# **Emmet County**

# Growth & Investment Area Study And Commercial Corridor Inventory



2014 Edition

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# **Acknowledgements**

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Introduction page i

#### Introduction

The vitality of our villages and cities and their central business districts and commercial corridors is a critical part of what determines our standard of living in Northwest Michigan. Without economically viable and vibrant commercial areas our ability to earn a living, purchase goods and services, and learn of new opportunities would fail to meet our expectations and needs. Lending support to the self-evident importance of our Northwest Michigan villages' and cities', is a wealth of economic studies that demonstrate the positive impacts that concentrating people and economic activity can have for lifting real wages and elevating our quality of life. To provide the best foundation for our citizens to maximize their individual potentials it is essential that these areas attract growth and investment as the area grows.

The disciplines of planning and economic development imply the ability to analyze a situation and gauge the effectiveness of policy choices. The complexity of our interactions has always been a difficult mountain to climb for discovering which policies lead to successful outcomes. However, we gain better tools to help us sort through the complexities every year. Today's Apple iPad has the computing power of a super computer from 20 years ago. Increasingly we have the ability to make use of large amounts of data to help make better decisions. Not taking advantage of these tools, can potentially lead to the waste of the public and private wealth that Northwest Michigan works so hard to build.

To insure economically healthy and vibrant communities in Northwest Michigan, we need to study how our various communities are preparing themselves to leverage growth and investment forces to assist in achieving their community's goals. The first step is the identification of communities or areas that are preparing for growth and investment. Are they maximizing the benefits, while minimizing the impacts to our predominately rural setting and natural landscapes?

In addition to learning which locally implemented policies are successful, it is useful to measure key components of growth and investment, as identified by experts in the field of community economic development. Understanding where our Northwest Michigan communities fall on the scale of a group of select factors will provide potential goals for communities interested in maximizing their potential outcomes for their citizens. Studying these areas and learning what policies are working and which ones are not, will ultimately help to maintain and improve life in Northwest Michigan.

In order to gauge how our communities are growing, attracting economic activity, and putting in place policies that maximize potentials, Networks Northwest has conducted studies of Growth & Investment Areas (G&I Areas) and their associated Commercial Corridors, with the assistance of the State of Michigan Regional Prosperity Initiative (RPI) and the Partnership for Sustainable Communities, a cooperative program of the U.S. Department of Housing and Urban Development (HUD), the U.S. Department of Transportation (DOT), and the U.S. Environmental Protection Agency (EPA). This companion document to the Regional Prosperity Plan collected data from a variety of public and commercial providers, as well as conducted interviews of public officials, which were synthesized into this report.

#### **Growth &Investment Areas**

#### **Elements of Identification**

A community asset inventory survey was conducted in 2010 by the Northwest Michigan Council of Governments in conjunction with the Growth & Investment Network, which was initially formed during the community engagement portion of The Grand Vision. The survey collected responses from cities, incorporated and unincorporated villages, townships, and planned growth areas in Antrim, Benzie, Charlevoix, Emmet, Grand Traverse, Kalkaska, Leelanau, Manistee, Missaukee, and Wexford counties. The results of the survey were used to develop criteria for selecting areas from the region that were best positioned to accommodate future growth patterns anticipated for northern Michigan over the next 25 years. Initially, five criteria were chosen to select areas for additional analysis regarding their Growth & Investment readiness, trends, and capabilities. The five criteria are:

- 1. Operational Municipal Water System
- 2. Operational Municipal Sewer System
- 3. Approved Master Plan that recommends a defined higher density downtown core for development & investment
- 4. A Zoning Ordinance in place that codifies higher density development in the downtown core
- 5. Available Governmental Staff to process requests and permits

The community asset inventory was updated in 2012 with respect to these five criteria and then used to select the initial Growth & Investment areas for additional study. This resulted in 31 areas being selected. In those 31 initially identified Growth & Investment Areas, there are 42 individual units of government comprising the core commercial development areas. These 42 units of government were contacted by the Networks Northwest and asked to assist this study by providing time with staff or elected officials to conduct the Commercial Corridor Inventory Interviews.

#### **Commercial Corridor Inventory Interviews**

As a central component of this project, units of government in the initial selection of G&I Areas were interviewed to collect their responses to questions regarding master planning, land use, capital improvement, transportation, infrastructure, and community marketing policies. The communities were asked to select their best qualified personal and/or elected official(s) to participate. Additionally, these interviews asked the local units of government to self-identify their commercial corridors of significance. The interviews were conducted from December 2012 to March 2014.

The interviews were conducted using a checklist tool called the *Commercial Corridor Inventory*. This inventory was designed to be objective and focused on current attributes, not future plans. Most of the Inventory's questions required a simple "Yes/No" answer; however they also contained an "Additional Comments" space to expand upon the answers or in many cases indicate policy areas that are currently in the development stage. Many of the policy questions relate to a sampling of best practices from the Michigan Economic Development Corporation's (MEDC) Redevelopment Ready Communities (RRC) program.

The commercial corridors were identified by the units of government based on their own criteria for significance to their community after receiving a brief introduction to the goals for the study. The corridor identification information from the interview was then entered in a Geographic Information System and place database for the mapping and analysis contained in this report.

#### **Focus for Growth & Investment Study**

The wealth of economic studies that demonstrate the positive impacts that concentrating people and economic activity can have for lifting real wages and elevating our quality of life was used as a guide in the development of the analysis components for Northwest Michigan Growth & Investment Area Studies and Commercial Corridor Inventories. This study is not intended as a one size fits all yard stick for Northwest Michigan communities to measure their status with respect to growth and investment. Some communities may choose to focus on areas that can assist in maintaining the viability of their community's existing business establishments and others may choose to focus their attention on areas that can grow their local economies and population. One of the study's components that contains a mix of evaluation tools is a Growth Readiness Assessment. The mix of included criteria contain some that apply to all communities regardless of size and some that are designed primarily for larger communities. Communities should evaluate which study criteria are of value in gauging progress on the individual growth and investment goals they have set for their communities.

#### **Growth & Investment Readiness Assessments**

# Original Selection Criteria

# **Municipal Water & Sewer**

Determining the density limit for individual residential septic systems is a complex issue and is based on an understanding of the site specific hydrology and water quality impacts. Michigan is the only state without specific state enabling legislation related to on-site wastewater treatment systems. Regulatory control over conventional septic tank and drain field siting, design, and construction is under the jurisdiction of local health departments. (Michigan Department of Environmental Quality 2004) The commonly accepted housing density standards before Municipal Water or Sewer are required may be summarized as follows: (American Society of Planning Officials 1952)

- Two families to the acre where both water and sewage systems are lacking.
- Four families to the acre where either water or sewer systems are lacking.
- Greater density where both facilities are provided.

As a caveat to these standards, studies have indicated that depending on the site conditions, even one family to the acre may not be sufficient to protect water quality and guard against conditions that could lead to premature failure of Onsite Sewage Disposal Systems.

Thus for the greater density made possible by community water and sewer service together with the greater environmental protections that properly maintained and updated municipal systems can achieve, This study focused on communities that had municipal systems in place or were trending towards implementing them.

#### **Government Staff**

In order to process development requests as well as having the capacity to analyze the successes and failures of land use application reviews, this study focused on communities that had sufficient staff resources.

#### **Master Plan Includes Higher Density Center**

The previous Community Asset Inventory reviewed community master plans to determine if they contained goals for the establishment of a higher density core or downtown. This was determined as a key predictor of the community's capability to accommodate future growth.

#### **Zoning Ordinance Supporting Master Plan Density Center**

As with the master plan high density center criterion, the previous Community Asset Inventory reviewed community zoning ordinances to determine if they codified the master plan goals for the establishment of a higher density core or downtown.

#### Census Data Criteria

#### **Core Place Population Increasing**

One of the effects of Northwest Michigan's vacation market, is declining year round population for some of the communities with high rates of second home ownership. This can lead to year round cash flow challenges for the local retail sector. As a result this study chose to track changes in Core Place population as a potential indicator for the sustainability of retail business activity.

#### Housing Growth Rate Over 15% (2000-2010 Census)

The criterion of a 15% housing growth rate for the period between the 2000 and 2010 Censuses assists in determining which communities presently are experiencing significant development activity.

# **Core Place Housing Growth Increasing Faster than Surrounding Area**

This criterion is utilized as a measure of how our rural quality is being preserved by minimizing sprawl. It is measured by the percentage change of housing in the Core Place over the Growth & Investment Area as a whole from the 2000 to 2010 decadal Census. Other techniques for measuring of sprawl, such as satellite spectral analysis for changes in impervious surface, could be employed in the future provided sufficient budget availability.

#### Census Class (Rural, Urban Cluster, Urbanized Area, MSA)

The US Census provides a classification of rural and urban areas that is helpful in determining growth and concentrations of population (see: 2010 Census Urban and Rural Classification and Urban Area Criteria, page 69)

#### Job Density Over 75 Jobs per Acre in Commercial Corridors

A study on density as it relates to the reduction of Single Occupant Vehicle (SOV) trips and transit use found that SOV travel decreases at employment densities of 20 to 50 jobs per acre, and transit use increases dramatically at densities over 75 jobs per acre. (Frank and Pivo 1994) The Growth & Investment study chose to measure Job Densities over 75 jobs per acre to indicate corridors with strong demand for fixed route transit. In addition to transit benefits, workers support nearby retail and food service business. On average, an office worker can support 7 square feet of restaurant space and 23 square feet of retail space. (Gibbs 2012)

#### 50% of Workers Living within 5 miles

The criterion of determining whether 50% or more of the workers are living within a 5 mile commute of jobs located in Growth & Investment Core Places was selected to measure potential positive agglomeration effects for real wage growth as supported by the economic studies cited previously in this report.

# Zoning Policy Criteria

#### **Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors**

The criterion of 30 dwellings per acre was selected for study based on studies of density thresholds required for high quality walkable communities. This density is also supportive of transit operations.

#### **Zoning Allows Mixed-Use by Right in Commercial Corridors**

Walkable communities require a mix of uses to be successful in providing transportation options demanded by market shifts in housing preferences. Requiring a "Special Use" process for mixed use land use applicants can lead to constraints on the supply of mixed use development over the less cumbersome "By Right" zoning and thus hamper the success of establishing vibrant walkable communities.

#### Zoning Allows Multi-Family Residential by Right in Commercial Corridors

Multi-Family housing is increasingly in demand as the housing market shifts to smaller households looking for walkable communities. This criterion evaluates a communities policy restrictions on the supply of multi-family housing development.

# **Building Height Limits Greater than 35 feet in Commercial Corridors**

Allowing Building Height limits greater than 35 feet gives greater flexibility for both creating density in Core Places and allocating public space to critical placemaking efforts that help build vibrant communities.

#### No On-Site Parking Requirement in Central Business District

Many traditional Northwest Michigan downtowns development patterns were established before the establishment of auto parking requirements. Many existing historic downtowns can't meet the typical auto centric parking requirements without utilizing premium downtown real estate for large surface parking. Additionally, trends as outlined in this document are reducing vehicle ownership rates and thus parking requirements. This criterion helps to assess a Growth & Investment Area's flexibility to accommodate new market trends.

#### **Density Bonuses Offered for Contributions towards Public Policy Goals**

The lack of supply of affordable housing has been identified as an issue for Northwest Michigan's economic competitiveness. This fact together with the need to create vibrant communities while protecting the areas natural resources can be partially addressed with policies such as density bonuses. This study is tracking community incentive policies for addressing these regionally important goals.

# Placemaking Criteria

#### Placemaking Elements in Support of Walkable Corridors

Placemaking elements that support walkable mixed-use corridors were selected as criterion for the assessment. These elements include the presence of theaters and entertainment venues, grocery stores, parks and pocket parks, and the abundance of pedestrian connections. This selection is not intended to diminish the importance of

other placemaking elements supportive of walkable corridors, but the ability to seek entertainment, purchase food, and recreate within a pedestrian friendly environment where considered important factors to measure.

#### **Retail Hub**

This criterion evaluates whether a communities retail sector acts as a local or regional hub. (see: Retail Classification: page 72)

#### **Educational Institutions (Trade Schools, Community Colleges, Universities)**

In studying the performance of economic clusters, educational institutions play an important role in concentrating entrepreneurial activity and fostering growth and investment.

#### **Contain Medical Centers**

With the high concentration of senior demographics in Northwest Michigan's population, this study gave significance to medical infrastructure as a predictor/indicator of growth.

#### Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)

While the Zoning Policy Criteria is looking at zoning densities sufficient to create viable walkable communities, this criterion tracks actual densities as determined by the 2010 Census.

# Opportunity Criteria

#### **Community Identified Development Opportunities**

The presence of community identified development opportunities demonstrates that the community is proactive about development and has devoted resources towards potential future growth and investment.

#### **Marketing Redevelopment & Infill Sites**

Potential development sites are abundant, especially in the current post-recession economic recovery period. The existence of a marketing effort by communities of redevelopment and infill sites can lead to a greater probability of attracting development activity.

#### Fixed Route Transit (Headways 15 mins or less)

According to The Transit Cooperative Research Program headways of 15 minutes or less is an acceptable threshold for employment commuting transit use, with 10 minutes or less being ideal.

#### Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)

Traffic Counts are a determinate of the retail site viability. Average Annual Daily Counts of 10,000 can augment a neighborhood or village store's business, making it sustainable for market areas with less than the required 800 to 1,000 households that are need to support them. Larger retailer site selection criteria typically require traffic counts from 20,000 to 40,000 depending on the specifics of the capture rate.

#### Infrastructure Criteria

#### **Additional Water & Sewer Capacity**

Municipal water and sewer expansions take a significant time to permit and build. If the municipal water and sewer capabilities are at their limits, businesses looking to expand or relocate to a new facility may not be in a position to wait for the completion of an expansion project. It is important that communities plan for sufficient capacity reserve to accommodate new service and provide for time to properly plan additional expansions.

### **Broadband Service over 1 Gbps Available**

The next-generation of broadband service is providing speeds over 1 Gigabit per Second (Gbps) These speeds rely on fiber optic wires that run all the way to the premises referred to Fiber To The Home (FTTH) or Fiber To The Premises (FTTP). FTTH Consumers consistently rate it as the fastest and most reliable broadband technology. They also appreciate that fiber networks can deliver many unique broadband services for medicine, education, home-based businesses, home automation and entertainment. "There's growing evidence among economic development officials that fiber connectivity encourages businesses to stay, helps businesses grow and become more productive, and attracts new businesses, particularly in high-tech industries." (Broadband Communities 2013) In the United States, one of every five households is within reach of fiber, and nearly 10 million households are using FTTH services now.

# **Municipal WiFi**

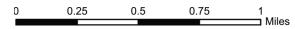
Wireless services are important public amenities, especially for younger population demographics, and are highly desirable in targeted areas such as pedestrian friendly commercial corridors and public areas. The existence of Municipal WiFi is an indicator of support for new infrastructure development important for growth and investment.

# **Growth & Investment Area Maps Legend**

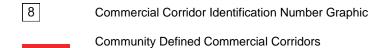
# **North Directional**



# Mileage Scale



# **Corridor Identification**



# Map Area Key



# **Commercial Corridor Maps Legend**

# **Points of Interest**



Public Use Airport



College



**Cultural Site** 



**Grocery Store** 



Hospital



Library



School



Theater/Entertainment Venue



Transit

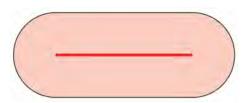
#### **North Directional**



#### Mileage Scale



# **Study Area Outline**



The Study Area is delineated by the area within .25 miles of the community defined commercial corridor (red line) and is shaded in a transparent red. Area calculations are derived from the land area only. For the purposes of pulling Census information, any 2010 Census block that is fully or partially contained with the study area was utilized in the data summaries.

# Map Area Key





**Bodies of Water** 



Municipal Boundary



Urban Cluster (as defined by the 2010 Census)

# **Growth & Investment Area Unit(s) of Government:**

Village of Alanson, Littlefield Township

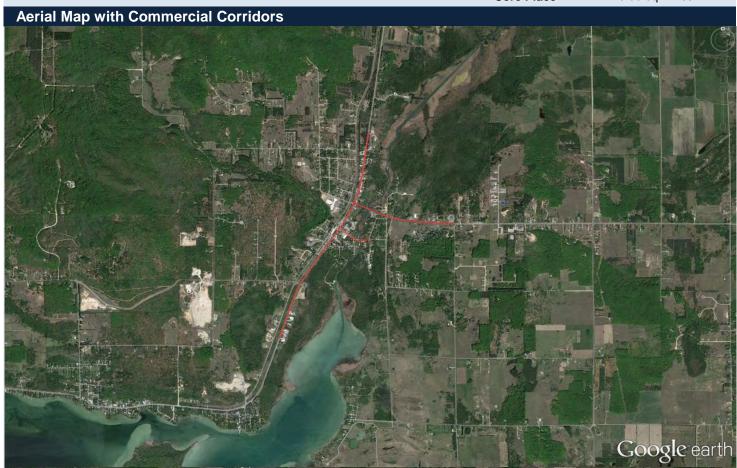
#### **Core Place Census Areas:**

Village of Alanson

County Census Class Land Area

Emmet Rural G&I Area 21.72 sq. miles

Core Place 0.99 sq. miles



# 3 Commercial Corridors Identified

Highest Corridor Traffic Count (Annual Average Daily Traffic)

Population Density Range of G&I Area Corridors (per acre)

Gross Neighborhood Density Range of G&I Area Corridors (per acre)

Job Density Range of G&I Area Corridors (per acre)

Worker Density Range of G&I Area Corridors (per acre)

1.0 - 1.6

Density calculations a derived from the area within a 1/4 mile of Corridor (Corridor Study Area)

0.3 - 0.9

Worker Density Range of G&I Area Corridors (per acre)

0.6 - 0.8

Retail

**Total Sales** \$9,524,675 **Classification:** Retail Potential Exporter

Potential Sales \$26,751,351

**Leakage** \$17,226,676 **Seasonal Housing:** 22.3% of G&I Area Housing

**Sprawl** 

Percentage of Housing in the Core Place is Declining by -2.4%

**Population** 

2000-2010: Growing at 7.0% with the Core Place Declining at -6.0%

Average Age: 39.9 [+10.0% change from 2000 Census]

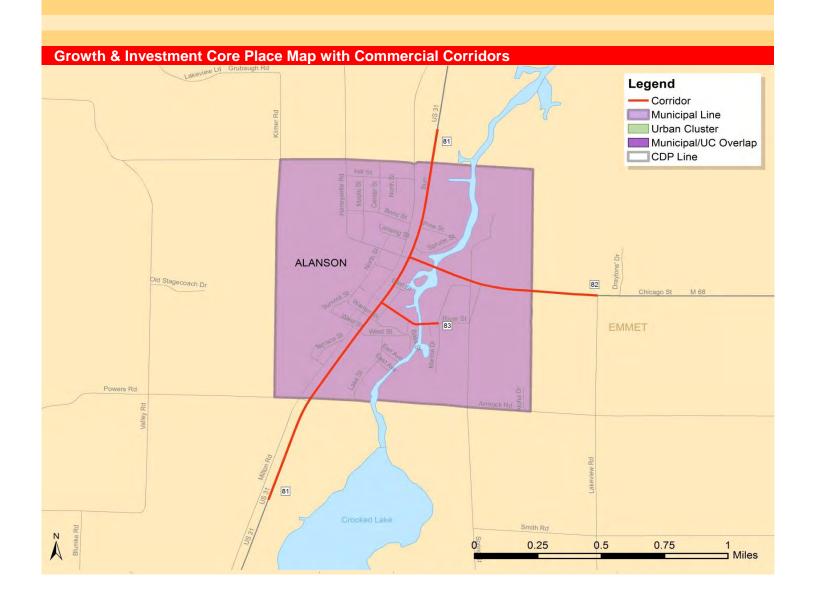
Demographic Shifts: Baby Boomers had the largest % gain (up 7.5%); Millennial Generation had the largest % loss (down -8.7%)

**Jobshed** 

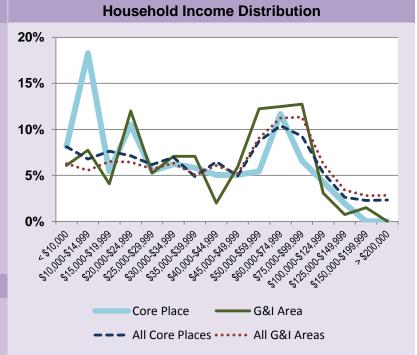
Worker Exporter – Resident Worker population exceeds the number of Jobs by 62%

G&I	12	Alanson	page 3
Gro	wth 8	Investment Readiness Assessment	Criteria Status
teria	1	Municipal Water	Yes
n Cri	2	Municipal Sewer	Yes
Initial Selection Criteria	3	Government Staff	No
al Sel	4	Master Plan Includes Higher Density Center	Yes
Initia	5	Zoning Ordinance Supporting Master Plan Density Center	Yes
	6	Core Place Population Increasing	No
Census Data	7	Housing Growth Rate Over 15% (2000-2010 Census)	Yes
	8	Core Place Housing Growth Increasing Faster than Surrounding Area	No
	9	Census Class (Rural, Urban Cluster, Urbanized Area, MSA)	Rural
0	10	Job Density Over 75 Jobs Per Acre in Commercial Corridors	No
	11	50% of Workers Living within 5 miles	No
	12	Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors	No
5	13	Zoning Allows Mixed-Use by Right in Commercial Corridors	No
Polic	14	Zoning Allows Multi-Family Residential by Right in Commercial Corridors	No
Zoning Policy	15	Building Height Limits Greater than 35 feet in Commercial Corridors	No
Ž	16	No On Site Parking Requirement in Central Business District	Qualified Yes
	17	Density Bonuses Offered for Contributions Towards Public Policy Goals	No
	18	4 Key Placemaking Elements in Corridors	No
king	19	Retail Hub	No
Placemaking	20	Educational Institutions (Trade Schools, Community Colleges, Universities)	No
Plac	21	Contain Medical Centers	No
	23	Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)	No
>	24	Community Identified Development Opportunities	Yes
Opportunity	25	Marketing Redevelopment & Infill Sites	No
loddC	22	Fixed Route Transit (Headways 15 mins or less)	No
	30	Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)	Yes > 10,000
ē	26	Additional Water Capacity	No
Infrastructure	27	Additional Sewer Capacity	Yes
ıfrastı	28	Broadband Service over 1 Gbps Available	No
트	29	Municipal WiFi	No

pag	e 4	Alanson				
Cor	nmercial Corridors					
ID	Name	Corridor Length (feet)	Population Density (People per acre)	Housing Density (Dwellings per acre)	Job Density (Jobs per acre)	Worker Density (Workers per acre)
81	Alanson US31 Corridor	9,227	2.0	1.0	0.3	0.6
82	Alanson M68 Corridor	4,120	2.1	1.4	0.6	0.6
83	Alanson River Street	1,362	2.6	1.6	0.9	0.8



# Median Household Income (2012 Dollars) Core Place \$32,981 Village of Alanson \$32,981 G&I Area \$41,635 Village of Alanson \$32,981 Littlefield Township \$41,635 Per Capita Annual Income (2012 Dollars) Core Place \$17,202 G&I Area \$19,452



	1	Alanson				<b>12</b> G&
Policy						
		Cor	e Place Unit	s of Governn	nent Interview	red
Data Source: Commercial Corridor Ir	nventory Interview	Village of	Alanson			
ear of Master Plan Approval		N	4			
Master Plan Update		NA	4			
Community Economic Strateg	Jy	Ye	:S			
Economic Strategy Coordinates v	vith Regional Strategy	Ye	s			
Growth & Investment Strategy	/	Ye	:S			
Identify Areas of Focus for Growt	h & Investment Strategy	Ye	s			
Active G&I Strategy Developmen	t Discussions	N/	4			
Planning Zoning Benchmarks		N	4			
evelopment Opportunities o	n Corridor	Ye	es e			
Redevelopment Priorities Identifie	ed	No	)			
Redevelopment Resources Ident	ified	No				
Market Potential Development Si	tes	No	)			
uides and Resources						
Publish Development Guide		No	)			
Zoning Orientation Package Prov	rided to Staff & Committees	Ye	s			
Zoning Training Funding		No				
community Marketing Strateg	ıy	Ye	es			
rea Plans						
Downtown Plan		Ye	s			
Downtown Development	Authority	DDA Esta 200				
Corridor Improvement Plan Corridor Improvement Al	uthority	No	)			
Zoning						
oning oning Authority ith Identified Commercial Corridors	Districts in Identified Com Corridors	mercial	Max Dwelling Density for Districts in Corridors	% of Districts in Corridors where Mixed Use is allowed by Right	% of Districts in Corridors where Multi-Family Use is allowed by Right	Max Building Height Allowed in Corridors

Cor	nmercial Corridor Placemaking Elements					
		Placemaki	emaking Elements Supporting Walkability			
ID	Name	Theaters & Entertainment Venues	Grocery Stores	Parks & Pocket Parks	Pedestrian Connections	Job / Population Ratio
81	Alanson US31 Corridor	No	No	Yes	Yes	0.163
82	Alanson M68 Corridor	No	Yes	Yes	Yes	0.271
83	Alanson River Street	No	No	Yes	Yes	0.361

page 8	Alar	nson		<b>12</b> G&I		
Talent Jobshed						
		Core Place	G&I Area			
Census Data		Village of Alanson	Village of Alanson, Littlefield Township			
Workers Living within Study Area		218	936			
Worker Density (per acre)		0.34	0.07			
Worker's Earnings						
% with earnings \$1250/month or less		25%	29%			
% with earnings \$1251/month to \$3333/mo	onth	50%	45%			
% with earnings greater than \$3333/month		25%	26%			
Jobs Located in Area		189	354			
Job Density (per acre)		0.30	0.03			
cod Belletty (per dore)		0.00	0.00			
Commute Data for Workers Employed in Core Place						
Commuting data for workers residing from 2 - 175 mi	iles from G&I Ar					
Commuting Workers		170	19% Commuting 5	Miles or Less		
<b>Total Daily One Way Commute for all Co</b>	mmuters					
Route Distance (Miles)		4,165				
Commute Time (Minutes)		5,251				
<b>Total Annual Commute for all Commuter</b>	rs					
Distance (Miles)		2,186,733				
Time (Hours)		45,948				
Annual Commuting Costs						
Total Fuel Cost		332,764				
Total Cost (IRS 2014 Standard Mileage Ra	ate)	\$1,224,570				
Average Per Worker Commute		Daily (2-Way)	Annual			
Distance (Miles)		49	12,863			
Time (Hours)		1.0 <b>\$27</b>	270 <b>\$7,203</b>			
Cost (IRS Standard Mileage Rate)		<b>\$21</b>	<b>Φ1,203</b>			
Retail Activity	ace Activity	G&I Area A	Activity Cou	nty Activity		
	52,174,577			150,773,091		
	66,642,882	\$26,75		359,281,470		
Leakage \$	4,468,305	\$17,22	26,676 (\$	891,491,621)		
Classification: Potail Potantial Experts	,					
Classification: Retail Potential Exporter		nt Area are making 64	10/ of their nurshages of	husinesses leasted		
Residents of the Alanson Growt outside the area.	ur & mvesume	in Area are making 64	o or unem punctiases at	Dusinesses iocaled		

Sales by Retail Store Type	Core Place Sales	Potential G&I Area Sales	Core Place Sales / Potential G&I Sales
Food & Beverage Stores	\$1,055,318	\$3,320,811	32%
Health/Personal Care Stores	\$0	\$2,150,218	0%
Clothing & Accessories Stores	\$0	\$1,268,135	0%
Sport/Hobby/Book/Music Stores	\$32,715	\$624,482	5%
General Merchandise Stores	\$0	\$5,573,932	0%
Food & Beverage Establishments	\$650,378	\$2,422,809	27%
E-Shopping/Mail-Order	\$0	\$1,339,692	0%

Corridor Street Name(s): Burr Avenue (US31) from South of Admirals Point Drive to south of Powers Road

Corridor Classification: Commercial
Unit(s) of Government: Village of Alanson

Length: 1.75 miles

Street Classification: Principal Arterial - Other 2013 Traffic Volume(AADT): 10,690 Source: MDOT

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

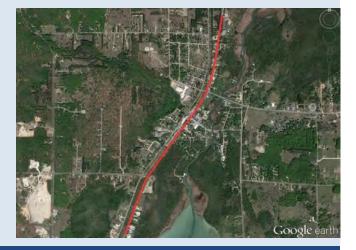
Parking Parallel

Transit Service: Straits Regional Ride - Flexible Route

Bike Lane: Yes
Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 46



#### **Corridor Overview**

The US31 Corridor is a major regional route connecting Petoskey and Harbor Springs area to the Pellston Regional Airport and Interstate 75. It consists of a Central Business District bordered on the north and south by a General Business District. The CBD provides neighborhood shopping, personal services and professional offices that are compatible with and of service to Village residential uses. Tourist services are also included as being in character with the District.



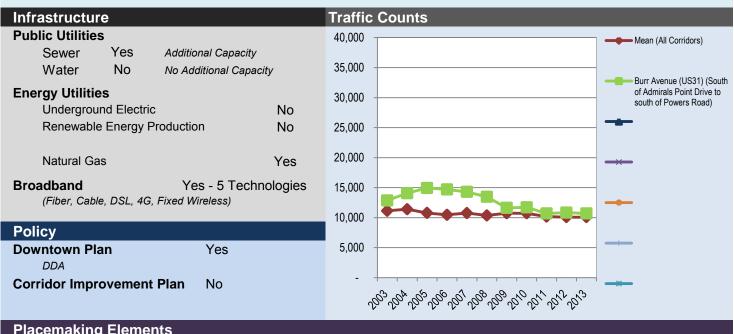
#### **Economic Development**

Community policies or activities assisting economic development (Village of Alanson)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
<b>Development Opportunities</b>	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	No

page 10	Alanson US31 Corridor				
Study Area Summary for 1/4 Mile Area S	Surrounding the Corridor				
	Corridor Segment	G&I Core Place	G&I Area		
Census Data	Alanson US31 Corridor	Village of Alanson	Alanson		
Total Population (2010)	1,289	738	2,978		
People per Acre	1.98	1.16	0.21		
People per Square Mile	1,268	745	137		
Total Housing (2010)	655	429	1,774		
Gross Neighborhood Density (per acre)	1.01	0.68	0.13		
Study Area Size (Land Cover)					
Acres	650.48	633.60	13,900.80		
Square Miles	1.02	0.99	21.72		
Workers Living within Study Area	385	218	936		
% with earnings \$1250/month or less	28%	25%	29%		
% with earnings \$1251/month to \$3333/month	48%	50%	45%		
% with earnings greater than \$3333/month	24%	25%	26%		
Jobs Located within Study Area	210	189	354		
Job Density (per acre)	0.32	0.30	0.03		

Zoning						
			% of Districts That	Max Residenti	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
B-1   B-2	0%	0%	0%	0.0	0.0	30 ft



Placemaking Elements			
Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	No
Alanson Railroad Depot		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): M66 from US31 to Lakeview Road

Corridor Classification: Commercial
Unit(s) of Government: Village of Alanson

Length: 0.78 miles
Street Classification: Minor Arterial

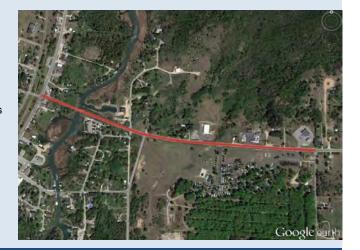
2013 Traffic Volume(AADT): 6,228 Source: MDOT

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking No Street Parking

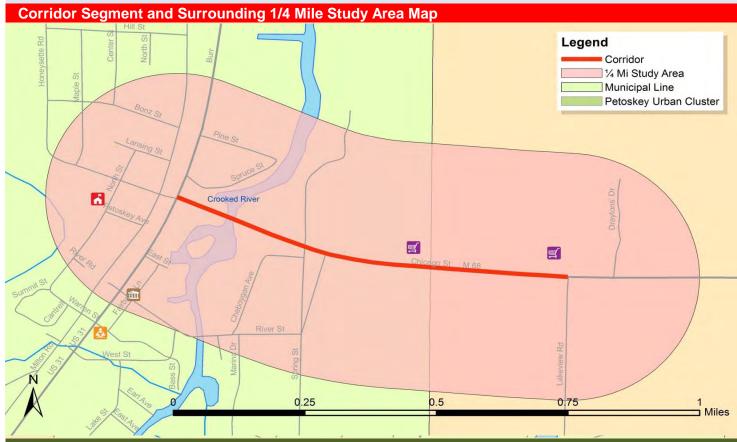
Transit Service: Straits Regional Ride - Flexible Route

Bike Lane: No
Entertainment Venues: No
Pedestrian Amenities: None
Walk Score 37



#### **Corridor Overview**

The M66 Corridor is a regional route providing a connection to Indian River and Interstate 75. It consists of a General Business District that is designed to provide sites for diversified business types served by local and transiting traffic.



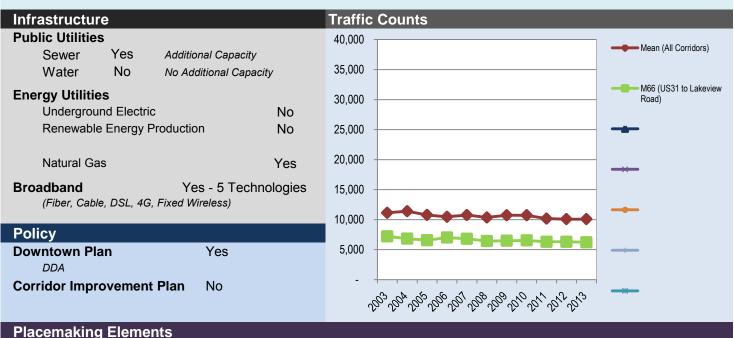
#### **Economic Development**

Community policies or activities assisting economic development (Village of Alanson)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	No

page 12	<b>82</b> cc		
Study Area Summary for 1/4 Mile Area	Surrounding the Corridor		
	Corridor Segment	G&I Core Place	G&I Area
Census Data	Alanson M68 Corridor	Village of Alanson	Alanson
Total Population (2010)	774	738	2,978
People per Acre	2.11	1.16	0.21
People per Square Mile	1,348	745	137
Total Housing (2010)	531	429	1,774
Gross Neighborhood Density (per acre)	1.45	0.68	0.13
Study Area Size (Land Cover)			
Acres	367.37	633.60	13,900.80
Square Miles	0.57	0.99	21.72
Workers Living within Study Area	235	218	936
% with earnings \$1250/month or less	27%	25%	29%
% with earnings \$1251/month to \$3333/mont	h 49%	50%	45%
% with earnings greater than \$3333/month	24%	25%	26%
Jobs Located within Study Area	210	189	354
Job Density (per acre)	0.57	0.30	0.03

Zoning						
			% of Districts That	Max Residenti	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
B-1   B-2	0%	0%	0%	0.0	0.0	30 ft



Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	No
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): River Street from US31 to Marina Drive

Corridor Classification: Commercial
Unit(s) of Government: Village of Alanson

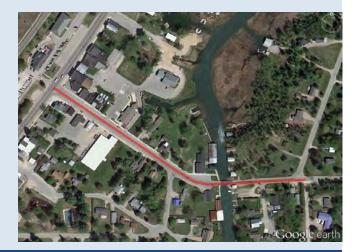
Length:0.26 milesStreet Classification:Local2013 Traffic Volume(AADT):NA

Number of Traffic Lanes: 2, Bi-Directional Traffic

Parking Parallel, Diagonal

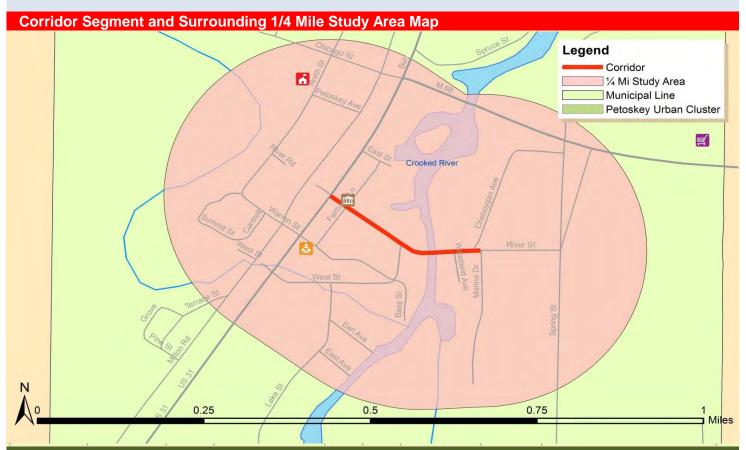
Transit Service: Straits Regional Ride - Flexible Route

Bike Lane: No
Entertainment Venues: No
Pedestrian Amenities: Sidewalks
Walk Score 54



#### **Corridor Overview**

The River Street Corridor is a primarily local route that lies in the Central Business District. The CBD provides neighborhood shopping, personal services and professional offices that are compatible with and of service to Village residential uses. Tourist services are also included as being in character with the District. River Street plays host to what is billed as the worlds shortest swing bridge over the Crooked River.



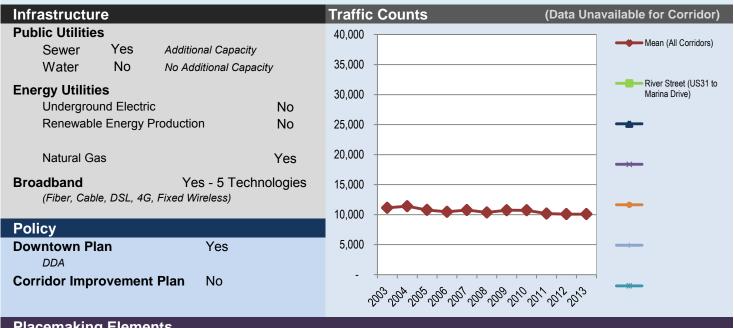
#### **Economic Development**

Community policies or activities assisting economic development (Village of Alanson)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	No

page 14	Alans	on River Street		<b>83</b> cc
Study Area Summary for 1/4	Mile Area Surrou	nding the Corridor		
		Corridor Segment	G&I Core Place	G&I Area
Census Data		Alanson River Street	Village of Alanson	Alanson
Total Population (2010)		524	738	2,978
People per Acre		2.57	1.16	0.21
People per Square Mile		1,642	745	137
Total Housing (2010)		323	429	1,774
Gross Neighborhood Density (pe	r acre)	1.58	0.68	0.13
Study Area Size (Land Cover)				
Acres		204.23	633.60	13,900.80
Square Miles		0.32	0.99	21.72
Workers Living within Study Are	a	155	218	936
% with earnings \$1250/month or	less	28%	25%	29%
% with earnings \$1251/month to	\$3333/month	44%	50%	45%
% with earnings greater than \$33	33/month	28%	25%	26%
Jobs Located within Study Area		189	189	354
Job Density (per acre)		0.93	0.30	0.03

Zoning						
			% of Districts That	Max Residenti	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
B-1	0%	0%	0%	0.0	0.0	30 ft



Placemaking Elements			
Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	No
Alanson Swing Bridge		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

# **Growth & Investment Area Unit(s) of Government:**

City of Harbor Springs, Little Traverse Township, West Traverse Township

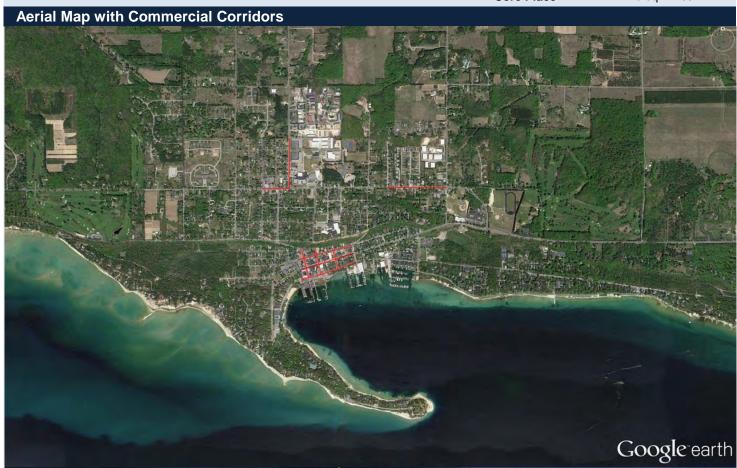
#### **Core Place Census Areas:**

City of Harbor Springs

County Census Class Land Area

Emmet Rural G&I Area 32.62 sq. miles

Core Place 1.29 sq. miles



# 3 Commercial Corridors Identified

Highest Corridor Traffic Count (Annual Average Daily Traffic)	4,751	2013 Data Year
Population Density Range of G&I Area Corridors (per acre)	2.0 - 3.5	Density calculations a derived from the
Gross Neighborhood Density Range of G&I Area Corridors (per acre)	2.7 - 3.1	area within a 1/4 mile of Corridor (Corridor Study Area)
Job Density Range of G&I Area Corridors (per acre)	0.6 - 3.4	(Someon Stady Alled)
Worker Density Range of G&I Area Corridors (per acre)	09-11	

#### Retail

Total Sales	\$25,488,740	Classification:	Retail Potential Exporter
-------------	--------------	-----------------	---------------------------

Potential Sales \$66,634,885

**Leakage** \$41,146,145 **Seasonal Housing:** 39.9% of G&I Area Housing

# **Sprawl**

Percentage of Housing in the Core Place is Declining by -2.9%

#### **Population**

2000-2010: Declining at -5.5% with the Core Place Declining at -23.8%

Average Age: 46.3 [+11.1% change from 2000 Census]

Demographic Shifts: Generation X had the largest % gain (up 7.2%); Millennial Generation had the largest % loss (down -24.2%)

#### Jobshed

Worker Importer - Number of Jobs exceeds Resident Worker population by 6%

G&I	13	Harbor Springs	page 17
	wth 8	& Investment Readiness Assessment	Criteria Status
teria	1	Municipal Water	Yes
n Cri	2	Municipal Sewer	Yes
ectio	3	Government Staff	Yes
Initial Selection Criteria	4	Master Plan Includes Higher Density Center	Yes
Initia	5	Zoning Ordinance Supporting Master Plan Density Center	Yes
	6	Core Place Population Increasing	No
æ	7	Housing Growth Rate Over 15% (2000-2010 Census)	No
s Data	8	Core Place Housing Growth Increasing Faster than Surrounding Area	No
Census Data	9	Census Class (Rural, Urban Cluster, Urbanized Area, MSA)	Rural
Ö	10	Job Density Over 75 Jobs Per Acre in Commercial Corridors	No
	11	50% of Workers Living within 5 miles	No
	12	Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors	Yes
<u>ج</u>	13	Zoning Allows Mixed-Use by Right in Commercial Corridors	Yes
Polic	14	Zoning Allows Multi-Family Residential by Right in Commercial Corridors	Yes
Zoning Policy	15	Building Height Limits Greater than 35 feet in Commercial Corridors	Yes
Zc	16	No On Site Parking Requirement in Central Business District	No
	17	Density Bonuses Offered for Contributions Towards Public Policy Goals	No
	18	4 Key Placemaking Elements in Corridors	No
king	19	Retail Hub	No
Placemaking	20	Educational Institutions (Trade Schools, Community Colleges, Universities)	No
Plac	21	Contain Medical Centers	No
	23	Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)	No
>	24	Community Identified Development Opportunities	No
Opportunity	25	Marketing Redevelopment & Infill Sites	No
oddo	22	Fixed Route Transit (Headways 15 mins or less)	No
	30	Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)	No
ē	26	Additional Water Capacity	Yes
Infrastructure	27	Additional Sewer Capacity	Yes
ıfrast	28	Broadband Service over 1 Gbps Available	No
_=	29	Municipal WiFi	Yes

pag	page 18 Harbor Springs					13 G&I
Cor	nmercial Corridors					
ID	Name	Corridor Length (feet)	Population Density (People per acre)	Housing Density (Dwellings per acre)	Job Density (Jobs per acre)	Worker Density (Workers per acre)
84	Harbor Springs CBD	6,346	2.7	3.5	3.4	0.9
85	Harbor Springs East Lake Street	1,520	3.1	2.1	0.6	1.1
86	Harbor Springs West Lake Street-Fairview Plaza	1,997	2.9	2.0	1.5	1.1



# **Personal Income**

	Ce	ensus-ACS Data (	(2008-2012 5 Year Summary File)			
Median Household Income (2012 Dollars)		012 Dollars)	Household Income Distribut			
	Core Place City of Harbor Springs  G&I Area City of Harbor Springs Little Traverse Township West Traverse Township	\$42,019 \$42,019 \$42,019 \$56,779 \$88,375	10%  5%  6%  6%  6%  6%  6%  6%  6%  6%  6			
Per Capita Annual Income (2012 Dollars)		12 Dollars)	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2			
	Core Place G&I Area	\$34,286 \$41,161	Core Place —— G&I Area  —— All Core Places —— All G&I Areas			

	Harbor	Springs	5			13 G&I
Policy						
Data Source: Commercial Corridor Inventory Interview		Core	Place Unit	s of Governn	nent Interview	red
		City of Ha Springs				
Year of Master Plan Approval		2007				
Master Plan Update		2014				
Community Economic Strateg	Jy	Yes				
Economic Strategy Coordinates v	vith Regional Strategy	Yes				
Growth & Investment Strategy		Yes				
Identify Areas of Focus for Growt		No				
Active G&I Strategy Developmen	t Discussions	NA				
Planning Zoning Benchmarks		Yes				
<b>Development Opportunities o</b>		No				
Redevelopment Priorities Identifie		No				
Redevelopment Resources Identi		NA				
Market Potential Development Si	tes	No				
Guides and Resources						
Publish Development Guide		No				
Zoning Orientation Package Prov	ided to Staff & Committees	Yes				
Zoning Training Funding		Yes				
Community Marketing Strateg	у	Yes				
Area Plans						
Downtown Plan Downtown Development	Authority	Yes DDA Establ	ished			
Corridor Improvement Plan Corridor Improvement At	uthority	No				
Zoning						
	Districts in Identified Commerce		Max Dwelling Density for Districts in	% of Districts in Corridors where Mixed Use is	% of Districts in Corridors where Multi-Family Use is	Max Building Height Allowed in Corridors
Zoning Authority with Identified Commercial Corridors	Corruors		Corridors	allowed by Right	allowed by Right	

Commercial Corridor Placemaking Elements							
	Name	Placemaking Elements Supporting Walkability					
ID		Theaters & Entertainment Venues	Grocery Stores	Parks & Pocket Parks	Pedestrian Connections	Job / Population Ratio	
84	Harbor Springs CBD	No	No	Yes	Yes	1.250	
85	Harbor Springs East Lake Street	No	No	No	No	0.182	
86	Harbor Springs West Lake Street-Fairview Plaza	No	Yes	No	Yes	0.525	

•	Hard on	O		42.00
page 22	Harbor	Springs		13 G&
Talent Jobshed		Core Place	G&I Area	
Census Data		City of Harbor Springs	City of Harbor Springs, West Traverse Township, Little Traverse Township	
Workers Living within Study Area Worker Density (per acre)		<b>406</b> 0.49	<b>1,772</b> 0.08	
Worker's Earnings				
% with earnings \$1250/month or less		29%	29%	
% with earnings \$1251/month to \$333	3/month	42%	38%	
% with earnings greater than \$3333/m	onth	29%	32%	
Jobs Located in Area		748	1,885	
Job Density (per acre)		0.91	0.09	
cos Beneity (per doro)		0.0 .	0.00	
Commute Data for Workers Employe				
Commuting data for workers residing from 2 - 1	75 miles from G&I Ar		000/ 0	
Commuting Workers		611	26% Commuting 5 M	iles or Less
Total Daily One Way Commute for al	I Commuters			
Route Distance (Miles)		18,330		
Commute Time (Minutes)		23,812		
Total Annual Commute for all Comm	nuters	0.000.544		
Distance (Miles)		9,623,511 <b>208,353</b>		
Time (Hours)		200,333		
Annual Commuting Costs  Total Fuel Cost		1,464,447		
Total Cost (IRS 2014 Standard Mileag	ie Rate)	\$5,389,166		
Average Per Worker Commute	, 5 1 10.10)	Daily (2-Way)	Annual	
Distance (Miles)		60	15,750	
Time (Hours)		1.3	341	
Cost (IRS Standard Mileage Rate)		\$34	\$8,820	
Retail Activity				
Со	re Place Activity	G&I Area A	Activity Count	y Activity
Total Retail Sales	\$19,015,377	\$25,48	<b>38,740</b> \$45	0,773,091
Total Potential Retail Sales	\$14,981,714	\$66,63	<b>34,885</b> \$35	9,281,470
Leakage	(\$4,033,663)	\$41,14	<b>46,145</b> (\$9	1,491,621)
Classification: Retail Potential Exp	orter			

Residents of the Harbor Springs Growth & Investment Area are making 62% of their purchases at businesses located outside the area.

Sales by Retail Store Type	Core Place Sales	Potential G&I Area Sales	Core Place Sales / Potential G&I Sales
Food & Beverage Stores	\$3,176,587	\$8,376,766	38%
Health/Personal Care Stores	\$903,861	\$5,716,403	16%
Clothing & Accessories Stores	\$1,300,617	\$2,929,376	44%
Sport/Hobby/Book/Music Stores	\$662,962	\$1,524,695	43%
General Merchandise Stores	\$820,964	\$13,824,758	6%
Food & Beverage Establishments	\$4,781,714	\$5,689,142	84%
E-Shopping/Mail-Order	\$0	\$3,437,786	0%

Corridor Street Name(s): State Street (M119) from North of 3rd Street to Bay Street; Main Street (M119) from West of State Street to Judd Street; 3rd Street from

West of State Street to Judd Street; South Spring Street from North End to Bay Street; Gardner Street from 3rd Street to Bay Street;

Bay Street from West of State Street to Judd Street

Corridor Classification: Central Business District
Unit(s) of Government: City of Harbor Springs

Length: 1.20 miles

Street Classification: Major Collector, Local

2013 Traffic Volume(AADT): 4,751 Source: MDOT, N/A

Number of Traffic Lanes: 1-2, Sections with Bi-Directional or One Way

Traffic

Parking Parallel

Transit Service: Friendship Centers of Emmet County - Senior Tran

Bike Lane: No Entertainment Venues: No

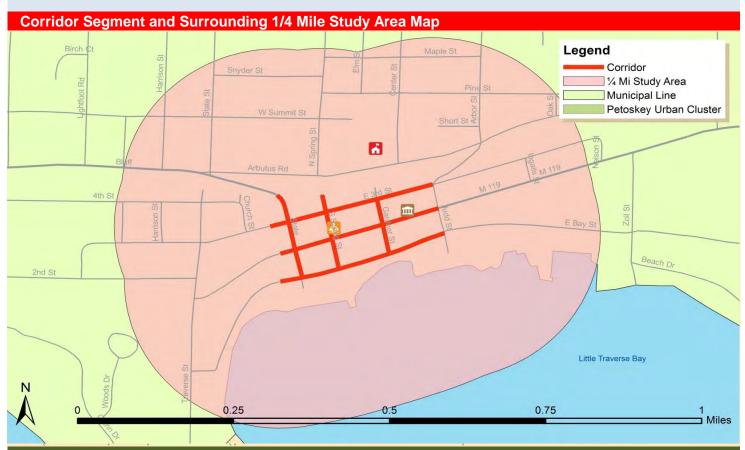
Pedestrian Amenities: Sidewalks, Crosswalks, Mid-Block Crosswalks

Walk Score 88



#### **Corridor Overview**

The downtown business district is compact and walkable. Businesses downtown include convenience uses which cater to the daily needs of the local population, and specialty boutique shops that attract the resort population. While a balanced mixture of uses exists, a majority of downtown uses serve summer visitors. The majority of new building in this area will come in the form of remodels or redevelopment of a site.



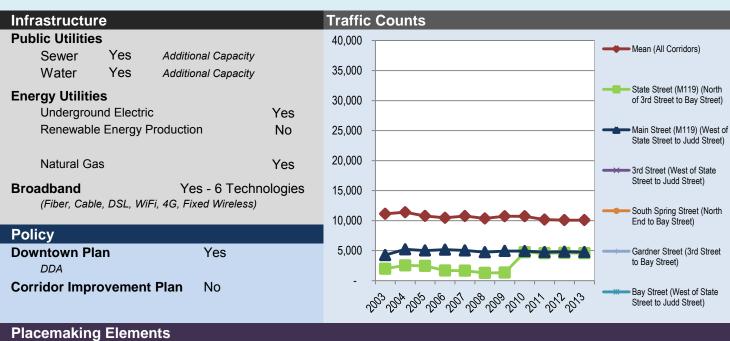
#### **Economic Development**

Community policies or activities assisting economic development (City of Harbor Springs)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	No	Community Marketing Strategy	Yes
Development Opportunities	No	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	No

page 24	24 Harbor Springs CBD			
Study Area Summary for 1/4 Mile Area S	urrounding the Corridor			
	Corridor Segment	G&I Core Place	G&I Area	
Census Data	Harbor Springs CBD	City of Harbor Springs	Harbor Springs	
Total Population (2010)	537	1,194	5,180	
People per Acre	2.71	1.45	0.25	
People per Square Mile	1,735	926	159	
Total Housing (2010)	697	1,122	4,286	
Gross Neighborhood Density (per acre)	3.52	1.36	0.21	
Study Area Size (Land Cover)				
Acres	198.14	825.60	20,876.80	
Square Miles	0.31	1.29	32.62	
Workers Living within Study Area	180	406	1,772	
% with earnings \$1250/month or less	29%	29%	29%	
% with earnings \$1251/month to \$3333/month	44%	42%	38%	
% with earnings greater than \$3333/month	27%	29%	32%	
Jobs Located within Study Area	671	748	1,885	
Job Density (per acre)	3.39	0.91	0.09	

Zoning						
			% of Districts That	Max Resident	ial Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
R-2   TR   CBD   B-1   B-2   WF	67%	33%	33%	8.7	44.6	35 ft



Placemaking Elements			
Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	No
Historic City Hall, Shay Complex, Chief Andrew		Public Art Installations	No
Blackbird House, Holy Childhood of Jesus Chur	rch,	Wayfinding	No
		Pedestrian Connections	Yes

Corridor Street Name(s): East Lake Street from Ottawa Street to Hoyt Street

Corridor Classification: Commercial

Unit(s) of Government: City of Harbor Springs

Length: 0.29 miles
Street Classification: Major Collector

2013 Traffic Volume(AADT): NA

Number of Traffic Lanes: 2, Bi-Directional Traffic

Parking No Street Parking

Transit Service: Friendship Centers of Emmet County - Senior Trans

Bike Lane: No Entertainment Venues: No

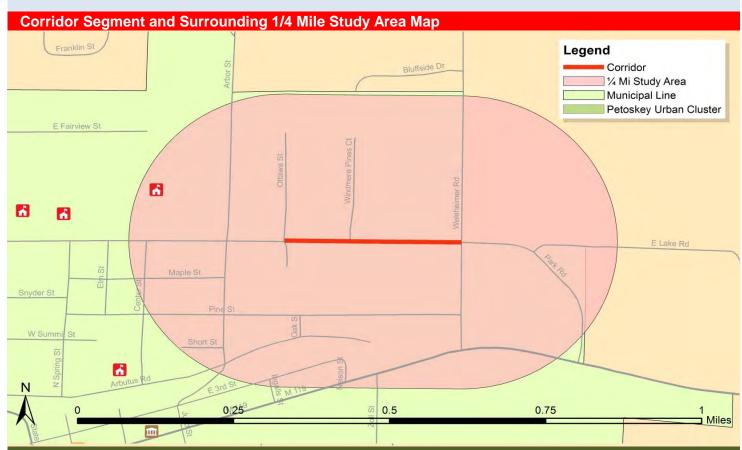
Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 52



# **Corridor Overview**

The East Lake Street Corridor is a local route and mainly consists of office buildings of a scale similar to the surround residential uses.



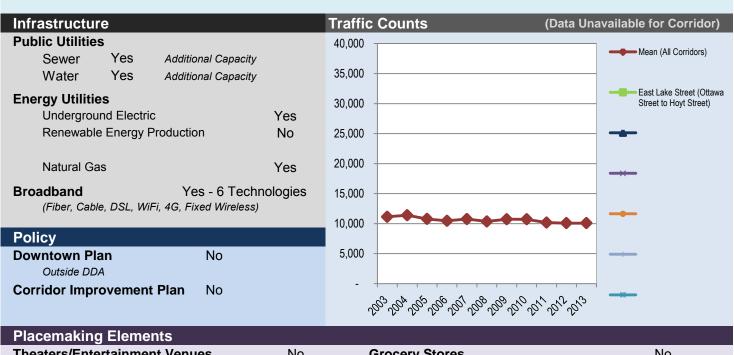
# **Economic Development**

Community policies or activities assisting economic development (City of Harbor Springs)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	No	Community Marketing Strategy	Yes
<b>Development Opportunities</b>	No	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	No

page 26	ge 26 Harbor Springs East Lake Street				
Study Area Summary for 1/4 Mile	Area Surrounding the Corridor				
	Corridor Segment	G&I Core Place	G&I Area		
Census Data	Harbor Springs East Lake Street	City of Harbor Springs	Harbor Springs		
Total Population (2010)	675	1,194	5,180		
People per Acre	3.12	1.45	0.25		
People per Square Mile	1,999	926	159		
Total Housing (2010)	454	1,122	4,286		
Gross Neighborhood Density (per acre	2.10	1.36	0.21		
Study Area Size (Land Cover)					
Acres	216.13	825.60	20,876.80		
Square Miles	0.34	1.29	32.62		
Workers Living within Study Area	240	406	1,772		
% with earnings \$1250/month or less	29%	29%	29%		
% with earnings \$1251/month to \$3333	/month 46%	42%	38%		
% with earnings greater than \$3333/mo	onth 25%	29%	32%		
Jobs Located within Study Area	123	748	1,885		
Job Density (per acre)	0.57	0.91	0.09		

Zoning						
			% of Districts That	Max Residenti	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
AR   R-1C   MHP   R/O/S	100%	25%	25%	3.6	14.1	35 ft



Theaters/Entertainment Venues	No	Grocery Stores	No
ineaters/Lintertainment venues	NO	•	
		Restaurants	No
		Sidewalk Cafés	No
		Parks	No
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	No

Corridor Street Name(s): South State Street/East Lake Street/West Lake Road from North of Fairview Street to Harrison Street

Corridor Classification: Commercial

Unit(s) of Government: City of Harbor Springs

Length: 0.38 miles
Street Classification: Major Collector

2013 Traffic Volume(AADT): NA

Number of Traffic Lanes: 2, Bi-Directional Traffic

Parking No Street Parking

Transit Service: Friendship Centers of Emmet County - Senior Tran

Bike Lane: No Entertainment Venues: No

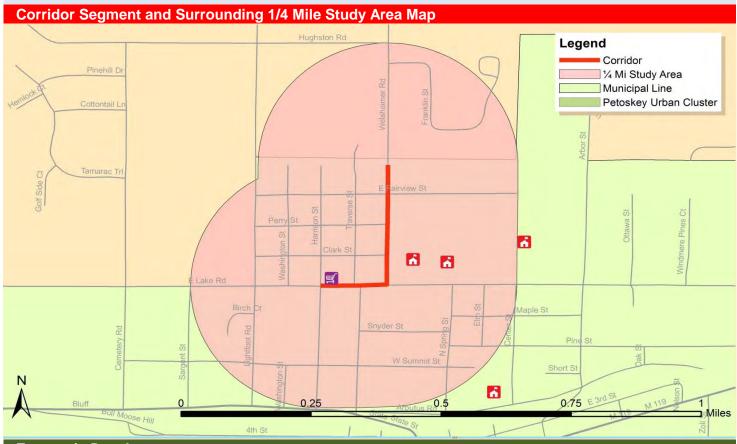
Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 66



#### **Corridor Overview**

The West Lake Street-Fairview Plaza Corridor is a local route and mainly consists of a strip center development and other commercial uses primarily serving the local population.



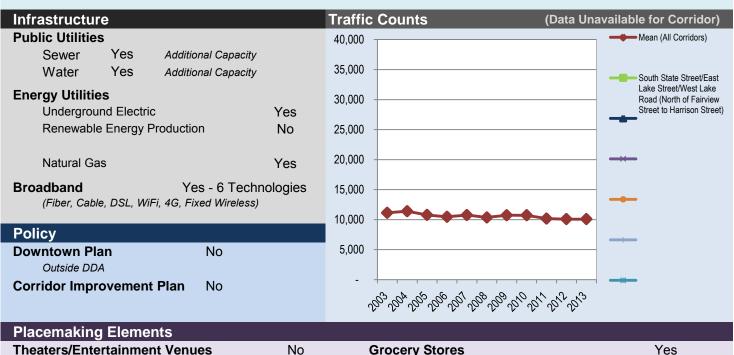
# **Economic Development**

Community policies or activities assisting economic development (City of Harbor Springs)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	No	Community Marketing Strategy	Yes
<b>Development Opportunities</b>	No	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	No

page 28 Harbor Springs West I	<b>86</b> cc		
Study Area Summary for 1/4 Mile Area Surroundi	ng the Corridor		
	Corridor Segment	G&I Core Place	G&I Area
Census Data	Harbor Springs West Lake Street- Fairview Plaza	City of Harbor Springs	Harbor Springs
Total Population (2010)	693	1,194	5,180
People per Acre	2.92	1.45	0.25
People per Square Mile	1,870	926	159
Total Housing (2010)	474	1,122	4,286
Gross Neighborhood Density (per acre)	2.00	1.36	0.21
Study Area Size (Land Cover)			
Acres	237.22	825.60	20,876.80
Square Miles	0.37	1.29	32.62
Workers Living within Study Area	255	406	1,772
% with earnings \$1250/month or less	29%	29%	29%
% with earnings \$1251/month to \$3333/month	34%	42%	38%
% with earnings greater than \$3333/month	37%	29%	32%
Jobs Located within Study Area	364	748	1,885
Job Density (per acre)	1.53	0.91	0.09

Zoning						
			% of Districts That	Max Resident	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
R-1C   C   B-2	33%	0%	0%	6.7	6.7	40 ft



Placemaking Elements			
Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	No
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

# **Growth & Investment Area Unit(s) of Government:**

Village of Mackinaw City, Mackinaw Township, Wawatam Township

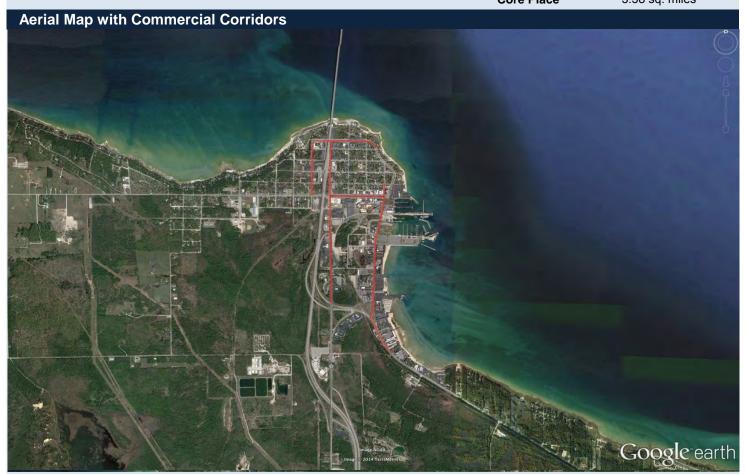
#### **Core Place Census Areas:**

Village of Mackinaw City

Counties Census Class Land Area

Emmet & Cheboygan Rural G&I Area 27.14 sq. miles

Core Place 3.38 sq. miles



#### 4 Commercial Corridors Identified

Highest Corridor Traffic Count (Annual Average Daily Traffic)

Population Density Range of G&I Area Corridors (per acre)

Gross Neighborhood Density Range of G&I Area Corridors (per acre)

Job Density Range of G&I Area Corridors (per acre)

Worker Density Range of G&I Area Corridors (per acre)

O.8 - 2.0

Density calculations a derived from the area within a 1/4 mile of Corridor (Corridor Study Area)

O.3 - 2.9

Worker Density Range of G&I Area Corridors (per acre)

O.2 - 0.5

#### Retail

**Total Sales** \$19,623,291 **Classification:** Local Retail Hub

Potential Sales \$13,710,952

**Leakage** (\$5,912,339) **Seasonal Housing:** 34.3% of G&I Area Housing

# **Sprawl**

Percentage of Housing in the Core Place is Growing by 2.9%

# **Population**

2000-2010: Declining at -6.3% with the Core Place Declining at -6.2%

Average Age: 47.5 [+8.9% change from 2000 Census]

Demographic Shifts: Generation X had the largest % gain (up 16.8%); Millennial Generation had the largest % loss (down -29.7%)

#### **Jobshed**

Worker Importer – Number of Jobs exceeds Resident Worker population by 108%

G&I	14	Mackinaw City	page 31
	wth 8	k Investment Readiness Assessment	Criteria Status
teria	1	Municipal Water	Yes
n Cri	2	Municipal Sewer	Yes
ectio	3	Government Staff	Yes
Initial Selection Criteria	4	Master Plan Includes Higher Density Center	Yes
Initia	5	Zoning Ordinance Supporting Master Plan Density Center	Yes
	6	Core Place Population Increasing	No
Ø	7	Housing Growth Rate Over 15% (2000-2010 Census)	Yes
s Data	8	Core Place Housing Growth Increasing Faster than Surrounding Area	Yes
Census Data	9	Census Class (Rural, Urban Cluster, Urbanized Area, MSA)	Rural
Ö	10	Job Density Over 75 Jobs Per Acre in Commercial Corridors	No
	11	50% of Workers Living within 5 miles	No
	12	Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors	No
<u>ج</u>	13	Zoning Allows Mixed-Use by Right in Commercial Corridors	Yes
Polic	14	Zoning Allows Multi-Family Residential by Right in Commercial Corridors	Yes
Zoning Policy	15	Building Height Limits Greater than 35 feet in Commercial Corridors	Yes
Zc	16	No On Site Parking Requirement in Central Business District	Qualified Yes
	17	Density Bonuses Offered for Contributions Towards Public Policy Goals	Yes
	18	4 Key Placemaking Elements in Corridors	Yes
king	19	Retail Hub	Yes - Local
Placemaking	20	Educational Institutions (Trade Schools, Community Colleges, Universities)	No
Plac	21	Contain Medical Centers	No
	23	Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)	No
>	24	Community Identified Development Opportunities	Yes
Opportunity	25	Marketing Redevelopment & Infill Sites	Yes
ppor	22	Fixed Route Transit (Headways 15 mins or less)	No
	30	Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)	No
ē	26	Additional Water Capacity	Yes
Infrastructure	27	Additional Sewer Capacity	Yes
frastr	28	Broadband Service over 1 Gbps Available	No
드	29	Municipal WiFi	Yes

pag	je 32	Mackinaw Ci	Mackinaw City				
Cor	nmercial Corridors						
ID	Name	Corridor Length (feet)	Population Density (People per acre)	Housing Density (Dwellings per acre)	Job Density (Jobs per acre)	Worker Density (Workers per acre)	
87	Mackinaw City Louvigny Street	1,787	1.9	2.0	2.9	0.5	
88	Mackinaw City Nicolet Street	5,422	1.1	1.3	1.4	0.3	
89	Mackinaw City South Huron Avenue	5,475	0.7	0.8	0.3	0.2	
90	Mackinaw City CBD	4,459	1.4	1.5	2.2	0.4	



# Census-ACS Data (2008-2012 5 Year Summary File)

Gerisus-AGS Data (2006-2012 3 Tear Summary File)				
Median Household Inco	me (2012 Dollars)	Household Income Distribution		
Core Place Village of Mackinaw City  G&I Area Village of Mackinaw City Mackinaw Township Wawatam Township	\$40,972 \$40,972 \$40,972 \$50,750 \$48,958	15%		
Per Capita Annual Inco	· ,	g, g,		
Core Place	\$25,838	Core Place ——G&I Area		
G&I Area	\$28,284	■■■ All Core Places •••••• All G&I Areas		

	Mack Mack	inaw Cit	y			14 G8
Policy						
		Core	Place Unit	s of Governn	nent Interview	red 💮
Data Source: Commercial Corridor In	ventory Interview	Village Mackinav				
Year of Master Plan Approval		201	1			
Master Plan Update		NA				
Community Economic Strateg	•	Yes				
Economic Strategy Coordinates v	vith Regional Strategy	Yes				
Growth & Investment Strategy		Yes				
Identify Areas of Focus for Growt		Yes				
Active G&I Strategy Developmen	t Discussions	NA				
Planning Zoning Benchmarks		Yes				
Development Opportunities o		Yes				
Redevelopment Priorities Identifie		Yes				
Redevelopment Resources Identi		Yes				
Market Potential Development Sites		Yes				
Guides and Resources						
Publish Development Guide		Yes				
Zoning Orientation Package Prov	ided to Staff & Committees	Yes				
Zoning Training Funding		Yes				
Community Marketing Strateg	у	Yes	3			
Area Plans						
Downtown Plan Downtown Development	Authority	Yes DDA Estat 1985	olished			
Corridor Improvement Plan Corridor Improvement Au	uthority	No				
Zoning			Max Dwelling	% of Districts in	% of Districts in	Max Building
					Corridors where	Max Bullullig
Coning Authority vith Identified Commercial Corridors	Districts in Identified Comme Corridors	ercial	Density for Districts in Corridors	Corridors where Mixed Use is allowed by Right	Multi-Family Use is allowed by Right	Height Allower in Corridors

Cor	Commercial Corridor Placemaking Elements					
		Placemaki	ing Elements	<b>Supporting V</b>	Valkability	
ID	Name	Theaters & Entertainment Venues	Grocery Stores	Parks & Pocket Parks	Pedestrian Connections	Job / Population Ratio
87	Mackinaw City Louvigny Street	No	No	Yes	Yes	1.552
88	Mackinaw City Nicolet Street	No	Yes	Yes	Yes	1.255
89	Mackinaw City South Huron Avenue	Yes	No	Yes	Yes	0.439
90	Mackinaw City CBD	Yes	Yes	Yes	Yes	1.523

page 36	Mackin	aw City		14 G&
Talent Jobshed	Maokin	an only		1-7
		Core Place	G&I Area	
Census Data		Village of Mackinaw City	Village of Mackinaw City, Wawatam Township, Mackinaw Township	
Workers Living within Study Area		216	321	•
Worker Density (per acre)		0.10	0.02	
Worker's Earnings				
% with earnings \$1250/month or less		30%	32%	
% with earnings \$1251/month to \$3333/i	month	44%	40%	
% with earnings greater than \$3333/mor	nth	26%	28%	
Jobs Located in Area		659	667	
Job Density (per acre)		0.30	0.04	
Commute Data for Workers Employed Commuting data for workers residing from 2 - 175				
Commuting Workers	Times from Sur A	413	6% Commuting 5	Miles or Less
Total Daily One Way Commute for all 0	Commuters			
Route Distance (Miles)	Johnnaters	13,098		
Commute Time (Minutes)		16,153		
Total Annual Commute for all Commu	tore	. 5, . 5 5		
	lei S	6,876,432		
Distance (Miles) Time (Hours)		141,343		
		141,545		
Annual Commuting Costs		4.040.444		
Total Fuel Cost	Doto)	1,046,414		
Total Cost (IRS 2014 Standard Mileage	Rale)	\$3,850,802		
Average Per Worker Commute		Daily (2-Way)	Annual	
Distance (Miles)		63	16,650	
Time (Hours)		1.3 <b>\$36</b>	342 <b>\$9,324</b>	
Cost (IRS Standard Mileage Rate)		φ30	<b>49,324</b>	
Retail Activity  Core	Place Activity	G&I Area A	ctivity <u>Cou</u>	nty Activity
	\$18,583,432	\$19,62		50,773,091
Total Potential Retail Sales	\$9,660,807	\$13,71		59,281,470
Leakage	(\$8,922,625)			91,491,621)
Classification, Loss Potail Link				
Classification: Local Retail Hub  Mackinaw City area business				

Potential G&I Area Core Place Sales / Sales by Retail Store Type **Core Place Sales** Sales **Potential G&I Sales** \$1,736,068 168% Food & Beverage Stores \$2,916,208 0% Health/Personal Care Stores \$0 \$1,178,086 \$1,848,556 321% Clothing & Accessories Stores \$576,492 124% Sport/Hobby/Book/Music Stores \$391,131 \$316,054 General Merchandise Stores \$0 \$2,854,683 0% Food & Beverage Establishments \$7,340,261 \$1,132,653 648% E-Shopping/Mail-Order \$0 \$705,909 0%

surrounding area.

Corridor Street Name(s): Louvigny Street from Straits Avenue to W Central Avenue

Corridor Classification: Commercial

Unit(s) of Government: Village of Mackinaw City

Length: 0.34 miles
Street Classification: Major Collector

2013 Traffic Volume(AADT): NA

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking No Street Parking

Transit Service: Straits Regional Ride - Flexible Route

Bike Lane: No Entertainment Venues: No

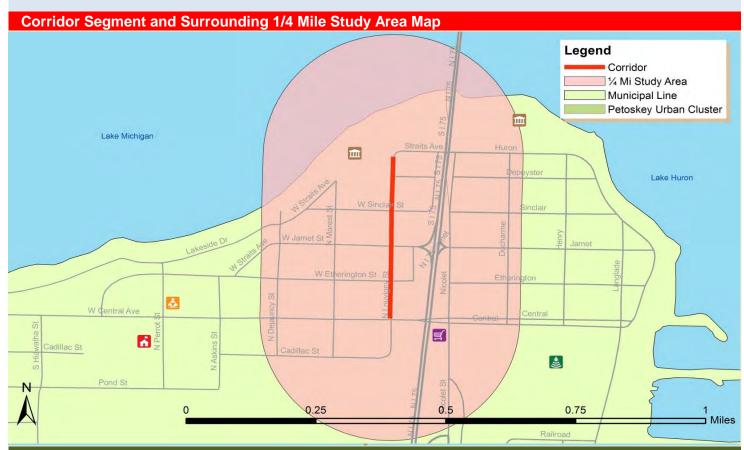
Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 71



#### **Corridor Overview**

Running immediately to the east of and parallel to Interstate 75 is the Louvigny Street Corridor. It is contains lodging, restaurant and other commercial activity. The Mackinaw Bridge and Fort Michilimackinac are located at the north end of the corridor.



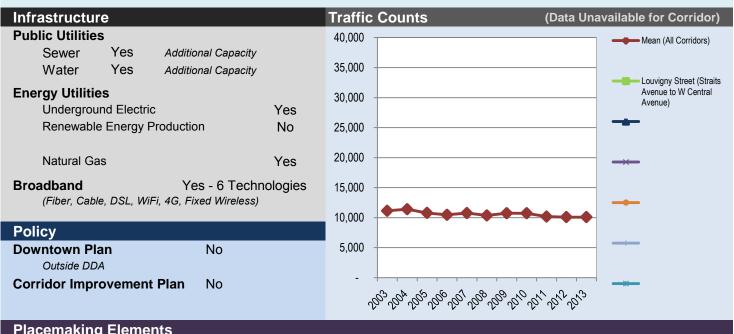
# **Economic Development**

Community policies or activities assisting economic development (Village of Mackinaw City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

page 38 Mackinaw	v City Louvigny Street		<b>87</b> cc
Study Area Summary for 1/4 Mile Area Surro	unding the Corridor		
	Corridor Segment	G&I Core Place	G&I Area
Census Data	Mackinaw City Louvigny Street	Village of Mackinaw City	Mackinaw City
Total Population (2010)	377	806	1,200
People per Acre	1.87	0.37	0.07
People per Square Mile	1,199	238	44
Total Housing (2010)	393	814	1,233
Gross Neighborhood Density (per acre)	1.95	0.38	0.07
Study Area Size (Land Cover)			
Acres	201.31	2,163.20	17,369.60
Square Miles	0.31	3.38	27.14
Workers Living within Study Area	109	216	321
% with earnings \$1250/month or less	25%	30%	32%
% with earnings \$1251/month to \$3333/month	46%	44%	40%
% with earnings greater than \$3333/month	29%	26%	28%
Jobs Located within Study Area	585	659	667
Job Density (per acre)	2.91	0.30	0.04

Zoning						
			% of Districts That	Max Residenti	al Site Density	Max Building
District(s)	Allow Residential Use	Residential Allow Multi-Family Use by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
R1   B1   B4	100%	33%	33%	5.8	14.5	45 ft



Placemaking Elements			
Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
Colonial Michilimackinac		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): Nicolet Street from N Huron Avenue to US23

Corridor Classification: Commercial

Unit(s) of Government: Village of Mackinaw City

Length: 1.03 miles
Street Classification: Major Collector

2013 Traffic Volume(AADT): NA

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking Parallel

Transit Service: Straits Regional Ride - Flexible Route

Bike Lane: No Entertainment Venues: No

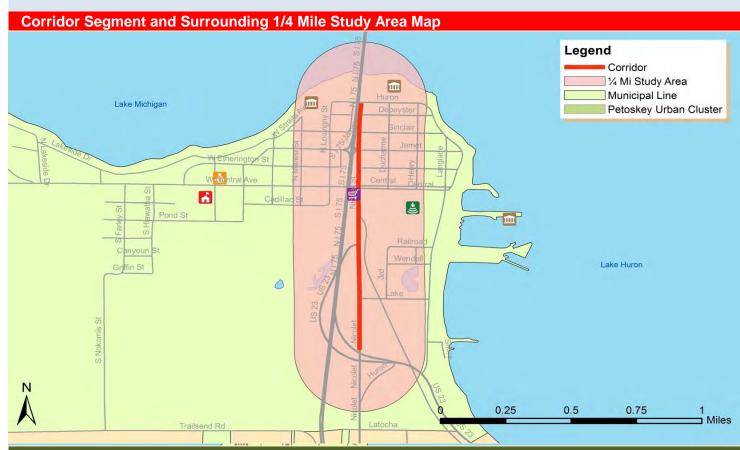
Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 57



#### **Corridor Overview**

Running immediately to the east of and parallel to Interstate 75 is the Nicolet Street Corridor. It is contains tourism focused lodging, restaurant and other commercial activities. It is bounded on the north by the Mackinaw Bridge and Old Mackinac Point Light and on the south by US-23.



# **Economic Development**

Community policies or activities assisting economic development (Village of Mackinaw City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
<b>Development Opportunities</b>	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

page 40 Ma	ckinaw City Nicolet Street		<b>88</b> cc
Study Area Summary for 1/4 Mile Area S	Surrounding the Corridor		
	Corridor Segment	G&I Core Place	G&I Area
Census Data	Mackinaw City Nicolet Street	Village of Mackinaw City	Mackinaw City
Total Population (2010)	474	806	1,200
People per Acre	1.11	0.37	0.07
People per Square Mile	708	238	44
Total Housing (2010)	541	814	1,233
Gross Neighborhood Density (per acre)	1.26	0.38	0.07
Study Area Size (Land Cover)			
Acres	428.29	2,163.20	17,369.60
Square Miles	0.67	3.38	27.14
Workers Living within Study Area	132	216	321
% with earnings \$1250/month or less	28%	30%	32%
% with earnings \$1251/month to \$3333/month	47%	44%	40%
% with earnings greater than \$3333/month	25%	26%	28%
Jobs Located within Study Area	595	659	667
Job Density (per acre)	1.39	0.30	0.04

Zoning						
			% of Districts That	Max Residenti	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
B1   B3   BC	100%	67%	67%	14.5	14.5	45 ft



Placemaking Elements			
Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
Mackinaw Bridge		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

South Huron Avenue/US23 from E Central Avenue to S Village Limits Corridor Street Name(s):

Commercial **Corridor Classification:** 

Unit(s) of Government: Village of Mackinaw City

1.04 miles Length:

Principal Arterial - Other **Street Classification:** 2013 Traffic Volume(AADT): 6,263 Source: MDOT

2, Bi-Directional Traffic with Turn/Passing Lanes **Number of Traffic Lanes:** 

**Parking** 

**Transit Service:** Straits Regional Ride - Flexible Route

Bike Lane: No **Entertainment Venues:** Yes

**Pedestrian Amenities:** Sidewalks, Crosswalks

**Walk Score** 58



#### **Corridor Overview**

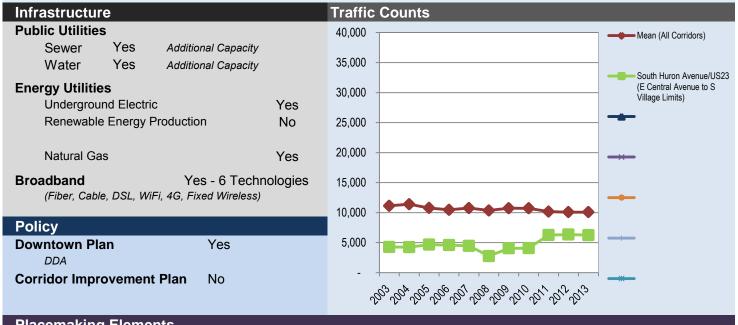
The South Huron Avenue Corridor for its entire length within Mackinaw City is a gateway corridor, providing a first view of Mackinaw City for many visitors who have taken either the first exit from I-75 or are arriving on US 23 from Cheboygan. It contains a large portion of the Village's tourism lodging and dock facilities for Mackinaw Island ferry operations as well as marinas.



Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

	page 42 Mackinaw City South Huron Avenue				
Study Area Summary for 1/4 Mile Area Surroundin	g the Corridor				
	Corridor Segment	G&I Core Place	G&I Area		
Census Data	Mackinaw City South Huron Avenue	Village of Mackinaw City	Mackinaw City		
Total Population (2010)	244	806	1,200		
People per Acre	0.68	0.37	0.07		
People per Square Mile	434	238	44		
Total Housing (2010)	273	814	1,233		
Gross Neighborhood Density (per acre)	0.76	0.38	0.07		
Study Area Size (Land Cover)					
Acres	359.76	2,163.20	17,369.60		
Square Miles	0.56	3.38	27.14		
Workers Living within Study Area	55	216	321		
% with earnings \$1250/month or less	22%	30%	32%		
% with earnings \$1251/month to \$3333/month	49%	44%	40%		
% with earnings greater than \$3333/month	29%	26%	28%		
Jobs Located within Study Area	107	659	667		
Job Density (per acre)	0.30	0.30	0.04		

Zoning						
			% of Districts That	Max Resident	ial Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
B2   B3   B4   BC   MC	80%	20%	20%	6.7	14.5	45 ft



Placemaking Elements			
Theaters/Entertainment Venues	Yes	Grocery Stores	No
Courtyard Cinema		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
Shepplers Gate		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): East Central Avenue from Nicolet Street to S Huron Avenue; Langlade Street from E Central Avenue to E Etherington Street; Straits/N

Huron Avenues from Louvigny Street to E Depeyster Street

Corridor Classification: Central Business District
Unit(s) of Government: Village of Mackinaw City

Length: 0.84 miles

Street Classification: Major Collector, Local

2013 Traffic Volume(AADT): NA

Number of Traffic Lanes: 2-4, Bi-Directional Traffic with Turn/Passing Lanes

Parking Diagonal

Transit Service: Straits Regional Ride - Flexible Route

Bike Lane: No Entertainment Venues: Yes

Pedestrian Amenities: Sidewalks, Crosswalks, Mid-Block Crosswalks

Walk Score 65



#### **Corridor Overview**

The heart of the tourism activity in Mackinaw City is centered in the CBD's eastern most two blocks of East Central Avenue, Mackinaw Crossings pedestrian mall, and the first block of Langlade. This area has a variety of uses that are appropriate and compatible, but most are retail. Other compatible uses are office space for businesses that support tourism, restaurants, taverns, arts and crafts galleries, museums, and amusement attractions. Pedestrian access to the stores should be considered the primary mode of transportation in the downtown.



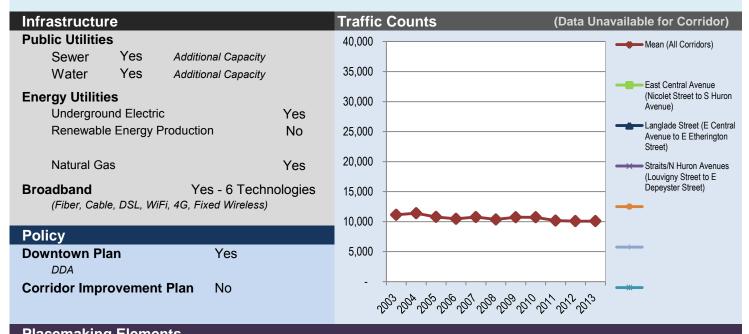
#### **Economic Development**

Community policies or activities assisting economic development (Village of Mackinaw City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

page 44	Mackinaw City CBD				
Study Area Summary for 1/4 Mile Area S	Surrounding the Corridor				
	Corridor Segment	G&I Core Place	G&I Area		
Census Data	Mackinaw City CBD	Village of Mackinaw City	Mackinaw City		
Total Population (2010)	430	806	1,200		
People per Acre	1.42	0.37	0.07		
People per Square Mile	906	238	44		
Total Housing (2010)	455	814	1,233		
Gross Neighborhood Density (per acre)	1.50	0.38	0.07		
Study Area Size (Land Cover)					
Acres	303.80	2,163.20	17,369.60		
Square Miles	0.47	3.38	27.14		
Workers Living within Study Area	124	216	321		
% with earnings \$1250/month or less	26%	30%	32%		
% with earnings \$1251/month to \$3333/month	48%	44%	40%		
% with earnings greater than \$3333/month	27%	26%	28%		
Jobs Located within Study Area	655	659	667		
Job Density (per acre)	2.16	0.30	0.04		
% with earnings greater than \$3333/month  Jobs Located within Study Area	27% <b>655</b>	659	28% <b>667</b>		

Zoning						
			% of Districts That	Max Residenti	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
R1   R4   B1   B3   B4	100%	20%	20%	5.8	14.5	45 ft



Placemaking Elements			
Theaters/Entertainment Venues	Yes	Grocery Stores	Yes
Courtyard Cinema		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
Mackinaw Bridge, Colonial Michilimackinac,	Old Mackinaw	Public Art Installations	Yes
Point Lighthouse, The Crossings		Wayfinding	Yes
		Pedestrian Connections	Yes

# **Growth & Investment Area Unit(s) of Government:**

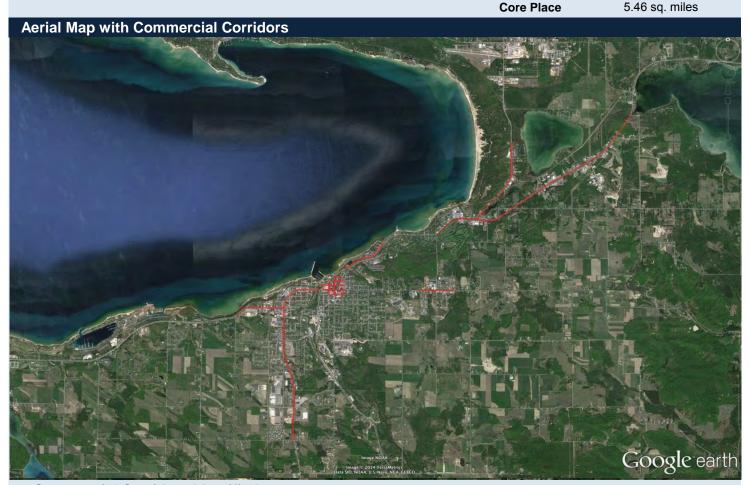
City of Petoskey, Bear Creek Township, Resort Township

#### **Core Place Census Areas:**

City of Petoskey, Bay View CDP

County Census Class Land Area

Emmet Urban Cluster G&I Area 63.79 sq. miles



#### **8 Commercial Corridors Identified**

Highest Corridor Traffic Count (Annual Average Daily Traffic)

Population Density Range of G&I Area Corridors (per acre)

Gross Neighborhood Density Range of G&I Area Corridors (per acre)

Job Density Range of G&I Area Corridors (per acre)

Worker Density Range of G&I Area Corridors (per acre)

30,568

Density calculations a derived from the area within a 1/4 mile of Corridor (Corridor Study Area)

1.0 - 14.4

Worker Density Range of G&I Area Corridors (per acre)

0.2 - 3.1

Retail

**Total Sales** \$375,933,519 **Classification:** Regional Retail Hub

Potential Sales \$168,444,675

Leakage (\$207,488,844) Seasonal Housing: 19.5% of G&I Area Housing

Sprawl

Percentage of Housing in the Core Place is Declining by -5.7%

**Population** 

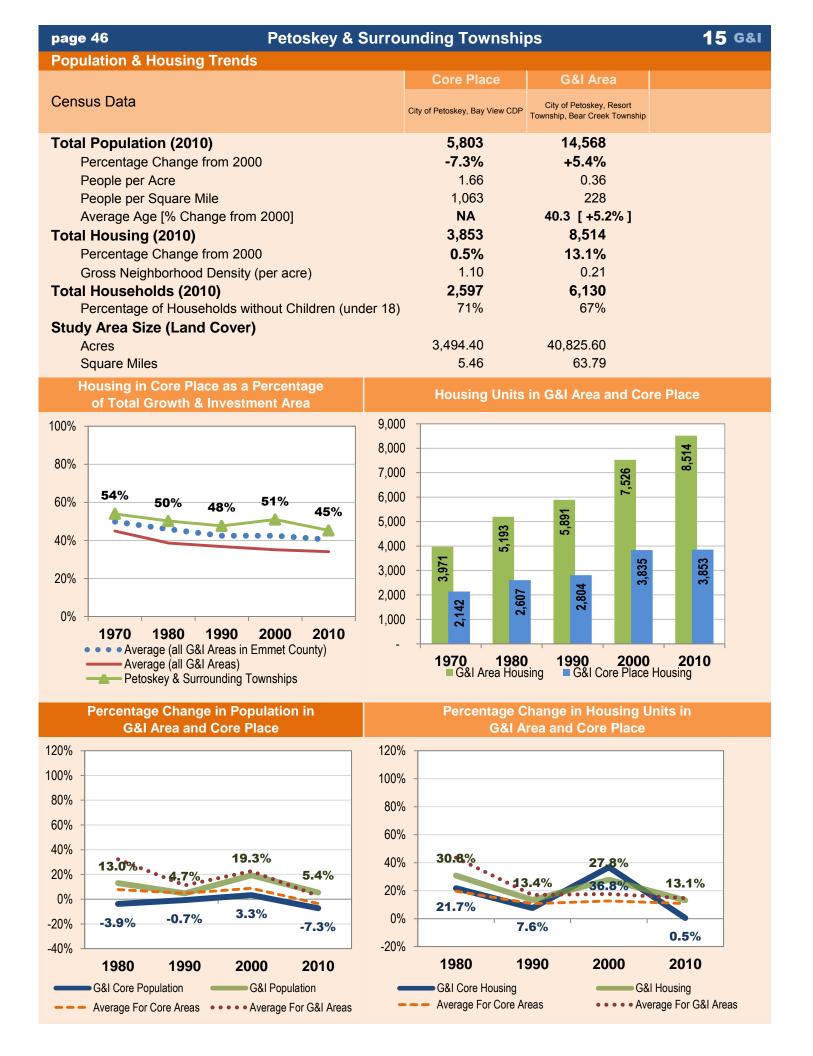
2000-2010: Growing at 5.4% with the Core Place Declining at -7.3%

Average Age: 40.3 [+5.2% change from 2000 Census]

**Demographic Shifts:** Generation X had the largest % gain (up 5.9%); Silent Generation had the largest % loss (down -13.8%)

Jobshed

Worker Importer – Number of Jobs exceeds Resident Worker population by 109%



G&I	15	Petoskey & Surrounding Townships	page 47
Gro	wth 8	Investment Readiness Assessment	Criteria Status
teria	1	Municipal Water	Yes
n Cri	2	Municipal Sewer	Yes
Initial Selection Criteria	3	Government Staff	Yes
al Sel	4	Master Plan Includes Higher Density Center	Yes
Initi	5	Zoning Ordinance Supporting Master Plan Density Center	Yes
	6	Core Place Population Increasing	No
Ø	7	Housing Growth Rate Over 15% (2000-2010 Census)	No
s Dat	8	Core Place Housing Growth Increasing Faster than Surrounding Area	No
Census Data	9	Census Class (Rural, Urban Cluster, Urbanized Area, MSA)	Urban Cluster
0	10	Job Density Over 75 Jobs Per Acre in Commercial Corridors	No
	11	50% of Workers Living within 5 miles	No
	12	Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors	Yes
<u>ج</u>	13	Zoning Allows Mixed-Use by Right in Commercial Corridors	Yes
Polic	14	Zoning Allows Multi-Family Residential by Right in Commercial Corridors	Yes
Zoning Policy	15	Building Height Limits Greater than 35 feet in Commercial Corridors	Yes
Ž	16	No On Site Parking Requirement in Central Business District	Yes
	17	Density Bonuses Offered for Contributions Towards Public Policy Goals	No
	18	4 Key Placemaking Elements in Corridors	Yes
king	19	Retail Hub	Yes - Regional
Placemaking	20	Educational Institutions (Trade Schools, Community Colleges, Universities)	Yes
Plac	21	Contain Medical Centers	Yes
	23	Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)	No
>	24	Community Identified Development Opportunities	Yes
Opportunity	25	Marketing Redevelopment & Infill Sites	No
lodd(	22	Fixed Route Transit (Headways 15 mins or less)	No
	30	Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)	Yes > 25,000
ē	26	Additional Water Capacity	Yes
Infrastructure	27	Additional Sewer Capacity	Yes
frasti	28	Broadband Service over 1 Gbps Available	No
드	29	Municipal WiFi	Yes

page 48 Petoskey & Surrounding Townships						15 G&I
Cor	nmercial Corridors					
ID	Name	Corridor Length (feet)	Population Density (People per acre)	Housing Density (Dwellings per acre)	Job Density (Jobs per acre)	Worker Density (Workers per acre)
91	Petoskey CBD	11,312	7.9	4.5	14.4	3.1
92	Petoskey U31 MacDonald Corridor	3,914	3.8	2.9	3.3	1.3
93	Petoskey West Mitchell Street Corridor	3,605	3.8	2.5	12.7	1.8
94	Petoskey Spring Street US131 Corridor	10,803	3.4	2.0	6.0	1.4
95	Petoskey US31-Charlevoix Corridor	4,015	1.9	1.3	8.7	0.8
96	Bear Creek US31 Corridor	18,892	0.7	0.7	1.0	0.2
97	Bear Creek M119 Corridor	7,240	0.6	0.6	1.8	0.2
98	Bear Creek East Mitchell/South Division Corridor	2,813	3.2	1.6	1.3	1.3



Housing Efficiency Rating (Average HERS)	292	252
Efficiency compared to 2012 DOE Challenge Home (30 HERS)	262% Less Efficient	222% Less Efficient
Percentage Built by Year		
Before 1940	37%	20%
1940-1949	6%	4%
1950-1959	8%	7%
1960-1969	5%	7%
1970-1979	8%	13%
1980-1989	11%	12%
1990-1999	14%	20%
2000-2009	11%	17%
Later than 2010	0%	0%
Average Age	1956	1970

# **Median Value**

City of Petoskey \$190,800 Bear Creek Township \$182,400 Resort Township \$207,700

# **Home Heating Fuel**

Percent of Homes Natural Gas	82%	67%
Percent of Homes Using Propane	0%	16%
Percent of Homes Using Wood	5%	7%
Percent of Homes Using Solar Energy	0%	0%

# **Personal Income**

#### Census-ACS Data (2008-2012 5 Year Summary File) **Household Income Distribution** Median Household Income (2012 Dollars) **Core Place** 15% City of Petoskey \$42,056 Bay View CDP \$76,154 10% **G&I Area** \$42,056 City of Petoskey Bear Creek Township \$52,930 5% \$70,000 Resort Township 0% Jurat 1,00 524,000 11112340059988 1,1,20,00,24,000 100 20 100 20 A 388 7-575 (00 sp. 20 38 8 100 5 A 38

Core Place

- All Core Places ••••• All G&I Areas

-G&I Area

# Per Capita Annual Income (2012 Dollars)

**Core Place** \$36,773 \$32,288 **G&I Area** 

Policy						
		0	Nana Huit			
Data Source: Commercial Corridor II	nventory Interview	City of Petos	Poor (	Creek	nent Interview	ea l
ear of Master Plan Approval		2006	20	12		
Master Plan Update		2012	N	A		
Community Economic Strate	3 <b>y</b>	No	Ye	es		
Economic Strategy Coordinates	with Regional Strategy	NA	N	lo		
Growth & Investment Strateg	y	Yes	N	0		
Identify Areas of Focus for Grow	h & Investment Strategy	Yes	N	lo		
Active G&I Strategy Developmen	t Discussions	NA	Ye	es		
Planning Zoning Benchmarks		NA	N	A		
evelopment Opportunities o	n Corridor	Yes	Ye	es		
Redevelopment Priorities Identific	ed	Yes	Ye	es		
Redevelopment Resources Ident		Yes		es		
Market Potential Development Si	tes	No	N	lo		
Guides and Resources						
Publish Development Guide		No		es		
Zoning Orientation Package Prov	ided to Staff & Committees	\/	N.			
_o.m.g ooa.o aonagoo.	rada to dian a dominimodo	Yes	IN	lo		
Zoning Training Funding	add to clair a comminació	Yes Yes		o es		
Zoning Training Funding				es		
Zoning Training Funding Community Marketing Strates		Yes	Y	es		
Zoning Training Funding  Community Marketing Strateg  Area Plans  Downtown Plan	у	Yes No Yes	N N	es O		
Zoning Training Funding  Community Marketing Strates  Area Plans	у	Yes No	N N	es O		
Zoning Training Funding  Community Marketing Strateg  Area Plans  Downtown Plan	B <b>y</b> Authority	No  Yes  TIFA Establis	N N	es		
Zoning Training Funding  Community Marketing Strates  Area Plans  Downtown Plan  Downtown Development  Corridor Improvement Plan	B <b>y</b> Authority	Yes  No  Yes  TIFA Establis 1985	N N	es		
Zoning Training Funding  community Marketing Strategorea Plans  Downtown Plan  Downtown Development  Corridor Improvement Plan  Corridor Improvement A	Authority uthority Districts in Identified Comme	Yes No Yes TIFA Establis 1985 No	N N	es	% of Districts in Corridors where Multi-Family Use is allowed by Right	Max Building Height Allow in Corridors
Zoning Training Funding  Community Marketing Strateg  Area Plans  Downtown Plan  Downtown Development  Corridor Improvement Plan  Corridor Improvement A	Authority uthority Districts in Identified Comme	Yes No Yes TIFA Establis 1985 No	No N	% of Districts in Corridors where Mixed Use is	Corridors where Multi-Family Use is	Height Allowe

				page 51
G&I 15 Petoskey & Surrounding Townships				
Infrastructure				
	Unit	s of Governn	nent Interviewed	
Data Source: Commercial Corridor Inventory Interviews	City of Petoskey	Bear Creek Township		
Municipal Water Service	Yes	No		
Additional Capacity	Yes	NA		
Water Reliability Study	Yes	Yes		
Wellhead Protection Plan	No	No		
Municipal Sewer Service	Yes	Yes		
Additional Capacity	Yes	Yes		
Waste Water Master Plan	Yes	Yes		
Broadband	Available In	Core Place		
Available Technologies				
Fiber (non FTTH)	Ye	s		
Cable	Ye	s		
DSL	Ye	s		
4G Wireless	Ye	s		
Municipal WiFi	Ye	s		
Fixed Wireless Broadband	Ye	s		
Available Speeds				
Ultra - Greater that 1 Gigabit Per Second (Gbps)	No	0		
High - 100 Mbps to less than 1 Gbps	Ye	s		

Energy	Available In Core Place
Natural Gas	Yes
Underground Electric Service	Yes
Renewable Energy Generation	Yes

mmercial Corridor Placemaking Elements					
	Placemaki				
Name	Theaters & Entertainment Venues	Grocery Stores	Parks & Pocket Parks	Pedestrian Connections	Job / Population Ratio
Petoskey CBD	Yes	Yes	Yes	Yes	1.822
Petoskey U31 MacDonald Corridor	No	No	Yes	Yes	0.860
Petoskey West Mitchell Street Corridor	No	No	Yes	Yes	3.324
Petoskey Spring Street US131 Corridor	Yes	Yes	Yes	Yes	1.788
Petoskey US31-Charlevoix Corridor	No	No	Yes	Yes	4.603
Bear Creek US31 Corridor	No	Yes	No	Yes	1.452
Bear Creek M119 Corridor	No	No	Yes	Yes	3.306
Bear Creek East Mitchell/South Division Corridor	No	Yes	No	No	0.398
	Name  Petoskey CBD  Petoskey U31 MacDonald Corridor  Petoskey West Mitchell Street Corridor  Petoskey Spring Street US131 Corridor  Petoskey US31-Charlevoix Corridor  Bear Creek US31 Corridor  Bear Creek M119 Corridor	Name  Theaters & Entertainment Venues  Petoskey CBD  Petoskey U31 MacDonald Corridor  Petoskey West Mitchell Street Corridor  Petoskey Spring Street US131 Corridor  Petoskey US31-Charlevoix Corridor  Bear Creek US31 Corridor  No  Bear Creek M119 Corridor  No	Name  Petoskey CBD Petoskey U31 MacDonald Corridor Petoskey West Mitchell Street Corridor Petoskey Spring Street US131 Corridor Petoskey US31-Charlevoix Corridor No	Name  Theaters & Entertainment Venues  Petoskey CBD Petoskey U31 MacDonald Corridor Petoskey West Mitchell Street Corridor Petoskey Spring Street US131 Corridor Petoskey US31-Charlevoix Corridor No No No No No Yes Petoskey US31-Charlevoix Corridor No Yes Petoskey US31-Charlevoix Corridor No No No No Yes No	Name  Petoskey CBD Petoskey U31 MacDonald Corridor Petoskey West Mitchell Street Corridor Petoskey Spring Street US131 Corridor Petoskey US31-Charlevoix Corridor No

page 52 Petoskey & Surrounding Townships						
Talent Jobshed						
		Core Place	G&I Area			
Census Data		City of Petoskey, Bay View CDP	City of Petoskey, Resort Township, Bear Creek Township			
Workers Living within Study Are	ea	2,272	5,816			
Worker Density (per acre)	•	0.65	0.14			
Worker's Earnings						
% with earnings \$1250/month or	less	29%	28%			
% with earnings \$1251/month to		42%	40%			
% with earnings greater than \$33	33/month	30%	33%			
Jobs Located in Area		8,675	12,129			
Job Density (per acre)		2.48	0.30			
Commute Data for Workers Emp						
Commuting data for workers residing from	m 2 - 1/5 miles from G					
Commuting Workers		7,105	21% Commuting 5 Mile	es or Less		
<b>Total Daily One Way Commute f</b>	or all Commute	rs				
Route Distance (Miles)		218,191				
Commute Time (Minutes)		278,144				
Total Annual Commute for all Co	ommuters					
Distance (Miles)		114,550,045				
Time (Hours)		2,433,761				
Annual Commuting Costs						
Total Fuel Cost		17,431,529				
Total Cost (IRS 2014 Standard M	lileage Rate)	\$64,148,025				
Average Per Worker Commute		Daily (2-Way)	Annual			
Distance (Miles)		61	16,122			
Time (Hours)		1.3	343			
Cost (IRS Standard Mileage Rate	e)	\$34	\$9,029			
Retail Activity						

Retail Activity			
	Core Place Activity	G&I Area Activity	County Activity
Total Retail Sales	\$195,115,536	\$375,933,519	\$450,773,091
Total Potential Retail Sales	\$66,638,354	\$168,444,675	\$359,281,470
Leakage	(\$128,477,182)	(\$207,488,844)	(\$91,491,621)

Classification: Regional Retail Hub

Petoskey & Surrounding Townships area businesses are capturing sales from the residents of Petoskey & Surrounding Townships area as well as areas inside and outside Emmet County.

Sales by Retail Store Type	Core Place Sales	Potential G&I Area Sales	Core Place Sales / Potential G&I Sales
Food & Beverage Stores	\$21,688,085	\$21,155,968	103%
Health/Personal Care Stores	\$15,639,551	\$13,157,549	119%
Clothing & Accessories Stores	\$12,277,045	\$8,471,446	145%
Sport/Hobby/Book/Music Stores	\$6,632,750	\$4,084,079	162%
General Merchandise Stores	\$47,561,678	\$35,275,855	135%
Food & Beverage Establishments	\$19,727,754	\$15,843,581	125%
E-Shopping/Mail-Order	\$0	\$8,391,599	0%

Corridor Street Name(s): East Lake Street from Quaintance Avenue to Division Street; Bay/Petoskey Streets from Division Street to Michigan Street;

Howard/Rose/Lewis Streets from Bay Street to Michigan Street ; E. Mitchell Street from US31 to Division Street; Michigan

Street/Waukazoo Avenue from Petoskey Street to E. Mitchell Street

Corridor Classification: Central Business District

Unit(s) of Government: City of Petoskey

Length: 2.14 miles

Street Classification: Major Collector, Minor Arterial

2013 Traffic Volume(AADT): NA

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking Parallel, Diagonal

Transit Service: Friendship Centers of Emmet County - Senior Tran

Bike Lane: No Entertainment Venues: Yes

Pedestrian Amenities: Sidewalks, Crosswalks, Mid-Block Crosswalks

Walk Score 100



#### **Corridor Overview**

The Central Business District is a pedestrian-oriented shopping and commercial services area of historic downtown Petoskey. The physical building form and land uses are regulated to reflect the urban character of the historic commercial center of the community and to perpetuate the pedestrian-oriented business district by requiring street level commercial uses and permitting a mix of upper floor uses.



#### **Economic Development**

Community policies or activities assisting economic development (City of Petoskey)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	Yes

page 54	Petoskey CBD		
Study Area Summary for 1/4 Mile Area Su	rrounding the Corridor		
	Corridor Segment	G&I Core Place	G&I Area
Census Data	Petoskey CBD	City of Petoskey, Bay View CDP	Petoskey & Surrounding Townships
Total Population (2010)	2,434	5,803	14,568
People per Acre	7.91	1.66	0.36
People per Square Mile	5,065	1,063	228
Total Housing (2010)	1,385	3,853	8,514
Gross Neighborhood Density (per acre)	4.50	1.10	0.21
Study Area Size (Land Cover)			
Acres	307.55	3,494.40	40,825.60
Square Miles	0.48	5.46	63.79
Workers Living within Study Area	953	2,272	5,816
% with earnings \$1250/month or less	29%	29%	28%
% with earnings \$1251/month to \$3333/month	40%	42%	40%
% with earnings greater than \$3333/month	30%	30%	33%
Jobs Located within Study Area	4,434	8,675	12,129
Job Density (per acre)	14.42	2.48	0.30
Zanina			

Zoning						
		% of Districts That	% of Districts That	Max Residential Site Density		Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
R-1   RM-2   B-1   B-2   B-3   O-S   PUD   PR	88%	75%	63%	5.2	145.2	40 ft



**Parks** 

**Pocket Parks** 

Wayfinding

**Public Art Installations** 

**Pedestrian Connections** 

**Iconic Buildings** 

Xavier Parish

Crooked Tree Art Center, Chesapeake & Ohio Railway

Station, Perry Hotel, Petoskey Public Library, St Francis

Yes

Yes

Yes

Yes

Yes

Corridor Street Name(s): Bay View Road (US31) from Boulder Lane to Lewis Street

Corridor Classification: Commercial
Unit(s) of Government: City of Petoskey

Length: 0.74 miles

Street Classification: Principal Arterial - Other 2013 Traffic Volume(AADT): 20,075 Source: MDOT

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking No Street Parking

Transit Service: Friendship Centers of Emmet County - Senior Trans

Bike Lane: Yes
Entertainment Venues: No

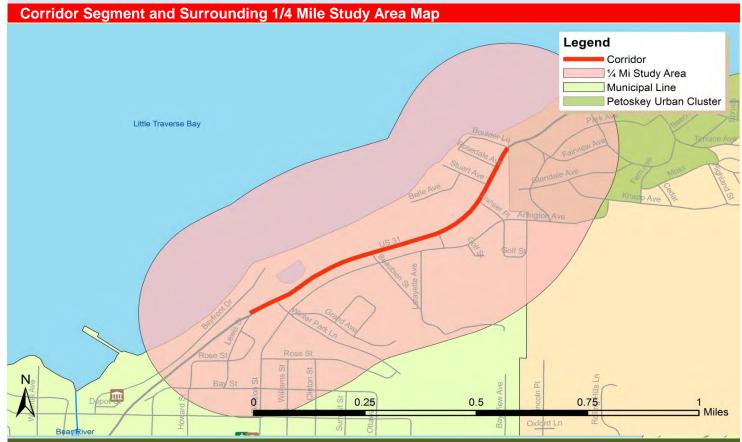
Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 60



#### **Corridor Overview**

The US31 MacDonald Corridor is located on US-31 and links the historic downtown CBD to destinations to the north including the Bay View Association, the Bear Creek US-31 Commercial Corridor, and M119 to Harbor Springs. The corridor consists of a mix of retail and multi-family residential development.



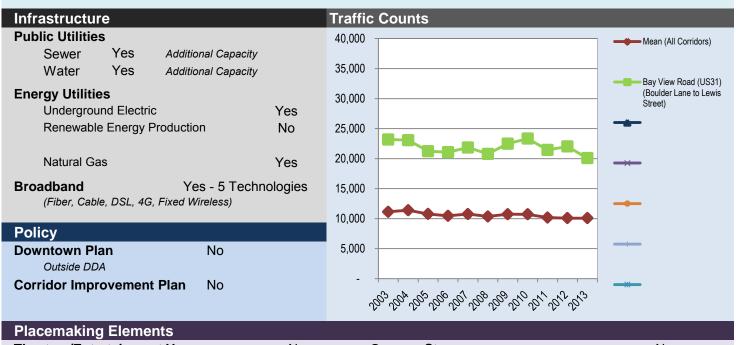
# **Economic Development**

Community policies or activities assisting economic development (City of Petoskey)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	Yes

page 56	Petoskey U31 MacDonald Corridor	<b>92</b> cc				
Study Area Summary for 1/4 Mile Area Surrounding the Corridor						
	Corridor Segment	G&I Core Place	G&I Area			
Census Data	Petoskey U31 MacDonald Corridor	City of Petoskey, Bay View CDP	Petoskey & Surrounding Townships			
Total Population (2010)	989	5,803	14,568			
People per Acre	3.85	1.66	0.36			
People per Square Mile	2,463	1,063	228			
Total Housing (2010)	749	3,853	8,514			
Gross Neighborhood Density (per acre	2.92	1.10	0.21			
Study Area Size (Land Cover)						
Acres	256.94	3,494.40	40,825.60			
Square Miles	0.40	5.46	63.79			
Workers Living within Study Area	330	2,272	5,816			
% with earnings \$1250/month or less	26%	29%	28%			
% with earnings \$1251/month to \$3333	/month 40%	42%	40%			
% with earnings greater than \$3333/mg	onth 35%	30%	33%			
Jobs Located within Study Area	851	8,675	12,129			
Job Density (per acre)	3.31	2.48	0.30			

Zoning						
District(s)		% of Districts That Allow Multi-Family by Right		Max Residential Site Density		Max Building
				Lowest Density District	Highest Density District	Height
R-1   RM-2   B-3   PR	75%	50%	25%	5.2	26.7	33 ft



Placemaking Elements			
Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	No
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): W. Mitchell/Spring Streets (US31) from Elizabeth Street to Charlevoix Avenue

Corridor Classification: Commercial
Unit(s) of Government: City of Petoskey

Length: 0.68 miles

Street Classification: Principal Arterial - Other 2013 Traffic Volume(AADT): 28,229 Source: MDOT

Number of Traffic Lanes: 4, Bi-Directional Traffic with Turn/Passing Lanes

Parking Structure(s)

Transit Service: Friendship Centers of Emmet County - Senior Trans

Bike Lane: No Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 80



#### **Corridor Overview**

The West Mitchell Street Corridor is located on US-31 and links the auto-oriented commercial areas of Spring Street to the historic downtown CBD. McLaren Northern Michigan Hospital is located on the corridor as well as a complement of retail, restaurant, and other commercial service businesses



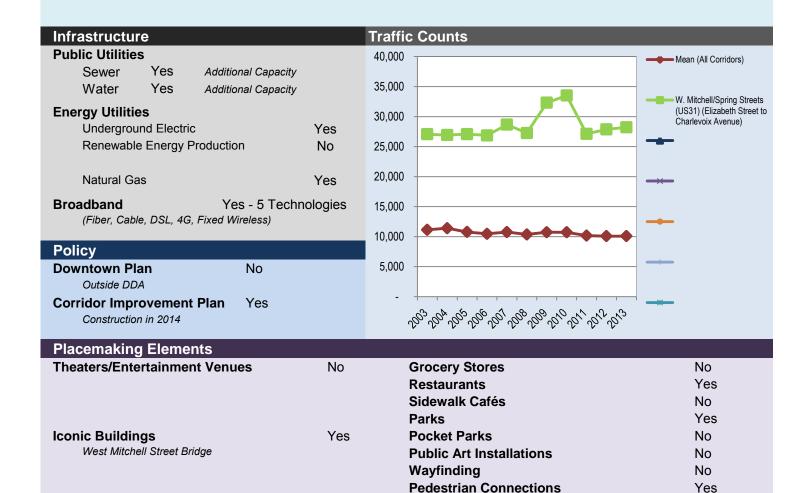
# **Economic Development**

Community policies or activities assisting economic development (City of Petoskey)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	Yes

page 58 Petoskey We	Petoskey West Mitchell Street Corridor					
Study Area Summary for 1/4 Mile Area Surrounding the Corridor						
	Corridor Segment	G&I Core Place	G&I Area			
Census Data	Petoskey West Mitchell Street Corridor	City of Petoskey, Bay View CDP	Petoskey & Surrounding Townships			
Total Population (2010)	1,219	5,803	14,568			
People per Acre	3.83	1.66	0.36			
People per Square Mile	2,454	1,063	228			
Total Housing (2010)	807	3,853	8,514			
Gross Neighborhood Density (per acre)	2.54	1.10	0.21			
Study Area Size (Land Cover)						
Acres	317.95	3,494.40	40,825.60			
Square Miles	0.50	5.46	63.79			
Workers Living within Study Area	578	2,272	5,816			
% with earnings \$1250/month or less	30%	29%	28%			
% with earnings \$1251/month to \$3333/month	43%	42%	40%			
% with earnings greater than \$3333/month	27%	30%	33%			
Jobs Located within Study Area	4,052	8,675	12,129			
Job Density (per acre)	12.74	2.48	0.30			

Zoning						
District(s)		% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building
				Lowest Density District	Highest Density District	Height
R-1   RM-2   B-3	100%	67%	33%	5.2	26.7	33 ft



Corridor Street Name(s): Spring Street (US131) from Charlevoix Avenue to La Chaumiere; US131 from La Chaumiere to Intertown Road

Corridor Classification: Commercial

Unit(s) of Government: City of Petoskey, Bear Creek Township

Length: 2.05 miles

Street Classification: Principal Arterial - Other 2013 Traffic Volume(AADT): 21,037 Source: MDOT

Number of Traffic Lanes: 2-4, Bi-Directional Traffic with Turn/Passing Lanes

Parking No Street Parking

Transit Service: Friendship Centers of Emmet County - Senior Trans

Bike Lane: No
Entertainment Venues: Yes

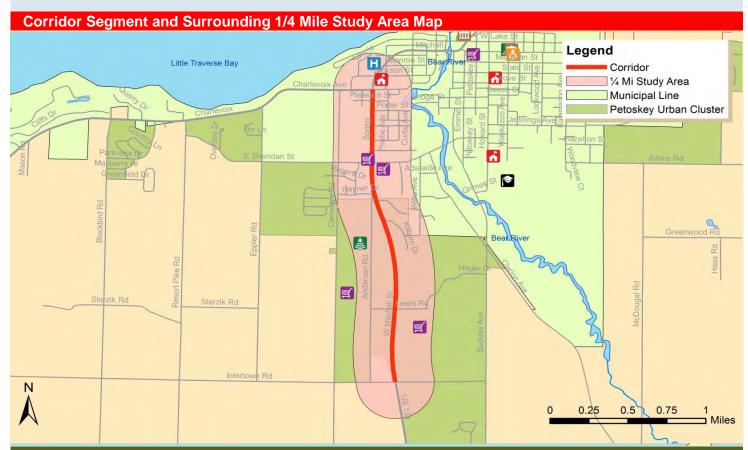
Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 52



#### **Corridor Overview**

The Spring Street US131 Corridor is a major regional route that provides a southern connection and links Kalkaska and Cadillac to Petoskey and provides a mix of regional and resort commercial businesses as well as residential development in multiple family and mixed-use buildings. While the areas are sidewalk-accessible, the businesses are predominantly automobile-oriented and larger scale due to their regional nature. Several Large big box retailers are located on the corridor.



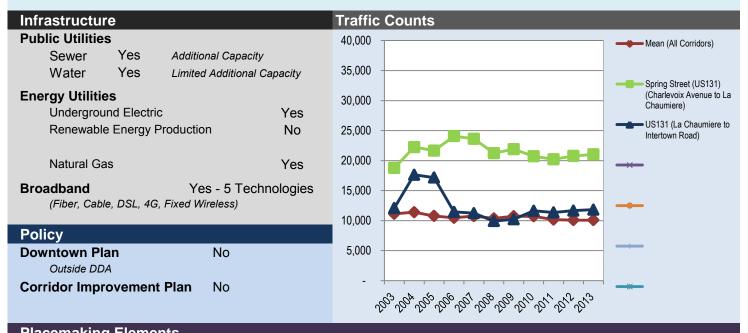
#### **Economic Development**

Community policies or activities assisting economic development (City of Petoskey or Bear Creek Township)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	Yes	Capital Improvement Plan	Yes

page 60 Petoskey Spring	Petoskey Spring Street US131 Corridor				
Study Area Summary for 1/4 Mile Area Surroun	ding the Corridor				
	Corridor Segment	G&I Core Place	G&I Area		
Census Data	Petoskey Spring Street US131 Corridor	City of Petoskey, Bay View CDP	Petoskey & Surrounding Townships		
Total Population (2010)	2,593	5,803	14,568		
People per Acre	3.37	1.66	0.36		
People per Square Mile	2,155	1,063	228		
Total Housing (2010)	1,571	3,853	8,514		
Gross Neighborhood Density (per acre)	2.04	1.10	0.21		
Study Area Size (Land Cover)					
Acres	770.03	3,494.40	40,825.60		
Square Miles	1.20	5.46	63.79		
Workers Living within Study Area	1,116	2,272	5,816		
% with earnings \$1250/month or less	29%	29%	28%		
% with earnings \$1251/month to \$3333/month	43%	42%	40%		
% with earnings greater than \$3333/month	28%	30%	33%		
Jobs Located within Study Area	4,635	8,675	12,129		
Job Density (per acre)	6.02	2.48	0.30		

Zoning						
D: ( : (/ )		% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building
District(s)	Allow Residential Use			Lowest Density District	Highest Density District	Height
City of Petoskey: RM-1   B-3   B-3A   I-1   PUD	100%	100%	60%	15.2	26.7	25 ft
Bear Creek Township: R-1B   R-2B   R-2C   B-2   FF-1	80%	40%	0%	1.0	10.9	30 ft



Theaters/Entertainment Venues	Yes	Grocery Stores	Yes
Petoskey Cinema		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

Corridor Street Name(s): Charlevoix Avenue (US31) from Eppler Road to US131

Corridor Classification: Commercial
Unit(s) of Government: City of Petoskey

Length: 0.76 miles

Street Classification:Principal Arterial - Other2013 Traffic Volume(AADT):15,722Source: MDOTNumber of Traffic Lanes:4, Bi-Directional Traffic

Parking No Street Parking

Transit Service: Friendship Centers of Emmet County - Senior Trans

Bike Lane: No Entertainment Venues: No

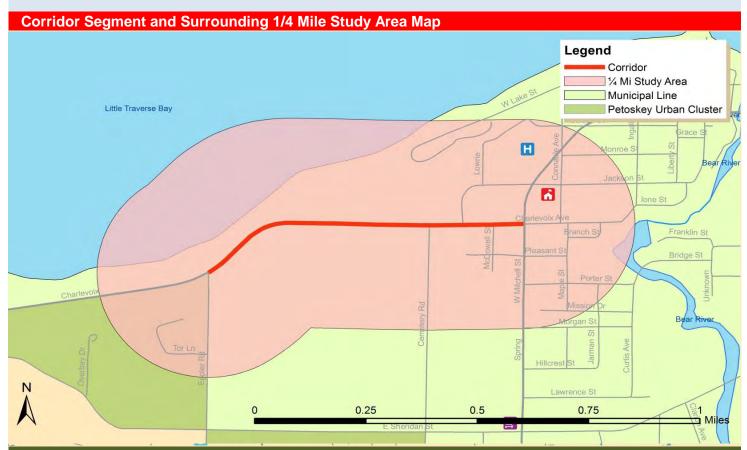
Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 38



#### **Corridor Overview**

The US31 Charlevoix Corridor is located on US-31, which links Petoskey to destinations to the south and west including Bay Harbor and the City of Charlevoix. The corridor consists of a mix of auto-oriented retail, auto dealerships, commercial service businesses, and the Emmet County Fairgrounds.



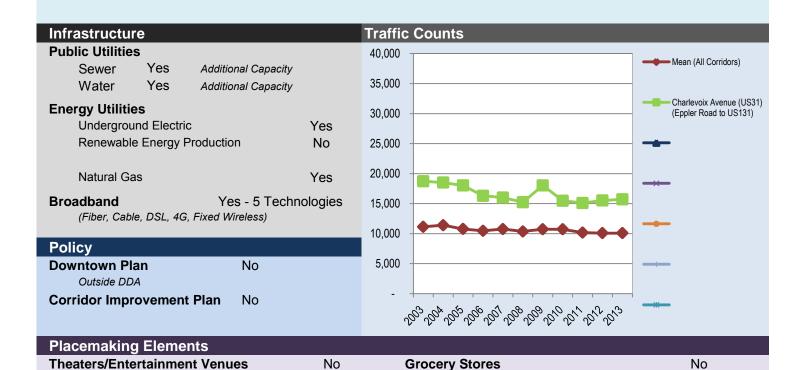
## **Economic Development**

Community policies or activities assisting economic development (City of Petoskey)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	Yes

page 62 Petoskey	Petoskey US31-Charlevoix Corridor				
Study Area Summary for 1/4 Mile Area Surre	ounding the Corridor				
	Corridor Segment	G&I Core Place	G&I Area		
Census Data	Petoskey US31-Charlevoix Corridor	City of Petoskey, Bay View CDP	Petoskey & Surrounding Townships		
Total Population (2010)	577	5,803	14,568		
People per Acre	1.90	1.66	0.36		
People per Square Mile	1,215	1,063	228		
Total Housing (2010)	409	3,853	8,514		
Gross Neighborhood Density (per acre)	1.35	1.10	0.21		
Study Area Size (Land Cover)					
Acres	304.05	3,494.40	40,825.60		
Square Miles	0.48	5.46	63.79		
Workers Living within Study Area	231	2,272	5,816		
% with earnings \$1250/month or less	27%	29%	28%		
% with earnings \$1251/month to \$3333/month	48%	42%	40%		
% with earnings greater than \$3333/month	25%	30%	33%		
Jobs Located within Study Area	2,656	8,675	12,129		
Job Density (per acre)	8.74	2.48	0.30		

Zoning						
			% of Districts That	Max Residenti	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
R-1   B-3   B-3B	100%	67%	67%	5.2	26.7	25 ft



Restaurants

**Pocket Parks** 

Wayfinding

**Parks** 

No

**Iconic Buildings** 

Sidewalk Cafés

**Public Art Installations** 

**Pedestrian Connections** 

Yes

No

Yes

No

No

No

Yes

Corridor Street Name(s): US31 from Graham Road to Division Road

Corridor Classification: Commercial

Unit(s) of Government: Bear Creek Township

Length: 3.58 miles

Street Classification: Principal Arterial - Other 2013 Traffic Volume(AADT): 30,568 Source: MDOT

Number of Traffic Lanes: 2-4, Bi-Directional Traffic with Turn/Passing Lanes

Parking No Street Parking

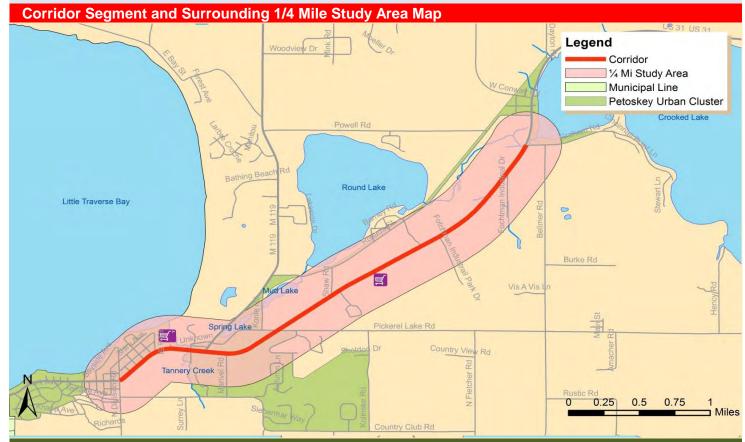
Transit Service: Friendship Centers of Emmet County - Senior Trans

Bike Lane: No
Entertainment Venues: No
Pedestrian Amenities: Sidewalks
Walk Score 23



#### **Corridor Overview**

The US 31 Corridor contains two main areas of more intense commercial development along the highway. This intensity decreases in some areas where the terrain is steep. But further north, the intensity increases with several smaller type businesses mixed with larger sized commercial operations. This is an area targeted for future commercial growth due to the existing infrastructure. This area has seen increased commercial development including a large grocery store, strip development, as well as auto dealerships. It is bounded on the southwest by the Bay View Association and Conway to the north.



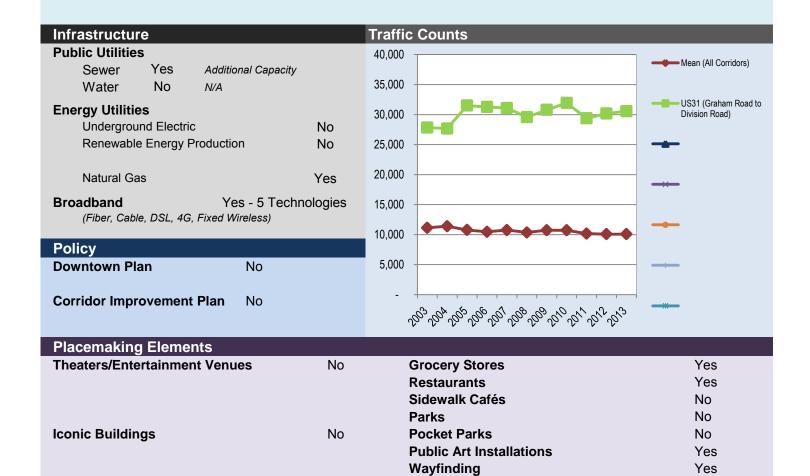
#### **Economic Development**

Community policies or activities assisting economic development (Bear Creek Township)

Growth & Investment Strategy	No	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	No	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	Yes	Capital Improvement Plan	No

page 64	Bear Creek US31 Corridor		<b>96</b> cc
Study Area Summary for 1/4 Mile Are	a Surrounding the Corridor		
	Corridor Segment	G&I Core Place	G&I Area
Census Data	Bear Creek US31 Corridor	City of Petoskey, Bay View CDP	Petoskey & Surrounding Townships
Total Population (2010)	850	5,803	14,568
People per Acre	0.70	1.66	0.36
People per Square Mile	448	1,063	228
Total Housing (2010)	824	3,853	8,514
Gross Neighborhood Density (per acre)	0.68	1.10	0.21
Study Area Size (Land Cover)			
Acres	1,215.57	3,494.40	40,825.60
Square Miles	1.90	5.46	63.79
Workers Living within Study Area	286	2,272	5,816
% with earnings \$1250/month or less	29%	29%	28%
% with earnings \$1251/month to \$3333/mo	onth 39%	42%	40%
% with earnings greater than \$3333/month	33%	30%	33%
Jobs Located within Study Area	1,234	8,675	12,129
Job Density (per acre)	1.02	2.48	0.30

Zoning						
			% of Districts That	Max Residenti	ial Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
R-1A   R-1B   R-2B   B-1   B-2   I-1	50%	17%	0%	3.6	7.3	30 ft



**Pedestrian Connections** 

Yes

Corridor Street Name(s): Harbor Springs-Petoskey Road (M119) from Chesters Chalets to US31

Corridor Classification: Commercial/Industrial
Unit(s) of Government: Bear Creek Township

Length: 1.37 miles
Street Classification: Minor Arterial

2013 Traffic Volume(AADT): 14,872 Source: MDOT

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking No Street Parking

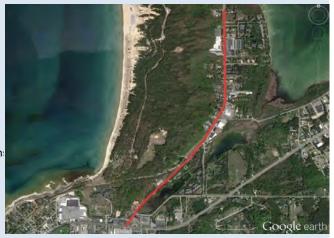
Transit Service: Friendship Centers of Emmet County - Senior Trans

Bike Lane: Yes

Entertainment Venues: No

Pedestrian Amenities: Sidewalks

Walk Score 42



#### **Corridor Overview**

The M119 Corridor links Petoskey to Harbor Springs. The corridor consists of a mix of commercial service businesses, small strip developments, a craft brewery, and the Petoskey State Park.



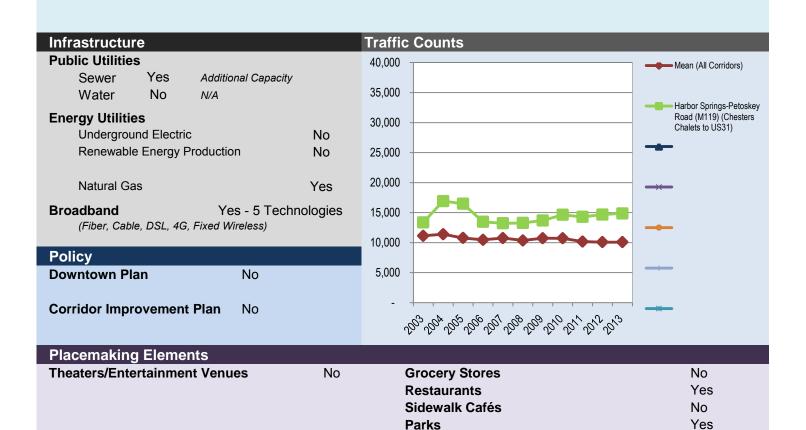
### **Economic Development**

Community policies or activities assisting economic development (Bear Creek Township)

Growth & Investment Strategy	No	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	No	Community Marketing Strategy	No
<b>Development Opportunities</b>	Yes	Market Potential Development Sites	No
Publish Development Guide	Yes	Capital Improvement Plan	No

page 66	Bear Creek M119 Corridor		<b>97</b> cc
Study Area Summary for 1/4 Mile Are	a Surrounding the Corridor		
	Corridor Segment	G&I Core Place	G&I Area
Census Data	Bear Creek M119 Corridor	City of Petoskey, Bay View CDP	Petoskey & Surrounding Townships
Total Population (2010)	291	5,803	14,568
People per Acre	0.56	1.66	0.36
People per Square Mile	357	1,063	228
Total Housing (2010)	324	3,853	8,514
Gross Neighborhood Density (per acre)	0.62	1.10	0.21
Study Area Size (Land Cover)			
Acres	522.30	3,494.40	40,825.60
Square Miles	0.82	5.46	63.79
Workers Living within Study Area	86	2,272	5,816
% with earnings \$1250/month or less	40%	29%	28%
% with earnings \$1251/month to \$3333/mo	onth 28%	42%	40%
% with earnings greater than \$3333/month	33%	30%	33%
Jobs Located within Study Area	962	8,675	12,129
Job Density (per acre)	1.84	2.48	0.30

Zoning						
District(s)		% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building
	Allow Residential Use			Lowest Density District	Highest Density District	Height
R-2A   R-2B   RR-1   B-2   I-1	60%	40%	0%	3.6	7.3	30 ft



**Pocket Parks** 

Wayfinding

**Public Art Installations** 

**Pedestrian Connections** 

No

Yes

Yes

Yes

Yes

**Iconic Buildings** 

Old Brewery

Yes

No

No

No

Corridor Street Name(s): E. Mitchell Road from Valley Ridge Road to Creekside Drive

Corridor Classification: Commercial/Industrial
Unit(s) of Government: Bear Creek Township

Length: 0.53 miles
Street Classification: Minor Arterial

2013 Traffic Volume(AADT): NA

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking No Street Parking

Transit Service: Friendship Centers of Emmet County - Senior Tran

Bike Lane: No
Entertainment Venues: No
Pedestrian Amenities: None
Walk Score 20

**Growth & Investment Strategy** 

**Identify Areas of Focus for G&I** 

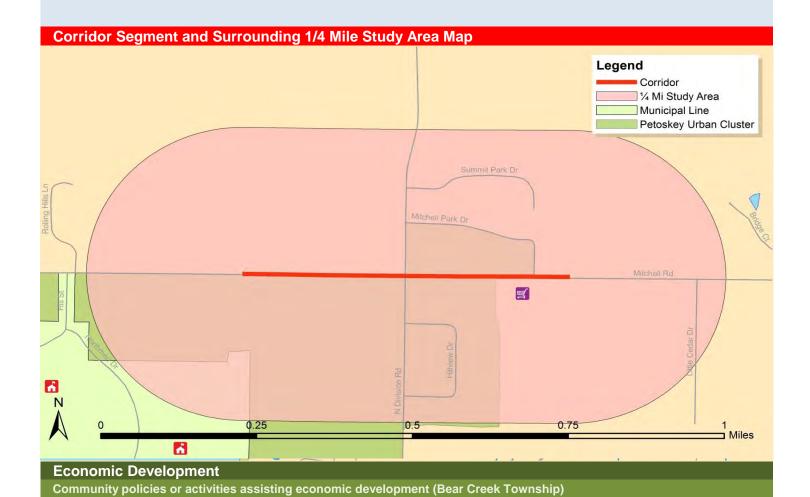
**Development Opportunities** 

**Publish Development Guide** 



#### **Corridor Overview**

The East Mitchell/South Division Corridor consists of a mix of commercial service businesses, auto-oriented retail, offices, and residential development.



No

No

Yes

Yes

**Community Economic Strategy** 

**Community Marketing Strategy** 

**Capital Improvement Plan** 

**Market Potential Development Sites** 

page 68 Bear Creek East Mitc	Bear Creek East Mitchell/South Division Corridor				
Study Area Summary for 1/4 Mile Area Surrounding the Corridor					
	Corridor Segment	G&I Core Place	G&I Area		
Census Data	Bear Creek East Mitchell/South Division Corridor	City of Petoskey, Bay View CDP	Petoskey & Surrounding Townships		
Total Population (2010)	945	5,803	14,568		
People per Acre	3.22	1.66	0.36		
People per Square Mile	2,061	1,063	228		
Total Housing (2010)	463	3,853	8,514		
Gross Neighborhood Density (per acre)	1.58	1.10	0.21		
Study Area Size (Land Cover)					
Acres	293.39	3,494.40	40,825.60		
Square Miles	0.46	5.46	63.79		
Workers Living within Study Area	387	2,272	5,816		
% with earnings \$1250/month or less	27%	29%	28%		
% with earnings \$1251/month to \$3333/month	44%	42%	40%		
% with earnings greater than \$3333/month	29%	30%	33%		
Jobs Located within Study Area	376	8,675	12,129		
Job Density (per acre)	1.28	2.48	0.30		

Zoning						
			% of Districts That Allow Mixed Use By Right			Max Building
District(s)				Lowest Density District	Highest Density District	Height
R-2B   R-2C   B-1   B-2	50%	50%	0%	7.3	10.9	30 ft



**Parks** 

**Pocket Parks** 

Wayfinding

**Public Art Installations** 

**Pedestrian Connections** 

No

**Iconic Buildings** 

No

No

No

No

No

## **Growth & Investment Area Study**

### **Census Class Definitions**

#### 2010 Census Urban and Rural Classification and Urban Area Criteria

The Census Bureau's urban-rural classification is fundamentally a delineation of geographical areas, identifying both individual urban areas and the rural areas of the nation. The Census Bureau's urban areas represent densely developed territory, and encompass residential, commercial, and other non-residential urban land uses.

For the 2010 Census, an urban area will comprise a densely settled core of census tracts and/or census blocks that meet minimum population density requirements, along with adjacent territory containing non-residential urban land uses as well as territory with low population density included to link outlying densely settled territory with the densely settled core. To qualify as an urban area, the territory identified according to criteria must encompass at least 2,500 people, at least 1,500 of which reside outside institutional group quarters. The Census Bureau identifies two types of urban areas:

Urbanized Areas (UAs) of 50,000 or more people;

Urban Clusters (UCs) of at least 2,500 and less than 50,000 people.

"Rural" encompasses all population, housing, and territory not included within an urban area.

Source: https://www.census.gov/geo/reference/ua/urban-rural-2010.html

### About Metropolitan and Micropolitan Statistical Areas

The United States Office of Management and Budget (OMB) delineates metropolitan and micropolitan statistical areas according to published standards that are applied to Census Bureau data. The general concept of a metropolitan or micropolitan statistical area is that of a core area containing a substantial population nucleus, together with adjacent communities having a high degree of economic and social integration with that core. Currently delineated metropolitan and micropolitan statistical areas are based on application of 2010 standards [PDF] (which appeared in the Federal Register on June 2010) to 2010 Census and 2006-2010 American Community Survey data. Current metropolitan and micropolitan statistical area delineations were announced by OMB effective February 2013.

Standard delineations of metropolitan areas were first issued in 1949 by the then Bureau of the Budget (predecessor of OMB), under the designation "standard metropolitan area" (SMA). The term was changed to "standard metropolitan statistical area" (MSA) in 1959, and to "metropolitan statistical area" (MSA) in 1983. The term "metropolitan area" (MA) was adopted in 1990 and referred collectively to metropolitan statistical areas (MSAs), consolidated metropolitan statistical areas (CMSAs), and primary metropolitan statistical areas (PMSAs). The term "core based statistical area" (CBSA) became effective in 2000 and refers collectively to metropolitan and micropolitan statistical areas.

OMB has been responsible for the official metropolitan areas since they were first delineated, except for the period 1977 to 1981, when they were the responsibility of the Office of Federal Statistical Policy and Standards, Department of Commerce. The standards for delineating metropolitan areas were modified in 1958, 1971, 1975, 1980, 1990, 2000, and 2010.

#### Delineating Metropolitan and Micropolitan Statistical Areas

The 2010 standards provide that each CBSA must contain at least one urban area of 10,000 or more population. Each metropolitan statistical area must have at least one urbanized area of 50,000 or more inhabitants. Each micropolitan statistical area must have at least one urban cluster of at least 10,000 but less than 50,000 population.

Under the standards, the county (or counties) in which at least 50 percent of the population resides within urban areas of 10,000 or more population, or that contain at least 5,000 people residing within a single urban area of 10,000 or more population, is identified as a "central county" (counties). Additional "outlying counties" are included in the CBSA if they meet specified requirements of commuting to or from the central counties. Counties or equiva-

lent entities form the geographic "building blocks" for metropolitan and micropolitan statistical areas throughout the United States and Puerto Rico.

If specified criteria are met, a metropolitan statistical area containing a single core with a population of 2.5 million or more may be subdivided to form smaller groupings of counties referred to as "metropolitan divisions."

As of February 2013, there are 381 metropolitan statistical areas and 536 micropolitan statistical areas in the United States. In addition, there are 7 metropolitan statistical areas and 5 micropolitan statistical areas in Puerto Rico.

Source: http://www.census.gov/population/metro/about/

#### **Land Area**

#### Data Source

2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions and Census Places.

### **Traffic Count Data**

#### AADT Data sources

Traffic count data was sourced from the Michigan Department of Transportation's (MDOT) Traffic Monitoring Information System (TMIS) for state trunklines or from local municipalities if available. All counts utilize the Annual Average Daily Traffic (AADT) counts, which in most cases are an annual average estimate of daily traffic based on an adjustment of a sample conducted for a short period of time (short count). For short-count sites, counts are estimated by factoring a short count using seasonal and day-of-week adjustment factors. For continuous sites, counts are calculated by summing the Annual Average Days of the Week and dividing by seven.

For the purpose of this report, if the identified commercial corridor has more than one AADT count, the largest count was utilized.

# **Corridor Study Areas**

### **Population Density**

Population Density information contain in this report is based on the 2010 US Census and is calculated by taking the total number of individual as reported for the geographic area reported and dividing it by the number of miles or acres of land area.

#### Max Dwelling Density for Districts in Corridors

Max Dwelling Density for Districts in Corridors is based on parcel or site density. Used by builders/developers and controlled by the zoning ordinance within jurisdictions that have zoning, site density is determined by the total dwelling/housing units divided by the total parcel size. For determining Max Dwelling Density, the zoning ordinance was reviewed for current permitted maximum site density. In cases were no specific maximum dwelling limits is explicitly stated, a review of the ordinance was undertaken and a theoretical maximum was calculated taking into account maximum coverages, parking requirements, buffer areas, building height and story limits, and any other code restricting dwelling permitting. The actual permissible density would be based on the specific site constraints and determined by completion of a land use permit process conducted under the respected zoning authority. The calculated theoretical maximums contained in this report should in no way be relied upon for the determination of actual permissible site dwelling density.

#### Gross Neighborhood Density

Gross neighborhood Density is the total dwelling/housing unit count over the total land area being considered. Parcel or site density will in most cases be greater than gross neighborhood density because it does not include land uses such as streets, parks, and other public land uses that dilute gross neighborhood density. While parcel or site density is important for zoning, gross neighborhood density is important for determining public services, transportation infrastructure, transit, and economic activity potential.

### Job & Worker Density

Job Density is based on 2012 data contained in the LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. Job count data by location is provided at the Census Block level by LODES, which is then used by culling the data based on which Census Blocks are contained by the geographical extent of the specific data being presented.

Worker Density is based on 2012 data contained in the LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. Worker count data (those individuals currently employed and residing in the area of study) is provided at the Census Block level by LODES, which is then used by culling the data based on which Census Blocks are contained by the geographical extent of the specific data being presented.

#### **Retail Sales**

#### Data Source

Retail data was sourced from Environmental Systems Research Institute, Inc. (Esri) by the purchase of a Complete State Retail MarketPlace Data License for the State of Michigan by all levels of geography.

### Whitepaper Statement from Esri

Esri has combined the latest Consumer Expenditure Surveys (CEX), 2006–2007, from the Bureau of Labor Statistics (BLS) to estimate current spending patterns. The continuing surveys include a Diary Survey for daily purchases and an Interview Survey for general purchases. The Diary Survey represents record keeping by consumer units for two consecutive weeklong periods. This component of the CEX collects data on small, daily purchases that could be overlooked by the quarterly Interview Survey. The Interview Survey collects expenditure data from consumers in five interviews conducted every three months. Esri integrates data from both surveys to provide a comprehensive database on all consumer expenditures. To compensate for the relatively small CEX survey bases and the variability of single-year data, expenditures are averaged from the 2006–2007 surveys.

Esri computes Market Potential by combining 2011 Tapestry™ Segmentation data with Doublebase® 2009 data from GfK MRI. Doublebase 2009 is an integration of information from four consumer surveys. Each survey respondent can be identified by Tapestry segment, so a rate of consumption by Tapestry segment can be determined for a product or service for any area.

The Expected Number of Consumers (households or adults) for a product or service in an area is computed by applying the consumption rate for Tapestry market segment "n" to households or adults in the area belonging to Tapestry segment "n," and summing across 65 Tapestry segments.

Expected Number of Consumers = 
$$\sum_{n=1}^{65} (Count_n \times Consumption \ Rate_n)$$

The *Local Consumption Rate* for a product or service for an area is computed as the ratio of the expected number of consumers for a product or service in the area to the total households or adults in the area.

$$Local \ Consumption \ Rate = \frac{Expected \ Number \ of \ Consumers}{Base \ Count}$$

The *Market Potential Index* for a product or service for an area is the ratio of the local consumption rate for a product or service for the area to the US consumption rate for the product or service, multiplied by 100.

$$\textit{Market Potential Index} \ = \frac{\textit{Local Consumption Rate}}{\textit{US Consumption Rate}} \times 100$$

Esri's Market Potential database includes data for more than 2,200 items, organized into 35 categories, representing goods, services, attitudes, and activities collected from GfK MRI surveys. Unless otherwise noted, each item refers to consumer spending or behavior in a 12-month period. The a or h following the five-digit product code denotes a consumer base of adults or households, respectively.

Products and services, such as apparel items, types of digital cameras, video game systems, financial accounts and services, health-related items, Internet activities, satellite TV providers, personal care services, and detailed information about cell phones/PDAs (brands, service providers, average monthly bills, and purchase locations), are included. A product description was revised since the last Market Potential update if a product change was made by GfK MRI, if ranges had to be collapsed, or if more clarification was required. A product was dropped since the last Market Potential update if it did not pass a sample size test, became outdated or unnecessary, or no longer exists in the GfK MRI database.

#### Retail Classification:

Leakage is defined as the Potential Sales less the Total Sales. All inputs are as reported by Esri.

For the purposes of determining the *Retail Classification*, Sales, Potential Sales, and Leakage are taken from the Growth & Investment Area. A Retail Hub is defined in this study as having a negative retail leakage. If the Retail Sales for the Growth & Investment Area are greater than Potential Sales in the county in which it is located and the county's leakage is negative, then the Retail Hub is classified as a Regional Hub. In the absence of these two conditions, then the Retail Hub is classified as a Local Hub.

### Seasonal Housing:

The Seasonal Housing percentage is determined by the dividing the Data Dictionary Reference Name H0050006 "For seasonal, recreational, or occasional use" of the H5 Table "Vacancy Status, Universe: Vacant housing units Total:" of the 2010 Census Summary File 1 by the total number of Housing Units.

The U.S. Census Bureau's 2010 Census Summary File 1. Summary File 1 tables provide the most detailed counts available so far from the 2010 Census, including cross-tabulations of age, sex, households, families, relationship to householder, housing units, detailed race and Hispanic or Latino origin groups, and group quarters. The statistics are available for a variety of geographic areas, with most tables available down to the block or census tract level.

Summary File 1 (SF 1) contains the data compiled from the questions asked of all people and about every housing unit. Population items include sex, age, race, Hispanic or Latino origin, household relationship, household type, household size, family type, family size, and group quarters. Housing items include occupancy status, vacancy status, and tenure (whether a housing unit is owner-occupied or renter-occupied).

There are 177 population tables (identified with a "P") and 58 housing tables (identified with an "H") shown down to the block level; 82 population tables (identified with a "PCT") and 4 housing tables (identified with an "HCT") shown down to the census tract level; and 10 population tables (identified with a "PCO") shown down to the county level, for a total of 331 tables. The SF 1 Urban/Rural Update added 2 PCT tables, increasing the total number to 333 tables. There are 14 population tables and 4 housing tables shown down to the block level and 5 population tables shown down to the census tract level that are repeated by the major race and Hispanic or Latino groups.

SF 1 includes population and housing characteristics for the total population, population totals for an extensive list of race (American Indian and Alaska Native tribes, Asian, and Native Hawaiian and Other Pacific Islander) and Hispanic or Latino groups, and population and housing characteristics for a limited list of race and Hispanic or Latino groups. Population and housing items may be cross-tabulated. Selected aggregates and medians also are provided. A complete listing of subjects in this file is found in the "Subject Locator" chapter of the 2010 Census Summary File 1 Technical Documentation

Summary File 1 (SF 1) is released as individual files for each of the 50 states, the District of Columbia, and Puerto Rico, and for the United States. The tables (matrices) are identical for all files, but the geographic coverage differs. SF 1 for states was released from June–August 2011.

# **Sprawl**

The Sprawl Assessment is based the ratio of Core Place Housing Units to the total Growth & Investment Area Housing Units as reported by the 2010 Census minus the ratio of Core Place Housing Units to the total Growth & Investment Area Housing Units as reported by the 2000 Census.

 $\frac{2010\ \textit{Core Place Housing Units}}{2010\ \textit{Growth \& Invesment Housing Units}} - \frac{2000\ \textit{Core Place Housing Units}}{2000\ \textit{Growth \& Invesment Housing Units}}$ 

Other methods of quantifying sprawl such as using satellite spectral data to indicate changes in impervious surface over time, maybe investigated for future study. However, were beyond the scope of this project.

## **Population**

### 2000-2010:

The P1 "TOTAL POPULATION" table of the 2000 and 2010 Census's Summary File 1 provided the data to calculate the Growth & Investment Area and Core Place population change.

## Average Age:

PCT12 "SEX BY AGE" table of the 2000 and 2010 Census's Summary File 1 provided the data to calculate the average age for the Growth & Investment Area and Core Place populations and the percentage change from 2000-2010.

## Demographic Shifts:

Demographic Shifts used the PCT12 "SEX BY AGE" table of the 2000 and 2010 Census's Summary File 1 to determine the population of the six current generational cohorts (living at the time of the 2010 census) for both 2000 and 2010 and then calculating the percentage change in each generational cohorts population. Generational cohorts' birth by year range can fluctuate depending on the source. Table 1 lists the generational cohort and the corresponding range for the year of birth used for this study. (Novak n.d.)

Table 1				
Generational Cohorts	Born Between			
GI Generation (Greatest)	1901	1926		
Silent Generation	1927	1945		
Baby Boomers	1946	1964		
Generation X	1965	1980		
Millennial Generation	1981	2000		
Generation Z	2001	Present		

The study targeted the Silent Generation, Baby Boomers, Generation X, and the Millennial Generation for changes in cohort population. The Generation Z was not alive at the time of the 2000 census and the percentage change could not be calculated and the GI Generation population was less the 3% for the total 2010 Northwest Michigan population and was not included in the targeted cohorts.

### **Talent Jobshed**

#### **Data Source**

All Jobshed information utilized data from LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. Data files are state-based and organized into three types: Origin-Destination (OD), Residence Area Characteristics (RAC), and Workplace Area Characteristics (WAC), all at census block geographic detail. Data is available for most states for the years 2002–2011.

Workers Living within Study Area, Worker's Earnings, and Jobs Located in Area and their resultant density calculations utilized data from the Michigan RAC and WAC databases. The Origin-Destination database file for Michigan was not available at the time the Commuting Data was analyzed, so the OnTheMap application was used to download data sets for each of the Census Places and County Subdivisions that comprise the Growth & Investment Areas. The available data from OnTheMap locates the worker's residence within a 2010 Census Block. The centroid, as established by the Census Tiger Files, was used to calculate the start location of the commute route distance and time. Without the individual employment locations within the Growth & Investment being contained in the OnTheMap datasets, the end location for the commute route distance and time was determined by using a point along a major commercial corridor of the Census Places and County Subdivisions that comprise the Growth

& Investment Areas. The data was filtered to utilize only workers living in Michigan as workers living out of the state would have low propensity for daily commutes. The start and end locations for filtered worker commutes was then processed by a Visual Basic for Applications routine that used the Google Distance Matrix API to calculate route distance and time for 35,524 pairs.

The Google Distance Matrix API is a service that provides travel distance and time for a matrix of origins and destinations. The information returned is based on the recommended route between start and end points, as calculated by the Google Maps API, and consists of rows containing duration and distance values for each pair.

LEHD Origin-Destination Employment Statistics (LODES)1 are the job data that are delivered in the OnTheMap application. This document describes the contents of the LODES Version 7 dataset in the context of the OnTheMap application.

U.S. Census Bureau. 2013. LODES Data. Longitudinal-Employer Household Dynamics Program. http://lehd.ces.census.gov/applications/help/onthemap.html

U.S. Census Bureau. 2013. OnTheMap Application. Longitudinal-Employer Household Dynamics Program. http://onthemap.ces.census.gov/

#### Overview

As with previous versions of data released in OnTheMap, LODES Version 7 is a partially synthetic dataset that describes geographic patterns of jobs by their employment locations and residential locations as well as the connections between the two locations. These data and marginal summaries are tabulated by several categorical variables. More detailed information on the variables and scope of the data follows.

### Job Definition

In the context of LODES and OnTheMap, a job is counted if a worker is employed with positive earnings during the reference quarter as well as in the quarter prior to the reference quarter. This is called a "beginning of quarter" job because the assumption is that the worker was employed on the first day of the reference quarter.

### Years

LODES Version 7 includes data for 2002-2011, for which Quarter 2 (April – June) is the reference period in each year. Not all states have data available for each year and not every variable is available in each year.

## Geographical Vintage

LODES Version 7 and OnTheMap use 2010 census blocks, defined for the 2010 Decennial Census, as their base geography. Data released in previous versions of LODES and OnTheMap used 2000 census blocks as the geographical base. For data previously released in 2000 census blocks, the LODES data has been "crosswalked" or "transformed" into the base of 2010 census blocks. Further information on how OnTheMap and LODES implement the 2010 census blocks can be found in OnTheMap: Updating the Base Geography

### **Data Structure**

The overall file structure of LODES Version 7 remains similar to that of previous versions. The origin-destination (OD) matrix is made available by 10 different "labor market segments." The area characteristic (AC) data – summary margins by residence block and workplace block – contain additional variables including age, earnings, and industry plus the newer variables outlined below.

In OnTheMap, the OD data are used to produce the Destination, Distance/Direction, Inflow/Outflow, and Paired Area analyses. The AC data are used to produce the Area Profile and Area Comparison analyses.

## **Population & Housing Trends**

#### **Data Source**

**Population and Housing Data:** The 2000 and 2010 Census Summary File 1 data tables provide the most detailed information available so far from the 2000 Census and 2010 Census about a community's entire population, including cross-tabulations of age, sex, households, families, relationship to householder, housing units, detailed race and Hispanic or Latino origin groups, and group quarters. For Census Designated Places (CDPs) that were first established in 2010, the 2010 Census Block Relationship files were utilized to process the 2000 Census Summary File 1 block data to calculate the 2000 data for these CDPs.

The 2010 Census Block Relationship files are provided as a tool to help data users compare the universe of Census 2000 blocks to the universe of 2010 Census blocks. From these files, data users may determine how 2000 blocks now relate to 2010 Census blocks and vice versa.

**Geographic Areas:** 2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions and Census Places.

## Core Place and G&I Area Geographic Extents

The Core Place and G&I Area geographic extents were determined to provide the maximum continuity across differing datasets from governmental and private sources. In cases where CDPs were utilized, data years of predating the establishment of the CDP were unavailable causing gaps in total counts and percentage changes.

### **Gross Neighborhood Density**

Gross neighborhood Density is the total dwelling/housing unit count over the total land area being considered. Parcel or site density will in most cases be greater than gross neighborhood density because it does not include land uses such as streets, parks, and other public land uses that dilute gross neighborhood density. While parcel or site density is important for zoning, gross neighborhood density is important for determining public services, transportation infrastructure, transit, and economic activity potential.

#### Total Households

The Percentage of Households without Children (under 18) was calculated by adding "Nonfamily households:" Table P0180007 together with "2-or-more-person household: Family households: Husband-wife family: No own children under 18 years" Table P0190009 from the 2010 Census Summary File 1 and then dividing by the total number of households.

#### **Commercial Corridors**

### **Corridor Length**

Corridor Lengths were determined by plotting the described commercial corridor from the Commercial Corridor Inventory Interviews with local units of government into the Google Earth desktop application, exporting the KML files for import to ArcMAP and projecting them to calculate the linear extent of the defined corridor in feet.

### **Population & Housing Density**

To calculate Population and Housing density, the TIGER/Line® with Selected Demographic and Economic Data Shapefiles for the 2010 Census were used for Census Block level data. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull population and housing data for any Census Block either fully or partially contained within the buffer.

## Job & Worker Density

To calculate Job and Worker density, All Job and Worker information utilized data from LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. The 2011 (latest year available) Residence Area Characteristics (RAC) and Workplace Area Characteristics (WAC) data files were used at the Census Block level. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull job and worker data for any Census Block either fully or partially contained within the buffer.

### **Growth & Investment Core Place Map with Commercial Corridors**

The map of commercial corridors were defined by entering public road center points (latitude and longitude coordinates) along the extent provided by the Commercial Corridor Inventory Interviews into Google Earth with the Add Path tool. A sufficient number of points were used to maintain road radius conformity. The full 10 county commercial corridors studies contained 1,722 individual latitude and longitude coordinates. The Google Earth paths were then exported into a KML file for import into ArcMap. The corridors where combined with data from the 2010 TIGER/Line® Shapefiles of Census Places and Counties and road geographic features data from the Michigan Department of Technology, Management, & Budget's Geographic Data Library Catalog.

## **Housing Data**

Housing data, other than counts provided by the 2010 Census, is sourced from the US Census Bureau's American Community Survey (ACS) 2008-2012 5 Year Detailed Tables.

The American Community Survey (ACS) is a part of the U.S. Census Bureau's Decennial Census Program and is designed to provide more current demographic, social, economic, and housing estimates throughout the decade. The ACS provides information on more than 40 topics, including education, language ability, the foreign-born, marital status, migration and many more. Each year the survey randomly samples around 3.5 million addresses and produces statistics that cover 1-year, 3-year, and 5-year periods for geographic areas in the United States and Puerto Rico. The 5-year estimates are available for many distinct geographies including the nation, all 50 states, DC, Puerto Rico, counties, places, census tracts, and block groups. ACS tables are published on the Census Bureau's American FactFinder (AFF) website, factfinder2.census.gov, and are available for download in several forms. (US Census Bureau 2014)

Since the Detailed Tables contain a large number of cells, the tables are stored in a series of files with only the data from the tables, without such information as the title of the tables, the description of the rows, and the names of the geographic areas. That information is in other files that the user must merge with the data files to reproduce the tables. This study created a data search tool to pull detailed table data from the assembly of the Michigan ASCII data files for each sequence number files containing the subject data (Sequences: 58, 62, 63, 64, 104, 105, 106, 107, 108).

The ACS estimates are based on data from a sample of housing units and people in the population, not the full population. For this reason, ACS estimates have a degree of uncertainty associated with them, called sampling error. This study does not list the sampling error for each data point due to the statistical complexity of combining margins of error in Growth & Investment Areas containing multiple municipalities.

## Housing Efficiency Rating (Average HERS)

The Home Energy Rating System (HERS) Index is the industry standard by which a home's energy efficiency is measured. It's also the nationally recognized system for inspecting and calculating a home's energy performance. It was developed by the Residential Energy Services Network (RESNET) an independent, non-profit organization to help homeowners reduce the cost of their utility bills by making their homes more energy efficient. To calculate a home's HERS Index Score, a certified RESNET HERS Rater does an energy rating on your home and compares the data against a 'reference home'— a designed-model home of the same size and shape as the actual home, so your score is always relative to the size, shape and type of house you live in.

To calculate the Average HERS score for homes in the specified geography the Total Built by Year was used together with an average HERS rating for the respective vintage of home construction to calculate an overall Average HERS score. (Hodgson 2008)

$$Average \; \textit{HERS} \; = \frac{\sum_{i=1}^{9} \textit{Number of Vintage Homes} \times \textit{Average HERS Rating by Vintage}}{\textit{Total Homes}}$$

### Percentage Built by Year & Average Year

Sequence file 104 of the ACS 2008-2012 5 Year Detailed Table was used to provide total counts of housing units by vintage year. The housing counts were then combined in cases of multiple municipalities or used separately to calculate the *Percentage Built by Year*.

#### Median Value

Sequence file 106 of the ACS 2008-2012 5 Year Detailed Table was used to provide median value for each of the municipalities comprising the Growth & Investment Area. If the Core Place or G&I Area consists of a single municipality, then a Median Value is given for these geographies.

### Home Heating Fuel

Sequence file 104 of the ACS 2008-2012 5 Year Detailed Table was used to provide total counts of housing units by fuel used in heating. The counts were then combined in cases of multiple municipalities or used separately to calculate the *Percentage of Homes Using Natural Gas, Percentage of Homes Using Propane, Percentage of Homes Using Wood, and Percentage of Homes Using Solar Energy.* 

### **Personal Income**

Personal Income data is sourced from the US Census Bureau's American Community Survey (ACS) 2008-2012 5 Year Detailed Tables.

## Median Household Income (2012 Dollars)

Sequence file 63 of the ACS 2008-2012 5 Year Detailed Table was used to provide *Median Household Income* value for each of the municipalities comprising the Growth & Investment Area. If the Core Place or G&I Area consists of a single municipality, then a Median Value is given for these geographies.

### Per Capital Annual Income (2012 Dollars)

Sequence file 64 of the ACS 2008-2012 5 Year Detailed Table was used to provide Per Capita Annual Income and Aggregate Annual Income values for each of the municipalities comprising the Growth & Investment Area. Total Calculate the Core Place and G&I Area Per Capita Annual Incomes the Aggregate Annual Income was divided by the Per Capita Annual Income to derive the population number used in the Per Capita calculation. The Aggregate Annual Income for each unit of government was then summed together and divided by the sum of the Per Capita populations to provide the Per Capita Annual Income.

$$Per\ Capita\ Income = \frac{\sum_{i=1}^{n} Aggregate\ Annual\ Income_{i}}{\sum_{i=1}^{n} \frac{Aggregate\ Annual\ Income_{i}}{Per\ Capita\ Annual\ Income_{i}}}$$

 $i = the \ data \ for \ each \ unit \ of \ government \ contained \ in \ the \ geographic \ extent$ 

n = to the total number of units of government in the geographic extent

#### Household Income Distribution Chart

Sequence file 58 of the ACS 2008-2012 5 Year Detailed Table was used to provide number of households falling in each of the distribution segments for each of the municipalities comprising the Growth & Investment Area. If the Core Place or G&I Area consists of a single municipality, then the municipal household distribution is used to determine the percentage falling in each income segment. If there are multiple municipalities, then the household income segment counts are summed for all municipalities then divided by the sum of all the households to determine the percentage distribution.

## **Policy**

All policy data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

## **Zoning**

Zoning data was sourced from the respective municipality's Zoning Ordinances and Maps. Commercial Corridor extents were used to pull which Districts were bisected or bordered by the corridor. The respective District standards were then used to determine maximum dwelling densities, permitted uses and review criteria, and district standards for heights, parking requirements, maximum lot coverages, and setbacks. In cases where explicit dwelling densities were not contained in the zoning ordinance, a theoretical maximum was calculated taking into ac-

count lot coverages, parking requirement, minimum unit counts and standard assumptions for building envelope ratios (specific formulas for each included district are available upon request). These maximums are theoretical and are not based on specific site constraints. As such they should not be relied upon for site planning or determinations of value. Contact the applicable Zoning Administrator for inquiries about any specific determinations. For a list of contacts please see the municipality's website or the Networks Northwest County Guides to Permitting and Zoning.

(http://www.nwm.org/planning/resources/publications/permitting-and-zoning-guides.html)

### Infrastructure

### Municipal Water Service

All Municipal Water Service data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

### Municipal Sewer Service

All Municipal Sewer Service data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

#### **Broadband**

All data on Broadband available was sourced from Connect Michigan's technology service maps. Connect Michigan is a subsidiary of Connected Nation and operates as a non-profit in the state of Michigan. Connect Michigan partnered with the Michigan Public Service Commission to engage in a comprehensive broadband planning and technology initiative as part of National effort to map and expand broadband. The program began by gathering provider data to form a statewide broadband map and performing statewide business and residential technology assessments, but has since progressed to working with communities on community plans. (Connect Michigan 2014) Ultra fiber service over 1 Gbps (Gigabits per Second) was sourced from the National Broadband Map (<a href="http://www.broadbandmap.gov/technology">http://www.broadbandmap.gov/technology</a>) as updated on 12/31/2013. (National Telecommunications & Information Administration 2013)

### Energy

All Energy Infrastructure data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

## **Placemaking Elements**

## Select Placemaking Elements

All data for the *Parks and Pocket Parks* and *Pedestrian Connections* was sourced from data provided during the Commercial Corridor Inventory Interviews with representatives of local units of government. The *Theaters & Entertainment Venues* and *Grocery Store* data was sourced by a search of business listings from several sources including Google, Yellow Pages, and Fandango.com.

#### Job Population Ratio

The rationale for including the ration of *Jobs to Population Ratio* in Commercial Corridors is based on research that finds that in mixed-use developments external vehicle trips decline substantially as the number of jobs and the resident population become more balanced. (Reid Ewing 2013) Ratios approaching 1 indicated balance jobs and population. The ration was calculated by dividing the job density by the population density. Ratios of less than 1 have higher resident populations than the number of jobs. Ratios greater than 1 have a higher number of jobs to the resident population.

To calculate Job density, Job information utilized data from LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. The 2011 (latest year available) Workplace Area Characteristics (WAC) data files were used at the Census Block level. A ¼ mile circumference

buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull job data for any Census Block either fully or partially contained within the buffer.

To calculate Population density, the TIGER/Line® with Selected Demographic and Economic Data Shapefiles for the 2010 Census were used for Census Block level data. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull population data for any Census Block either fully or partially contained within the buffer.

### **Talent Jobshed**

All Jobshed information utilized 2011 data from LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. Data files are state-based and organized into three types: Origin-Destination (OD), Residence Area Characteristics (RAC), and Workplace Area Characteristics (WAC), all at census block geographic detail. Data is available for most states for the years 2002–2011.

Workers Living within Study Area, Worker's Earnings, and Jobs Located in Area and their resultant density calculations utilized data from the Michigan RAC and WAC databases. The Origin-Destination database file for Michigan was not available at the time the Commuting Data was analyzed, so the OnTheMap application was used to download data sets for each of the Census Places and County Subdivisions that comprise the Growth & Investment Areas. The available data from OnTheMap locates the worker's residence within a 2010 Census Block. The centroid, as established by the Census Tiger Files, was used to calculate the start location of the commute route distance and time. Without the individual employment locations within the Growth & Investment being contained in the OnTheMap datasets, the end location for the commute route distance and time was determined by using a point along a major commercial corridor of the Census Places and County Subdivisions that comprise the Growth & Investment Areas. The data was filtered to utilize only workers living in Michigan as workers living out of the state would have low propensity for daily commutes. The start and end locations for filtered worker commutes was then processed by a Visual Basic for Applications routine that used the Google Distance Matrix API to calculate route distance and time for 35,524 pairs.

The Google Distance Matrix API is a service that provides travel distance and time for a matrix of origins and destinations. The information returned is based on the recommended route between start and end points, as calculated by the Google Maps API, and consists of rows containing duration and distance values for each pair.

LEHD Origin-Destination Employment Statistics (LODES)1 are the job data that are delivered in the OnTheMap application. This document describes the contents of the LODES Version 7 dataset in the context of the OnTheMap application.

U.S. Census Bureau. 2013. LODES Data. Longitudinal-Employer Household Dynamics Program. http://lehd.ces.census.gov/applications/help/onthemap.html

U.S. Census Bureau. 2013. OnTheMap Application. Longitudinal-Employer Household Dynamics Program. http://onthemap.ces.census.gov/

#### Overview

As with previous versions of data released in OnTheMap, LODES Version 7 is a partially synthetic dataset that describes geographic patterns of jobs by their employment locations and residential locations as well as the connections between the two locations. These data and marginal summaries are tabulated by several categorical variables. More detailed information on the variables and scope of the data follows.

### Job Definition

In the context of LODES and OnTheMap, a job is counted if a worker is employed with positive earnings during the reference quarter as well as in the quarter prior to the reference quarter. This is called a "beginning of quarter" job because the assumption is that the worker was employed on the first day of the reference quarter.

#### <u>Years</u>

LODES Version 7 includes data for 2002-2011, for which Quarter 2 (April – June) is the reference period in each year. Not all states have data available for each year and not every variable is available in each year.

### Geographical Vintage

LODES Version 7 and OnTheMap use 2010 census blocks, defined for the 2010 Decennial Census, as their base geography. Data released in previous versions of LODES and OnTheMap used 2000 census blocks as the geographical base. For data previously released in 2000 census blocks, the LODES data has been "crosswalked" or "transformed" into the base of 2010 census blocks. Further information on how OnTheMap and LODES implement the 2010 census blocks can be found in OnTheMap: Updating the Base Geography

### **Data Structure**

The overall file structure of LODES Version 7 remains similar to that of previous versions. The origin-destination (OD) matrix is made available by 10 different "labor market segments." The area characteristic (AC) data – summary margins by residence block and workplace block – contain additional variables including age, earnings, and industry plus the newer variables outlined below.

In OnTheMap, the OD data are used to produce the Destination, Distance/Direction, Inflow/Outflow, and Paired Area analyses. The AC data are used to produce the Area Profile and Area Comparison analyses.

### **Commuting Workers**

Commuting Workers is the subset of Jobs Located in Area that is defined by those jobs were the commute route is from 2 to 175 miles. This LODES data does not sample for weekly commutes. As a result, this study chose to filter job commuting data based on these assumptions for plausible commute distances.

### **Total Daily One Way Commute for all Commuters**

The *Total Daily One Way Commute for all Commuters* (TDOWC) is computed by taking all commuters as filtered by the 2 to 175 mile assumption and calculating the total daily one-way route distance in miles and time in minutes.

### **Total Annual Commute for all Commuters**

The *Total Annual Commute for all Commuters Distance (TACD)* is computed by taking all commuters as filtered by the 2 to 175 mile assumption and multiplying the total daily one-way route distance in miles by two for the daily commute distance then by 5.25 for the weekly distance then by 50 for the annual distance. The *Total Annual Commute for all Commuters Time (TACT)* is computed by taking all commuters as filtered by the 2 to 175 mile assumption and multiplying the total daily one-way route time in minutes by two for the daily commute time, then by 5.25 for the weekly time, then by 50 for the annual time, then dividing by 60 to arrive at the total annual time in hours.

```
TACD = TDOWCD \times Round Trip Commute (2) \times Days in Work Week (5.25) \times Work Weeks in Year (50)
```

 $TACT = TDOWCT \times Round\ Trip\ Commute\ (2) \times Days\ in\ Work\ Week\ (5.25) \times Work\ Weeks\ in\ Year\ (50) \div 60$ 

### **Annual Commuting Costs**

The *Total Fuel Cost* is computed by taking the Total Annual Commute for all Commuters Distance and multiplying it by the cost of fuel per gallon (\$3.15) and dividing by the fleet average from the 2003 CAFÉ Standards (20.7 Miles Per Gallon).

```
Total Annual Fuel Cost = TDOWCD \times Fuel \ Price \ (\$3.15) \div FleetAverage \ MPH \ (20.7)
```

The *Total Cost (IRS 2014 Standard Mileage Rate)* is computed by taking the Total Annual Commute for all Commuters Distance and multiplying it by the cost per mile from the 2014 Internal Revenue Service Standard Mileage Rate (\$.56).

Total Commuting Cost Total Cost (IRS) =  $TDOWCD \times 2014$  IRS Standard Mileage Rate(\$.56)

#### **Average Annual Per Worker Commute**

The Average Annual Per Worker Commute Distance is computed by dividing the Total Annual Commute for all Commuters by the number of Commuting Workers.

Average Annual Per Worker Commute Distance =  $TACD \div Commuting Workers$ 

The Average Annual Per Worker Commute Time is computed by dividing the Total Annual Commute for all Commuters by the number of Commuting Workers.

Average Annual Per Worker Commute Distance =  $TACT \div Commuting Workers$ 

The Average Annual Per Worker Commute Total Cost is computed by dividing the Annual Commuting Cost Total Cost (IRS 2014 Standard Mileage Rate) by the number of Commuting Workers.

Average Annual Per Worker Commute Distance =  $TACD \div Commuting Workers$ 

## **Retail Activity**

Retail data was sourced from Environmental Systems Research Institute, Inc. (Esri) by the purchase of a Complete State Retail MarketPlace Data License for the State of Michigan by all levels of geography.

#### Total Retail Sales

Whitepaper Statement from Esri: Esri has combined the latest Consumer Expenditure Surveys (CEX), 2006–2007, from the Bureau of Labor Statistics (BLS) to estimate current spending patterns. The continuing surveys include a Diary Survey for daily purchases and an Interview Survey for general purchases. The Diary Survey represents record keeping by consumer units for two consecutive weeklong periods. This component of the CEX collects data on small, daily purchases that could be overlooked by the quarterly Interview Survey. The Interview Survey collects expenditure data from consumers in five interviews conducted every three months. Esri integrates data from both surveys to provide a comprehensive database on all consumer expenditures. To compensate for the relatively small CEX survey bases and the variability of single-year data, expenditures are averaged from the 2006–2007 surveys.

Products and services, such as apparel items, types of digital cameras, video game systems, financial accounts and services, health-related items, Internet activities, satellite TV providers, personal care services, and detailed information about cell phones/PDAs (brands, service providers, average monthly bills, and purchase locations), are included. A product description was revised since the last Market Potential update if a product change was made by GfK MRI, if ranges had to be collapsed, or if more clarification was required. A product was dropped since the last Market Potential update if it did not pass a sample size test, became outdated or unnecessary, or no longer exists in the GfK MRI database.

### **Total Potential Retail Sales**

Esri computes Market Potential by combining 2011 Tapestry<sup>TM</sup> Segmentation data with Doublebase® 2009 data from GfK MRI. Doublebase 2009 is an integration of information from four consumer surveys. Each survey respondent can be identified by Tapestry segment, so a rate of consumption by Tapestry segment can be determined for a product or service for any area.

The Expected Number of Consumers (households or adults) for a product or service in an area is computed by applying the consumption rate for Tapestry market segment "n" to households or adults in the area belonging to Tapestry segment "n," and summing across 65 Tapestry segments.

Expected Number of Consumers = 
$$\sum_{n=1}^{65} (Count_n \times Consumption \ Rate_n)$$

The *Local Consumption Rate* for a product or service for an area is computed as the ratio of the expected number of consumers for a product or service in the area to the total households or adults in the area.

$$Local \ Consumption \ Rate = \frac{Expected \ Number \ of \ Consumers}{Base \ Count}$$

The *Market Potential Index* for a product or service for an area is the ratio of the local consumption rate for a product or service for the area to the US consumption rate for the product or service, multiplied by 100.

$$\textit{Market Potential Index } = \frac{\textit{Local Consumption Rate}}{\textit{US Consumption Rate}} \times 100$$

Esri's Market Potential database includes data for more than 2,200 items, organized into 35 categories, representing goods, services, attitudes, and activities collected from GfK MRI surveys. Unless otherwise noted, each item refers to consumer spending or behavior in a 12-month period. The *a* or *h* following the five-digit product code denotes a consumer base of adults or households, respectively.

### Leakage

Leakage is defined as the Potential Sales less the Total Sales. All inputs are as reported by Esri.

#### Classification:

For the purposes of determining the *Classification*, Sales, Potential Sales, and Leakage are used for the Growth & Investment Area and County to determine whether it is a Retail Hub and if its classified as a Local Hub or Regional Hub for the purpose of this study. A Retail Hub is defined in this study as having a negative retail leakage. If the Retail Sales for the Growth & Investment Area are greater than Potential Sales in the county in which it is located and the county's leakage is negative, then the Retail Hub is classified as a Regional Hub. In the absence of these two conditions, then the Retail Hub is classified as a Local Hub.

### Sales by Retail Store Type

Ersi in the Retail MarketPlace Dataset contains 44 different types of retail store data. The sample of retail activity by store type included in this section represents approximately two-thirds of potential retail sales depending on the geographic area. This sample of store types is indicative of a diverse set of shopping type that would support a walkable mixed use environment.

### **Commercial Corridor Datasheets**

### **Corridor Length**

Corridor Lengths were determined by plotting the described commercial corridor from the Commercial Corridor Inventory Interviews with local units of government into the Google Earth desktop application, exporting the KML files for import to ArcMAP and projecting them to calculate the linear extent of the defined corridor in feet.

#### Street Classification

National Functional Classification (NFC) is a planning tool which federal, state and local transportation agencies have used since the late 1960's. The Federal Highway Administration (FHWA) developed this system of classifying all streets, roads and highways according to their function. The FHWA publication, **Highway Functional Classification: Concepts, Criteria and Procedures**, provides the basis for much of the following information.

**Principal Arterials** are at the top of the NFC hierarchial system. Principal arterials generally carry long distance, through-travel movements. They also provide access to important traffic generators, such as major airports or regional shopping centers. *Examples:* Interstate and other freeways; other state routes between large cities; important surface streets in large cities.

**Minor Arterials** are similar in function to principal arterials, except they carry trips of shorter distance and to lesser traffic generators. *Examples:* State routes between smaller cities; surface streets of medium importance in large cities; important surface streets in smaller cities.

**Collectors** tend to provide more access to property than do arterials. Collectors also funnel traffic from residential or rural areas to arterials. *Examples:* County, farm-to-market roads; various connecting streets in large and small cities.

Local roads primarily provide access to property. Examples: Residential streets; lightly-traveled county roads.

The following MDOT classifications for this study's Commercial Corridor Inventory are source rom the MDOT's National Functional Classification Maps. The classifications are as follows:

Principal Arterial - Other Minor Arterial Major Collector Minor Collector Local

If a Corridor has multiple classifications along one of its segments, then the highest classification is used. Corridors with multiple segments may contain multiple classifications.

### 2013 Traffic Volume (AADT)

Traffic count data was sourced from the Michigan Department of Transportation's (MDOT) Traffic Monitoring Information System (TMIS) for state trunklines or from local municipalities if available. All counts utilize the Annual Average Daily Traffic (AADT) counts, which in most cases are an annual average estimate of daily traffic based on an adjustment of a sample conducted for a short period of time (short count). For short-count sites, counts are estimated by factoring a short count using seasonal and day-of-week adjustment factors. For continuous sites, counts are calculated by summing the Annual Average Days of the Week and dividing by seven.

For the purpose of this report, if the identified commercial corridor has more than one AADT count, the largest count was utilized.

#### **Number of Traffic Lanes**

Traffic Lane counts were sourced from Google Earth aerial imagery. On corridors with sections of varying amounts of traffic lanes, the count from the section with highest number of lanes was utilized.

### **Parking**

The presence of Parallel, Diagonal, or Parking Structures in commercial corridors was sourced from Google Earth aerial imagery.

#### **Transit Service**

Transit Service was determined from data contained on the respective Transit Agency websites.

#### Bike Lane

The presence of *Bike Lakes* available in commercial corridors was sourced from Google Earth aerial and street view imagery. Accuracy may vary based on the level of quality of the imagery.

#### **Entertainment Venues**

The *Theaters & Entertainment Venues* data was sourced by a search of business listings from several sources including Google, Yellow Pages, and Fandango.com.

#### Pedestrian Amenities

Pedestrian Amenities consist of Sidewalks, Crosswalks, and Mid-Block Crosswalks. The presence of these Pedestrian Amenities in commercial corridors was sourced from Google Earth aerial imagery.

## Walk Score

Walk Score<sup>®</sup> measures the walkability of any address using a patented methodology that analyzes walking routes to nearby amenities and awards points based on the distance to amenities in each category with end results ranging between 0-100, 100 being a "Walker's Paradise". (Walk Score 2014)

## **Corridor Overview**

The Corridor Overview was source from Master Plans, Zoning Ordinances, Regional Transportation Plans, and other public source documents. Content has been edited.

## Corridor Segment and Surrounding 1/4 Mile Study Area Map

The map of commercial corridors were defined by entering public road center points (latitude and longitude coordinates) along the extent provided by the Commercial Corridor Inventory Interviews into Google Earth with the Add Path tool. A sufficient number of points were used to maintain road radius conformity. The full 10 county commercial corridors studies contained 1,722 individual latitude and longitude coordinates. The Google Earth paths were then exported into a KML file for import into ArcMap. The corridors where combined with data from the 2010 TIGER/Line® Shapefiles of Census Places and Counties and road geographic features data from the Michigan Department of Technology, Management, & Budget's Geographic Data Library Catalog. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to query data from various databases used in this study.

Additionally 317 Points of Interest in the 10 county Northwest Michigan region consisting of public use airports, colleges, cultural sites, grocery stores, hospitals, libraries, schools, and theaters & entertainment venues were located for inclusion into the corridor maps.

### **Economic Development**

All corridor specific *Economic Development* policy data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

Additional information on specific community policies can be found in the Michigan Economic Development Corporations Redevelopment Ready Communities' Best Practices guide.

http://www.michiganbusiness.org/cm/Files/Redevelopment\_Ready\_Communities/RRC-Best-Practices.pdf

## Study Area Summary for 1/4 Mile Area Surrounding the Corridor

### Population & Housing Data

To calculate Population and Housing density, the TIGER/Line® with Selected Demographic and Economic Data Shapefiles for the 2010 Census were used for Census Block level data. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull population and housing data for any Census Block either fully or partially contained within the buffer for determining data for the Corridor Segment geography. To determine calculations for the G&I Core Places and G&I Areas, the 2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions, Census Places, and Census Blocks was imputed into to ArcMap software and used to create a database of Census Blocks contained in the respective geographic extents. The Census Block database was then queried for the applicable population and housing data.

### Study Area Size Data

A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation in ArcMap then used to calculate the land area contained within. To determine calculations for the G&I Core Places and G&I Areas, the 2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions, Census Places used to query the land area information.

### Worker & Job Data

To calculate *Workers Living within Study Area* and *Jobs Located within Study Area*, data from the US Census Bureau's LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) was utilized. The 2011 (latest year available) Workplace Area Characteristics (WAC) and Residence Area Characteristics (RAC) data files were used at the Census Block level. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull job data for any Census Block either fully or partially contained within the buffer for determining data for the Corridor Segment geography. To determine calculations for the *G&I Core Places* and *G&I Areas*, the 2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions, Census Places, and Census Blocks

was imputed into to ArcMap software and used to create a database of Census Blocks contained in the respective geographic extents. The Census Block database was then queried for the applicable Worker and Job data.

## **Zoning**

Zoning data was sourced from the respective municipality's Zoning Ordinances and Maps. Commercial Corridor extents were used to pull which Districts were bisected or bordered by the corridor. The respective District standards were then used to determine maximum dwelling densities, permitted uses and review criteria, and district standards for heights, parking requirements, maximum lot coverages, and setbacks. In cases where explicit dwelling densities were not contained in the zoning ordinance, a theoretical maximum was calculated taking into account lot coverages, parking requirements, minimum unit counts and standard assumptions for building envelope ratios (specific formulas for each included district are available upon request). These maximums are theoretical and are not based on specific site constraints. As such they should not be relied upon for site planning or determinations of value. Contact the applicable Zoning Administrator for inquiries about any specific determinations. For a list of contacts please see the municipality's website or the Networks Northwest County Guides to Permitting and Zoning.

(http://www.networksnorthwest.org/planning/planning-policy/land-use/growth-and-investment.html)

### Infrastructure

#### **Public Utilities**

All Municipal Water and Sewer Service data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

### **Energy**

All Energy Infrastructure data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

#### **Broadband**

All data on Broadband available was sourced from both the Commercial Corridor Inventory Interviews with representatives of local units of government and Connect Michigan's technology service maps. Connect Michigan is a subsidiary of Connected Nation and operates as a non-profit in the state of Michigan. Connect Michigan partnered with the Michigan Public Service Commission to engage in a comprehensive broadband planning and technology initiative as part of National effort to map and expand broadband. The program began by gathering provider data to form a statewide broadband map and performing statewide business and residential technology assessments, but has since progressed to working with communities on community plans. (Connect Michigan 2014)

## **Policy**

All corridor specific policy data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

#### **Traffic Counts**

Traffic count data was sourced from the Michigan Department of Transportation's (MDOT) Traffic Monitoring Information System (TMIS) for state trunklines or from local municipalities if available. All counts utilize the Annual Average Daily Traffic (AADT) counts, which in most cases are an annual average estimate of daily traffic based on an adjustment of a sample conducted for a short period of time (short count). For short-count sites, counts are estimated by factoring a short count using seasonal and day-of-week adjustment factors. For continuous sites, counts are calculated by summing the Annual Average Days of the Week and dividing by seven.

The Traffic Count Chart contains AADT counts for the described corridor segment. For the purpose of this chart, if the identified commercial corridor segment has more than one AADT count, the largest count was utilized.

# **Placemaking Elements**

All data for the *Placemaking Elements* was sourced from information provided during the Commercial Corridor Inventory Interviews with representatives of local units of government. The *Theaters & Entertainment Venues*, *Grocery Store*, *and Restaurant* data was sourced by a search of business listings from several sources including Google, Yellow Pages, and Fandango.com.

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## **Release Notes**

1. If any information is in error or incomplete or if a community not currently participating would like to request a commercial corridor interview, please contact Scott Gest, Regional Planner at Networks Northwest.

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