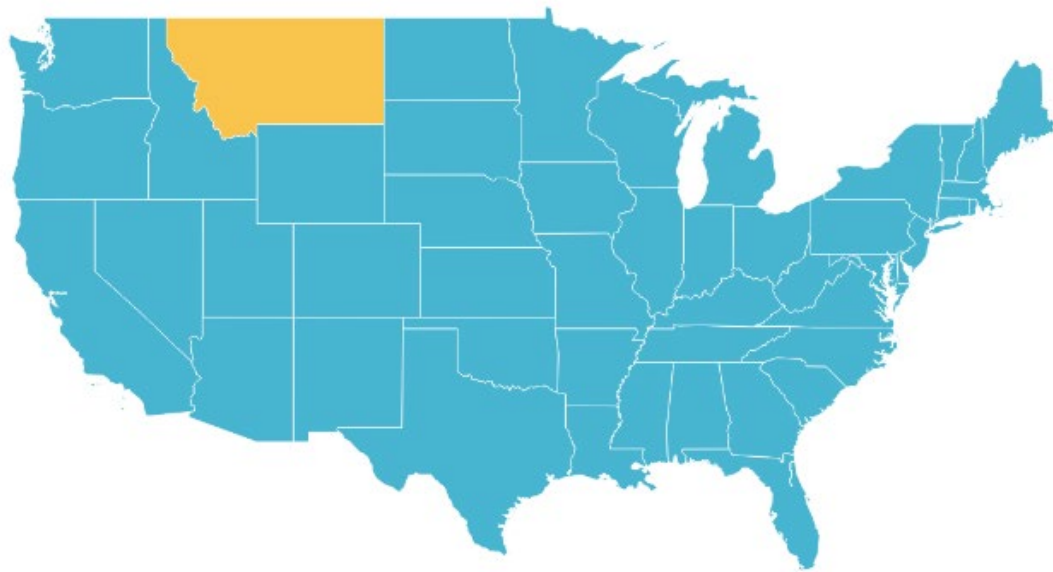


Montana Physician Workforce Visuals

September 2020



Prepared for Montana Area Health Education Center, Montana Office of Rural Health and the Montana Graduate Medical Education Council

Prepared by Jena Smith, WIM Tracking LLC
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PRIMARY CARE PHYSICIANS

TABLE 1: Population to Primary Care Physician (FTE) Ratio

Family Medicine, Internal Medicine, Pediatrics, OB/GYN, Maternal and Fetal Medicine and Geriatrics

County	A Count	B Tour Hours (Weekly)	C FTE	D % Change (Count to FTE)	E County Population Census July 2019 Estimates	F Population to FTE Ratio
Beaverhead	11	341	8.53	23%	9,412	1101:1
Big Horn ❶	3	71	1.78	41%	13,365	7530:1
Blaine ❶	2	26	0.65	68%	6,774	10422:1
Broadwater	2	78	1.95	3%	6,072	3114:1
Carbon	5	178	4.45	11%	10,691	2402:1
Carter	0	0	0.00	--	1,230	--
Cascade ❶ ❸	48	1,611	40.28	16%	81,688	2028:1
Chouteau	1	31	0.78	23%	5,740	7406:1
Custer ❸	8	241	6.03	25%	11,592	1924:1
Daniels	0	0	0.00	--	1,729	--
Dawson ❸	7	226	5.65	19%	8,680	1536:1
Deer Lodge ❸	8	217	5.43	32%	9,129	1683:1
Fallon ❷ ❸	1	20	0.50	50%	2,912	5824:1
Fergus ❸	6	182	4.55	24%	11,117	2443:1
Flathead	77	2,110	52.75	31%	102,017	1934:1
Gallatin	80	2,230	55.75	30%	111,682	2003:1
Garfield	0	0	0.00	--	1,257	--
Glacier ❶ ❷	2	62	1.55	23%	13,828	8921:1
Golden Valley	0	0	0.00	--	822	--
Granite	0	0	0.00	--	3,371	--
Hill ❶	8	197	4.93	38%	16,342	3318:1
Jefferson	2	65	1.63	19%	12,094	7442:1
Judith Basin	0	0	0.00	--	1,946	--
Lake ❶	22	729	18.23	17%	30,220	1658:1
Lewis and Clark ❶	46	1,482	37.05	19%	68,622	1852:1
Liberty	1	40	1.00	0%	2,416	2416:1
Lincoln	12	330	8.25	31%	19,797	2400:1
McCone	0	0	0.00	--	1,669	--
Madison	6	134	3.35	44%	8,530	2546:1
Meagher	2	28	0.70	65%	1,857	2653:1
Mineral	1	40	1.00	0%	4,307	4307:1
Missoula ❶	81	2,345	58.63	28%	118,640	2024:1

County	A Count	B Tour Hours (Weekly)	C FTE	D % Change (Count to FTE)	E County Population Census July 2019 Estimates	F Population to FTE Ratio
Musselshell	0	0	0.00	--	4,632	--
Park	12	294	7.35	39%	16,648	2265:1
Petroleum	0	0	0.00	--	512	--
Phillips ②	1	40	1.00	0%	4,060	4060:1
Pondera ① ③	3	34	0.85	72%	5,960	7012:1
Powder River	0	0	0.00	--	1,720	--
Powell ③	5	160	4.00	20%	6,953	1738:1
Prairie	0	0	0.00	--	1,070	--
Ravalli	25	696	17.40	30%	43,166	2481:1
Richland	8	199	4.98	38%	10,855	2182:1
Roosevelt ① ③	2	58	1.45	28%	11,069	7634:1
Rosebud ① ③	1	8	0.20	80%	9,040	45200:1
Sanders ①	6	172	4.30	28%	11,847	2755:1
Sheridan ③	2	30	0.75	63%	3,386	4515:1
Silver Bow ① ③	21	581	14.53	31%	34,739	2392:1
Stillwater	4	108	2.70	33%	9,483	3512:1
Sweet Grass	2	51	1.28	36%	3,703	2904:1
Teton	0	0	0.00	--	6,117	--
Toole	6	148	3.70	38%	4,835	1307:1
Treasure	1	4	0.10	90%	673	6730:1
Valley	4	108	2.70	33%	7,406	2743:1
Wheatland ② ③	1	6	0.15	85%	2,184	14560:1
Wibaux	0	0	0.00	--	1,030	--
Yellowstone ① ③	114	3,299	82.48	28%	160,029	1940:1

Data Source: Montana Primary Care Office data (2020) and US Census Data (2019)

*Does not include IHS or Tribal Health physicians (see page 13 for a report on American Indian Health).

13 counties in Montana do not have a practicing primary care physician. Ten of those counties do have a primary care physician assistant or nurse practitioner. Some counties may have a primary care physician on staff, but who only operates as a supervisor, long term care or emergency care provider.

TABLE 1 Properties

① An Indian Health Service Unit, Tribal Health or Urban Indian Health Center is located within the county, but physician counts (Column A) and tour hours (Column B) are not represented in the table. See Table 3 for breakdown of Indian Health Service Unit Tribal Health physicians. See Table 4 for a breakdown of Urban Indian Health Center providers.

② During the 2020 Health Professionals Assessment, a facility within this county noted they utilize a locum tenens physician. Hours for locum tenens physicians are not included in the total tour hours and FTE for the county.

③ *The county has a primary care physician who is one of the nearest (in miles) primary care physicians from a county that does not have a primary care physician. See Table 2 for a breakdown of distance and drive times used for this determination.*

Column A: Count is a total count of primary care physicians in active practice in each county. Each provider is counted only once per county. A provider may be represented more than once in the county headcount if the provider serves patients in multiple counties. However, if the provider serves patients at more than one facility in the same county, the provider is only counted once in that county.

Column B: Tour Hours are the total sum of face to face primary care hours available by all primary care physicians in the county. Locum Tenens, telehealth, administrative, supervising, in-patient or emergency room hours are not included. Additional tour hours may be available in the county, but the hours would be dedicated to care outside of primary care (i.e. inpatient care, emergency care, long term care, urgent care).

Column C: FTE is the number of FTE primary care physicians per county based on tour hours.

Column D: Percentage change count to FTE summarizes the overestimate of providers when looking solely at the headcount. ***Provider Count (Column A) – FTE (Column C) = Difference from Headcount to FTE, Difference from Headcount to FTE / Provider Count (Column A) = % Change from Count to FTE***

Column E: U.S. Census: Annual Estimates of Resident Pop. for Counties: April 1, 2010 to July 1, 2019.

Column F: Population to FTE ratio.

Physician Tour Hours and FTE Calculation

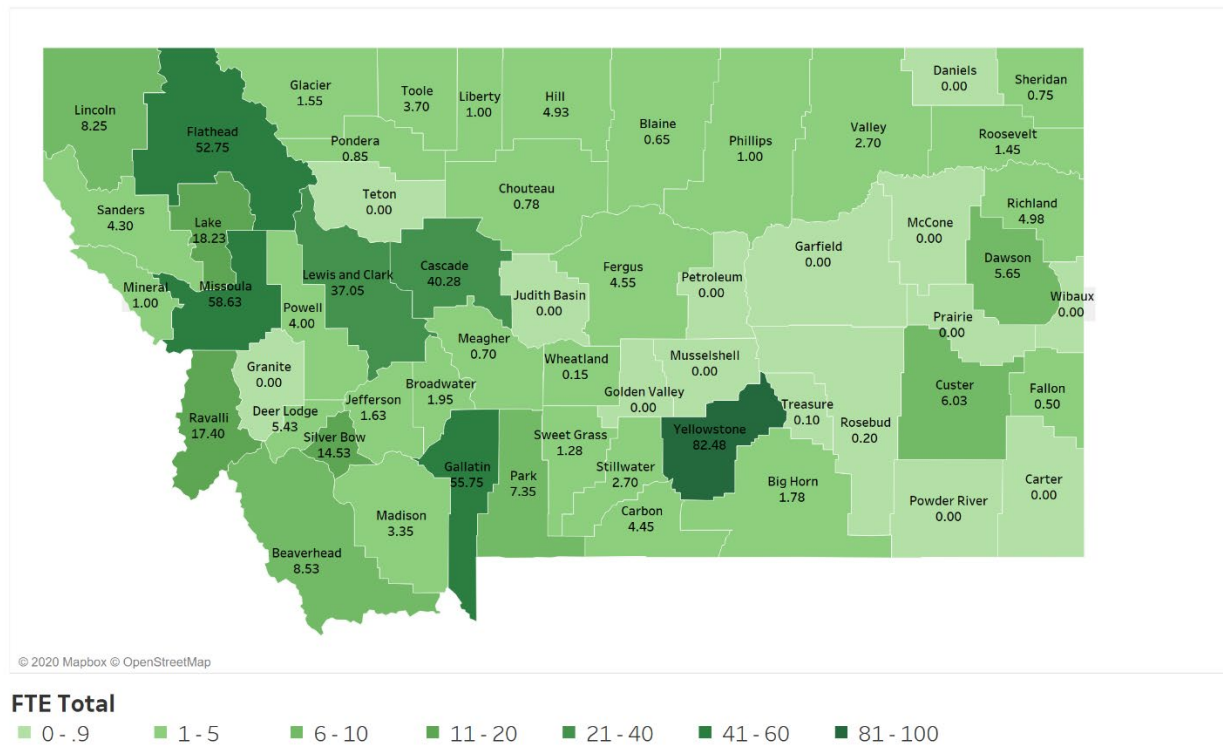
The Montana Primary Care Office (PCO) collects an annual head count and average number of tour hours for every primary care physician in active clinical practice across Montana. Every service delivery site in Montana is contacted through U.S.P.S mail, email and by phone. In 2020, the PCO contracted with WIM Tracking, LLC to manage the data collection process.

This data is submitted by CEOs, practice managers, human resource managers and providers through a web-based form titled 2020 Montana Primary Care Office Health Professionals Assessment. The site contact uses the form to confirm the primary care physicians in active practice at the location and the average weekly tour hours the physician serves patients face to face in a primary care setting. If a provider serves patients at multiple locations, tour hours are submitted for that provider by each site.

The tour hours were used to calculate the FTE per county based on the Health Resources Service Administration's (HRSA) definition of Full Time Equivalent (FTE) as 40 hours per week. HRSA and the Montana PCO define primary care physicians as those specializing in internal medicine, obstetrics and gynecology, maternal and fetal medicine, family medicine, pediatrics, and geriatrics.

The tour hours were collected from February to May 2020. Eighty percent of the physicians submitted tour hours in 2020. For those who did not submit tour hours, their current practice location was confirmed by WIM Tracking and the tour hours submitted to the PCO in 2019 were applied. In cases where a physician has never submitted tour hours, the tour hours default to 40.

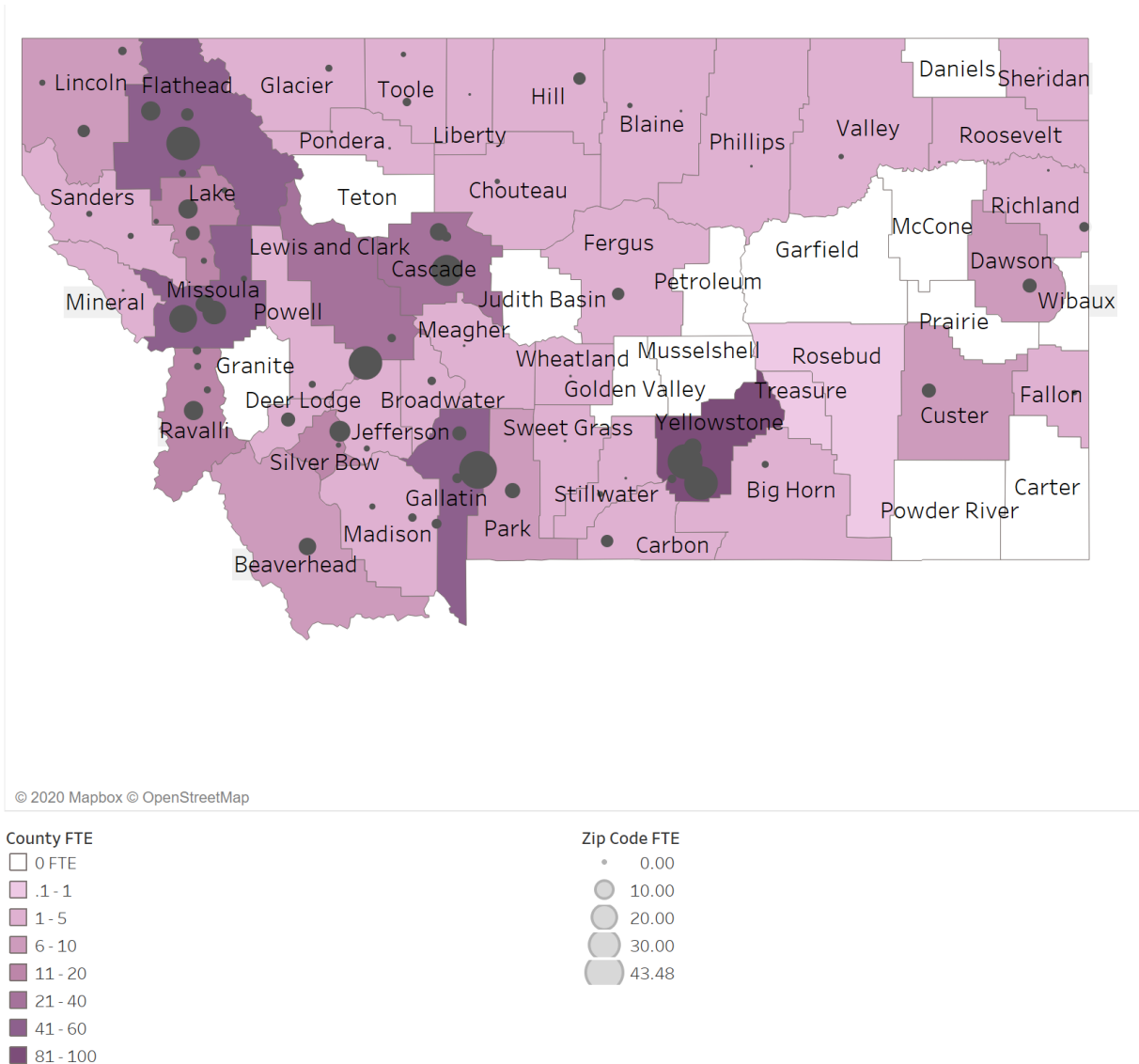
MAP 1: Primary Care Physician FTE by County



Data Source: Montana Primary Care Office data (2020) compiled and analyzed by WIM Tracking

**Does not include IHS or Tribal Health physicians (see page 13 for a report on American Indian Health).*

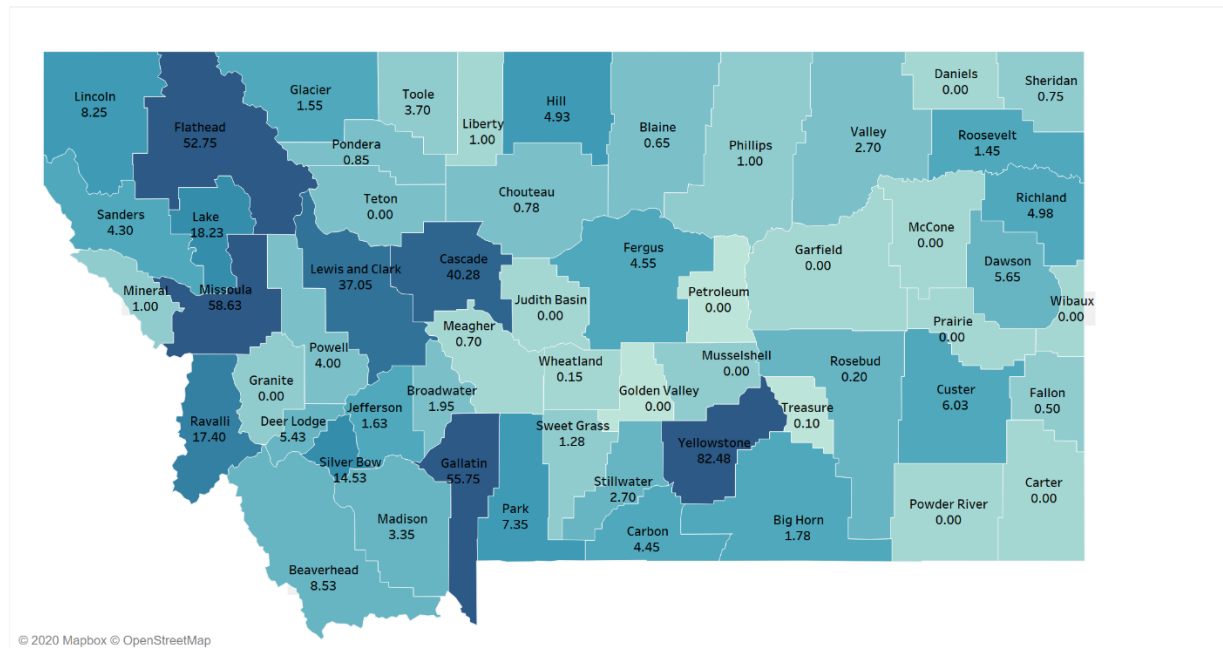
MAP 2: Primary Care Physician FTE: Practice Locations Plotted by Zip Code



Data Source: Montana Primary Care Office data (2020) compiled and analyzed by WIM Tracking

**Does not include IHS or Tribal Health physicians (see page 13 for a report on American Indian Health).*

MAP 3: Primary Care Physician FTE By County Population Range



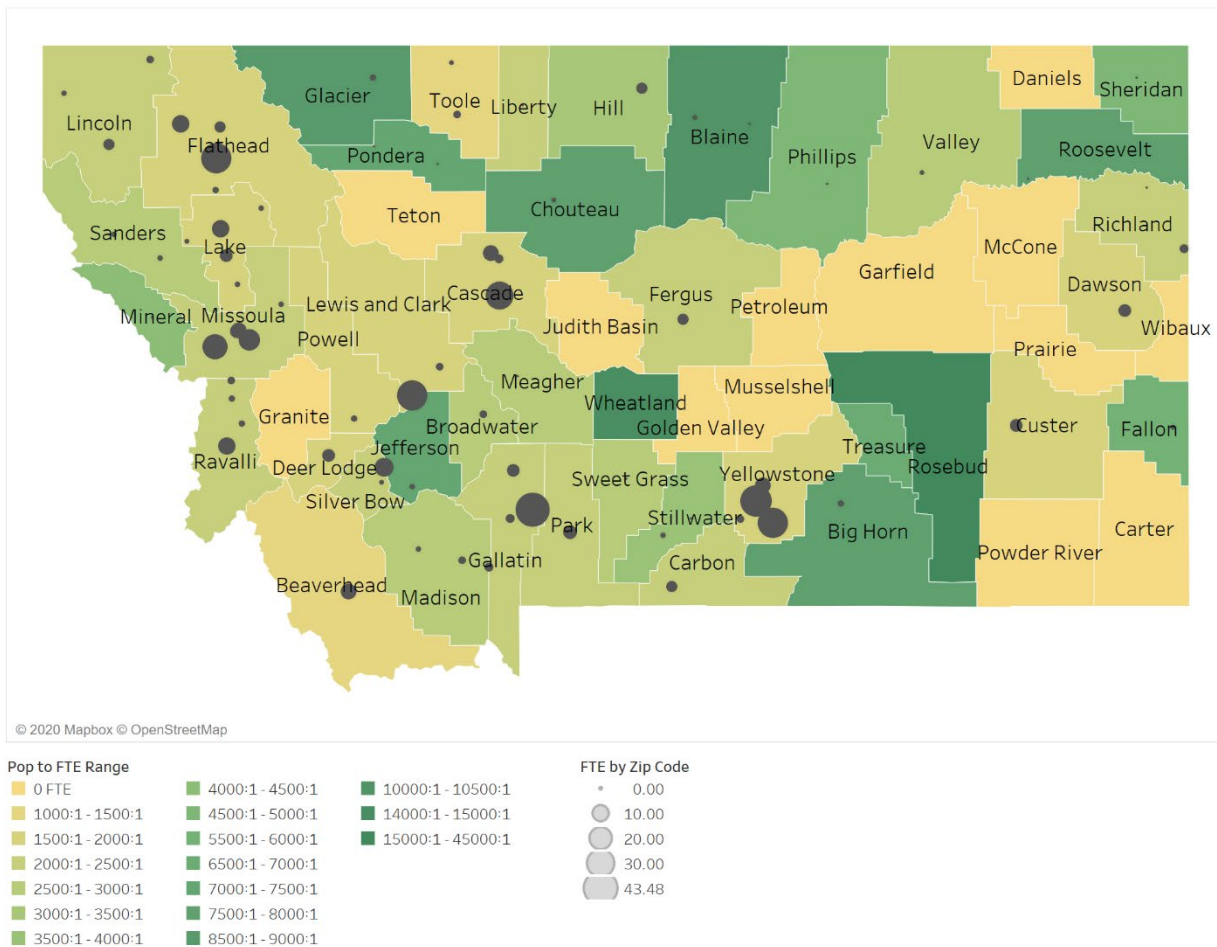
County Population Range

- Under 1000
- 1000 to 2500
- 2500 to 5000
- 5000 to 7500
- 7500 to 10000
- 10000 to 15000
- 15000 to 25000
- 25000 to 35000
- 35000 to 45000
- 65000 to 75000
- 75000 to 85000
- Over 100000

Data Source: Montana Primary Care Office data (2020) compiled and analyzed by WIM Tracking

**Does not include IHS or Tribal Health physicians (see page 13 for a report on American Indian Health).*

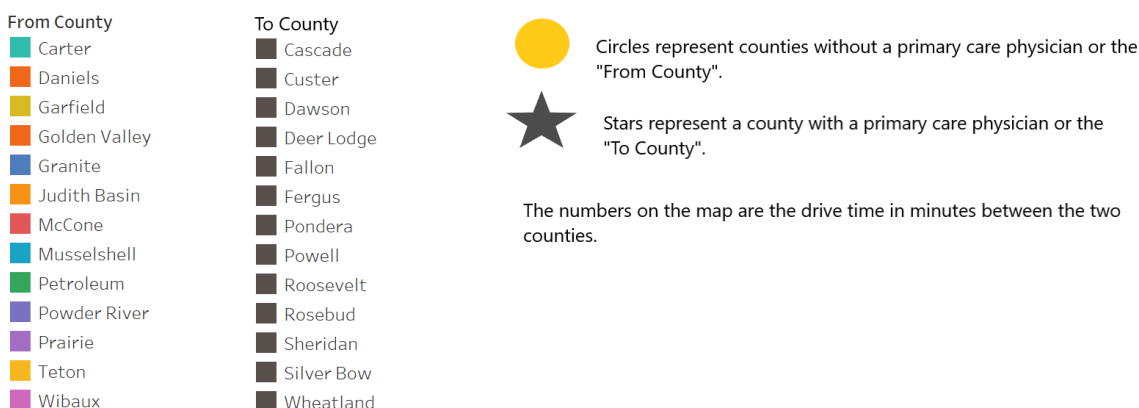
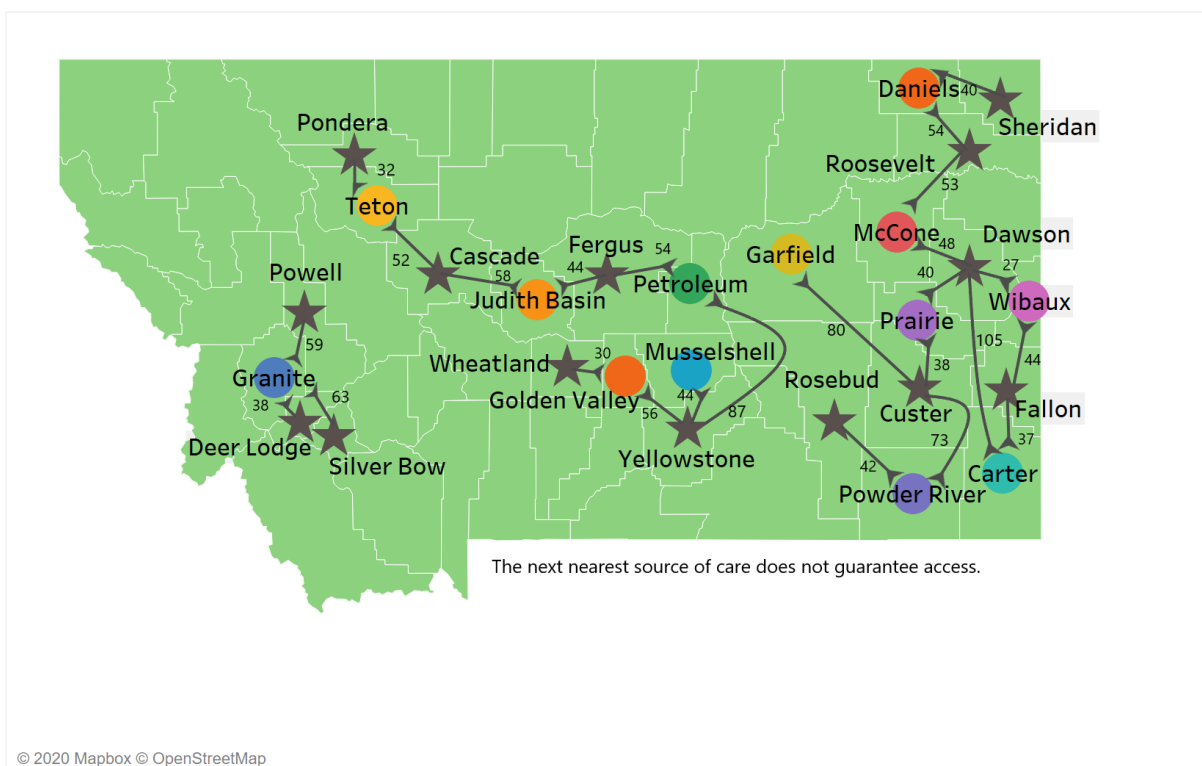
Map 4: Primary Care Physicians: Population to FTE Ratio



Data Source: Montana Primary Care Office data (2020) compiled and analyzed by WIM Tracking

**Does not include IHS or Tribal Health physicians (see page 13 for a report on American Indian Health).*

MAP 5: Counties without a Primary Care Physician: Drive Time (Minutes) From County Seat to Nearest Primary Care Physician



Data Source: Montana Primary Care Office data (2020) compiled and analyzed by WIM Tracking with use of Google Distance Matrix API

Map 5 represents the counties without a primary care physician (plotted with a circle) and the drive time to the three nearest primary care physicians (plotted with a line and star). The plotted lines represent the direct route or "as the crow flies". However, the drive time calculated does represent the drive time along the highway route between the two places.

Drive time was calculated in minutes using the Google Distance Matrix API. A matrix was created to obtain drive time from the county seat of the county without a physician to the address of every primary

care physician in Montana. The Google Distance Matrix API returned the routes with the shortest mileage and drive time. The three nearest locations in drive time are represented in the map. If the three closest physician addresses were in the same county, only one address is represented as a line on the map. See Table 2 for the summary data used in Map 5.

TABLE 2: Counties without a Primary Care Physician: Distance and Drive Time to Nearest Primary Care Physician

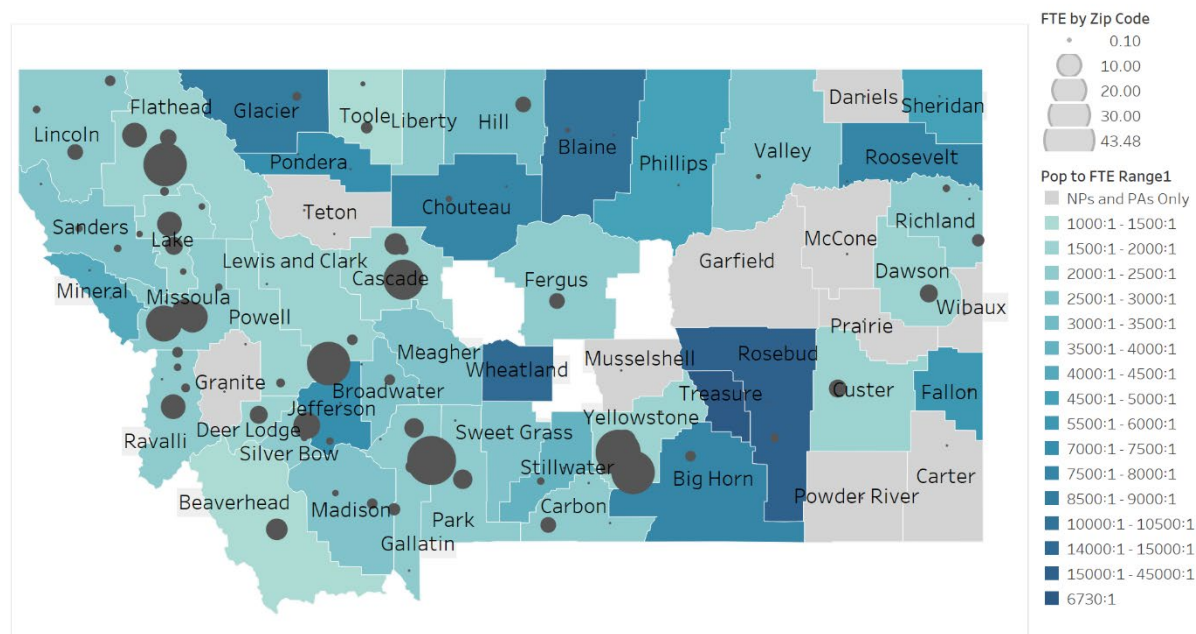
A From County	B From County Seat	C To County	D To Address	E Distance (miles)	F Drive Time (minutes)
Carter	Ekalaka, MT 59234	Fallon	202 S. 4th St. W. Baker MT 59313	36.873	36.8
Carter	Ekalaka, MT 59234	Dawson	311 N. Merrill Ave. Glendive MT 59330	109.601	105.2
Carter	Ekalaka, MT 59234	Dawson	107 Dilworth St. Glendive MT 59330	108.998	105.7
Daniels	Scobey, MT 59263	Sheridan	440 W. Laurel Ave. Plentywood MT 59254	41.467	40.4
Daniels	Scobey, MT 59263	Roosevelt	301 Knapp St. Wolf Point MT 59201	54.345	53.5
Daniels	Scobey, MT 59263	Roosevelt	818 2nd Ave. E. Culbertson MT 59218	88.46	85.4
Garfield	Jordan, MT 59337	Custer	2600 Wilson St. Miles City MT 59301	84.791	80.1
Garfield	Jordan, MT 59337	Custer	330 Roger Ln. Ste. 4 Miles City MT 59301	84.759	80.4
Garfield	Jordan, MT 59337	Custer	620 S. Haynes Ave. Miles City MT 59301	84.909	80.5
Golden Valley	Ryegate, MT 59074	Wheatland	530 3rd St. N.W. Harlowton MT 59036	30.068	29.5
Golden Valley	Ryegate, MT 59074	Yellowstone	3401 Ave. E. Billings MT 59102	58.523	56.4
Golden Valley	Ryegate, MT 59074	Yellowstone	2223 Mission Way Billings MT 59102	58.944	57.2
Granite	Phillipsburg, MT 59858	Deer Lodge	305 W. Pennsylvania Anaconda MT 59711	29.455	37.7
Granite	Phillipsburg, MT 59858	Powell	1100 Hollenback Ln. Deer Lodge MT 59722	57.056	59.2
Granite	Phillipsburg, MT 59858	Silver Bow	700 W. Gold Butte MT 59701	29.455	62.5
Judith Basin	Stanford, MT 59479	Fergus	408 Wendell Ave. Lewistown MT 59457	44.968	44.2
Judith Basin	Stanford, MT 59479	Fergus	406 1st Ave. S. Lewistown MT 59457	46.292	46.7
Judith Basin	Stanford, MT 59479	Cascade	1400 29th St. S. Great Falls MT 59405	58.35	57.6
McCone	Circle, MT 59215	Dawson	311 N. Merrill Ave. Glendive MT 59330	48.935	47.7

A From County	B From County Seat	C To County	D To Address	E Distance (miles)	F Drive Time (minutes)
McCone	Circle, MT 59215	Dawson	107 Dilworth St. Glendive MT 59330	50.69	48.9
McCone	Circle, MT 59215	Roosevelt	301 Knapp St. Wolf Point MT 59201	53.857	52.8
Musselshell	Roundup, MT 59072	Yellowstone	760 Wicks Ln. Billings MT 59105	45.74	44.3
Musselshell	Roundup, MT 59072	Yellowstone	32 Wicks Ln. Billings MT 59105	46.497	45.6
Musselshell	Roundup, MT 59072	Yellowstone	801 N. 29th St. Billings MT 59101	49.763	53.2
Petroleum	Winnett, MT 59087	Fergus	406 1st Ave. S. Lewistown MT 59457	53.864	53.6
Petroleum	Winnett, MT 59087	Fergus	408 Wendell Ave. Lewistown MT 59457	54.94	56.6
Petroleum	Winnett, MT 59087	Yellowstone	760 Wicks Ln. Billings MT 59105	90.484	87.3
Powder River	Broadus, MT 59317	Rosebud	501 Main St. Ashland MT 59330	44.027	41.6
Powder River	Broadus, MT 59317	Custer	620 S. Haynes Ave. Miles City MT 59301	77.701	72.8
Powder River	Broadus, MT 59317	Custer	2600 Wilson St. Miles City MT 59301	77.512	73.1
Prairie	Terry, MT 59349	Custer	2600 Wilson St. Miles City MT 59301	38.905	37.8
Prairie	Terry, MT 59349	Custer	620 S. Haynes Ave. Miles City MT 59301	39.094	38.7
Prairie	Terry, MT 59349	Dawson	311 N. Merrill Ave. Glendive MT 59330	38.565	39.4
Teton	Choteau, MT 59422	Pondera	1 4th Ave. S.E. Conrad MT 59425	31.403	31.8
Teton	Choteau, MT 59422	Pondera	805 Sunset Blvd. Conrad MT 59425	32.159	34.5
Teton	Choteau, MT 59422	Cascade	25 14th Ave. N.W. Great Falls MT 59404	51.645	52
Wibaux	Wibaux, MT 59353	Dawson	311 N. Merrill Ave. Glendive MT 59330	28.262	27.4
Wibaux	Wibaux, MT 59353	Dawson	107 Dilworth St. Glendive MT 59330	27.659	27.9
Wibaux	Wibaux, MT 59353	Fallon	202 S. 4th St. W. Baker MT 59313	44.993	44

Data Source: Montana Primary Care Office data (2020) compiled and analyzed by WIM Tracking with use of Google Distance Matrix API

MID LEVEL & SPECIALISTS

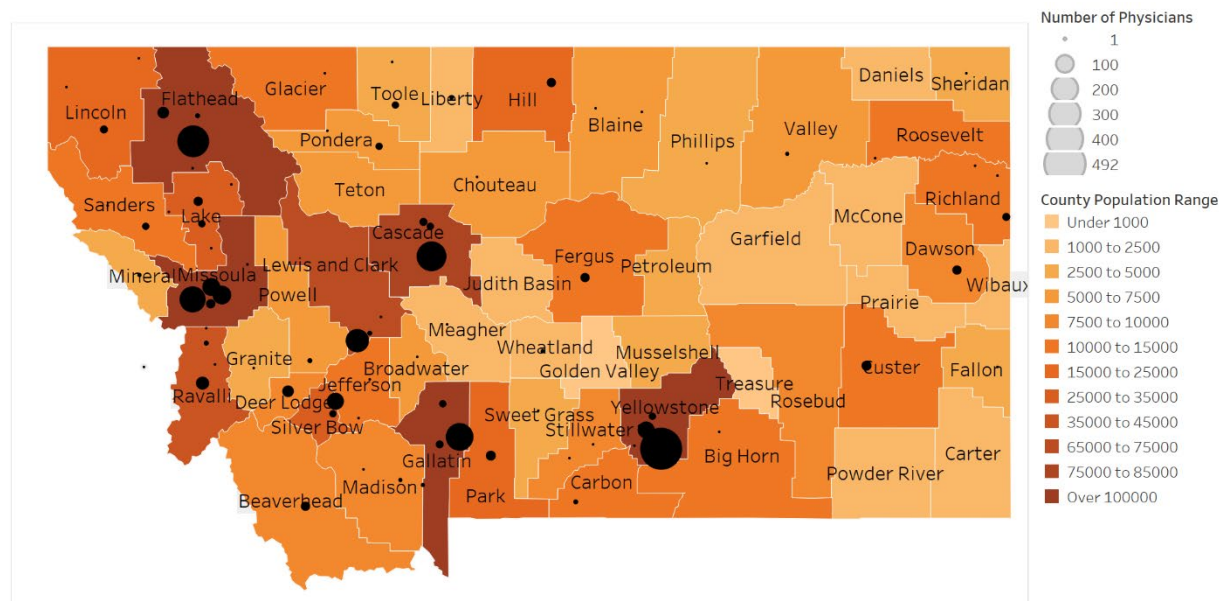
MAP 6: Primary Care Physicians, Physician Assistants and Nurse Practitioners



Data Source: Montana Primary Care Office data (2020) and WIM Tracking (2020)

*Does not include IHS or Tribal Health physicians (see page 13 for a report on American Indian Health).

MAP 7: Physicians (All Specialties) by County Population Range



Data Source: Montana Primary Care Office data (2020) and WIM Tracking (2020)

*Does not include IHS or Tribal Health physicians (see page 13 for a report on American Indian Health).

AMERICAN INDIAN HEALTH

TABLE 3: Indian Health Service Units and Tribal Health: American Indian / Alaska Native (AI/AN) Population to Primary Care Physician Ratio

County (Tribe) Location Type: Clinics	A Count	B Tour Hours	C FTE	D County Population Census July 2019 Estimates	E % Pop. AI/AN Census July 2019 Estimates	F AI/AN Pop. Census July 2019 Estimates	G AI/AN Pop. to FTE
Big Horn (Crow) IHS Unit: Crow/Northern Cheyenne Hospital, Lodge Grass Health Clinic, Pryor Health Station	9	340	8.5	13,365	66%	8,874	1044:1
Blaine (Fort Belknap) IHS Unit: Fort Belknap Hospital, Eagle Child Health Station	12	320	8	6,774	51%	3,428	428:1
Glacier (Blackfeet) IHS Unit: Blackfeet Community Hospital	14	540	13.5	13,828	65%	8,947	663:1
Hill (Chippewa Cree) Rocky Boy Tribal Health: Chippewa Cree Clinic	1	40	1	16,342	25%	4,086	4086:1
Lake (Salish and Kootenai) Flathead Tribal Health: Ronan Health Center, Elmo Health Center, St. Ignatius Health Center, Polson Health Center, Arlee Health Center, SKC Student Health (Pablo, MT)	2	80	2	30,220	25%	7,555	3777:1
Pondera (Blackfeet) IHS Unit: Heart Butte Health Station *Providers rotate out of Browning.	1	40	1	5,960	15%	894	894:1
Roosevelt (Fort Peck) IHS Unit: Chief Redstone Clinic, Verne E. Gibbs Clinic	6	240	6	11,069	61%	6,697	1116:1
Rosebud (Northern Cheyenne) IHS Unit: Northern Cheyenne Service Unit	1	20	0.5	9,040	40%	3,589	7178:1
Sanders (Salish and Kootenai) Flathead Tribal Health: Hot Springs Health Center *No physician	0	0	0	11,847	4%	474	--

Data Source: Montana Primary Care Office data (2020) and US Census Data (2019)

Table 3 includes the count of physicians reported by Indian Health Services and independently operated Tribal Clinics to the Montana Primary Care Office during the 2020 Healthcare Professionals Assessment data collection. The physicians were reported by IHS as being a full-time provider (40 tour hours per week) or a part time provider (20 hours per week). The tour hours and FTE are inclusive of all tour hours provided by the physician, not only primary care hours.

The Heart Butte Health Station utilizes primary care physicians that rotate from Browning. There is one primary care physician at the clinic every day of the week. At least three times per month there will be more than one primary clinic on site in Heart Butte.

Flathead Tribal Health has two physicians on staff, one of which rotates between multiple clinics in Lake County. The Tribe operates clinics in Ronan, Elmo and Hot Springs; however, physicians do not serve clients at these clinics. The primary care medical staff with Flathead Tribal Health also includes four nurse practitioners and two physician assistants.

American Indian / Alaska Native population estimates were extracted from the U.S. Census Bureau: Annual Estimates of Resident Population for Counties: April 1, 2010 to July 1, 2019.

TABLE 4: Urban Indian Health Centers Primary Care Providers (Physician Assistants and Nurse Practitioners)

County (Clinic)	A Count of Primary Care PAs and NPs	B County Population Census July 2019 Estimates	C % Population AI/AN Census July 2019 Estimates	D AI/AN Population Census July 2019 Estimates	E AI/AN Pop. to Provider
Cascade Indian Family Health Clinic	2	81,688	5%	4,084	2042:1
Lewis and Clark Helena Indian Alliance	3	68,622	2%	1,372	457:1
Missoula All Nations Health Center	1	118,640	3%	3,559	3559:1
Silver Bow North American Indian Alliance	1	34,739	2%	695	695:1
Yellowstone Billings Urban Indian Health and Wellness Center	2	160,029	5%	8,001	4000:1

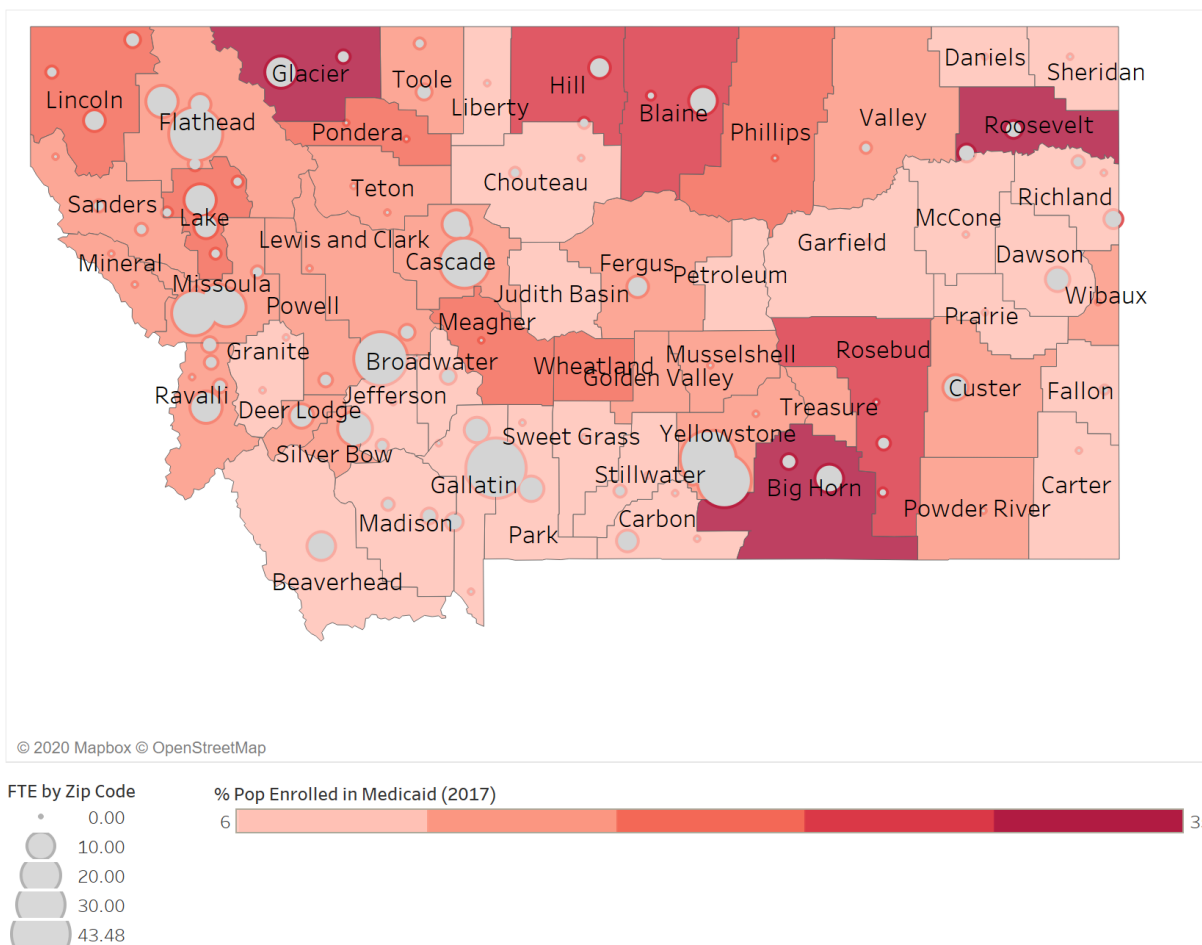
Data Source: WIM Tracking (2020) and US Census Data (2019)

The Urban Indian Health Centers reported no primary care physicians. Indian Family Health Clinic in Cascade County reported a primary care physician available through telemedicine.

Another American Indian population in Montana is the Little Shell Chippewa Tribe. The Little Shell Chippewa Tribe has members in Great Falls (Cascade county), Havre (Hill county), Lewistown (Fergus county), Helena (Lewis and Clark county), Butte (Silver Bow county), Chinook (Blaine county), Hays (Blaine county), Wolf Point (Roosevelt county), Hamilton (Ravalli county) and Billings (Yellowstone county). The tribe is headquartered in Great Falls and gained federal recognition in December 2019.

MEDICAID

MAP 8: Primary Care Provider Locations by Percentage of Population Enrolled in Medicaid (2017)



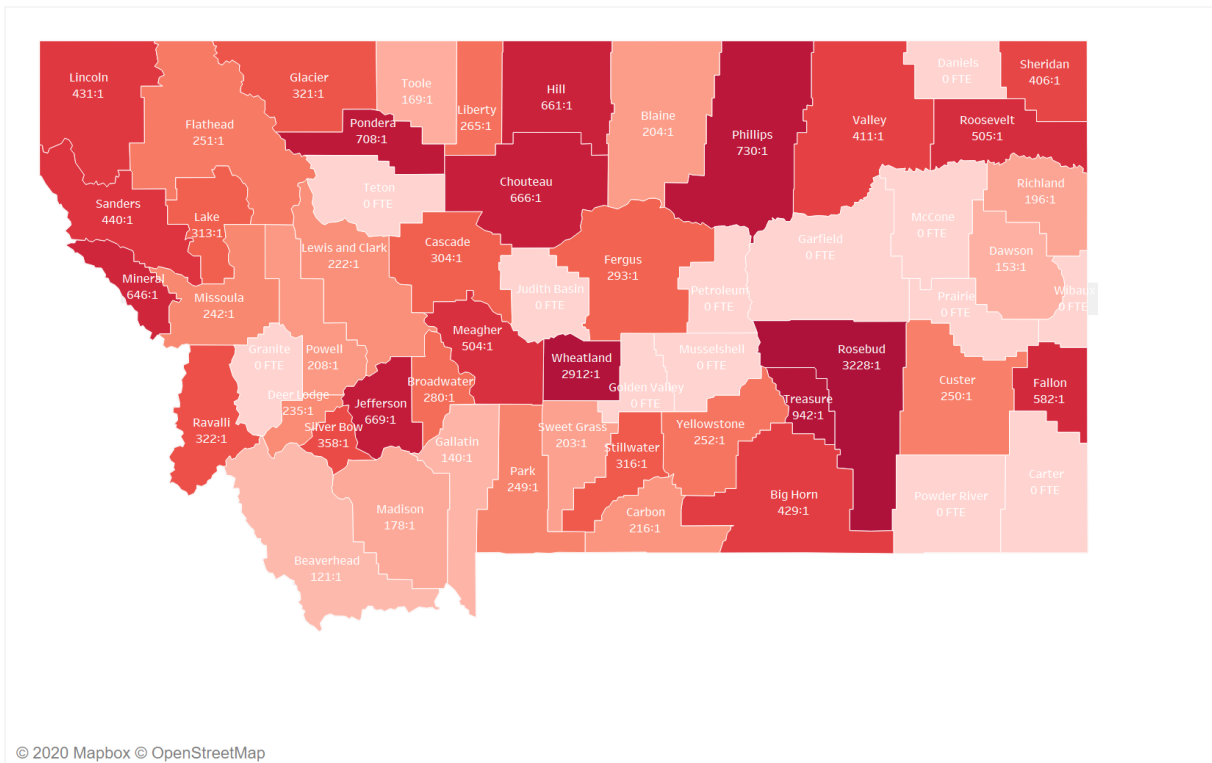
Data Source: Montana Primary Care Office data (2020) and Montana Medicaid Program (2017)

**Includes IHS and Tribal Health physicians*

The percentage of the population enrolled in Montana Medicaid (including HELP Plan known as Medicaid Expansion enacted in 2015) was extracted from the 2019 Montana Medicaid Report. The report was published by the Montana Department of Public Health and Human Services and is a report of Medicaid enrollee data from 2017. The report is available here:

<https://dphhs.mt.gov/Portals/85/Documents/biennialreports/MedicaidInMontana2019Report.pdf>

MAP 9: Medicaid Enrollees (2017) to Primary Care Physician FTE Ratio



Medicaid Pop to FTE Ratio

0 FTE	204:1	251:1	321:1	504:1	730:1
121:1	208:1	252:1	322:1	505:1	942:1
140:1	216:1	265:1	358:1	582:1	9912:1
153:1	222:1	280:1	406:1	646:1	3228:1
169:1	235:1	293:1	411:1	661:1	
178:1	242:1	304:1	429:1	666:1	
196:1	249:1	313:1	431:1	669:1	
203:1	250:1	316:1	440:1	708:1	

Data Source: Montana Primary Care Office data (2020) and Montana Medicaid Program (2017)

**Includes IHS and Tribal Health physicians*

The Medicaid population was calculated by multiplying the percentage of the county population enrolled in Medicaid (2017 Medicaid enrollee data) to the county population estimates (US Census 2019). The Medicaid population derived from this calculation was then divided by the total physician FTE count per county. Total physician FTE count includes all public access primary care physicians and IHS and Tribal Health physicians.

Wheatland County has .2 FTE and 20% of the population was enrolled in Medicaid in 2017.

Rosebud County has .5 FTE with IHS and .2 FTE other. 40% of the population is estimated to be American Indian and 25% of the total population was enrolled in Medicaid in 2017.



About WIM Tracking LLC

WIM Tracking LLC (WIM) is an independent health workforce research and data services company. WIM supports organizations in health workforce assessment building, surveying, reporting, geographical mapping, and data collection.

WIM Tracking's mission is to make health workforce data useful and accessible. WIM is the developer of comprehensive data sets that are used to power a variety of online resources. These data sets are created and maintained through a comprehensive tracking routine and managed within a relational database. www.wimtracking.com



WIM is the creator of The Bright App, an online behavioral healthcare directory. The Bright App includes practice information on LCPCs, LCSWs, Psychologists, Psychiatrists, Mental Health Nurse Practitioners and LACs across Montana. The Bright App is available, at no cost, to any organization across the state to stream the directory live on their website. The directory is currently available on websites including Montana 211, The Bozeman Help Center and Montana Access to Pediatric Psychiatry Network (MAPP-Net). www.thebrightapp.org

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