

2023-24 32N OST References and Methodology

County-level Students Eligible for Free/Reduce Priced Lunch: Data is from the Michigan League for Public Policy (2024) for 2023.

County-level OST Providers: Data is from the Michigan Afterschool Partnership’s (2023) Number of providers per county map.

County-level K12 Population: Data is from the Michigan League for Public Policy (2023a, 2023b) for 2022. To find the population of youth ages from five to 17, data from Michigan League for Public Policy (2023b) was subtracted from 2023a. Because of the variation of the data, it cannot be categorized by standard deviation. Instead, it is categorized as “Very Low” to “Very High” through five equal percentiles based on the sample size. Counties without any youth from the ages of five to 17 are excluded and marked as “No Youth.”

Sample Size	83	Minimum	.249	Maximum	279150
Mean	17582.8674	Standard Deviation	39558.2996		
Skewness Statistic	4.789	Skewness Std. Error	0.264		
Kurtosis Statistic	26.384	Kurtosis Std. Error	0.523		
Label					
	Minimum	Maximum			
Very Low	249	2177			
Low	2178	4088			
Moderate	4089	7757			
High	7758	21130			
Very High	21131	279150			

County-level Level of Students Eligible for Free/Reduce-Priced Lunch: Data is from the Michigan League for Public Policy (2024) for 2023. The following labels were given to counties based on their percentage of K12 students receiving free or reduced-price lunch and its relation to the mean and standard deviation. Counties without any youth from the ages of five to 17 are excluded and marked as “No Youth.”

Sample Size	82	Minimum	.2440	Maximum	.9790
Mean	.574817	Standard Deviation	.1122796		
Skewness Statistic	-.080	Skewness Std. Error	.266		
Kurtosis Statistic	1.668	Kurtosis Std. Error	.526		
Label					
	Description	Minimum	Maximum		
Very Low	0 to -1 Std. Deviation from Mean	.2440	0.46254		
Low	-0.5 to -1 Std. Deviation from Mean	0.46255	0.51868		
Moderate	-0.5 to 0.5 Std. Deviation from Mean	0.51869	0.63096		
High	0.5 to 1.0 Std. Deviation from Mean	0.63097	0.68710		
Very High	1.0 Std. Deviation from Mean to 1	0.68710	.9790		

ZIP Code-Level Child Opportunity Level: Data is from DiversityDataKids.org’s Child Opportunity Index 3.0 and its Overall Index ZIP Code score normed for Michigan. The year of observation is 2021.

ZIP Code-Level Geographic Type: Data is from the Education Demographic and Geographic Estimates Program (EDGE): Locale Boundaries for Michigan in 2021.

ZIP Code-Level K12 Majority Youth Racial Composition: Using Manson et al. (2023), youth population ages five to 17 was calculated by summing NHGIS code fields in racial/ethnic categories.

- White (including Hispanic): AQYHE003, AQYHE004, AQYHE005, AQYHE006, AQYHE018, AQYHE019, AQYHE020, and AQYHE021.
- Black/African American: AQYIE004, AQYIE005, AQYIE006, AQYIE019, AQYIE020, and AQYIE021.
- AIAN: AQYJE004, AQYJE005, AQYJE006, AQYJE019, AQYJE020, and AQYJE021.
- Asian: AQYKE004, AQYKE005, AQYKE006, AQYKE019, AQYKE020, and AQYKE021.
- NHPI: AQYLE004, AQYLE005, AQYLE006, AQYLE019, AQYLE020, and AQYLE021.
- Some Other Race: AQYME004, AQYME005, AQYME006, AQYME019, AQYME020, and AQYME021.
- Two or More Races: AQYNE004, AQYNE005, AQYNE006, AQYNE019, AQYNE020, and AQYNE021.
- White (not Hispanic): AQYOE004, AQYOE005, AQYOE006, AQYOE019, AQYOE020, and AQYOE021.
- Hispanic: (AQYHE004, AQYHE005, AQYHE006, AQYHE019, AQYHE020, and AQYHE021) – (AQYOE004, AQYOE005, AQYOE006, AQYOE019, AQYOE020, and AQYOE021).

Majority Youth Racial Composition lists what, if any, racial/ethnic identity makes up 51% or greater of a ZIP code's youth population after dividing the racial population by the total. ZIP codes without any youth between the ages of five and 17 are excluded and marked as "No Youth."

diversitydatakids.org (2024). Child Opportunity Index 3.0 database. Institute for Child, Youth and Family Policy at the Heller School for Social Policy and Management at Brandeis University.

Manson, S., Schroeder, J., Van Riper, D., Knowles, K., Kugler, T., Roberts, F., & Ruggles, S. (2023a). IPUMS National Historical Geographic Information System: Version 18.0 [2022 American Community Survey: 5-Year Data [2018-2022, Block Groups & Larger Areas]. Minneapolis, MN: IPUMS. <http://doi.org/10.18128/D050.V18.0>

Michigan League for Public Policy. (2023a, October). Population ages birth to 5 in Michigan. *KIDS COUNT Data Center from the Annie E. Casey Foundation*. <https://datacenter.aecf.org/data/tables/11525-population-ages-birth-to-5?loc=24&loct=5#detailed/5/3744-3826/false/1095,2048/any/22721>

Michigan League for Public Policy. (2023b, October). Population ages birth to 17 in Michigan. *KIDS COUNT Data Center from the Annie E. Casey Foundation*. <https://datacenter.aecf.org/data/tables/11525-population-ages-birth-to-5?loc=24&loct=5#detailed/5/3744-3826/false/1095,2048/any/22721>

Michigan League for Public Policy. (2024, March). Students who are economically disadvantaged (previously Students Eligible for Free or Reduced-Price Lunch) in Michigan. *KIDS COUNT Data Center from the Annie E. Casey Foundation*. <https://datacenter.aecf.org/data/tables/11525-population-ages-birth-to-5?loc=24&loct=5#detailed/5/3744-3826/false/1095,2048/any/22721>

U.S. Department of Education (2021). Education Demographic and Geographic Estimates Program (EDGE): Locale Boundaries. National Center for Education Statistics.