

Youth Suicide Prevention in Nebraska: Data Trends

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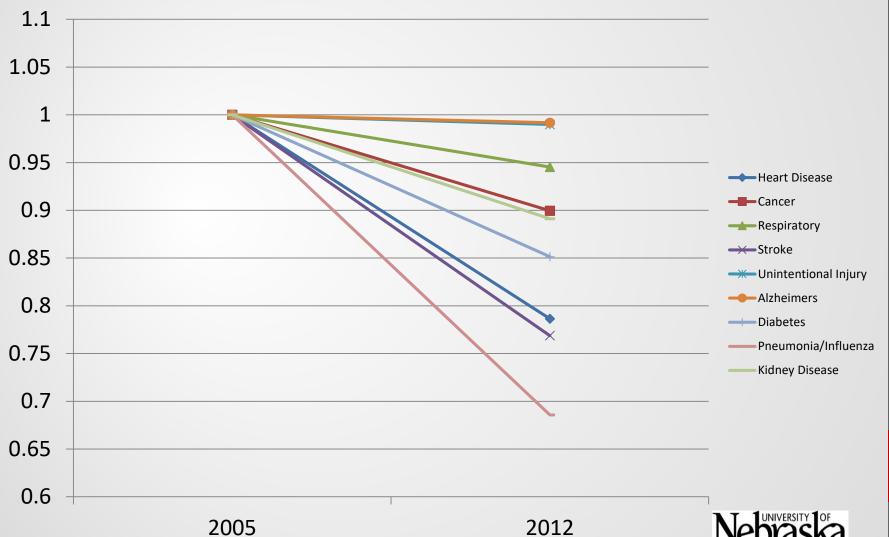


Overview

- The Value of Prevention
- National Context
- Nebraska's Youth Suicide Prevention Initiative
- What More Can We Do to Prevent Youth Suicide?



Change in US Death Rates – Top 9 Causes of Death

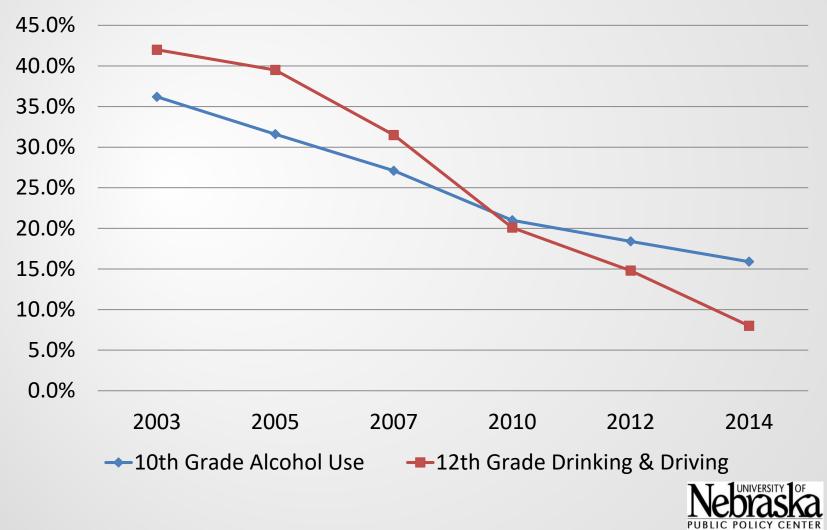


Change in US Death Rates -Top 10 Causes of Death 1.2 1.1 Heart Disease 1 ----Cancer -------Stroke 0.9 Diabetes Pneumonia/Influenza 0.8 **Kidney** Disease ----Suicide 0.7 0.6 2005 2012





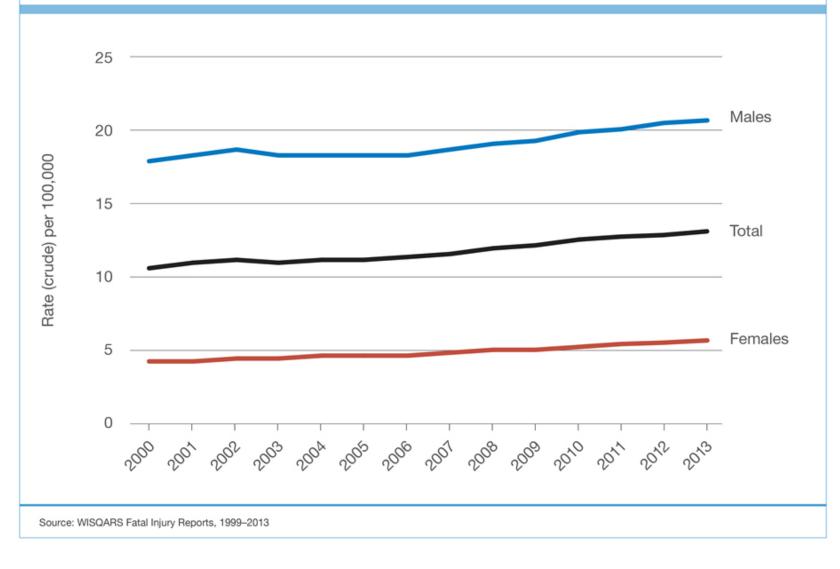
NRPFSS Trends 2003 - 2014



National Context

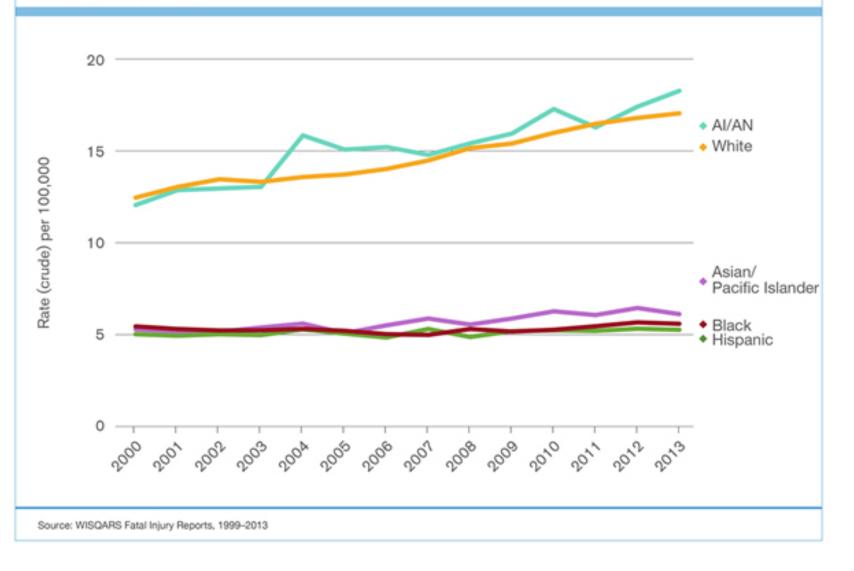


Suicide Deaths in the United States by Sex, 2000–2013

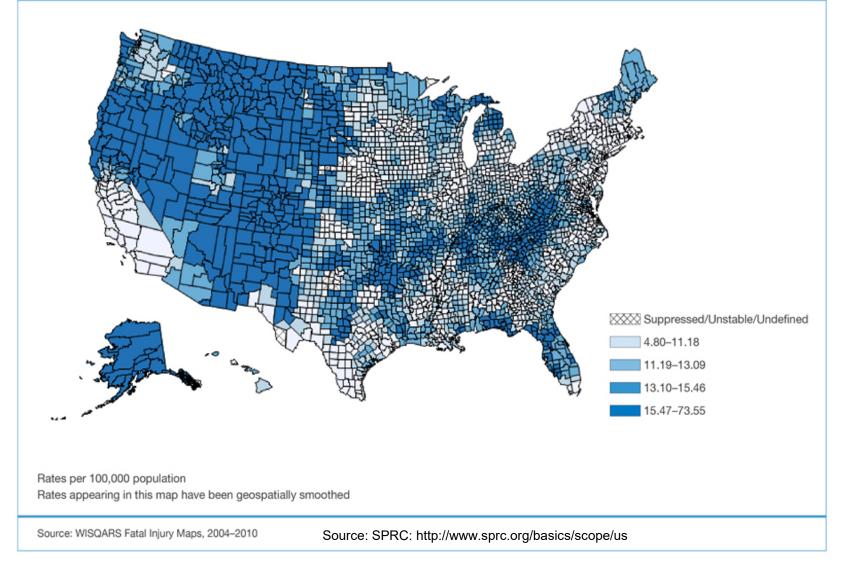


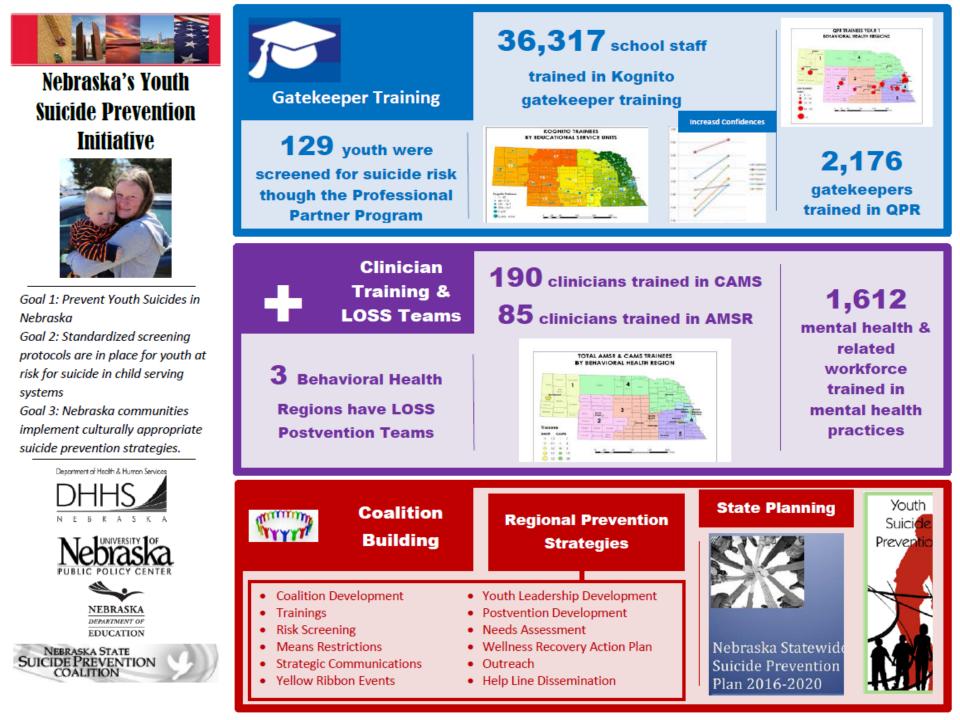
Suicide Rates by Age, United States, 2000-2013 25 Age groups 20 45-64 Rate (crude) per 100,000 65+ 25-44 15 15-24 10 5 0 205 206 201 208 200 200 2003 201 2012 2013 2004 Source: WISQARS Fatal Injury Reports, 1999-2013

Rate of Suicide by Race/Ethnicity, United States 2000–2013



United States Suicide Rates — Geographical Distribution (County Level)





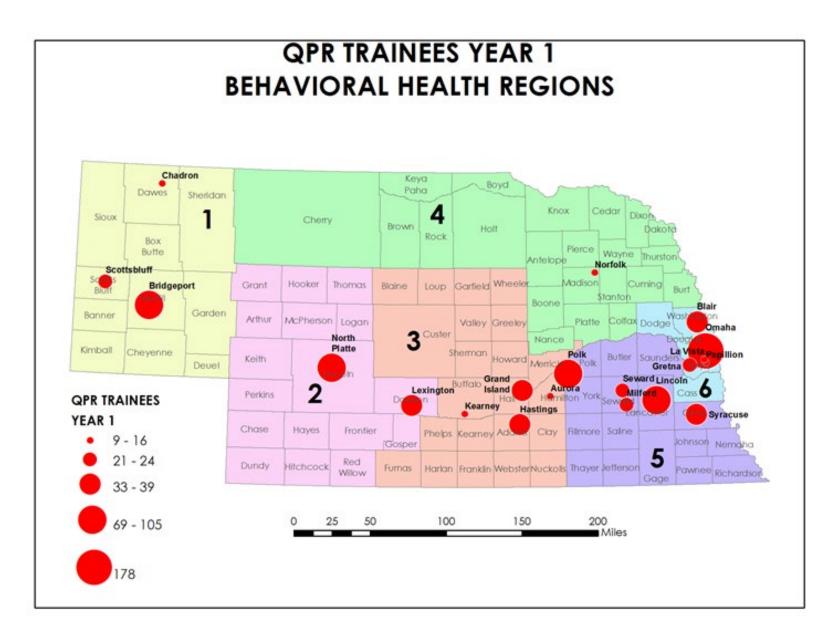
Suicide Screening in the Professional Partner Program 7/1/15 - 3/30/16

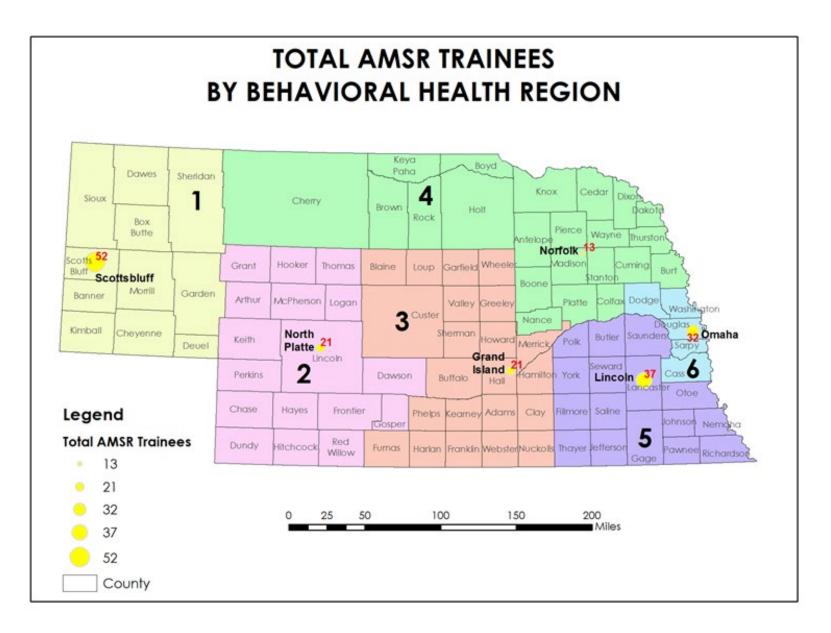
Gender	Number Screened		Number Referred for Mental Health Services69			
All	496	181	69			
Male	263	87	-			
Female	193	93	-			

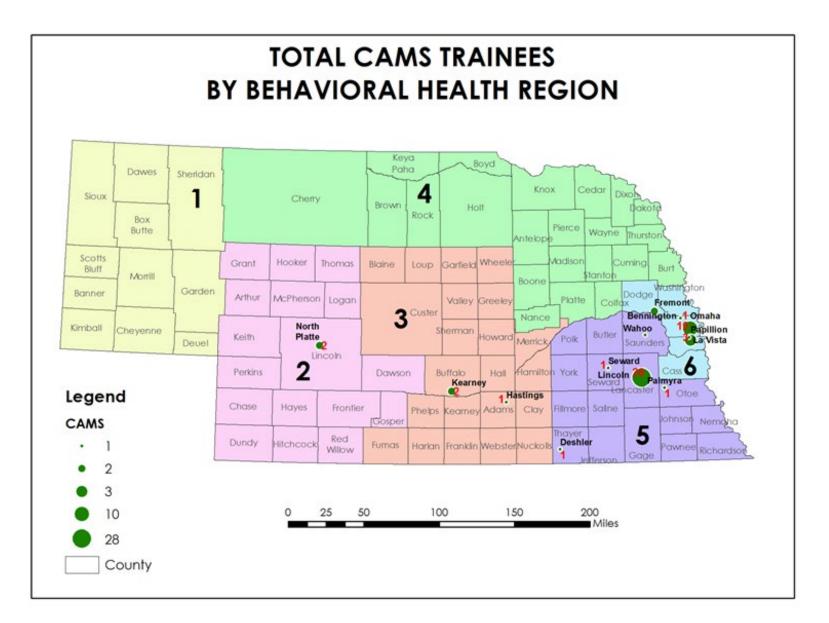


Number Trained by Type of Training 10/1/14 - 3/30/16

Training	Number Trained
Kognito	38,811
Question Persuade Refer (QPR)	2,841
Yellow Ribbon	600
Assessing & Managing Suicide Risk (AMSR)	190
Collaborative Assessment and Management of Suicidality (CAMS)	97
Connect Postvention	51
Local Outreach to Suicide Survivors (LOSS) Team 101	20
TOTAL	42,600







CAMS Evaluation

How useful was the CAMS training to your work?

Very Useful	Useful	Somewhat Useful	Neutral	Somewhat Useless	Useless	Very Useless
19 (35%)	27 (50%)	6 (11%)	1 (2%)	1 (2%)	0	0

How likely are you to recommend the CAMS training to a colleague?

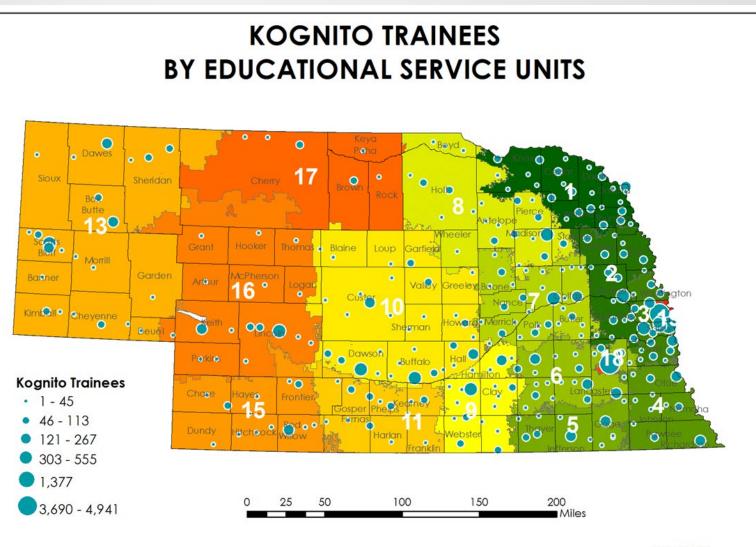
Very Likely	Likely	Somewhat Likely	Neutral	Somewhat Unlikely	Unlikely	Very Unlikely
18 (33%)	22 (41%)	10 (19%)	0	2 (4%)	1 (2%)	0

Please rate the ease of your experience with the CAMS online training environment.

Very Easy	Easy	Somewhat Easy	Neutral	Somewhat Difficult	Difficult	Very Difficult
9 (17%)	19 (35%)	10 (19%)	2 (4%)	8 (15%)	4 (7%)	2 (4%)

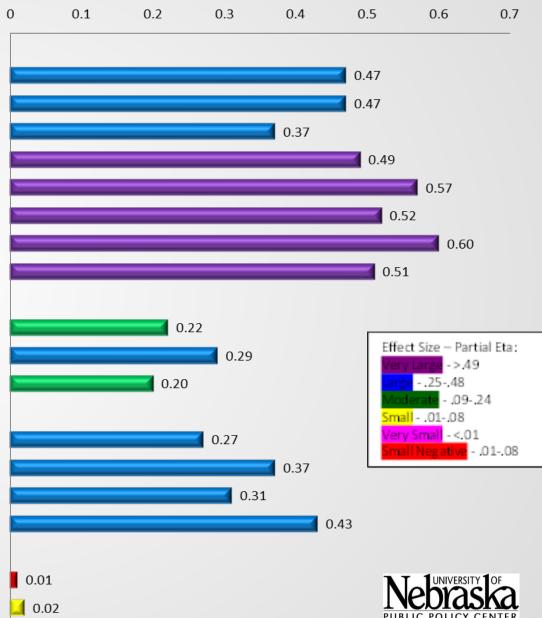


April 1, 2015 – October 8, 2015



10-26-2015

Kognito pre-post effect sizes



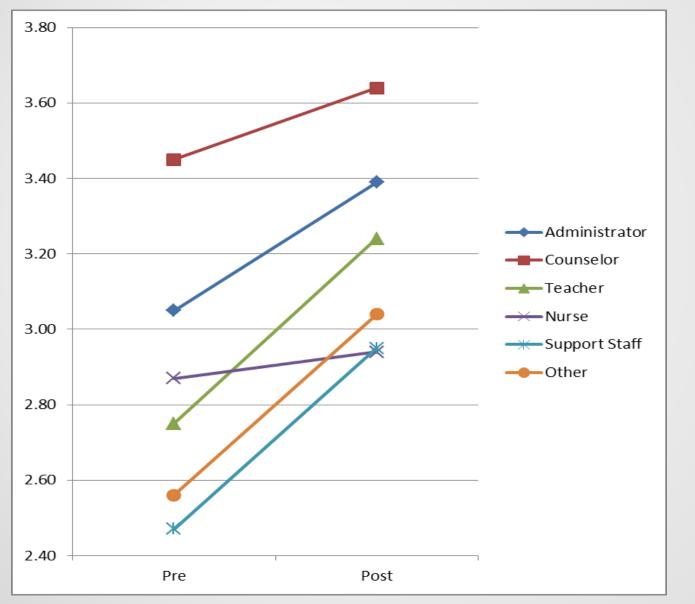
Recognize student's behavior as a sign Recognize drop in academic performance as a sign Recognize physical appearance as a sign Have a discussion with a student Motivate parent to seek help for child Discuss concern with parent Apply communication strategies Inform parents about mental health services

> Likely to discuss with student Likely to discuss with parent Likely to help parents with services

Confident in ability to discuss with student Confident in ability to discuss with parent Confident in ability to help parent with services Confident in applying communicaton strategies

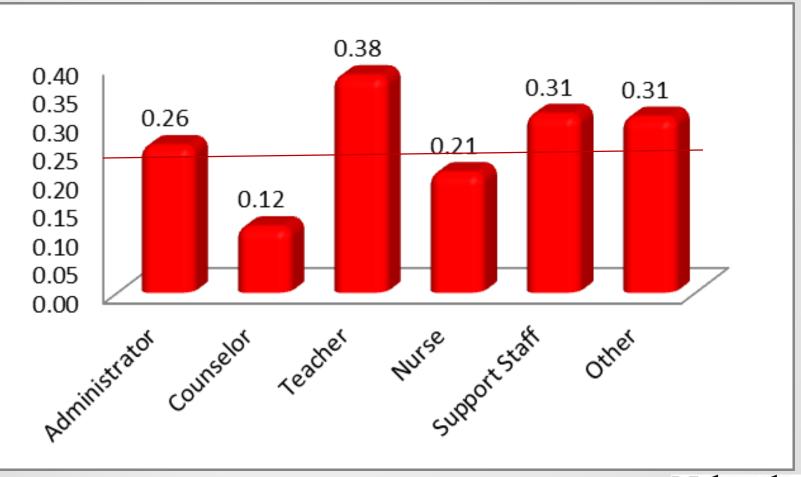
Mental health plays a role in student success Role of educator to help parents with services

Change in pre-post scores for confidence questions by profession for elementary school trainees





Effect size (Partial Etas) for confidence questions by profession for elementary school trainees

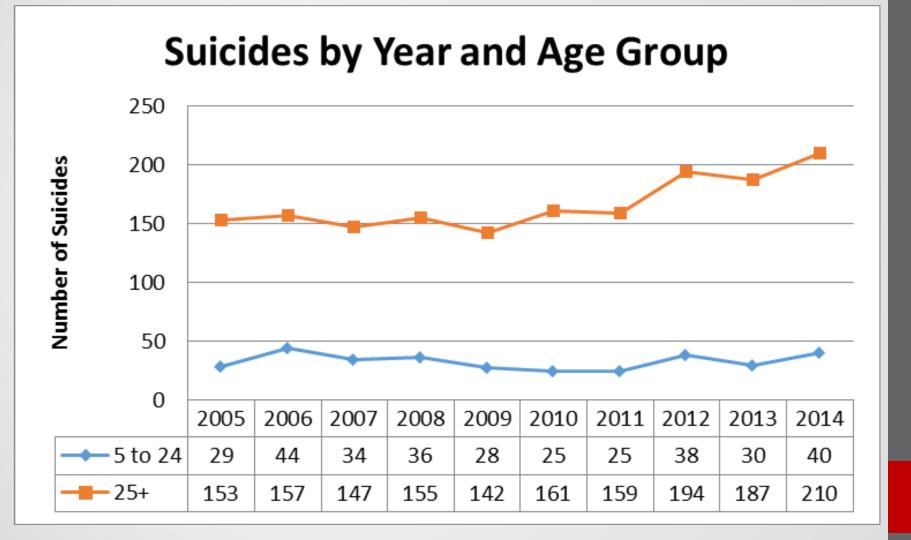




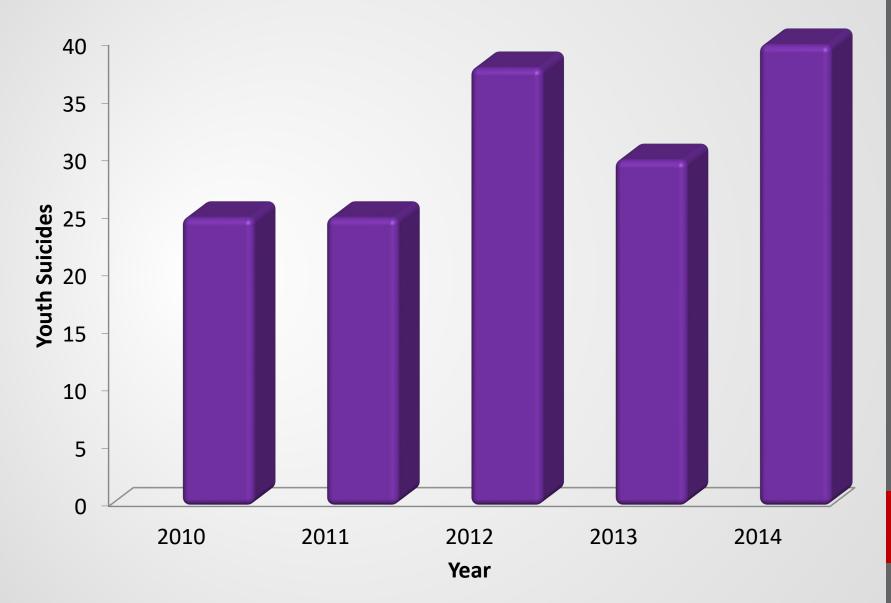
What are the characteristics of youth suicide in Nebraska?

How can we use this information to improve prevention efforts?

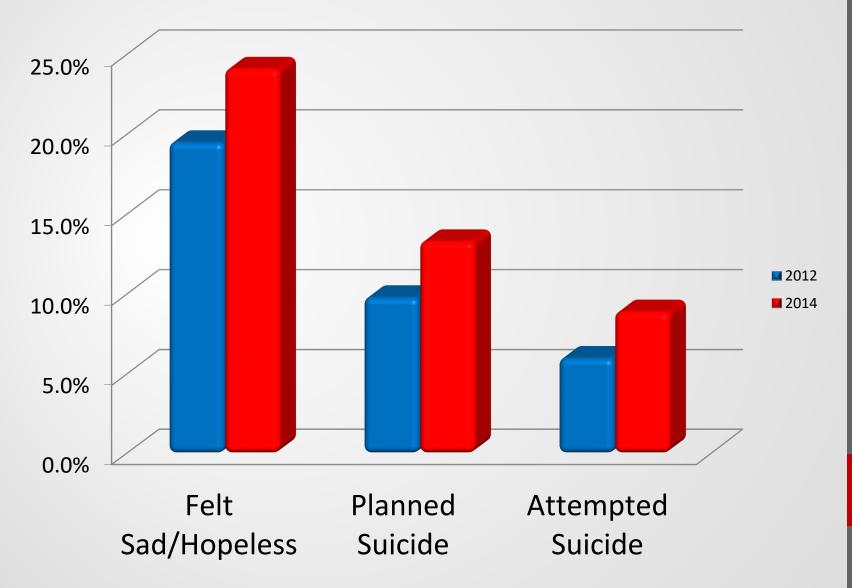




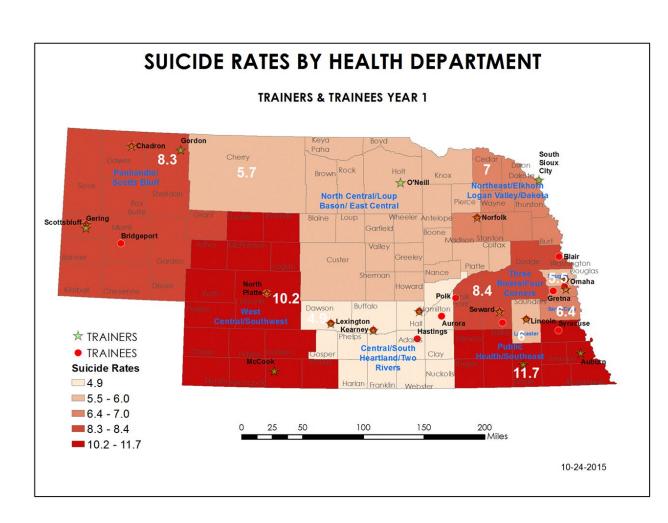
Youth Suicides by Year



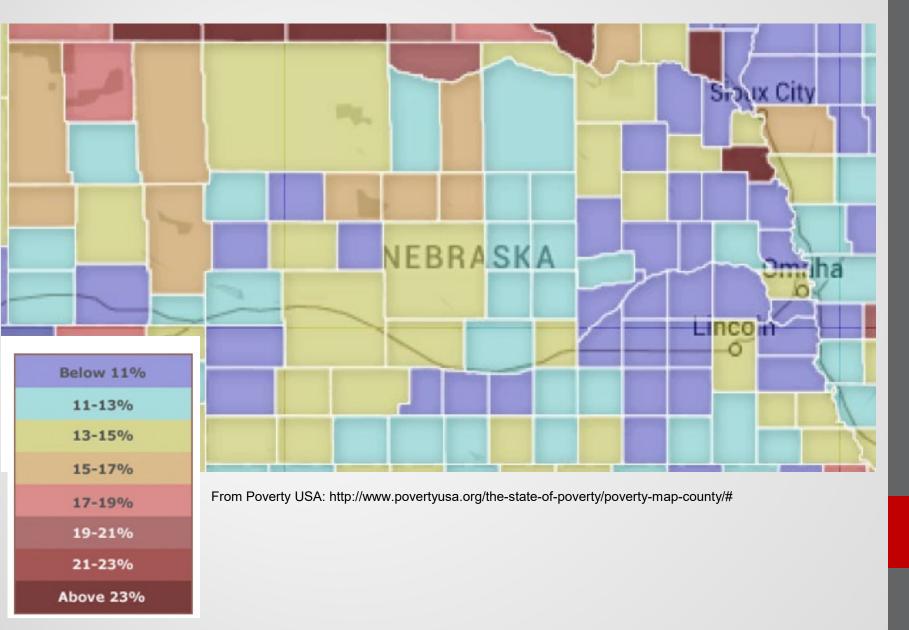
Change in Youth Risk Behavior Survey Percent



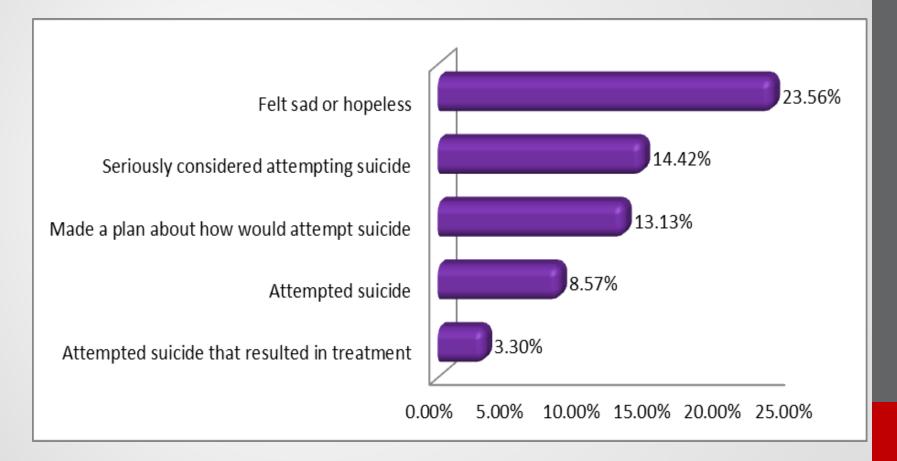
Average Annual Suicide Rate, Ages 5 – 24 by Health Department 2005 – 2014



Nebraska Poverty Rates by County



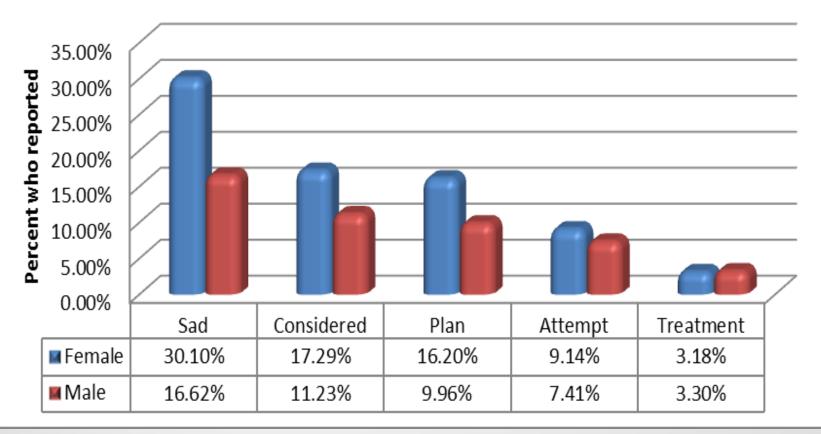
2014 Youth Risk Behavior Survey





2014 Youth Risk Behavior Survey

Gender Differences



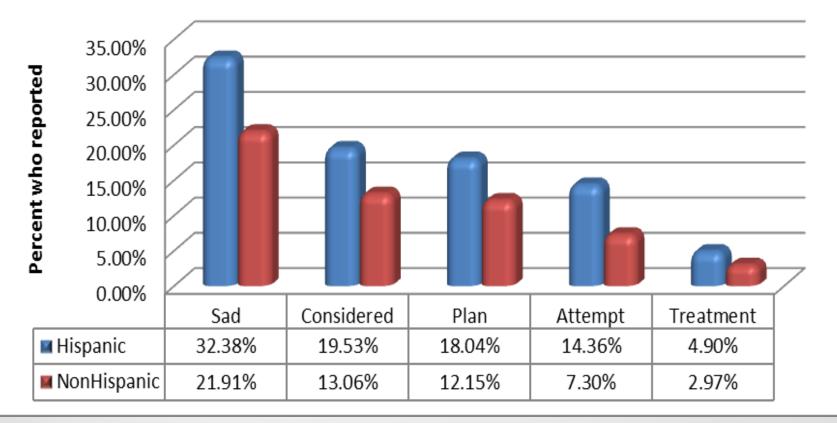


Nebraska Suicides 2005-2014: 10-24 Year Olds by Gender



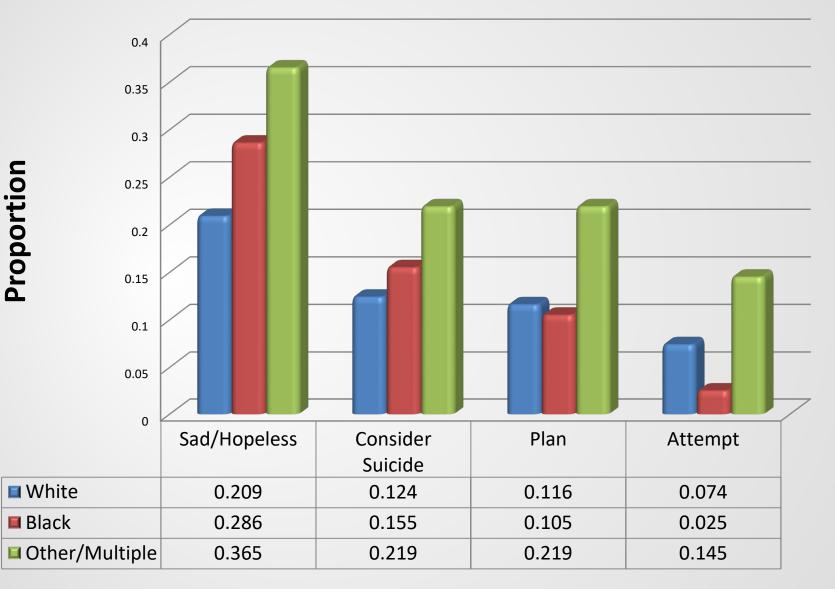
2014 Youth Risk Behavior Survey

Differences Based on Hispanic Status



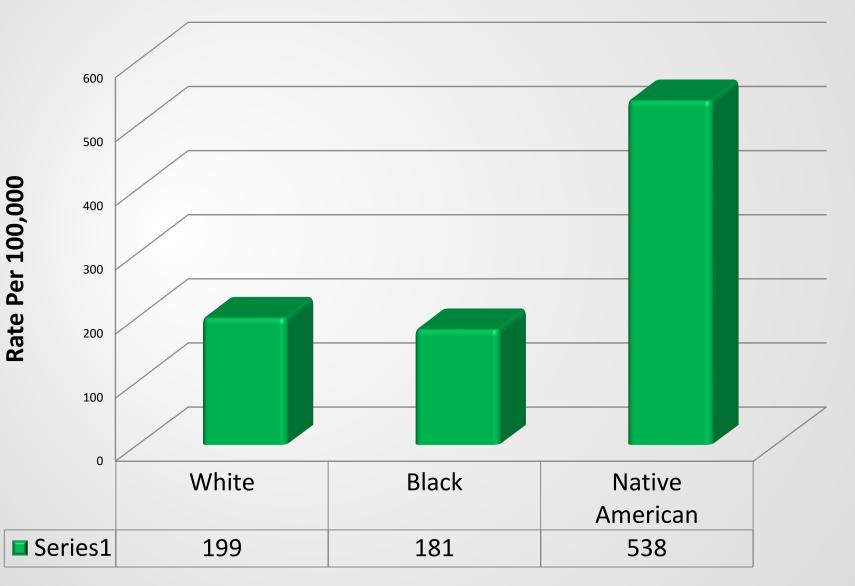


2014 Nebraska YRBS by Race*



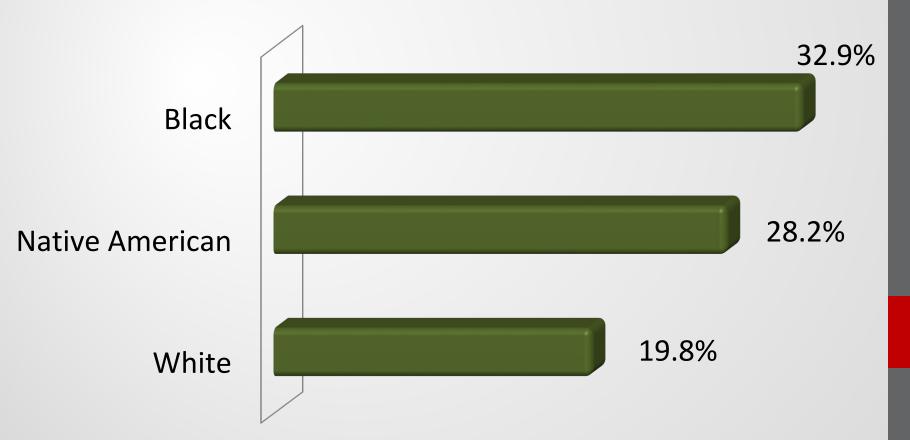
* Number of black and other/multiple respondent < 100 and too small to draw inferences to the general population

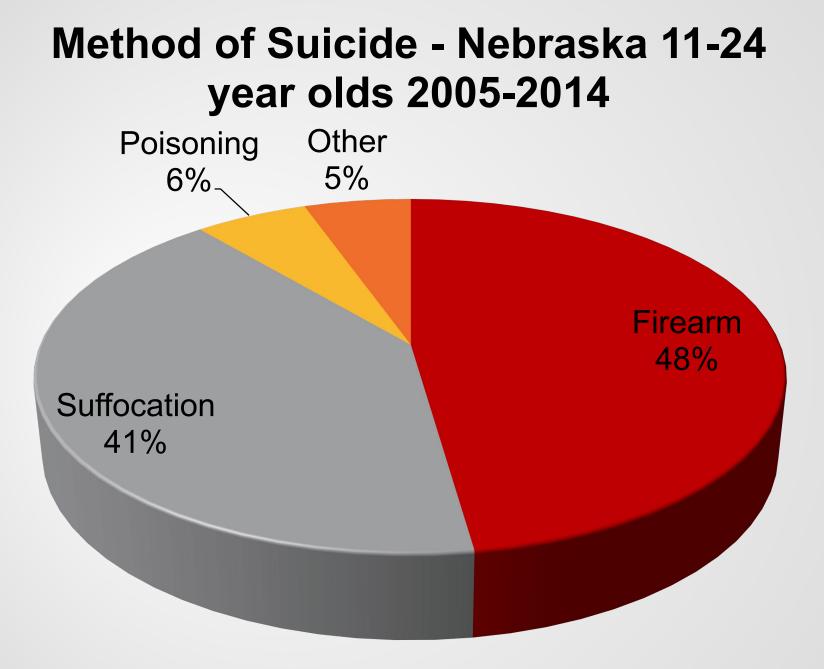
2005- 2014 Nebraska Suicide Rate: 10-24 Year Olds by Race



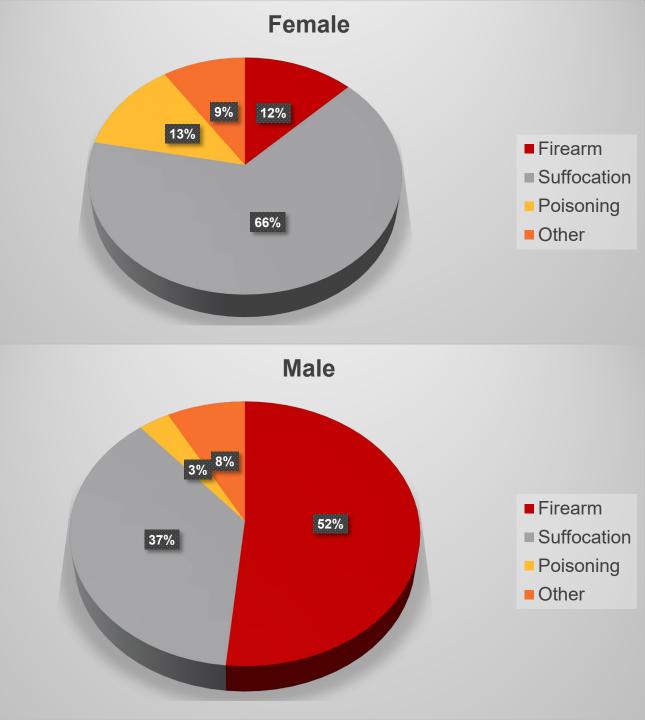
Anderson et al. (2015) reported higher national YRBS response rates for African American youth

Non-Response Rate for Suicide Attempt by Race – NE YRBS 2014



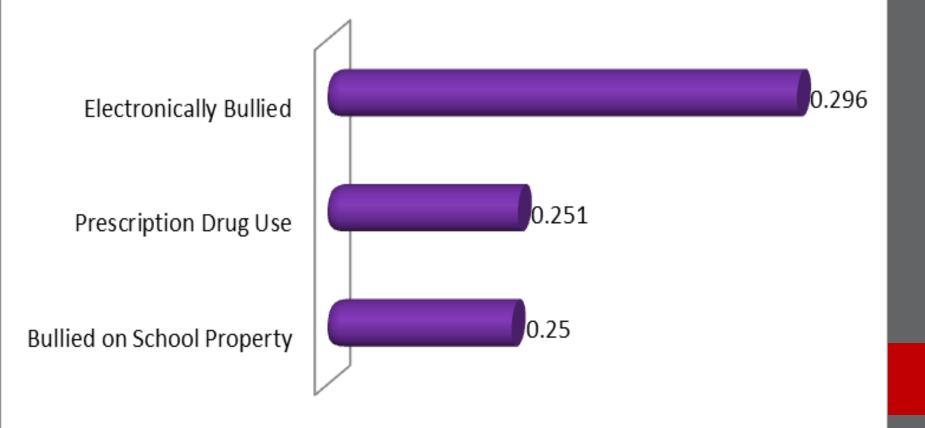


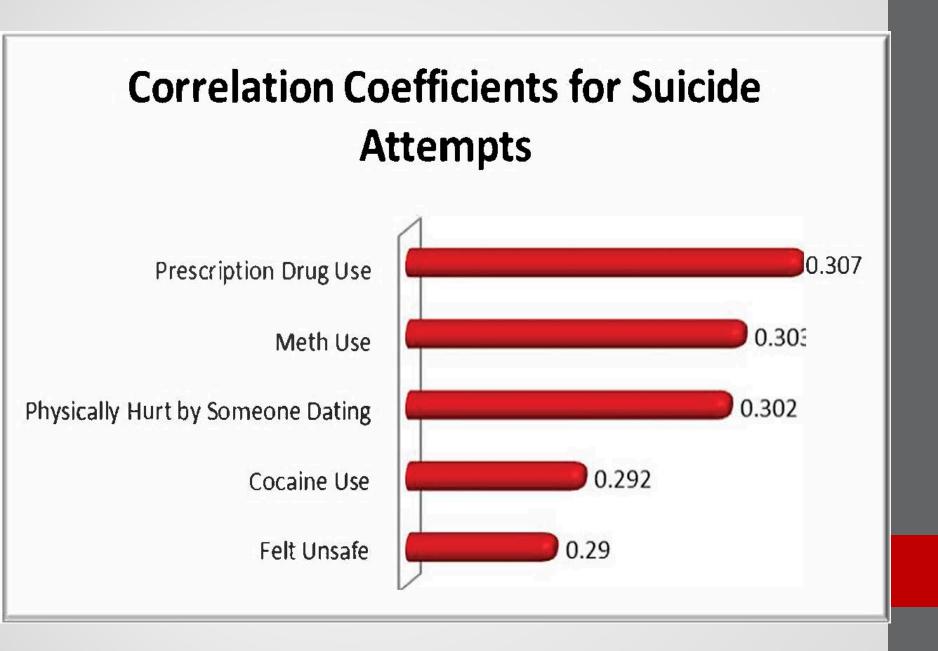
Nebraska Suicides Ages 11-24 2010-2014 by Gender and Method



Correlation Coefficients	Sad &	Seriously			Attempt &
	Hopeless	consider	Plan	Attempt	treatment
1. Age	003	004	024	.029	.119
2. Gender	.159*	.087*	.092*	.042	084
3. BMI	012	.036	.043	.074*	.215*
4. 30 day drinking and driving	.003	.014	.001	.011	.025
5. 30 day felt unsafe	.195*	.180*	.198*	.290*	.217*
6. 1 year someone threatened or injured	.108*	.135*	.122*	.196*	.192*
7. 1 year physical fight	.126*	.149*	.129*	.275*	.262*
8. Ever forced to have sex	.204*	.195*	.218*	.196*	.161*
9. 1 yr physically hurt by someone dating	.230*	.218*	.172*	.302*	1.71
10. 1 year bullied on school property	.250*	.215*	.159*	.118*	.087*
11. 1 year electronically bullied	.296*	.248*	.250*	.192*	.165*
12. Lifetime cigarette use	.232*	.240*	.196*	.198*	.204*
13. 30 day cigarette use	.196*	.179*	.155*	.252*	.276*
14. lifetime alcohol use	.192*	.208*	.158*	.207*	.181*
15. 30 day binge drinking	.122*	.146*	.144*	.187*	.179*
16. Lifetime marijuana use	.232*	.204*	.181*	.243*	.211*
17. Lifetime cocaine use	.096*	.105*	.063*	.292*	.257*
18. Lifetime inhalant use	.155*	.188*	.181*	.256*	.180*
19. Lifetime heroin use	.077*	.112*	.066*	.246*	.153*
20. Lifetime methamphetamine use	.074*	.097*	.042	.303*	.245*
21. Lifetime ecstasy use	.098*	.118*	.101*	.275*	.189*
22. Lifetime synthetic marijuana use	.164*	.184*	.093*	.271*	.259*
23. Lifetimes steroid use	.062*	.134*	.064*	.194*	.171*
24. Lifetime prescription drug use	.251*	.261*	.227*	.307*	.268*
25. Age of sexual intercourse	.112*	.124*	.078*	.136*	.155*
26. Perception of weight	.055*	.024	.031	.062*	.069*
27. Physical activity	146*	138*	-156*	121*	120*
28. Sleep	223*	173*	-157*	194*	153*
29. Grades	.115*	.127*	.125*	.161*	.154*

Correlation Coefficients for Feeling Sad and Hopeless





Correlation Coefficients	Sad &	Seriously			Attempt &
Females	Hopeless	consider	Plan	Attempt	treatment
	(26.2)	(27.2)	(28.2)	(29)	(30.4)
1. Age (1)	017	.017	023	013	.032
2. Grades (89.2)	207**	199**	156**	201**	119**
3. Sleep (88)	156**	179**	130**	207**	074
4. Physical activity (80)	163**	142**	181**	092**	084*
5. BMI (bmipct)	.015	.047	.073*	.050	.082*
6. Perception of weight (69)	.066	.019	.038	.046	.079*
7. Age of sexual intercourse (61)	.154**	.156**	.104**	.133**	.131**
8. 30 day drinking and driving (11.2)	.067	.069	.044	.071	.117**
9. 30 day carry weapon at school (15)	.123**	.176**	.186**	.252**	.082*
10. 30 day felt unsafe (16)	.261**	.254**	.216**	.279**	.159**
11. 1 year someone threatened or injured	.152**	.200**	.203**	.267**	.277**
(17)					
12. 1 year physical fight (18)	.214**	.215**	.167**	.314**	.261**
13. Ever forced to have sex (21.3)	.211**	.229**	.184**	.170**	.125**
14. 1 year physically hurt by someone dating	.257**	.317**	.237**	.345**	.268**
(22.2)					
15. 1 year bullied on school property (24.2)	.286**	.267**	.192**	.176**	.113**
16. 1 year electronically bullied (25.2)	.306**	.243**	.218**	.207**	.162**
17. Lifetime cigarette use (31.2)	.283**	.287**	.209**	.218**	.166**
18. 30 day cigarette use (33)	.237**	.206**	.120**	.228**	.232**
19. lifetime alcohol use (41)	.244**	.256**	.171**	.221**	.168**
20. 30 day binge drinking (44)	.210**	.212**	.177**	.239**	.182**
21. Lifetime marijuana use (47)	.293**	.253**	.194**	.277**	.156**
22. Lifetime cocaine use (50)	.119**	.149**	.024	.220**	.257**
23. Lifetime inhalant use (51)	.170**	.238**	.177**	.267**	.142**
24. Lifetime heroin use (52)	.087*	.171**	.056	.257**	.220**
25. Lifetime methamphetamine use (53)	.121**	.149**	.040	.293**	.293**
26. Lifetime ecstasy use (54)	.156**	.169**	.105**	.195**	.039
27. Lifetime synthetic marijuana use (55)	.240**	.251**	.078*	.245**	.257**
28. Lifetime steroid use (56)	.093*	.157**	.046	.138**	.137**
29. Lifetime prescription drug use (57)	.299**	.346**	.244**	.393**	.306**

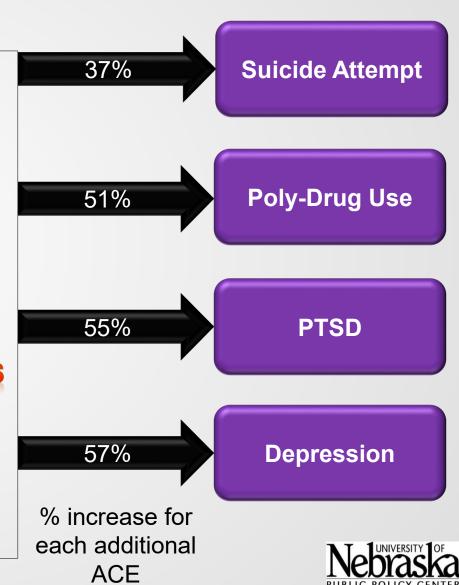
Correlation Coefficients	Sad &	Seriously			Attempt &
Males	Hopeless	consider	Plan	Attempt	treatment
	(26.2)	(27.2)	(28.2)	(29)	(30.4)
1. Age (1)	.023	024	021	.083*	.049
2. Grades (89.2)	087*	107**	146**	195**	159**
3. Sleep (88)	287**	154**	176**	150**	132**
4. Physical activity (80)	090*	120**	110**	148**	113**
5. BMI (bmipct)	027	.035	.018	.111**	.099*
6. Perception of weight (69)	008	.002	007	.098*	.088*
7. Age of sexual intercourse (61)	.054	.082*	.041	.138**	.101*
8. 30 day drinking and driving (11.2)	.049	.071	.106**	.056	012
9. 30 day carry weapon at school (15)	.045	.128**	.129**	.052	.043
10. 30 day felt unsafe (16)	.126**	.096**	.180**	.294**	.169**
11. 1 year someone threatened or injured (17)	.093*	.082*	.062	.079*	.021
12. 1 year physical fight (18)	.094*	.119**	.126**	.246**	.155**
13. Ever forced to have sex (21.3)	.146**	.108**	.248**	.250**	.081*
14. 1 year physically hurt by someone dat (22.2)	ing .084*	.081*	.122**	.324**	.281**
15. 1 year bullied on school property (24.2	2) .193**	.137**	.110**	.030	.001
16. 1 year electronically bullied (25.2)	.235**	.229**	.272**	.160**	.040
17. Lifetime cigarette use (31.2)	.165**	.180**	.176**	.161**	.095*
18. 30 day cigarette use (33)	.160**	.150**	.192**	.260**	.225**
19. lifetime alcohol use (41)	.126**	.153**	.142**	.174**	.052
20. 30 day binge drinking (44)	.048	.091*	.122**	.142**	.093*
21. Lifetime marijuana use (47)	.187**	.162**	.174**	.191**	.119**
22. Lifetime cocaine use (50)	.075*	.061	.111**	.352**	.163**
23. Lifetime inhalant use (51)	.134**	.125**	.185**	.236**	.049
24. Lifetime heroin use (52)	.079*	.060	.083*	.234**	.112**
25. Lifetime methamphetamine use (53)	.036	.047	.046	.232**	.177**
26. Lifetime ecstasy use (54)	.050	.076*	.103**	.362**	.204**
27. Lifetime synthetic marijuana use (55)	.097**	.121**	.116**	.283**	.244**
28. Lifetime steroid use (56)	.023	.110**	.088*	.264**	.157**
29. Lifetime prescription drug use (57)	.202**	.170**	.214**	.176**	.143**

Native American Youth Risk Study*



ABUSE

- PHYSICAL
- EMOTIONAL
- SEXUAL
- NEGLECT
- PHYSICAL
- EMOTIONAL
- **HOUSEHOLD CHALLENGES**
- DOMESTIC ABUSE
- SUBSTANCE ABUSE
- MENTAL ILLNESS
- SEPARATION/DIVORCE
- INCARCERATION



*Brockie et. al. 2016

