

Report on Racial Bloc Voting Analysis for the State of Montana

Prepared for:

The Montana Districting and Apportionment Commission

Outline

Introduction

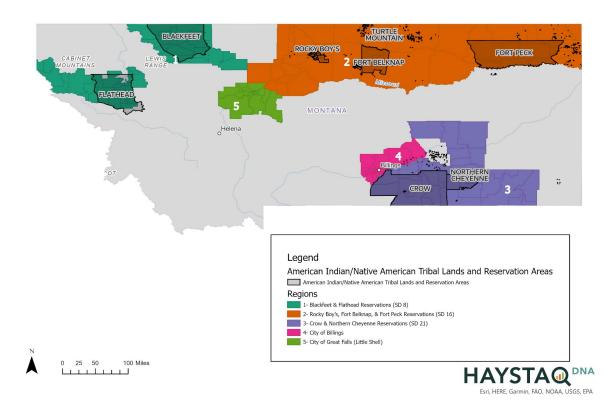
Data

Methodologies

Results by Region

Introduction

- Racial Bloc Voting
- Five Regions
- Elections:
 - 2014 U.S. Senate
 - 2016 President
 - o 2016 Congressional
 - o 2016 Governor
 - 2016 Attorney General
 - o 2018 U.S. Senate
 - o 2020 President
 - o 2020 U.S. Senate
 - 2020 Attorney General
 - 2020 Auditor



Data

- Precinct-Level Election Results
- Voting Precinct Shapefiles
- Citizen Voting Age Population (CVAP) from American Community Survey (ACS) 5-Year Estimates
 - American Indian Alone
 - American Indian Any

Methodologies

- Homogeneous Precinct Analysis
- Bivariate Regression Analysis
- Ecological Inference Analysis

Homogeneous Precinct Analysis

Overall

~	G16 Tim Fox	G16 Larry Jent
American Indian		
CVAP	14.60%	85.40%
White CVAP	78.80%	21.20%

Attorney General, General Election 2016 American Indian Results

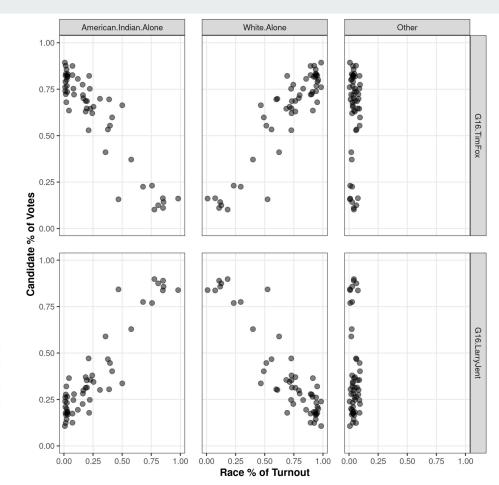
Region	County	Precinct	% American Indian Any CVAP 2016	% White Alone CVAP 2016	% G16 TimFox	% G16 LarryJent
	1 Glacier	PCT 12	90.60%	11.20%	11.10%	88.90%
	1 Glacier	PCT 13	97.00%	7.90%	16.30%	83.70%
	1 Glacier	PCT 21C	99.70%	0.90%	16.10%	83.90%
		TOTAL	96.20%	6.00%	14.60%	85.40%

Attorney General, General Election 2016 White Results

				% American Indian Any CVAP	% White Alone		
Region		County	Precinct	2016	CVAP 2016	% G16 TimFox	% G16 LarryJent
	1	Glacier	PCT 06	4.20%	95.50%	83.10%	16.90%
	1	Lake	BEA 1 HD10	2.20%	95.30%	68.00%	32.00%
	1	Lake	BEA 2 HD12	2.60%	92.90%	72.30%	27.70%
	1	Lake	FER 1 HD10	5.20%	93.20%	73.50%	26.50%
	1	Lake	POL 3 HD12	6.60%	92.70%	63.50%	36.50%
	1	Lake	SWA 1 HD10	3.10%	93.80%	87.60%	12.40%
	1	Lake	SWA 2 HD15	2.30%	95.20%	73.90%	26.10%
	1	Lake	POL 2 HD12	9.70%	90.40%	72.10%	27.90%
	1	Pondera	BRADY_19	1.10%	98.90%	76.10%	23.90%
	1	Pondera	CONRAD RURAL 29	0.90%	98.70%	89.30%	10.70%
	1	Pondera	CONRAD_24	2.60%	96.10%	80.00%	20.00%
	1	Pondera	CONRAD_27	3.60%	93.90%	81.60%	18.40%
	1	Pondera	DUPUYER_23	8.40%	91.10%	87.50%	12.50%
	1	Pondera	VALIER_34	8.50%	91.00%	82.60%	17.40%
	1	Sanders	5-T FALLS-HD13	2.10%	95.90%	82.30%	17.70%
	1	Sanders	1-HERON-HD13	4.70%	96.60%	76.80%	23.20%
	1	Sanders	2-NOXON-HD13	2.30%	96.70%	79.00%	21.00%
	1	Sanders	3-TROUT CREEK-HD13	3.10%	95.00%	83.30%	16.70%
	1	Sanders	4-T Falls-HD13	4.80%	94.10%	81.70%	18.30%
	1	Sanders	6-PLAINS-HD14	2.70%	94.60%	85.60%	14.40%
	1	Sanders	7-PLAINS-HD14	3.30%	94.90%	82.50%	17.50%
			TOTAL	3.90%	94.60%	78.80%	21.20%

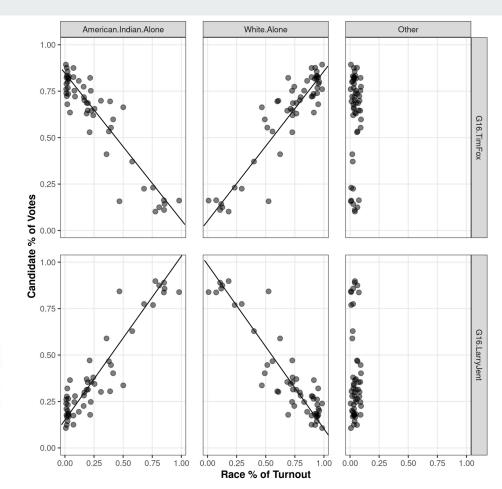
Bivariate Regression Analysis

	American.Indian.Alone	White.Alone	Other
G16.TimFox	-0.9265	0.9173	0.1104
G16.LarryJent	0.9265	-0.9173	-0.1104



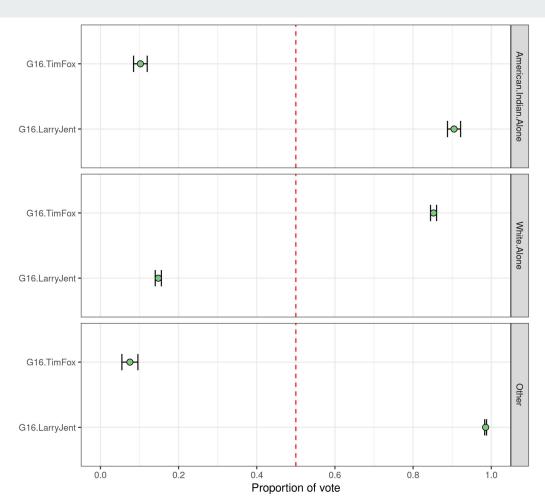
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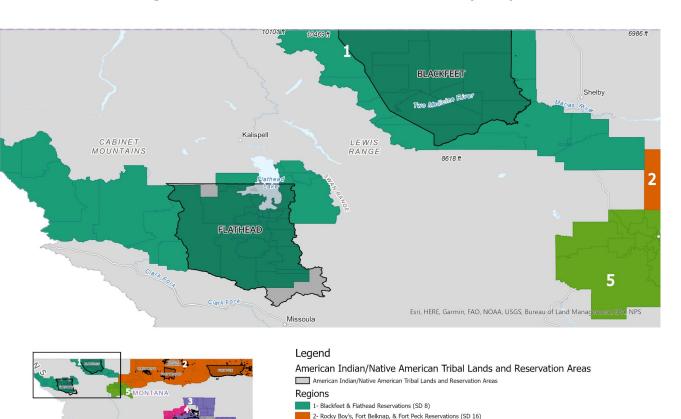
Ecological Inference Analysis

	cand	race	mean
1	G16.TimFox	American.Indian.Alone	0.10224444
2	G16.TimFox	White.Alone	0.85233030
3	G16.TimFox	Other	0.07539899
4	G16.LarryJent	American.Indian.Alone	0.90475253
5	G16.LarryJent	White.Alone	0.14805455
6	G16.LarryJent	Other	0.98555960



Results by Region

Region 1: Blackfeet & Flathead Reservations (SD 8)



Crow & Northern Chevenne Reservations (SD 21)

5- City of Great Falls (Little Shell)

HAYSTA Q DNA

All precincts in Glacier, Pondera, Lake, and Sanders counties

Total CVAP: 47,434

Al Alone CVAP: 12,693 (26.76%) Al Any CVAP: 14,021 (29.57%)

2014 U.S. Senate, General Election 2016 President, General Election 2016 Congressional, General Election 2016 Attorney General, General Election 2016 Governor, General Election 2018 U.S. Senate, General Election 2020 President, General Election 2020 U.S. Senate, General Election 2020 Attorney General, General Election 2020 Auditor, General Election

Homogeneous Precinct Analysis

US Senate, General Election 2014 American Indian Results

Region	County	Precinct	% American Indian Any CVAP 2014	% American Indian Alone CVAP 2014	% White Alone CVAP 2014	% G14 Amanda Curtis	% G14 SteveDaines	% G14 RogerRoots
	1 Glacier	PCT 12	92.78%	90.98%	7.37%	89.13%	9.42%	1.45%
	1 Glacier	PCT 13	97.49%	90.93%	7.51%	88.89%	9.52%	1.59%
	1 Glacier	PCT 21C	99.34%	98.77%	0.46%	81.25%	17.71%	1.04%
	1 Pondera	HEART BUTTE_20	90.25%	87.55%	12.26%	87.90%	10.48%	1.61%
		TOTAL	95.60%	93.22%	5.83%	87.19%	11.36%	1.45%

US Senate, General Election 2014 White Results

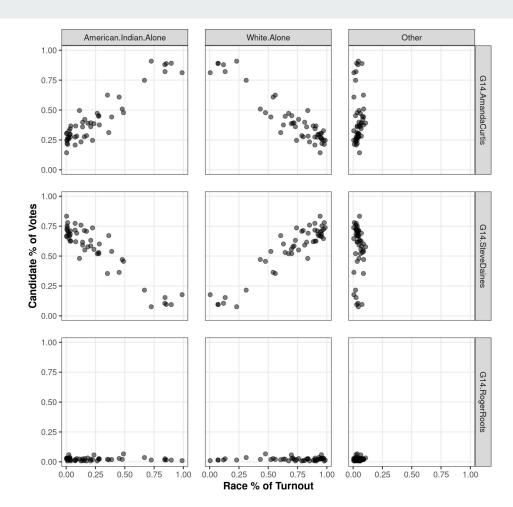
1 Lake BEA 1 HD10 6.67% 4.01% 92.58% 36.68% 62.53% 0.79% 1 Lake BEA 2 HD12 6.36% 3.45% 92.59% 34.38% 62.50% 3.13% 1 Lake FER 1 HD10 0.78% 0.45% 94.95% 30.30% 66.93% 2.77% 1 Sanders 2-NOXON-HD13 3.30% 2.22% 95.58% 25.74% 68.32% 5.94% 1 Sanders 3-TROUT CREEK-HI 1.17% 0.95% 98.66% 24.70% 73.80% 1.50% 1 Sanders 4-T Falls-HD13 3.42% 1.95% 95.53% 27.07% 70.30% 2.63% 1 Sanders 6-PLAINS-HD14 1.24% 0.76% 96.40% 21.99% 75.24% 2.77% 1 Sanders 7-PLAINS-HD14 1.60% 1.10% 96.44% 26.29% 71.05% 2.67% 1 Lake POL 2 HD12 10.50% 8.30% 90.39% 36.70% 61.99% 1.31% 1 Glacier PCT 06 7.19% 6.42% 92.49% 22.58% 77.42% 0.00% 1 Lake SWA 2 HD15 0.62% 0.38% 95.59% 30.53% 66.32% 3.16% 1 Pondera BRADY_19 2.43% 2.38% 97.50% 32.65% 64.60% 2.75% 1 Pondera CONRAD RURAL 25 1.29% 1.24% 97.98% 21.32% 77.94% 0.74%					% American Indian Any CVAP	% American Indian Alone	% White Alone	% G14 Amanda	% G14	% G14
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1 Lake POL 2 HD12 10.50% 8.30% 90.39% 36.70% 61.99% 1.31% 1 Glacier PCT 06 7.19% 6.42% 92.49% 22.58% 77.42% 0.00% 1 Lake SWA 2 HD15 0.62% 0.38% 95.59% 30.53% 66.32% 3.16% 1 Pondera BRADY_19 2.43% 2.38% 97.50% 32.65% 64.60% 2.75% 1 Pondera CONRAD RURAL 2! 1.29% 1.24% 97.98% 21.32% 77.94% 0.74% 38% 1 Pondera CONRAD_24 4.19% 3.51% 92.96% 29.74% 68.28% 1.98% 1 Pondera CONRAD_27 4.95% 3.63% 93.24% 27.37% 71.12% 1.51% 1 Pondera DUPUYER_23 9.70% 7.76% 91.76% 20.75% 77.36% 1.89% 1 Pondera VALIER_34 9.71% 7.77% 91.75% 27.43% 71.68% 0.88% 1 Sanders 1-HERON-HD13 5.29% 3.00% 94.42% 29.39% 66.94% 3.67% 1 Lake SWA 1 HD10 0.64% 0.32% 94.40% 14.29% 83.33% 2.38%			1 Sanders	6-PLAINS-HD14	1.24%	0.76%	96.40%	21.99%	75.24%	2.77%
1 Glacier PCT 06 7.19% 6.42% 92.49% 22.58% 77.42% 0.00% 1 Lake SWA 2 HD15 0.62% 0.38% 95.59% 30.53% 66.32% 3.16% 1 Pondera BRADY_19 2.43% 2.38% 97.50% 32.65% 64.60% 2.75% 1 Pondera CONRAD RURAL 2! 1.29% 1.24% 97.98% 21.32% 77.94% 0.74% 3% 1 Pondera CONRAD_24 4.19% 3.51% 92.96% 29.74% 68.28% 1.98% 1 Pondera CONRAD_27 4.95% 3.63% 93.24% 27.37% 71.12% 1.51% 1 Pondera DUPUYER_23 9.70% 7.76% 91.76% 20.75% 77.36% 1.89% 1 Pondera VALIER_34 9.71% 7.77% 91.75% 27.43% 71.68% 0.88% 1 Sanders 1-HERON-HD13 5.29% 3.00% 94.42% 29.39% 66.94% 3.67% 1 Lake SWA 1 HD10 0.64% 0.32% 94.40% 14.29% 83.33% 2.38%			1 Sanders	7-PLAINS-HD14	1.60%	1.10%	96.44%	26.29%	71.05%	2.67%
1 Lake SWA 2 HD15 0.62% 0.38% 95.59% 30.53% 66.32% 3.16% 1 Pondera BRADY_19 2.43% 2.38% 97.50% 32.65% 64.60% 2.75% 1 Pondera CONRAD RURAL 2! 1.29% 1.24% 97.98% 21.32% 77.94% 0.74% 3% 1 Pondera CONRAD_24 4.19% 3.51% 92.96% 29.74% 68.28% 1.98% 1 Pondera CONRAD_27 4.95% 3.63% 93.24% 27.37% 71.12% 1.51% 1 Pondera DUPUYER_23 9.70% 7.76% 91.76% 20.75% 77.36% 1.89% 1 Pondera VALIER_34 9.71% 7.77% 91.75% 27.43% 71.68% 0.88% 1 Sanders 1-HERON-HD13 5.29% 3.00% 94.42% 29.39% 66.94% 3.67% 1 Lake SWA 1 HD10 0.64% 0.32% 94.40% 14.29% 83.33% 2.38%			1 Lake	POL 2 HD12	10.50%	8.30%	90.39%	36.70%	61.99%	1.31%
1 Lake SWA 2 HD15 0.62% 0.38% 95.59% 30.53% 66.32% 3.16% 1 Pondera BRADY_19 2.43% 2.38% 97.50% 32.65% 64.60% 2.75% 1 Pondera CONRAD RURAL 2! 1.29% 1.24% 97.98% 21.32% 77.94% 0.74% 33% 1 Pondera CONRAD_24 4.19% 3.51% 92.96% 29.74% 68.28% 1.98% 1 Pondera CONRAD_27 4.95% 3.63% 93.24% 27.37% 71.12% 1.51% 1 Pondera DUPUYER_23 9.70% 7.76% 91.76% 20.75% 77.36% 1.89% 1 Pondera VALIER_34 9.71% 7.77% 91.75% 27.43% 71.68% 0.88% 1 Sanders 1-HERON-HD13 5.29% 3.00% 94.42% 29.39% 66.94% 3.67% 1 Lake SWA 1 HD10 0.64% 0.32% 94.40% 14.29% 83.33% 2.38%	_		1 Glacier	PCT 06	7.19%	6.42%	92.49%	22.58%	77.42%	0.00%
5% 1 Pondera CONRAD RURAL 2! 1.29% 1.24% 97.98% 21.32% 77.94% 0.74% 3% 1 Pondera CONRAD_24 4.19% 3.51% 92.96% 29.74% 68.28% 1.98% 1 Pondera CONRAD_27 4.95% 3.63% 93.24% 27.37% 71.12% 1.51% 1 Pondera DUPUYER_23 9.70% 7.76% 91.76% 20.75% 77.36% 1.89% 1 Pondera VALIER_34 9.71% 7.77% 91.75% 27.43% 71.68% 0.88% 1 Sanders 1-HERON-HD13 5.29% 3.00% 94.42% 29.39% 66.94% 3.67% 1 Lake SWA 1 HD10 0.64% 0.32% 94.40% 14.29% 83.33% 2.38%	.5		1 Lake	SWA 2 HD15	0.62%	0.38%	95.59%	30.53%	66.32%	3.16%
1 Pondera CONRAD_24 4.19% 3.51% 92.96% 29.74% 68.28% 1.98% 1 Pondera CONRAD_27 4.95% 3.63% 93.24% 27.37% 71.12% 1.51% 1 Pondera DUPUYER_23 9.70% 7.76% 91.76% 20.75% 77.36% 1.89% 1 Pondera VALIER_34 9.71% 7.77% 91.75% 27.43% 71.68% 0.88% 1 Sanders 1-HERON-HD13 5.29% 3.00% 94.42% 29.39% 66.94% 3.67% 1 Lake SWA 1 HD10 0.64% 0.32% 94.40% 14.29% 83.33% 2.38%			1 Pondera	BRADY_19	2.43%	2.38%	97.50%	32.65%	64.60%	2.75%
1 Pondera CONRAD_27 4.95% 3.63% 93.24% 27.37% 71.12% 1.51% 1 Pondera DUPUYER_23 9.70% 7.76% 91.76% 20.75% 77.36% 1.89% 1 Pondera VALIER_34 9.71% 7.77% 91.75% 27.43% 71.68% 0.88% 1 Sanders 1-HERON-HD13 5.29% 3.00% 94.42% 29.39% 66.94% 3.67% 1 Lake SWA 1 HD10 0.64% 0.32% 94.40% 14.29% 83.33% 2.38%	5%		1 Pondera	CONRAD RURAL 25	1.29%	1.24%	97.98%	21.32%	77.94%	0.74%
1 Pondera DUPUYER_23 9.70% 7.76% 91.76% 20.75% 77.36% 1.89% 1 Pondera VALIER_34 9.71% 7.77% 91.75% 27.43% 71.68% 0.88% 1 Sanders 1-HERON-HD13 5.29% 3.00% 94.42% 29.39% 66.94% 3.67% 1 Lake SWA 1 HD10 0.64% 0.32% 94.40% 14.29% 83.33% 2.38%	3%		1 Pondera	CONRAD_24	4.19%	3.51%	92.96%	29.74%	68.28%	1.98%
1 Pondera VALIER_34 9.71% 7.77% 91.75% 27.43% 71.68% 0.88% 1 Sanders 1-HERON-HD13 5.29% 3.00% 94.42% 29.39% 66.94% 3.67% 1 Lake SWA 1 HD10 0.64% 0.32% 94.40% 14.29% 83.33% 2.38%			1 Pondera	CONRAD_27	4.95%	3.63%	93.24%	27.37%	71.12%	1.51%
1 Sanders 1-HERON-HD13 5.29% 3.00% 94.42% 29.39% 66.94% 3.67% 1 Lake SWA 1 HD10 0.64% 0.32% 94.40% 14.29% 83.33% 2.38%			1 Pondera	DUPUYER_23	9.70%	7.76%	91.76%	20.75%	77.36%	1.89%
1 Lake SWA 1 HD10 0.64% 0.32% 94.40% 14.29% 83.33% 2.38%			1 Pondera	VALIER_34	9.71%	7.77%	91.75%	27.43%	71.68%	0.88%
			1 Sanders	1-HERON-HD13	5.29%	3.00%	94.42%	29.39%	66.94%	3.67%
TOTAL 3.43% 2.46% 95.14% 27.92% 69.75% 2.33%			1 Lake	SWA 1 HD10	0.64%	0.32%	94.40%	14.29%	83.33%	2.38%
				TOTAL	3.43%	2.46%	95.14%	27.92%	69.75%	2.33%

Overall

	G14 AmandaCurtis	G14 SteveDaines	G14 RogerRoots
American Indian			
CVAP	87.20%	11.40%	1.459
White CVAP	27.90%	69.80%	2.339

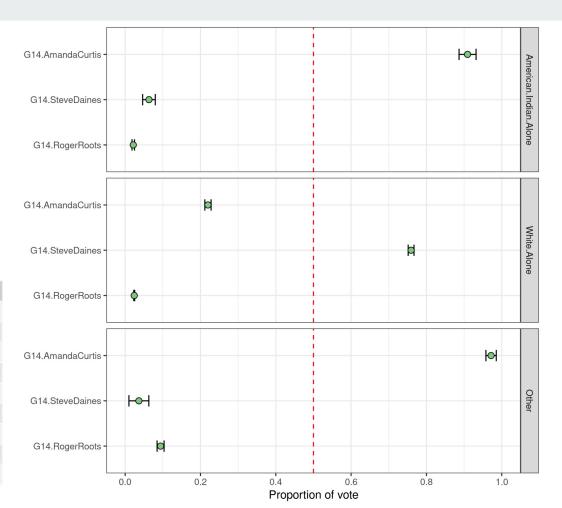
Bivariate Regression Analysis

	American.Indian.Alone	White.Alone	Other
G14.AmandaCurtis	0.93089	-0.93183	0.05778
G14.SteveDaines	-0.92814	0.92930	-0.06008
G14.RogerRoots	-0.07291	0.06942	0.03503

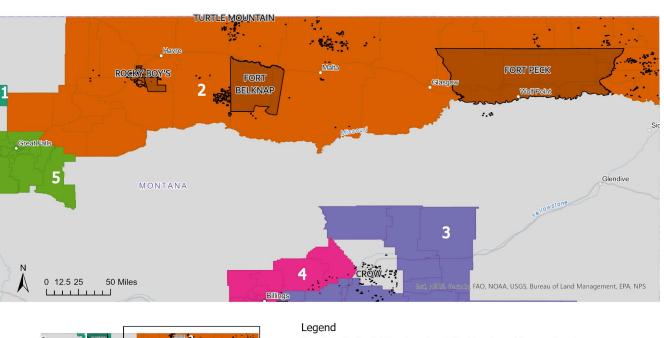


Ecological Inference Analysis

	cand	race	mean
1	G14.AmandaCurtis	American.Indian.Alone	0.90919192
2	G14.AmandaCurtis	White.Alone	0.21984646
3	G14.AmandaCurtis	Other	0.97164747
4	G14.SteveDaines	American.Indian.Alone	0.06313939
5	G14.SteveDaines	White.Alone	0.75923535
6	G14.SteveDaines	Other	0.03637475
7	G14.RogerRoots	American.Indian.Alone	0.02145051
8	G14.RogerRoots	White.Alone	0.02401919
9	G14.RogerRoots	Other	0.09402828



Region 2: Rocky Boy's, Fort Belknap, & Fort Peck Reservations (SD 16)





American Indian/Native American Tribal Lands and Reservation Areas

American Indian/Native American Tribal Lands and Reservation Areas

Regions

1- Blackfeet & Flathead Reservations (SD 8)

2- Rocky Boy's, Fort Belknap, & Fort Peck Reservations (SD 16)

3- Crow & Northern Cheyenne Reservations (SD 21)

4- City of Billings

5- City of Great Falls (Little Shell)



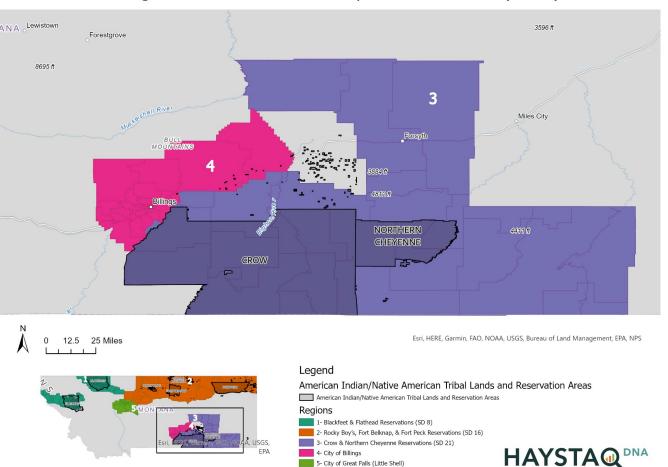
All precincts in Hill, Chouteau, Blaine, Phillips, Roosevelt, Valley, Daniels, and Sheridan counties

Total CVAP: 40,957

Al Alone CVAP: 10,590 (25.9%) Al Any CVAP: 11,581 (28.3%)

2014 U.S. Senate, General Election 2016 President, General Election 2016 Congressional, General Election 2016 Governor, General Election 2016 Attorney General, General Election 2018 U.S. Senate, General Election 2020 President, General Election 2020 U.S. Senate, General Election 2020 Attorney General, General Election 2020 Auditor, General Election 2020 Auditor, Democratic Primary

Region 3: Crow & Northern Cheyenne Reservations (SD 21)

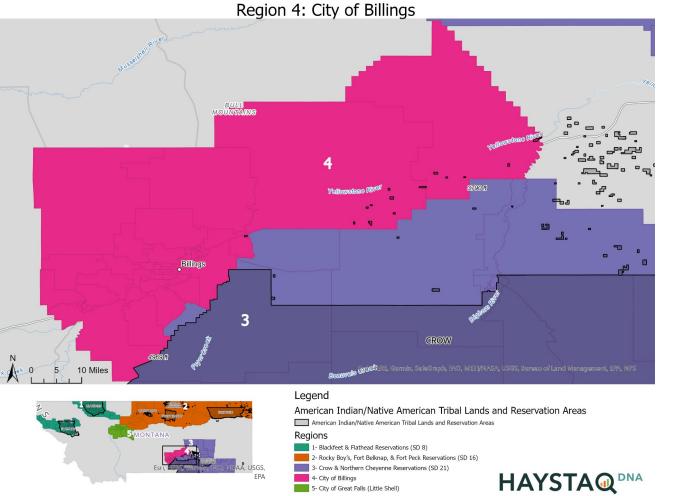


All precincts in Big Horn, Rosebud, and Powder River Counties. Also Yellowstone County Precincts 42.1 and 42.2

Total CVAP: 17,532

AI Alone CVAP: 7,615 (43.4%) AI Any CVAP: 8,016 (45.7%)

2014 U.S. Senate, General Election 2016 President, General Election 2016 Congressional, General Election 2016 Attorney General, General Election 2016 Governor, General Election 2018 U.S. Senate, General Election 2020 President, General Election 2020 U.S. Senate, General Election 2020 Attorney General, General Election 2020 Auditor, General Election

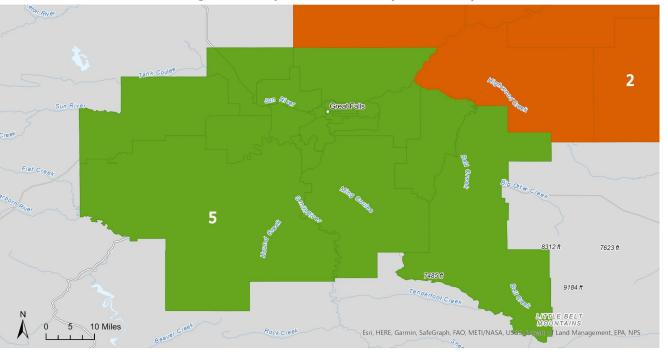


All precincts in Yellowstone County, except for precincts 42.1 and 42.2

Total CVAP: 121,688 Al Alone CVAP: 5,484 (4.5%) Al Any CVAP: 7,351 (6%)

2014 U.S. Senate, General Election 2016 President, General Election 2016 Congressional, General Election 2016 Governor, General Election 2016 Attorney General, General Election 2018 U.S. Senate, General Election 2020 President, General Election 2020 U.S. Senate, General Election 2020 Attorney General, General Election 2020 Auditor, General Election 2014 U.S. Senate, Democratic Primary 2016 President, Democratic Primary 2016 Governor, Republican Primary 2018 U.S. Senate, Republican Primary 2020 President, Democratic Primary 2020 Attorney General, Dem Primary 2020 Attorney General, GOP Primary 2020 Auditor, Democratic Primary

Region 5: City of Great Falls (Little Shell)





Legend

American Indian/Native American Tribal Lands and Reservation Areas

American Indian/Native American Tribal Lands and Reservation Areas

Regions

1- Blackfeet & Flathead Reservations (SD 8)

2- Rocky Boy's, Fort Belknap, & Fort Peck Reservations (SD 16)

3- Crow & Northern Cheyenne Reservations (SD 21)

4- City of Billings

5- City of Great Falls (Little Shell)



All precincts in Cascade county

Total CVAP: 63.032

AI Alone CVAP: 3,434 (5.5%) AI Any CVAP: 4,697 (7.5%)

2014 U.S. Senate, General Election 2016 President, General Election 2016 Congressional, General Election 2016 Attorney General, General Election 2018 U.S. Senate, General Election 2020 President, General Election 2020 U.S. Senate, General Election 2020 Attorney General, General Election 2020 Attorney General, Dem Primary 2020 Auditor, General Election 2020 Auditor, Democratic Primary

Questions