Nevada School Wellness Practices STOREY COUNTY SCHOOL DISTRICT

Introduction

- Schools play a pivotal role in the promotion of students' health, well-being, and ability to learn.
- School districts participating in the National School Lunch Program and/or School Breakfast
 Program are required to develop a local school wellness policy that promotes the health of
 students and addresses the growing problem of childhood obesity¹.
- The Nevada State School Wellness policy has been in place since 2007 and was recently revised and reissued in 2014.
- A progressive and more collaborative school/health interagency partnership is emerging to
 optimize school wellness programming outcomes in Nevada. As a beginning point, a 36-item
 survey to assess the school wellness practices in NV was disseminated to NV K-12 public schools
 through NV superintendents' offices in the Fall of 2014.
- The partnership will use the results of the survey to develop statewide priorities for improving school wellness in Nevada schools.

Methodology

The purpose of this brief report is to provide district superintendents with aggregated information about the physical activity and nutrition practices of elementary, middle, and high schools in their districts. In this report we focus on one universal wellness practice - the presence of a school wellness coordinator, three specific physical activity (PA) practices, and four specific nutrition practices.

We selected these items because they (a) had the greatest variability throughout the state AND (b) were perceived to be feasibly modifiable. The PA practices are 1) minutes of required physical education: at least 150 minutes per week and at least 90 minutes per week; 2) minutes of recess provided: at least 100 minutes per week and at least 60 minutes per week (elementary schools only); and 3) school support of active transportation through the existence of an active travel plan (e.g., Safe Routes to Schools). Nutrition practices are 1) student access to a salad bar/traveling salad bar; 2) school participation in a fresh fruit and vegetable snack program; 3) scheduling of daily nutrition breaks; and 4) identification of nutrition education goals. A complete report of all survey items is in the Appendix.

Because the Storey County School District has a small number of schools, we are unable to provide statistical comparisons between the Storey County School District and the rest of the state. Instead, we indicate the total number of schools out of those with completed surveys in Storey County that reported having each practice at each school level.

For comparison purposes, we also provide figures that identify the percentage of schools in Clark County and the percentages of schools from the rest of the state that indicated affirmatively for each policy at each school level. We separate Clark County from the rest of the schools in the state because Clark County schools comprised 65% of all schools responding. We present error bars indicating 95% confidence intervals around the percentages. Note that overlapping confidence intervals indicate that the difference between Clark County and the rest of the state is not statistically significant at the p<0.05 level.

Findings

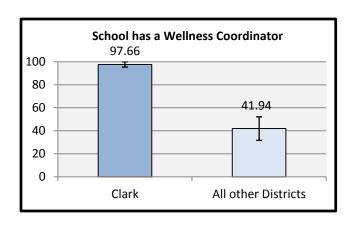
We received surveys from two Storey County schools, including one elementary school (50% response rate) and the one high school (100% response rate)². The one middle school in Storey County did not provide a survey.

Elementary Schools

One elementary school in Storey County submitted a survey.

School Wellness Coordinator

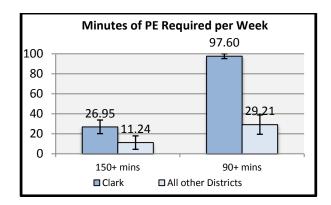
School wellness coordinators play an important role in implementing strong physical activity and nutrition programs in schools. The Storey County elementary school reported not having a school wellness coordinator. An overwhelming majority and significantly more Clark County elementary schools also reported having a school wellness coordinator relative to the rest of the schools in the state.

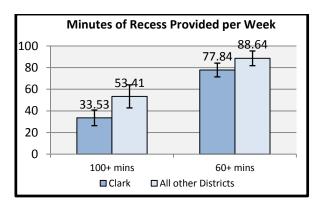


Physical Education and Recess Minutes

The national recommendation for the number of weekly PE minutes elementary students should receive is 150. The one Storey County elementary school reported requiring 60-89 minutes of PE per week. In addition to PE, the national recommendation is that schools provide elementary students with at least 20 minutes of recess each day, equivalent to 100 minutes per week. The Storey County elementary school reported meeting this recommendation.

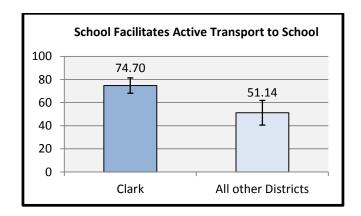
Considering results from the state as a whole, though significantly more Clark County elementary schools reported requiring 150 minutes of PE compared to the rest of the state, less than 30% of Clark County schools indicated doing so. Compared to other NV elementary schools, significantly fewer Clark County schools reported providing 100 minutes of recess, but most Clark County elementary schools (over 77%) reported providing 60 minutes or more recess per week.





Active Transport

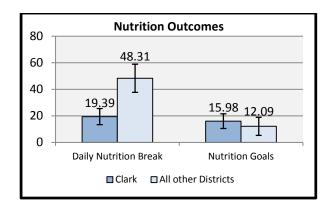
Facilitating active transport (e.g., walking and biking) to school has been shown to help students accrue important minutes in moderate to vigorous physical activity. Examples of such efforts include the Safe Routes to School and Walking School Bus programs. Schools also work with their local municipalities to take traffic calming measures such as school zone flashing lights, speed bumps, traffic lights, narrower streets, medians, and well-placed and well-marked cross walks with crossing guards. The Storey County elementary school reported having an active transport plan. Compared to other NV elementary schools, significantly more Clark County elementary schools reported facilitating active transport to school.

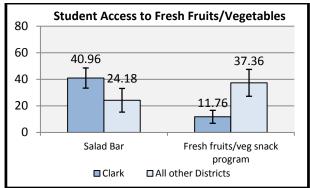


Nutrition

Providing students with daily access to fresh fruits and vegetables, implementing daily nutrition breaks, and identifying nutrition goals can facilitate healthier eating, potentially contributing to reductions in childhood obesity and increases in attention and cognition. The Storey County elementary school reported not having a salad bar for students, not participating in a fresh fruits and vegetables program, not providing daily nutrition breaks, and not having identified nutrition goals.

Compared to elementary schools in the rest of Nevada, significantly fewer Clark County elementary schools reported providing students with a daily nutrition break, and similar to their NV elementary school counterparts, few Clark County elementary schools reported having school nutrition education goals. In addition, though significantly more Clark County elementary schools reported having a salad bar compared to elementary schools in the rest of the state, significantly fewer Clark County elementary schools reported participating in the fresh fruits and vegetable snack program compared to the rest of elementary schools in the state.



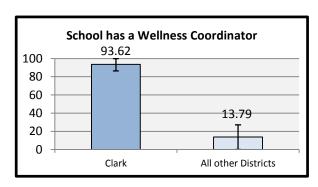


Middle Schools

We did not receive a survey from the one Storey County middle school. Therefore, the summary below reports the PA and nutrition practices for the rest of the state.

School Wellness Coordinator

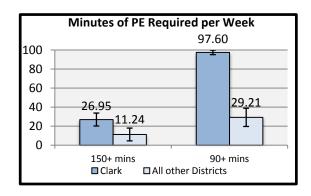
Wellness coordinators are essential for facilitating effective physical education and nutrition programs in schools. The overwhelming majority of Clark County middle schools reported having a wellness coordinator, but a very low percentage of the rest of Nevada reported having a school wellness coordinator.

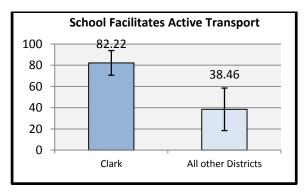


Physical Education Minutes and Active Transport

The national recommendation for middle schools is that students should receive at least 225 minutes of PE per week³. Our results suggest that most middle schools throughout the state of Nevada are not meeting that recommendation. In fact, most are not even providing at least 150 minutes of PE per week.

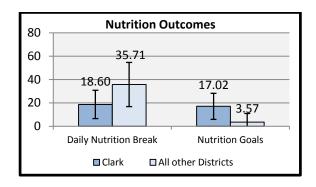
Active travel plans are also important for facilitating moderate-to-vigorous activity before and after school. Though over 80% of middle schools in Clark County have an active travel plan, fewer than 40% of middle schools in the rest of the state have such a plan.

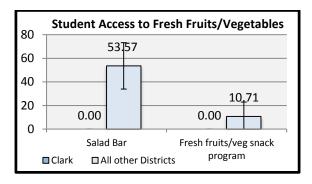




Nutrition

Middle schools in the state have low rates of providing daily nutrition breaks, having nutrition goals, and participating in fresh fruits and vegetable snack programs. However, about half of middle schools provide a salad bar for students. Middle schools in Clark County do not provide salad bars or participate in fresh fruits and vegetables programs.



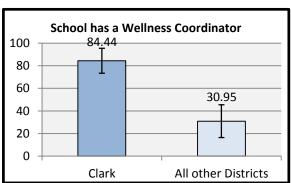


High Schools

We received a survey from the one high school in Storey County.

School Wellness Coordinator

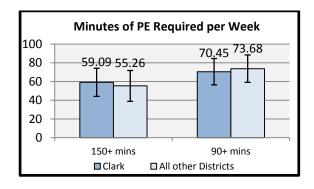
The high school in Storey County reported having a school wellness coordinator. As shown in the figure to the right, though a substantial proportion of Clark County high schools report having a school wellness coordinator, that practice is not standard across the rest of the state, suggesting a major area for intervention.

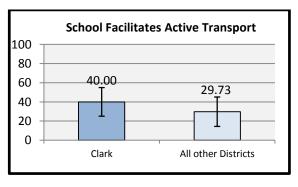


Physical Education Minutes and Active Transport

The national recommendation for high schools is that

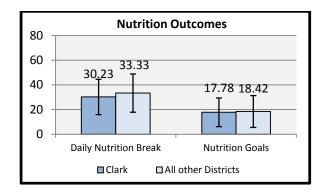
students should receive at least 225 minutes of PE per week³. Most high schools in Nevada do not meet this recommendation, and many do not even require 150 minutes of PE per week. In addition, most high schools in the state do not have an active travel plan for students. The high school in Storey County reported requiring 150 minutes or more of PE per week and reported having an active travel plan.

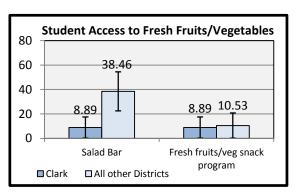




Nutrition

Clark County and the rest of the state report low rates of providing daily nutrition breaks, having identified nutrition goals, providing a salad bar, and participating in a fresh fruits and vegetables program. The Storey County high school reported not having a salad bar for students or participating in a fresh fruits and vegetables program, but the school also reported having identified nutrition education goals and providing a daily nutrition break for students.





This report has provided Storey County School District with a detailed account of select aspects of school wellness practices of reporting schools and additionally, for comparative purposes provided Clark County Schools' data and data from schools in the rest of the state. Overall, this report showed inconsistent physical activity and nutrition wellness practices among reporting schools and that no school participates in all existing school nutrition programs nor invests in all opportunities for students to accrue physical activity either during the school day or before or after school. This report clearly suggests there is opportunity for Storey County School District to improve school wellness practices. District leadership can be the catalyst for improvement and can be influential in broader school participation in all existing state nutrition programs and pursuit of strategies for improving school physical activity programs.

Recommendations

Comprehensive school wellness programs provide a healthy school environment where the promotion and reinforcement of healthful dietary behaviors and physical activity can be fostered. In 2014, the Centers for Disease Control and Prevention released a comprehensive report summarizing the evidence-based linkages between student physical activity, nutrition, and overall health and academic achievement.⁵ This report provides salient rationale for school investment in improving school wellness programming as an investment in the whole child and in improving student academic performance. Based on the findings detailed in this report, we provide the following recommendations for school wellness practice improvement in physical activity and nutrition areas.

Physical Activity⁴

By in large, Nevada schools do not meet national recommendations for recess or physical education. Through superintendent leadership and strong interagency partnerships, improvement in both physical education and recess is possible.

Physical Education

Numerous authorities recommend that elementary children receive PE daily and for a total of at least 150 minutes per week and secondary students receive PE for a total of 225 minutes per week. Results of this report suggest that there is opportunity to improve PE minutes per week at the elementary school level.

Strategies for Improvement

- Consider hiring additional PE specialists and/or providing staff development for classroom teachers so they can implement evidence-based PE programs under the supervision of a PE specialist.
- National physical education and health authorities recommend PE be taught by certified specialists. Compared to classroom teachers, specialists conduct longer lessons and cancel them less. In addition, their students are more likely to engage in high intensity physical activity, resulting in increased physical fitness and skills.
- Employing more PE specialists may not be economically feasible now. In the interim, consider staff development for classroom teachers or part-time teachers who implement an evidencebased PE program (e.g., SPARK-PE, CATCH PE, or planet health) under the direction of a PE specialist.

Recess

Besides providing physical activity, recess may increase academic attentiveness and on-task classroom behavior. National physical education and health authorities recommend that elementary schools provide all students with at least 20 minutes of recess each day. While the elementary school met this recommendation, it is important to note that students don't always receive recess even when it is scheduled because teachers withhold it for disciplinary or academic reasons.

Strategies for Ensuring Student Access to Recess

- Require that elementary schools make morning and afternoon recess part of the formalized schedule.
- Provide recess-related staff development for classroom teachers, supervisors, and recess volunteers.
- Implement policies that ensure students have access to recess time.

Nutrition

Deficits in dietary nutrients found in fruits in vegetables have been found to be associated with lower academic performance.

Salad Bar and Fruit and Vegetable Participation

Neither reporting Storey County school reported participation in the fresh fruit and vegetable program or provided student access to salad bar.

Strategy for Improvement

Work with the district food services director and the NV Department of Agriculture to develop strategies for school adoption of salad bar access and participation in the fruits and vegetable snack program.

APPENDIX: Report of All Survey Items OVERALL WELLNESS

	E	lementai	ry Schools	j		Middle Schools				High Schools				
	Storey		All		Storey		All		Storey		All			
	(N=1)	Clark	Others	t value	(N=0)	Clark	Others	t value	(N=1)	Clark	Others	t value		
School has a school														
wellness coordinator	No	97.7	41.9	10.57***			13.8	10.72***	Yes	84.4	31.0	5.96***		
School wellness policy is disseminated to staff														
annually	Yes	89.4	54.4	6.10***			39.3	2.60*	Yes	77.8	47.6	3.03**		

PHYSICAL ACTIVITY

		Elementa	ary School	S		Middle	Schools			High Schools				
	Storey		All		Storey		All	t	Storey		All			
	(N=1)	Clark	Others	t value	(N=0)	Clark	Others	value	(N=1)	Clark	Others	t value		
School requires all														
students to participate in														
PE at least 150														
mins/week	No	27.0	11.2	3.26**		76.1	53.9	1.88	Yes	59.1	55.3	0.35		
School requires all														
students to participate in														
PE at least 90 mins/week	No	97.6	29.2	13.7***		84.8	76.9	0.79	Yes	70.5	73.7	-0.32		
PE taught by certified PE														
teacher during all PE														
lessons	Yes	99.4	54.6	8.35***		100.0	88.9	1.80	Yes	97.8	86.8	1.83		
Recess is provided at														
least 100 mins/week	Yes	33.5	53.4	-3.07**		N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Recess is characterized														
by the provision of loose	.,	00.4	0==	4 =0				/.						
balls	Yes	99.4	95.5	1.70		N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Recess is characterized														
by the provision of														
strategic playground or	V	07.0	02.2	4.26		N1 / A	N1 / A	N1 / A	N1 / A	N1 / A	N1/A	N1 / A		
game markings	Yes	97.0	93.2	1.26		N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Recess is characterized	No	CC 1	44.2	2 20***		NI/A	NI/A	NI/A	NI / A	NI/A	NI/A	NI/A		
by the training of	No	66.1	44.3	3.39***		N/A	N/A	N/A	N/A	N/A	N/A	N/A		

playground supervisors to promote PA											
School provides											
classroom activity breaks	Yes	83.4	77.5	1.11	36.8	48.0	-0.86	Yes	38.6	44.4	-0.52
School provides before	163	03.1	,,,,	1.11	30.0	10.0	0.00	1.03	30.0		0.32
school PA programs	Yes	51.5	26.7	4.00***	50.0	16.0	3.14**	Yes	39.5	14.7	2.55*
School offers intramural		02.0				20.0	0.12		00.0		
programs before school	No	15.3	4.8	1.64	57.1	0.0	а	No	76.5	20.0	а
School offers organized											
sports before school	No	15.5	19.1	-0.36	50.0	0.0	а	Yes	70.6	60.0	а
School offers walking											
programs before school	Yes	58.8	22.7	3.37**	25.0	33.0	а	No	25.0	25.0	a
School offers dance											
before school	No	12.3	4.8	1.23	57.1	0.0	a	No	47.1	0.0	a
School provides after											
school PA programs	Yes	66.1	55.2	1.66	93.5	65.4	2.75**	Yes	77.3	71.4	0.59
School offers intramural											
programs after school	No	45.8	32.6	1.47	93.0	46.7	3.33**	No	87.5	8.7	9.09***
School offers organized											
sports after school	No	56.9	52.2	0.53	97.7	94.1	0.56	Yes	84.4	84.0	0.04
School offers walking											
programs after school	No	22.6	21.4	0.15	11.1	13.3	-0.21	No	32.3	13.0	1.64
School offers dance after											
school	No	42.9	21.4	2.63*	71.8	26.7	3.25**	No	93.8	39.1	4.84***
School physical activity											
programming offered											
during school											
School offers intramural	V	24.6	10.1	0.44	22.2	45.5	0.57	N1 -	40.0	24.4	0.40
programs during school School offers organized	Yes	21.6	19.1	0.41	33.3	45.5	-0.57	No	18.8	21.4	-0.18
sports during school	No	38.6	33.3	0.72	41.7	36.4	0.25	Yes	52.9	40.0	0.71
School offers walking	INO	36.0	33.3	0.72	41.7	30.4	0.25	162	32.9	40.0	0.71
programs during school	Yes	42.9	37.5	0.71	27.3	18.2	0.49	No	37.5	21.4	0.94
School offers dance	163	44.3	37.3	0.71	27.3	10.2	0.43	INU	37.3	21.4	0.34
during school	No	20.0	17.7	0.37	41.7	27.3	0.70	No	62.5	14.3	2.98**
School supports active	110	_0.0	27.7	5.57	71.7		3.7.0	140	02.5	14.5	
transport by providing											
bike rack storage	Yes	98.2	91.0	2.23*	97.8	96.3	0.36	Yes	84.4	79.0	0.64
		3 3 . -	3 = .0	•	57.0	5 5.5			-		

School supports active transport by having active travel plans (e.g., SRTS)	Yes	74.7	51.1	3.73***	82.2	38.5	3.87***	Yes	40.0	29.7	0.96
School supports active transport by implementing traffic											
calming mechanisms	Yes	80.7	67.4	2.39*	54.4	40.5	1.12	Yes	60.0	55.3	0.43
Student access to PA is compromised for disciplinary reasons	Yes	31.7	38.2	1.04	15.6	37.0	-2.11*	Yes	15.9	36.8	-2.16*
Student access to PA is compromised for	163	31.7	30.2	1.04	13.0	37.0	-2.11	163	13.9	30.8	-2.10
academic reasons	No	15.3	36.0	-3.53***	20.0	37.0	-1.59	No	13.6	18.4	-0.58
Student access to PA is compromised due to											
space not being available	No	6.2	8.0	-0.51	11.1	7.4	0.51	No	22.2	21.1	0.13
Both indoor and outdoor											
PA facilities are available	Yes	82.6	69.3	2.31*	97.8	92.6	0.93	Yes	84.4	81.6	0.34
Either indoor or outdoor											
PA facilities are available	N/A	16.8	30.0	-2.25*	2.2	7.4	-0.93	N/A	6.7	2.6	0.85

NUTRITION

		Elementa	ary School	s		Middle Schools				High Schools				
	Storey		All		Storey		All		Storey		All			
	(N=1)	Clark	Others	t value	(N=0)	Clark	Others	t value	(N=1)	Clark	Others	t value		
Free breakfast is available														
to all students every day	No	47.1	40.0	1.09		51.1	40.7	0.85	No	60.0	33.3	2.51*		
On typical school day, students are provided at least 15 mins to consume school breakfast	Yes	98.2	70.0	5.69***		100.0	78.6	2.71*	No	93.3	68.4	2.93**		
School has a garden	Yes	30.6	22.5	1.43		6.4	14.3	-1.03	No	22.2	10.3	1.50		
School garden is integrated into nutrition education program	No	58.0	47.4	0.77		b	b	b	N/A	40.0	25.0	a		

Consume vegetables grown in school garden at school of Yes 76.9 80.0 -0.28 33.3 50.0 -0.38 N/A 66.7 100.0 a stackhool students have a salad bar No 41.0 24.2 2.84** 0.0 53.6 -5.58*** No 8.9 38.5 -3.29** School participates in resh fruit and vegetable mack program No 11.8 37.4 -4.51*** 0.0 10.7 -1.80 No 8.9 10.5 -0.25 considerable mack program No 11.8 37.4 -4.51*** 0.0 10.7 -1.80 No 4.4 5.1 -0.15 Noterial freely available to students throughout school day Yes 98.2 97.8 0.24 97.9 100.0 -1.00 Yes 97.8 97.4 0.10 School schedules daily untrition breaks No 19.4 48.3 -4.70*** 18.6 35.7 -1.63 Yes 30.2 33.3 -0.30 School schedules during special occasions No 8.9.4 76.9 2.33* 86.7 77.3 0.97 Yes 70.7 62.9 0.72 School encourages staff to use non-food nenetives/rewards Yes 97.0 91.2 1.78 89.4 77.8 1.35 Yes 63.6 74.4 -1.05 School participates in scripts, box tops, or abels for education Yes 96.5 90.1 1.84 74.5 64.3 0.93 Yes 22.2 20.5 0.19 Scripts No 4.3 11.1 -1.78 8.9 8.9 8.0 0.13 No 2.2 2.6 -0.10 Sox tops Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Justicino education is negated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 User interficing the distinction of the distincti												
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Students have a salad bar (No. 41.0 24.2 2.84**) 0.0 53.6 -5.58*** No. 8.9 38.5 -3.29** school participates in resh fruit and vegetable sinack program (No. 11.8 37.4 4.51***) 1.	grown in school garden											
Park traveling salad bar No 41.0 24.2 2.84** 0.0 53.6 -5.58*** No 8.9 38.5 -3.29** School participates in resh fruit and vegetable stanck program No 11.8 37.4 -4.51*** 0.0 10.7 -1.80 No 8.9 10.5 -0.25 School provides breakfast not the classroom Yes 27.2 14.4 2.52* 0.0 7.1 -1.44 No 4.4 5.1 -0.15 Water is freely available to students throughout school day Yes 98.2 97.8 0.24 97.9 100.0 -1.00 Yes 97.8 97.8 97.4 0.10 School schedules daily nutrition breaks during special occasions No 89.4 76.9 2.33* 86.7 77.3 0.97 Yes 70.7 62.9 0.72 School encourages staff to use non-food nentives/rewards Yes 97.0 91.2 1.78 89.4 77.8 1.35 Yes 63.6 74.4 -1.05 School participates in scripts, box tops, or abels for education Yes 96.5 90.1 1.84 74.5 64.3 0.93 Yes 22.2 20.5 0.19 Scripts No 4.3 11.1 -1.78 8.9 8.0 0.3 No 0.24 75.9 2.2 2.6 -0.10 Sox tops Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Subtrition education is negative in curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School schedules No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59	at school	Yes	76.9	80.0	-0.28	33.3	50.0	-0.38	N/A	66.7	100.0	а
School participates in resh fruit and vegetable sinarch program No 11.8 37.4 4.51*** 0.0 10.7 -1.80 No 8.9 10.5 -0.25 cincled provides breakfast in the classroom Yes 27.2 14.4 2.52* 0.0 7.1 -1.44 No 4.4 5.1 -0.15 Nater is freely available os students throughout school day Yes 98.2 97.8 0.24 97.9 100.0 -1.00 Yes 97.8 97.4 0.10 cincled daily nutrition breaks during special occasions No 89.4 76.9 2.33* 86.7 77.3 0.97 Yes 70.7 62.9 0.72 cincled occasions No 89.4 76.9 2.33* 89.4 77.8 1.35 Yes 63.6 74.4 -1.05 cincled patents of the control of the control occasions occasions occasions Yes 96.5 90.1 1.84 74.5 64.3 0.93 Yes 22.2 20.5 0.19 circles, box tops, or abels for education Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Nutrition education is needed to control occasions Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Nutrition education is needed to control occasions Yes 99.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 circled into circled to control occasions Yes 99.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 circled into circled to circled the circled the circled the circled the circled the circled to circled the circle												
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Sinack program No 11.8 37.4 -4.51*** 0.0 10.7 -1.80 No 8.9 10.5 -0.25 School provides breakfast not the classroom Nater is freely available to students throughout school day Yes 98.2 97.8 0.24 97.9 100.0 -1.00 Yes 97.8 97.4 0.10 School shedules daily nutrition breaks No 19.4 48.3 -4.70*** 18.6 35.7 -1.63 Yes 30.2 33.3 -0.30 School schedules daily nutrition breaks No 89.4 76.9 2.33* 86.7 77.3 0.97 Yes 70.7 62.9 0.72 School encourages staff to use non-food necentives/rewards No 97.0 91.2 1.78 89.4 77.8 1.35 Yes 63.6 74.4 -1.05 School participates in scripts, box tops, or abels for education Yes 96.5 90.1 1.84 74.5 64.3 0.93 Yes 22.2 20.5 0.19 School sock open Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 School encourages Yes 29.7 38.1 -1.31 13.3 8.0 0.66 No 6.7 7.7 -0.18 Nutrition education is necessarily nece	•											
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n the classroom		NO	11.8	37.4	-4.51***	0.0	10.7	-1.80	NO	8.9	10.5	-0.25
Water is freely available to students throughout corollary and state of the corollary of th	•	Voc	27.2	111	2 52*	0.0	7.1	1 11	No	4.4	г 1	0.15
to students throughout school day Yes 98.2 97.8 0.24 97.9 100.0 -1.00 Yes 97.8 97.4 0.10 School schedules daily nutrition breaks No 19.4 48.3 -4.70*** 18.6 35.7 -1.63 Yes 30.2 33.3 -0.30 School schedules nutrition breaks during special occasions No 89.4 76.9 2.33* 86.7 77.3 0.97 Yes 70.7 62.9 0.72 School encourages staff or ouse non-food nenentives/rewards School participates in scripts, box tops, or abels for education No 4.3 11.1 -1.78 8.9 8.0 0.13 No 2.2 2.6 -0.10 30x tops Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 a.abels Yes 29.7 38.1 -1.31 13.3 8.0 0.66 No 6.7 7.7 0.18 Nutrition education is integrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified		res	27.2	14.4	2.52	0.0	7.1	-1.44	NO	4.4	5.1	-0.15
School day Yes 98.2 97.8 0.24 97.9 100.0 -1.00 Yes 97.8 97.8 97.4 0.10 School schedules daily nutrition breaks No 19.4 48.3 -4.70*** 18.6 35.7 -1.63 Yes 30.2 33.3 -0.30 School schedules daily nutrition breaks during special occasions No 89.4 76.9 2.33* 86.7 77.3 0.97 Yes 70.7 62.9 0.72 School encourages staff to use non-food nutrition breaks during school participates in scripts, box tops, or abels for education No 4.3 11.1 -1.78 8.9 8.0 0.13 No 2.2 2.6 -0.10 School school school yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 a.bels Yes 97.8 0.59 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	· · · · · · · · · · · · · · · · · · ·											
School schedules daily nutrition breaks No 19.4 48.3 -4.70*** 18.6 35.7 -1.63 Yes 30.2 33.3 -0.30 School schedules nutrition breaks during special occasions No 89.4 76.9 2.33* 86.7 77.3 0.97 Yes 70.7 62.9 0.72 School encourages staff to use non-food necentives/rewards Yes 97.0 91.2 1.78 89.4 77.8 1.35 Yes 63.6 74.4 -1.05 School participates in scripts, box tops, or abels for education Yes 96.5 90.1 1.84 74.5 64.3 0.93 Yes 22.2 20.5 0.19 School scripts No 4.3 11.1 -1.78 8.9 8.0 0.13 No 2.2 2.6 -0.10 School scripts Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Labels Yes 29.7 38.1 -1.31 13.3 8.0 0.66 No 6.7 7.7 -0.18 Nutrition education is integrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified		Yes	98.2	97.8	0.24	97 9	100.0	-1 00	Yes	97.8	97 4	0.10
No 19.4 48.3 -4.70*** 18.6 35.7 -1.63 Yes 30.2 33.3 -0.30 School schedules nutrition breaks during special occasions No 89.4 76.9 2.33* 86.7 77.3 0.97 Yes 70.7 62.9 0.72 School encourages staff to use non-food nutrition breaks in the string participates in scripts, box tops, or abels for education Yes 96.5 90.1 1.84 74.5 64.3 0.93 Yes 22.2 20.5 0.19 School encourages Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Labels Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Labels Nutrition education is integrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	•	103	30.2	37.0	0.24	57.5	100.0	1.00	103	37.0	37.4	0.10
School schedules Full rition breaks during Special occasions No 89.4 76.9 2.33* 86.7 77.3 0.97 Yes 70.7 62.9 0.72 School encourages staff To use non-food School participates in Scripts, box tops, or abels for education No 4.3 11.1 -1.78 8.9 8.0 0.13 No 2.2 2.6 -0.10 Sox tops Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Sabels Nutrition education is Integrated into Surriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	nutrition breaks	No	19.4	48.3	-4.70***	18.6	35.7	-1.63	Yes	30.2	33.3	-0.30
special occasions No 89.4 76.9 2.33* 86.7 77.3 0.97 Yes 70.7 62.9 0.72 School encourages staff to use non-food incentives/rewards Yes 97.0 91.2 1.78 89.4 77.8 1.35 Yes 63.6 74.4 -1.05 School participates in scripts, box tops, or abels for education Yes 96.5 90.1 1.84 74.5 64.3 0.93 Yes 22.2 20.5 0.19 Scripts No 4.3 11.1 -1.78 8.9 8.0 0.13 No 2.2 2.6 -0.10 Sox tops Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Labels Yes 29.7 38.1 -1.31 13.3 8.0 0.66 No 6.7 7.7 -0.18 Nutrition education is integrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	School schedules											
School encourages staff to use non-food neentives/rewards Yes 97.0 91.2 1.78 89.4 77.8 1.35 Yes 63.6 74.4 -1.05 School participates in scripts, box tops, or abels for education Yes 96.5 90.1 1.84 74.5 64.3 0.93 Yes 22.2 20.5 0.19 Scripts No 4.3 11.1 -1.78 8.9 8.0 0.13 No 2.2 2.6 -0.10 Sax tops Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Scabels Yes 29.7 38.1 -1.31 13.3 8.0 0.66 No 6.7 7.7 -0.18 Nutrition education is integrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	nutrition breaks during											
to use non-food neentives/rewards Yes 97.0 91.2 1.78 89.4 77.8 1.35 Yes 63.6 74.4 -1.05 School participates in scripts, box tops, or abels for education Yes 96.5 90.1 1.84 74.5 64.3 0.93 Yes 22.2 20.5 0.19 Scripts No 4.3 11.1 -1.78 8.9 8.0 0.13 No 2.2 2.6 -0.10 Sox tops Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Scabels Yes 29.7 38.1 -1.31 13.3 8.0 0.66 No 6.7 7.7 -0.18 Nutrition education is integrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	special occasions	No	89.4	76.9	2.33*	86.7	77.3	0.97	Yes	70.7	62.9	0.72
No. 2.2 2.6 -0.10 Society Soci	School encourages staff											
School participates in Scripts, box tops, or abels for education Yes 96.5 90.1 1.84 74.5 64.3 0.93 Yes 22.2 20.5 0.19 Scripts No 4.3 11.1 -1.78 8.9 8.0 0.13 No 2.2 2.6 -0.10 Sox tops Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Sabels Yes 29.7 38.1 -1.31 13.3 8.0 0.66 No 6.7 7.7 -0.18 Nutrition education is integrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	to use non-food											
Scripts, box tops, or abels for education Yes 96.5 90.1 1.84 74.5 64.3 0.93 Yes 22.2 20.5 0.19 Scripts No 4.3 11.1 -1.78 8.9 8.0 0.13 No 2.2 2.6 -0.10 Sox tops Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Labels Yes 29.7 38.1 -1.31 13.3 8.0 0.66 No 6.7 7.7 -0.18 Nutrition education is integrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	incentives/rewards	Yes	97.0	91.2	1.78	89.4	77.8	1.35	Yes	63.6	74.4	-1.05
abels for education Yes 96.5 90.1 1.84 74.5 64.3 0.93 Yes 22.2 20.5 0.19 Scripts No 4.3 11.1 -1.78 8.9 8.0 0.13 No 2.2 2.6 -0.10 Box tops Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Labels Yes 29.7 38.1 -1.31 13.3 8.0 0.66 No 6.7 7.7 -0.18 Nutrition education is integrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	School participates in											
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Yes 96.5 90.1 1.83 74.5 60.7 1.25 Yes 20.0 18.0 0.24 Labels Yes 29.7 38.1 -1.31 13.3 8.0 0.66 No 6.7 7.7 -0.18 Nutrition education is ntegrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	labels for education	Yes	96.5	90.1	1.84	74.5	64.3	0.93	Yes	22.2	20.5	0.19
Abels Yes 29.7 38.1 -1.31 13.3 8.0 0.66 No 6.7 7.7 -0.18 Nutrition education is ntegrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	Scripts	No	4.3	11.1	-1.78	8.9	8.0	0.13	No	2.2	2.6	-0.10
Nutrition education is ntegrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	Box tops	Yes	96.5	90.1	1.83	74.5	60.7	1.25	Yes	20.0	18.0	0.24
Nutrition education is ntegrated into curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	Labels	Yes	29.7	38.1	-1.31	13.3	8.0	0.66	No	6.7	7.7	-0.18
curriculum No 90.5 64.4 4.68*** 78.7 71.4 0.71 Yes 84.4 79.5 0.59 School has identified	Nutrition education is											
School has identified	integrated into											
	curriculum	No	90.5	64.4	4.68***	78.7	71.4	0.71	Yes	84.4	79.5	0.59
nutrition education goals No 16.0 12.1 0.87 17.0 3.6 2.04* Yes 17.8 18.4 -0.07	School has identified											
	nutrition education goals	No	16.0	12.1	0.87	17.0	3.6	2.04*	Yes	17.8	18.4	-0.07

NOTES

Not all schools provided responses for every item; sample sizes vary across items t-values are from significance tests comparing Clark County to the rest of the state.

^{*}p<0.05; **p<0.01; ***p<0.001; two-tailed t-tests for differences in proportions/percentages;

^a Sample is not large enough for statistical test ^b No responses provided

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Endnotes

¹ Established by Child Nutrition and Women, Infant, and Child Reauthorization Act of 2004; Reinforced by the Healthy, Hunger-Free Kids Act of 2010

http://static.squarespace.com/static/53b1a843e4b0dcbabf4b4b85/t/53d15be7e4b0a7d1d7db0e7d/14062294799 98/health-academic-achievement.pdf)

² During data analysis we identified several cases of duplicate school surveys, often completed from different ip addresses (suggesting completion by different individuals), and often with discrepant responses across the duplicates. Because we could not include a school in the results more than once, we eliminated duplicates from our analysis. In the case of duplicates, we selected which survey to retain based on which survey contained fewer missing responses to survey items. In cases where the number of missing responses were similar, we selected the survey completed last under the assumption that the last survey completed was to correct erroneous information provided in an earlier survey.

³ The national recommendation for the number of PE minutes middle school students should receive per week is 225. However, because some middle school respondents completed the survey using the link for elementary schools, and the elementary school survey allowed for a maximum response of 150 minutes or more per week, we are unable to show the percentage of middle schools that require at least 225 minutes of PE per week.

⁴ Regular engagement in physical activity is important for children's growth, development, and health. The National Physical Activity Guidelines (2008) indicate children should engage in moderate and vigorous physical activity at least 60 minutes each day, but far too many children, including Nevada's children, do not.

⁵The Centers for Disease Control report can be found at: