

Population Estimates for Allocation Planning

County level population estimates for Phase 1B Group A and B and Phase 1C Group A: 65 years and older, frontline essential workers, school and child care staff, and corrections staff. These are estimates and will change as additional information becomes available.

County	70% ^a of People 65 Years & Older ^b	Frontline Essential Workers ^b	School & Child Care Staff ^b	Current Target Population	Corrections Staff ^c
Michigan	1,199,349	67,604	415,187	1,682,140	9,647
Alcona	2,601	65	304	2,970	
Alger	1,648	52	385	2,085	254
Allegan	13,545	486	3,718	17,749	
Alpena	4,605	175	822	5,602	
Antrim	4,448	108	746	5,302	
Arenac	2,619	79	419	3,117	
Baraga	1,301	56	401	1,758	289
Barry	7,900	420	2,108	10,428	
Bay	14,732	767	4,083	19,582	
Benzie	3,258	99	748	4,105	
Berrien	21,279	1,157	7,067	29,503	
Branch	5,538	277	1,377	7,192	294
Calhoun	16,662	966	4,851	22,479	
Cass	7,585	295	2,182	10,062	
Charlevoix	4,472	118	821	5,411	
Cheboygan	4,873	155	727	5,755	
Chippewa	4,757	209	1,546	6,512	784
Clare	5,105	147	1,592	6,844	
Clinton	9,351	497	3,567	13,415	
Crawford	2,484	83	391	2,958	
Delta	6,042	201	1,487	7,730	
Dickinson	3,943	167	1,185	5,295	
Eaton	14,235	711	5,100	20,046	
Emmet	5,223	149	1,034	6,406	
Genesee	49,685	2,551	14,627	66,863	
Gladwin	4,745	128	678	5,551	
Gogebic	2,749	105	744	3,598	
Grand Traverse	12,884	493	3,713	17,090	
Gratiot	4,974	202	2,187	7,363	762
Hillsdale	6,248	231	1,967	8,446	
Houghton	4,420	233	1,659	6,312	
Huron	5,490	137	987	6,614	
Ingham	27,609	1,702	19,704	49,015	
Ionia	6,655	339	2,336	9,330	1,341
Iosco	5,209	129	683	6,021	
Iron	2,387	75	535	2,997	
Isabella	6,227	334	3,620	10,181	
Jackson	19,677	656	5,341	25,674	1,527
Kalamazoo	27,747	1,603	14,281	43,631	
Kalkaska	2,524	78	543	3,145	
Kent	62,427	3,413	27,536	93,376	

County	70% ^a of People 65 Years & Older ^b	Frontline Essential Workers ^b	School & Child Care Staff ^b	Current Target Population	Corrections Staff ^c
Keweenaw	538	14	98	650	
Lake	2,387	47	414	2,848	
Lapeer	11,149	468	4,183	15,800	317
Leelanau	4,700	123	927	5,750	
Lenawee	13,049	495	4,210	17,754	478
Livingston	22,997	1,509	8,256	32,762	
Luce	918	36	266	1,220	218
Mackinac	2,095	60	446	2,601	
Macomb	103,542	6,761	28,267	138,570	334
Manistee	4,400	140	1,056	5,596	303
Marquette	8,883	427	3,038	12,348	338
Mason	4,789	118	1,030	5,937	
Mecosta	5,549	227	1,565	7,341	
Menominee	3,926	130	964	5,020	
Midland	10,686	595	3,168	14,449	
Missaukee	2,168	68	470	2,706	
Monroe	19,029	1,200	6,105	26,334	
Montcalm	7,853	336	2,316	10,505	454
Montmorency	2,103	58	271	2,432	
Muskegon	20,662	1,103	5,756	27,521	454
Newaygo	6,539	199	1,739	8,477	
Oakland	147,957	6,660	57,823	212,440	
Oceana	3,837	109	954	4,900	
Ogemaw	3,781	108	572	4,461	
Ontonagon	1,481	43	307	1,831	
Osceola	3,465	125	860	4,450	
Oscoda	1,572	51	240	1,863	
Otsego	3,662	143	671	4,476	
Ottawa	30,390	1,901	13,939	46,230	
Presque Isle	2,800	79	372	3,251	
Roscommon	5,405	122	645	6,172	
Saginaw	25,698	1,249	6,950	33,897	310
St. Clair	20,916	1,471	5,582	27,969	
St. Joseph	7,632	375	1,865	9,872	
Sanilac	6,163	179	1,284	7,626	
Schoolcraft	1,504	46	340	1,890	
Shiawassee	8,775	395	2,915	12,084	
Tuscola	7,491	231	1,660	9,382	
Van Buren	9,539	429	3,182	13,150	
Washtenaw	35,946	1,803	31,701	69,450	892
Wayne	189,067	17,974	59,942	266,983	298
Wexford	4,448	149	1,036	5,633	
City of Detroit	72,415	6,884	22,958	102,257	114
Wayne LHD ^d	116,651	11,090	36,983	164,723	184

a 70% aligns with the goal of vaccinating 70% of Michiganders over age 16 by the end of 2021.

b American Communities Survey estimates from CDC Tiberius system.

c Michigan Department of Corrections data (MDOC) on number of staff. Allocations for MDOC are allocated directly. Vaccine for other state essential workers will be allocated directly to the local health departments separately from this tool.

d Wayne County LHD includes residents of Wayne County, who are not also residents of the City of Detroit.

Allocation Adjustments Based on Vulnerability

The CDC Social Vulnerability Index (SVI) is used to adjust population-based allocation of vaccinations to increase supplies to communities at greater risk for adverse outcomes from COVID-19.

The SVI Multiplier is based on the [Social Vulnerability Index](#) (SVI) which identifies places where a community may have more difficulty preventing human suffering and financial loss in a disaster. The SVI assess the extent that 15 known vulnerabilities (indicators) are present within a community. The SVI multiplier increases every jurisdiction's estimated population, but by differing amounts, meaning that the vaccine allocation increases or decreases for jurisdictions.

When SVI is used to adjust vaccine allocations, the population is multiplied by the SVI Multiplier (calculated by the 2018 SVI data set RPL_THEMES and average census tracts for the jurisdiction). The adjusted population distribution is then used to allocate the number of doses to each jurisdiction. Areas with higher SVI values will see an increase in vaccine allocation, areas with lower SVI values will see a decrease.

Formula when not using SVI Multiplier:

Step 1	Jurisdiction Population	÷	Sum of Jurisdiction Populations	=	Jurisdiction Proportion
Step 2	Jurisdiction Proportion	×	State Supply of Doses	=	Doses Allocated to Jurisdiction

Formula when using SVI Multiplier:

Step 1	Jurisdiction Population	×	SVI Multiplier	=	Adjusted Jurisdiction Population
Step 2	Adjusted Jurisdiction Population	÷	Sum of Adjusted Jurisdiction Populations	=	Adjusted Jurisdiction Proportion
Step 3	Adjusted Jurisdiction Proportion	×	State Supply of Doses	=	Doses Allocated to Jurisdiction

Comparison of two local health jurisdictions:

Without applying the SVI Multiplier, Michigan's eligible population in this phase is estimated at 1,682,138.

- Detroit's eligible population is estimated at 102,257 or 6.08% of the state's total population. If the state got 10,000 doses of vaccine, Detroit's allocation would be 608 doses.
- Shiawassee's eligible population is estimated at 11,015, which is 0.65% of state's total eligible population. If the state got 10,000 doses, Shiawassee's share would be 65 doses.

Detroit's SVI Multiplier is 2. That doubles Detroit's eligible population estimate to 204,412.

Shiawassee's SVI Multiplier is 1.20 which increases their eligible population by 20% to 13,217.

The sum of all SVI adjusted jurisdiction's populations is 3,197,939.

- Detroit's SVI adjusted proportion is 6.4% of the state's SVI adjusted population. If the state got 10,000 doses, Detroit's SVI adjusted share would be 639 doses, instead of 608 doses without the SVI adjustment.
- Shiawassee's SVI adjusted proportion is 0.41% of the state's SVI adjusted population. Shiawassee would get 41 doses of state vaccine, instead of 65 without the SVI adjustment.

Local Health Department	>64 years & Frontline Workers	SVI Multiplier
Allegan	17,749	1.29
Bay	19,582	1.60
Barry-Eaton	30,474	1.33
Berrien	29,503	1.64
Branch-Hillsdale-St. Joseph	25,509	1.84
Benzie-Leelanau	9,855	1.11
Calhoun	22,479	1.91
Chippewa	6,512	1.82
Central Michigan	36,315	1.93
Detroit	102,257	2.00
District Health Department #10	49,540	1.89
District Health Department #2	15,315	1.87
District Health Department #4	17,040	1.58
Dickinson-Iron	8,292	1.42
Delta-Menominee	12,750	1.49
Genesee	66,863	1.73
Grand Traverse	17,090	1.13
Huron	6,614	1.53
Ingham	49,015	1.56
Ionia	9,330	1.71
Jackson	25,674	1.67
Kalamazoo	43,631	1.44
Kent	93,376	1.51
Lapeer	15,800	1.31
Lenawee	17,754	1.47
Livingston	32,762	1.02
Luce, Mackinac, Alger and Schoolcraft	7,796	1.98
Macomb	138,570	1.40
Marquette	12,348	1.22
Midland	14,449	1.16
Mid Michigan	31,283	1.38
Monroe	26,334	1.18
Muskegon	27,521	1.76
Northwest Michigan	21,595	1.24
Oakland	212,440	1.04
Ottawa	46,230	1.09
Saginaw	33,897	1.78
St. Clair	27,969	1.27
Sanilac	7,626	1.80
Shiawassee	12,084	1.20
Tuscola	9,382	1.69
Van Buren-Cass	23,211	1.96
Washtenaw	69,450	1.07
Wayne	164,723	1.42
Western Upper Peninsula	14,149	1.62
Michigan	1,682,138	