

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
<b>School Health Coordination</b>														
Percentage of schools that ever used the School Health Index or other self-assessment tool to assess school policies, activities, and programs in the following areas:														
Nutrition						43.9	56.7	46.9	52.6	56.8	55.3	Increased, 2008-2018	No quadratic change	No change
Tobacco-use prevention						48.7	58.3	51.8	52.5	49.2	55.9	No linear change	No quadratic change	Increased
Unintentional injury and violence prevention (safety)						45.4	41.2	47.7	45.0	50.7	Increased, 2010-2018	Not available	Increased	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools with a School Improvement Plan that includes health-related objectives on the following topics:														
Health education						43.2	40.4	42.5	49.6	49.5		Increased, 2010-2018	Not available	No change
Physical education									42.1	49.6	46.9	Increased, 2014-2018	Not available	No change
Physical activity									36.9	43.1	41.2	Increased, 2014-2018	Not available	No change
School meal programs									39.8	50.2	47.4	Increased, 2014-2018	Not available	Decreased
Foods and beverages available at school outside the school meal programs									34.4	40.0	40.0	Increased, 2014-2018	Not available	No change
Health services						33.1	36.1	32.0	38.7	37.4		Increased, 2010-2018	Not available	No change
Counseling, psychological, and social services										51.9	48.4	Decreased, 2016-2018	Not available	Decreased
Physical environment										52.0	52.7	No linear change	Not available	No change

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools with a School Improvement Plan that includes health-related objectives on the following topics:														
Social and emotional climate										58.7	58.6	No linear change	Not available	No change
Family engagement										65.2	66.1	No linear change	Not available	No change
Community involvement										64.9	62.7	No linear change	Not available	No change
Employee wellness										40.3	42.9	No linear change	Not available	No change
Percentage of schools that reviewed health and safety data as part of school's improvement planning process*								76.1	81.3	77.3	76.7	No linear change	Not available	No change
Percentage of schools that currently have someone who oversees or coordinates school health and safety programs and activities						94.4	84.7	87.7	84.9	90.1	92.7	No linear change	Decreased, 2008-2014 Increased, 2014-2018	Increased

\* Among schools that engaged in an improvement planning process during the past year.

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that have one or more than one group (e.g., a school health council, committee, team) that offers guidance on the development of policies or coordinates activities on health topics					61.1	66.6	53.2	46.8	54.0	55.4	50.8	Decreased, 2006-2018	Decreased, 2006-2012 Increased, 2012-2018	Decreased
Percentage of schools that have a school health council, committee, or team that did the following activities during the past year:*														
Identified student health needs based on a review of relevant data								55.9	62.7	65.0	66.3	Increased, 2012-2018	Not available	No change
Recommended new or revised health and safety policies and activities to school administrators or the school improvement team								67.2	66.1	75.3	74.0	Increased, 2012-2018	Not available	No change
Sought funding or leveraged resources to support health and safety priorities for students and staff								53.8	52.6	54.8	65.9	Increased, 2012-2018	Not available	Increased

\* Among schools that have one or more than one group that offers guidance on the development of policies or coordinates activities on health topics.

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that have a school health council, committee, or team that did the following activities during the past year:*														
Communicated the importance of health and safety policies and activities to district administrators, school administrators, parent-teacher groups, or community members							75.0	75.3	83.9	86.2		Increased, 2012-2018	Not available	No change
Reviewed health-related curricula or instructional materials							75.8	70.7	78.0	81.3		Increased, 2012-2018	Not available	Increased
Assessed the availability of physical activity opportunities for students								69.7	78.7	79.7		Increased, 2014-2018	Not available	No change
Developed a written plan for implementing a Comprehensive School Physical Activity Program (a multi-component approach that provides opportunities for students to be physically active before, during, and after school)										29.1	29.8	No linear change	Not available	No change

\* Among schools that have one or more than one group that offers guidance on the development of policies or coordinates activities on health topics.

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
<b>School Connectedness</b>														
Percentage of schools that have any clubs that give students opportunities to learn about people different from them, such as students with disabilities, homeless youth, or people from different cultures									39.7	41.0	52.3	Increased, 2014-2018	Not available	Increased
Percentage of schools that offer each of the following activities for students to learn about people different from them, such as students with disabilities, homeless youth, or people from different cultures:														
Lessons in class									85.8	88.2	93.1	Increased, 2014-2018	Not available	Increased
Special events sponsored by the school or community organizations (e.g., multicultural week, family night)									51.8	55.5	64.4	Increased, 2014-2018	Not available	Increased

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
<b>Sexual Orientation</b>														
Percentage of schools that have a student-led club that aims to create a safe, welcoming, and accepting school environment for all youth, regardless of sexual orientation or gender identity						13.4	23.4	19.8	16.4	18.0	21.6	Increased, 2008-2018	No quadratic change	Increased
Percentage of schools that engage in the following LGBTQ youth-related practices:														
Identify “safe spaces” (e.g., a counselor’s office, designated classroom, or student organization) where LGBTQ youth can receive support from administrators, teachers, or other school staff						42.1	40.6	51.2	59.9	72.6	Increased, 2010-2018	Not available	Increased	
Prohibit harassment based on a student’s perceived or actual sexual orientation or gender identity						86.2	83.3	85.2	90.5	93.6	Increased, 2010-2018	Not available	Increased	

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that engage in the following LGBTQ youth-related practices:														
Encourage staff to attend professional development on safe and supportive school environments for all students, regardless of sexual orientation or gender identity						56.5	55.5	60.6	62.3	71.7	Increased, 2010-2018	Not available	Increased	
Facilitate access to providers not on school property who have experience in providing health services, including HIV/STD testing and counseling, to LGBTQ youth						37.8	44.4	46.5	43.5	46.6	Increased, 2010-2018	Not available	Increased	
Facilitate access to providers not on school property who have experience in providing social and psychological services to LGBTQ youth						41.3	42.3	45.4	48.2	51.9	Increased, 2010-2018	Not available	Increased	
LGBTQ. Percentage of schools that implement HIV, other STD, and pregnancy prevention strategies that meet the needs of lesbian, gay, bisexual, transgender, and questioning (LGBTQ) youth						2.2	5.5	5.4	7.5	11.6	Increased, 2010-2018	Not available	Increased	

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
<b>Bullying and Sexual Harassment</b>														
Percentage of schools in which staff received professional development on preventing, identifying, and responding to student bullying and sexual harassment, including electronic aggression									71.9	69.8	76.4	Increased, 2014-2018	Not available	Increased
Percentage of schools that have a designated staff member to whom students can confidentially report student bullying and sexual harassment, including electronic aggression									96.4	94.4	96.7	No linear change	Not available	Increased
Percentage of schools that use electronic, paper, or oral communication to publicize and disseminate policies, rules, or regulations on bullying and sexual harassment, including electronic aggression									92.1	91.6	88.9	Decreased, 2014-2018	Not available	Decreased
SSE PM 4. Percentage of schools that prevent bullying and sexual harassment, including electronic aggression, among all students									39.7	37.5	34.1	Decreased, 2014-2018	Not available	Decreased

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
<b>Required Physical Education</b>														
Percentage of schools that taught required physical education in the following grades:*														
6th grade				98.3	96.0	100.0	98.6	100.0	100.0	100.0	100.0	Increased, 2004-2018	†	¶
7th grade				99.5	96.1	99.3	99.4	100.0	100.0	99.2	100.0	Increased, 2004-2018	†	Increased
8th grade				99.5	97.8	99.3	99.4	100.0	100.0	100.0	100.0	Increased, 2004-2018	†	¶
9th grade				99.5	100.0	98.7	98.5	99.3	99.2	100.0	100.0	Increased, 2004-2018	†	¶

\* Among schools with students in that grade. The results published here for 2012 and prior years may not match previously published numbers because the manner in which these were calculated changed in 2014.

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† Analysis cannot be conducted when prevalence estimates of 0% or 100% are present.

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that taught required physical education in the following grades:*														
10th grade				96.1	95.7	96.1	98.5	95.4	94.8	91.1	88.7	Decreased, 2004-2018	Increased, 2004-2010 Decreased, 2010-2018	Decreased
11th grade				12.1	13.0	14.5	18.1	18.9	15.7	18.3	13.8	Increased, 2004-2018	Increased, 2004-2012 Decreased, 2012-2018	Decreased
12th grade				12.1	11.7	13.8	18.1	18.9	14.8	18.3	13.0	Increased, 2004-2018	Increased, 2004-2012 Decreased, 2012-2018	Decreased

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<b>Physical Education and Physical Activity</b>														
Percentage of schools in which physical education teachers or specialists received professional development on physical education or physical activity during the past year									77.9	84.7	84.3	Increased, 2014-2018	Not available	No change
Percentage of schools in which those who teach physical education are provided with the following materials:														
Goals, objectives, and expected outcomes for physical education					96.7	95.5	95.0	93.1	94.1	93.9	Decreased, 2008-2018	Decreased, 2008-2014 No change, 2014-2018	No change	
A chart describing the annual scope and sequence of instruction for physical education					79.3	81.5	74.3	72.5	73.7	71.8	Decreased, 2008-2018	No quadratic change	No change	
Plans for how to assess student performance in physical education					73.4	76.7	74.7	78.9	81.0	82.3	Increased, 2008-2018	No quadratic change	No change	
A written physical education curriculum					95.4	90.7	90.3	87.5	88.2	85.0	Decreased, 2008-2018	Decreased, 2008-2012 Decreased, 2012-2018	Decreased	
Resources for fitness testing									92.0	91.0	92.7	No linear change	Not available	Increased
Physical activity monitoring devices, such as pedometers or heart rate monitors, for physical education									64.6	63.0	60.1	Decreased, 2014-2018	Not available	Decreased

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which students participate in physical activity breaks in classrooms during the school day outside of physical education							38.5	39.6	44.8	53.7	Increased, 2012-2018	Not available	Increased	
Percentage of schools that offer opportunities for all students to participate in intramural sports programs or physical activity clubs					68.5	61.1	53.8	61.2	53.7	60.4	Decreased, 2008-2018	Decreased, 2008-2012 Increased, 2012-2018	Increased	
Percentage of schools that offer interscholastic sports to students							93.4	91.7	95.2	95.6	Increased, 2012-2018	Not available	No change	
Percentage of schools that offer opportunities for students to participate in physical activity before the school day through organized physical activities or access to facilities or equipment for physical activity								58.2	62.1	74.0	Increased, 2014-2018	Not available	Increased	
Percentage of schools that have a joint use agreement for shared use of school or community physical activity facilities							54.5	61.7	51.5	61.9	Increased, 2012-2018	Not available	Increased	
CSPAP (2.6.03). Percentage of schools that have established, implemented, or evaluated CSPAP								2.9	1.1	3.0	No linear change	Not available	Increased	

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
<b>Tobacco-Use Prevention Policies</b>														
Percentage of schools that have adopted a policy prohibiting tobacco use			100.0	99.4	100.0	100.0	98.4	99.2	100.0	100.0	100.0	No linear change	†	¶
Percentage of schools that prohibit tobacco use by students, staff, and visitors in school buildings, at school functions, in school vehicles, on school grounds, and at off-site school events, applicable 24 hours a day and seven days a week			28.7	30.4	53.8	54.9	50.3	61.1	60.3	60.5	67.8	Increased, 2002-2018	Increased, 2002-2006 Increased, 2006-2018	Increased
Percentage of schools that post signs marking a tobacco-free school zone, that is, a specified distance from school grounds where tobacco use is not allowed					93.2	90.9	92.2	92.7	92.5	96.8	91.6	Increased, 2006-2018	No quadratic change	Decreased

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
<b>Nutrition-Related Policies and Practices</b>														
Percentage of schools that always or almost always offer fruits or non-fried vegetables at school celebrations when foods or beverages are offered						23.9	29.6	29.2	34.7	30.6	38.8	Increased, 2008-2018	No quadratic change	Increased
Percentage of schools in which students can purchase snack foods or beverages from one or more vending machines at the school or at a school store, canteen, or snack bar			87.7	88.8	87.3	80.5	79.1	82.4	80.0	73.8	75.9	Decreased, 2002-2018	No quadratic change	No change
Percentage of schools in which students can purchase the following snack foods or beverages from one or more vending machines at the school or at a school store, canteen, or snack bar:														
Chocolate candy			56.9	53.3	52.2	36.2	36.8	39.9	38.4	15.1	21.3	Decreased, 2002-2018	Decreased, 2002-2014 Decreased, 2014-2018	Increased
Other kinds of candy			59.5	54.9	55.2	38.4	41.1	44.6	43.2	20.4	22.9	Decreased, 2002-2018	Decreased, 2002-2014 Decreased, 2014-2018	Increased
Salty snacks that are not low in fat (e.g., regular potato chips)			52.7	47.4	49.9	35.4	33.7	37.5	36.3	21.1	25.0	Decreased, 2002-2018	No quadratic change	Increased

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which students can purchase the following snack foods or beverages from one or more vending machines at the school or at a school store, canteen, or snack bar:														
Low sodium or “no added salt” pretzels, crackers, or chips									47.8	47.0	52.9	Increased, 2014-2018	Not available	Increased
Cookies, crackers, cakes, pastries, or other baked goods that are not low in fat						38.0	45.3	46.0	36.4	21.9	24.5	Decreased, 2008-2018	Increased, 2008-2012 Decreased, 2012-2018	Increased
Ice cream or frozen yogurt that is not low in fat						9.8	12.8	8.6	4.5	4.4	5.4	Decreased, 2008-2018	No quadratic change	No change
2% or whole milk (plain or flavored)					23.9	27.0	28.8	20.8	16.2	14.5	15.5	Decreased, 2006-2018	Increased, 2006-2010 Decreased, 2010-2018	No change
Nonfat or 1% (low-fat) milk (plain)									23.1	21.4	24.8	No linear change	Not available	Increased
Water ices or frozen slushes that do not contain juice						14.2	12.9	11.6	11.1	8.7	10.4	Decreased, 2008-2018	No quadratic change	Increased
Soda pop or fruit drinks that are not 100% juice					71.3	46.5	43.1	50.5	44.6	30.8	27.5	Decreased, 2006-2018	Decreased, 2006-2014 Decreased, 2014-2018	Decreased

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Percentage of schools in which students can purchase the following snack foods or beverages from one or more vending machines at the school or at a school store, canteen, or snack bar:															
Sports drinks (e.g., Gatorade)					85.3	75.5	71.4	73.8	65.9	54.7	52.4	Decreased, 2006-2018	No quadratic change	No change	
Energy drinks (e.g., Red Bull, Monster)										6.7	4.9	4.3	Decreased, 2014-2018	Not available	No change
100% fruit or vegetable juice										55.9	51.5	46.8	Decreased, 2014-2018	Not available	Decreased
Foods or beverages containing caffeine					40.0	42.8	43.3	37.2	30.8	29.1	Decreased, 2008-2018	Increased, 2008-2012 Decreased, 2012-2018	No change		
Fruits (not fruit juice)					21.0	27.7	31.1	24.7	23.4	20.2	Decreased, 2008-2018	Increased, 2008-2012 Decreased, 2012-2018	Decreased		
Non-fried vegetables (not vegetable juice)					12.4	11.7	16.8	14.0	10.1	14.3	No linear change	No quadratic change	Increased		

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that have done any of the following during the current school year:														
Priced nutritious foods and beverages at a lower cost while increasing the price of less nutritious foods and beverages						10.6	7.5	9.4	9.0	10.3	12.5	Increased, 2008-2018	No change, 2008-2014 Increased, 2014-2018	Increased
Collected suggestions from students, families, and school staff on nutritious food preferences and strategies to promote healthy eating						55.6	50.9	45.5	42.1	43.0	41.5	Decreased, 2008-2018	Decreased, 2008-2014 No change, 2014-2018	No change
Provided information to students or families on the nutrition and caloric content of foods available						47.6	33.1	39.6	52.4	44.5	38.3	No linear change	No quadratic change	Decreased
Conducted taste tests to determine food preferences for nutritious items						6.1	12.3	16.4	18.9	19.6	23.5	Increased, 2008-2018	Increased, 2008-2012 Increased, 2012-2018	Increased
Provided opportunities for students to visit the cafeteria to learn about food safety, food preparation, or other nutrition-related topics						19.1	23.9	26.3	30.1	27.3	33.9	Increased, 2008-2018	No quadratic change	Increased
Served locally or regionally grown foods in the cafeteria or classrooms								50.7	58.9	50.0	63.8	Increased, 2012-2018	Not available	Increased

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that have done any of the following during the current school year:														
Planted a school food or vegetable garden							21.5	24.7	25.8	35.6		Increased, 2012-2018	Not available	Increased
Placed fruits and vegetables near the cafeteria cashier, where they are easy to access							51.9	61.9	59.2	74.2		Increased, 2012-2018	Not available	Increased
Used attractive displays for fruits and vegetables in the cafeteria							57.7	65.7	65.0	72.2		Increased, 2012-2018	Not available	Increased
Offered a self-serve salad bar to students							70.0	75.3	76.9	85.0		Increased, 2012-2018	Not available	Increased
Labeled healthful foods with appealing names (e.g., crunchy carrots)							21.2	29.3	29.7	42.6		Increased, 2012-2018	Not available	Increased
Encouraged students to drink plain water								79.6	83.4	90.2		Increased, 2014-2018	Not available	Increased
Prohibited school staff from giving students food or food coupons as a reward for good behavior or good academic performance								13.3	23.8	19.4		Increased, 2014-2018	Not available	Decreased
Prohibited less nutritious foods and beverages (e.g., candy, baked goods) from being sold for fundraising purposes								16.4	28.9	28.7		Increased, 2014-2018	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that prohibit advertisements for candy, fast food restaurants, or soft drinks in the following locations:														
In school buildings					51.1	51.9	49.7	46.3	57.5	62.7	Increased, 2008-2018	Decreased, 2008-2014 Increased, 2014-2018	Increased	
On school grounds including on the outside of the school building, on playing fields, or other areas of the campus					45.3	47.0	43.2	45.5	48.9	55.4	Increased, 2008-2018	No change, 2008-2014 Increased, 2014-2018	Increased	
On school buses or other vehicles used to transport students					70.9	63.7	59.7	61.6	62.3	69.4	No linear change	Decreased, 2008-2012 Increased, 2012-2018	Increased	
In school publications (e.g., newsletters, newspapers, web sites, other school publications)					55.2	56.2	49.3	51.6	57.1	65.1	Increased, 2008-2018	Decreased, 2008-2012 Increased, 2012-2018	Increased	
In curricula or other educational materials (including assignment books, school supplies, book covers, and electronic media)								55.6	59.9	66.2	Increased, 2014-2018	Not available	Increased	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that permit students to have a drinking water bottle with them in either all locations or certain locations during the school day							98.1	96.8	97.0	99.6		Increased, 2012-2018	Not available	Increased
Percentage of schools that offer a free source of drinking water in the following locations:*														
Cafeteria during breakfast								92.2	90.7	90.6		No linear change	Not available	No change
Cafeteria during lunch								93.7	91.5	91.0		Decreased, 2014-2018	Not available	No change
Gymnasium or other indoor physical activity facilities								97.9	97.2	96.4		Decreased, 2014-2018	Not available	No change
Outdoor physical activity facilities and sports fields								82.3	64.9	72.3		Decreased, 2014-2018	Not available	Increased
Hallways throughout the school								98.3	99.2	98.0		No linear change	Not available	Decreased

\* Among schools with that location.

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
SSNE 1 (2.3.04). Percentage of schools that do not sell less healthy foods and beverages (soda pop or fruit drinks, sports drinks, baked goods, salty snacks, candy)						21.1	25.8	19.8	24.8	40.0	39.6	Increased, 2008-2018	No change, 2008-2012 Increased, 2012-2018	No change
SSNE 2 (2.3.06). Percentage of schools that prohibit all forms of advertising and promotion for candy, fast food restaurants, and soft drinks									34.2	40.6	44.4	Increased, 2014-2018	Not available	Increased
SSNE 3 (2.3.07). Percentage of schools that price nutritional foods and beverages at a lower cost while increasing the price of less nutritious foods and beverages						10.6	7.5	9.4	9.0	10.3	12.5	Increased, 2008-2018	No change, 2008-2014 Increased, 2014-2018	Increased
SSNE 4 (2.3.08). Percentage of schools that provide information to students or families on the nutrition, caloric, and sodium content of foods available						47.6	33.1	39.6	52.4	44.5	38.3	No linear change	No quadratic change	Decreased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
SSNE 5 (2.3.09). Percentage of schools that place fruits and vegetables near the cafeteria cashier, where they are easy to access							51.9	61.9	59.2	74.2		Increased, 2012-2018	Not available	Increased
SSNE 6 (2.3.10). Percentage of schools that allow students to have access to drinking water								76.3	60.7	67.4		Decreased, 2014-2018	Not available	Increased
SSNE 7 (2.3.11). Percentage of schools that offer fruits or non-fried vegetables when foods or beverages are offered at school celebrations						23.9	29.6	29.2	34.7	30.6	38.8	Increased, 2008-2018	No quadratic change	Increased
SSNE 8 (2.3.12). Percentage of schools that allow students to purchase fruits and vegetables from vending machines or at the school store, canteen, or snack bar					10.7	11.3	15.7	12.7	10.1	13.0		No linear change	Increased, 2008-2012 Decreased, 2012-2018	Increased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
<b>Health Services</b>														
Percentage of schools that have a full-time registered nurse who provides health services to students						16.2	11.9	14.9	15.2	15.5	14.2	No linear change	No quadratic change	No change
Percentage of schools that have a part-time registered nurse who provides health services to students										41.8	46.3	Increased, 2016-2018	Not available	Increased
Percentage of schools that have a school-based health center that offers health services to students										9.5	11.3	Increased, 2016-2018	Not available	Increased
Percentage of schools that provide the following services to students:														
HIV testing								5.5	0.4	0.4	1.6	Decreased, 2012-2018	Not available	Increased
HIV treatment									0.4	0.0	1.6	Increased, 2014-2018	Not available	Increased
STD testing									0.4	0.4	2.0	Increased, 2014-2018	Not available	Increased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.



# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>	
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018				
Percentage of schools that provide the following services to students:															
STD treatment									0.4	0.0	1.6	Increased, 2014-2018	Not available	Increased	
Pregnancy testing							3.8	2.9	1.5	2.9		Decreased, 2012-2018	Not available	Increased	
Provision of condoms							2.6	1.3	1.6	3.3		No linear change	Not available	Increased	
Provision of condom-compatible lubricants (i.e., water- or silicone-based)									1.3	1.2	2.9	Increased, 2014-2018	Not available	Increased	
Provision of contraceptives other than condoms (e.g., birth control pill, birth control shot, intrauterine device [IUD])							2.3	0.4	0.0	1.6		Decreased, 2012-2018	Not available	Increased	
Prenatal care							3.7	3.8	0.0	0.8		Decreased, 2012-2018	Not available	Increased	
Human papillomavirus (HPV) vaccine administration							5.7	4.9	4.4	6.5		No linear change	Not available	Increased	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>	
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018				
Percentage of schools that provide students with referrals to any organizations or health care professionals not on school property for the following services:															
HIV testing							44.6	46.4	31.2	37.9	Decreased, 2012-2018	Not available	Increased		
HIV treatment								45.1	33.8	44.0	No linear change	Not available	Increased		
nPEP (non-occupational post-exposure prophylaxis for HIV-- a short course of medication given within 72 hours of exposure to infectious bodily fluids from a person known to be HIV positive)									32.8	39.6	Increased, 2016-2018	Not available	Increased		
STD testing								48.4	31.5	38.0	Decreased, 2014-2018	Not available	Increased		
STD treatment								46.3	28.5	37.0	Decreased, 2014-2018	Not available	Increased		
Pregnancy testing							45.6	51.2	31.8	38.3	Decreased, 2012-2018	Not available	Increased		

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that provide students with referrals to any organizations or health care professionals not on school property for the following services:														
Provision of condoms							33.5	39.6	26.5	32.2		Decreased, 2012-2018	Not available	Increased
Provision of condom-compatible lubricants (i.e., water- or silicone-based)								37.3	24.7	28.9		Decreased, 2014-2018	Not available	Increased
Provision of contraceptives other than condoms (e.g., birth control pill, birth control shot, intrauterine device [IUD])							35.4	40.1	27.4	32.7		Decreased, 2012-2018	Not available	Increased
Prenatal care							43.5	47.8	29.2	34.7		Decreased, 2012-2018	Not available	Increased
Human papillomavirus (HPV) vaccine administration							40.1	43.9	38.1	44.4		No linear change	Not available	Increased
Percentage of schools that have a protocol that ensures students with a chronic condition that may require daily or emergency management (e.g., asthma, diabetes, food allergies) are enrolled in private, state, or federally funded insurance programs if eligible								60.6	64.3	52.3		Decreased, 2014-2018	Not available	Decreased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that routinely use school records to identify and track students with a current diagnosis of the following chronic conditions:														
Asthma									94.1	95.5	93.5	No linear change	Not available	Decreased
Food allergies									94.5	95.5	93.9	No linear change	Not available	Decreased
Diabetes									94.6	93.9	92.8	Decreased, 2014-2018	Not available	No change
Epilepsy or seizure disorder									93.1	95.5	92.4	No linear change	Not available	Decreased
Obesity									30.3	25.0	32.9	No linear change	Not available	Increased
Hypertension/high blood pressure									51.5	50.0	50.9	No linear change	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that provide referrals to any organizations or health care professionals not on school property for students diagnosed with or suspected to have the following chronic conditions:														
Asthma									57.8	50.4	53.3	Decreased, 2014-2018	Not available	Increased
Food allergies									57.0	48.9	51.2	Decreased, 2014-2018	Not available	No change
Diabetes									57.8	50.0	52.4	Decreased, 2014-2018	Not available	No change
Epilepsy or seizure disorder									56.1	49.6	51.6	Decreased, 2014-2018	Not available	No change
Obesity									41.1	33.9	39.8	No linear change	Not available	Increased
Hypertension/high blood pressure									49.8	41.8	43.9	Decreased, 2014-2018	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>	
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018				
Percentage of schools with the following practices regarding parental consent and notification when sexual or reproductive health services are provided:															
School does not provide any sexual or reproductive health services											88.6	85.8	Decreased, 2016-2018	Not available	Decreased
Parental consent is required before any sexual or reproductive health services are provided											8.7	8.2	No linear change	Not available	No change
Parental consent is not required for sexual or reproductive health services and parents are provided with information about services provided only upon request											1.6	1.7	No linear change	Not available	No change
Parental consent is not required for sexual or reproductive health services, but parents may be notified depending on the service provided											0.0	1.8	Increased, 2016-2018	Not available	Increased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools with the following practices regarding parental consent and notification when sexual or reproductive health services are provided:														
Parental consent is not required for sexual or reproductive health services, but parents are notified about all services provided										0.8	0.9	No linear change	Not available	No change
Parental consent is not required for sexual or reproductive health services and parents are not notified about any services provided										0.4	1.7	Increased, 2016-2018	Not available	Increased
Percentage of schools with the following practices regarding parental consent and notification when sexual or reproductive health services are referred:														
School does not refer any sexual or reproductive health services										61.0	55.6	Decreased, 2016-2018	Not available	Decreased
Parental consent is required before any sexual or reproductive health services are referred										19.6	20.9	No linear change	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools with the following practices regarding parental consent and notification when sexual or reproductive health services are referred:														
Parental consent is not required for sexual or reproductive health services and parents are provided with information about referrals provided only upon request										4.9	5.1	No linear change	Not available	No change
Parental consent is not required for sexual or reproductive health services, but parents may be notified depending on the referral provided										7.5	11.7	Increased, 2016-2018	Not available	Increased
Parental consent is not required for sexual or reproductive health services, but parents are notified about all referrals provided										1.7	3.1	Increased, 2016-2018	Not available	Increased
Parental consent is not required for sexual or reproductive health services and parents are not notified about any referrals provided										5.2	3.6	Decreased, 2016-2018	Not available	Decreased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.



# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
SHS PM 2. Percentage of schools that provide students with on-site services or referrals to healthcare providers for 7 key sexual health services									35.3	23.9	27.2	Decreased, 2014-2018	Not available	Increased
SWCC_1 (4.5.02). Percentage of schools that identify and track students with chronic conditions that may require daily or emergency management (e.g., asthma, food allergies)									94.9	97.1	93.9	No linear change	Not available	Decreased
SWCC_2 (4.5.05). Percentage of schools that have protocols that ensure students with a chronic condition that may require daily or emergency management are enrolled into private, state, or federally funded insurance programs if eligible									60.6	64.3	52.3	Decreased, 2014-2018	Not available	Decreased
SWCC_3 (4.5.08). Percentage of schools that provide referrals to community-based medical care providers for students identified with chronic conditions or at risk for activity, diet, and weight-related chronic conditions									58.6	50.8	53.7	Decreased, 2014-2018	Not available	Increased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
<b>Family and Community Involvement</b>														
Percentage of schools that have done any of the following activities during the current school year:														
Provided parents and families with information about how to communicate with their child about sex									26.1	18.0	14.1	Decreased, 2014-2018	Not available	Decreased
Provided parents with information about how to monitor their child (e.g., setting parental expectations, keeping track of their child, responding when their child breaks the rules)									49.1	46.3	46.7	No linear change	Not available	No change
Involved parents as school volunteers in the delivery of health education activities and services									34.2	26.0	20.9	Decreased, 2014-2018	Not available	Decreased
Linked parents and families to health services and programs in the community									63.4	61.6	59.1	Decreased, 2014-2018	Not available	No change
Percentage of schools that use electronic, paper, or oral communication to inform parents about school health services and programs									74.9	75.0	67.3	Decreased, 2014-2018	Not available	Decreased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that participate in a program in which family or community members serve as role models to students or mentor students, such as the Big Brothers Big Sisters program									33.5	36.3	35.8	No linear change	Not available	No change
Percentage of schools that provide service-learning opportunities for students									62.4	61.9	64.8	No linear change	Not available	Increased
Percentage of schools that provide peer tutoring opportunities for students									76.1	80.1	76.2	No linear change	Not available	Decreased
Percentage of schools in which students' families helped develop or implement policies and programs related to school health during the past two years									36.1	38.4	34.2	No linear change	Not available	Decreased
SSE PM 5. Percentage of schools that implement school connectedness strategies									74.6	74.6	74.1	No linear change	Not available	No change
SSE PM 6. Percentage of schools that implement parent engagement strategies for all students									48.8	43.0	34.3	Decreased, 2014-2018	Not available	Decreased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
<b>Required Health Education</b>														
Percentage of schools in which students take only one required health education course	14.3	19.5	15.1	11.9	15.5	11.7	7.0	9.8	7.5	12.7	9.4	Decreased, 1998-2018	No quadratic change	Decreased
Percentage of schools in which students take two or more required health education courses	61.7	63.5	75.4	72.5	79.3	86.1	92.4	89.4	90.7	85.1	89.0	Increased, 1998-2018	Increased, 1998-2010 Decreased, 2010-2018	Increased
Percentage of schools that taught a required health education course in the following grades:*														
6th grade	43.1	53.1	59.3	54.0	71.1	75.1	70.7	85.7	72.7	73.8	77.5	Increased, 1998-2018	Increased, 1998-2008 No change, 2008-2018	No change
7th grade	63.8	70.0	83.5	72.9	85.9	91.2	91.2	92.8	91.3	92.1	92.4	Increased, 1998-2018	Increased, 1998-2008 No change, 2008-2018	No change
8th grade	62.2	69.2	83.0	74.1	88.1	90.7	91.0	96.2	92.5	92.1	93.8	Increased, 1998-2018	Increased, 1998-2010 No change, 2010-2018	No change

\* The 2008-2018 results published here may differ slightly from the 2008-2018 results published in site reports. This is because the site reports excluded data from schools that do not contain the grade in the question. Because grade information is not available in a consistent format for all years, data from these schools are included in the trend analysis.

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that taught a required health education course in the following grades:*														
9th grade	60.9	68.7	79.3	72.5	86.1	90.8	95.6	92.9	89.4	91.9	94.4	Increased, 1998-2018	Increased, 1998-2010 No change, 2010-2018	No change
10th grade	60.8	69.0	78.5	68.8	82.4	87.3	92.2	85.1	81.8	81.9	84.4	Increased, 1998-2018	Increased, 1998-2010 Decreased, 2010-2018	No change
11th grade	9.3	7.4	7.1	8.1	8.6	5.5	6.0	8.0	9.1	6.0	7.3	No linear change	No quadratic change	No change
12th grade	10.0	6.0	5.7	6.5	7.3	4.8	3.8	3.4	4.6	4.9	6.1	Decreased, 1998-2018	Decreased, 1998-2012 No change, 2012-2018	No change
Among schools that required a health education course, percentage that required students who fail the course to repeat it				63.8	63.5	66.1	69.8	62.0	63.3	68.8	59.4	No linear change	No change, 2004-2010 No change, 2010-2018	Decreased

\* The 2008-2018 results published here may differ slightly from the 2008-2018 results published in site reports. This is because the site reports excluded data from schools that do not contain the grade in the question. Because grade information is not available in a consistent format for all years, data from these schools are included in the trend analysis.

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the health education curriculum addresses the following skills:														
Comprehending concepts related to health promotion and disease prevention to enhance health					98.2	97.6	93.2	97.4	95.3	95.6	Decreased, 2008-2018	Decreased, 2008-2012 No change, 2012-2018	No change	
Analyzing the influence of family, peers, culture, media, technology, and other factors on health behaviors					96.2	95.6	94.0	95.6	95.3	93.3	Decreased, 2008-2018	No quadratic change	Decreased	
Accessing valid information and products and services to enhance health					90.1	88.6	86.4	92.1	88.6	93.8	Increased, 2008-2018	Decreased, 2008-2012 Increased, 2012-2018	Increased	
Using interpersonal communication skills to enhance health and avoid or reduce health risks					93.6	93.3	89.7	96.1	94.8	92.4	No linear change	No quadratic change	Decreased	
Using decision-making skills to enhance health					93.7	98.5	96.6	97.9	94.9	95.6	No linear change	Increased, 2008-2014 Decreased, 2014-2018	No change	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>	
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018				
Percentage of schools in which the health education curriculum addresses the following skills:															
Using goal-setting skills to enhance health						90.8	92.7	91.0	95.2	92.5	92.9	Increased, 2008-2018	No quadratic change	No change	
Practicing health-enhancing behaviors to avoid or reduce risks						96.6	97.5	96.6	97.0	95.8	94.8	Decreased, 2008-2018	No change, 2008-2014 Decreased, 2014-2018	No change	
Advocating for personal, family, and community health						89.9	92.0	87.3	92.0	91.2	89.7	No linear change	No quadratic change	No change	
Percentage of schools in which those who teach sexual health education are provided with the following materials:															
Goals, objectives, and expected outcomes for sexual health education										74.1	64.1	68.3	Decreased, 2014-2018	Not available	Increased
A written health education curriculum that includes objectives and content addressing sexual health education										74.2	61.4	59.7	Decreased, 2014-2018	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which those who teach sexual health education are provided with the following materials:														
A chart describing the annual scope and sequence of instruction for sexual health education									54.5	39.7	42.7	Decreased, 2014-2018	Not available	No change
Strategies that are age-appropriate, relevant, and actively engage students in learning									74.5	63.4	64.9	Decreased, 2014-2018	Not available	No change
Methods to assess student knowledge and skills related to sexual health education									66.0	63.5	57.9	Decreased, 2014-2018	Not available	Decreased
Percentage of schools that provide curricula or supplementary materials that include HIV, STD, or pregnancy prevention information that is relevant to lesbian, gay, bisexual, transgender, and questioning youth							9.8	18.9	21.3	34.3	42.0	Increased, 2010-2018	Not available	Increased
Percentage of schools in which health education instruction is required in any of grades 6 through 12							98.4	97.9	97.1	94.7	99.0	No linear change	Not available	Increased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.



# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers tried to increase student knowledge on the following topics in a required course in any of grades 6 through 12 during the current school year:														
Alcohol- or other drug-use prevention					99.6	99.1	97.4	98.9	96.6	96.9	Decreased, 2008-2018	Decreased, 2008-2014 Decreased, 2014-2018	No change	
Asthma					45.8	60.6	50.5	62.8	56.9	59.7	Increased, 2008-2018	Increased, 2008-2014 No change, 2014-2018	No change	
Chronic disease prevention									93.4	91.5	Decreased, 2016-2018	Not available	No change	
Emotional and mental health					95.2	90.3	94.5	94.6	91.0	91.4	Decreased, 2008-2018	No quadratic change	No change	
Epilepsy or seizure disorder								43.9	47.6	42.3	No linear change	Not available	Decreased	
Food allergies								71.2	67.3	69.2	No linear change	Not available	No change	
Foodborne illness prevention					75.8	77.7	77.0	77.7	66.7	70.1	Decreased, 2008-2018	No change, 2008-2014 Decreased, 2014-2018	Increased	
Human immunodeficiency virus (HIV) prevention					93.3	90.0	91.1	90.2	85.6	89.2	Decreased, 2008-2018	No quadratic change	Increased	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers tried to increase student knowledge on the following topics in a required course in any of grades 6 through 12 during the current school year:														
Human sexuality					86.0	85.0	88.6	84.0	75.2	83.2	Decreased, 2008-2018	No quadratic change	Increased	
Infectious disease prevention (e.g., influenza [flu] prevention)							91.3	94.7	88.0	86.5	Decreased, 2012-2018	Not available	No change	
Injury prevention and safety					92.6	91.9	93.4	96.3	93.8	91.5	No linear change	Increased, 2008-2014 Decreased, 2014-2018	Decreased	
Nutrition and dietary behavior					97.8	99.5	99.6	97.8	98.3	98.1	No linear change	Increased, 2008-2012 Decreased, 2012-2018	No change	
Physical activity and fitness					100.0	99.6	100.0	100.0	100.0	100.0	Increased, 2008-2018	†	¶	
Pregnancy prevention					78.9	82.3	85.1	81.8	80.1	82.9	No linear change	Increased, 2008-2012 No change, 2012-2018	Increased	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

† Analysis cannot be conducted when prevalence estimates of 0% or 100% are present.

¶ Analysis cannot be conducted when response rates are 100% for a census or 2016 and 2018 prevalence estimates are both 0% or 100%.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers tried to increase student knowledge on the following topics in a required course in any of grades 6 through 12 during the current school year:														
Sexually transmitted disease (STD) prevention					88.0	88.1	89.0	89.3	83.8	87.5	No linear change	No quadratic change	Increased	
Suicide prevention					74.7	76.8	82.2	80.1	85.5	90.2	Increased, 2008-2018	Increased, 2008-2014 Increased, 2014-2018	Increased	
Tobacco-use prevention					99.6	98.2	98.4	97.8	96.2	95.4	Decreased, 2008-2018	No quadratic change	No change	
Violence prevention (e.g., bullying, fighting, dating violence prevention)					93.6	90.2	96.2	96.8	96.4	93.0	Increased, 2008-2018	Increased, 2008-2014 Decreased, 2014-2018	Decreased	
Percentage of schools in which teachers taught the following tobacco-use prevention topics in a required course for students in any of grades 6 through 12 during the current school year:														
Identifying tobacco products and the harmful substances they contain					95.7	95.1	93.6	93.3	90.4	91.7	Decreased, 2008-2018	No quadratic change	No change	
Identifying short- and long-term health consequences of tobacco use					95.8	97.2	96.6	94.9	92.1	93.1	Decreased, 2008-2018	No quadratic change	No change	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following tobacco-use prevention topics in a required course for students in any of grades 6 through 12 during the current school year:														
Identifying social, economic, and cosmetic consequences of tobacco use						89.8	93.2	91.9	91.8	88.4	86.9	Decreased, 2008-2018	No change, 2008-2012 Decreased, 2012-2018	No change
Understanding the addictive nature of nicotine						95.1	94.6	94.0	94.9	92.5	92.1	Decreased, 2008-2018	No quadratic change	No change
Effects of nicotine on the adolescent brain										81.4	78.7	No linear change	Not available	No change
Effects of tobacco use on athletic performance						87.4	91.4	90.4	92.4	87.7	81.0	Decreased, 2008-2018	Increased, 2008-2014 Decreased, 2014-2018	Decreased
Effects of second-hand smoke and benefits of a smoke-free environment						93.5	96.6	90.2	93.2	90.0	88.8	Decreased, 2008-2018	No quadratic change	No change
Understanding the social influences on tobacco use, including media, family, peers, and culture						93.0	94.3	94.4	94.4	88.4	88.5	Decreased, 2008-2018	No change, 2008-2014 Decreased, 2014-2018	No change
Identifying reasons why students do and do not use tobacco						91.1	93.1	91.9	92.9	89.1	91.3	No linear change	No quadratic change	Increased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following tobacco-use prevention topics in a required course for students in any of grades 6 through 12 during the current school year:														
Making accurate assessments of how many peers use tobacco						68.5	76.3	75.4	75.9	78.8	75.1	Increased, 2008-2018	Increased, 2008-2012 No change, 2012-2018	Decreased
Using interpersonal communication skills to avoid tobacco use (e.g., refusal skills, assertiveness)						84.4	90.7	88.9	90.0	89.6	86.4	No linear change	Increased, 2008-2014 Decreased, 2014-2018	Decreased
Using goal-setting and decision-making skills related to not using tobacco						82.7	86.5	83.5	86.1	85.5	79.7	No linear change	No change, 2008-2014 Decreased, 2014-2018	Decreased
Finding valid information and services related to tobacco-use prevention and cessation						78.7	82.6	79.2	84.1	82.9	74.0	No linear change	Increased, 2008-2014 Decreased, 2014-2018	Decreased
Supporting others who abstain from or want to quit using tobacco						75.8	78.8	80.8	88.0	80.7	80.7	Increased, 2008-2018	Increased, 2008-2014 Decreased, 2014-2018	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following tobacco-use prevention topics in a required course for students in any of grades 6 through 12 during the current school year:														
Identifying harmful effects of tobacco use on fetal development					83.0	85.8	81.4	85.5	76.7	82.5	Decreased, 2008-2018	No quadratic change	Increased	
Relationship between using tobacco and alcohol or other drugs									90.5	86.5	89.0	No linear change	Not available	Increased
How addiction to tobacco use can be treated									87.0	82.0	83.0	Decreased, 2014-2018	Not available	No change
Understanding school policies and community laws related to the sale and use of tobacco products									89.4	84.6	83.7	Decreased, 2014-2018	Not available	No change
Benefits of tobacco cessation programs									70.2	65.8	62.5	Decreased, 2014-2018	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following sexual health topics in a required course for students in any of grades 6, 7, or 8 during the current school year:														
How HIV and other STDs are transmitted					83.0	77.0	76.3	74.5	73.2	71.9	Decreased, 2008-2018	No quadratic change	No change	
Health consequences of HIV, other STDs, and pregnancy					82.7	74.0	71.9	74.2	71.3	73.3	Decreased, 2008-2018	Decreased, 2008-2012 No change, 2012-2018	No change	
The benefits of being sexually abstinent					80.1	77.2	76.3	79.1	79.5	73.3	No linear change	No quadratic change	Decreased	
How to access valid and reliable health information, products, and services related to HIV, other STDs, and pregnancy					71.9	60.5	65.9	62.7	64.3	57.6	Decreased, 2008-2018	No quadratic change	Decreased	
The influences of family, peers, media, technology and other factors on sexual risk behaviors								75.2	71.8	72.1	No linear change	Not available	No change	
Communication and negotiation skills related to eliminating or reducing risk for HIV, other STDs, and pregnancy					72.6	62.7	66.6	67.8	68.4	66.8	No linear change	No quadratic change	No change	
Goal-setting and decision-making skills related to eliminating or reducing risk for HIV, other STDs, and pregnancy					67.8	63.3	69.0	70.4	63.0	62.6	No linear change	No quadratic change	No change	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following sexual health topics in a required course for students in any of grades 6, 7, or 8 during the current school year:														
Influencing and supporting others to avoid or reduce sexual risk behaviors									68.5	65.3	66.1	No linear change	Not available	No change
Efficacy of condoms, that is, how well condoms work and do not work							43.8	45.5	32.8	41.8	46.3	No linear change	Not available	No change
The importance of using condoms consistently and correctly							35.8	38.7	33.7	35.3	37.8	No linear change	Not available	No change
How to obtain condoms							17.8	22.2	20.2	27.8	30.9	Increased, 2010-2018	Not available	No change
How to correctly use a condom							11.3	11.1	15.7	19.0	19.5	Increased, 2010-2018	Not available	No change
Methods of contraception other than condoms										37.6	42.6	No linear change	Not available	No change
The importance of using a condom at the same time as another form of contraception to prevent both STDs and pregnancy								31.8	34.5	36.4	40.8	Increased, 2012-2018	Not available	No change
How to create and sustain healthy and respectful relationships								67.1	78.8	74.6	79.3	Increased, 2012-2018	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.



# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following sexual health topics in a required course for students in any of grades 6, 7, or 8 during the current school year:														
The importance of limiting the number of sexual partners									59.7	55.6	55.1	No linear change	Not available	No change
Preventive care (such as screenings and immunizations) that is necessary to maintain reproductive and sexual health									56.2	49.2	53.0	No linear change	Not available	No change
Sexual orientation										26.9	27.9	No linear change	Not available	No change
Gender roles, gender identity, or gender expression										30.1	31.0	No linear change	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following sexual health topics in a required course for students in any of grades 9, 10, 11, or 12 during the current school year:														
How HIV and other STDs are transmitted						91.3	96.6	91.8	87.3	89.5	Decreased, 2010-2018	Not available	No change	
Health consequences of HIV, other STDs, and pregnancy						91.4	93.2	90.2	85.7	89.4	Decreased, 2010-2018	Not available	Increased	
The benefits of being sexually abstinent					89.7	91.4	94.8	91.6	86.4	89.4	No linear change	Increased, 2008-2012 Decreased, 2012-2018	No change	
How to access valid and reliable health information, products, and services related to HIV, other STDs, and pregnancy					85.3	82.1	87.8	87.5	79.6	81.4	No linear change	No change, 2008-2014 Decreased, 2014-2018	No change	
The influences of family, peers, media, technology and other factors on sexual risk behaviors								89.9	85.7	84.6	Decreased, 2014-2018	Not available	No change	
Communication and negotiation skills related to eliminating or reducing risk for HIV, other STDs, and pregnancy					82.3	82.8	85.6	87.7	78.9	85.7	No linear change	No quadratic change	Increased	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following sexual health topics in a required course for students in any of grades 9, 10, 11, or 12 during the current school year:														
Goal-setting and decision-making skills related to eliminating or reducing risk for HIV, other STDs, and pregnancy					77.5	79.7	86.0	83.6	78.0	81.4		No linear change	Increased, 2008-2012 Decreased, 2012-2018	No change
Influencing and supporting others to avoid or reduce sexual risk behaviors								86.0	80.5	83.5		No linear change	Not available	No change
Efficacy of condoms, that is, how well condoms work and do not work					71.2	73.3	80.8	70.5	65.6	74.1		No linear change	No quadratic change	Increased
The importance of using condoms consistently and correctly					62.3	64.1	73.2	63.8	63.6	67.6		No linear change	No quadratic change	No change
How to obtain condoms					52.2	56.3	52.9	60.1	53.9	64.2		Increased, 2008-2018	No quadratic change	Increased
How to correctly use a condom						44.0	40.8	50.1	41.3	56.4		Increased, 2010-2018	Not available	Increased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following sexual health topics in a required course for students in any of grades 9, 10, 11, or 12 during the current school year:														
Methods of contraception other than condoms										68.2	70.4	No linear change	Not available	No change
The importance of using a condom at the same time as another form of contraception to prevent both STDs and pregnancy							63.2	65.5	70.2	70.9		Increased, 2012-2018	Not available	No change
How to create and sustain healthy and respectful relationships							81.6	92.3	86.5	88.5		Increased, 2012-2018	Not available	No change
The importance of limiting the number of sexual partners								85.9	79.6	86.5		No linear change	Not available	Increased
Preventive care (such as screenings and immunizations) that is necessary to maintain reproductive and sexual health								83.3	72.7	75.5		Decreased, 2014-2018	Not available	No change
Sexual orientation									41.4	57.7		Increased, 2016-2018	Not available	Increased
Gender roles, gender identity, or gender expression									47.5	57.7		Increased, 2016-2018	Not available	Increased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers assessed the ability of students to do each of the following in a required course for students in any of grades 6, 7, or 8 during the current school year:														
Comprehend concepts important to prevent HIV, other STDs, and pregnancy									65.0	64.1	61.0	No linear change	Not available	No change
Analyze the influence of family, peers, culture, media, technology, and other factors on sexual risk behaviors									65.9	68.4	60.8	No linear change	Not available	Decreased
Access valid information, products, and services to prevent HIV, other STDs, and pregnancy									52.9	52.5	47.1	No linear change	Not available	No change
Use interpersonal communication skills to avoid or reduce sexual risk behaviors									68.0	69.3	64.7	No linear change	Not available	No change
Use decision-making skills to prevent HIV, other STDs, and pregnancy									68.4	66.3	61.2	Decreased, 2014-2018	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers assessed the ability of students to do each of the following in a required course for students in any of grades 6, 7, or 8 during the current school year:														
Set personal goals that enhance health, take steps to achieve these goals, and monitor progress in achieving them									67.8	67.2	65.7	No linear change	Not available	No change
Influence and support others to avoid or reduce sexual risk behaviors									68.8	66.3	63.5	No linear change	Not available	No change
Percentage of schools in which teachers assessed the ability of students to do each of the following in a required course for students in any of grades 9, 10, 11, or 12 during the current school year:														
Comprehend concepts important to prevent HIV, other STDs, and pregnancy									86.8	84.1	89.4	No linear change	Not available	Increased
Analyze the influence of family, peers, culture, media, technology, and other factors on sexual risk behaviors									83.5	82.9	80.5	No linear change	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers assessed the ability of students to do each of the following in a required course for students in any of grades 9, 10, 11, or 12 during the current school year:														
Access valid information, products, and services to prevent HIV, other STDs, and pregnancy									77.5	73.7	83.4	Increased, 2014-2018	Not available	Increased
Use interpersonal communication skills to avoid or reduce sexual risk behaviors									82.5	83.3	87.2	Increased, 2014-2018	Not available	Increased
Use decision-making skills to prevent HIV, other STDs, and pregnancy									83.4	80.6	90.5	Increased, 2014-2018	Not available	Increased
Set personal goals that enhance health, take steps to achieve these goals, and monitor progress in achieving them									73.6	77.2	81.7	Increased, 2014-2018	Not available	Increased
Influence and support others to avoid or reduce sexual risk behaviors									78.2	77.2	84.6	Increased, 2014-2018	Not available	Increased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>	
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018				
Percentage of schools in which teachers taught the following nutrition and dietary behavior topics in a required course for students in any of grades 6 through 12 during the current school year:															
Benefits of healthy eating					96.1	97.5	99.2	97.3	96.2	96.8		No linear change	Increased, 2008-2012 Decreased, 2012-2018	No change	
Benefits of drinking plenty of water								97.3	96.7	96.1		No linear change	Not available	No change	
Benefits of eating breakfast every day									96.2	95.7		No linear change	Not available	No change	
Food guidance using the current Dietary Guidelines for Americans (e.g., MyPlate)								93.1	94.2	90.3		Decreased, 2014-2018	Not available	Decreased	
Using food labels					91.2	96.2	95.5	91.4	91.7	91.3		Decreased, 2008-2018	Increased, 2008-2012 Decreased, 2012-2018	No change	
Differentiating between nutritious and non-nutritious beverages								95.3	93.4	93.5		Decreased, 2014-2018	Not available	No change	
Balancing food intake and physical activity					95.7	96.7	97.9	96.5	96.3	96.3		No linear change	Increased, 2008-2012 Decreased, 2012-2018	No change	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.



# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following nutrition and dietary behavior topics in a required course for students in any of grades 6 through 12 during the current school year:														
Eating more fruits, vegetables, and whole grain products					96.2	97.6	99.2	95.6	96.2	95.3	Decreased, 2008-2018	Increased, 2008-2012 Decreased, 2012-2018	No change	
Choosing foods and snacks that are low in solid fat (i.e., saturated and trans fat)					94.5	96.1	96.6	94.4	90.9	89.6	Decreased, 2008-2018	Increased, 2008-2012 Decreased, 2012-2018	No change	
Choosing foods, snacks, and beverages that are low in added sugars								94.4	93.8	92.1	Decreased, 2014-2018	Not available	No change	
Choosing foods and snacks that are low in sodium								91.9	88.9	86.6	Decreased, 2014-2018	Not available	No change	
Eating a variety of foods that are high in calcium								92.8	91.7	88.1	Decreased, 2014-2018	Not available	Decreased	
Eating a variety of foods that are high in iron								88.9	86.4	85.1	Decreased, 2014-2018	Not available	No change	
Food safety					84.2	82.8	89.0	87.8	82.7	86.1	No linear change	Increased, 2008-2012 Decreased, 2012-2018	Increased	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following nutrition and dietary behavior topics in a required course for students in any of grades 6 through 12 during the current school year:														
Preparing healthy meals and snacks					90.0	86.3	94.8	90.2	83.5	89.3	Decreased, 2008-2018	No quadratic change	Increased	
Risks of unhealthy weight control practices					93.7	93.2	93.8	94.5	93.8	92.0	No linear change	No quadratic change	No change	
Accepting body size differences					90.6	86.5	94.8	91.0	89.7	88.6	No linear change	Increased, 2008-2012 Decreased, 2012-2018	No change	
Signs, symptoms, and treatment for eating disorders					91.5	87.0	91.1	89.1	86.7	83.1	Decreased, 2008-2018	No change, 2008-2014 Decreased, 2014-2018	Decreased	
Relationship between diet and chronic diseases								91.0	87.5	86.8	Decreased, 2014-2018	Not available	No change	
Assessing body mass index (BMI)								82.8	79.5	77.8	Decreased, 2014-2018	Not available	No change	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following physical activity topics in a required course for students in any of grades 6 through 12 during the current school year:														
Short-term and long-term benefits of physical activity, including reducing the risks for chronic disease									97.8	97.1	97.2	No linear change	Not available	No change
Mental and social benefits of physical activity									97.8	98.4	97.8	No linear change	Not available	No change
Health-related fitness (i.e., cardiorespiratory endurance, muscular endurance, muscular strength, flexibility, and body composition)						97.8	98.2	98.3	97.4	97.2	96.8	Decreased, 2008-2018	No quadratic change	No change
Phases of a workout (i.e., warm-up, workout, cool down)						97.6	97.6	98.7	96.0	97.1	96.8	No linear change	No quadratic change	No change
Recommended amounts and types of moderate, vigorous, muscle-strengthening, and bone-strengthening physical activity									92.7	91.8	94.0	No linear change	Not available	Increased
Decreasing sedentary activities (e.g., television viewing)						88.6	94.9	93.1	96.6	96.8	94.5	Increased, 2008-2018	Increased, 2008-2014 Decreased, 2014-2018	Decreased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which teachers taught the following physical activity topics in a required course for students in any of grades 6 through 12 during the current school year:														
Preventing injury during physical activity					96.1	93.3	97.9	97.4	96.7	96.4	Increased, 2008-2018	No quadratic change	No change	
Weather-related safety (e.g., avoiding heat stroke, hypothermia, and sunburn while physically active)					85.3	81.6	88.5	90.8	90.2	86.4	Increased, 2008-2018	Increased, 2008-2014 Decreased, 2014-2018	Decreased	
Dangers of using performance-enhancing drugs (e.g., steroids)					88.8	87.9	85.8	87.6	89.0	80.4	Decreased, 2008-2018	No change, 2008-2014 Decreased, 2014-2018	Decreased	
Increasing daily physical activity								97.8	99.6	97.6	No linear change	Not available	Decreased	
Incorporating physical activity into daily life (without relying on a structured exercise plan or special equipment)								96.4	97.2	93.5	Decreased, 2014-2018	Not available	Decreased	
Using safety equipment for specific physical activities								93.1	94.4	90.8	Decreased, 2014-2018	Not available	Decreased	
Benefits of drinking water before, during, and after physical activity								96.1	98.8	98.1	Increased, 2014-2018	Not available	No change	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that taught all 13 physical activity topics during the current school year									79.7	77.2	71.5	Decreased, 2014-2018	Not available	Decreased
ESHE_PM_2a: Percentage of schools that teach 11 key HIV, STD, and pregnancy prevention topics in a required course during grades 6, 7, or 8 and during grades 9, 10, 11, or 12									41.8	37.6	39.7	No linear change	Not available	No change
ESHE_PM_2b: Percentage of schools that assess the ability of students to do 7 skills in a required course taught during grades 6, 7, or 8 and during grades 9, 10, 11, or 12									56.9	54.8	54.5	No linear change	Not available	No change
ESHE_PM_2c: Percentage of schools in which those who teach sexual health education are provided with key materials for teaching sexual health education									49.7	35.0	37.8	Decreased, 2014-2018	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence						Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>					
	1998	2000	2002	2004	2006	2008				2010	2012	2014	2016	2018
Percentage of schools that provided parents and families with health information designed to increase parent and family knowledge of the following topics during the current school year:														
HIV prevention, STD prevention, or teen pregnancy prevention					27.9	22.8	20.2	18.3	19.0	21.6	Decreased, 2008-2018	Decreased, 2008-2014 Increased, 2014-2018	No change	
Tobacco-use prevention					46.2	37.0	33.6	30.1	33.1	26.0	Decreased, 2008-2018	Decreased, 2008-2012 Decreased, 2012-2018	Decreased	
Physical activity					46.8	42.2	38.6	41.4	41.6	33.6	Decreased, 2008-2018	No quadratic change	Decreased	
Nutrition and healthy eating					41.0	43.0	40.0	40.5	43.7	32.9	Decreased, 2008-2018	No change, 2008-2014 Decreased, 2014-2018	Decreased	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools that provided parents and families with health information designed to increase parent and family knowledge of the following topics during the current school year:														
Asthma					17.2	17.7	15.3	16.2	15.5	15.1		No linear change	No quadratic change	No change
Food allergies								24.1	26.3	25.3		No linear change	Not available	No change
Diabetes								21.0	19.3	19.0		No linear change	Not available	No change
Preventing student bullying and sexual harassment, including electronic aggression (i.e., cyber-bullying)								63.9	62.7	53.4		Decreased, 2014-2018	Not available	Decreased
Percentage of schools in which teachers have given students health education homework assignments or activities to do at home with their parents during the current school year								53.1	49.4	44.3		Decreased, 2014-2018	Not available	Decreased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
<b>Professional Development</b>														
Percentage of schools in which the lead health education teacher received professional development on the following topics during the two years before the survey:														
Alcohol- or other drug-use prevention	44.0	57.4	53.7	70.0	52.0	40.8	44.8	34.6	39.6	32.8	Decreased, 2000-2018	Increased, 2000-2006 Decreased, 2006-2018	Decreased	
Asthma				13.8	14.5	19.8	23.6	17.9	19.1	18.4	Increased, 2006-2018	Increased, 2006-2012 Decreased, 2012-2018	No change	
Chronic disease prevention									28.5	27.6	No linear change	Not available	No change	
Emotional and mental health	27.4	30.5	31.9	38.9	34.1	32.2	31.9	32.0	45.6	46.9	Increased, 2000-2018	Increased, 2000-2014 Increased, 2014-2018	No change	
Epilepsy or seizure disorder								13.2	16.2	19.5	Increased, 2014-2018	Not available	Increased	
Food allergies								21.7	22.3	21.1	No linear change	Not available	No change	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.



# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher received professional development on the following topics during the two years before the survey:														
Foodborne illness prevention					21.3	18.0	19.9	20.5	14.0	18.8	20.0	No linear change	Decreased, 2006-2014 Increased, 2014-2018	No change
HIV prevention		51.6	54.3	51.7	44.8	36.9	39.4	46.4	33.8	21.2	22.6	Decreased, 2000-2018	Decreased, 2000-2012 Decreased, 2012-2018	No change
Human sexuality		28.2	35.0	29.5	27.1	29.7	29.8	36.2	26.8	18.7	22.1	Decreased, 2000-2018	No change, 2000-2012 Decreased, 2012-2018	Increased
Infectious disease prevention (e.g., flu prevention)								43.7	31.2	28.5	30.4	Decreased, 2012-2018	Not available	No change
Injury prevention and safety		45.7	48.2	52.0	47.9	52.8	51.2	50.7	37.0	45.2	40.2	Decreased, 2000-2018	Increased, 2000-2008 Decreased, 2008-2018	Decreased
Nutrition and dietary behavior		30.8	31.5	37.6	34.5	41.8	32.6	36.3	30.2	31.9	28.5	Decreased, 2000-2018	Increased, 2000-2008 Decreased, 2008-2018	Decreased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher received professional development on the following topics during the two years before the survey:														
Physical activity and fitness	48.4	46.6	55.3	51.9	58.4	56.4	52.7	47.1	53.5	48.6		No linear change	Increased, 2000-2004 Decreased, 2004-2018	Decreased
Pregnancy prevention	25.1	26.2	27.7	23.4	20.3	28.5	26.0	24.7	15.2	17.3		Decreased, 2000-2018	No change, 2000-2012 Decreased, 2012-2018	No change
STD prevention	39.4	38.1	40.1	33.2	29.7	33.9	37.3	29.1	18.4	18.1		Decreased, 2000-2018	Decreased, 2000-2012 Decreased, 2012-2018	No change
Suicide prevention	19.9	21.6	27.9	30.7	32.2	38.9	35.4	32.7	48.3	61.4		Increased, 2000-2018	Increased, 2000-2014 Increased, 2014-2018	Increased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher received professional development on the following topics during the two years before the survey:														
Tobacco-use prevention	36.8	57.1	40.8	39.4	42.5	33.2	34.7	27.3	35.9	31.6	Decreased, 2000-2018	No quadratic change	Decreased	
Violence prevention (e.g., bullying, fighting, dating violence prevention)	50.5	51.2	52.3	58.6	53.3	52.6	65.3	51.0	52.5	47.5	No linear change	Increased, 2000-2012 Decreased, 2012-2018	Decreased	
Percentage of schools in which the lead health education teacher received professional development on the following topics during the two years before the survey:														
Teaching students with physical, medical, or cognitive disabilities	32.8	31.4	35.2	43.6	31.7	23.0	27.5	30.9	38.8	38.2	No linear change	Decreased, 2000-2012 Increased, 2012-2018	No change	
Teaching students of various cultural backgrounds	24.1	21.4	24.3	33.0	38.2	33.0	39.5	30.3	37.0	34.4	Increased, 2000-2018	Increased, 2000-2008 No change, 2008-2018	No change	
Teaching students with limited English proficiency	4.0	3.5	10.8	8.8	10.6	8.2	9.0	7.0	13.0	10.6	Increased, 2000-2018	Increased, 2000-2004 No change, 2004-2018	Decreased	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher received professional development on the following topics during the two years before the survey:														
Teaching students of different sexual orientations or gender identities						8.1	9.0	5.3	10.8	16.4		Increased, 2010-2018	Not available	Increased
Using interactive teaching methods (e.g., role plays, cooperative group activities)	48.8	50.5	44.8	45.2	39.9	49.3	51.4	46.3	48.2	41.8		No linear change	No quadratic change	Decreased
Encouraging family or community involvement	32.2	31.6	32.9	35.8	32.7	32.8	31.2	30.4	33.0	28.1		Decreased, 2000-2018	No change, 2000-2006 Decreased, 2006-2018	Decreased
Teaching skills for behavior change	43.8	46.0	51.0	52.7	47.0	38.3	44.3	33.9	39.4	34.6		Decreased, 2000-2018	Increased, 2000-2004 Decreased, 2004-2018	Decreased
Classroom management techniques (e.g., social skills training, environmental modification, conflict resolution and mediation, behavior management)					57.2	52.2	50.8	56.7	52.2	54.9	49.2	Decreased, 2006-2018	No quadratic change	Decreased
Assessing or evaluating students in health education					34.6	30.5	28.2	28.2	25.5	29.6	30.8	Decreased, 2006-2018	Decreased, 2006-2014 Increased, 2014-2018	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

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## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher received professional development on the following topics related to teaching sexual health education:														
Aligning lessons and materials with the district scope and sequence for sexual health education										20.4	27.2	Increased, 2016-2018	Not available	Increased
Creating a comfortable and safe learning environment for students receiving sexual health education										21.7	25.3	Increased, 2016-2018	Not available	Increased
Connecting students to on-site or community-based sexual health services										15.1	24.1	Increased, 2016-2018	Not available	Increased
Using a variety of effective instructional strategies to deliver sexual health education										18.7	24.2	Increased, 2016-2018	Not available	Increased
Building student skills in HIV, other STD, and pregnancy prevention										20.3	23.7	Increased, 2016-2018	Not available	Increased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher received professional development on the following topics related to teaching sexual health education:														
Assessing student knowledge and skills in sexual health education										20.5	24.7	Increased, 2016-2018	Not available	Increased
Understanding current district or school board policies or curriculum guidance regarding sexual health education										21.9	26.3	Increased, 2016-2018	Not available	Increased
Percentage of schools in which the lead health education teacher would like to receive professional development on the following topics:														
Alcohol- or other drug-use prevention	68.4	65.3	67.7	71.8	78.5	70.2	74.3	68.4	73.0	64.8	No linear change	Increased, 2000-2008 Decreased, 2008-2018	Decreased	
Asthma				61.2	69.3	58.6	61.0	50.6	54.9	46.7	Decreased, 2006-2018	No change, 2006-2010 Decreased, 2010-2018	Decreased	
Chronic disease prevention (e.g., diabetes, obesity prevention)									71.1	61.2	Decreased, 2016-2018	Not available	Decreased	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher would like to receive professional development on the following topics:														
Emotional and mental health		61.4	67.8	65.6	70.7	75.7	65.6	67.2	65.5	72.8	74.2	Increased, 2000-2018	No quadratic change	No change
Epilepsy or seizure disorder									48.1	52.6	47.5	No linear change	Not available	Decreased
Food allergies									51.4	51.8	50.3	No linear change	Not available	No change
Foodborne illness prevention					49.8	54.5	46.8	48.0	47.2	45.2	45.8	Decreased, 2006-2018	No quadratic change	No change
HIV prevention		65.3	64.2	59.7	62.4	72.0	66.3	63.8	63.3	63.8	60.3	No linear change	Increased, 2000-2008 Decreased, 2008-2018	Decreased
Human sexuality		55.1	58.4	53.5	56.1	72.8	65.5	62.7	64.8	70.5	61.9	Increased, 2000-2018	Increased, 2000-2008 Decreased, 2008-2018	Decreased
Infectious disease prevention (e.g., flu prevention)								55.6	54.0	61.9	58.3	Increased, 2012-2018	Not available	Decreased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher would like to receive professional development on the following topics:														
Injury prevention and safety		50.8	49.8	43.9	62.4	67.0	62.8	61.1	56.0	61.5	58.0	Increased, 2000-2018	Increased, 2000-2008 Decreased, 2008-2018	Decreased
Nutrition and dietary behavior		67.1	66.6	63.6	73.9	78.7	76.5	69.8	73.2	76.9	68.0	Increased, 2000-2018	Increased, 2000-2008 Decreased, 2008-2018	Decreased
Physical activity and fitness		62.7	66.0	60.5	71.5	75.5	74.2	70.2	67.0	71.3	66.3	Increased, 2000-2018	Increased, 2000-2008 Decreased, 2008-2018	Decreased
Pregnancy prevention		59.2	54.6	51.2	57.1	64.6	58.1	65.0	55.4	62.0	58.9	Increased, 2000-2018	No quadratic change	No change
STD prevention		64.5	62.8	57.0	61.5	71.4	62.6	63.2	63.4	68.1	63.6	Increased, 2000-2018	No quadratic change	Decreased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.



# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher would like to receive professional development on the following topics:														
Suicide prevention	73.5	74.2	74.4	71.7	80.3	70.3	75.5	72.1	76.1	74.4	No linear change	No quadratic change	No change	
Tobacco-use prevention	66.4	60.4	61.0	59.9	66.4	61.3	66.2	66.2	67.6	63.0	Increased, 2000-2018	No quadratic change	Decreased	
Violence prevention (e.g., bullying, fighting, dating violence prevention)	78.0	74.6	75.9	72.1	77.4	75.0	76.6	74.0	76.5	69.8	Decreased, 2000-2018	No quadratic change	Decreased	
Percentage of schools in which the lead health education teacher would like to receive professional development on the following topics:														
Teaching students with physical, medical, or cognitive disabilities	62.1	57.9	53.7	61.5	60.4	57.1	61.1	63.4	65.3	63.7	Increased, 2000-2018	Decreased, 2000-2004 Increased, 2004-2018	No change	
Teaching students of various cultural backgrounds	43.9	43.6	39.6	43.7	47.2	44.4	45.9	49.2	53.9	52.7	Increased, 2000-2018	Decreased, 2000-2004 Increased, 2004-2018	No change	

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher would like to receive professional development on the following topics:														
Teaching students with limited English proficiency		35.6	34.8	29.8	34.9	35.4	31.6	33.3	42.3	37.8	39.6	Increased, 2000-2018	Decreased, 2000-2004 Increased, 2004-2018	No change
Teaching students of different sexual orientations or gender identities							43.9	52.6	52.4	59.7	62.3	Increased, 2010-2018	Not available	No change
Using interactive teaching methods (e.g., role plays, cooperative group activities)		64.8	63.3	55.1	60.9	66.5	65.4	59.0	60.0	67.2	67.8	Increased, 2000-2018	Decreased, 2000-2004 Increased, 2004-2018	No change
Encouraging family or community involvement		67.6	66.2	61.2	62.3	70.3	65.6	66.4	63.0	67.0	67.9	No linear change	No quadratic change	No change
Teaching skills for behavior change		75.1	78.2	70.6	79.4	75.2	76.4	70.4	72.7	70.9	74.9	Decreased, 2000-2018	No quadratic change	Increased
Classroom management techniques (e.g., social skills training, environmental modification, conflict resolution and mediation, behavior management)					74.0	68.0	70.2	64.6	62.2	68.5	65.1	Decreased, 2006-2018	Decreased, 2006-2012 No change, 2012-2018	Decreased
Assessing or evaluating students in health education					71.1	79.7	72.3	72.9	73.2	70.7	70.1	Decreased, 2006-2018	No quadratic change	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher would like to receive professional development on each of the following topics related to teaching sexual health education:														
Aligning lessons and materials with the district scope and sequence for sexual health education										64.1	60.4	Decreased, 2016-2018	Not available	Decreased
Creating a comfortable and safe learning environment for students receiving sexual health education										61.5	64.9	Increased, 2016-2018	Not available	Increased
Connecting students to on-site or community-based sexual health services										59.7	62.0	No linear change	Not available	No change
Using a variety of effective instructional strategies to deliver sexual health education										72.5	73.7	No linear change	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher would like to receive professional development on each of the following topics related to teaching sexual health education:														
Building student skills in HIV, other STD, and pregnancy prevention										66.8	64.9	No linear change	Not available	No change
Assessing student knowledge and skills in sexual health education										65.5	67.0	No linear change	Not available	No change
Understanding current district or school board policies or curriculum guidance regarding sexual health education										64.8	65.0	No linear change	Not available	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
<b>Professional Preparation</b>														
Percentage of schools in which the major emphasis of the lead health education teacher's professional preparation was on the following:														
Health education or health and physical education combined (a or b)	55.1	60.9	65.6	71.7	65.4	71.1	72.2	80.8	75.5	73.1	78.2	Increased, 1998-2018	Increased, 1998-2004 Increased, 2004-2018	Increased
Physical education, kinesiology, exercise science or exercise physiology (c or e)					12.4	10.8	12.1	10.3	9.0	14.5	5.6	Decreased, 2006-2018	No quadratic change	Decreased
Home economics or family and consumer science, biology or other science, or nutrition (f, g, or k)					1.7	1.9	1.6	1.3	4.4	2.9	2.2	Increased, 2006-2018	No quadratic change	No change
Nursing or counseling (h or i)	17.2	0.8	2.7	0.3	0.6	0.4	0.5	0.0	0.0	0.0	0.5	Decreased, 1998-2018	†	Increased
Public health or other (j or l)		0.0	3.7	3.7	1.3	2.9	1.7	0.4	1.8	0.4	1.8	Decreased, 2000-2018	†	Increased

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.

† Analysis cannot be conducted when prevalence estimates of 0% or 100% are present.

# MONTANA

## 2018 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence											Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2016-2018 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018			
Percentage of schools in which the lead health education teacher was certified, licensed, or endorsed by the state to teach health education in middle school or high school					90.8	95.5	94.0	96.7	97.2	96.6	96.1	Increased, 2006-2018	Increased, 2006-2012 No change, 2012-2018	No change
Percentage of schools in which the lead health education teacher had the following number of years of experience in teaching health education courses or topics:														
1 year	7.9	13.3	8.4	6.0	6.1	4.2	4.9	4.5	9.5	7.1	7.0	Decreased, 1998-2018	Decreased, 1998-2008 Increased, 2008-2018	No change
2 to 5 years	25.7	23.4	21.7	25.7	20.2	23.8	20.5	20.2	18.8	24.9	23.8	Decreased, 1998-2018	Decreased, 1998-2014 Increased, 2014-2018	No change
6 to 9 years	19.2	16.8	17.0	14.6	17.5	16.7	17.5	14.6	15.4	12.8	13.5	Decreased, 1998-2018	No quadratic change	No change
10 to 14 years	14.1	14.4	14.6	16.9	18.3	21.5	16.7	19.9	13.7	13.4	10.8	No linear change	Increased, 1998-2010 Decreased, 2010-2018	Decreased
15 years or more	33.1	32.2	38.3	36.8	37.9	33.8	40.5	40.7	42.6	41.9	44.9	Increased, 1998-2018	No quadratic change	No change

<sup>1</sup>Based on trend analyses using a logistic regression model, p < 0.05.

<sup>2</sup>Based on t-test analysis, p < 0.05.