

ш 0% %

100% 80% 100% 1

GOLDEN VALLEY

JUDITH BASIN

FALLON

Figure 4. Percent of Eligible Montanans (5+ years) Fully Vaccinated by County - Montana, 11/12/2021

Variant and Breakthrough Cases

PONDERA AVERHEAD MEAGHER

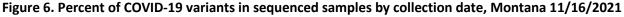
MINERAL

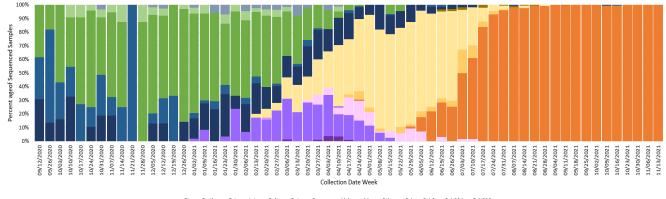
EFFERSON

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 6,620 samples that were sequenced and their lineages were reported to <u>GISAID</u> 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 at this time, and it is the dominant circulating strain in Montana. Of specimens collected and sequenced in October and November 1,568/1,571 (99.8%) are Delta. Aside from Delta, all other former variants of concern and interest have been re-classified as Variants Being Monitored. Delta has been the predominant variant in Montana since July 2021.

County

Figure 5. Number of COVID-19 samples sequenced by collection date, Montana 11/16/2021 [n=6,620]







A breakthrough COVID-19 infection is defined as a positive SARS-CoV-2 specimen collected ≥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 11/16/21, Montana reports 13,533 cases of confirmed breakthrough disease, which includes 786 hospitalizations and 209 deaths. Over the past 8 weeks (September 18 – November 12) the number of cases among unvaccinated individuals was 4.6 times higher than the number of cases among vaccinated individuals; the number of hospitalizations and deaths among unvaccinated individuals were 4.4 and 3.3 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 12** to review vaccination status. Since the beginning of April this year, 84% of Montanans who were hospitalized and 77% of those who died were unvaccinated at the time of infection (Table 4). Of the 4,692 individuals who were hospitalized during this time period, 81 (2%) were <18 years old, 722 (15%) were 18 to 44 years old, 1,613 (34%) were 45 to 64 years old and 2,276 (49%) were >65 years old.

Additionally, COVID-19-related hospitalization and death data from **September 18**– **November 12** (last 8 weeks) were analyzed to review vaccination status. Eighty-one percent of Montanans who were hospitalized and 76% of those who died had not received a COVID-19 vaccine (Table 5). Of the 2,240 individuals who were hospitalized during this time period, 47 (2%) were <18 years old, 294 (13%) were 18 to 44 years old, 746 (33%) were 45 to 64 years old and 1,153 (51%) were >65 years old.

Table 4. Vaccination status of COVID-19 hospitalizations and deaths – April 1 to November 12, 2021

	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	4,692	867
UNVACCINATED	3,922 (84%)	667 (77%)
VACCINATED (BREAKTHROUGH CASE)	770 (16%)	200 (23%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	GE) <1-102 (62) 24-103 (70)	
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	16-101 (75)	43-99 (83)

Table 5. Vaccination status of COVID-19 hospitalizations and deaths – September 18 – November 12, 2021 HOSPITALIZATIONS DEATHS

TOTAL REPORTED	2,240	409
UNVACCINATED	1,810 (81%)	312 (76%)
VACCINATED (BREAKTHROUGH CASE)	430 (19%)	97 (24%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<1-97 (62)	24-103 (71)
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	16-101 (75)	45-99 (83)

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	5,081	4,127	613	4,798	9,821	56%	53%
BIG HORN	11,975	7,207	6,158	1,255	6,485	14,620	60%	54%
BLAINE	6,044	3,269	2,755	793	2,951	6,817	54%	49%
BROADWATER	6,092	2,109	1,539	365	1,766	4,013	35%	29%
CARBON	10,476	5,173	4,527	1,236	4,845	10,936	49%	46%
CARTER	1,141	349	306	36	326	691	31%	29%
CASCADE	76,124	38,886	31,549	7,915	35,202	78,350	51%	46%
CHOUTEAU	5,430	2,031	1,685	807	1,853	4,523	37%	34%
CUSTER	10,692	4,903	3,933	1,051	4,416	9,887	46%	41%
DANIELS	1,559	694	595	184	646	1,473	45%	41%
DAWSON	8,071	3,253	2,737	546	3,014	6,536	40%	37%
DEER LODGE	8,887	5,916	4,880	1,606	5,440	12,402	67%	61%
FALLON	2,646	974	863	253	904	2,090	37%	34%
FERGUS	10,495	5,066	4,320	1,121	4,679	10,507	48%	45%
FLATHEAD	99,993			10,057	41,494	94,971	47%	41%
		47,363	37,551	•		•		
GALLATIN	110,900	74,723	57,370	13,912	63,031	146,005	67%	57%
GARFIELD	1,188	305	241	39	283	585	26%	24%
GLACIER	12,447	9,396	6,280	1,253	6,784	16,929	75%	55%
GOLDEN VALLEY	788	342	287	56	318	685	43%	40%
GRANITE	3,218	1,373	1,090	230	1,198	2,693	43%	37%
HILL	14,914	8,562	6,560	2,138	7,659	17,260	57%	51%
JEFFERSON	11,819	6,163	5,199	1,614	5,588	12,976	52%	47%
JUDITH BASIN	1,880	742	633	113	691	1,488	39%	37%
LAKE	29,280	18,071	14,916	3,918	16,046	36,905	62%	55%
LEWIS & CLARK	66,257	40,666	33,649	10,805	36,354	85,120	61%	55%
LIBERTY	2,234	802	673	283	769	1,758	36%	34%
LINCOLN	19,480	8,694	7,141	1,722	7,772	17,557	45%	40%
MADISON	8,589	4,076	3,289	749	3,695	8,114	47%	43%
MCCONE	1,562	431	400	105	408	936	28%	26%
MEAGHER	1,726	958	826	216	900	2,000	56%	52%
MINERAL	4,302	2,404	1,736	286	2,180	4,426	56%	51%
MISSOULA	115,881	77,584	64,456	19,347	70,189	161,387	67%	61%
MUSSELSHELL	4,458	1,583	1,292	189	1,475	3,064	36%	33%
PARK	15,969	10,249	7,927	1,942	8,795	20,118	64%	55%
PETROLEUM	483	153	132	48	140	333	32%	29%
PHILLIPS	3,675	1,702	1,295	300	1,582	3,297	46%	43%
PONDERA	5,389	3,264	2,496	669	2,846	6,429	61%	53%
POWDER RIVER	1,588	464	378	80	425	922	29%	27%
POWELL	6,534	3,971	2,984	484	3,737	7,439	61%	57%
PRAIRIE	994	432	385	43	405	860	43%	41%
RAVALLI	42,972	22,636	18,256	5,421	20,506	46,313	53%	48%
RICHLAND	10,310	4,049	3,217	585	3,847	7,851	39%	37%
ROOSEVELT	9,918	4,708	3,560	603	4,148	8,871	47%	42%
ROSEBUD	8,160	4,708	3,913	827	4,409	9,651	60%	54%
SANDERS	11,641	4,595	3,949	633	4,199	9,177	39%	36%
SHERIDAN							60%	56%
SILVER BOW	3,075	1,831	1,602	598 5 402	1,728	4,031		60%
	33,267	21,996	18,780	5,493	20,011	46,269	66%	
STILLWATER	9,451	4,033	3,193	910	3,709	8,136	43%	39%
SWEET GRASS	3,523	1,591	1,235	442	1,452	3,268	45%	41%
TETON	5,819	2,884	1,978	681	2,400	5,543	50%	41%
TOOLE	4,391	2,094	1,631	237	1,981	3,962	48%	45%
TREASURE	623	384	263	74	283	721	62%	45%
VALLEY	6,931	3,104	2,482	830	2,887	6,416	45%	42%
WHEATLAND	2,035	728	639	138	679	1,505	36%	33%
WIBAUX	898	310	270	36	277	616	35%	31%
YELLOWSTONE	153,378	83,892	70,067	18,225	75,769	172,184	55%	49%
MONTANA	1,020,663	573,130	464,195	124,112	510,374	1,161,437	56%	50%