

# Garfield 29-0061-00

## Lake Information

**MN Lake ID:** 29-0061-00  
**County:** Hubbard  
**Ecoregion:** NLF  
**Major Drainage Basin:** UM  
**Latitude/Longitude:** 47.22916667 / -94.74194444  
**Years Monitored:** 1999 - 2019  
**Monitored Sites:** 203,204

[View MPCA CLMP Historical Secchi Data](#)  
[MPCA Assessment Report](#)  
[Search County Monthly Precipitation Data](#)

## Physical Characteristics

**Surface area (acres):** 979  
**Littoral area (acres):** 521  
**% Littoral area:**  
**Max depth (ft):** 30  
**Max depth (m):**  
**Mean depth (ft):** N/A  
**Watershed size (acres):** N/A  
**Aquatic Invasive Species:**

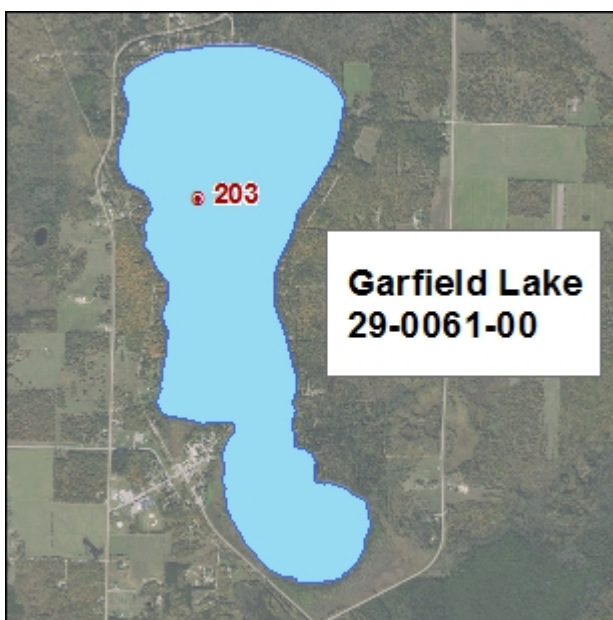
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## Water Quality Characteristics

(data from RMB monitoring database only)

Parameters	Primary Site 204	Site 203
<b>Total Phosphorus Mean:</b>	19.7	17.1
<b>Total Phosphorus Min:</b>	2.5	11
<b>Total Phosphorus Max:</b>	35	31
<b>Number of Observations:</b>	15	15
<b>Chlorophyll-a Mean:</b>	8.1	4.9
<b>Chlorophyll-a Min:</b>	1	-0.4
<b>Chlorophyll-a Max:</b>	23	12.5
<b>Number of Observations:</b>	15	15
<b>Secchi Depth Mean:</b>	12.2	15
<b>Secchi Depth Min:</b>	5	8
<b>Secchi Depth Max:</b>	24	27
<b>Number of Observations:</b>	15	15
<b>Trophic State Index Mean:</b>	45.2	42.1

**Trophic State:** Mesotrophic



## Trends

*(Primary site only. For detecting trends, a minimum of 8-10 years of consecutive data with 4 or more readings per season are recommended)  
 Trend analysis does not take into consideration aquatic invasive species.  
 Species like zebra mussels can alter water chemistry over time.*

**Years Monitored:** 1999 - 2019  
**Total Phosphorus:** Declining with 90% confidence.  
**Chlorophyll-a:** Declining with 95% confidence.  
**Secchi Depth:** Declining with 90% confidence.  
**Trophic State Index:** Declining with 99% confidence.

## Ecoregion Comparisons

*(Primary site only. Comparisons are based on interquartile range, 25th-75th percentile, for ecoregion reference lakes)*

**Ecoregion:** NLF  
**Total phosphorus:** Within Expected Range  
**Chlorophyll-a:** Within Expected Range  
**Secchi depth:** Within Expected Range