



# Ground Water's Role in Michigan's Economic Vitality

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## People of Michigan Served by Ground Water

- 46.1% of Michigan's population depends upon ground water for its drinking water supply
- 1,121,075 Michigan households served by privately owned individual wells
- 2,982,060 Michigan residents served by privately owned individual wells
- 12,188 public supply wells serving Michigan
- 1,304,574 Michigan residents served by ground water influenced public water systems

## Ground Water Use for Michigan Residents

### Public Supply:

|   |       |
|---|-------|
| Ground water (Mgal/d <sup>1</sup> ) ..... | 348   |
| Percentage of total ground water .....    | 40.6% |
| Percentage of total public supply .....   | 26.8% |

### Individual Household:

|   |       |
|---|-------|
| Ground water (Mgal/d).....                            | 194   |
| Percentage of total ground water .....                | 22.6% |
| Percentage of total individual household supply ..... | 100%  |

### Commercial, Self-supplied:

|  |      |
|--|------|
| Ground water (Mgal/d).....             | 16   |
| Percentage of total ground water ..... | 1.9% |
| Percentage of total commercial .....   | 39%  |

### Irrigation:

|  |       |
|--|-------|
| Ground water (Mgal/d).....             | 101   |
| Percentage of total ground water ..... | 11.8% |
| Percentage of total irrigation .....   | 44.5% |

### Livestock:

|  |       |
|--|-------|
| Ground water (Mgal/d).....             | 13    |
| Percentage of total ground water ..... | 1.5%  |
| Percentage of total livestock.....     | 92.9% |

### Industrial, Self-supplied:

|  |       |
|--|-------|
| Ground water (Mgal/d).....             | 177   |
| Percentage of total ground water ..... | 20.6% |
| Percentage of total industrial.....    | 9.6%  |

### Mining:

|                                       |       |
|---------------------------------------|-------|
| Ground water (Mgal/d).....            | 7.1   |
| Percentage of total groundwater ..... | 0.8%  |
| Percentage of total mining.....       | 12.2% |

### Thermoelectric:

|  |      |
|--|------|
| Ground water (Mgal/d).....               | 3    |
| Percentage of total ground water .....   | 0.3% |
| Percentage of total thermoelectric ..... | 0%   |

<sup>1</sup> Mgal/day = millions of gallons per day

## Ground Water Industry Employment for Michigan Residents

Men and women working to provide and protect Michigan's ground water resources for the benefit of people, business, and our environment.



### ***Contracting Firms***

Drill and service wells, install and service pumps, install and service point of use water treatment devices. This portion of the industry is characterized by small firms (nationally, 65 percent of these firms employ between 1 to 4 persons), many of which are multi-generation family-owned and operated.

*1,086 firms*

*Employ an estimated 5,962 people*

*Annual estimated sales of \$624.9 million*

### ***Scientists & Engineers***

Geologists, hydrogeologists, geochemists, geophysicists, microbiologists, hydrologists, professors, regulators.

- **Hazardous Waste Management Firms**

*75 firms*

*Employ an estimated 2,355 people*

*Annual estimated sales of \$156 million*

- **Remediation & Industrial Service Firms**

*156 firms*

*Employ an estimated 5,543 people*

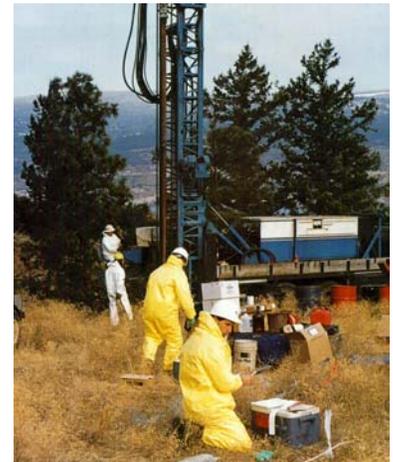
*Annual estimated sales of \$532.1 million*

- **Environmental Consulting & Engineering Firms**

*153 firms*

*Employ an estimated 7,489 people*

*Annual estimated sales of \$673.9 million*



### ***Sampling of Michigan Manufacturers & Wholesalers***

Bertsch Supply Co., Grand Rapids

Big Foot Manufacturing, Cadillac

Herder Sales, Inc., Kalamazoo

Milan Supply Co., Mt. Pleasant

Valley Farms Supply, Inc., Lansing and Lake City

W G Sales Associates, Inc., Howell