	Bay Township	Boyne Valley Township	Chandler Township	Charlevoix Township	-		City of East Jordan	Evangeline Township	Eveline Township	Hayes Township	Hudson Township	Marion Township	Melrose Township	Norwood Township	Peaine Township	St. James Township	South Arm Township	Wilson Township	Village of Boyne Falls
Population (2020	1,142	1,425	284	1,763	3,816	2,348	2,239	767	1,515	2,000	671	1,657	1,405	700	266	259	1,939	1,858	358
Decennial Census) Severe Winter Wea	ther and E	xtreme Ter	nperature	Vulnerabi	lities														
Blowing/Drifting Snow Concerns													M-75 at foot of Walloon Lake		Kings Hwy. and Fox Lake Rd. areas				
Est. number of residents > age 65	212	268	50	615	885	506	410	233	459	505	166	429	211	246	154	121	473	385	74
Estimated number of residents with a disability	92	243	35	434	490	240	353	98	237	268	218	295	214	111	41	67	262	268	73
Est. # of jurisdiction residents that are of a minority race	69	91	14	167	316	161	215	68	119	185	45	112	92	40	15	21	142	130	28
Est. # of residents that are of Hispanic or Latino origin	9	24	5	48	68	26	49	14	31	18	7	35	15	5	5	2	36	28	11
Est. # of residents that are in poverty	63	101	32	107	201	607	445	55	122	88	112	158	115	11	29	13	202	32	55
Est. % of households that are ALICE	24%	39%	No Data Available	30%	39%	59%	48%	32%	27%	31%	40%	34%	32%	27%	40%	27%	27%	27%	No Data Available
Recreation Land Acreage	1,189	4,947	16,810	660	649	123	110	1,018	401	907	3,441	424	8,678	2,282	12,791	93	833	1,304	(acreage included in Boyne Valley Township)
Thunderstorm, High	Winds H	all. Tannad		ilition															
	, W inds, II	-	o vuinerat	mues										1					
Previous Tornadoes Mobile Homes (Census	17	2 72	10	207	222	34	76	35	17	175	83	38	58	14	22	3	59	2 105	21
		2			222	34	76	35	17	175	83	38	58	14	22	3	59		21
Mobile Homes (Census Estimates)		2 72	10	207	222 649	34				175 907	83		58 8,678						21 (acreage included in Boyne Valley Township)
Mobile Homes (Census Estimates) Campgrounds Recreation Land	17	2 72 2	10	207			1	1	1			1		1	3	2	2	105	(acreage included in Boyne Valley
Mobile Homes (Census Estimates) Campgrounds Recreation Land Acreage Communications Critical Infrastructure (CI):	17	2 72 2 4,947	10 1 16,810	207 1 660	649	123	1	1 1,018	1 401		3,441	1 424	8,678	1	3	2 93	2 833	105	(acreage included in Boyne Valley
Mobile Homes (Census Estimates) Campgrounds Recreation Land Acreage Communications Critical Infrastructure (CI): Towers/Structures Energy CI: Elect/Natl	17	2 72 2 4,947 1	10 1 16,810 1	207 1 660 4	649	123	1 110 2	1 1,018 1	1 401 1	907	3,441	1 424	8,678	1	3 12,791 2	2 93	2 833 1	105 1,304 1	(acreage included in Boyne Valley
Mobile Homes (Census Estimates) Campgrounds Recreation Land Acreage Communications Critical Infrastructure (CI): Towers/Structures Energy CI: Elect/Natl Gas) Est. number of	17	2 72 2 4,947 1 3	10 1 16,810 1 1	207 1 660 4 2	649 2 2	123 3 1	1 110 2 1	1 1,018 1 1	1 401 1 2	907	3,441	1 424 1 1	8,678	1 2,282	3 12,791 2 2	2 93 1	2 833 1 3	105 1,304 1 7	(acreage included in Boyne Valley Township)
Mobile Homes (Census Estimates) Campgrounds Recreation Land Acreage Communications Critical Infrastructure (CI): Towers/Structures Energy CI: Elect/Natl Gas) Est. number of residents > age 65 Estimated number of residents with a	17 1,189 212	2 72 2 4,947 1 3 268	10 1 16,810 1 1 50	207 1 660 4 2 615	649 2 2 885	123 3 1 506	1 110 2 1 410	1 1,018 1 1 233	1 401 1 2 459	907 4 505	3,441 1 1 166	1 424 1 1 429	8,678 1 2 211	1 2,282 246	3 12,791 2 2 154	2 93 1 121	2 833 1 3 473	105 1,304 1 7 385	(acreage included in Boyne Valley Township) 74
Mobile Homes (Census Estimates) Campgrounds Recreation Land Acreage Communications Critical Infrastructure (CI): Towers/Structures Energy CI: Elect/Natl Gas) Est. number of residents > age 65 Estimated number of residents with a disability Est. # of jurisdiction residents that are of a	17 1,189 212 92 69	2 72 2 4,947 1 3 268 243	10 1 16,810 1 1 50 35	207 1 660 4 2 615 434	649 2 2 885 490	123 3 1 506 240	1 110 2 1 410 353	1 1,018 1 1 233 98	1 401 1 2 459 237	907 4 505 268	3,441 1 1 166 218	1 424 1 1 429 295	8,678 1 2 211 214	1 2,282 246 111	3 12,791 2 2 154 41	2 93 1 121 67	2 833 1 3 473 262	105 1,304 1 7 385 268	(acreage included in Boyne Valley Township) 74 73
Mobile Homes (Census Estimates) Campgrounds Recreation Land Acreage Communications Critical Infrastructure (CI): Towers/Structures Energy CI: Elect/Natl Gas) Est. number of residents > age 65 Estimated number of residents with a disability Est. # of jurisdiction residents that are of a minority race Est. # of residents that are of Hispanic or	17 1,189 212 92 69	2 72 2 4,947 1 3 268 243 91	10 1 16,810 1 1 50 35 14	207 1 660 4 2 615 434 167	649 2 2 885 490 316	123 3 1 506 240 161	1 110 2 1 410 353 215	1 1,018 1 1 233 98 68	1 401 1 2 459 237 119	907 4 505 268 185	3,441 1 1 166 218 45	1 424 1 1 429 295 112	8,678 1 2 211 214 92	1 2,282 246 111 40	3 12,791 2 2 154 41 15	2 93 1 121 67 21	2 833 1 3 473 262 142	105 1,304 1 7 385 268 130	(acreage included in Boyne Valley Township) 74 73 28

							Charle	evoix Coun	ty Commu	nity Vulne	rabilities								
	Bay Township	Boyne Valley Township	Chandler Township	Charlevoix Township	City of Boyne City		City of East Jordan	Evangeline Township	Eveline Township	Hayes Township	Hudson Township	Marion Township	Melrose Township	Norwood Township	Peaine Township	St. James Township	South Arm Township	Wilson Township	Village of Boyne Falls
Population (2020 Decennial Census)	1,142	1,425	284	1,763	3,816	2,348	2,239	767	1,515	2,000	671	1,657	1,405	700	266	259	1,939	1,858	358
Lightning and Space	Weather	Vulnerabili	ties																
Campgrounds		2	1	1			1	1	1			1		1	3	2	2		
Communications Critical Infrastructure (CI): Towers/Structures		1	1	4	2	3	2	1	1		1	1	1		2	1	1	1	
Energy CI: Elect/Natl Gas)		3	1	2	2	1	1	1	2	4	1	1	2		2		3	7	
Site of Former Big Rock Nuclear Power Plant										х									
Airports (CI)		1		1	1	1	1								2		1		
Municipal Water and Wastewater Infr. Sites				8	6	11	15					1	3				1		
Recreation Land Acreage	1,189	4,947	16,810	660	649	123	110	1,018	401	907	3,441	424	8,678	2,282	12,791	93	833	1,304	(acreage included in Boyne Valley Township)
Lake Shoreline Haza	ards																		
Shoreline Flooding Issues	х			х	х	х	х	х	х	х	х			х	х	х	х		
Shoreline Erosion Issues				х	х	х			х	х				х	х	х			
Critical Dunes				х		Х								х	х	х			
High Risk Erosion Areas																			
Lake MI Public Beach Access				х		х				х				х	х	х			
Marinas connected to Lake MI					2	3	1		3							1	1		
FEMA FIRMS issued - adjoining Lake MI				х		х				х				х	х	х			
FEMA FIRMS issued - Lake Charlevoix connection to Lake MI	х			x	x	Х	Х	Х	Х	x		x					х		

							Charle	voix Coun	ty Commu	nity Vulne	erabilities								
	Bay Township	Boyne Valley Township	Chandler Township	Charlevoix Township	City of Boyne City	City of Charlevoix	City of East Jordan	Evangeline Township	Eveline Township	Hayes Township	Hudson Township	Marion Township	Melrose Township	Norwood Township	Peaine Township	St. James Township	South Arm Township	Wilson Township	Village of Boyne Falls
Population (2020 Decennial Census)	1,142	1,425	284	1,763	3,816	2,348	2,239	767	1,515	2,000	671	1,657	1,405	700	266	259	1,939	1,858	358
Inland Flooding Vul	nerabilitie	s																	
FEMA FIRM issued, NFIP participant	х		NSFHA	х	х	х	х	х	х	х	NSFHA		х	х	х	х	х		Flood Hazard in 2019 Flood
FEMA FIRM issued, not in NFIP		х										х							
Increased land development in flood hazard areas since 2016 HMP																			
Dams (including available hazard potential rating)	Horton Creek Dam (Low)	Boyne Falls Dam (Significant), Boyne River Dam (Low), Massey Dam (Low)		Stover Creek Dam (Low); Charlevoix Kmart Retention Basin Dam (Low)					Lawton Valley Pond Dam (Low)			Belvedere Golf Club (Low); Marion Hills Dam (Low)	Walloon Lake CC Dams #3 (Low) and #14 (Significant) ; Walloon Lake Weir at Bear River (Low)				East Jordan Dam (Significant)	Deer Lake Level Control Structure (Low)	
Prior Inland Flood Incidents		х			х	х		х											х
Road/Stream Flooding Problems			х					х			х		х		х	х	х	х	
# of Road/Stream Crossings with a Moderate to Severe Rating	1	31	18	1	1		6	3		1	6	1	22				27	24	1
# of Bridges with Poor, Serious, Critical or Closed Ratings						US-31 Bridge (Poor)					Iron Bridge Road Bridge (Closed)		Eastwood Road Bridge (Poor)						
Est. number of residents > age 65	212	268	50	615	885	506	410	233	459	505	166	429	211	246	154	121	473	385	74
Estimated number of residents with a disability	92	243	35	434	490	240	353	98	237	268	218	295	214	111	41	67	262	268	73
Est. # of jurisdiction residents that are of a minority race	69	91	14	167	316	161	215	68	119	185	45	112	92	40	15	21	142	130	28
Est. # of residents that are of Hispanic or Latino origin	9	24	5	48	68	26	49	14	31	18	7	35	15	5	5	2	36	28	11
Est. # of residents that are in poverty	63	101	32	107	201	607	445	55	122	88	112	158	115	11	29	13	202	32	55
Est. % of households that are ALICE	24%	39%	No Data Available	30%	39%	59%	48%	32%	27%	31%	40%	34%	32%	27%	40%	27%	27%	27%	No Data Available

							Charle	voix Coun	ty Commu	nity Vulne	erabilities								
	Bay Township	Boyne Valley Township	Chandler Township	Charlevoix Township	City of Boyne City	•	City of East Jordan	Evangeline Township	Eveline Township	Hayes Township	Hudson Township	Marion Township	Melrose Township	Norwood Township	Peaine Township	St. James Township	South Arm Township	Wilson Township	Village of Boyne Falls
Population (2020 Decennial Census)	1,142	1,425	284	1,763	3,816	2,348	2,239	767	1,515	2,000	671	1,657	1,405	700	266	259	1,939	1,858	358
Wildfire Vulnerabili	ties																		
Eastern Pine and Red Pine Forest	х	х	х	х	х		х	х	х	х	х	х	х	х	х	х	х	х	х
Jack Pine Forest	Х			Х				Х	Х	Х		Х	Х	Х					
Campgrounds		2	1	1			1	1	1			1		1	3	2	2		
Fire Hazard Concern Areas	х		х						х			х	х	х	х				
Increased land development near fire hazard areas since 2016 HMP																			
Est. number of residents > age 65	212	268	50	615	885	506	410	233	459	505	166	429	211	246	154	121	473	385	74
Estimated number of residents with a disability	92	243	35	434	490	240	353	98	237	268	218	295	214	111	41	67	262	268	73
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Est. % of households that are ALICE	24%	39%	No Data Available	30%	39%	59%	48%	32%	27%	31%	40%	34%	32%	27%	40%	27%	27%	27%	No Data Available
Drought Vulnerabili	ty			·										·		I			
Recreation Land Acreage	1,189	4,947	16,810	660	649	123	110	1,018	401	907	3,441	424	8,678	2,282	12,791	93	833	1,304	(acreage included in Boyne Valley Township)
Municipal Water Systems					х	х	х						х						х
Agriculture Processing, Packaging & Production Facilities (CI)							1		3			8					2		

							Charle	evoix Coun	ty Commu	nity Vulne	erabilities								
	Bay Township	Boyne Valley Township	Chandler Township	Charlevoix Township	City of Boyne City		City of East Jordan	Evangeline Township	Eveline Township	Hayes Township	Hudson Township	Marion Township	Melrose Township	Norwood Township	Peaine Township	St. James Township		Wilson Township	Village of Boyne Falls
Population (2020 Decennial Census)	1,142	1,425	284	1,763	3,816	2,348	2,239	767	1,515	2,000	671	1,657	1,405	700	266	259	1,939	1,858	358
Invasive Species Concerns																			
Areas mapped as a locations of particular concern		Boyne River			Boyne River			Boyne River	Porter and Dyer Creeks		Thumb Lake (EWM)		Boyne River; tributaries to Walloon Lake ; Bear River; Shoreline along foot of the lake	Lakeshore Drive along Lake MI (phragmite s)	Phragmites	Phragmites	6 Mile Lake (EWM); Jordan River		
Public Health Emergency Vulnerabilities																			
Assisted Living or Adult Foster Care Facility (CI)	1				4	2	1				2		1	1			1		
Est. number of residents > age 65	212	268	50	615	885	506	410	233	459	505	166	429	211	246	154	121	473	385	74
Estimated number of residents with a disability	92	243	35	434	490	240	353	98	237	268	218	295	214	111	41	67	262	268	73
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