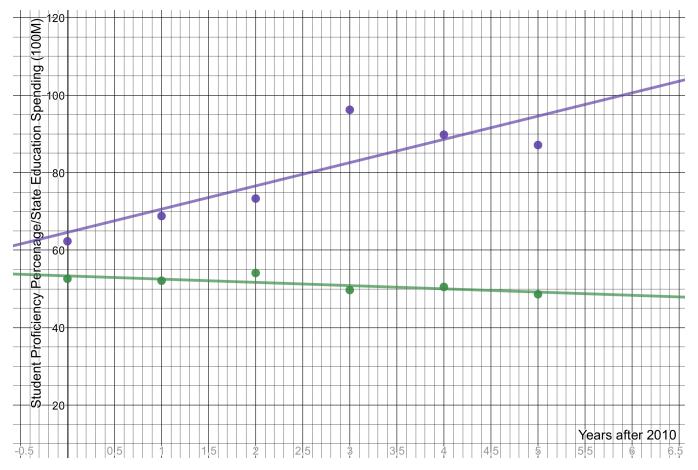
Group 1

The Relationship Between Math Proficiency and State Spending on Education

Hazel W. (66B), Aniyah H. (66B), MJ W. (66A), Will F. (66A)



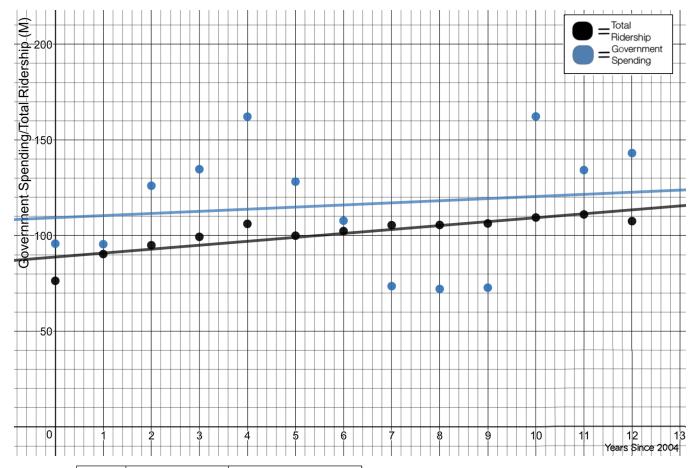
Year	Percent of Students at or Above Expected Growth Levels in Math	State Spending on Education Per Year (adjusted for inflation in 2019 dollars)
2010	52.6%	\$6,228,798,821.66
2011	52.1%	\$6,880,083,612.07
2012	54.1%	\$7,331,719,095.66
2013	49.7%	\$9,622,872,925.05
2014	50.5%	\$8,980,442,503.65
2015	48.6%	\$8,712,894,638.81

"Spending is going up (adjusted for inflation in 2019 dollars), and the percentages of students at expected growth levels in math is going down."

Group 2

State Transportation Spending vs Public Transportation Ridership

Emilia (65B), Daniela (67A), and Jonas (65B)



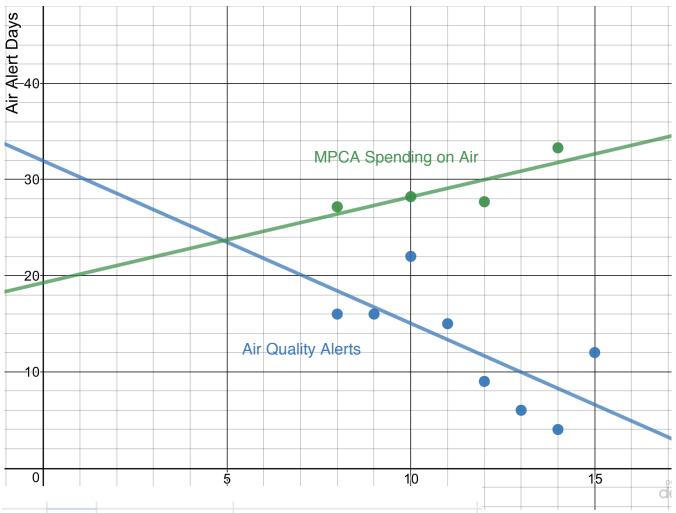
Year	Rides taken on public transportation (in millions)	Government spending on public transportation (in millions)
2004	76.3	95.7
2005	90.3	95.4
2006	94.9	126.0
2007	99.3	134.6
2008	106.1	162.1
2009	99.9	128.1
2010	102.3	107.7
2011	105.4	73.5
2012	105.5	72.0
2013	106.3	72.7
2014	109.7	162.2
2015	111.0	134.2
2016	107.5	143.1

According to the data, public ridership is always upward. We need to spend more on public transportation to help people who don't have any other choices.

Group 3

Minnesota Air Quality vs MNPCA Spending on Air

Jackson.S (64B), Leland E (64B), Otis.K (67A), and Owen.V (65B)



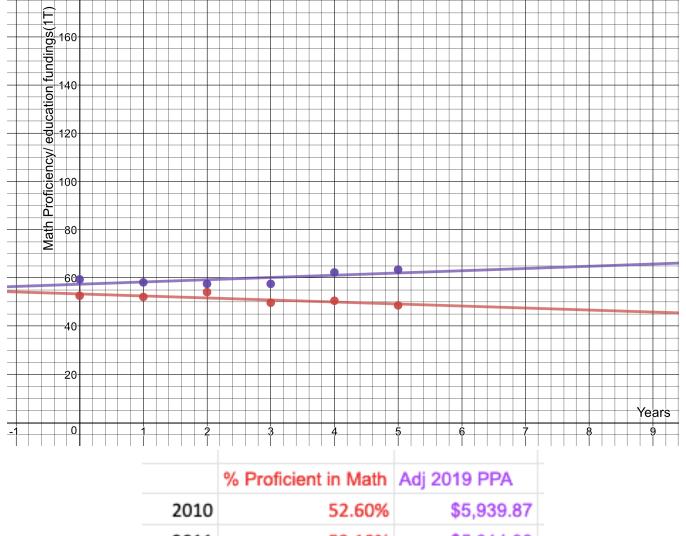
	Year	Air Quality Days	MNPCA Spending on Air (Adj)
8	2008	16	27,155,432.11
9	2009	16	
10	2010	22	28,211,507.14
11	2011	15	
12	2012	9	27,679,512
13	2013	6	
14	2014	4	33,287,129
15	2015	12	
		Source: Minneso	ta Pollution Control Agency

Minnesota has improved its air quality. In 2010, it had 22 days of air quality alerts that's the highest it's ever gotten.

Group 4

Math Proficiency in 8th Grade vs State Education Spending

Maleah Y (66B), Jude W (66B), Cardell O (67B), and Gabby H (67A)

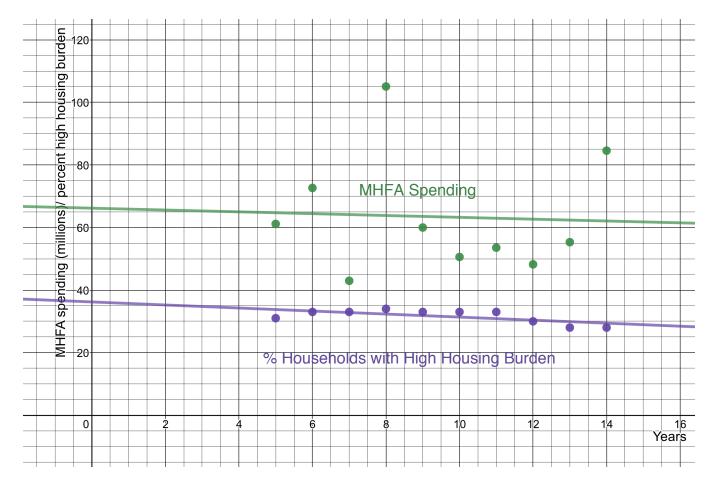


	% Proficient in Math	Adj 2019 PPA
2010	52.60%	\$5,939.87
2011	52.10%	\$5,814.30
2012	54.10%	\$5,751.46
2013	49.70%	\$5,753.07
2014	50.50%	\$6,226.08
2015	48.60%	\$6,343.48

Math education funding is helpful for students who struggle because having education funding can help hire people who help students understand the topic.

Group 5 Households with High Housing Burden vs MHFA Spending

Kian D (65B), Joshua O (65B), and Jaime V (67A)



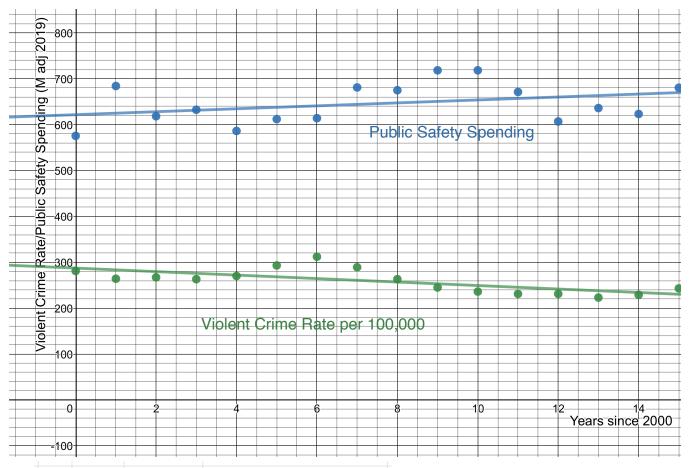
	% with high housing burden	Adjusted to 2019 Dollars
2005	31%	61,136,069.43
2006	33%	72,645,075.22
2007	33%	42,955,900.69
2008	34%	105,067,762.45
2009	33%	59,984,092.28
2010	33%	50,575,538.25
2011	33%	53,548,328.96
2012	30%	48,215,496.47
2013	28%	55,297,893.76
2014	28%	84,557,900.34

Access to affordable housing is a key component of a thriving economy. Housing values are increasing and homeowners are taking chances with alternative financing methods.

Group 6

Violent Crime Rate in MN vs Spending on Public Safety and Corrections

Demare G (67A), Cyanna R-S (67A), Dani B (65B), and Sami O. (65B)



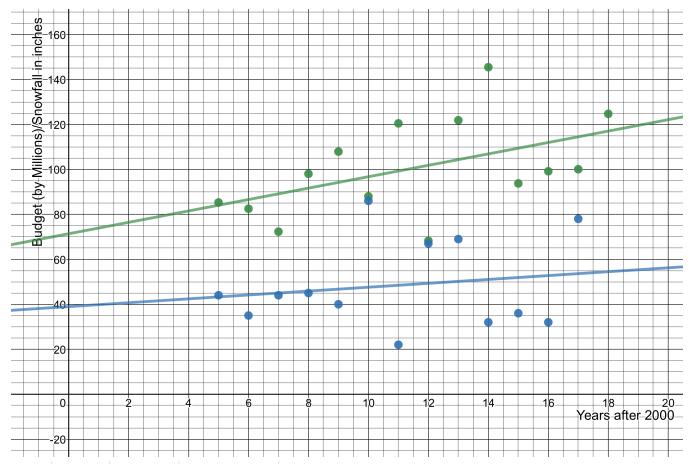
Year	Year Adj	Violent Crime	Public Safety/Correction Adj 2019
2000	0	281	575,487.05
2001	1	264	684,173.91
2002	2	267	618,350.51
2003	3	263	632,442.99
2004	4	270	586,222.90
2005	5	293	612,017.67
2006	6	312	613,990.81
2007	7	289	681,075.85
2008	8	263	674,932.92
2009	9	245	718,425.14
2010	10	236	718,425.14
2011	11	231	671,263.97
2012	12	231	606,840.10
2013	13	223	636,115.52
2014	14	229	623,226.34
2015	15	243	680,410.26

The Violent Crime rate is dropping statewide, to keep this number decreasing we advocate that more money goes into public safety spending.

Group 7

State Transportation Spending vs Snowfall: a Story of Poor Snow & Ice Removal

Eli B (64B), Oliver P (64A), Leo G (67A), and William P (67A)

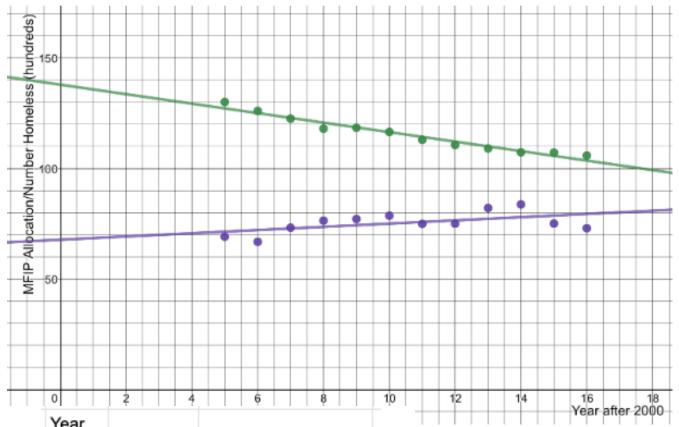


Years	Budget (Millions)	Yearly Snowfall (Inches)
2005	85.3	44
2006	82.5	35
2007	72.3	44
2008	98	45
2009	107.9	40
2010	88	86
2011	120.5	22
2012	68.3	67
2013	121.9	69
2014	145.5	32
2015	93.8	36
2016	99.2	32
2017	100.1	78
2018	124.7	N/A

Our group believes that we need to ensure more, and steady, transportation funding in order to keep Minnesota's drivers safe.

Group 8 Homelessness in Minnesota vs MFIP Allocation

Sebastian S (67A), Lae Doh W (52A), Gabe K (67A)



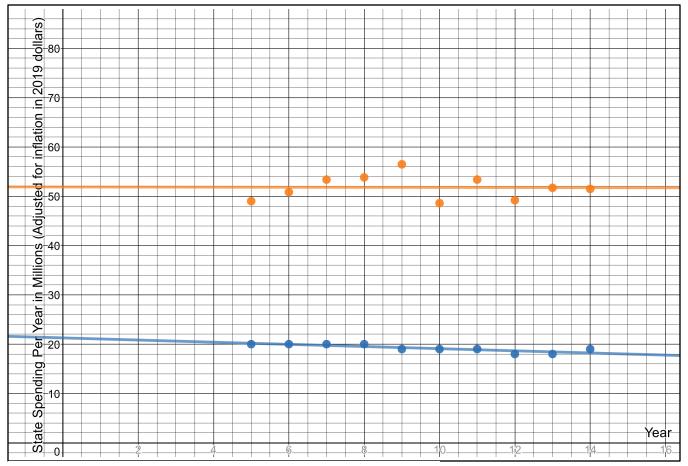
Year (after 2000)	MFIP (adj 2019)	Number Of Homeless (hundreds)
5	\$130.16	69.18
6	\$126.09	66.85
7	\$122.60	73.23
8	\$118.07	76.44
9	\$118.49	77.18
10	\$116.58	78.69
11	\$113.01	75.68
12	\$110.72	74.95
13	\$109.12	73.06
14	\$107.38	82.14
15	\$107.25	83.77
16	\$105.91	73.04

Homelessness in increasing statewide and the MFIP allocation has fallen in 2019 dollars every year. The causes of homelessness are many, but we should do more to help.

Group 9

Recidivism and State Spending on Corrections

Jaielle G. (65B), Sofia M. (65B), Lalayia F. (66A), and Emi S. (67A)



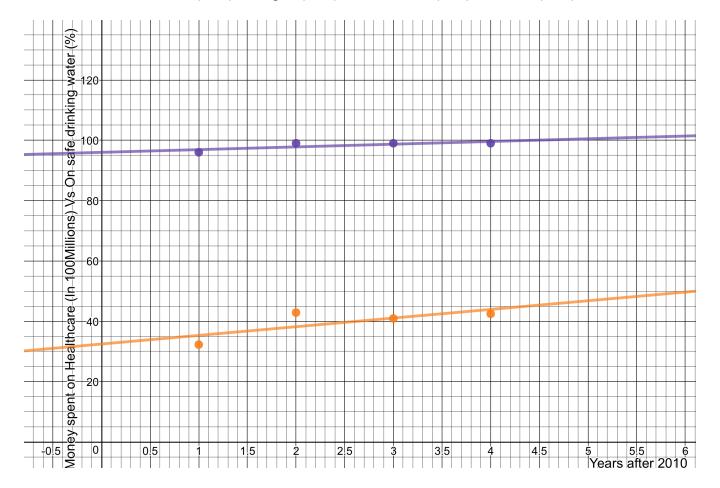
Year	Recidivism Rate	State Spending per year (Adjusted for inflation in 2019 dollars)
2005	20%	490,054.08
2006	20%	508,318.26
2007	20%	533,772.46
2008	20%	534,821.51
2009	19%	564,760.76
2010	19%	485,961.86
2011	19%	533,776.85
2012	18%	491,887.08
2013	18%	511,712.51
2014	19%	514,896.06

Spending more money on programs like Hudson link, lowers the rate of recidivism. Assisting felons back into society prevents them from committing crimes and lowers rates.

Group 10

Safe Drinking Water vs Spending on Healthcare

Moe R (67A), Keng V (53A), Jonathan R (67b), Aras W (67A)

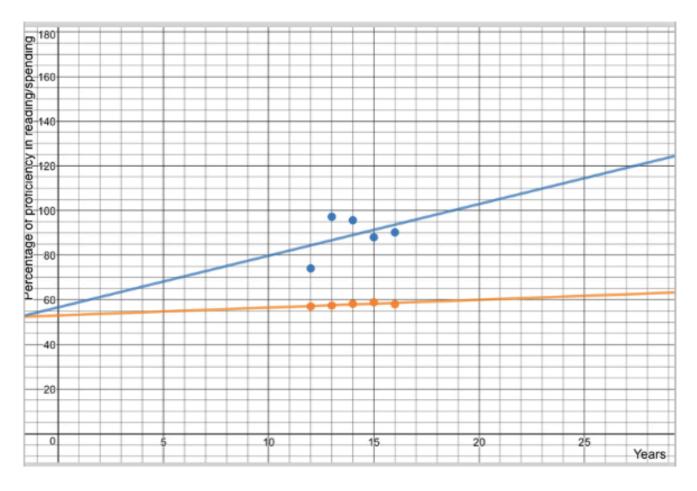


Years	Healthcare spending	Safe drinking water
2011	3,227,869	96%
2012	4,288,490	99%
2013	4,093,265	99%
2014	4,248,812	99%

Water is a fundamental resource that humans need to live on. That means having safe drinking water where you live is important.

Group 11
Education Spending vs 3rd Grade Reading Proficiency

Noah K (67B), Ulric C (67A), Leo M (65A), and Calvin D (66B)

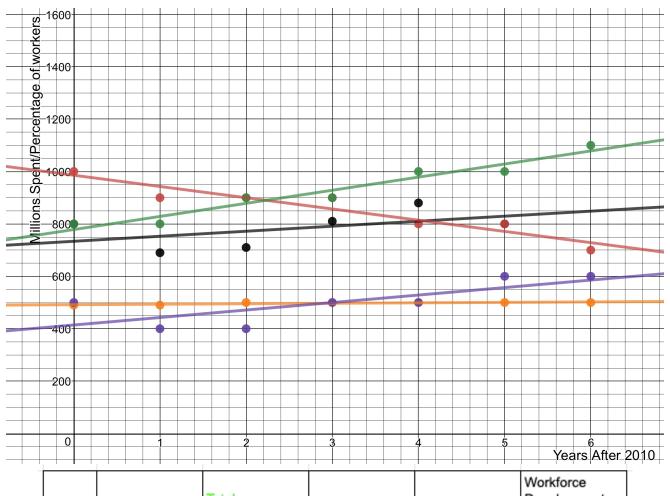


,	Years	Money Spent	Reading %
	2012	\$7,404,246.35	57.00%
	2013	\$9,718,064.86	57.40%
	2014	\$9,562,936.08	58.20%
	2015	\$8,799,084.84	58.90%
	2016	\$9,020,664.70	58.00%

The data table shows
Minnesota's spending has a little effect on reading levels. A possible solution could be to spend more money.

Group 12 Some Kind of Title Should Go Here

Ted D (65B), Anders M (65B), Liam S (67A), and Ben AK (64B)



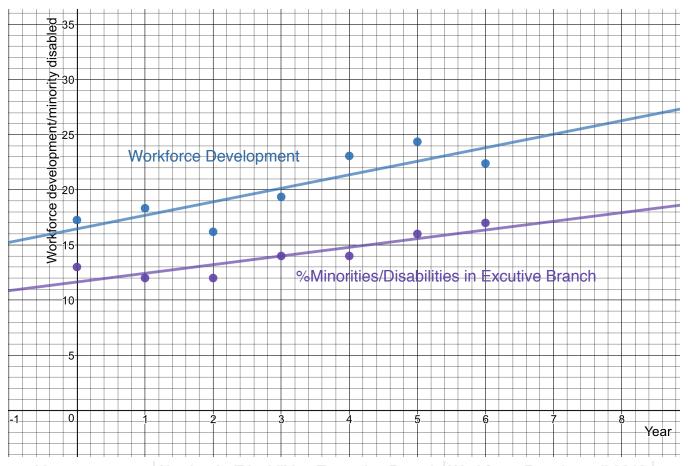
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800
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Workforce-diversity is very important to Minnesota, and our Graph shows the percent of minorities and then we show the fund for workforce diversity in years after 2010.

Group 13

Workforce Diversity vs. Spending on Diversifying the Workforce

Bea L. (65B), Frankie W. (64A), Sarah W. (65A), and Lucy G. (65A)



Year	% minority/Disabilities Executive Branch	Workforce Develop adj 2019
2016	17%	223,889.81
2015	16%	243,555.14
2014	14%	230,707.64
2013	14%	193,578.36
2012	12%	161,918.49
2011	12%	183,294.32
2010	13%	172,576.17

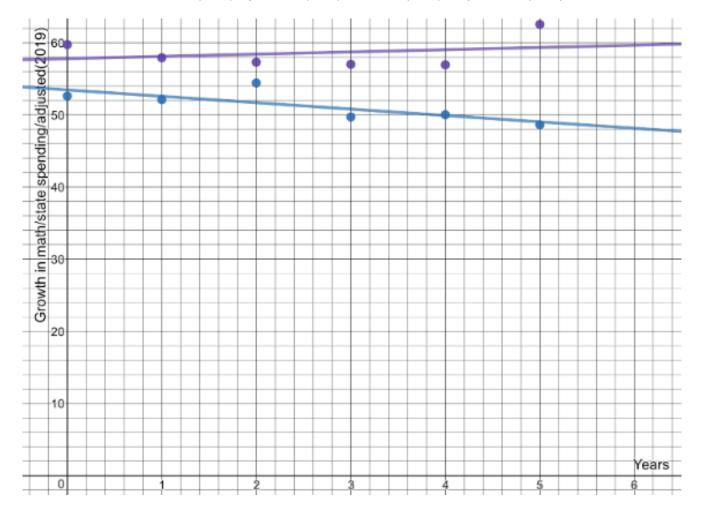
As the workforce becomes an environment for everyone, we have more people taking jobs. As people feeling lesser take them, they feel equal.

Group 14

Proficiency Rate in Math vs Per Pupil Allocation

Mi Raw (CCR) Ludio C. (CCA) Care B. (CCA) Care in Mr. (CCR)

Mi Paw (66B) Lydia G. (65A) Sam P. (66A) Sophie W. (67B)



Year	Growth in Math	Adjusted (2019)
2010	52.60%	\$5,973.38
2011	52.10%	\$5,790.60
2012	54.10%	\$5,728.55
2013	49.70%	\$5,700.41
2014	50.50%	\$5,693.17
2015	48.60%	\$6,253.78

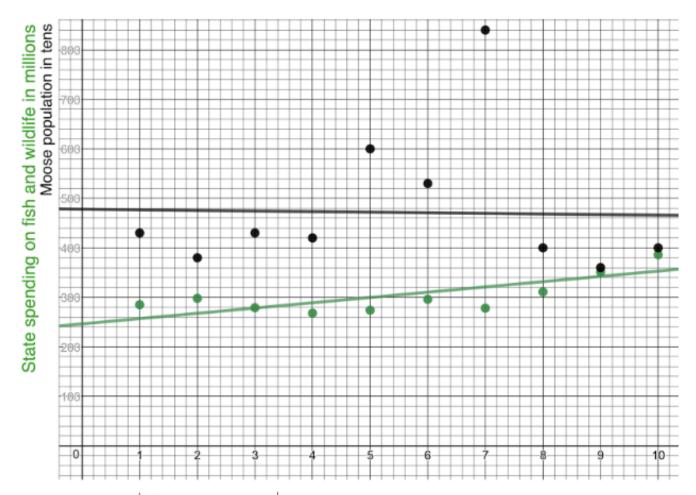
"So it's not money that matters, it's what the policymakers can create to get teachers and students going towards the goal of higher student achievement," said Associate professor Nicola Alexander.

https://www.usinflationcalculator.com/

Group 15

State spending on Fish and Wildlife vs Moose Population

Calvin C. (65B) and Mikko L. (65B)



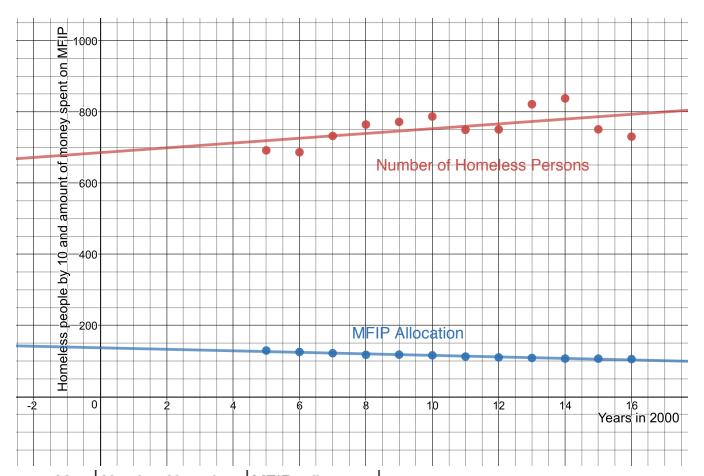
x_1	\bigcirc y_1	x_2	$\bigcirc y_2$
1	285	1	430
2	298	2	380
3	279	3	430
4	268	4	420
5	274	5	600
6	296	6	530
7	278	7	840
8	311	8	400
9	351	9	360
10	386	10	400
11	388	11	390

"As moose populations benefit all Minnesotans, it is critical that a broad source of funding be developed because without sound scientific information, we may lose moose and never know why."

Group 17

Correlation of Homelessness spending and Homelessness rates in Minnesota

Henry B (64B), Lucas R (64B) and Aidan J (64A)



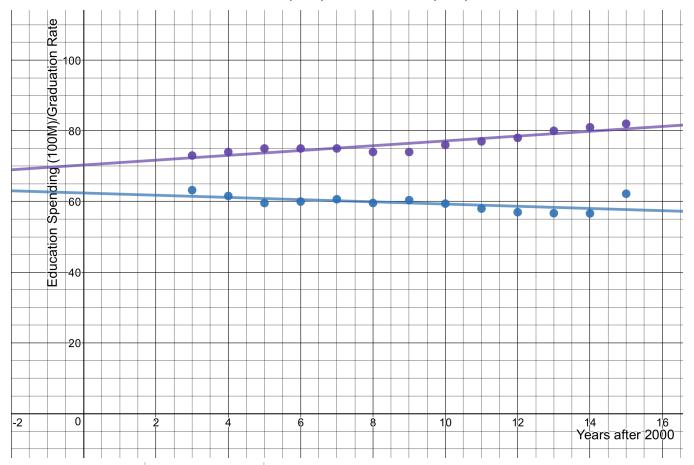
Year	Number Homeless	MFIP adj
2005	6918	129.43
2006	6865	125.38
2007	7323	121.91
2008	7644	117.4
2009	7718	117.82
2010	7869	115.92
2011	7495	112.38
2012	7505	110.1
2013	8214	108.51
2014	8377	106.78
2015	7509	106.65
2016	7304	105.32

As the amount of homelessness has fluctuated quite a bit the correlation is clear as the overall value of what MFIP spending goes down the amount of homelessness goes up.

Group 18

Education Spending and its Impact on High School Graduation Rates in Four Years

Oliver J. (67B) and Hiroko Z. (66B)

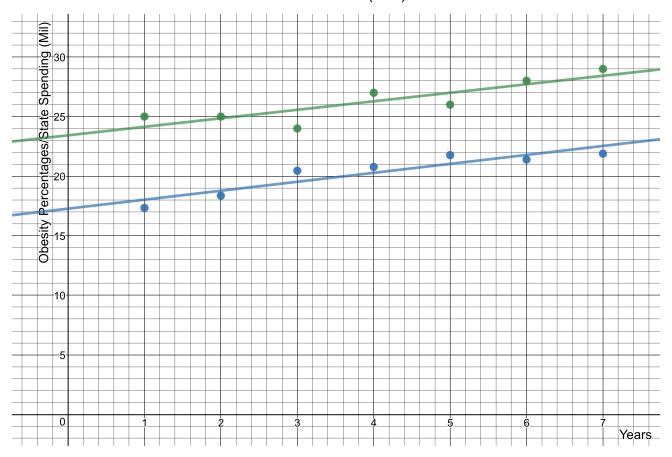


Year after 2000	Graduation Rate	PPA Data Adj 2019
3	73.0%	6,320.77
4	74.0%	6,156.82
5	75.0%	5,955.06
6	75.0%	5,997.16
7	75.0%	6,063.93
8	74.0%	5,957.12
9	74.0%	6,037.30
10	76.0%	5,939.87
11	77.0%	5,758.11
12	78.0%	5,696.42
13	80.0%	5,668.44
14	81.0%	5,661.24
15	82.0%	6,218.70

As the years go by, the graduation rate is slowly increasing. But if Education Spending goes up, the graduation rate should increase faster.

Group 19
State Spending on Healthcare and Obesity Over the Years

Krista H (65A), Natasha K (65B), Lucy A-B (65A), and Debora T (64B)



Year	State Spending (Mill)	Obesity Percentage
2011	17.051589	25
2012	17.329677	25
2013	18.356892	24
2014	20.448461	27
2015	20.775793	26
2016	21.764182	28
2017	21.393829	29

Except for smoking, obesity is now the number one preventable cause of death in this country. Three hundred thousand people die of obesity every year.