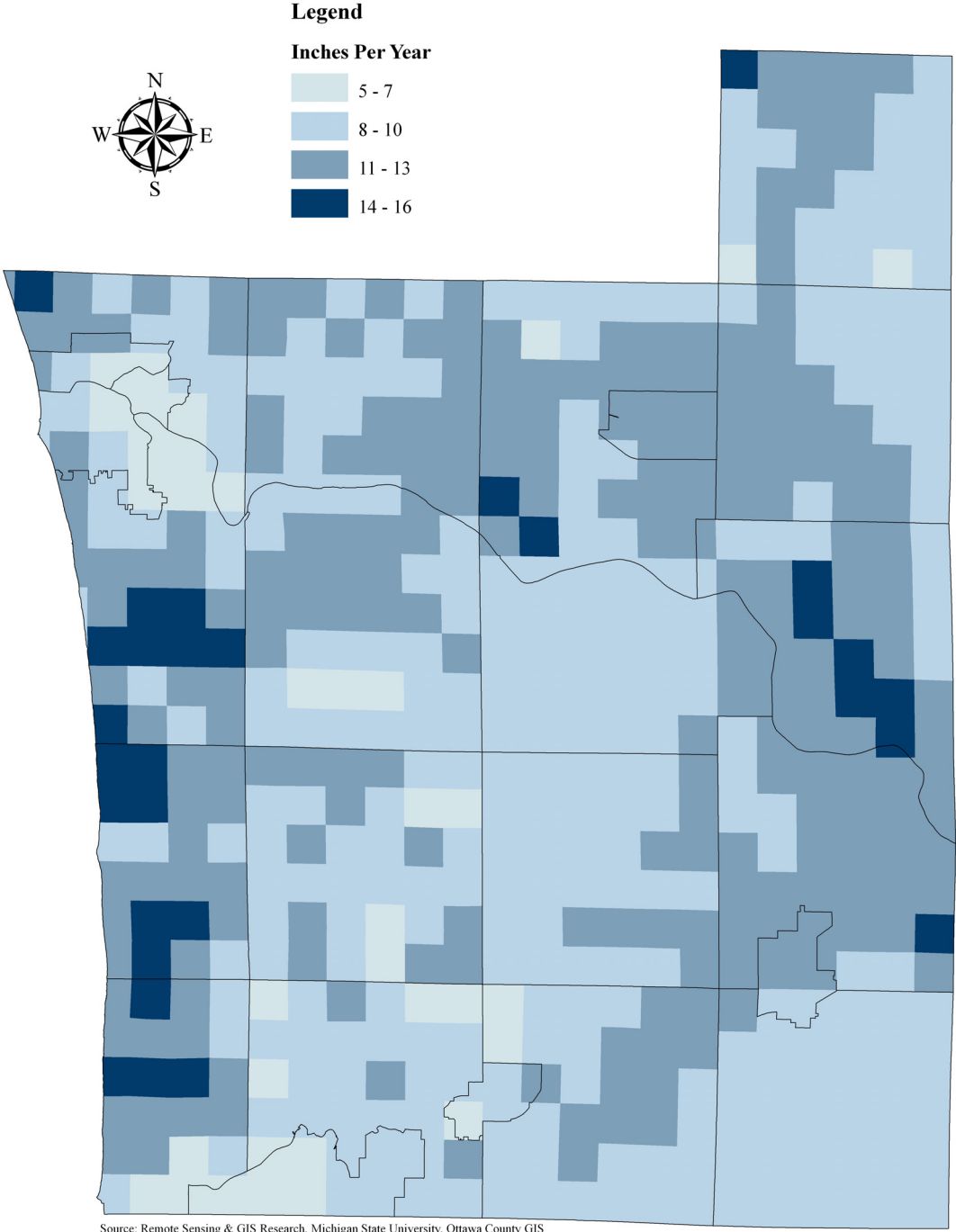


Groundwater Recharge* (Ottawa County)



* Groundwater recharge is a hydrologic process that moves water from rain, melted snow, and surface water (from rivers and lakes) downward to the water table

Groundwater Recharge* (Ottawa County, Municipality)

Annual Groundwater Recharge (Inches)									
Unit of Government	5 to 7		8 to 10		11 to 13		14 to 16		Total Acreage**
	Acreage	%	Acreage	%	Acreage	%	Acreage	%	
<i>City/Village</i>									
Coopersville	0.0	0.0%	144.5	4.7%	2,903.6	95.3%	0.0	0.0%	3,048.1
Ferrysburg	770.7	33.7%	745.6	32.6%	769.6	33.7%	0.0	0.0%	2,285.9
Grand Haven	1,559.1	38.5%	1,818.0	45.0%	666.6	16.5%	0.0	0.0%	4,043.7
Holland***	3,018.4	51.9%	2,793.7	48.1%	0.0	0.0%	0.0	0.0%	5,812.1
Hudsonville	0.0	0.0%	815.4	30.7%	1,841.4	69.3%	0.0	0.0%	2,656.8
Spring Lake	989.5	89.0%	121.8	11.0%	0.0	0.0%	0.0	0.0%	1,111.3
Zeeland	504.6	26.3%	1,116.2	58.1%	299.3	15.6%	0.0	0.0%	1,920.1
<i>Township</i>									
Allendale	0.0	0.0%	17,255.2	84.0%	3,277.4	16.0%	0.0	0.0%	20,532.6
Blendon	0.8	0.1%	17,483.0	75.1%	5,787.5	24.8%	0.0	0.0%	23,271.3
Chester	1,268.9	5.5%	12,695.8	55.4%	8,365.2	36.5%	594.5	2.6%	22,924.4
Crockery	1.1	0.1%	8,697.5	40.6%	12,665.5	59.2%	0.5	0.1%	21,364.6
Georgetown	0.0	0.0%	4,496.4	20.6%	16,538.0	75.8%	778.3	3.6%	21,812.7
Grand Haven	2,028.9	10.7%	4,443.8	23.5%	8,010.5	42.3%	4,446.2	23.5%	18,929.4
Holland	3,108.7	17.7%	12,542.3	71.3%	1,945.7	11.0%	0.0	0.0%	17,596.7
Jamestown	0.0	0.0%	21,970.8	96.9%	702.8	3.1%	0.0	0.0%	22,673.6
Olive	2,575.7	11.1%	12,894.9	55.7%	7,692.0	33.2%	0.0	0.0%	23,162.6
Park	1,798.7	13.2%	2,436.4	17.9%	6,947.1	51.1%	2,427.1	17.8%	13,609.3
Polkton	647.1	2.6%	9,723.1	38.2%	13,735.7	54.0%	1,326.4	5.2%	25,432.3
Port Sheldon	0.0	0.0%	2,442.8	16.9%	7,777.3	53.8%	4,249.2	29.3%	14,469.3
Robinson	1,960.9	7.7%	13,339.7	52.7%	9,989.8	39.5%	3.7	0.1%	25,294.1
Spring Lake	1,139.1	10.6%	4,894.7	45.8%	4,003.1	37.4%	658.4	6.2%	10,695.3
Tallmadge	0.1	0.1%	4,807.9	22.7%	12,519.8	59.3%	3,791.1	17.9%	21,118.9
Wright	1.7	0.1%	10,969.6	47.2%	12,231.3	52.7%	0.0	0.0%	23,202.6
Zeeland	1,336.2	6.1%	13,177.9	59.8%	7,524.5	34.1%	0.0	0.0%	22,038.6
Ottawa County	22,710.2	6.2%	181,827.0	49.3%	146,193.7	39.6%	18,275.4	4.9%	369,006.3

Source: Remote Sensing & GIS Research, Michigan State University, Ottawa County GIS, 2005

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** The acreage will vary slightly depending on the source

***This represents the portion of Holland City located within Ottawa County