The data illustrated in these charts are from the Child and Youth Prevalence of Obesity Survey (CAYPOS) conducted biennially by the University of Southern Mississippi. Study findings from the 2013 CAYPOS have been published in the Journal of the Mississippi State Medical Association: *Prevalence and Trends in Overweight and Obesity among Mississippi Public School Students, 2005-2013*. 

COMBINED PREVALENCE
OF OVERWEIGHT & OBESITY
Overweight & Obesity Combined Rates by Grade Level

<table>
<thead>
<tr>
<th>Grade Level</th>
<th>2005</th>
<th>2007</th>
<th>2009</th>
<th>2011</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary*</td>
<td>43.0%</td>
<td>41.8%</td>
<td>37.3%</td>
<td>38.0%</td>
<td></td>
</tr>
<tr>
<td>Middle School</td>
<td>48.3%</td>
<td>42.0%</td>
<td>43.4%</td>
<td>47.9%</td>
<td>48.9%</td>
</tr>
<tr>
<td>High School</td>
<td>41.6%</td>
<td>39.5%</td>
<td>42.0%</td>
<td>42.8%</td>
<td></td>
</tr>
</tbody>
</table>

*Note: Decline from 2005 - 2013 is statistically significant.
OBESITY RATES
Obesity Rates by Year, 2005 – 2013

- 2005: 25.5%
- 2007: 23.5%
- 2009: 23.9%
- 2011: 23.7%
- 2013: 23.6%

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Obesity Rates by Race

*Note: Statistically significant difference.

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10
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Obesity Rates by Gender

<table>
<thead>
<tr>
<th>Year</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>25.2%</td>
<td>25.9%</td>
</tr>
<tr>
<td>2007</td>
<td>24.2%</td>
<td>22.9%</td>
</tr>
<tr>
<td>2009</td>
<td>24.8%</td>
<td>23.0%</td>
</tr>
<tr>
<td>2011</td>
<td>24.4%</td>
<td>23.0%</td>
</tr>
<tr>
<td>2013</td>
<td>23.1%</td>
<td>24.1%</td>
</tr>
</tbody>
</table>
Obesity Rates by Race & by Gender
Obesity Rates by Race & Gender

![Graph showing obesity rates by race and gender from 2005 to 2013.](image)
Obesity Rates by Grade Level

<table>
<thead>
<tr>
<th>Grade Level</th>
<th>2005</th>
<th>2007</th>
<th>2009</th>
<th>2011</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary*</td>
<td>25.0%</td>
<td>25.3%</td>
<td>24.1%</td>
<td>21.9%</td>
<td>22.0%</td>
</tr>
<tr>
<td>Middle School</td>
<td>28.9%</td>
<td>22.8%</td>
<td>25.4%</td>
<td>28.6%</td>
<td>27.3%</td>
</tr>
<tr>
<td>High School</td>
<td>23.5%</td>
<td>23.5%</td>
<td>23.1%</td>
<td>22.3%</td>
<td>23.5%</td>
</tr>
</tbody>
</table>

*Note: Decline from 2005 - 2013 is statistically significant.
Summary

- **Combined Overweight & Obesity Rates**
  - The prevalence of overweight and obesity for all students has leveled off, but rates remain much higher than national averages. A slight, but not statistically significant (p = 0.0862), decline in rates has occurred since 2005 (41.8% combined rate in 2013 compared to 43.9% in 2005).
  - Declines in the combined prevalence of overweight and obesity among elementary school students and white students remained statistically significant from 2005 to 2013.
  - The combined prevalence of overweight and obesity among middle school students declined from 2005 to 2007, but reversed direction and increased from 2007 to 2013.

- **Obesity Rates**
  - A significant drop in obesity prevalence (p = 0.0163) was documented in elementary students – the first year of the survey that this has occurred.
  - In 2013, the prevalence of obesity was significantly higher among middle school students (p = 0.048).
  - In 2013, the prevalence of obesity was significantly higher (p < 0.001) among black students, when 26.7% of black students were classified as obese, compared to 19.7% of white students. This racial difference was also statistically significant in 2009 and 2011.
  - In 2013, the prevalence of obesity for black females (29.1%) was significantly higher than for white females (18.0%). The difference between these groups was also statistically significant in 2007, 2009, and 2011.
more information available at

www.mshealthpolicy.com/childhood-obesity-trends-in-ms