

North Dakota's Oil Boom and its Effect on North Dakota Politics

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North Dakota will soon produce the
second most oil of any U.S. state

Gunderson, *MPR News*




What does this mean for North Dakota politics?



- Disrupts social structure and patterns
Smith 2001, *Rural Sociology*
- Behavioral expectations and social organizations are disrupted by heterogeneity moving into a once homogeneous community
Gilmore 1975, *A Challenge of Growth Management*

Gillette Syndrome

- Crime
 - Fairbanks, Alaska (total crime) +394%
 - Rock Springs, Wyoming (calls) + 28,000
 - The Williston (ND) Police Department is getting more calls now in a month than it used to in a year” *CBS Minnesota, 2012*
 - Health
 - Rock Springs, Wyoming (health center caseload) +857%
 - Platte, Wyoming (mental health caseload) +198%
 - Housing
 - Supply and Demand \$\$\$\$\$\$\$
 - Senior citizens that are on fixed incomes went from paying \$300 a month to \$3,000”
Gunderson 2012, Gunderson 2012, MPR News
 - Education
 - Schools outgrow their capacity
 - Building being converted into temporary schools
- 



Hypothesis

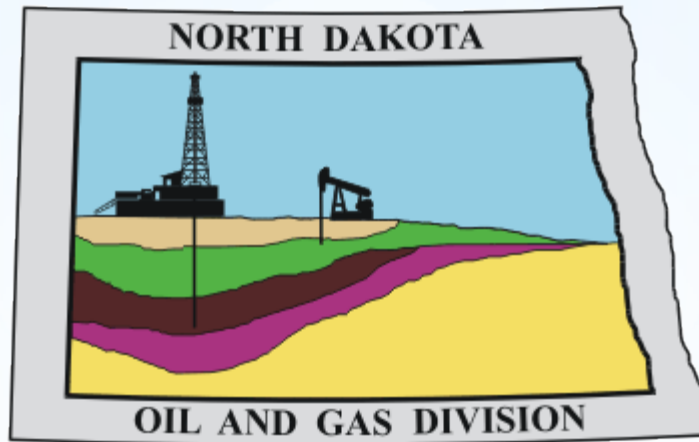
As oil production increases, North Dakota counties will become more Democratic



Data Sources



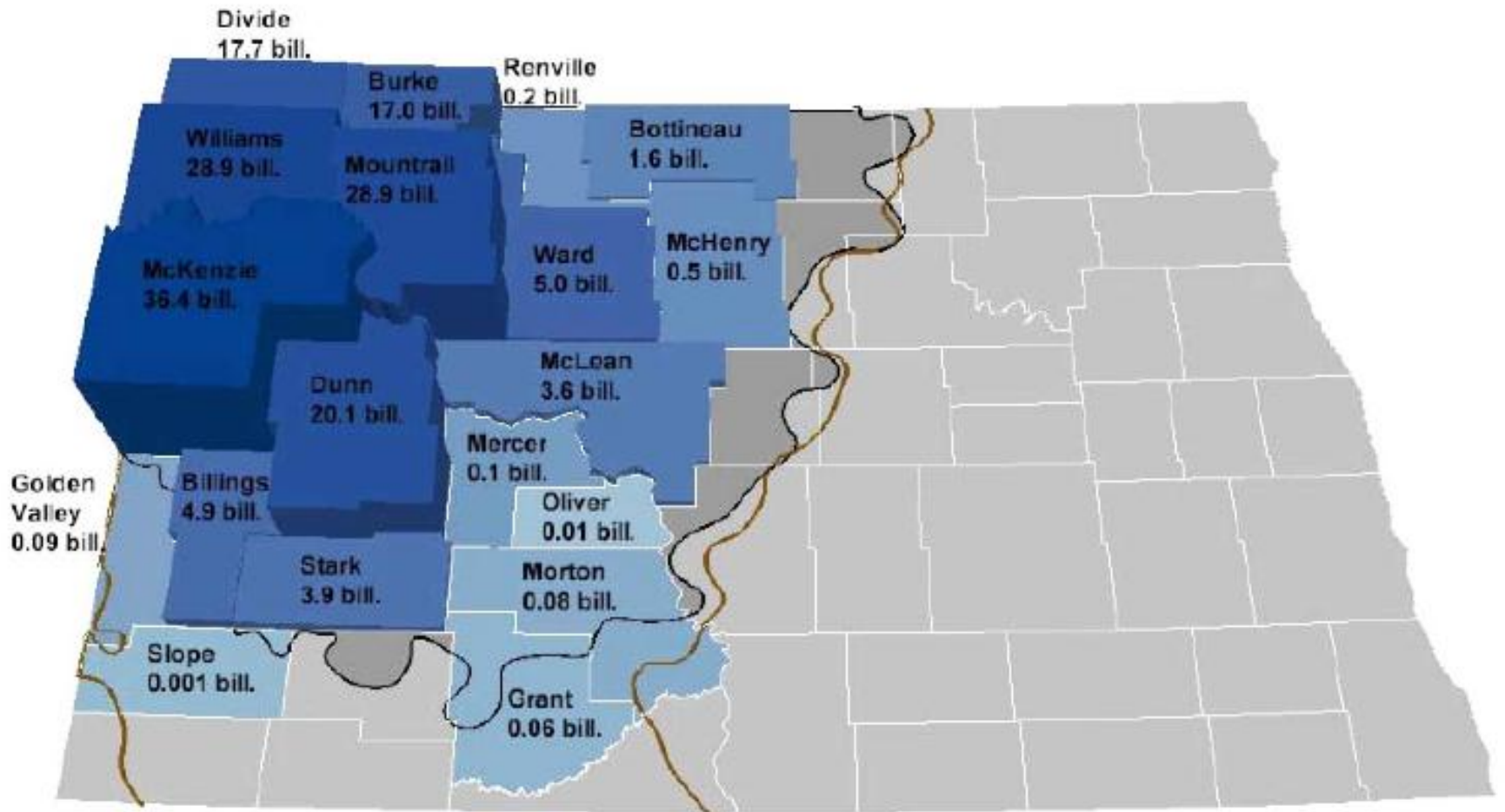
U.S. Census



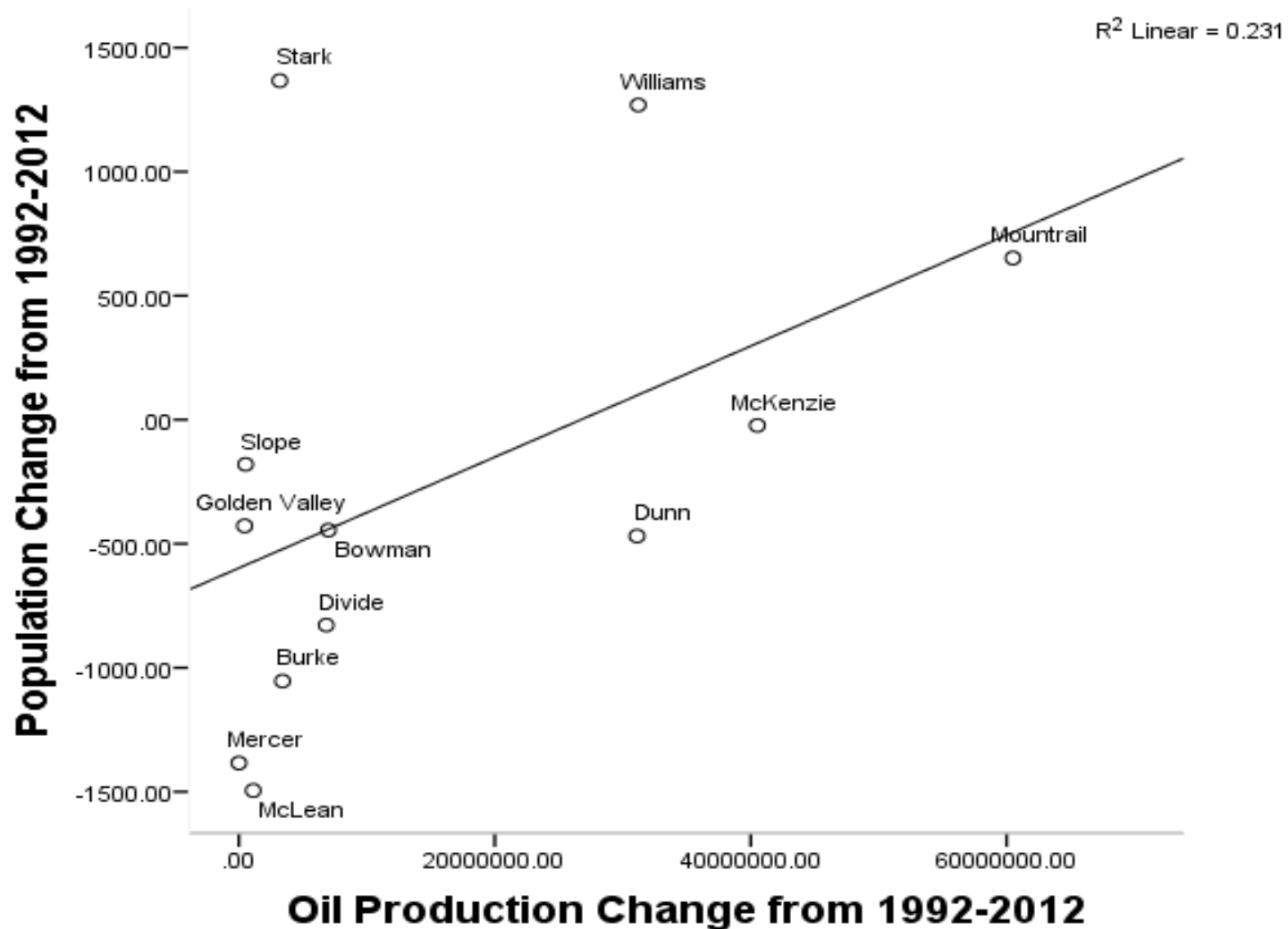
ND Dept. of Natural Resources
Oil and Gas Division



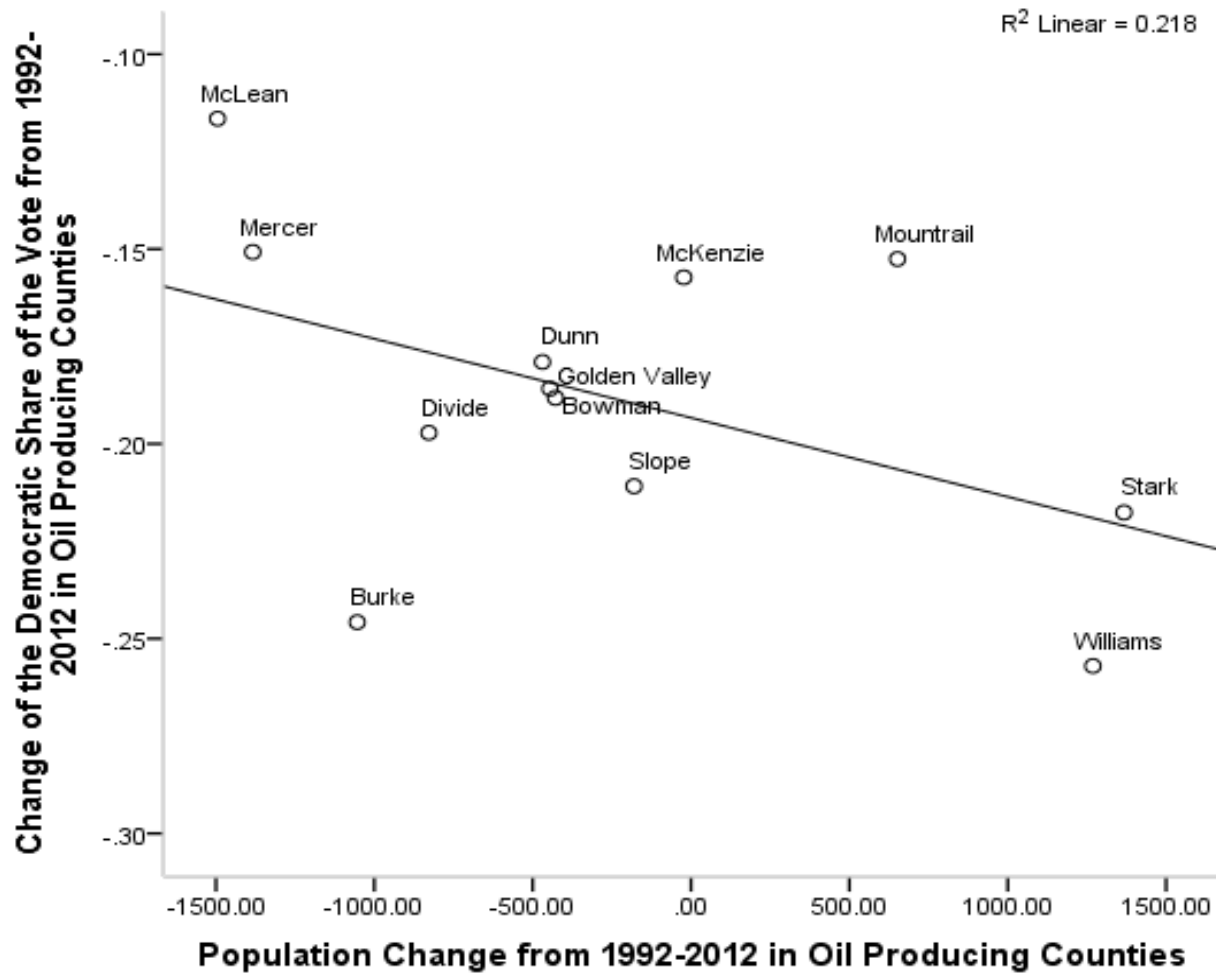
ND Secretary of State



Oil Production's Affect on Oil Producing Counties' Population



Population Change's Affect on the Share of the Democratic Vote in Counties that have Increased Oil Production 1992-2012



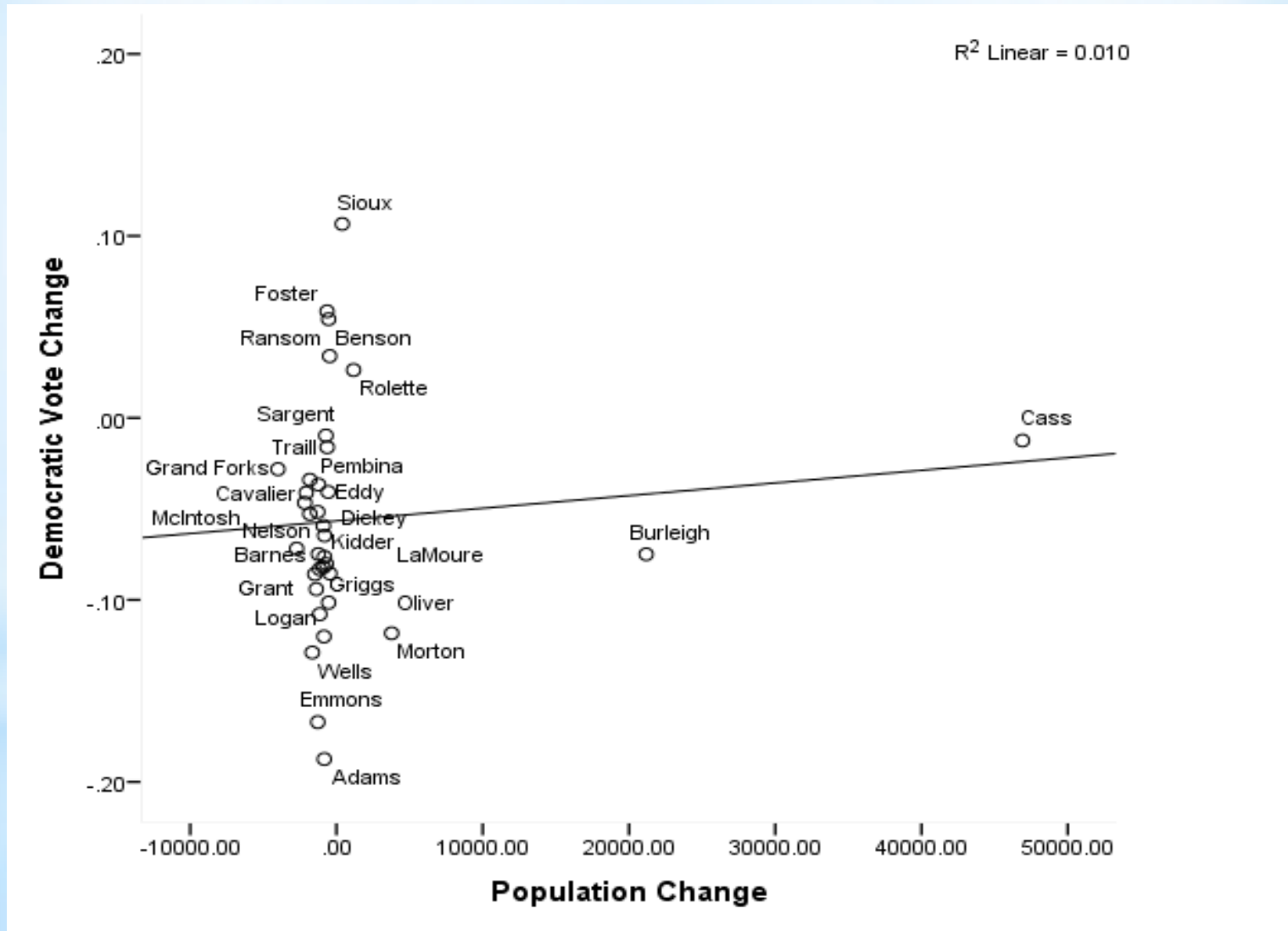
Relationship of Oil Production, Population Changes, and Democratic Vote on Each Other in Oil Producing Counties

		Oil Change	Population Change	Democratic Change	Change Black	Change Hispanic	Change White
Oil Production Change	Pearson Correlation	1	.480	.142	-.099	.413	.220
	Sig. (2-tailed)		.114	.661	.760	.182	.493
	N	12	12	12	12	12	12
Population Change	Pearson Correlation	.480	1	-.467	.669*	.836**	.921**
	Sig. (2-tailed)	.114		.126	.017	.001	.000
	N	12	12	12	12	12	12
Democratic Change	Pearson Correlation	.142	-.467	1	-.324	-.247	-.673*
	Sig. (2-tailed)	.661	.126		.304	.440	.017
	N	12	12	12	12	12	12
Change Black	Pearson Correlation	-.099	.669*	-.324	1	.708*	.620*
	Sig. (2-tailed)	.760	.017	.304		.010	.032
	N	12	12	12	12	12	12
Change Hispanic	Pearson Correlation	.413	.836**	-.247	.708*	1	.645*
	Sig. (2-tailed)	.182	.001	.440	.010		.024
	N	12	12	12	12	12	12
Change White	Pearson Correlation	.220	.921**	-.673*	.620*	.645*	1
	Sig. (2-tailed)	.493	.000	.017	.032	.024	
	N	12	12	12	12	12	12

*. Correlation is significant at the 0.05 level (2-tailed).

** . Correlation is significant at the 0.01 level (2-tailed).

Population Change's Affect on the Democratic Vote in Non-Oil Producing Counties

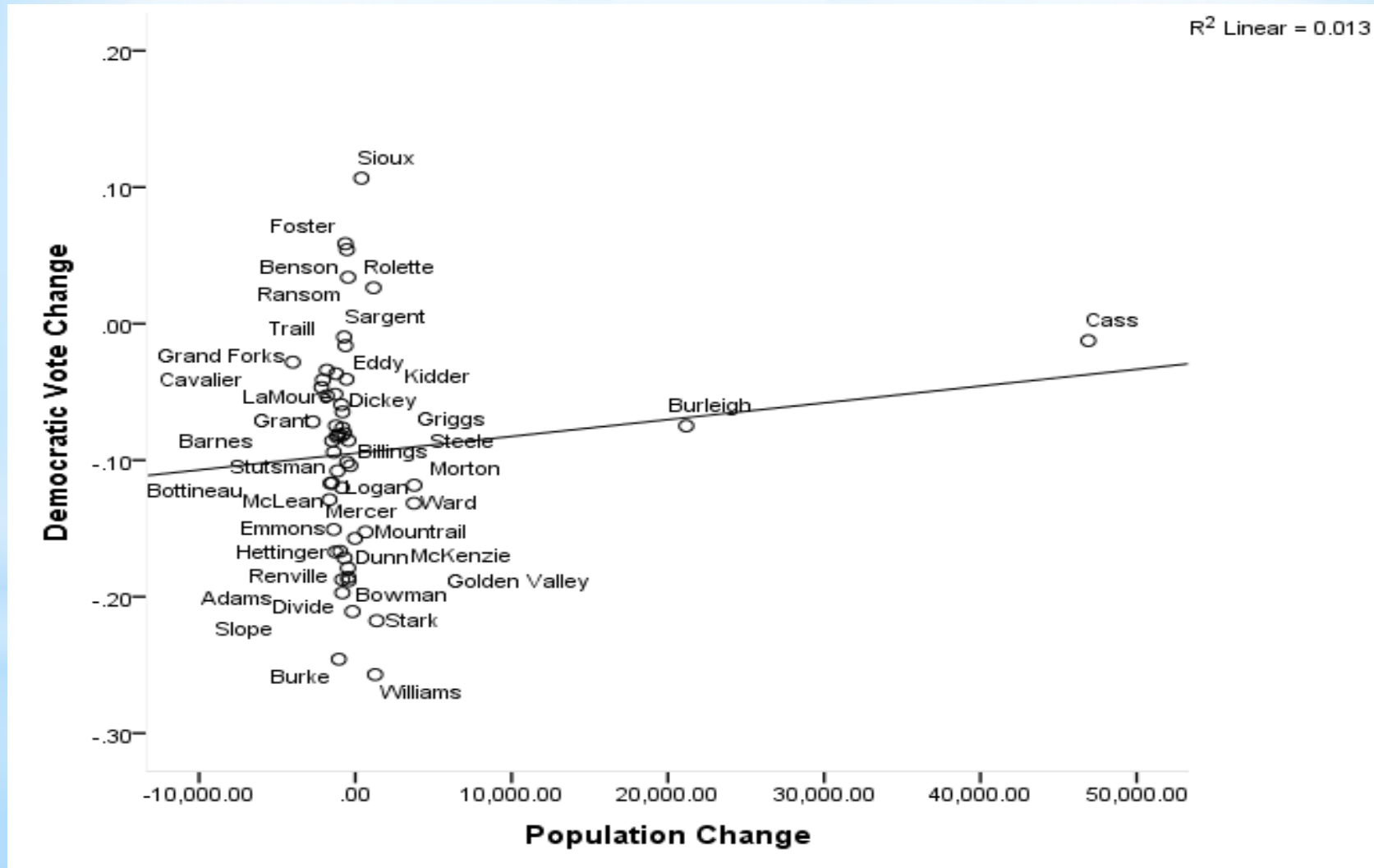


Relationship Between Population Change and the Democratic Share of the Vote in Non-Oil Producing Counties of North Dakota from 1992-2012

		Population Change	Democratic Change	Black Change	Hispanic Change	White Change
Population Change	Pearson Correlation	1	.100	.946**	.864**	.996**
	Sig. (2-tailed)		.566	.000	.000	.000
	N	35	35	35	35	35
Democratic Change	Pearson Correlation	.100	1	.103	.108	.074
	Sig. (2-tailed)	.566		.557	.536	.675
	N	35	35	35	35	35
Change Black	Pearson Correlation	.946**	.103	1	.899**	.934**
	Sig. (2-tailed)	.000	.557		.000	.000
	N	35	35	35	35	35
Change Hispanic	Pearson Correlation	.864**	.108	.899**	1	.827**
	Sig. (2-tailed)	.000	.536	.000		.000
	N	35	35	35	35	35
Change White	Pearson Correlation	.996**	.074	.934**	.827**	1
	Sig. (2-tailed)	.000	.675	.000	.000	
	N	35	35	35	35	35

** . Correlation is significant at the 0.01 level (2-tailed).

Population Increase's Affect on the Democratic Share of the Vote statewide



The Relationship Between Population Change of the Democratic Share of the Vote Statewide from 1992-2012

		Population Change	Democratic Change	Change Black	Change Hispanic	Change White	Oil Change
Population Change	Pearson Correlation	1	.114	.944**	.832**	.995**	-.013
	Sig. (2-tailed)		.417	.000	.000	.000	.925
	N	53	53	53	53	53	53
Democratic Change	Pearson Correlation	.114	1	.130	.105	.090	-.348*
	Sig. (2-tailed)	.417		.354	.455	.523	.011
	N	53	53	53	53	53	53
Black Change	Pearson Correlation	.944**	.130	1	.850**	.933**	-.047
	Sig. (2-tailed)	.000	.354		.000	.000	.740
	N	53	53	53	53	53	53
Hispanic Change	Pearson Correlation	.832**	.105	.850**	1	.785**	.006
	Sig. (2-tailed)	.000	.455	.000		.000	.966
	N	53	53	53	53	53	53
White Change	Pearson Correlation	.995**	.090	.933**	.785**	1	-.022
	Sig. (2-tailed)	.000	.523	.000	.000		.875
	N	53	53	53	53	53	53
Oil Change	Pearson Correlation	-.013	-.348*	-.047	.006	-.022	1
	Sig. (2-tailed)	.925	.011	.740	.966	.875	
	N	53	53	53	53	53	53

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Conclusion

All counties producing oil are becoming more Republican

Non-oil producing counties are becoming slightly more Democratic

Statewide, North Dakota is becoming *very slightly* more Democratic

However, oil production has a significant relationship on the increase in the Republican vote, dragging down the Democratic Vote

Thank you!

Any Questions?

