

**SOUTH CAROLINA**  
**2020 School Health Profiles Report**  
**Trend Analysis Report - Principal Survey**

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
<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:															
Physical education and physical activity											54.7	49.3	No linear change	Not available	No change
Nutrition						35.7	45.9	48.2	49.9	54.3	48.6	48.5	Increased, 2008-2020	Increased, 2008-2016 No change, 2016-2020	No change
Tobacco-use prevention						33.2	42.4	47.0	41.3	43.3	44.6	47.5	Increased, 2008-2020	No quadratic change	No change
Chronic health conditions (e.g., asthma, food allergies)											37.0	39.2	No linear change	Not available	No change
Unintentional injury and violence prevention (safety)							36.7	43.0	40.6	40.6	41.8	39.5	No linear change	No quadratic change	No change
Sexual health, including HIV, other STD, and pregnancy prevention											41.5	41.8	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,  $p < 0.05$ .

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools with a School Improvement Plan that includes health-related objectives on the following topics:															
Health education						43.5	40.4	42.2	39.6	39.7	41.3		No linear change	No quadratic change	No change
Physical education									43.0	41.4	42.2	39.3	No linear change	Not available	No change
Physical activity									39.3	34.2	35.5	35.0	No linear change	Not available	No change
School meal programs									33.7	30.4	35.5	32.4	No linear change	Not available	No change
Foods and beverages available at school outside the school meal programs									27.9	31.4	31.1	30.1	No linear change	Not available	No change
Health services						41.2	40.9	36.6	38.2	41.8	38.4		No linear change	No quadratic change	No change
Counseling, psychological, and social services									49.6	53.2	58.8		No linear change	Not available	No change
Physical environment									57.6	64.5	64.4		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,  $p < 0.05$ .

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools with a School Improvement Plan that includes health-related objectives on the following topics:															
Social and emotional climate										67.8	71.7	71.9	No linear change	Not available	No change
Family engagement										66.7	71.9	76.3	Increased, 2016-2020	Not available	No change
Community involvement										69.1	73.7	77.0	No linear change	Not available	No change
Employee wellness										34.9	40.1	45.0	Increased, 2016-2020	Not available	No change
Percentage of schools that reviewed health and safety data as part of school's improvement planning process*								52.0	54.3	54.8	51.7	54.1	No linear change	Not available	No change
Percentage of schools that did the following activities:															
Reviewed district's local wellness policy											81.6	83.2	No linear change	Not available	No change
Helped revise district's local wellness policy											46.6	46.7	No linear change	Not available	No change

\* 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	2020			
Percentage of schools that did the following activities:															
Communicated to school staff about district's local wellness policy											67.7	73.8	No linear change	Not available	No change
Communicated to parents and families about district's local wellness policy											59.6	63.9	No linear change	Not available	No change
Communicated to students about district's local wellness policy											63.7	67.7	No linear change	Not available	No change
Measured school's compliance with district's local wellness policy											61.2	62.0	No linear change	Not available	No change
Developed an action plan that describes steps to meet requirements of district's local wellness policy											48.1	52.6	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						88.3	86.5	87.2	88.5	88.7	89.5	91.3	No linear change	No quadratic change	No change

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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					56.6	56.7	58.0	57.0	57.4	63.3	51.6	63.2	No linear change	No quadratic change	Increased
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								74.3	73.9	74.2	78.1	78.7	No linear change	Not available	No change
Recommended new or revised health and safety policies and activities to school administrators or the school improvement team								67.3	71.3	70.9	82.7	69.5	No linear change	Not available	Decreased
Sought funding or leveraged resources to support health and safety priorities for students and staff								51.0	56.0	67.7	70.4	65.0	Increased, 2012-2020	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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	Prevalence														
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020	Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
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								83.5	84.0	88.2	86.0	84.6	No linear change	Not available	No change
Reviewed health-related curricula or instructional materials								78.1	76.9	81.5	78.3	76.7	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	2020			
<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						13.0	15.2	12.2	20.0	18.5	26.4	27.6	Increased, 2008-2020	No quadratic change	No change
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							42.6	50.6	57.4	63.5	72.1	79.3	Increased, 2010-2020	No quadratic change	No change
Prohibit harassment based on a student's perceived or actual sexual orientation or gender identity							84.0	89.9	86.9	92.4	94.5	94.5	Increased, 2010-2020	No quadratic change	No change
Encourage staff to attend professional development on safe and supportive school environments for all students, regardless of sexual orientation or gender identity							54.1	56.6	62.0	62.7	73.4	75.3	Increased, 2010-2020	No quadratic change	No change

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools that engage in the following LGBTQ youth-related practices:															
Facilitate access to providers not on school property who have experience in providing health services, including HIV/STD testing and counseling, to LGBTQ youth							36.9	35.7	36.8	40.6	45.2	40.6	No linear change	No quadratic change	No change
Facilitate access to providers not on school property who have experience in providing social and psychological services to LGBTQ youth							37.6	40.3	42.0	41.8	48.3	46.5	Increased, 2010-2020	No quadratic change	No change
LGBTQ. Percentage of schools that implement practices that meet the needs of lesbian, gay, bisexual, transgender, and questioning (LGBTQ) youth							1.1	1.9	4.4	6.3	12.7	10.2	Increased, 2010-2020	Increased, 2010-2016 Increased, 2016-2020	No change

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
<b>Bullying and Sexual Harassment</b>															
Percentage of schools in which all staff received professional development on preventing, identifying, and responding to student bullying and sexual harassment, including electronic aggression									94.7	92.7	91.9	95.7	No linear change	Not available	No change
Percentage of schools that have a designated staff member to whom students can confidentially report student bullying and sexual harassment, including electronic aggression									94.6	96.6	96.1	98.2	No linear change	Not available	No change
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									93.5	93.4	92.5	98.3	Increased, 2014-2020	Not available	Increased

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
<b>Required Physical Education</b>															
Percentage of schools that taught required physical education in the following grades:*															
6th grade				98.0	99.2	98.2	97.2	96.6	91.6	87.2	92.9	96.2	Decreased, 2004-2020	Decreased, 2004-2016 Increased, 2016-2020	No change
7th grade				98.3	98.6	96.7	96.9	97.7	90.4	86.1	92.8	92.0	Decreased, 2004-2020	No quadratic change	No change
8th grade				98.4	98.6	96.6	96.9	97.6	89.3	85.3	92.7	93.0	Decreased, 2004-2020	No change, 2004-2012 No change, 2012-2020	No change
9th grade				97.1	98.1	99.0	95.0	99.1	96.5	99.2	97.9	98.6	No linear change	No quadratic change	No change
10th grade				48.1	44.4	53.6	47.4	46.3	49.6	46.3	47.9	48.1	No linear change	No quadratic change	No change
11th grade				46.8	43.4	51.5	43.8	45.8	46.4	43.3	44.0	42.4	No linear change	No quadratic change	No change
12th grade				46.8	43.8	51.5	43.4	45.2	46.8	44.1	43.3	43.0	No linear change	No quadratic change	No change

\* 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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<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									94.5	94.9	96.8	93.6	No linear change	Not available	No change
Percentage of schools in which students participate in physical activity in classrooms during the school day outside of physical education								45.2	46.6	48.5	50.2	57.0	Increased, 2012-2020	Not available	No change
Percentage of schools that offer interscholastic sports to students								88.5	87.4	84.1	78.1	85.3	Decreased, 2012-2020	Not available	No change

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools that offer opportunities for students to participate in physical activity through organized physical activities or access to facilities or equipment for physical activity during the following times:															
Before the school day									25.5	28.7	27.6	32.8	No linear change	Not available	No change
After the school day											76.3	87.7	Increased, 2018-2020	Not available	Increased
Percentage of schools that have a joint use agreement for shared use of the following school or community facilities:															
Physical activity facilities								69.2	55.5	62.4	61.4	58.0	No linear change	Not available	No change
Kitchen facilities and equipment											22.7	19.3	No linear change	Not available	No change

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
<b>Tobacco-Use Prevention Policies</b>															
Percentage of schools that have adopted a policy prohibiting tobacco use				99.6	99.3	99.1	97.3	98.8	98.9	99.6	96.5	100.0	No linear change	†	Increased
Percentage of schools that follow a policy that mandates a “tobacco-free environment”				46.0	0.0	57.4	65.0	69.9	68.0	72.1	72.0	78.4	Increased, 2004-2020	†	No change
Percentage of schools that follow a policy that mandates a “tobacco-free environment” including prohibiting electronic vapor products										67.0	71.3	78.3	Increased, 2016-2020	Not available	No change

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

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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	2020			
<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						36.6	36.8	32.1	33.6	32.4	32.3	34.8	No linear change	No quadratic change	No change
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				92.1	94.0	80.5	80.3	83.8	83.8	76.9	74.6	73.8	Decreased, 2004-2020	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				68.2	56.4	40.0	37.7	44.0	41.0	11.9	15.5	16.4	Decreased, 2004-2020	No quadratic change	No change
Other kinds of candy				70.4	66.0	47.4	50.3	49.9	54.4	23.9	22.0	24.4	Decreased, 2004-2020	No quadratic change	No change
Salty snacks that are not low in fat (e.g., regular potato chips)				80.1	69.9	43.4	45.8	49.3	49.8	17.9	24.8	24.4	Decreased, 2004-2020	Decreased, 2004-2014 Decreased, 2014-2020	No change
Low sodium or “no added salt” pretzels, crackers, or chips									68.6	63.6	57.2	55.3	Decreased, 2014-2020	Not available	No change

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Cookies, crackers, cakes, pastries, or other baked goods that are not low in fat						41.6	45.9	50.3	49.1	20.4	24.3	25.9	Decreased, 2008-2020	No change, 2008-2012 Decreased, 2012-2020	No change
Ice cream or frozen yogurt that is not low in fat						19.2	20.4	21.9	22.5	8.9	11.7	13.2	Decreased, 2008-2020	No quadratic change	No change
2% or whole milk (plain or flavored)					49.2	45.6	39.0	36.7	36.7	27.8	22.8	21.2	Decreased, 2006-2020	No quadratic change	No change
Nonfat or 1% (low-fat) milk (plain)									43.9	42.9	36.7	32.9	Decreased, 2014-2020	Not available	No change
Water ices or frozen slushes that do not contain juice						17.1	20.7	19.7	20.8	18.1	18.0	17.8	No linear change	No quadratic change	No change
Soda pop or fruit drinks that are not 100% juice					76.0	49.6	40.5	44.0	43.8	22.0	22.4	22.5	Decreased, 2006-2020	Decreased, 2006-2010 Decreased, 2010-2020	No change
Sports drinks (e.g., Gatorade)					86.6	67.1	58.2	66.6	60.6	51.2	40.9	45.7	Decreased, 2006-2020	Decreased, 2006-2010 Decreased, 2010-2020	No change

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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:															
Energy drinks (e.g., Red Bull, Monster)									4.6	1.5	4.4	3.0	No linear change	Not available	No change
Plain water, with or without carbonation											69.0	67.1	No linear change	Not available	No change
Calorie-free, flavored water, with or without carbonation											47.1	47.4	No linear change	Not available	No change
100% fruit or vegetable juice									59.4	55.6	47.0	51.3	Decreased, 2014-2020	Not available	No change
Foods or beverages containing caffeine						46.8	41.6	42.7	40.7	21.6	24.6	25.6	Decreased, 2008-2020	No quadratic change	No change
Fruits (not fruit juice)						31.0	32.4	32.2	35.7	26.4	32.9	31.7	No linear change	No quadratic change	No change
Non-fried vegetables (not vegetable juice)						22.7	24.9	27.2	27.2	20.0	25.3	24.3	No linear change	No quadratic change	No change
Percentage of schools that do not sell less healthy foods and beverages (soda pop or fruit drinks, sports drinks, baked goods, salty snacks, candy)				8.7	6.1	23.6	28.8	23.5	22.7	40.3	45.1	41.3	Increased, 2004-2020	Increased, 2004-2008 Increased, 2008-2020	No change

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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						11.9	10.6	9.6	8.3	7.5	9.5	13.5	No linear change	No change, 2008-2016 No change, 2016-2020	No change
Collected suggestions from students, families, and school staff on nutritious food preferences and strategies to promote healthy eating						44.9	42.9	45.2	48.4	47.9	46.0	44.0	No linear change	No quadratic change	No change
Provided information to students or families on the nutrition and caloric content of foods available						44.3	47.4	53.8	53.8	59.5	59.2	60.6	Increased, 2008-2020	No quadratic change	No change
Conducted taste tests to determine food preferences for nutritious items						21.3	25.7	29.2	31.4	43.6	44.2	51.9	Increased, 2008-2020	No quadratic change	No change
Served locally or regionally grown foods in the cafeteria or classrooms								42.3	43.9	45.9	47.8	52.9	Increased, 2012-2020	Not available	No change
Planted a school food or vegetable garden								23.2	30.7	40.1	41.9	38.7	Increased, 2012-2020	Not available	No change
Placed fruits and vegetables near the cafeteria cashier, where they are easy to access								74.7	72.9	80.2	81.0	89.3	Increased, 2012-2020	Not available	Increased

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	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools that have done any of the following during the current school year:															
Used attractive displays for fruits and vegetables in the cafeteria								66.5	68.7	71.8	76.2	77.1	Increased, 2012-2020	Not available	No change
Offered a self-serve salad bar to students								23.9	24.3	24.9	35.0	38.2	Increased, 2012-2020	Not available	No change
Encouraged students to drink plain water									80.5	79.8	83.3	88.5	Increased, 2014-2020	Not available	No change
Prohibited school staff from giving students food or food coupons as a reward for good behavior or good academic performance									19.8	31.3	34.9	29.9	Increased, 2014-2020	Not available	No change
Prohibited less nutritious foods and beverages (e.g. candy, baked goods) from being sold for fundraising purposes									20.8	51.0	45.4	35.8	Increased, 2014-2020	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,  $p < 0.05$ .

**SOUTH CAROLINA**  
**2020 School Health Profiles Report**  
**Trend Analysis Report - Principal Survey**

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools that prohibit advertisements for candy, fast food restaurants, or soft drinks in the following locations:															
In school buildings						65.8	66.2	62.0	61.2	66.1	72.6	77.5	Increased, 2008-2020	No change, 2008-2014 Increased, 2014-2020	No change
On school grounds including on the outside of the school building, on playing fields, or other areas of the campus						56.5	57.1	44.0	50.9	50.6	57.4	66.2	Increased, 2008-2020	Decreased, 2008-2012 Increased, 2012-2020	No change
On school buses or other vehicles used to transport students						73.4	75.5	75.3	77.9	76.5	76.9	79.4	No linear change	No quadratic change	No change
In school publications (e.g., newsletters, newspapers, web sites, other school publications)						56.6	59.3	50.9	57.8	61.4	63.9	69.9	Increased, 2008-2020	No change, 2008-2012 Increased, 2012-2020	No change
In curricula or other educational materials (including assignment books, school supplies, book covers, and electronic media)									64.8	66.3	67.7	73.8	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,  $p < 0.05$ .

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**2020 School Health Profiles Report**  
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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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								92.0	90.8	94.7	93.9	97.0	Increased, 2012-2020	Not available	No change
Percentage of schools that offer a free source of drinking water in the following locations:*															
Cafeteria during breakfast									95.6	91.1	94.6	98.2	No linear change	Not available	No change
Cafeteria during lunch									96.1	93.4	95.6	98.2	No linear change	Not available	No change
Gymnasium or other indoor physical activity facilities									97.4	96.2	97.6	96.7	No linear change	Not available	No change
Outdoor physical activity facilities and sports fields									79.5	75.7	79.7	85.7	No linear change	Not available	No change
Hallways throughout the school									99.2	99.7	99.1	99.3	No linear change	Not available	No change

\* 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,  $p < 0.05$ .

# SOUTH CAROLINA

## 2020 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
<b>Health Services</b>															
Percentage of schools that have a full-time registered nurse who provides health services to students						82.7	82.5	80.8	85.5	85.3	86.0	89.7	Increased, 2008-2020	No quadratic change	No change
Percentage of schools that have a part-time registered nurse who provides health services to students										21.8	23.8	21.8	No linear change	Not available	No change
Percentage of schools that have a school-based health center that offers health services to students										23.6	23.7	22.1	No linear change	Not available	No change
Percentage of schools that provide the following services to students:															
HIV testing								2.8	0.7	0.0	0.5	0.6	No linear change	Not available	No change
HIV treatment									0.3	0.0	1.5	1.3	No linear change	Not available	No change
STD testing									0.4	0.0	0.9	1.2	No linear change	Not available	No change
STD treatment									0.7	0.0	0.9	0.6	No linear change	Not available	No change
Pregnancy testing								2.4	1.9	0.0	0.9	1.2	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,  $p < 0.05$ .

# SOUTH CAROLINA

## 2020 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools that provide the following services to students:															
Provision of condoms								1.2	1.5	0.0	0.5	0.0	Decreased, 2012-2020	Not available	No change
Provision of condom-compatible lubricants (i.e., water- or silicone-based)									0.0	0.0	0.5	0.0	Increased, 2014-2020	Not available	No change
Provision of contraceptives other than condoms (e.g., birth control pill, birth control shot, intrauterine device [IUD])								0.8	0.4	0.0	0.5	0.6	No linear change	Not available	No change
Prenatal care								6.3	3.4	0.4	1.5	0.0	Decreased, 2012-2020	Not available	No change
Human papillomavirus (HPV) vaccine administration								2.0	0.4	0.4	2.0	0.6	No linear change	Not available	No change
Assessment for alcohol or other drug use, abuse, or dependency											12.2	6.1	Decreased, 2018-2020	Not available	Decreased
Daily medication administration for students with chronic health conditions (e.g., asthma, diabetes)											85.8	83.4	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,  $p < 0.05$ .

# SOUTH CAROLINA

## 2020 School Health Profiles Report Trend Analysis Report - Principal Survey

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools that provide the following services to students:															
Stock rescue or “as needed” medication for any student experiencing a health emergency (e.g., asthma episode, severe allergic reaction)											71.4	76.5	No linear change	Not available	No change
Case management for students with chronic health conditions (e.g., asthma, diabetes)											69.3	72.6	No linear change	Not available	No change
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								45.6	36.2	25.7	22.2	12.7	Decreased, 2012-2020	Not available	Decreased
HIV treatment									35.3	26.4	25.9	17.2	Decreased, 2014-2020	Not available	Decreased
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)										25.9	24.8	15.6	Decreased, 2016-2020	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,  $p < 0.05$ .

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**2020 School Health Profiles Report**  
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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools that provide students with referrals to any organizations or health care professionals not on school property for the following services:															
STD testing									38.4	26.4	20.8	12.9	Decreased, 2014-2020	Not available	Decreased
STD treatment									37.2	25.3	21.3	11.3	Decreased, 2014-2020	Not available	Decreased
Pregnancy testing								49.4	41.0	27.8	21.1	14.4	Decreased, 2012-2020	Not available	No change
Provision of condoms								26.7	24.8	20.2	17.6	8.0	Decreased, 2012-2020	Not available	Decreased
Provision of condom-compatible lubricants (i.e., water- or silicone-based)									22.8	18.7	17.0	8.6	Decreased, 2014-2020	Not available	Decreased
Provision of contraceptives other than condoms (e.g., birth control pill, birth control shot, intrauterine device [IUD])								28.2	24.2	20.5	17.5	9.2	Decreased, 2012-2020	Not available	Decreased
Prenatal care								48.6	40.7	25.8	23.4	15.4	Decreased, 2012-2020	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,  $p < 0.05$ .



**SOUTH CAROLINA**  
**2020 School Health Profiles Report**  
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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools that provide students with referrals to any organizations or health care professionals not on school property for the following services:															
Human papillomavirus (HPV) vaccine administration								37.2	31.4	27.2	26.1	20.8	Decreased, 2012-2020	Not available	No change
Alcohol or other drug abuse treatment											46.0	48.4	No linear change	Not available	No change
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								69.6	65.9	59.6	60.4		Decreased, 2014-2020	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,  $p < 0.05$ .

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**2020 School Health Profiles Report**  
**Trend Analysis Report - Principal Survey**

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools that routinely use school records to identify and track students with a current diagnosis of the following chronic conditions:															
Asthma									97.8	97.7	96.0	95.0	No linear change	Not available	No change
Food allergies									97.1	98.1	96.5	95.0	No linear change	Not available	No change
Diabetes									97.0	97.7	95.4	95.5	No linear change	Not available	No change
Epilepsy or seizure disorder									97.1	97.3	95.4	94.9	No linear change	Not available	No change
Obesity									46.8	48.6	41.0	38.3	Decreased, 2014-2020	Not available	No change
Hypertension/high blood pressure									88.5	86.1	74.1	78.8	Decreased, 2014-2020	Not available	No change
Oral health condition (e.g., abscess, tooth decay)											56.5	61.9	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,  $p < 0.05$ .

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**2020 School Health Profiles Report**  
**Trend Analysis Report - Principal Survey**

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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									59.6	56.2	47.7	42.3	Decreased, 2014-2020	Not available	No change
Food allergies									58.8	54.7	46.7	40.4	Decreased, 2014-2020	Not available	No change
Diabetes									59.1	55.9	47.3	41.1	Decreased, 2014-2020	Not available	No change
Epilepsy or seizure disorder									56.9	54.7	47.3	38.4	Decreased, 2014-2020	Not available	No change
Obesity									45.7	39.6	36.9	32.3	Decreased, 2014-2020	Not available	No change
Hypertension/high blood pressure									55.7	53.3	43.8	40.2	Decreased, 2014-2020	Not available	No change
Oral health condition (e.g., abscess, tooth decay)											51.4	48.9	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,  $p < 0.05$ .

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**2020 School Health Profiles Report**  
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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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										79.6	82.9	86.4	No linear change	Not available	No change
Parental consent is required before any sexual or reproductive health services are provided										17.3	11.5	11.7	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										0.0	0.5	0.6	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										1.2	1.5	1.2	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,  $p < 0.05$ .

**SOUTH CAROLINA**  
**2020 School Health Profiles Report**  
**Trend Analysis Report - Principal Survey**

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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										2.0	3.6	0.0	Decreased, 2016-2020	Not available	Decreased
Parental consent is not required for sexual or reproductive health services and parents are not notified about any services provided										0.0	0.0	0.0	§	Not available	¶
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										63.4	68.0	75.9	Increased, 2016-2020	Not available	No change
Parental consent is required before any sexual or reproductive health services are referred										27.0	21.8	21.4	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,  $p < 0.05$ .

§ Analysis cannot be conducted when response rates are 100% for a census or prevalence estimates are all 0% or 100%.

¶ Analysis cannot be conducted when response rates are 100% for a census or 2018 and 2020 prevalence estimates are both 0% or 100%.

**SOUTH CAROLINA**  
**2020 School Health Profiles Report**  
**Trend Analysis Report - Principal Survey**

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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										1.7	1.1	0.7	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 referral provided										6.0	3.4	0.7	Decreased, 2016-2020	Not available	No change
Parental consent is not required for sexual or reproductive health services, but parents are notified about all referrals provided										1.2	3.3	0.7	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 referrals provided										0.8	2.3	0.7	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,  $p < 0.05$ .

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**2020 School Health Profiles Report**  
**Trend Analysis Report - Principal Survey**

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
<b>Family and Community Involvement</b>															
Percentage of schools that have done any of the following activities during the current school year:															
Provided parents with information about how to monitor their teen									61.2	51.3	49.3	48.7	Decreased, 2014-2020	Not available	No change
Involved parents as school volunteers in the delivery of health education activities and services									28.5	20.4	18.2	18.7	Decreased, 2014-2020	Not available	No change
Linked parents and families to health services and programs in the community									75.2	69.1	69.4	67.5	No linear change	Not available	No change
Provided disease-specific education for parents and families of students with chronic health conditions (e.g., asthma, diabetes)											36.7	38.4	No linear change	Not available	No change
Percentage of schools in which students' families helped develop or implement policies and programs related to school health during the past two years									42.5	38.3	37.9	37.9	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,  $p < 0.05$ .

**SOUTH CAROLINA**  
**2020 School Health Profiles Report**  
**Trend Analysis Report - Lead Health Education Teacher Survey**

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
<b>Required Health Education</b>															
Percentage of schools in which students take only one required health education course	31.0			38.0	42.0	28.4	38.1	34.9	36.8	35.5	38.3	46.4	Increased, 1998-2020	No quadratic change	No change
Percentage of schools in which students take two or more required health education courses	36.3			31.1	34.7	47.0	43.4	40.1	40.7	40.1	44.9	32.0	No linear change	Increased, 1998-2010 No change, 2010-2020	No change
Percentage of schools that taught a required health education course in the following grades:*															
6th grade	47.8			51.0	63.7	59.8	64.7	56.1	54.2	51.2	65.3	52.7	No linear change	Increased, 1998-2006 No change, 2006-2020	No change
7th grade	53.8			53.8	65.6	61.4	66.3	59.4	58.1	56.1	69.3	56.4	No linear change	No quadratic change	No change
8th grade	54.7			52.1	65.6	61.8	66.2	58.3	58.8	56.1	67.4	56.5	No linear change	No quadratic change	No change

\* The 2008-2020 results published here may differ slightly from the 2008-2020 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,  $p < 0.05$ .



## SOUTH CAROLINA

### 2020 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools that taught a required health education course in the following grades:*															
9th grade	40.1			44.3	55.3	50.9	56.1	47.0	49.0	50.1	58.6	59.9	Increased, 1998-2020	No quadratic change	No change
10th grade	24.6			26.6	23.4	27.4	18.5	22.3	22.9	15.1	18.3	30.8	No linear change	No quadratic change	No change
11th grade	21.8			20.4	19.0	21.9	13.8	17.9	18.3	12.7	16.8	26.1	No linear change	No quadratic change	No change
12th grade	22.4			22.0	18.4	21.9	13.9	17.9	18.3	12.7	17.0	26.5	No linear change	No quadratic change	No change
Among schools that required a health education course, percentage that required students who fail the course to repeat it				37.1	35.0	35.3	36.1	32.5	38.9	36.5	39.2	48.6	Increased, 2004-2020	No change, 2004-2016 Increased, 2016-2020	No change
Percentage of schools in which those who teach health education are provided with the following materials:															
Goals, objectives, and expected outcomes for health education						88.8	88.6	84.0	82.7	79.5	89.4	81.7	Decreased, 2008-2020	No quadratic change	Decreased

\* The 2008-2020 results published here may differ slightly from the 2008-2020 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,  $p < 0.05$ .

**SOUTH CAROLINA**  
**2020 School Health Profiles Report**  
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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools in which those who teach health education are provided with the following materials:															
A chart describing the annual scope and sequence of instruction for health education						65.1	62.1	58.6	60.2	60.0	64.7	64.2	No linear change	No quadratic change	No change
Plans for how to assess student performance in health education						68.2	67.8	61.2	61.0	62.9	70.4	62.0	No linear change	No quadratic change	No change
A written health education curriculum						84.5	74.8	69.5	70.3	69.7	79.0	69.7	Decreased, 2008-2020	Decreased, 2008-2012 No change, 2012-2020	No change
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						93.3	91.2	89.4	89.0	89.0	89.0	74.0	Decreased, 2008-2020	No change, 2008-2016 Decreased, 2016-2020	Decreased
Analyzing the influence of family, peers, culture, media, technology, and other factors on health behaviors						91.5	89.1	87.4	86.6	87.4	86.0	72.4	Decreased, 2008-2020	No quadratic change	Decreased
Accessing valid information and products and services to enhance health						83.8	82.7	80.1	80.5	81.9	82.9	68.0	Decreased, 2008-2020	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,  $p < 0.05$ .

**SOUTH CAROLINA**  
**2020 School Health Profiles Report**  
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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools in which the health education curriculum addresses the following skills:															
Using interpersonal communication skills to enhance health and avoid or reduce health risks						91.0	88.3	87.5	89.0	87.4	85.4	71.5	Decreased, 2008-2020	No change, 2008-2016 Decreased, 2016-2020	Decreased
Using decision-making skills to enhance health						92.7	90.0	91.5	89.4	89.7	90.9	73.0	Decreased, 2008-2020	No change, 2008-2016 Decreased, 2016-2020	Decreased
Using goal-setting skills to enhance health						91.5	90.9	90.2	88.2	86.7	88.4	73.6	Decreased, 2008-2020	No change, 2008-2016 Decreased, 2016-2020	Decreased
Practicing health-enhancing behaviors to avoid or reduce risks						90.8	90.0	90.8	89.8	89.6	89.8	72.7	Decreased, 2008-2020	No change, 2008-2016 Decreased, 2016-2020	Decreased
Advocating for personal, family, and community health						89.0	87.4	87.2	86.7	85.5	85.4	71.6	Decreased, 2008-2020	No change, 2008-2016 Decreased, 2016-2020	Decreased

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

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

**SOUTH CAROLINA**  
**2020 School Health Profiles Report**  
**Trend Analysis Report - Lead Health Education Teacher Survey**

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools in which those who teach sexual health education are provided with the following materials:															
A written health education curriculum that includes objectives and content addressing sexual health education									84.8	82.7	88.7	80.3	No linear change	Not available	Decreased
Strategies that are age-appropriate, relevant, and actively engage students in learning									82.3	82.2	88.8	80.1	No linear change	Not available	Decreased
Methods to assess student knowledge and skills related to sexual health education									77.4	75.9	82.6	75.3	No linear change	Not available	No change
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							11.5	11.8	14.9	25.1	40.4	34.7	Increased, 2010-2020	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools in which health education instruction is required in any of grades 6 through 12						80.1	78.0	75.8	72.2	85.4	85.3		Increased, 2010-2020	Decreased, 2010-2016 Increased, 2016-2020	No change
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						91.1	92.4	89.3	86.8	85.0	92.5	77.7	Decreased, 2008-2020	No quadratic change	Decreased
Asthma						50.4	58.5	55.9	59.0	52.2	57.1	45.8	No linear change	No change, 2008-2014 Decreased, 2014-2020	Decreased
Chronic disease prevention										83.6	84.5	73.4	Decreased, 2016-2020	Not available	Decreased
Emotional and mental health						85.7	88.7	82.8	83.0	77.8	82.9	75.5	Decreased, 2008-2020	No quadratic change	No change
Epilepsy or seizure disorder									38.9	35.4	34.3	35.2	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,  $p < 0.05$ .

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	Prevalence												Linear Change¹	Quadratic Change¹	2018-2020 Change²
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Food allergies									59.0	53.3	58.5	50.8	No linear change	Not available	No change
Foodborne illness prevention						64.8	68.3	61.6	56.4	52.5	59.6	47.1	Decreased, 2008-2020	No quadratic change	Decreased
Human immunodeficiency virus (HIV) prevention						88.3	91.0	89.8	86.5	85.2	92.3	74.2	Decreased, 2008-2020	No change, 2008-2012 Decreased, 2012-2020	Decreased
Human sexuality						86.1	89.2	84.2	76.4	78.8	77.1	66.7	Decreased, 2008-2020	No quadratic change	Decreased
Infectious disease prevention (e.g., influenza [flu] prevention)								77.1	78.2	70.2	80.9	65.9	Decreased, 2012-2020	Not available	Decreased
Injury prevention and safety						86.7	84.4	81.1	80.6	79.8	85.4	71.0	Decreased, 2008-2020	No quadratic change	Decreased
Nutrition and dietary behavior						92.6	95.7	93.4	91.2	92.4	95.0	78.5	Decreased, 2008-2020	No change, 2008-2016 Decreased, 2016-2020	Decreased

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

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

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Physical activity and fitness						97.7	98.2	96.6	95.9	96.9	98.4	82.2	Decreased, 2008-2020	No change, 2008-2016 Decreased, 2016-2020	Decreased
Pregnancy prevention						83.6	87.5	83.1	81.0	84.0	89.3	72.3	Decreased, 2008-2020	No quadratic change	Decreased
Sexually transmitted disease (STD) prevention						86.6	91.6	86.7	85.3	86.7	90.7	74.9	Decreased, 2008-2020	No change, 2008-2016 Decreased, 2016-2020	Decreased
Suicide prevention						60.5	59.4	54.5	60.4	52.5	73.4	66.5	Increased, 2008-2020	No change, 2008-2012 Increased, 2012-2020	No change
Tobacco-use prevention						90.8	91.4	86.6	86.1	84.0	90.0	76.1	Decreased, 2008-2020	No quadratic change	Decreased
Violence prevention (e.g., bullying, fighting, dating violence prevention)						81.9	86.1	88.9	86.4	86.2	91.0	78.8	No linear change	Increased, 2008-2012 Decreased, 2012-2020	Decreased

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

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

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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						81.0	84.0	77.7	80.2	76.4	83.1	70.6	Decreased, 2008-2020	No quadratic change	Decreased
Identifying short- and long-term health consequences of tobacco product use						82.7	86.0	81.3	82.5	77.4	82.1	70.4	Decreased, 2008-2020	No quadratic change	Decreased
Identifying social, economic, and cosmetic consequences of tobacco product use						76.6	79.4	76.3	75.2	72.1	79.8	67.9	No linear change	No quadratic change	Decreased
Understanding the addictive nature of nicotine						79.3	83.8	76.2	77.3	72.7	80.1	69.7	Decreased, 2008-2020	No quadratic change	Decreased
Effects of nicotine on the adolescent brain										64.7	73.9	66.5	No linear change	Not available	No change
Effects of tobacco product use on athletic performance						79.5	81.7	77.4	75.1	71.0	75.5	67.9	Decreased, 2008-2020	No quadratic change	No change
Effects of second-hand smoke and benefits of a smoke-free environment						82.5	81.6	78.1	78.9	74.3	78.4	68.6	Decreased, 2008-2020	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,  $p < 0.05$ .



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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Understanding the social influences on tobacco product use, including media, family, peers and culture						75.6	82.0	75.1	78.4	74.3	80.4	69.1	No linear change	No quadratic change	Decreased
Identifying reasons why students do and do not use tobacco products						78.0	83.1	77.5	77.2	72.0	78.5	67.5	Decreased, 2008-2020	No quadratic change	Decreased
Making accurate assessments of how many peers use tobacco products						62.2	66.3	62.8	62.1	58.1	63.6	59.2	No linear change	No quadratic change	No change
Using interpersonal communication skills to avoid tobacco product use (e.g., refusal skills, assertiveness)						77.2	80.7	76.0	75.3	72.0	78.5	69.3	Decreased, 2008-2020	No quadratic change	Decreased
Using goal-setting and decision-making skills related to not using tobacco products						76.1	78.6	71.9	72.1	66.5	77.4	65.2	Decreased, 2008-2020	No quadratic change	Decreased
Finding valid information and services related to tobacco-use prevention and cessation						70.6	71.9	64.0	63.5	60.6	69.1	57.9	Decreased, 2008-2020	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Supporting others who abstain from or want to quit using tobacco products						71.3	74.1	68.1	68.6	65.6	71.3	61.1	Decreased, 2008-2020	No quadratic change	Decreased
Identifying harmful effects of tobacco product use on fetal development						75.5	80.8	73.4	73.2	69.9	73.5	63.0	Decreased, 2008-2020	No quadratic change	Decreased
Relationship between using tobacco products and alcohol or other drugs									76.0	71.9	78.7	64.7	No linear change	Not available	Decreased
How addiction to tobacco product use can be treated									68.4	66.9	72.6	60.1	No linear change	Not available	Decreased
Understanding school policies and community laws related to the sale and use of tobacco products									75.3	71.7	74.8	64.3	Decreased, 2014-2020	Not available	Decreased
Benefits of tobacco product cessation programs									55.0	55.6	58.3	49.7	No linear change	Not available	No change
Percentage of schools that taught all 19 tobacco-use prevention topics during the current school year											50.1	41.6	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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						89.2	89.4	84.9	82.7	80.8	83.7	62.8	Decreased, 2008-2020	No quadratic change	Decreased
Health consequences of HIV, other STDs, and pregnancy						89.2	86.9	82.6	81.5	80.8	80.6	63.2	Decreased, 2008-2020	No quadratic change	Decreased
The benefits of being sexually abstinent						89.2	89.9	87.0	83.8	82.0	84.6	62.8	Decreased, 2008-2020	No quadratic change	Decreased
How to access valid and reliable health information, products, and services related to HIV, other STDs, and pregnancy						73.4	73.7	67.0	68.6	62.1	78.4	52.7	Decreased, 2008-2020	No quadratic change	Decreased
The influences of family, peers, media, technology, and other factors on sexual risk behaviors									79.9	80.5	84.6	62.1	Decreased, 2014-2020	Not available	Decreased
Communication and negotiation skills related to eliminating or reducing risk for HIV, other STDs, and pregnancy						83.4	81.1	76.5	77.1	73.6	80.7	55.9	Decreased, 2008-2020	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Goal-setting and decision-making skills related to eliminating or reducing risk for HIV, other STDs, and pregnancy						84.1	84.6	77.3	77.6	74.3	79.5	59.0	Decreased, 2008-2020	No quadratic change	Decreased
Influencing and supporting others to avoid or reduce sexual risk behaviors									82.0	75.5	75.9	60.0	Decreased, 2014-2020	Not available	Decreased
Efficacy of condoms, that is, how well condoms work and do not work							57.7	45.8	52.1	48.0	55.2	38.6	No linear change	No quadratic change	Decreased
The importance of using condoms consistently and correctly							45.7	37.1	42.0	36.8	47.5	28.6	No linear change	No quadratic change	Decreased
How to obtain condoms							29.4	21.1	29.7	27.2	36.2	18.2	No linear change	No quadratic change	Decreased
How to correctly use a condom							21.9	16.1	27.8	24.1	34.1	17.0	No linear change	No quadratic change	Decreased
Methods of contraception other than condoms										45.2	49.6	37.1	No linear change	Not available	No change

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

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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 using a condom at the same time as another form of contraception to prevent both STDs and pregnancy								28.2	46.4	40.2	46.5	33.9	No linear change	Not available	No change
How to create and sustain healthy and respectful relationships								76.4	82.0	77.1	87.4	60.0	Decreased, 2012-2020	Not available	Decreased
The importance of limiting the number of sexual partners									65.9	62.3	64.3	52.8	No linear change	Not available	No change
Preventive care (such as screenings and immunizations) that is necessary to maintain reproductive and sexual health									67.7	59.5	64.2	53.7	No linear change	Not available	No change
The relationship between alcohol and other drug use and sexual risk behaviors											78.1	54.0	Decreased, 2018-2020	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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							93.9	87.5	89.4	89.1	94.8	92.5	No linear change	No quadratic change	No change
Health consequences of HIV, other STDs, and pregnancy							91.8	86.5	90.4	89.1	93.3	92.5	No linear change	No quadratic change	No change
The benefits of being sexually abstinent						89.9	93.9	87.5	88.4	90.0	93.5	93.9	No linear change	No quadratic change	No change
How to access valid and reliable health information, products, and services related to HIV, other STDs, and pregnancy						84.6	88.9	84.8	81.5	87.9	88.0	91.0	No linear change	No quadratic change	No change
The influences of family, peers, media, technology, and other factors on sexual risk behaviors									86.5	88.0	89.5	93.9	No linear change	Not available	No change
Communication and negotiation skills related to eliminating or reducing risk for HIV, other STDs, and pregnancy						84.6	88.3	84.0	81.5	87.0	92.2	91.1	No linear change	No quadratic change	No change

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

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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						84.6	89.0	83.8	84.3	87.0	93.5	92.4	Increased, 2008-2020	No quadratic change	No change
Influencing and supporting others to avoid or reduce sexual risk behaviors									84.2	86.0	93.3	89.1	No linear change	Not available	No change
Efficacy of condoms, that is, how well condoms work and do not work						72.4	82.9	80.2	72.7	75.4	85.2	86.2	No linear change	No quadratic change	No change
The importance of using condoms consistently and correctly						65.4	80.0	77.5	66.9	72.4	79.9	77.6	No linear change	No quadratic change	No change
How to obtain condoms						51.3	65.5	61.4	55.4	55.3	60.3	74.6	No linear change	No quadratic change	No change
How to correctly use a condom							61.1	60.7	63.3	52.8	63.2	67.4	No linear change	No quadratic change	No change
Methods of contraception other than condoms										76.7	82.6	84.7	No linear change	Not available	No change

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

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
The importance of using a condom at the same time as another form of contraception to prevent both STDs and pregnancy								68.5	73.0	73.7	81.3	84.9	Increased, 2012-2020	Not available	No change
How to create and sustain healthy and respectful relationships								82.6	81.3	91.0	92.2	95.5	Increased, 2012-2020	Not available	No change
The importance of limiting the number of sexual partners									81.1	85.2	85.3	89.3	No linear change	Not available	No change
Preventive care (such as screenings and immunizations) that is necessary to maintain reproductive and sexual health									82.5	86.3	83.1	91.0	No linear change	Not available	No change
The relationship between alcohol and other drug use and sexual risk behaviors											90.7	92.7	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,  $p < 0.05$ .



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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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									74.2	69.9	71.7	53.0	Decreased, 2014-2020	Not available	Decreased
Analyze the influence of family, peers, culture, media, technology, and other factors on sexual risk behaviors									70.7	65.6	71.4	49.9	Decreased, 2014-2020	Not available	Decreased
Access valid information, products, and services to prevent HIV, other STDs, and pregnancy									62.5	54.6	61.3	45.8	No linear change	Not available	Decreased
Use interpersonal communication skills to avoid or reduce sexual risk behaviors									69.4	67.4	71.5	52.0	Decreased, 2014-2020	Not available	Decreased
Use decision-making skills to prevent HIV, other STDs, and pregnancy									73.8	68.9	77.5	54.2	Decreased, 2014-2020	Not available	Decreased
Set personal goals that enhance health, take steps to achieve these goals, and monitor progress in achieving them									67.5	68.7	75.5	58.0	No linear change	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Influence and support others to avoid or reduce sexual risk behaviors									70.4	67.4	70.4	52.2	Decreased, 2014-2020	Not available	Decreased
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									85.4	82.0	93.3	89.6	No linear change	Not available	No change
Analyze the influence of family, peers, culture, media, technology, and other factors on sexual risk behaviors									80.5	78.1	89.3	89.6	Increased, 2014-2020	Not available	No change
Access valid information, products, and services to prevent HIV, other STDs, and pregnancy									79.6	76.3	89.2	89.6	Increased, 2014-2020	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Use interpersonal communication skills to avoid or reduce sexual risk behaviors									80.5	79.1	90.6	89.7	Increased, 2014-2020	Not available	No change
Use decision-making skills to prevent HIV, other STDs, and pregnancy									82.5	81.1	92.0	91.1	Increased, 2014-2020	Not available	No change
Set personal goals that enhance health, take steps to achieve these goals, and monitor progress in achieving them									78.8	82.3	87.8	87.0	No linear change	Not available	No change
Influence and support others to avoid or reduce sexual risk behaviors									75.6	77.3	90.5	88.4	Increased, 2014-2020	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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						88.9	92.8	90.6	86.9	85.1	91.1	76.4	Decreased, 2008-2020	No change, 2008-2012 Decreased, 2012-2020	Decreased
Benefits of drinking plenty of water									87.2	85.9	91.5	76.4	Decreased, 2014-2020	Not available	Decreased
Benefits of eating breakfast every day										82.1	88.5	71.2	Decreased, 2016-2020	Not available	Decreased
Food guidance using the current Dietary Guidelines for Americans (e.g., MyPlate)									80.2	75.3	83.1	68.9	Decreased, 2014-2020	Not available	Decreased
Using food labels						81.1	84.2	79.0	75.9	72.2	84.7	68.4	Decreased, 2008-2020	No quadratic change	Decreased
Differentiating between nutritious and non-nutritious beverages									77.3	77.5	87.6	70.7	No linear change	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,  $p < 0.05$ .

# SOUTH CAROLINA

## 2020 School Health Profiles Report

### Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Balancing food intake and physical activity						87.4	91.3	88.9	85.6	84.3	89.5	75.7	Decreased, 2008-2020	No quadratic change	Decreased
Eating more fruits, vegetables, and whole grain products						86.0	89.5	84.9	82.2	80.2	88.2	73.7	Decreased, 2008-2020	No quadratic change	Decreased
Choosing foods and snacks that are low in solid fat (i.e., saturated and trans fat)						81.2	88.3	83.6	76.6	76.4	83.2	67.8	Decreased, 2008-2020	No quadratic change	Decreased
Choosing foods, snacks, and beverages that are low in added sugars									77.9	76.4	85.6	71.3	No linear change	Not available	Decreased
Choosing foods and snacks that are low in sodium									74.9	73.1	79.0	65.3	No linear change	Not available	Decreased
Eating a variety of foods that are high in calcium									72.5	70.7	77.0	59.8	Decreased, 2014-2020	Not available	Decreased
Eating a variety of foods that are high in iron									69.6	67.0	74.4	59.8	No linear change	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Food safety						74.6	77.7	72.0	68.7	65.4	78.9	60.6	Decreased, 2008-2020	No quadratic change	Decreased
Preparing healthy meals and snacks						75.9	84.0	78.8	74.2	73.2	85.6	64.2	Decreased, 2008-2020	No quadratic change	Decreased
Risks of unhealthy weight control practices						81.0	89.5	83.4	77.4	79.3	85.4	67.9	Decreased, 2008-2020	No quadratic change	Decreased
Accepting body size differences						78.4	87.6	81.4	80.5	77.3	84.3	68.9	Decreased, 2008-2020	No change, 2008-2012 Decreased, 2012-2020	Decreased
Signs, symptoms, and treatment for eating disorders						76.5	81.8	73.8	71.0	67.2	73.7	60.2	Decreased, 2008-2020	No quadratic change	Decreased
Relationship between diet and chronic diseases									71.9	70.1	77.8	62.9	No linear change	Not available	Decreased
Assessing body mass index (BMI)									77.6	78.9	85.1	71.5	No linear change	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
The influence of the media on dietary behaviors											81.5	67.8	Decreased, 2018-2020	Not available	Decreased
Food production, including how food is grown, harvested, processed, packaged, and transported											62.2	52.4	No linear change	Not available	No change
Percentage of schools that taught all 22 nutrition and dietary behavior topics during the current school year											51.9	44.2	No linear change	Not available	No change
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									91.5	90.5	96.9	79.5	Decreased, 2014-2020	Not available	Decreased
Mental and social benefits of physical activity									90.3	86.9	96.4	79.0	Decreased, 2014-2020	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Health-related fitness (i.e., cardiorespiratory endurance, muscular endurance, muscular strength, flexibility, and body composition)						95.5	95.6	95.0	93.0	91.9	97.4	80.6	Decreased, 2008-2020	No change, 2008-2014 Decreased, 2014-2020	Decreased
Phases of a workout (i.e., warm-up, workout, cool down)						92.4	94.5	92.2	91.0	91.4	95.8	80.2	Decreased, 2008-2020	No change, 2008-2016 Decreased, 2016-2020	Decreased
Recommended amounts and types of moderate, vigorous, muscle-strengthening, and bone-strengthening physical activity									84.0	86.7	92.8	77.9	No linear change	Not available	Decreased
Decreasing sedentary activities (e.g., television viewing)						92.7	91.8	90.9	87.9	87.6	93.3	78.6	Decreased, 2008-2020	No quadratic change	Decreased
Preventing injury during physical activity						91.7	93.6	89.4	88.9	87.9	92.3	78.1	Decreased, 2008-2020	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,  $p < 0.05$ .



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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Weather-related safety (e.g., avoiding heat stroke, hypothermia, and sunburn while physically active)						83.9	85.5	81.7	78.3	76.5	80.5	64.1	Decreased, 2008-2020	No quadratic change	Decreased
Dangers of using performance-enhancing drugs (e.g., steroids)						79.1	86.3	81.0	74.5	73.3	79.0	64.7	Decreased, 2008-2020	No quadratic change	Decreased
Increasing daily physical activity									93.0	92.6	96.4	80.6	Decreased, 2014-2020	Not available	Decreased
Incorporating physical activity into daily life (without relying on a structured exercise plan or special equipment)									92.3	91.5	94.8	79.6	Decreased, 2014-2020	Not available	Decreased
Using safety equipment for specific physical activities									82.2	80.9	86.5	74.4	No linear change	Not available	Decreased
Benefits of drinking water before, during, and after physical activity									92.6	89.4	95.4	79.1	Decreased, 2014-2020	Not available	Decreased
Percentage of schools that taught all 13 physical activity topics during the current school year									60.8	62.0	67.4	56.1	No linear change	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,  $p < 0.05$ .

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### 2020 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
SHE_PM_1807_2: 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									42.8	40.6	48.9	42.3	No linear change	Not available	No change
SHS_PM_1807_4: Percentage of schools that taught all 3 of the SHS topics in grades 9, 10, 11, or 12									27.1	27.9	37.9	36.5	Increased, 2014-2020	Not available	No change
SSE_PM_1807_1: Percentage of schools in which school staff received professional development on classroom management techniques					64.4	50.4	66.6	54.0	58.8	62.3	64.2	63.5	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,  $p < 0.05$ .

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													Prevalence																	
													Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>															
													1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020						
Collaboration																														
Percentage of schools in which health education staff worked with the following groups on health education activities during the current school year:																														
Physical education staff																			77.2	76.4	78.8	89.0	85.8	86.7	87.1	81.7	72.4	No linear change	Increased, 2004-2010 Decreased, 2010-2020	Decreased
Health services staff (e.g., nurses)																			67.9	64.0	71.5	75.5	71.9	74.6	71.7	72.2	61.2	No linear change	Increased, 2004-2014 Decreased, 2014-2020	Decreased
Mental health or social services staff (e.g., psychologists, counselors, social workers)																			53.5	46.5	49.2	59.6	58.0	56.2	47.8	57.9	50.6	No linear change	No quadratic change	No change
Nutrition or food service staff																			23.4	31.2	33.8	38.9	36.5	39.6	37.2	40.3	31.0	Increased, 2004-2020	Increased, 2004-2010 No change, 2010-2020	No change
School health council, committee, or team																						43.0	40.2	44.8	48.1	48.2	36.4	No linear change	No change, 2010-2016 Decreased, 2016-2020	Decreased

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

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

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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, STD, or pregnancy prevention						32.5	30.4	26.8	27.0	25.0	38.2	27.7	No linear change	No quadratic change	Decreased
Tobacco-use prevention						27.1	31.5	26.0	24.2	21.0	33.7	32.7	No linear change	Decreased, 2008-2016 Increased, 2016-2020	No change
Alcohol- or other drug-use prevention										24.3	38.5	31.4	No linear change	Not available	No change
Physical activity						54.1	55.1	46.4	47.6	52.3	58.1	43.2	No linear change	No quadratic change	Decreased
Nutrition and healthy eating						44.6	44.9	40.9	41.0	41.2	48.0	36.0	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,  $p < 0.05$ .

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### 2020 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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						20.4	21.3	19.0	22.4	20.7	22.3	21.6	No linear change	No quadratic change	No change
Food allergies									23.3	24.4	32.4	28.8	No linear change	Not available	No change
Diabetes									22.8	24.1	26.8	23.2	No linear change	Not available	No change
Preventing student bullying and sexual harassment, including electronic aggression (i.e., cyber-bullying)									64.9	65.4	72.6	58.2	No linear change	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									57.5	55.1	51.5	41.1	Decreased, 2014-2020	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
<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				35.3	37.5	32.9	38.1	32.0	31.8	25.6	36.6	33.8	No linear change	No quadratic change	No change
Asthma					17.5	14.8	19.6	20.6	15.7	17.9	24.3	27.1	Increased, 2006-2020	No quadratic change	No change
Chronic disease prevention										27.4	33.0	29.5	No linear change	Not available	No change
Emotional and mental health				26.0	25.3	25.6	32.2	25.8	29.0	29.5	41.2	50.7	Increased, 2004-2020	No change, 2004-2016 Increased, 2016-2020	No change
Epilepsy or seizure disorder									18.7	19.2	24.0	24.9	Increased, 2014-2020	Not available	No change
Food allergies									17.8	20.5	26.8	27.1	Increased, 2014-2020	Not available	No change
Foodborne illness prevention					19.1	20.3	22.0	21.7	13.6	16.5	23.3	21.8	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools in which the lead health education teacher received professional development on the following topics during the two years before the survey:															
HIV prevention				45.4	51.3	46.6	49.5	38.8	42.5	41.1	50.8	35.0	Decreased, 2004-2020	No quadratic change	Decreased
Human sexuality				37.2	41.9	43.5	48.7	37.4	37.7	38.6	44.5	37.1	No linear change	No quadratic change	No change
Infectious disease prevention (e.g., flu prevention)								36.4	34.7	28.3	44.0	39.7	No linear change	Not available	No change
Injury prevention and safety				44.4	42.3	39.9	51.4	47.1	43.0	46.3	53.2	49.7	Increased, 2004-2020	No quadratic change	No change
Nutrition and dietary behavior				26.8	27.5	33.7	38.6	35.2	29.4	29.6	35.1	30.2	No linear change	Increased, 2004-2010 No change, 2010-2020	No change
Physical activity and fitness				51.2	56.8	60.8	69.3	60.0	59.1	64.9	71.3	58.8	Increased, 2004-2020	Increased, 2004-2010 No change, 2010-2020	Decreased

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

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

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools in which the lead health education teacher received professional development on the following topics during the two years before the survey:															
Pregnancy prevention				33.7	36.3	43.2	40.8	32.7	39.2	36.7	48.2	30.8	No linear change	No quadratic change	Decreased
STD prevention				37.6	41.6	45.7	46.4	36.9	40.4	37.6	50.3	33.3	No linear change	No quadratic change	Decreased
Suicide prevention				11.4	11.4	15.0	22.5	20.8	45.4	43.4	50.9	47.4	Increased, 2004-2020	No quadratic change	No change
Tobacco-use prevention				28.5	26.2	24.9	33.4	26.3	22.3	19.7	27.6	30.7	No linear change	No quadratic change	No change
Violence prevention (e.g., bullying, fighting, dating violence prevention)				38.2	41.5	51.4	60.3	60.4	58.1	58.9	66.0	56.5	Increased, 2004-2020	Increased, 2004-2010 No change, 2010-2020	Decreased

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

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



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### 2020 School Health Profiles Report Trend Analysis Report - Lead Health Education Teacher Survey

	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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				39.3	39.5	28.8	38.3	34.4	37.2	47.0	49.9	54.6	Increased, 2004-2020	Decreased, 2004-2008 Increased, 2008-2020	No change
Teaching students of various cultural backgrounds				43.2	44.9	34.8	43.0	42.6	41.9	46.2	50.7	58.8	Increased, 2004-2020	No change, 2004-2014 Increased, 2014-2020	No change
Teaching students with limited English proficiency				23.9	29.1	25.9	30.8	28.8	39.6	44.2	53.2	55.3	Increased, 2004-2020	No change, 2004-2012 Increased, 2012-2020	No change
Using interactive teaching methods (e.g., role plays, cooperative group activities)				51.3	51.2	51.2	59.3	47.8	55.7	58.5	63.4	56.8	Increased, 2004-2020	No quadratic change	No change
Encouraging family or community involvement				41.7	42.2	33.4	38.6	34.8	38.7	43.4	44.4	47.9	Increased, 2004-2020	No change, 2004-2008 Increased, 2008-2020	No change
Teaching skills for behavior change				49.5	46.1	33.5	46.3	38.7	41.8	43.0	44.7	50.6	No linear change	Decreased, 2004-2008 Increased, 2008-2020	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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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools in which the lead health education teacher received professional development on the following topics during the two years before the survey:															
Classroom management techniques (e.g., social skills training, environmental modification, conflict resolution and mediation, behavior management)					64.4	50.4	66.6	54.0	58.8	62.3	64.2	63.5	No linear change	No quadratic change	No change
Assessing or evaluating students in health education					30.0	30.7	43.8	28.3	32.5	40.1	44.0	46.8	Increased, 2006-2020	No quadratic change	No change
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										44.4	54.8	36.5	No linear change	Not available	Decreased
Creating a comfortable and safe learning environment for students receiving sexual health education										43.9	55.3	41.7	No linear change	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools in which the lead health education teacher received professional development on the following topics related to teaching sexual health education:															
Connecting students to on-site or community-based sexual health services										22.4	36.7	28.2	No linear change	Not available	No change
Using a variety of effective instructional strategies to deliver sexual health education										38.5	52.6	32.5	No linear change	Not available	Decreased
Building student skills in HIV, other STD, and pregnancy prevention										36.9	50.7	31.8	No linear change	Not available	Decreased
Assessing student knowledge and skills in sexual health education										36.2	47.0	29.5	No linear change	Not available	Decreased
Understanding current district or school board policies or curriculum guidance regarding sexual health education										47.0	60.2	36.7	Decreased, 2016-2020	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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				65.0	70.5	74.9	72.9	68.4	72.6	69.3	66.0	57.3	Decreased, 2004-2020	Increased, 2004-2008 Decreased, 2008-2020	No change
Asthma					57.6	63.2	63.8	52.0	56.3	51.4	49.8	37.7	Decreased, 2006-2020	No change, 2006-2010 Decreased, 2010-2020	Decreased
Chronic disease prevention (e.g., diabetes, obesity prevention)										65.6	59.6	53.5	Decreased, 2016-2020	Not available	No change
Emotional and mental health				57.9	64.8	64.6	70.3	62.0	66.9	66.0	72.3	62.0	No linear change	No quadratic change	Decreased
Epilepsy or seizure disorder									55.5	53.6	53.1	41.4	Decreased, 2014-2020	Not available	Decreased
Food allergies									54.4	47.0	51.4	39.3	Decreased, 2014-2020	Not available	Decreased
Foodborne illness prevention					46.2	56.7	51.8	47.6	52.6	45.9	45.4	34.5	Decreased, 2006-2020	No change, 2006-2014 Decreased, 2014-2020	Decreased

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

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

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools in which the lead health education teacher would like to receive professional development on the following topics:															
HIV prevention				60.2	64.2	65.6	67.1	59.5	61.5	57.0	56.3	40.2	Decreased, 2004-2020	No change, 2004-2010 Decreased, 2010-2020	Decreased
Human sexuality				54.3	55.7	66.5	68.3	57.0	59.5	59.6	58.7	51.1	No linear change	Increased, 2004-2008 Decreased, 2008-2020	No change
Infectious disease prevention (e.g., flu prevention)								51.6	58.8	49.5	51.4	44.5	Decreased, 2012-2020	Not available	No change
Injury prevention and safety				45.2	56.1	64.8	61.8	58.6	63.7	56.8	58.5	48.0	No linear change	Increased, 2004-2008 Decreased, 2008-2020	Decreased
Nutrition and dietary behavior				66.0	74.2	73.7	73.6	73.7	73.3	69.6	68.4	59.6	Decreased, 2004-2020	No change, 2004-2014 Decreased, 2014-2020	No change
Physical activity and fitness				59.3	71.1	69.0	69.1	66.3	75.6	71.8	68.4	56.7	No linear change	Increased, 2004-2016 Decreased, 2016-2020	Decreased

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

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

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools in which the lead health education teacher would like to receive professional development on the following topics:															
Pregnancy prevention				57.9	57.4	60.8	67.1	57.7	60.7	59.7	58.6	46.3	Decreased, 2004-2020	Increased, 2004-2010 Decreased, 2010-2020	Decreased
STD prevention				58.6	61.9	65.4	67.0	59.4	62.4	61.0	57.5	49.4	Decreased, 2004-2020	Increased, 2004-2010 Decreased, 2010-2020	No change
Suicide prevention				60.7	68.3	73.6	74.8	73.1	73.0	67.3	71.5	64.1	No linear change	Increased, 2004-2008 Decreased, 2008-2020	No change
Tobacco-use prevention				63.1	59.9	66.7	68.0	61.5	65.0	64.3	59.0	55.6	No linear change	No change, 2004-2010 Decreased, 2010-2020	No change
Violence prevention (e.g., bullying, fighting, dating violence prevention)				75.6	76.6	78.6	77.2	76.4	73.6	72.3	68.5	65.0	Decreased, 2004-2020	No change, 2004-2012 Decreased, 2012-2020	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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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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				64.6	64.0	63.6	65.2	64.2	64.7	65.5	66.9	60.2	No linear change	No quadratic change	No change
Teaching students of various cultural backgrounds				61.8	59.4	61.3	61.1	57.8	59.5	54.8	56.5	52.5	Decreased, 2004-2020	No quadratic change	No change
Teaching students with limited English proficiency				58.8	60.4	56.3	56.9	59.0	55.9	51.7	58.5	50.3	No linear change	No quadratic change	No change
Using interactive teaching methods (e.g., role plays, cooperative group activities)				55.9	59.1	58.6	63.4	62.3	62.8	58.5	55.5	49.3	No linear change	No change, 2004-2014 Decreased, 2014-2020	No change
Encouraging family or community involvement				65.3	64.1	69.8	73.8	71.7	69.6	64.8	72.9	57.7	No linear change	Increased, 2004-2010 Decreased, 2010-2020	Decreased
Teaching skills for behavior change				70.1	71.8	70.2	72.8	68.1	68.4	63.5	67.1	60.6	Decreased, 2004-2020	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,  $p < 0.05$ .

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
Percentage of schools in which the lead health education teacher would like to receive professional development on the following topics:															
Classroom management techniques (e.g., social skills training, environmental modification, conflict resolution and mediation, behavior management)					63.3	64.6	63.1	63.6	60.4	53.1	57.7	49.7	Decreased, 2006-2020	No quadratic change	No change
Assessing or evaluating students in health education					72.5	64.1	70.7	64.0	71.4	62.9	65.4	52.5	Decreased, 2006-2020	No quadratic change	Decreased
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										61.4	53.2	48.4	Decreased, 2016-2020	Not available	No change
Creating a comfortable and safe learning environment for students receiving sexual health education										58.1	50.7	46.1	Decreased, 2016-2020	Not available	No change

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

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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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:															
Connecting students to on-site or community-based sexual health services										58.1	56.7	47.8	Decreased, 2016-2020	Not available	No change
Using a variety of effective instructional strategies to deliver sexual health education										66.6	61.4	50.6	Decreased, 2016-2020	Not available	Decreased
Building student skills in HIV, other STD, and pregnancy prevention										64.3	56.2	49.4	Decreased, 2016-2020	Not available	No change
Assessing student knowledge and skills in sexual health education										61.0	58.3	51.5	No linear change	Not available	No change
Understanding current district or school board policies or curriculum guidance regarding sexual health education										62.7	58.8	47.9	Decreased, 2016-2020	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,  $p < 0.05$ .

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	Prevalence														
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020	Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
Professional Preparation															
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)				51.4	49.6	49.8	51.7	45.1	42.0	41.1	46.5	53.3	No linear change	Decreased, 2004-2016 Increased, 2016-2020	No change
Physical education, kinesiology, exercise science or exercise physiology (c or e)					37.6	37.5	39.7	43.7	51.2	51.0	45.2	40.8	Increased, 2006-2020	Increased, 2006-2016 No change, 2016-2020	No change
Home economics or family and consumer science, biology or other science, or nutrition (f, g, or k)					4.6	6.0	2.9	2.5	0.4	3.6	2.1	2.6	No linear change	No quadratic change	No change
Nursing or counseling (h or i)				9.9	2.5	2.3	1.2	2.5	3.6	2.0	2.6	1.1	Decreased, 2004-2020	Decreased, 2004-2008 No change, 2008-2020	No change
Public health or other (j or l)				3.2	2.7	0.9	1.7	1.7	0.8	0.8	2.0	1.6	No linear change	No quadratic change	No change
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					74.9	68.5	68.0	67.1	64.1	67.5	67.9	74.4	No linear change	Decreased, 2006-2014 Increased, 2014-2020	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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	Prevalence												Linear Change <sup>1</sup>	Quadratic Change <sup>1</sup>	2018-2020 Change <sup>2</sup>
	1998	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020			
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				8.1	8.5	5.7	8.1	6.0	6.1	8.0	5.0	5.8	No linear change	No quadratic change	No change
2 to 5 years				25.8	23.1	27.7	27.5	23.3	22.8	20.8	23.9	30.7	No linear change	No quadratic change	No change
6 to 9 years				14.2	16.4	15.0	14.0	16.6	17.7	14.4	16.8	18.0	No linear change	No quadratic change	No change
10 to 14 years				14.6	11.0	11.3	14.1	17.7	17.9	16.6	16.8	15.0	No linear change	No quadratic change	No change
15 years or more				37.2	41.0	40.4	36.2	36.4	35.5	40.2	37.5	30.5	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,  $p < 0.05$ .