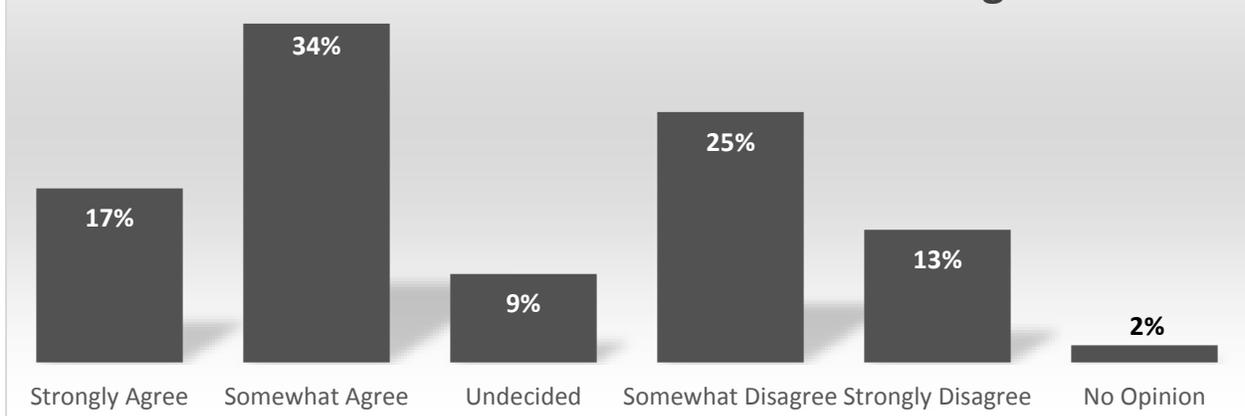
*Uncertain/DK* - more likely reported by residents of City of Traverse City, Elmwood, Garfield, Peninsula



### There is excessive (non-local) traffic in my neighborhood.

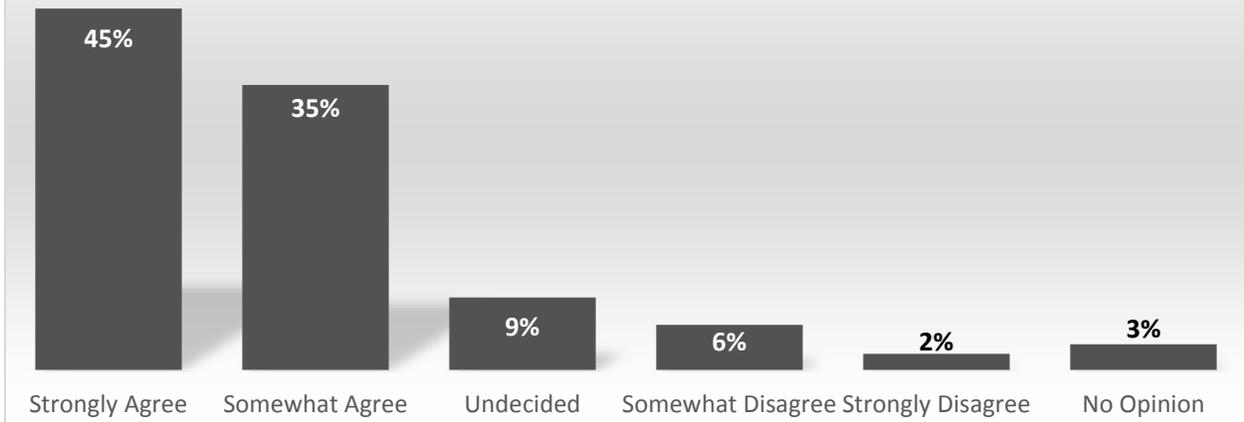


### It usually takes too long to drive where I need to go.

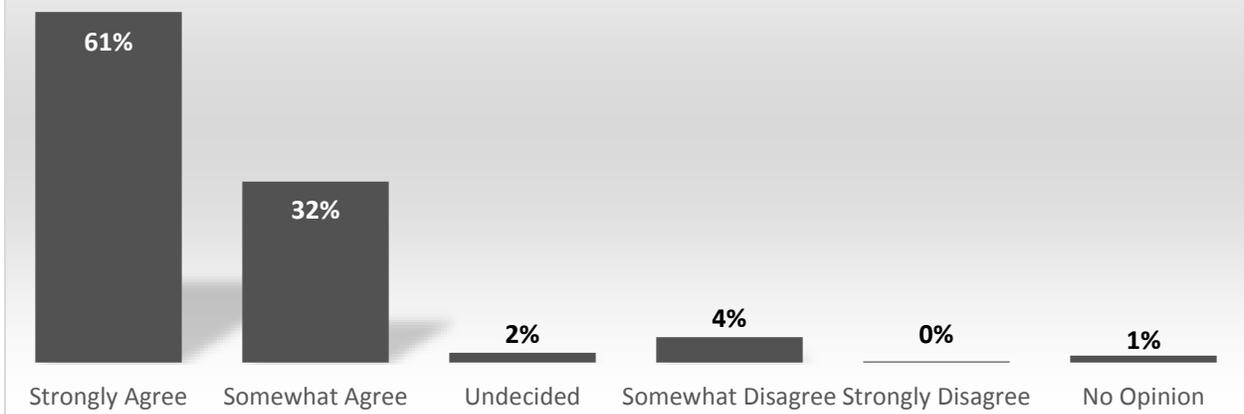


Regarding the statement “There is excessive (non-local) traffic in my neighborhood,” 43% of respondents expressed agreement, while 51% expressed disagreement. Additionally, 51% expressed agreement with the statement “It usually takes too long to drive where I need to go” and 38% expressed disagreement.

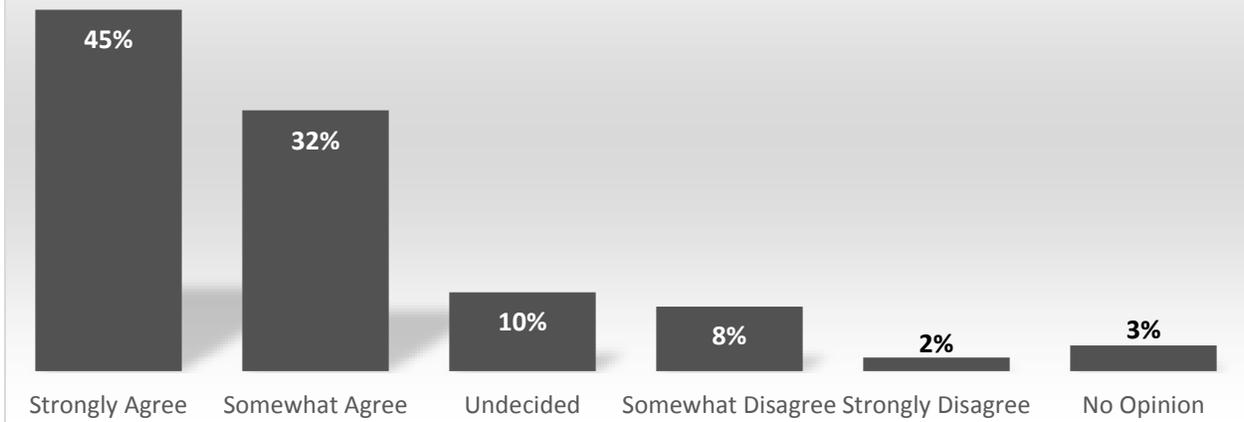
### Traffic on Bayshore corridor is congested.



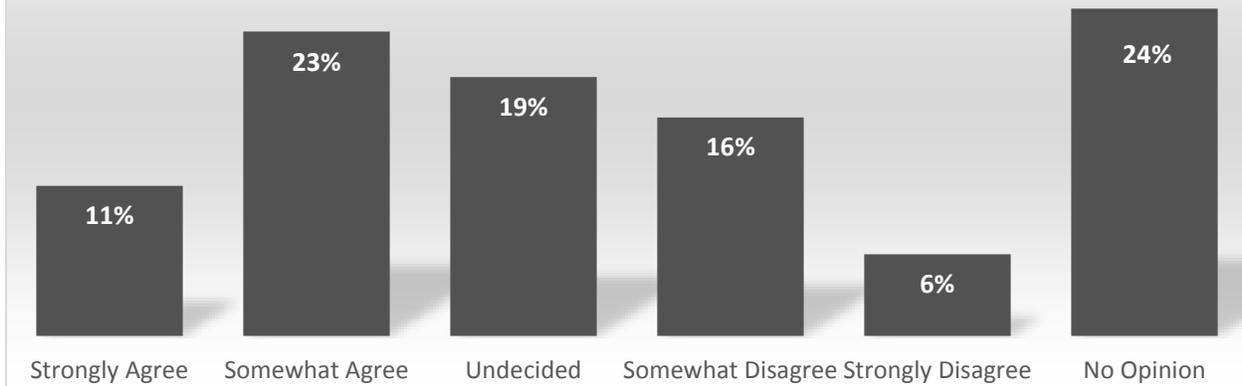
### Traffic on South Airport is congested.



### Traffic on 8th Street is congested.



## Traffic on Hammond-Keystone-Beitner is congested.



Presented with a series of statements regarding traffic congestion on each assessed east-west corridor, the majority of respondents expressed agreement that traffic on South Airport, Bayshore and 8<sup>th</sup> Street is congested (92%, 80%, and 77%, respectively). Approximately 33% agreed traffic on Hammond-Keystone-Beitner is congested; 24% of respondents indicated they had no opinion regarding congestion on this corridor.

Agreement with statement of congestion varied by township. Specifically:

*Traffic on Bayshore corridor is congested* –residents of Elmwood, East Bay, Blair, Acme more likely Strongly Agree

*Traffic on South Airport is congested* –residents of Garfield, East Bay, Blair more likely Strongly Agree

*Traffic on Hammond/Keystone/Beitner is congested* –residents of East Bay, Blair more likely Strongly Agree; residents of City of Traverse City, Garfield, Peninsula more likely to indicate No Opinion

**In your opinion, which intersection in the Traverse City area is most congested? Please note that congestion refers to traffic delays, etc., and not necessarily the amount of traffic at the intersection.<sup>4</sup>**

	Count	Percent
South Airport and Garfield	18	4.5%
South Airport and Cass	46	11.6%
South Airport and US-31/Division	50	12.6%
Division and 14 <sup>th</sup> Street	60	15.2%
Division and Front Street	27	6.8%
Division and Grandview Parkway	62	15.7%
Front and Garfield	15	3.8%
Chums Corners	12	3.0%
US-31, M-22 and M-72 (near Tom's West Bay)	16	4.0%
Hammond and Garfield	1	.3%
Hammond and Beitner/Keystone	1	.3%
Other, specify:	88	22.2%

Regarding most congested intersection, respondents most frequently cited Division and Grandview Parkway (16%) and Division and 14<sup>th</sup> (15%). Additional frequently cited intersections include South Airport and US-31/Division (13%) and South Airport and Cass (12%). Approximately 22% of respondents cited an intersection other than those listed - all "Other" intersections indicated are included in Section IV.

<sup>4</sup> Coded responses not read to respondents – item presented in an open ended manner

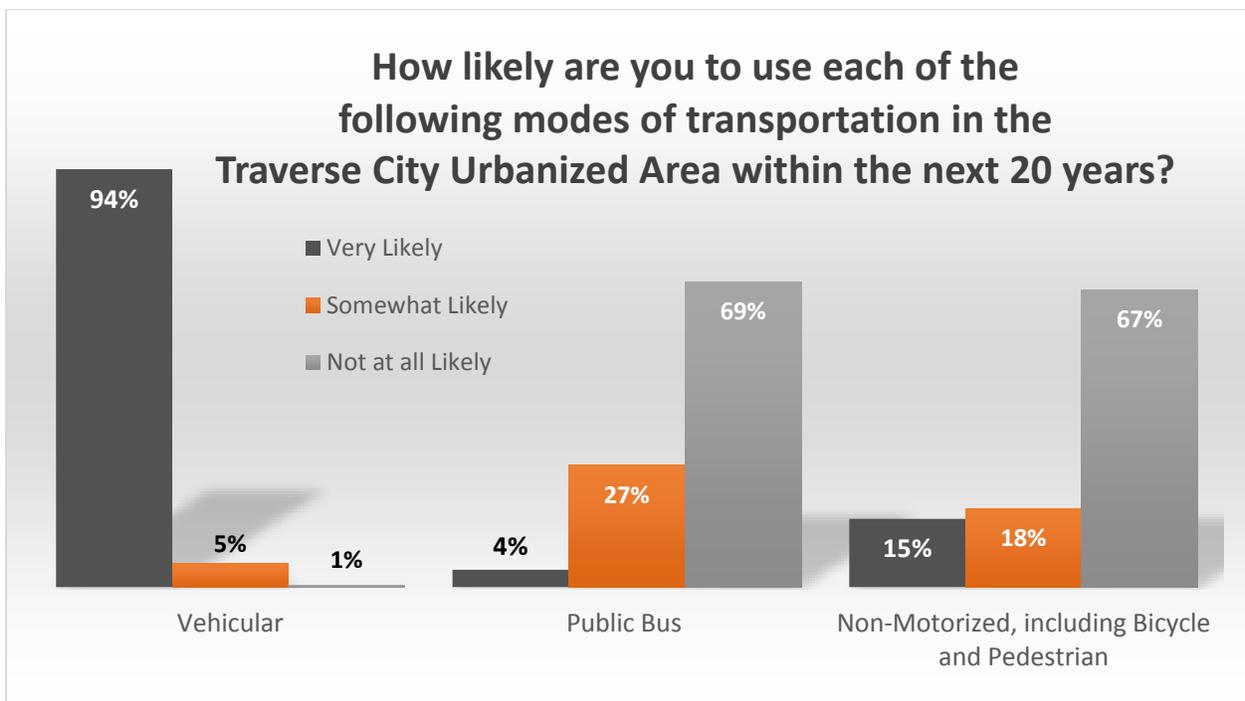
Regarding likelihood of using each of three modes of transportation in the Traverse City Urbanized Area within the next 20 years, 94% of respondents reported they are Very Likely to use Vehicular transportation, while 31% indicated they are Very or Somewhat Likely to use Public Bus Transportation and 33% indicated they are Very or Somewhat Likely to use Non-Motorized transportation, including Bicycle and Pedestrian. Approximately 3% reported a likelihood of using some “Other” mode of transportation, including train/light rail/monorail. All “Other” modes indicated are included in Section IV.

Reported likelihood of using *Non-Motorized Transportation* varied significantly by township. Specifically:

*Very Likely* - more likely reported by residents of City of Traverse City, Elmwood

*Somewhat Likely* - more likely reported by residents of City of Traverse City, East Bay

*Not at all Likely* - more likely reported by residents of Garfield, East Bay, Blair, Acme, Peninsula



## IV. 'Other' Responses

### What areas or attractions do you avoid due to congestion? Other:

#### Bayshore

Bayshore (17)  
Bay area. I try to stay away from all of these routes during rush hours  
Bay Shore & Division  
Bayshore all summer long, film festival  
Bayshore & 8th St during rush hours  
Bayshore and Front St  
Bayshore and Hammond

Bayshore & M22 in afternoon.  
Bayshore at corner of US 31, M 22 and M-72 during rush hour  
Bayshore Corridor  
Bayshore during Cherry Festival  
Bayshore in the summer  
Beach Areas

#### Festivals

Film Festival (10)  
All Festivals (7)  
Film Festival, Airport & 37 and US 31 (2)  
Beer Festival

Festivals and Summer time  
Film Festival and 4-6 on 8th Street  
Film Festival, Comedy Festival, Beer Festival, 8th St. since changed to 2 lanes

#### South Airport

S. Airport & 8th St. (2)  
S. Airport & US 31  
S Airport & Keystone  
S Airport, Division, US31, and Beitner/Keystone  
S. Airport & Bayshore in the summer  
S. Airport & Division  
S. Airport & Division; Silver Lake Rd. & Division  
S. Airport & Logan's Landing  
S. Airport & US 37  
S. Airport and Bayshore in summer  
S. Airport and Cass  
S. Airport and Festivals  
S. Airport and Garfield  
S. Airport and Keystone  
S. Airport and US 31  
S. Airport and US 31 after work  
S. Airport around 3:30  
S. Airport around 5pm  
S. Airport at rush hour

S. Airport between Barlow-Cass  
S. Airport by Airport  
S. Airport by Logan's Landing  
S. Airport during rush hours  
S. Airport from 2:30 - 6:00 p.m.  
S. Airport from LaFranier to 37 / All of Garfield, Hammond & 3 Mile from 2 -5  
S. Airport in late pm  
S. Airport in the summer  
S. Airport weekdays between 5 - 7 p.m.  
S. Airport, all in the afternoon  
S. Airport, Chums Corners, Front Street  
S. Airport, Keystone, and the Parkway are all ridiculous from 5 - 6:30 p.m.  
S. Airport, Munson, Division, M37S  
South Airport & Front  
South Airport and Festivals  
South Airport during work hours/Bayshore in the summer  
South Airport, Keystone

14th & Division (3)  
14th & 8th Street  
14<sup>th</sup> & Bayshore at certain times

14th St. & Division, 3 p.m. or later  
14th St in PM

8th St (disaster) / S. Airport from 3-5 p.m.(risking your life) / Film Festival  
8th St & Front St  
8th St & S Airport between Cass & US31  
8th St and S. Airport during rush hour

Division (3)  
Division & Parkway

Front Street (2)  
Front & Division (2)  
Front & Bayshore

Garfield  
Garfield & Carver  
Garfield & Bayshore

Keystone (2)  
Keystone to Chums Corner  
Keystone during soccer season, 8th St. & Bayshore in summer

US 31 (7)  
US 31 & 8th St  
US 31 & 131  
US31 from 14th St to South Airport

Active areas  
All intersections, especially 8th Street, between 5 - 6 p.m.  
Any place in town  
Any traffic congested areas.  
Anything around 8th St.  
Anything past Union St.  
Cass & S. Airport /Friday Night live  
Cass Street  
Chums Corners and S Airport and US 31  
Congested Areas  
Depends on time of day  
Downtown and Acme  
East Side  
Fairgrounds & US31  
Farmer's Market, because there is no parking (2)  
Grandview Parkway  
Grandview, Munson, & Division  
Hammond between 3:30 - 5:30  
I avoid the downtown area all together in the summer  
I avoid 3 Mile and Four Mile off 31 between 3 and 5 p.m.  
I drive the back roads during summer

8th St. during Cherry Festival; parade, S. Airport mid-day  
8th St., 14th St. and Parkway  
8th Street, Bayshore  
8th Street, Bayshore and Division

Division & Rush Hour  
Division & West Front Street

Front & Garfield  
Front Street, U.S. 31

Garfield & Front Street  
Garfield during rush hour

Keystone, 31 and 37, and Bayshore Drive.  
Keystone/Beitner and 14th St.

I seek the least congested route  
I time my travel  
I try to avoid all major crossings during our mini rush hour between 5 - 6 p.m.  
M22 in Grelickville, construction areas  
M22 toward Tom's  
M72  
Munson & Meijer  
Munson Avenue  
NMC Entrance  
Other events in TC  
Other festivals and 8th St. in summer  
Parking  
Rush hour traffic (3)  
Rush hours on east/west routes  
Summer time downtown  
Summertime traffic  
Traverse City  
W. Front Street  
We avoid a.m. traffic and 5 - 6 p.m. traffic in T.C.  
We time our trips  
West Side  
When tourists are here in the summer  
Where ever parking is an issue

**In your opinion, which intersection in the Traverse City area is most congested? Please note that congestion refers to traffic delays, etc., and not necessarily the amount of traffic at the intersection. (DO NOT READ) Other:**

Three Mile & US-31 (10)  
8th Street & Garfield (6)  
8th Street & Woodmere (6)  
8th Street & Boardman (4)  
8th Street/All/Any intersection  
(3)  
Four Mile & US-31 (3)  
S Airport & LaFranier (3)  
Three Mile & Hammond (3)  
8th Street & Cass (2)  
Division & 11th Street (2)  
Garfield & Bayshore (2)  
S Airport & Keystone (2)  
S. Airport & LaFranier (2)  
US 31 & M37 (2)  
8th between Airport & Union  
8th from Union to Garfield  
8th St. & Rose  
Any intersection with a stop  
light.  
Any number of them.  
Anywhere along Front Street  
Cass & Front  
Cass & Keystone  
E on 8th Street at Woodmere  
because of the railroad track  
Front & Madison

Front & Munson  
Front Street & US 31  
Garfield & Munson  
Grandview Parkway & Front Street  
Hoch Road & Keystone  
Keystone & Cass  
Munson at the corner, by the Dennon  
Not sure, I don't usually travel  
during busy times of the day.  
Peninsula Dr. & Front  
S. Airport & Barlow  
S. Airport & Veterans Drive  
S. Airport by Walmart  
S. Airport from Barlow to Mall  
S. Airport Intersection/All  
Somewhere on Bayshore, no  
one special intersection  
Too many to choose  
Too many to pick just one, depends on time of  
day  
US 31 & 8th Street  
US 31 & Holiday Road  
US 31 between 3 Mile & 4 Mile  
US 31 by the hospital  
US31 & 8th Street  
Where 31 & Front St. meet at Holiday Inn

**How likely are you to use each of the following modes of transportation in the Traverse City Urbanized Area within the next 20 years? Other:**

Train (3)  
Hover Vehicle  
Light Rail from Grawn  
Monorail  
Other Public Transport

Passenger Train  
Snowmobile  
Taxi Cab  
Train to Grand Rapids

## V. Additional Comments

- 8th Street and South Airport are really bad. There is no good way to get across town.
- 8th Street is bad. The lanes are not marked well; can't follow how to go with the bike lane. I don't care to go down there at all.
- A bypass over the Boardman would really improve congestion. I have lived here 15 years and have found the traffic becoming increasingly congested for a town this size.
- A few years ago the people voted this down. Now we are nothing but a big traffic jam.
- A Hammond-Hartman crossing would eliminate 2/3 of South Airport & 8th Street traffic.
- A left turn signal on M37 and Vance Road could save many accidents.
- A new road across the Boardman is a good idea.
- Alleviate traffic on S. Airport by making Beitner a 4-lane highway from Chums Corner to Hammond or S. Airport.
- An additional corridor would be a big help for congestion and service a great many trucks.
- An additional crossing is well overdue and well worth the tax increase!
- An additional east-west road would be nice.
- Another bridge would be great! Make Hammond to Beitner to Chums Corners four lanes. Add a light on River Road and Keytone-Beitner intersection, even a sensor one.
- Another route would be awesome!
- As soon as a bypass is put up, it starts off fine and then they start building up businesses in the area and it becomes as bad as other places with one light after the other. If you are going to put a bypass of any sort, make sure it is not open to big development. The way they made 8th Street is very dangerous for bikers. I am so glad for the TART trail, as I am a biker.
- As Traverse City continues to grow, so will the traffic congestion.
- At the corner of Union and the Parkway needs a left hand turn light. In the summer, it is almost impossible to turn onto Union Street when going west.
- Be patient.
- Because South Airport is too congested, we need another East/West Corridor.
- Because we are retired, we do not have to travel during the congested times. I only find congestion at certain times of the day and during the summer.
- Better visibility for pedestrian and bicycle traffic at intersections. We need continuous sidewalks. There are several area neighborhoods that do not have continued sidewalks, due to owners not maintaining. I think it would be unfortunate to ruin the fabric of our neighborhoods to cut off 15 seconds of travel time by putting in other cross ways or lanes in neighborhoods. You can't have your cake and eat it too. There should be a left turn lane into the hospital for the Emergency Room off Division.

- Build the bridge.
- Congestion in our area is mostly just at rush hour and in the summer.
- Crossing Division from 7th Street going east is confusing. Eighth Street is a mess! The city needs to pay more attention to year-round residents. Congestion is horrible and the roads have not kept up. Move the Cherry Festival to the Civic Center or fair grounds.
- Eighth Street is a massive issue. It needs to be 4 or 5 lanes.
- Eighth Street is terrible. Downtown is kind of a mess.
- Eighth Street is worse now than before the realignment, the lines and the bike lane. It is always backed up.
- Eighth Street needs to be fixed.
- Eighth Street should go back to 4 lanes; no bike lanes unless bikers want to pay license fees.
- Five Mile needs to be redone. Need an East West corridor connection to 5 Mile. The traffic situation is my biggest complaint of Traverse City.
- Fix 8th Street back to four lanes and eliminate bike lanes to allow traffic to flow smoothly.
- Fix 8th Street. Return it to four lanes without the bike lane. Whoever proposed that is an idiot. I have never even seen a biker on that lane and I travel 8th a lot.
- Get rid of the light at Cass and Keystone.
- Get rid of the stupid bike lane on 8th Street. There are going to be deaths there. I bike but will not use that lane. I use the sidewalk.
- Go for the bypass! Three Mile Road should be widened.
- Good luck!
- Gridlock is increasing so we need some relief.
- Hammond and Hartman need to be connected.
- Hammond and the bridge over the river flats would be the best thing this town could do.
- Having lived 28 years in Grand Rapids before moving here 13 years ago, I find that the traffic has gotten worse but it is certainly manageable.
- I absolutely love the fact that they have reduced the lanes on 8th Street. Now, if they could just enforce the speed limit.
- I agreed to do this survey so that I could voice my discontent with what they did to Eighth Street. Eighth Street used to be a nice 4 lane easy moving highway and closing it off, putting bikes out in that amount of traffic, round a bouts etc., is just crazy. Someone with a personal, self-serving agenda has done something to make that a terrible route. It is a disaster.
- I am concerned about traffic congestion caused by new development on Long Lake Rd.
- I am definitely concerned about them building a roundabout at 14th and Division.
- I am definitely for roundabouts. All intersections should be concrete.

- I am glad it is being looked into.
- I am glad someone is looking at it.
- I am interested in the new east-west crossing mentioned in the survey. I really think that would take care of a lot of the trucks coming into the city.
- I am not fond of the bike lane on 8th Street. It is very confusing and dangerous; it gives me nightmares.
- I am not fond of those roundabouts. No roundabouts!!
- I am not happy with what they did with Boardman, etc. They need to improve the east, west travel they have, not increase.
- I am very happy with the way they configured 8th Street. I know there is some contention about it, but I am happy with it.
- I approve another crossing over Boardman River, but not if it extends to the VASA Trail.
- I avoid Cass and S. Airport like the plague when I can. The whole 8th street thing is a mess, but we have learned to live with it.
- I believe that there should be another route towards the soccer fields, south to 31.
- I believe that they should do something where Hammond goes out to the Boardman.
- I believe we need a new bypass but I will feel sorry for businesses.
- I can't believe that traffic is still moving one car at a time on Cass Road!
- I can't wait for winter and the reduction in traffic.
- I didn't like 8th Street but it flows much better than I thought it would.
- I disagree with where they built the bridge. It should be on the end of the Hammond Hartman Rd. not some side street.
- I do know that it has made it much easier for me to get where I need to go since they opened the Keystone Beitner pathway.
- I do like the striping on 8th Street with the bicycle lane. I think it is safer.
- I don't know how much more we can widen roads.
- I don't know where all these people are coming from!
- I don't support any more roads going through Traverse City, creating urban sprawl.
- I don't think traffic is that bad.
- I don't think we should have roundabouts. We do not have the amount of land needed to make a proper roundabout.
- I don't understand why they haven't resurfaced Potter Road.
- I don't think planning will solve the problem. We need to emulate Germany with Public Transportation.
- I feel like it's getting worse all the time. Does anybody work?

- I feel we need a traffic light at Secor/Silver Lake Rd; there is an accident there about every two months. Need a left turn light at US 31 & Secor; very difficult to turn there.
- I find there is a lot of traffic in the Traverse City Area.
- I get tired of all these bike lanes and I don't see that many bicycles out. Not being used as compared to cars.
- I hate the way they configured 8th Street, it was asinine. Also, they need to improve the timing of the traffic lights.
- I have all these medical appointments in congested areas.
- I have been of the opinion for years that they should have put in a bypass on Beitner to help alleviate the summer traffic.
- I have lived here for 52 years and it is what I am used to.
- I have lived here since 1983. Soon after there was talk of a bypass. It needs to happen.
- I have noticed that if you hit one light, you're likely to get hit by all the lights (In general, not at just one intersection). They need to coordinate the lights so if you are following the speed limit, you don't get caught at all the lights.
- I have stopped going downtown to the Farmer's Market on Saturdays. There is never enough parking and I am getting too old to park six blocks away and carry things back to my car.
- I heard a rumor about a roundabout on Division/Grandview Parkway. That is a terrible idea.
- I hope they can resolve the problems.
- I keep thinking that we are putting a lot of emphasis on the bike flow instead of the vehicles. That 8th Street path is awful. It is very confusing and I am always afraid of hitting someone. I rarely see a biker on that path. I think the planners are concentrating too much on "green" and bikers as opposed to the real traffic issues for motorists here in Traverse City. They have been talking about doing something for years. It's time they did something. I never do surveys, but I did this one because of the subject.
- I know the city is doing everything they can to make traveling safe. The key to getting around is timing.
- I like 8th Street the way it is now with the turn lane.
- I like the 1 lane rather than 2 on 8th Street.
- I like the current 8th Street lane configuration.
- I like the idea of the configuration that currently exists on 8th Street. I used to get botched in traffic when it was the four lanes. It is much smoother now. I have recently started using BATA and it is very easy and I am very supportive of it.
- I live on Lake Ridge Dr. and I would be very disappointed if they were to try to put a new corridor thru our area. We built there for the quiet neighborhood and would not want traffic routed thru.
- I moved here from Southern Michigan where there is real traffic congestion. So, I am quite happy with the amount of or lack of traffic congestion here.

- I never see bikes on the bike path on 8th Street. It's a nice idea, but doesn't work. I would like to hear updates periodically about the bypass. To bring Costco in before we even have a bypass is ridiculous. That is going to turn S. Airport into a parking lot.
- I really have had some strong concerns about the turn lanes being narrower for trucks to turn onto Three and Four Mile off 31 (lived in Holiday Hills for 30 years). There were some deaths this past summer at those intersections. There are major traffic problems at those corners. People coming into town to work are trying to go too fast thru there trying to get to work. All summer long you have tourists that are going too slow and both creating so many accidents in that area. The only solution I can think of is to lower the speed limit thru there; particularly Three and Four Mile, and enforce it strictly. Many people have been killed, even a friend of mine.
- I stay off the roads during the busy hours.
- I support the additional corridor 100%!
- I support the Hammond-Hartman connection. The new bridge on Cass Street is useless.
- I think East West traffic within the city is pretty good. I think the validity of the survey should specify various times of the year; our congestion is not all year long. And, the survey is asking about automobile traffic; it is not asking about pedestrian traffic. As a pedestrian, I walk and bike a lot, I think Bay shore is too fast but fine for the automobiles. There are not enough access points to cross safely and vehicles don't stop. I like the re striping of 8th St. I think if they put stupid roundabouts, they should forget it. They cause nothing but chaos.
- I think that better timing of traffic lights would greatly improve the traffic flow on the streets.
- I think Hammond/Keystone area is a pretty good answer for the additional east-west crossing.
- I think the Hammond - Hartman proposal would be a real advantage relieving South Airport.
- I think the light system is great! I like the green arrows! Everybody seems to go the speed limit.
- I think the traffic congestion continues to worsen. They have been talking about doing something for years and haven't done anything. We really need it to be taken care of.
- I think there are environmentally responsible options for a Hammond Hartman connection that would benefit both the residents and visitors of Traverse City and I hope you explore those options. I have been in favor for another east west corridor since they first started talking about it 30 years ago.
- I think they do need the bridge over the Boardman; it would help the traffic congestion. I don't know why they have fought that for so long. The turtle will find a place to live.
- I think they need to eliminate the bike lanes in the congested areas, especially 8th Street and Bayshore. It is highly unnecessary.
- I think they should have done something long ago.
- I think traffic works pretty well considering the number of people that live here.

- I think we have to do something; another East West route would be great.
- I think we need a bypass.
- I think what they did with 8th Street would be alright except they are talking about adding all these three and four story apartment buildings along there and that would be a disaster. They need to restrict the number of apartments they allow along there. The cross over bicycle lanes are too dangerous on 8th Street as well.
- I understand that it needs to be fixed, but I don't think that going outside the city will help.
- I usually walk where I need to go. When driving, I avoid S. Airport especially in the afternoon. You are taking your life in your hands traveling that route.
- I was shocked at the new bridge decision. I was one of the opponents of Hartman-Hammond but it is frustrating that it won't happen. I don't want anything to effect the river.
- I wish people would use turn signals.
- I wish they could widen US 31 around Holiday Inn.
- I wish they would fix the roads on 8th Street. They are so messed up, I don't travel that route any more. I have a problem in my neighborhood with the Munson Hospital employees parking on Madison & Monroe instead of in their parking lot. Also, don't understand why Munson Hospital gets preferential treatment and is allowed to build 12 stories high and may be allowed to close off 6th Street because of all the building they have going on there. They have all kinds of land behind them they could have used.
- I wish they would get 8th Street done and get it back to the way it used to be. I wish they would widen 14th for all the traffic on that street. Also do something with Division St. around the Commons. It needs a left turn lane. They need more parking downtown. We go down there to shop or eat and end up leaving because there is no place to park.
- I wish they would not close 6th Street near the hospital and redirect the traffic. I don't see the point.
- I wish they would put 8th Street back the way it was. No one will bike there because it is too dangerous.
- I wish they would resurface 8th Street.
- I wish we could find a way to keep people from turning left around Holiday Inn.
- I wish we would spend less money studying the problem and just go ahead and do it. Most congestion issues are only at certain times of the day or in the summer.
- I would hate to see a roundabout put in at Division and 14th Street. I know some people complain about that intersection but I don't find it that bad at the times I travel it. A roundabout would just make it worse. They really need to do something about the congestion on 8th Street and S. Airport.
- I would like 8th Street speed limit to be enforced. I like the additional lanes they put in.
- I would like somebody to take care Hoosier Valley Road.
- I would like them to continue to explore the possibility of a roundabout at Division and the Parkway.

- I would like to know what is going to be happening with 8th Street and how it will improve as time goes by.
- I would like to say it would move traffic in the summertime and those travelling to and from work.
- I would like to see 8th Street organized a little better.
- I would like to see a bridge over Boardman Lake between 16th and Hannah.
- I would like to see a lot of thought given to the possibility of different kinds of public transportation; i.e. street cars, etc. I would also like to see raised bike paths. The ones they have are dangerous. Any development needs to have bike paths in mind and not just painted lines on the pavement.
- I would like to see a train to go down state and or to Grand Rapids
- I would like to see another East-West Corridor.
- I would like to see Hartman and Hammond connected. It would be a huge help!
- I would like to see more public transportation available.
- I would like to see more technology in the region; M22 rerouted to go parallel with bike trail.
- I would like to see more traffic lights operate on the smart light system.
- I would like to see public bus transportation where I live on the Peninsula. They had it a few years ago and now they don't.
- I would love to see an additional route!
- I would love to see more partitioned off bike lanes to make them safer.
- I'd like to see something done sooner than later.
- If we all had jobs on our own side of town, there would be no traffic problems.
- If we can keep the flow going a little better; but having to stop at every single light West on 8th St. between Union & Cass is very frustrating. The lights are not timed for flow between Union, Cass and Boardman.
- Intersection of Vance Road and M37 should have regular light to avoid accidents.
- It definitely needs to be looked into. We need another route.
- It is a difficult problem but I don't want to ruin the Boardman River habitat.
- It is a very challenging area to try to design additional crossing because of the Bay.
- It is congested nearly everywhere I go.
- It is critical to keep the traffic moving. They need to adjust the lights to the traffic flow. You can't have stop and start like it is on the major North South roads now.
- It is definitely a huge problem.
- It is time to stop studying and start acting.
- It is what it is. Because the town keeps growing, traffic will also.
- It needs further investigation but extensive studies would not be affordable.
- It needs to be improved.
- It needs to get fixed.

- It seems like it's getting remarkably more congested.
- It seems the traffic congestion is caused by tourists. If you compare to down state, we don't really have a problem. Peninsula has become very congested with all the wineries out here now. They come in busses.
- It used to be just a summertime problem. Now the problem is year around.
- It was a shocking reality to come back here after living in the West for 20 years and find that people do not stop for pedestrians.
- It will be a must eventually.
- It would be nice to have a bypass for people to route around Traverse City. Perhaps between Chums and 14th Street.
- It's about time to do something to relieve traffic in the area.
- It's ridiculous on South Airport. Chums Corners is a mess. We need a bypass.
- It's tough to imagine what can be done to alleviate the traffic congestion in the summer.
- Keep an expressway well south of town.
- Left hand turn lanes, timing of stop lights, and consistent speed limit from Cherry Bend to Acme.
- Let's put the bypass in.
- Living in the central neighborhood, I am concerned about the number of people that cut thru the neighborhood trying to save time. With small children, I am very concerned.
- More construction leads to more traffic congestion.
- More roundabouts at 3 Mile and Hammond, Division, and 8th Street would ease traffic congestion.
- Most traffic problems are due to tourist in summer. Fix 8th Street. That bike path is nonsense on that road.
- Motor vehicles should be sharing the road more with bikes and pedestrians. They don't obey the signs and turn in front of them.
- Much of the congestion is seasonal.
- My biggest concern with the traffic congestion is the safety factor not so much the delays.
- My biggest snafu is US 31 and Division Street.
- My thought is that all these tree huggers have stopped the bridge going over the Boardman but they don't seem to worry about what taking the dams out might be doing to the environment. They could have used the dams to generate electricity for Traverse City for years. Taking the dams out puts us back to when we get a lot of rain, we get flooding. As far as traffic concerns, if they put the bridge in now, everything (environmentally) will go back and it will be like nothing ever happened. When they put the dams in 100 years ago; things all went back. Now is the time to put in the bridge while the environment is being totally disrupted while taking the dams out. Harming the environment is not a case anymore. For traffic in Traverse City, especially in the summer, we need to put the bridge in.
- No roundabouts, longer left hand turn lanes, and a right hand turn lane on Milliken and Eastern.

- Overall congestion is not severe compared to the Detroit area.
- Parking downtown is terrible and 2 hour meters are a joke. We have no place to drop off seniors.
- People coming and going home and to work are the most congested times of the day.
- People in a big hurry complain about traffic. Traffic can be improved in many ways. The public has to recognize that our economy is driven by tourism and adjust to it.
- People move up here so they can live in a beautiful setting. Don't make it a big city.
- Please do something about it.
- Protect the VASA Trail and make it a true bypass with no strip development.
- Quit spending so much money on surveys and take care of the problem.
- Repave 8th Street.
- Return 8th Street to four lanes.
- Roundabouts are a joke.
- Roundabouts at 14th and Division and Division and Front would be helpful.
- Since the Little Fleet Bar and Food Trailers were put in on Wellington, the whole neighborhood is congested. They really dropped the ball on that one. They had parking there when it was just the store and now with all the food trucks, there is no place to park except the street. I live down there and when someone comes to visit, they have to park two or more blocks away.
- Something has to be done and make more room for cars for East West travel. It is a real problem but I am not sure what the answer is.
- Something must be done.
- Something needs to be done soon!
- Something needs to be done with 8th Street. It flowed better before they changed it.
- South Airport and Cass seems to bottleneck.
- South Airport is really congested and we need a bypass around it. The Hartman-Hammond connection would be great.
- South Airport traffic congestion could be alleviated by synchronized stop lights.
- The 8th Street route the city is on is the right one. I don't think there are viable options for another east-west corridor.
- The bicycle path on 8th Street is stupid.
- The current 8th Street striping plan will cause gridlock. US 31 needs to be 5 lanes around Sunset Park to allow left hand turns. South Airport lights need to be timed so traffic doesn't stop at every light. A Hartman-Hammond bypass would eliminate much of the semi-truck traffic on Hammond/Keystone/Beitner.

- The growing amount of traffic coming to Downtown is trying everyone's patience. The push to populate the downtown area will exacerbate already existing congestion moving in and around town. The emphasis on walkability and ease of bicycling through town as a philosophy overlooks and frequently disregards the reality that most people will continue to use autos to get to, through, and around TC. For many TC residents, the option of walking or biking to the needed destination is not possible.
- The Hammond-Hartman idea could have alleviated some of the traffic.
- The intersection at 8th and Rose really upsets me because of the timing of the light. I spend more time waiting at that intersection when there is no traffic. It is just a block away from where I live so I am stuck there often.
- The light on Brimley should be moved to Hoch and Keystone Roads
- The new plan for 8th Street is a great idea.
- The North-South should be studied as well.
- The roads are terrible.
- The street lights are not very well timed along S. Airport. There are far too many traffic controls all over town. My neighborhood doesn't even need traffic control and it has far too many stop signs. Build a bypass around town like they should have done 40 years ago.
- The streets need to be fixed.
- The summertime is very congested and certain times of the day.
- The timing of the lights needs to be fixed.
- The traffic problem is in the summer with the influx of people we get.
- There is a lot of traffic but I don't seem to have any problem with it.
- There needs to be a fix.
- They are 30 years late! We need to repair the roads we have, also.
- They are going to have to do something real quick. Let's lower the speed limit.
- They are going to have to do something. Times we go on S. Airport are not so bad most of the time because they have the lights timed well. Most of the problem with S. Airport is in the summer when the tourists are here. M 22 heading north gets bottled up and Division can be a mess. Everyone seems to want to merge on the West side. When we have to get to the hospital that seems to be a concern. It can be a mess and people do not pull over. The western part of Front St. serves as a pathway for us at times. We go thru neighborhoods at times as well to avoid the congestion. Access to the hospital has to be addressed.
- They are going to have to figure out something.
- They could do the wrap around they talked about many years ago, the Hammond-Hartman.

- They do need to do something out by Hartman/Hammond. What they did with 8th Street has caused more problems. A lot of accidents because of the bike lane. I think it is terrible that they spend thousands of dollars on these surveys and then do what they want instead of what the people want.
- They have way too many stop walks in the West End.
- They left the old Cass Street Bridge rather than connecting Hammond with Hartman.
- They messed 8th street up.
- They must have a bypass. Keep the Chamber of Commerce out of it.
- They need a left hand turn light when traveling East on 8th Street going North onto Boardman; it is too congested there.
- They need a second left turn lane off the Parkway onto Division. They need to put 8th Street back the way it was. I do not like the bike path, it seems dangerous.
- They need another route developed especially for the summer traffic.
- They need to build a bridge across the Boardman between Hammond and Hartman.
- They need to build a bypass.
- They need to deal with the potholes on 8th Street.
- They need to do something about Chums Corners and Hammond Bridge traffic.
- They need to do something.
- They need to have some kind of by pass for downstate traffic so they don't have to use Bayshore thru town going north.
- They need to look more heavily at rerouting traffic around town.
- They need to start getting it right.
- They need to synchronize lights and improve roads.
- They need to widen 8th Street to 4 lanes.
- They need to widen the roads. Traverse City is getting too big for them.
- They need to work on South Airport around the Mall area.
- They really need to fix the potholes on 8th Street.
- They should have closed the old Cass Street Bridge.
- They should have completed a bypass long ago.
- They should not have gotten rid of trains in the U.S. We had trains when I was a girl.
- They should widen 8th Street for a better thoroughfare.
- They've got to do something to fix it!

- This entire household feels the same way about the 8th Street situation. Whatever they did to 8th was a bad move and should be put back the way it was. I would rather ride my bike on the sidewalk than in the bike lane. You could get killed. It is too dangerous and it causes traffic to be backed up all the time.
- This is a vehement declaration. Eighth Street needs to be returned to a traffic corridor and bike traffic moved to another street for everybody's safety.
- Traffic circles make a positive impact on moving traffic.
- Traffic congestion is only a problem during events like the Cherry Festival.
- Traffic is episodic and manageable.
- Traffic is something we must learn to live with.
- Traffic lights need to be in sync so you don't have to stop and go.
- Traffic seems to be getting worse and worse.
- Traffic lights need to be timed better, more intersections need turning lights, and do not add roundabouts.
- Travel during peak season hours is most difficult. Building another east-west passage would ease it.
- Traverse City and Grand Traverse County Road Commission do a poor job timing stop and go signals. If they do not have a system, they should invest in one. I have lived in many cities comparable in size to Traverse City and we do the worst job by far of signal control. Development that is too quickly approved is not good for infrastructure.
- Traverse City has been very conscientious to keep traffic flowing well. I feel the only real traffic congestion comes in the summer. If they have some way to announce, to out of towners during Cherry Festival, alternate routes.
- Traverse City needs to do something about the congestion.
- We are totally against roundabouts.
- We do need an alternative, especially when roadwork is happening.
- We do need another way of getting around, especially during festivals and summer. And, it would help if they did not do the construction right at those times.
- We do need the bypass. I don't even go into town during the Cherry Festival.
- We don't hit a lot of traffic coming into town.
- We need a bypass at Chums Corner and Beitner and widen to a four lane connecting to Hammond which is already a four lane all the way to 5 Mile around the Bay. I have lived here 30 years and they have been talking about a bypass all that time. It is about time they actually did something about it.
- We need a bypass badly!
- We need a bypass for trucks - especially long ones.

- We need a roundabout on M22/M72 intersection and cars coming in from Suttons Bay need to travel faster.
- We need a stop light at the corner of Grandview Rd and M22.
- We need another east-west corridor.
- We need another route in the area.
- We need fewer traffic lights and stops, specifically on 8th Street and 14th Street.
- We need Hammond Rd. all the way over to 31.
- We need more crosstown choices very soon, like Hammond-Hartman.
- We need more east-west routes, but it is difficult to find good areas for them.
- We need some kind of bypass with limited access.
- We need to research and make some positive changes.
- We need wider streets. We need to ask other big towns what they do to handle traffic.
- We really are all for that Hartman Hammond Bridge
- We really need a bridge over the Boardman at Hammond.
- We strongly need another option for E/W travel. It's a nightmare; the traffic from outside.
- We would like to see bus service from a location in TC to downtown and back only.
- What they have done to 8th Street has really congested traffic tremendously. Backed up all the time.
- When you get to Division to go to Meijer, it is very busy!

# Appendix A: Survey Instrument

1. In which city or township do you reside?

- |                          |                      |                   |                       |
|--------------------------|----------------------|-------------------|-----------------------|
| 1. City of Traverse City | 3. Garfield Township | 5. Blair Township | 7. Peninsula Township |
| 2. Elmwood Township      | 4. East Bay Township | 6. Acme Township  |                       |

2. Are you a:

1. Year-Round Resident - residing in the area 10 – 12 months out of the year
2. Seasonal Resident - residing in the area 9 or fewer months out of the year

3. When traveling east-west by car in the Traverse City Urbanized Area, are you most likely to travel along:

(Choose only one)

1. Bayshore corridor, that is US31/M22/M72, extending from Acme through Elmwood
2. 8<sup>th</sup> Street
3. South Airport
4. Hammond/Keystone/Beitner

4. How frequently do you vary your east-west route depending upon time of day?

1. Always
2. Often
3. Occasionally
4. Rarely
5. Never

5. Please indicate at what time of the day you are likely to travel Bayshore? You may choose all that apply.

- 5a. Morning
- 5b. Afternoon
- 5c. Evening
- 5d. Do not travel Bayshore

6. Please indicate at what time of the day you are likely to travel 8<sup>th</sup> Street? You may choose all that apply.

- 6a. Morning
- 6b. Afternoon
- 6c. Evening
- 6d. Do not travel 8<sup>th</sup> Street

7. Please indicate at what time of the day you are likely to travel South Airport? You may choose all that apply.

- 7a. Morning
- 7b. Afternoon
- 7c. Evening
- 7d. Do not travel South Airport

8. Please indicate at what time of the day you are likely to travel Hammond-Keystone-Beitner? You may choose all that apply.

- 8a. Morning
- 8b. Afternoon
- 8c. Evening
- 8d. Do not travel Hammond-Keystone-Beitner

9. How frequently do you avoid local areas or attractions due to traffic congestion?

1. Always
2. Often
3. Occasionally
4. Rarely
5. Never

10. (If Always, Often or Occasionally) What areas or places do you avoid due to traffic congestion?

(Choose all that apply, Do Not Read)...

- 10a. Downtown
- 10b. Mall
- 10c. Commons Area
- 10d. Munson Medical Center Campus
- 10e. Cherry Festival
- 10f. Other \_\_\_\_\_

11. In your opinion, what degree of impact would an additional east-west crossing have on current east-west travel congestion? 1. High Impact 2. Medium Impact 3. Low Impact 4. No Impact 5. Uncertain/DK (Do not read)

12. Do you support a new east-west crossing over the Boardman River located somewhere between South Airport and Chums Corners? 1. Yes 2. No 3. Uncertain

The next series of questions addresses transportation issues in the Traverse City Urbanized Area. Please indicate the extent to which you agree or disagree with the following statements:

	1. Strongly Agree	2. Somewhat Agree	3. Undecided	4. Somewhat Disagree	5. Strongly Disagree	(6. No Opinion)
	SA			UN		SD
13. There is excessive (non-local) traffic in my neighborhood.	1	2	3	4	5	6
14. It usually takes too long to drive where I need to go.	1	2	3	4	5	6
15. Traffic on Bayshore corridor is congested.	1	2	3	4	5	6
16. Traffic on South Airport is congested.	1	2	3	4	5	6
17. Traffic on 8 <sup>th</sup> Street is congested.	1	2	3	4	5	6
18. Traffic on Hammond-Keystone-Beitner is congested.	1	2	3	4	5	6

19. In your opinion, which intersection in the Traverse City area is most congested? Please note that congestion refers to traffic delays, etc., and not necessarily the amount of traffic at the intersection. (DO NOT READ)

- |   |   |                                  |
|---|---|----------------------------------|
| 1) South Airport and Garfield           | 6) Division and Grandview Parkway             | 10) Hammond and Garfield         |
| 2) South Airport and Cass               | 7) Front and Garfield                         | 11) Hammond and Beitner/Keystone |
| 3) South Airport and US-31/Division     | 8) Chums Corners                              | 12) Other, specify:              |
| 4) Division and 14 <sup>th</sup> Street | 9) US-31, M-22 and M-72 (near Tom's West Bay) |                                  |
| 5) Division and Front Street            |   |                                  |

How likely are you to use each of the following modes of transportation in the Traverse City Urbanized Area within the next 20 years?

- |  |                |                    |        |
|--|----------------|--------------------|--------|
| 20. Vehicular at all Likely                        | 1. Very Likely | 2. Somewhat Likely | 3. Not |
| 21. Public Bus Transportation at all Likely        | 1. Very Likely | 2. Somewhat Likely | 3. Not |
| 22. Non-Motorized, including Bicycle at all Likely | 1. Very Likely | 2. Somewhat Likely | 3. Not |

and Pedestrian – that is, walking for the purpose of transportation to employment, shopping, etc., NOT for the purpose of exercise or recreation.

- |  |                |                    |        |
|--|----------------|--------------------|--------|
| 23. Other, please specify: at all Likely | 1. Very Likely | 2. Somewhat Likely | 3. Not |
|--|----------------|--------------------|--------|

24. Do you have any additional comments regarding east/west mobility in the Traverse City Urbanized Area?

## Appendix B: Full Frequencies

### In which city or township do you reside?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	City of Traverse City	99	24.0	24.0	24.0
	Elmwood Township	31	7.5	7.5	31.5
	Garfield Township	104	25.2	25.2	56.7
	East Bay Township	66	16.0	16.0	72.6
	Blair Township	53	12.8	12.8	85.5
	Acme Township	28	6.8	6.8	92.3
	Peninsula Township	32	7.7	7.7	100.0
	Total	413	100.0	100.0	

### Are you a year-round or seasonal resident?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Year-Round Resident (residing in area 10 - 12 months out of the year)	392	94.9	94.9	94.9
	Seasonal Resident - residing in area 9 or fewer months out of the year	21	5.1	5.1	100.0
	Total	413	100.0	100.0	

**When traveling east-west by car in the Traverse City Urbanized Area, are you most likely to travel along:**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bayshor Corridor, that is US31/M22/M72, extending from Acme through Elmwood	135	32.7	35.3	35.3
	8th Street	85	20.6	22.3	57.6
	South Airport	85	20.6	22.3	79.8
	Hammond/Keystone/Beitner	77	18.6	20.2	100.0
	Total	382	92.5	100.0	
Missing	System	31	7.5		
Total		413	100.0		

**How frequently do you vary your east-west route depending upon time of day?**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Always	74	17.9	18.0	18.0
	Often	87	21.1	21.1	39.1
	Occasionally	126	30.5	30.6	69.7
	Rarely	70	16.9	17.0	86.7
	Never	55	13.3	13.3	100.0
	Total	412	99.8	100.0	
Missing	System	1	.2		
Total		413	100.0		

**Please indicate at what time of the day you are likely to travel Bayshore? Morning**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	204	49.4	49.4	49.4
	No	209	50.6	50.6	100.0
	Total	413	100.0	100.0	

**Please indicate at what time of the day you are likely to travel Bayshore? Afternoon**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	192	46.5	46.5	46.5
	No	221	53.5	53.5	100.0
	Total	413	100.0	100.0	

**Please indicate at what time of the day you are likely to travel Bayshore? Evening**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	157	38.0	38.0	38.0
	No	256	62.0	62.0	100.0
	Total	413	100.0	100.0	

**Do Not Travel Bayshore**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	100	24.2	24.2	24.2
	No	313	75.8	75.8	100.0
	Total	413	100.0	100.0	

**Please indicate at what time of the day you are likely to travel 8th Street? Morning**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	193	46.7	46.7	46.7
	No	220	53.3	53.3	100.0
	Total	413	100.0	100.0	

**Please indicate at what time of the day you are likely to travel 8th Street? Afternoon**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	247	59.8	59.8	59.8
	No	166	40.2	40.2	100.0
	Total	413	100.0	100.0	

**Please indicate at what time of the day you are likely to travel 8th Street? Evening**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	127	30.8	30.8	30.8
	No	286	69.2	69.2	100.0
	Total	413	100.0	100.0	

**Do Not Travel 8th Street**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	90	21.8	21.8	21.8
	No	323	78.2	78.2	100.0
	Total	413	100.0	100.0	

**Please indicate at what time of the day you are likely to travel South Airport? Morning**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	217	52.5	52.5	52.5
	No	196	47.5	47.5	100.0
	Total	413	100.0	100.0	

**Please indicate at what time of the day you are likely to travel South Airport? Afternoon**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	257	62.2	62.2	62.2
	No	156	37.8	37.8	100.0
	Total	413	100.0	100.0	

**Please indicate at what time of the day you are likely to travel South Airport? Evening**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	149	36.1	36.1	36.1
	No	264	63.9	63.9	100.0
	Total	413	100.0	100.0	

**Do Not Travel South Airport**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	62	15.0	15.0	15.0
	No	351	85.0	85.0	100.0
	Total	413	100.0	100.0	

**Please indicate at what time of the day you are likely to travel Hammond-Keystone-Beitner?**

**Morning**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	145	35.1	35.1	35.1
	No	268	64.9	64.9	100.0
	Total	413	100.0	100.0	

**Please indicate at what time of the day you are likely to travel Hammond-Keystone-Beitner?**

**Afternoon**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	154	37.3	37.3	37.3
	No	259	62.7	62.7	100.0
	Total	413	100.0	100.0	

**Please indicate at what time of the day you are likely to travel Hammond-Keystone-Beitner?**

**Evening**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	119	28.8	28.8	28.8
	No	294	71.2	71.2	100.0
	Total	413	100.0	100.0	

**Do Not Travel Hammond-Keystone-Beitner**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	199	48.2	48.2	48.2
	No	214	51.8	51.8	100.0
	Total	413	100.0	100.0	

**How frequently do you avoid local areas or attractions due to traffic congestion?**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Always	106	25.7	25.7	25.7
	Often	133	32.2	32.2	57.9
	Occasionally	111	26.9	26.9	84.7
	Rarely	41	9.9	9.9	94.7
	Never	22	5.3	5.3	100.0
	Total	413	100.0	100.0	

**(If Always, Often or Occasionally) What areas or places do you avoid due to traffic congestion? Downtown**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	158	38.3	45.3	45.3
	No	191	46.2	54.7	100.0
	Total	349	84.5	100.0	
Missing	System	64	15.5		
Total		413	100.0		

**(If Always, Often or Occasionally)**

**What areas or places do you avoid due to traffic congestion? Mall**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	20	4.8	5.7	5.7
	No	329	79.7	94.3	100.0
	Total	349	84.5	100.0	
Missing	System	64	15.5		
Total		413	100.0		

(If Always, Often or Occasionally)

**What areas or places do you avoid due to traffic congestion? Commons Area**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	5	1.2	1.4	1.4
	No	344	83.3	98.6	100.0
	Total	349	84.5	100.0	
Missing	System	64	15.5		
Total		413	100.0		

(If Always, Often or Occasionally)

**What areas or places do you avoid due to traffic congestion? MMC Campus**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	5	1.2	1.4	1.4
	No	343	83.1	98.6	100.0
	Total	348	84.3	100.0	
Missing	System	65	15.7		
Total		413	100.0		

(If Always, Often or Occasionally)

**What areas or places do you avoid due to traffic congestion? Cherry Festival**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	108	26.2	30.9	30.9
	No	241	58.4	69.1	100.0
	Total	349	84.5	100.0	
Missing	System	64	15.5		
Total		413	100.0		

**(If Always, Often or Occasionally)**

**What areas or places do you avoid due to traffic congestion? 8th Street**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	11	2.7	100.0	100.0
Missing	System	402	97.3		
Total		413	100.0		

**(If Always, Often or Occasionally)**

**What areas or places do you avoid due to traffic congestion? South Airport**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	26	6.3	100.0	100.0
Missing	System	387	93.7		
Total		413	100.0		

**(If Always, Often or Occasionally)**

**What areas or places do you avoid due to traffic congestion? Other**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	193	46.7	66.6	66.6
	No	97	23.5	33.4	100.0
	Total	290	70.2	100.0	
Missing	System	123	29.8		
Total		413	100.0		

**In your opinion, what degree of impact would an  
additional east-west crossing have on current east-west travel congestion?**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	High Impact	214	51.8	51.8	51.8
	Medium Impact	98	23.7	23.7	75.5
	Low Impact	24	5.8	5.8	81.4
	No Impact	9	2.2	2.2	83.5
	Uncertain/DK	68	16.5	16.5	100.0
	Total	413	100.0	100.0	

**Do you support a new east-west crossing over the Boardman River located  
somewhere between South Airport and Chums Corners?**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	263	63.7	63.7	63.7
	No	52	12.6	12.6	76.3
	Uncertain	98	23.7	23.7	100.0
	Total	413	100.0	100.0	

**There is excessive (non-local) traffic in my neighborhood.**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Agree	85	20.6	20.7	20.7
	Somewhat Agree	90	21.8	22.0	42.7
	Undecided	18	4.4	4.4	47.1
	Somewhat Disagree	74	17.9	18.0	65.1
	Strongly Disagree	136	32.9	33.2	98.3
	No Opinion	7	1.7	1.7	100.0
	Total	410	99.3	100.0	
Missing	System	3	.7		
Total		413	100.0		

**It usually takes too long to drive where I need to go.**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Agree	71	17.2	17.3	17.3
	Somewhat Agree	138	33.4	33.7	51.0
	Undecided	36	8.7	8.8	59.8
	Somewhat Disagree	102	24.7	24.9	84.6
	Strongly Disagree	54	13.1	13.2	97.8
	No Opinion	9	2.2	2.2	100.0
	Total	410	99.3	100.0	
Missing	System	3	.7		
Total		413	100.0		

**Traffic on Bayshore corridor is congested.**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Agree	184	44.6	44.9	44.9
	Somewhat Agree	145	35.1	35.4	80.2
	Undecided	37	9.0	9.0	89.3
	Somewhat Disagree	23	5.6	5.6	94.9
	Strongly Disagree	8	1.9	2.0	96.8
	No Opinion	13	3.1	3.2	100.0
	Total	410	99.3	100.0	
Missing	System	3	.7		
Total		413	100.0		

**Traffic on South Airport is congested.**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Agree	250	60.5	61.0	61.0
	Somewhat Agree	129	31.2	31.5	92.4
	Undecided	7	1.7	1.7	94.1
	Somewhat Disagree	18	4.4	4.4	98.5
	Strongly Disagree	1	.2	.2	98.8
	No Opinion	5	1.2	1.2	100.0
	Total	410	99.3	100.0	
Missing	System	3	.7		
Total		413	100.0		

**Traffic on 8th Street is congested.**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Agree	184	44.6	44.9	44.9
	Somewhat Agree	133	32.2	32.4	77.3
	Undecided	40	9.7	9.8	87.1
	Somewhat Disagree	33	8.0	8.0	95.1
	Strongly Disagree	7	1.7	1.7	96.8
	No Opinion	13	3.1	3.2	100.0
	Total	410	99.3	100.0	
Missing	System	3	.7		
Total		413	100.0		

**Traffic on Hammond-Keystone-Beitner is congested.**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Agree	46	11.1	11.2	11.2
	Somewhat Agree	93	22.5	22.7	33.9
	Undecided	79	19.1	19.3	53.2
	Somewhat Disagree	67	16.2	16.3	69.5
	Strongly Disagree	25	6.1	6.1	75.6
	No Opinion	100	24.2	24.4	100.0
	Total	410	99.3	100.0	
Missing	System	3	.7		
Total		413	100.0		

**In your opinion, which intersection in the Traverse City area is most congested?  
Please note that congestion refers to traffic delays, etc., and not necessarily the  
amount of traffic at the intersection. (DO NOT READ)**

	Frequency	Percent	Valid Percent	Cumulative Percent
South Airport and Garfield	18	4.4	4.5	4.5
South Airport and Cass	46	11.1	11.6	16.2
South Airport and US- 31/Division	50	12.1	12.6	28.8
Division and 14 <sup>th</sup> Street	60	14.5	15.2	43.9
Division and Front Street	27	6.5	6.8	50.8
Division and Grandview Parkway	62	15.0	15.7	66.4
Front and Garfield	15	3.6	3.8	70.2

Chums Corners	12	2.9	3.0	73.2
US-31, M-22 and M-72 (near Tom's West Bay)	16	3.9	4.0	77.3
Hammond and Garfield	1	.2	.3	77.5
Hammond and Beitner/Keystone	1	.2	.3	77.8
Other, specify:	88	21.3	22.2	100.0
Total	396	95.9	100.0	
Mis System sin g	17	4.1		
Total	413	100.0		

**How likely are you to use each of the following modes of transportation in the  
Traverse City Urbanized Area within the next 20 years? Vehicular**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very Likely	385	93.2	94.1	94.1
	Somewhat Likely	22	5.3	5.4	99.5
	Not at all Likely	2	.5	.5	100.0
	Total	409	99.0	100.0	
Missing	System	4	1.0		
Total		413	100.0		

**How likely are you to use each of the following modes of transportation in the Traverse City Urbanized Area within the next 20 years? Public Bus Transportation**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very Likely	16	3.9	3.9	3.9
	Somewhat Likely	112	27.1	27.4	31.3
	Not at all Likely	281	68.0	68.7	100.0
	Total	409	99.0	100.0	
Missing	System	4	1.0		
Total		413	100.0		

**How likely are you to use each of the following modes of transportation in the Traverse City Urbanized Area within the next 20 years? Non-Motorized, including Bicycle and Pedestrian**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very Likely	63	15.3	15.4	15.4
	Somewhat Likely	72	17.4	17.6	33.0
	Not at all Likely	274	66.3	67.0	100.0
	Total	409	99.0	100.0	
Missing	System	4	1.0		
Total		413	100.0		

**How likely are you to use each of the following modes of transportation in the Traverse City Urbanized Area within the next 20 years? Other**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very Likely	9	2.2	2.2	2.2
	Somewhat Likely	4	1.0	1.0	3.2
	Not at all Likely	395	95.6	96.8	100.0
	Total	408	98.8	100.0	
Missing	System	5	1.2		
Total		413	100.0		

### Gender

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	160	38.7	38.9	38.9
	Female	251	60.8	61.1	100.0
	Total	411	99.5	100.0	
Missing	System	2	.5		
Total		413	100.0		

### Phone Type

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Landline	242	58.6	58.6	58.6
	Wireless	171	41.4	41.4	100.0
	Total	413	100.0	100.0	