

**Anemia in Infants and Children Participating in MN WIC by Calendar Year and CHB of Residence
Minnesota WIC Information System**

CHB of Residence	Total¹	Anemia² (%)
MINNESOTA		
2019	78,209	10,586 (13.5)
2018	82,556	11,888 (14.4)
2017	87,076	12,432 (14.3)
2016	89,903	11,975 (13.3)
2015	92,777	11,922 (12.9)
2014	94,231	11,151 (11.8)
2013	94,972	10,521 (11.1)
2012	97,573	10,663 (10.9)
2011	102,753	10,944 (10.7)
AITKIN-ITASCA-KOOCHICHING		
2019	1,023	78 (7.6)
2018	1,051	121 (11.5)
2017	1,079	105 (9.7)
2016	1,119	116 (10.4)
2015	1,188	116 (9.8)
2014	1,227	109 (8.9)
2013	1,286	118 (9.2)
2012	1,375	100 (7.3)
2011	1,482	105 (7.1)
ANOKA		
2019	3,962	450 (11.4)
2018	4,015	458 (11.4)
2017	4,054	441 (10.9)
2016	3,989	406 (10.2)
2015	4,345	424 (9.8)
2014	4,419	372 (8.4)
2013	4,221	343 (8.1)
2012	4,465	376 (8.4)
2011	4,719	383 (8.1)
BELTRAMI		
2019	1,371	210 (15.3)
2018	1,394	220 (15.8)
2017	1,463	201 (13.7)
2016	1,602	174 (10.9)
2015	1,640	195 (11.9)
2014	1,804	284 (15.7)
2013	1,834	345 (18.8)
2012	1,839	358 (19.5)
2011	2,027	344 (17.0)

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CHB of Residence	Total¹	Anemia² (%)
BENTON		
2019	648	58 (9.0)
2018	650	72 (11.1)
2017	696	72 (10.3)
2016	702	79 (11.3)
2015	687	78 (11.4)
2014	676	88 (13.0)
2013	644	53 (8.2)
2012	676	54 (8.0)
2011	739	45 (6.1)
BLUE EARTH		
2019	814	143 (17.6)
2018	844	238 (28.2)
2017	814	212 (26.0)
2016	884	186 (21.0)
2015	902	145 (16.1)
2014	902	113 (12.5)
2013	935	86 (9.2)
2012	985	98 (9.9)
2011	1,053	120 (11.4)
BROWN- NICOLLET		
2019	780	77 (9.9)
2018	806	85 (10.5)
2017	804	80 (10.0)
2016	857	58 (6.8)
2015	780	77 (9.9)
2014	939	45 (4.8)
2013	882	50 (5.7)
2012	933	58 (6.2)
2011	961	57 (5.9)
CARLTON- COOK-LAKE-ST. LOUIS		
2019	2,828	229 (8.1)
2018	2,997	269 (9.0)
2017	3,265	239 (7.3)
2016	3,316	254 (7.7)
2015	3,445	270 (7.8)
2014	3,485	216 (6.2)
2013	3,669	246 (6.7)
2012	3,990	208 (5.2)
2011	4,370	275 (6.3)

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CHB of Residence	Total¹	Anemia² (%)
CARVER		
2019	527	58 (11.0)
2018	559	57 (10.2)
2017	614	67 (10.9)
2016	603	70 (11.6)
2015	601	62 (10.3)
2014	596	48 (8.1)
2013	619	38 (6.1)
2012	642	42 (6.5)
2011	687	51 (7.4)
CASS		
2019	661	88 (13.3)
2018	704	133 (18.9)
2017	686	94 (13.7)
2016	719	105 (14.6)
2015	825	115 (13.9)
2014	785	95 (12.1)
2013	814	102 (12.5)
2012	847	93 (11.0)
2011	956	51 (5.3)
CHISAGO		
2019	496	45 (9.1)
2018	534	58 (10.9)
2017	586	77 (13.1)
2016	575	71 (12.3)
2015	604	55 (9.1)
2014	598	40 (6.7)
2013	677	34 (5.0)
2012	699	42 (6.0)
2011	742	65 (8.8)
COUNTRYSIDE		
2019	799	93 (11.6)
2018	886	87 (9.8)
2017	928	131 (14.1)
2016	945	97 (10.3)
2015	976	154 (15.8)
2014	978	122 (12.5)
2013	977	103 (10.5)
2012	1,053	106 (10.1)
2011	1,109	92 (8.3)

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CHB of Residence	Total¹	Anemia² (%)
CROW WING		
2019	922	87 (9.4)
2018	955	128 (13.4)
2017	1,035	193 (18.6)
2016	1,093	210 (19.2)
2015	1,160	90 (7.8)
2014	1,207	89 (7.4)
2013	1,290	67 (5.2)
2012	1,332	58 (4.4)
2011	1,508	57 (3.8)
DAKOTA		
2019	4,246	399 (9.4)
2018	4,548	463 (10.2)
2017	4,620	429 (9.3)
2016	4,716	456 (9.7)
2015	4,850	433 (8.9)
2014	5,011	396 (7.9)
2013	5,167	423 (8.2)
2012	5,306	461 (8.7)
2011	5,514	458 (8.3)
DES MOINES VALLEY		
2019	387	40 (10.3)
2018	396	61 (15.4)
2017	399	130 (32.6)
2016	410	52 (12.7)
2015	430	66 (15.3)
2014	401	54 (13.5)
2013	444	60 (13.5)
2012	478	98 (20.5)
2011	490	57 (11.6)
DODGE-STEELE		
2019	863	101 (11.7)
2018	906	66 (7.3)
2017	967	73 (7.5)
2016	1,102	108 (9.8)
2015	1,101	133 (12.1)
2014	1,114	102 (9.2)
2013	1,171	94 (8.0)
2012	1,226	81 (6.6)
2011	1,340	88 (6.6)

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CHB of Residence	Total¹	Anemia² (%)
FARIBAULT- MARTIN		
2019	575	53 (9.2)
2018	553	81 (14.6)
2017	613	102 (16.6)
2016	637	79 (12.4)
2015	655	101 (15.4)
2014	724	88 (12.2)
2013	699	67 (9.6)
2012	747	59 (7.9)
2011	803	65 (8.1)
FILLMORE- HOUSTON		
2019	470	65 (13.8)
2018	471	65 (13.8)
2017	492	58 (11.8)
2016	524	50 (9.5)
2015	537	53 (9.9)
2014	499	69 (13.8)
2013	500	66 (13.2)
2012	546	80 (14.7)
2011	622	55 (8.8)
FREEBORN		
2019	570	27 (4.7)
2018	570	52 (9.1)
2017	629	63 (10.0)
2016	657	68 (10.4)
2015	749	69 (9.2)
2014	771	58 (7.5)
2013	749	39 (5.2)
2012	806	24 (3.0)
2011	833	47 (5.6)
GOODHUE		
2019	466	35 (7.5)
2018	455	52 (11.4)
2017	531	53 (10.0)
2016	533	46 (8.6)
2015	568	52 (9.2)
2014	593	60 (10.1)
2013	639	42 (6.6)
2012	682	42 (6.2)
2011	721	51 (7.1)

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CHB of Residence	Total¹	Anemia² (%)
HENNEPIN- BLOOMINGTON		
2019	1,046	92 (8.8)
2018	1,082	85 (7.9)
2017	1,160	107 (9.2)
2016	1,149	134 (11.7)
2015	1,162	118 (10.2)
2014	1,154	109 (9.4)
2013	1,180	118 (10.0)
2012	1,180	144 (12.2)
2011	1,199	130 (10.8)
HENNEPIN- EDINA		
2019	136	17 (12.5)
2018	139	10 (7.2)
2017	149	14 (9.4)
2016	158	16 (10.1)
2015	168	15 (8.9)
2014	177	16 (9.0)
2013	178	20 (11.2)
2012	169	18 (10.7)
2011	175	11 (6.3)
HENNEPIN- MINNEAPOLIS		
2019	6,844	1,397 (20.4)
2018	8,123	1,721 (21.2)
2017	8,973	1,834 (20.4)
2016	9,846	1,873 (19.0)
2015	10,120	1,987 (19.6)
2014	10,533	1,845 (17.5)
2013	10,375	1,764 (17.0)
2012	10,145	1,689 (16.6)
2011	10,839	1,692 (15.6)
HENNEPIN- RICHFIELD		
2019	506	50 (9.9)
2018	580	64 (11.0)
2017	610	54 (8.9)
2016	656	71 (10.8)
2015	713	69 (9.7)
2014	765	77 (10.1)
2013	795	74 (9.3)
2012	789	74 (9.4)
2011	836	82 (9.8)

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CHB of Residence	Total¹	Anemia² (%)
HENNEPIN-SUBURBAN		
2019	5,977	1,115 (18.7)
2018	6,766	1,293 (19.1)
2017	7,545	1,345 (17.8)
2016	7,596	1,365 (18.0)
2015	7,874	1,413 (17.9)
2014	7,890	1,478 (18.7)
2013	7,883	1,355 (17.2)
2012	7,739	1,252 (16.2)
2011	8,422	1,438 (17.1)
HORIZON		
2019	948	154 (16.2)
2018	1,034	167 (16.2)
2017	1,090	125 (11.5)
2016	1,114	145 (13.0)
2015	1,161	108 (9.3)
2014	1,255	135 (10.8)
2013	1,226	101 (8.2)
2012	1,319	102 (7.7)
2011	1,394	83 (6.0)
ISANTI		
2019	583	35 (6.0)
2018	579	28 (4.8)
2017	630	36 (5.7)
2016	677	34 (5.0)
2015	680	36 (5.3)
2014	647	27 (4.2)
2013	676	21 (3.1)
2012	779	36 (4.6)
2011	781	33 (4.2)
KANABEC		
2019	287	41 (14.3)
2018	303	47 (15.5)
2017	294	38 (12.9)
2016	306	45 (14.7)
2015	300	42 (14.0)
2014	318	45 (14.2)
2013	322	47 (14.6)
2012	313	42 (13.4)
2011	355	36 (10.1)

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KANDIYOHI- RENVILLE		
2019	1,529	201 (13.1)
2018	1,564	173 (11.1)
2017	1,552	170 (11.0)
2016	1,595	169 (10.6)
2015	1,571	178 (11.3)
2014	1,506	153 (10.2)
2013	1,533	165 (10.8)
2012	1,586	159 (10.0)
2011	1,621	145 (8.9)
LE SUEUR- WASECA		
2019	639	88 (13.8)
2018	613	117 (19.1)
2017	723	128 (17.7)
2016	739	85 (11.5)
2015	723	66 (9.1)
2014	715	55 (7.7)
2013	743	45 (6.1)
2012	801	75 (9.4)
2011	828	81 (9.8)
MEEKER- MCLEOD-SIBLEY		
2019	1,126	102 (9.1)
2018	1,152	125 (10.9)
2017	1,236	152 (12.3)
2016	1,285	136 (10.6)
2015	1,325	130 (9.8)
2014	1,349	109 (8.1)
2013	1,385	104 (7.5)
2012	1,446	76 (5.3)
2011	1,643	123 (7.5)
MILLE LACS COUNTY		
2019	547	79 (14.4)
2018	581	66 (11.4)
2017	571	79 (13.8)
2016	552	89 (16.1)
2015	589	60 (10.2)
2014	598	104 (17.4)
2013	619	75 (12.1)
2012	649	52 (8.0)
2011	766	66 (8.6)

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CHB of Residence	Total¹	Anemia² (%)
MORRISON- TODD-WADENA		
2019	1,240	90 (7.3)
2018	1,302	123 (9.4)
2017	1,427	128 (9.0)
2016	1,458	74 (5.1)
2015	1,547	108 (7.0)
2014	1,477	92 (6.2)
2013	1,491	113 (7.6)
2012	1,630	114 (7.0)
2011	1,707	105 (6.2)
MOWER		
2019	934	102 (10.9)
2018	897	90 (10.0)
2017	922	81 (8.8)
2016	918	90 (9.8)
2015	934	101 (10.8)
2014	952	110 (11.6)
2013	1,065	85 (8.0)
2012	1,141	102 (8.9)
2011	1,138	110 (9.7)
NOBLES		
2019	848	25 (2.9)
2018	855	63 (7.4)
2017	848	58 (6.8)
2016	864	40 (4.6)
2015	786	60 (7.6)
2014	811	44 (5.4)
2013	796	53 (6.7)
2012	809	46 (5.7)
2011	822	36 (4.4)
NORTH COUNTRY		
2019	620	44 (7.1)
2018	675	69 (10.2)
2017	693	75 (10.8)
2016	640	51 (8.0)
2015	703	62 (8.8)
2014	704	53 (7.5)
2013	735	55 (7.5)
2012	769	61 (7.9)
2011	818	344 (5.5)

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CHB of Residence	Total¹	Anemia² (%)
OLMSTED		
2019	2,260	426 (18.8)
2018	2,300	449 (19.5)
2017	2,386	448 (18.8)
2016	2,459	385 (15.7)
2015	2,568	386 (15.0)
2014	2,696	321 (11.9)
2013	2,685	342 (12.7)
2012	2,862	384 (13.4)
2011	3,015	370 (12.3)
PARTNERSHIP 4 HEALTH		
2019	2,829	182 (6.4)
2018	2,936	211 (7.2)
2017	3,034	230 (7.6)
2016	2,987	189 (6.3)
2015	3,118	241 (7.7)
2014	3,120	200 (6.4)
2013	3,137	193 (6.2)
2012	3,274	233 (7.1)
2011	3,436	197 (5.7)
PINE		
2019	465	87 (18.7)
2018	461	64 (13.9)
2017	488	74 (15.2)
2016	483	62 (12.8)
2015	547	68 (12.4)
2014	484	44 (9.1)
2013	479	32 (6.7)
2012	565	50 (8.8)
2011	648	71 (11.0)
POLK-NORMAN-MAHNOMEN		
2019	1,036	41 (4.0)
2018	1,094	56 (5.1)
2017	1,165	121 (10.4)
2016	1,110	81 (7.3)
2015	1,176	96 (8.2)
2014	1,242	78 (6.3)
2013	1,206	100 (8.3)
2012	1,249	129 (10.3)
2011	1,313	106 (8.1)

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CHB of Residence	Total¹	Anemia² (%)
QUIN		
2019	913	36 (3.9)
2018	989	26 (2.6)
2017	1,006	38 (3.8)
2016	1,093	44 (4.0)
2015	1,126	44 (3.9)
2014	1,139	44 (3.9)
2013	1,164	48 (4.1)
2012	1,157	57 (4.9)
2011	1,212	64 (5.3)
RAMSEY		
2019	12,453	2,659 (21.4)
2018	12,978	2,666 (20.5)
2017	13,608	2,736 (20.1)
2016	14,348	2,716 (18.9)
2015	14,585	2,464 (16.9)
2014	14,822	2,338 (15.8)
2013	14,713	2,107 (14.3)
2012	14,586	2,203 (15.1)
2011	14,525	2,307 (15.9)
RICE		
2019	1,052	95 (9.0)
2018	1,098	145 (13.2)
2017	1,193	220 (18.4)
2016	1,135	204 (18.0)
2015	1,158	172 (14.9)
2014	1,229	191 (15.5)
2013	1,271	183 (14.4)
2012	1,345	141 (10.5)
2011	1,356	161 (11.9)
SCOTT		
2019	1,326	139 (10.5)
2018	1,341	206 (15.4)
2017	1,429	216 (15.1)
2016	1,441	163 (11.3)
2015	1,489	185 (12.4)
2014	1,504	171 (11.4)
2013	1,491	142 (9.5)
2012	1,551	164 (10.6)
2011	1,659	167 (10.1)

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SHERBURNE		
2019	1,064	85 (8.0)
2018	1,090	109 (10.0)
2017	1,106	117 (10.6)
2016	1,197	103 (8.6)
2015	1,182	86 (7.3)
2014	1,165	97 (8.3)
2013	1,141	95 (8.3)
2012	1,267	82 (6.5)
2011	1,348	67 (5.0)
SOUTHWEST		
2019	1,594	98 (6.1)
2018	1,641	91 (5.5)
2017	1,658	86 (5.2)
2016	1,713	76 (4.4)
2015	1,752	107 (6.1)
2014	1,666	87 (5.2)
2013	1,730	88 (5.1)
2012	1,767	94 (5.3)
2011	1,843	91 (4.9)
STEARNS		
2019	2,926	327 (11.2)
2018	2,954	363 (12.3)
2017	2,960	378 (12.8)
2016	2,843	342 (12.0)
2015	2,692	336 (12.5)
2014	2,615	276 (10.6)
2013	2,512	195 (7.8)
2012	2,494	180 (7.2)
2011	2,555	176 (6.9)
WABASHA		
2019	228	13 (5.7)
2018	218	14 (6.4)
2017	251	17 (6.8)
2016	289	32 (11.1)
2015	285	30 (10.5)
2014	295	15 (5.1)
2013	291	22 (7.6)
2012	322	22 (6.8)
2011	333	24 (7.2)

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CHB of Residence	Total¹	Anemia² (%)
WASHINGTON		
2019	1,804	174 (9.6)
2018	1,812	203 (11.2)
2017	1,905	215 (11.3)
2016	1,978	202 (10.2)
2015	2,181	212 (9.7)
2014	2,228	146 (6.6)
2013	2,329	181 (7.8)
2012	2,492	194 (7.8)
2011	2,560	205 (8.0)
WATONWAN		
2019	291	19 (6.5)
2018	321	21 (6.5)
2017	312	27 (8.7)
2016	318	19 (6.0)
2015	305	21 (6.9)
2014	294	33 (11.2)
2013	302	18 (6.0)
2012	333	30 (9.0)
2011	364	18 (4.9)
WINONA		
2019	439	65 (14.8)
2018	449	77 (17.1)
2017	490	98 (20.0)
2016	538	108 (20.1)
2015	580	124 (21.4)
2014	624	104 (16.7)
2013	668	107 (16.0)
2012	676	98 (14.5)
2011	706	93 (13.2)
WRIGHT		
2019	1,311	172 (13.1)
2018	1,335	180 (13.5)
2017	1,387	167 (12.0)
2016	1,435	147 (10.2)
2015	1,502	137 (9.1)
2014	1,528	106 (6.9)
2013	1,634	97 (5.9)
2012	1,742	122 (7.0)
2011	1,860	145 (7.8)

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CHB of Residence	Total¹	Anemia² (%)
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Number of children by Anemia status (percentage per 100)

**** percentages suppressed if denominator < 30

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Minnesota WIC by calendar year and Community Health Board of residence, Minnesota WIC Program: 2020.

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

¹ Total number of infants and children with valid hemoglobin measurements during the calendar year.

² Number of low hemoglobin measurements (percentage of total number infants and children with hemoglobin measurements during the calendar year. Low hemoglobin is <11.0 for infants/children <2 years of age and <11.1 for children > 2 years.