

**Multi Year Overweight and Obesity Status in Minnesota WIC Children Ages 2 to 5 Years of Age by  
Race/Ethnicity Alone or In Combination with Other Races (AOIC)**  
Minnesota WIC Information System

Year <sup>1</sup>	Amer Indian NH AOIC Total	Amer Indian NH AOIC Percent [95% CI]	Asian NH AOIC Total <sup>2</sup>	Asian NH AOIC Percent [95% CI]	Black/ African - Amer NH AOIC Total <sup>3</sup>	Black / African- Amer NH AOIC Percent [95% CI]	White NH AOIC Total	White NH Percent AOIC [95% CI]	Amer Indian H AOIC Total	Amer Indian H AOIC Percent [95% CI]	White H AOIC Total	White H AOIC Percent [95% CI]	Other H AOIC Total	Other H AOIC Percent [95% CI] <sup>4</sup>
<b>Overweight<sup>5</sup></b>														
2019	2,952	19.8 [18.4, 21.2]	6,222	17.0 [16.1, 17.9]	16,418	14.0 [13.5, 14.5]	22,545	15.6 [15.1, 16.1]	1,156	16.2 [14.1, 18.3]	7,949	17.4 [16.6, 18.2]	877	15.4 [13.0, 17.8]
2018	3,155	20.8 [19.4, 22.2]	6,764	15.9 [15.1, 16.8]	17,499	14.1 [13.6, 14.6]	24,123	15.9 [15.4, 16.3]	1,370	17.6 [15.7, 19.7]	8,632	17.6 [16.8, 18.4]	912	18.5 [16.1, 21.2]
2017	3,284	19.2 [17.9, 20.6]	7,000	15.4 [14.6, 16.3]	17,868	14.2 [13.8, 14.8]	25,788	16.1 [15.7, 16.6]	1,686	15.9 [14.2, 17.7]	9,206	17.3 [16.6, 18.1]	1,006	14.8 [12.8, 17.1]
2016	3,536	20.3 [19.0, 21.6]	7,297	15.6 [14.8, 16.4]	17,927	14.3 [13.8, 14.8]	27,669	16.0 [15.5, 16.4]	2,114	18.6 [17.0, 20.3]	9,530	17.4 [16.7, 18.2]	1,034	18.3 [16.0, 20.8]
2015	3,816	20.9 [19.7, 22.2]	7,277	15.9 [15.0, 16.7]	18,063	14.3 [13.8, 14.8]	29,154	15.4 [15.0, 15.9]	2,520	18.1 [16.7, 19.7]	10,060	17.4 [16.7, 18.2]	1,055	17.8 [15.6, 20.2]
2014	3,717	19.9 [18.6, 21.2]	6,635	13.8 [13.0, 14.6]	16,847	13.2 [12.7, 13.7]	28,914	14.9 [14.5, 15.4]	2,878	16.3 [14.9, 17.6]	9,774	16.8 [16.1, 17.6]	965	15.8 [13.5, 18.0]
2013	3,909	20.7 [19.4, 22.0]	6,855	15.2 [14.4, 16.1]	16,663	14.0 [13.5, 14.6]	31,147	15.8 [15.4, 16.2]	3,461	18.0 [16.7, 19.3]	10,450	17.4 [16.7, 18.1]	1,017	15.9 [13.7, 18.2]
2012	4,053	21.2 [19.9, 22.4]	6,770	16.3 [15.4, 17.2]	16,972	14.7 [14.2, 15.3]	34,270	15.5 [15.2, 15.9]	4,086	17.9 [16.7, 19.1]	11,159	17.6 [16.9, 18.3]	1,045	15.9 [13.7, 18.1]
2011	4,165	20.7 [19.5, 22.0]	6,620	16.9 [16.0, 17.8]	16,543	15.4 [14.8, 15.9]	35,837	15.5 [15.2, 15.9]	4,591	18.5 [17.4, 19.6]	11,612	17.9 [17.2, 18.6]	1,043	17.2 [14.9, 19.5]

**Multi Year Overweight and Obesity Status in Minnesota WIC Children Ages 2 to 5 Years of Age by  
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Year <sup>9</sup>	Amer Indian NH AOIC Total	Amer Indian NH AOIC Percent [95% CI]	Asian NH AOIC Total	Asian NH AOIC Percent [95% CI]	Black/ African - Amer NH AOIC Total	Black / African- Amer NH AOIC Percent [95% CI]	White NH AOIC Total	White NH Percent AOIC [95% CI]	Amer Indian H AOIC Total	Amer Indian H AOIC Percent [95% CI]	White H AOIC Total	White H AOIC Percent [95% CI]	Other H AOIC Total	Other H AOIC Percent [95% CI]
<b>Obese</b>														
2019	2,952	23.5 [22.0, 25.0]	6,222	13.9 [13.0, 14.8]	16,418	11.8 [11.3, 12.3]	22,545	10.9 [10.5, 11.3]	1,156	18.3 [16.1, 20.5]	7,949	17.5 [16.7, 18.3]	877	13.9 [11.6, 16.2]
2018	3,155	23.0 [21.6, 24.5]	6,764	13.6 [12.8, 14.5]	17,499	11.3 [10.9, 11.8]	24,123	10.6 [10.2, 11.0]	1,370	17.7 [15.8, 19.9]	8,632	17.6 [16.8, 18.4]	912	12.8 [10.8, 15.2]
2017	3,284	22.9 [21.5, 24.4]	7,000	14.1 [13.3, 14.9]	17,868	11.3 [10.8, 11.8]	25,788	10.8 [10.5, 11.2]	1,686	19.5 [17.7, 24.5]	9,206	17.0 [16.3, 17.8]	1,006	13.6 [11.6, 15.9]
2016	3,536	23.6 [22.2, 25.0]	7,297	13.4 [12.6, 14.2]	17,927	10.6 [10.2, 11.1]	27,669	10.7 [10.3, 11.0]	2,114	18.8 [17.2, 20.5]	9,530	17.0 [16.2, 17.8]	1,034	11.5 [9.7, 13.6]
2015	3,816	22.6 [21.3, 23.9]	7,277	12.7 [12.0, 13.5]	18,063	10.7 [10.2, 11.1]	29,154	10.3 [10.0, 10.6]	2,520	15.8 [14.5, 17.3]	10,060	15.7 [15.0, 16.4]	1,055	11.5 [9.8, 13.6]
2014	3,717	23.5 [22.2, 24.9]	6,635	13.6 [12.8, 14.4]	16,847	11.2 [10.8, 11.7]	28,914	10.3 [ 9.9, 10.6]	2,878	17.2 [15.8, 18.5]	9,774	16.3 [15.6, 17.0]	965	12.5 [10.4, 14.6]
2013	3,909	24.1 [22.8, 25.4]	6,855	14.9 [14.0, 15.7]	16,663	11.7 [11.2, 12.2]	31,147	10.7 [10.4, 11.1]	3,461	16.5 [15.3, 17.8]	10,450	16.5 [15.8, 17.2]	1,017	15.0 [12.8, 17.2]
2012	4,053	23.5 [22.2, 24.8]	6,770	14.5 [13.7, 15.3]	16,972	11.7 [11.2, 12.1]	34,270	10.3 [ 9.9, 10.6]	4,086	17.9 [16.7, 19.1]	11,159	15.8 [15.1, 16.5]	1,045	14.5 [12.4, 16.7]
2011	4,165	24.4 [23.1, 25.7]	6,620	14.4 [13.6, 15.3]	16,543	11.9 [11.4, 12.4]	35,837	10.1 [ 9.8, 10.4]	4,591	17.9 [16.8, 19.0]	11,612	16.2 [15.6, 16.9]	1,043	13.6 [11.5, 15.7]

**Multi Year Overweight and Obesity Status in Minnesota WIC Children Ages 2 to 5 Years of Age by Race/Ethnicity Alone or In Combination with Other Races (AOIC)**  
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Year	Amer Indian NH AOIC Total	Amer Indian NH AOIC Percent [95% CI]	Asian NH AOIC Total	Asian NH AOIC Percent [95% CI]	Black/ African - Amer NH AOIC Total	Black / African- Amer NH AOIC Percent [95% CI]	White NH AOIC Total	White NH AOIC Percent [95% CI]	Amer Indian H AOIC Total	Amer Indian H AOIC Percent [95% CI]	White H AOIC Total	White H AOIC Percent [95% CI]	Other H AOIC Total	Other H AOIC Percent [95% CI]
<b>Overweight and Obese</b>														
2019	2,952	43.2 [41.1, 45.0]	6,222	30.8 [29.7, 31.9]	16,418	25.8 [25.1, 26.5]	22,545	26.5 [25.9, 27.1]	1,156	34.4 [31.7, 37.1]	7,949	34.9 [33.9, 35.9]	877	29.3 [25.3, 32.3]
2018	3,155	43.8 [42.1, 45.6]	6,764	29.6 [28.5, 30.7]	17,499	25.4 [24.8, 26.1]	24,123	26.4 [25.9, 27.0]	1,370	35.3 [32.8, 37.9]	8,632	35.5 [34.2, 36.2]	912	31.4 [28.4, 34.4]
2017	3,284	42.1 [40.4, 43.8]	7,000	29.5 [28.5, 30.6]	17,868	25.5 [24.9, 26.2]	25,788	26.9 [26.4, 27.5]	1,686	35.4 [33.2, 37.7]	9,206	34.4 [33.4, 35.3]	1,006	28.4 [25.7, 31.3]
2016	3,536	43.9 [42.3, 45.5]	7,297	29.0 [27.9, 30.0]	17,927	24.9 [24.3, 25.6]	27,669	26.7 [26.1, 27.2]	2,114	37.4 [35.3, 39.5]	9,530	34.4 [33.4, 35.3]	1,034	29.8 [27.1, 32.7]
2015	3,816	43.5 [42.0, 45.1]	7,277	28.6 [27.5, 29.6]	18,063	25.0 [24.3, 25.6]	29,154	25.7 [25.2, 26.2]	2,520	34.1 [32.2, 35.9]	10,060	33.1 [32.2, 34.1]	1,055	29.4 [26.7, 32.2]
2014	3,717	43.4 [41.8, 45.0]	6,635	27.4 [26.3, 28.5]	16,847	24.4 [23.8, 25.1]	28,914	25.2 [24.7, 25.7]	2,878	33.5 [31.7, 35.2]	9,774	33.1 [32.2, 34.0]	965	28.3 [25.4, 31.1]
2013	3,909	44.8 [43.2, 46.4]	6,855	30.1 [29.0, 31.2]	16,663	25.8 [25.1, 26.4]	31,147	26.5 [26.0, 27.0]	3,461	34.5 [32.9, 36.1]	10,450	33.9 [32.9, 34.8]	1,017	31.0 [28.1, 33.8]
2012	4,053	44.7 [43.2, 46.2]	6,770	30.8 [29.7, 31.9]	16,972	26.4 [25.7, 27.1]	34,270	25.8 [25.3, 26.3]	4,086	35.8 [34.3, 37.3]	11,159	33.4 [32.5, 34.2]	1,045	30.4 [27.6, 33.2]
2011	4,165	45.1 [43.6, 46.6]	6,620	31.3 [30.2, 32.4]	16,543	27.3 [26.6, 28.0]	35,837	25.6 [25.2, 26.1]	4,591	36.4 [35.0, 37.8]	11,612	34.2 [33.3, 35.0]	1,043	30.8 [28.0, 33.6]

Percent [95% Confidence Interval] Confidence intervals that do not overlap between two comparison years are statistically significant.

NH= Non Hispanic; H= Hispanic; AOIC= Alone or In Combination with other races

All percentile data are taken from the 2000 CDC Growth Charts. Total children ages 2 to 5 years with weight status information. Analyses based on one randomly selected record per child. Excludes records with unknown data or errors. Biologically implausible values (BIV) for weight, height and BMI at a z score +5 removed, which is consistent with previous MN WIC reports for years 2011 to 2016. For 2017 and later, BIV was defined for weight z score <-5 and >8; height z score <-5 and >4; BMI z score <-4 and >8. <https://www.cdc.gov/nccdphp/dnpao/growthcharts/resources/sas.htm> These methodologies excluded <1 of all records.

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For more information contact: Minnesota WIC Program 1 (800) 657-3942

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- <sup>1</sup> Calendar Year
  - <sup>2</sup> Includes Asian, Pacific Islander and Native Hawaiian
  - <sup>3</sup> Includes African and African-American
  - <sup>4</sup> Includes Black Hispanic and Asian Hispanic
  - <sup>5</sup> BMI for age  $\geq$  85th percentile and  $<$  95th percentile
  - <sup>6</sup> Includes Asian, Pacific Islander and Native Hawaiian
  - <sup>7</sup> Includes African and African-American
  - <sup>8</sup> Includes Black Hispanic and Asian Hispanic
  - <sup>9</sup> Calendar Year
  - <sup>10</sup> Includes Asian, Pacific Islander and Native Hawaiian
  - <sup>11</sup> Includes African and African-American
  - <sup>12</sup> Includes Black Hispanic and Asian Hispanic
  - <sup>13</sup> Includes Asian, Pacific Islander and Native Hawaiian
  - <sup>14</sup> Includes African and African-American
  - <sup>15</sup> Includes Black Hispanic and Asian Hispanic