



## Vaccine Data

Montana began vaccinating individuals in mid-December 2020 with a phased process: Phase 1A on December 14, 2020, Phase 1B on January 19, 2021, and Phase 1B+ on March 8, 2021. Vaccinations were opened to all Montanans age 16+ on April 1, 2021 and expanded to all Montanans age 12+ on May 10<sup>th</sup>, 2021. Most recently, the Pfizer vaccine was approved for the 5-11 year old age group on October 29<sup>th</sup>, 2021. To date, 1,213,976 doses have been given across the state and 51% of the eligible population is considered fully vaccinated (table 3).

**Table 2: COVID-19 Vaccine Doses Administered for the 12 and older population – Montana, as of 11/26/2021**

	NUMBER	PERCENT OF ELIGIBLE POPULATION	WEEK ENDING 11/12	WEEK ENDING 11/19	WEEK ENDING 11/26*
TOTAL DOSES ADMINISTERED	<b>1,204,414</b>		<b>25,231</b>	<b>23,532</b>	<b>13,325</b>
DOSE 1 ADMINISTERED	<b>577,943</b>	<b>62%</b>	<b>3,507</b>	<b>3,506</b>	<b>2,260</b>
FULLY VACCINATED INDIVIDUALS	<b>516,618</b>	<b>56%</b>	<b>2,811</b>	<b>2,586</b>	<b>1,433</b>

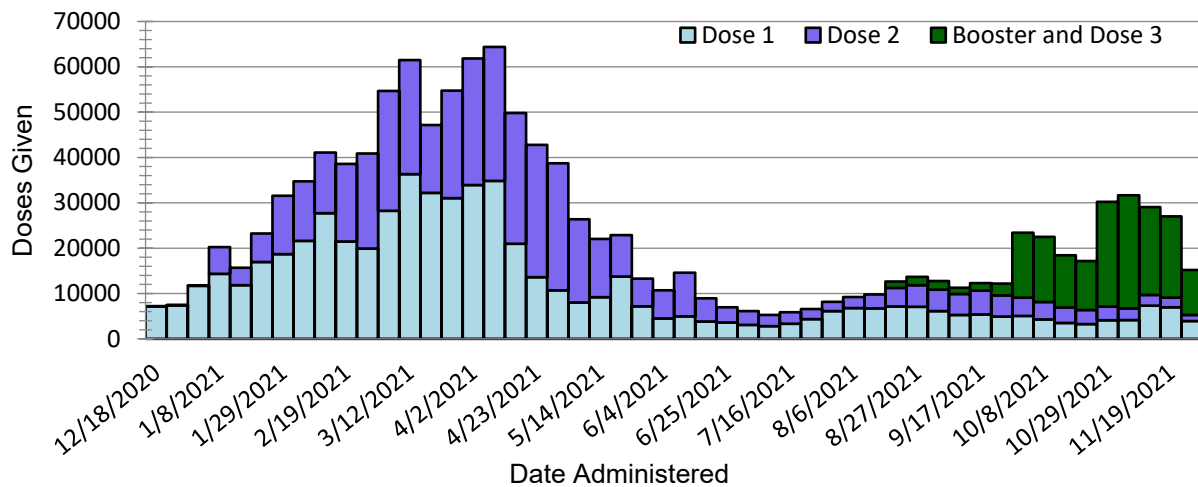
\*the data for the most recent week are preliminary and are expected to be an underestimate of the doses administered during the week, due to a reporting lag.

**Table 3: COVID-19 Vaccine Doses Administered for the 5 and older population – Montana, as of 11/26/2021**

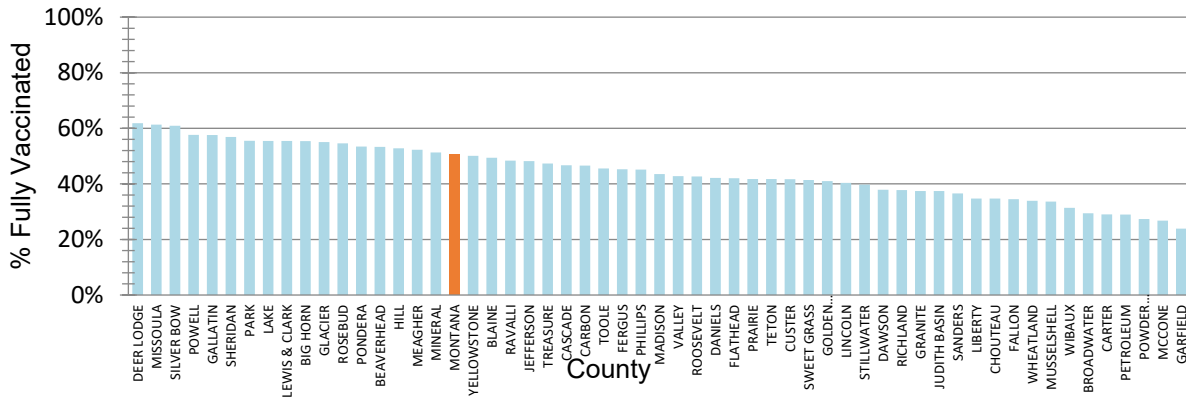
	NUMBER	PERCENT OF ELIGIBLE POPULATION	WEEK ENDING 11/12	WEEK ENDING 11/19	WEEK ENDING 11/26*
TOTAL DOSES ADMINISTERED	<b>1,213,976</b>		<b>29,037</b>	<b>27,004</b>	<b>15,198</b>
DOSE 1 ADMINISTERED	<b>587,297</b>	<b>58%</b>	<b>7,313</b>	<b>6,977</b>	<b>3,926</b>
FULLY VACCINATED INDIVIDUALS	<b>516,826</b>	<b>51%</b>	<b>2,811</b>	<b>2,587</b>	<b>1,640</b>

\*the data for the most recent week are preliminary and are expected to be an underestimate of the doses administered during the week, due to a reporting lag.

**Figure 3. COVID-19 Vaccine Doses Administered by Week, 5+ Years – Montana, as of 11/26/2021**



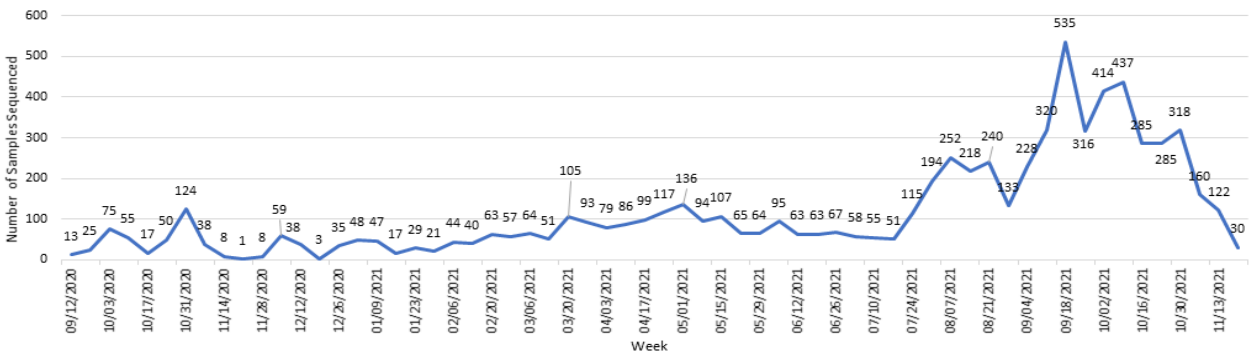
**Figure 4. Percent of Eligible Montanans (5+ years) Fully Vaccinated by County – Montana, 11/26/2021**



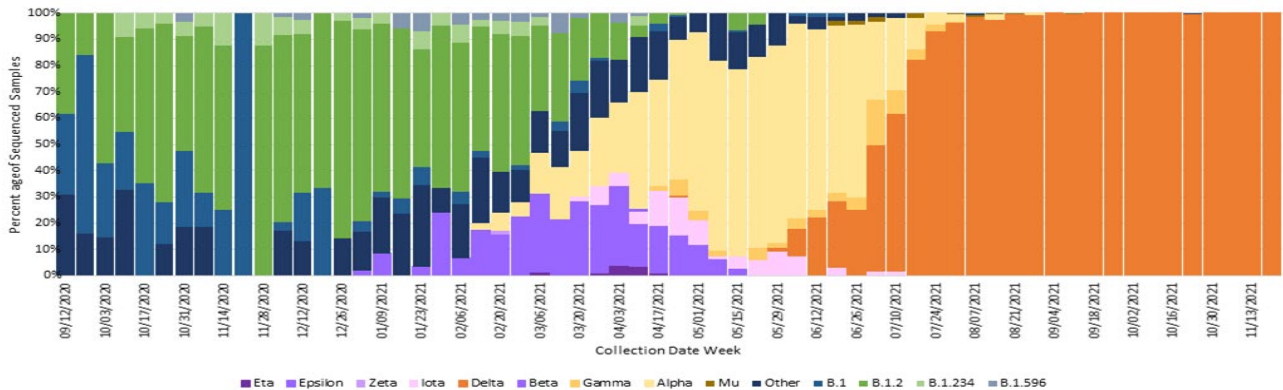
**Variant and Breakthrough Cases**

Figure 6 displays the percentage of the most common SARS-CoV-2 lineages detected each week, among all samples sequenced that were collected that week. There were 7,129 samples that were sequenced and their lineages were reported to GISAID since September 2020; figure 5 displays the number of specimens sequenced by week. A variant is a lineage that has one or more mutations that differentiate it from other lineages in circulation. Delta is the only Variant of Concern based on CDC’s variant classification system, and it is the dominant circulating strain in Montana. Omicron (B.1.1.529) is a new Variant of Concern classified by the World Health Organization. **There have been no Omicron variants detected in Montana at this time.** Of specimens collected and sequenced in October and November 2,050/2,051 (99.9%) are Delta. Delta has been the predominant variant in Montana since July 2021.

**Figure 5. Number of COVID-19 samples sequenced by collection date, Montana 11/30/2021 [n=7,129]**



**Figure 6. Percent of COVID-19 variants in sequenced samples by collection date, Montana 11/30/2021**



A breakthrough COVID-19 infection is defined as a positive SARS-CoV-2 specimen collected  $\geq 14$  days after completing the primary COVID-19 vaccine series of an FDA-authorized COVID-19 vaccine. Depending on the specific vaccine administered, completion of series could be one or two doses of vaccine. As of 11/30/21, Montana reports 14,728 cases of confirmed breakthrough disease, which includes 855 hospitalizations and 242 deaths. Over the past 8 weeks (October 2 – November 26) the number of cases among unvaccinated individuals was 4.2 times higher than the number of cases among vaccinated individuals; the number of hospitalizations and deaths among unvaccinated individuals were 3.9 and 3.2 times higher, respectively, compared to vaccinated individuals.

### Hospitalizations and Deaths and Vaccination Status

COVID-19-related hospitalizations and deaths were analyzed between **April 1 and November 26** to review vaccination status. Since the beginning of April this year, 83% of Montanans who were hospitalized and 77% of those who died were unvaccinated at the time of infection (Table 4). Of the 5,072 individuals who were hospitalized during this time period, 86 (2%) were <18 years old, 758 (15%) were 18 to 44 years old, 1,748 (34%) were 45 to 64 years old and 2,480 (49%) were  $\geq 65$  years old.

Additionally, COVID-19-related hospitalization and death data from **October 2 – November 26** (last 8 weeks) were analyzed to review vaccination status. Eighty percent of Montanans who were hospitalized and 76% of those who died had not received a COVID-19 vaccine (Table 5). Of the 1,939 individuals who were hospitalized during this time period, 36 (2%) were <18 years old, 230 (12%) were 18 to 44 years old, 651 (34%) were 45 to 64 years old and 1,022 (53%) were  $\geq 65$  years old.

**Table 4. Vaccination status of COVID-19 hospitalizations and deaths – April 1 to November 26, 2021**

	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	<b>5,072</b>	<b>1013</b>
UNVACCINATED	4,227 (83%)	781 (77%)
VACCINATED (BREAKTHROUGH CASE)	845 (17%)	232 (23%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<b>&lt;1-102 (62)</b>	<b>23-103 (70)</b>
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<b>16-101 (74)</b>	<b>43-101 (82)</b>

**Table 5. Vaccination status of COVID-19 hospitalizations and deaths – October 2 – November 26, 2021**

	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	<b>1,939</b>	<b>396</b>
UNVACCINATED	1,546 (80%)	302 (76%)
VACCINATED (BREAKTHROUGH CASE)	393 (20%)	94 (24%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<b>&lt;1-96 (63)</b>	<b>23-103 (71)</b>
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<b>17-101 (75)</b>	<b>50-101 (81)</b>

## Reported COVID-19 Cases by County with Trendline – Montana, past 6 weeks

County	22-Oct	29-Oct	5-Nov	12-Nov	19-Nov	26-Nov	change from previous week*	Trendline
Beaverhead	52	48	12	22	35	15	-20	
Big Horn	45	31	51	138	174	16	-158	
Blaine	40	27	63	6	43	15	-28	
Broadwater	25	19	34	26	22	33	11	
Carbon	76	14	42	58	42	40	-2	
Carter	1	1	1	21	4	1	-3	
Cascade	668	337	387	564	273	117	-156	
Chouteau	16	35	33	8	10	13	3	
Custer	95	52	71	49	64	21	-43	
Daniels	18	8	2	1	10	1	-9	
Dawson	66	60	65	46	22	25	3	
Deer Lodge	35	34	18	18	11	8	-3	
Fallon	12	26	11	19	14	11	-3	
Fergus	106	71	51	61	28	10	-18	
Flathead	471	515	403	345	338	229	-109	
Gallatin	650	477	462	426	382	218	-164	
Garfield	7	11	9	10	1	3	2	
Glacier	65	60	65	95	52	48	-4	
Golden Valley	6	22	7	4	3	0	-3	
Granite	26	14	8	3	1	3	2	
Hill	85	69	56	54	26	11	-15	
Jefferson	64	37	48	30	32	50	18	
Judith Basin	3	8	6	3	0	2	2	
Lake	153	205	96	138	100	71	-29	
Lewis and Clark	459	408	358	281	214	141	-73	
Liberty	4	4	2	3	0	2	2	
Lincoln	102	62	40	44	61	42	-19	
Madison	47	42	35	16	15	11	-4	
McCone	14	6	6	13	12	0	-12	
Meagher	3	8	9	4	2	3	1	

County	22-Oct	29-Oct	5-Nov	12-Nov	19-Nov	26-Nov	change from previous week*	Trendline
Mineral	21	15	7	12	10	5	-5	
Missoula	580	471	381	308	229	143	-86	
Musselshell	41	59	17	25	33	19	-14	
Park	149	98	187	41	63	31	-32	
Petroleum	1	0	1	1	2	1	-1	
Phillips	36	40	22	16	12	11	-1	
Pondera	25	9	9	4	13	10	-3	
Powder River	5	5	3	2	2	0	-2	
Powell	55	51	20	22	12	9	-3	
Prairie	3	3	4	5	6	3	-3	
Ravalli	139	130	58	92	114	24	-90	
Richland	86	31	61	29	73	11	-62	
Roosevelt	40	76	96	100	56	28	-28	
Rosebud	39	23	12	17	13	11	-2	
Sanders	42	44	47	24	32	21	-11	
Sheridan	6	14	6	7	6	10	4	
Silver Bow	146	149	128	85	106	52	-54	
Stillwater	43	51	40	13	0	2	2	
Sweet Grass	14	20	11	8	4	2	-2	
Teton	31	26	18	17	15	6	-9	
Toole	9	16	15	5	4	3	-1	
Treasure	3	5	6	0	6	7	1	
Valley	46	24	28	23	31	9	-22	
Wheatland	7	5	4	3	0	1	1	
Wibaux	2	4	2	2	2	2	0	
Yellowstone	947	1068	769	663	528	323	-205	
<b>MONTANA</b>	<b>5929</b>	<b>5148</b>	<b>4400</b>	<b>4032</b>	<b>3370</b>	<b>1904</b>	<b>-1466</b>	

\*Note: Data are based on the date of report into the Montana Infectious Disease Information System (MIDIS). Underlined numbers in the above table reflect adjusted counts and may include cases diagnosed but not reported in earlier time frames. These adjustments result from local and state data reconciliation efforts, conducted to ensure accurate data.

County name	Eligible population 5+	Dose 1	Dose 2	Dose 3	Fully Immunized	Total Doses Administered	Percent eligible with first dose (5+)	Percent Fully Vaccinated (5+)
BEAVERHEAD	9,091	5,207	4,164	994	4,847	10,365	57%	53%
BIG HORN	11,975	7,515	6,285	1,580	6,629	15,380	63%	55%
BLAINE	6,044	3,288	2,788	859	2,984	6,935	54%	49%
BROADWATER	6,092	2,146	1,564	553	1,793	4,263	35%	29%
CARBON	10,476	5,283	4,554	1,620	4,879	11,457	50%	47%
CARTER	1,141	352	311	70	331	733	31%	29%
CASCADE	76,124	39,515	31,804	9,557	35,555	80,876	52%	47%
CHOUTEAU	5,430	2,073	1,714	867	1,885	4,654	38%	35%
CUSTER	10,692	5,020	3,973	1,367	4,456	10,360	47%	42%
DANIELS	1,559	698	605	224	657	1,527	45%	42%
DAWSON	8,071	3,304	2,776	842	3,059	6,922	41%	38%
DEER LODGE	8,887	6,010	4,936	1,998	5,493	12,944	68%	62%
FALLON	2,646	998	867	280	913	2,145	38%	35%
FERGUS	10,495	5,175	4,378	1,539	4,749	11,092	49%	45%
FLATHEAD	99,993	48,274	37,975	12,411	42,000	98,660	48%	42%
GALLATIN	110,900	76,505	58,078	17,564	63,842	152,147	69%	58%
GARFIELD	1,188	308	242	56	284	606	26%	24%
GLACIER	12,447	9,798	6,346	1,702	6,851	17,846	79%	55%
GOLDEN VALLEY	788	350	291	78	323	719	44%	41%
GRANITE	3,218	1,383	1,098	321	1,205	2,802	43%	37%
HILL	14,914	8,939	6,693	2,458	7,874	18,090	60%	53%
JEFFERSON	11,819	6,340	5,305	2,029	5,697	13,674	54%	48%
JUDITH BASIN	1,880	760	644	151	703	1,555	40%	37%
LAKE	29,280	18,460	15,090	4,990	16,232	38,540	63%	55%
LEWIS & CLARK	66,257	42,247	33,970	13,463	36,718	89,680	64%	55%
LIBERTY	2,234	818	680	326	776	1,824	37%	35%
LINCOLN	19,480	8,869	7,211	2,367	7,858	18,447	46%	40%
MADISON	8,589	4,154	3,326	1,179	3,739	8,659	48%	44%
MCCONE	1,562	436	410	143	418	989	28%	27%
MEAGHER	1,726	970	826	279	902	2,075	56%	52%
MINERAL	4,302	2,446	1,759	517	2,206	4,722	57%	51%
MISSOULA	115,881	79,672	65,200	23,755	71,021	168,627	69%	61%
MUSSELSHELL	4,458	1,621	1,310	314	1,499	3,245	36%	34%
PARK	15,969	10,501	7,989	2,574	8,865	21,064	66%	56%
PETROLEUM	483	153	132	50	140	335	32%	29%
PHILLIPS	3,675	1,800	1,363	639	1,658	3,802	49%	45%
PONDERA	5,389	3,342	2,527	859	2,879	6,728	62%	53%
POWDER RIVER	1,588	469	386	111	434	966	30%	27%
POWELL	6,534	4,006	3,001	627	3,764	7,634	61%	58%
PRAIRIE	994	444	394	183	415	1,021	45%	42%
RAVALLI	42,972	23,142	18,500	7,143	20,787	48,785	54%	48%
RICHLAND	10,310	4,149	3,249	891	3,893	8,289	40%	38%
ROOSEVELT	9,918	4,813	3,614	886	4,233	9,313	49%	43%
ROSEBUD	8,160	5,123	3,950	1,189	4,454	10,262	63%	55%
SANDERS	11,641	4,686	3,988	1,001	4,256	9,675	40%	37%
SHERIDAN	3,075	1,864	1,620	715	1,750	4,199	61%	57%
SILVER BOW	33,267	22,466	19,013	6,587	20,259	48,066	68%	61%
STILLWATER	9,451	4,114	3,229	1,217	3,756	8,560	44%	40%
SWEET GRASS	3,523	1,599	1,238	494	1,458	3,331	45%	41%
TETON	5,819	2,924	1,998	774	2,428	5,696	50%	42%
TOOLE	4,391	2,126	1,653	313	2,000	4,092	48%	46%
TREASURE	623	397	273	81	295	751	64%	47%
VALLEY	6,931	3,201	2,531	1,193	2,964	6,925	46%	43%
WHEATLAND	2,035	744	647	169	690	1,560	37%	34%
WIBAUX	898	327	274	44	282	645	36%	31%
YELLOWSTONE	153,378	85,973	70,934	22,810	76,788	179,717	56%	50%
<b>MONTANA</b>	<b>1,020,663</b>	<b>587,297</b>	<b>469,676</b>	<b>157,003</b>	<b>516,826</b>	<b>1,213,976</b>	<b>58%</b>	<b>51%</b>