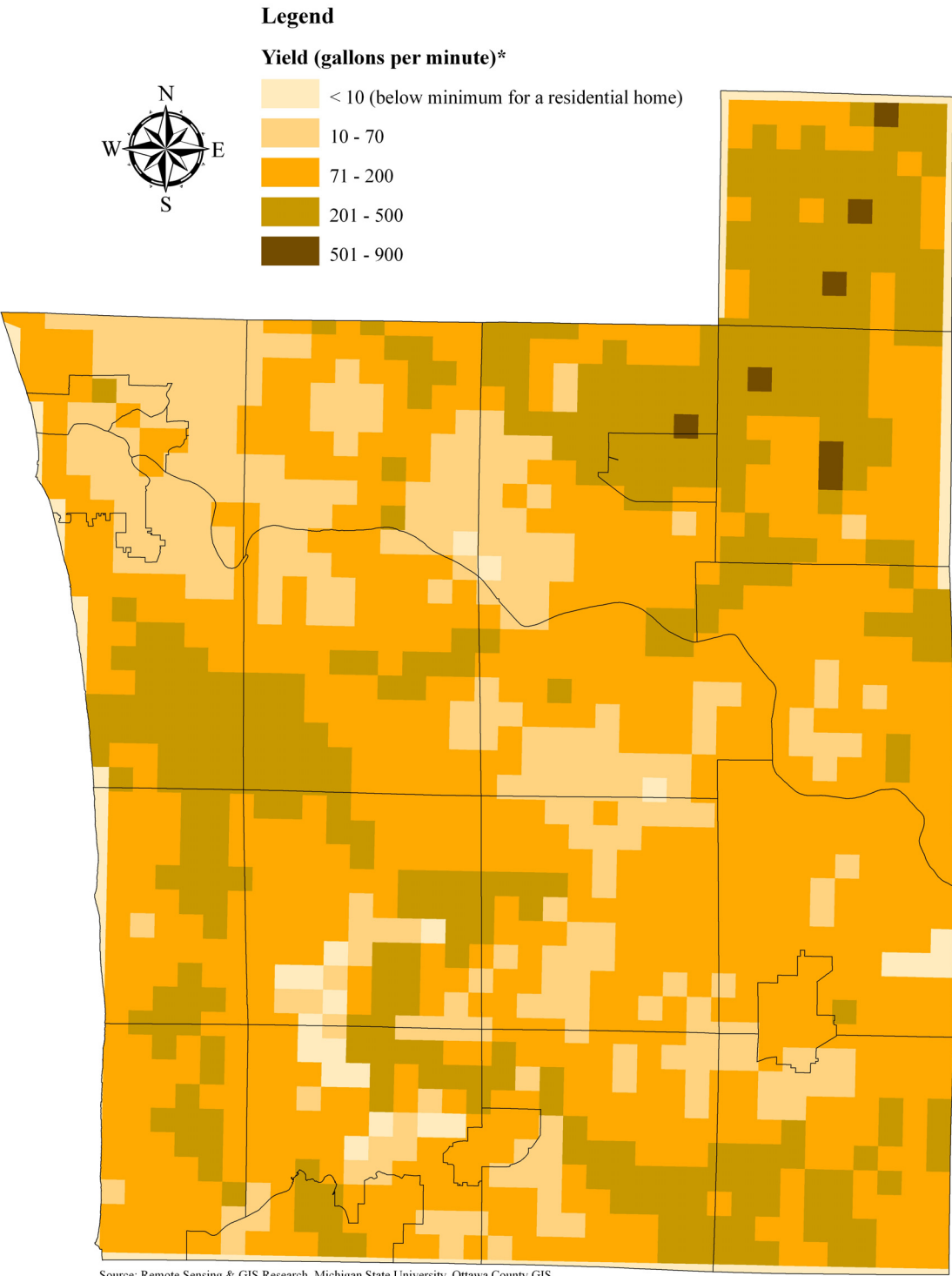


Groundwater Yield (Ottawa County)



* Groundwater yield is the pumping rate necessary to produce an estimated 50% decrease in water level at a well

Groundwater Yield (Ottawa County, Municipality)

Groundwater Yield* (Gallons Per Minute)

| Unit of Government | < 10 | | 10 to 70 | | 71 to 200 | | 201 to 500 | | 501 to 900 | | Total Acreage** |
|----------------------|-----------------|-------------|-----------------|--------------|------------------|--------------|-----------------|--------------|----------------|-------------|------------------|
| | Acreage | % | Acreage | % | Acreage | % | Acreage | % | Acreage | % | |
| <i>City/Village</i> | | | | | | | | | | | |
| Coopersville | 0.0 | 0.0% | 0.0 | 0.0% | 301.4 | 9.9% | 2,699.2 | 88.6% | 47.5 | 1.5% | 3,048.1 |
| Ferrysburg | 126.3 | 5.5% | 1,078.9 | 47.2% | 833.6 | 36.5% | 247.2 | 10.8% | 0.0 | 0.0% | 2,286.0 |
| Grand Haven | 204.3 | 5.1% | 2,593.3 | 64.1% | 1,246.2 | 30.8% | 0.0 | 0.0% | 0.0 | 0.0% | 4,043.8 |
| Holland*** | 467.1 | 8.0% | 701.4 | 12.1% | 3,170.5 | 54.6% | 1,473.1 | 25.3% | 0.0 | 0.0% | 5,812.1 |
| Hudsonville | 0.0 | 0.0% | 308.6 | 11.6% | 2,340.0 | 88.1% | 8.1 | 0.3% | 0.0 | 0.0% | 2,656.7 |
| Spring Lake | 0.0 | 0.0% | 464.3 | 41.8% | 647.0 | 58.2% | 0.0 | 0.0% | 0.0 | 0.0% | 1,111.3 |
| Zeeland | 0.0 | 0.0% | 197.1 | 10.3% | 1,696.1 | 88.3% | 26.8 | 1.4% | 0.0 | 0.0% | 1,920.0 |
| <i>Township</i> | | | | | | | | | | | |
| Allendale | 204.6 | 1.0% | 6,555.4 | 31.9% | 12,770.1 | 62.2% | 1,002.5 | 4.9% | 0.0 | 0.0% | 20,532.6 |
| Blendon | 46.1 | 0.2% | 7,219.9 | 31.0% | 14,615.2 | 62.8% | 1,390.0 | 6.0% | 0.0 | 0.0% | 23,271.2 |
| Chester | 2,130.6 | 9.3% | 0.0 | 0.0% | 4,785.7 | 20.9% | 15,266.4 | 66.6% | 741.7 | 3.2% | 22,924.4 |
| Crockery | 256.5 | 1.2% | 8,548.3 | 40.0% | 10,541.8 | 49.3% | 2,018.0 | 9.5% | 0.0 | 0.0% | 21,364.6 |
| Georgetown | 1,014.8 | 4.7% | 1,102.9 | 5.1% | 19,455.9 | 89.2% | 239.1 | 1.0% | 0.0 | 0.0% | 21,812.7 |
| Grand Haven | 582.0 | 3.1% | 3,468.7 | 18.3% | 6,882.0 | 36.4% | 7,996.7 | 42.2% | 0.0 | 0.0% | 18,929.4 |
| Holland | 2,267.1 | 12.9% | 3,342.3 | 19.0% | 9,182.7 | 52.2% | 2,804.5 | 15.9% | 0.0 | 0.0% | 17,596.6 |
| Jamestown | 722.2 | 3.2% | 2,540.5 | 11.2% | 12,088.2 | 53.3% | 7,322.8 | 32.3% | 0.0 | 0.0% | 22,673.7 |
| Olive | 1,355.9 | 5.9% | 2,914.5 | 12.6% | 13,115.3 | 56.6% | 5,776.9 | 24.9% | 0.0 | 0.0% | 23,162.6 |
| Park | 296.9 | 2.2% | 407.9 | 3.0% | 9,845.7 | 72.3% | 3,058.8 | 22.5% | 0.0 | 0.0% | 13,609.3 |
| Polkton | 231.5 | 0.9% | 5,784.9 | 22.8% | 10,610.1 | 41.7% | 8,606.1 | 33.8% | 199.7 | 0.8% | 25,432.3 |
| Port Sheldon | 739.3 | 5.1% | 247.2 | 1.7% | 8,774.0 | 60.6% | 4,708.8 | 32.6% | 0.0 | 0.0% | 14,469.3 |
| Robinson | 2.8 | 0.1% | 4,221.0 | 16.7% | 14,905.9 | 58.9% | 6,164.3 | 24.3% | 0.0 | 0.0% | 25,294.0 |
| Spring Lake | 154.9 | 1.4% | 7,846.4 | 73.4% | 2,693.9 | 25.2% | 0.0 | 0.0% | 0.0 | 0.0% | 10,695.2 |
| Tallmadge | 115.7 | 0.5% | 1,977.7 | 9.4% | 15,226.4 | 72.1% | 3,799.1 | 18.0% | 0.0 | 0.0% | 21,118.9 |
| Wright | 1,056.3 | 4.5% | 247.2 | 1.1% | 10,511.5 | 45.3% | 10,645.9 | 45.9% | 741.6 | 3.2% | 23,202.5 |
| Zeeland | 509.0 | 2.3% | 4,523.0 | 20.5% | 11,327.9 | 51.4% | 5,678.7 | 25.8% | 0.0 | 0.0% | 22,038.6 |
| Ottawa County | 12,483.9 | 3.4% | 66,291.4 | 18.0% | 197,567.1 | 53.5% | 90,933.0 | 24.6% | 1,730.5 | 0.5% | 369,005.9 |

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

* Groundwater yield is the pumping rate necessary to produce an estimated 50% decrease in water level at a well

** The acreage will vary slightly depending on the source

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