# Nevada School Wellness Practices NYE 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 obesity<sup>1</sup>.
- 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 Nye County School District has a small number of schools, we are unable to provide statistical comparisons between the Nye County School District and the rest of the state. Instead, we indicate the total number of schools out of those with completed surveys in Nye 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.

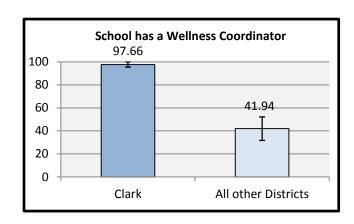
# **Findings**

We received surveys from a total of sixteen Nye County schools, including seven elementary schools (58% response rate), four middle schools (50% response rate), and all five high schools (100% response rate)<sup>2</sup>.

#### **Elementary Schools**

#### **School Wellness Coordinator**

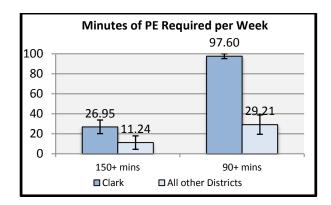
School wellness coordinators play an important role in implementing strong physical activity and nutrition programs in schools. Three Nye County elementary schools reported having a school wellness coordinator. An overwhelming majority and significantly more Clark County elementary schools also reported having a school wellness coordinator relative to the rest of the schools in the state.

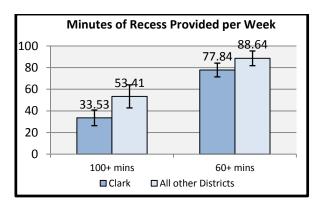


#### **Physical Education and Recess Minutes**

The national recommendation for the number of weekly PE minutes elementary students should receive is 150. Only one Nye County elementary schools reported requiring at least 150 minutes of PE per week. Three reported requiring 149-90 minutes per week, and three reported requiring 60-89 minutes per week. In addition, the national recommendation is that schools provide elementary students with at least 20 minutes of recess each day, equivalent to 100 minutes per week. Three Nye County elementary schools reported meeting this recommendation, while one reported providing 80-99 minutes of recess per week, two reported providing 60-79 minutes of recess per week, and one reported providing fewer than 60 minutes of recess per week.

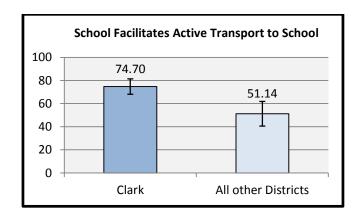
Considering results from the state as a whole, though significantly more Clark County elementary schools reported requiring 150 minutes of PE compared to the rest of the state, less than 30% of Clark County schools indicated doing so. Compared to other NV elementary schools, significantly fewer Clark 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. Three Nye County elementary schools reported engaging in this practice. Compared to other NV elementary schools, significantly more Clark County elementary schools reported facilitating active transport to school.

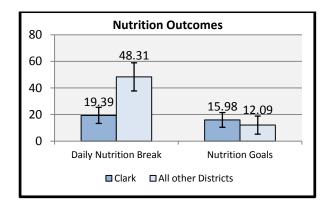


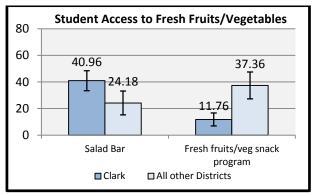
#### **Nutrition**

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. Three Nye County elementary schools reported providing daily nutrition breaks, and all seven reported scheduling nutrition breaks on special occasions. Six reported having a salad bar available for students, four reported participating in the fresh fruits and vegetables program, and two Nye County elementary schools reported 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.



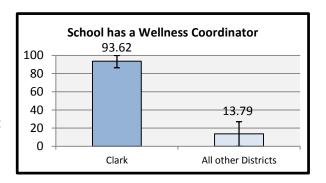


#### Middle Schools

We received surveys from four Nye County middle schools.

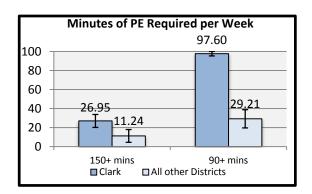
#### **School Wellness Coordinator**

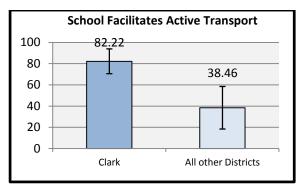
Wellness coordinators are essential for facilitating effective physical education and nutrition programs in schools. Only one Nye County middle school reported having a school wellness coordinator. The overwhelming majority of Clark County middle schools reported having a wellness coordinator, but a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



#### **Physical Education Minutes and Active Transport**

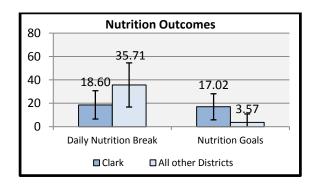
The national recommendation for middle schools is that students should receive at least 225 minutes of PE per week<sup>3</sup>. Our results suggest that most middle schools throughout the state of Nevada are not meeting that recommendation. In fact, most are not even providing at least 150 minutes of PE per week. Of the four Nye County middle schools, only one reported requiring at least 150 minutes of PE per week. Two reported requiring 90-149 minutes per week, and one reported requiring less than 60 minutes of PE per week. 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. Two Nye County middle schools reported having an active travel plan.

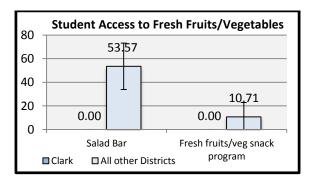




#### **Nutrition**

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. One Nye County middle school reported providing a daily nutrition break, but all four reported providing nutrition breaks on special occasions. All four Nye County middle schools reported having a salad bar for students, but only one reported participating in the fresh fruits and vegetables program. Finally, only one Nye County middle school reported having identified nutrition goals.



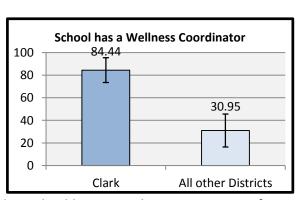


### **High Schools**

We received surveys from five Nye County high schools.

#### **School Wellness Coordinator**

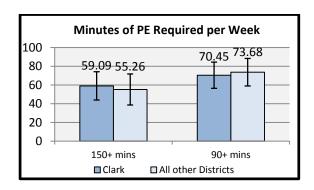
None of the five Nye County high schools reported having a school wellness coordinator. As shown in the figure to the right, though a substantial proportion of Clark County high schools report having a school wellness coordinator, that practice is not standard across the rest of the state, suggesting a major area for intervention.

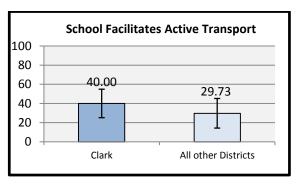


#### **Physical Education Minutes and Active Transport**

The national recommendation for high schools is that students should receive at least 225 minutes of PE per week<sup>3</sup>. Most high schools in Nevada do not meet this recommendation, and many do not even

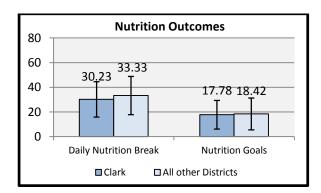
require 150 minutes of PE per week. In addition, most high schools in the state do not have an active travel plan for students. Within Nye County, only one high school reported requiring at least 150 minutes of PE per week and two reported requiring 90-149 minutes per week. Two Nye County schools also reported having an active travel plan.

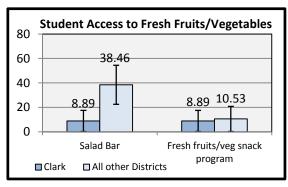




#### **Nutrition**

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. Only one Nye County high school reported having identified nutrition goals, and one reported providing daily nutrition breaks for students. Two Nye County high schools reporting having salad bars for students, but only one reported participating in a fresh fruits and vegetables program.





This report has provided Nye 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 Nye 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. 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 Activity<sup>4</sup>

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 in all school levels in Nye County.

#### 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. Three Nye County elementary schools reported meeting this recommendation but one did not. However, 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

This report found that variable Nye County schools participation in these nutrition programs. More Nye County schools provided student access to salad bar but only four elementary, one middle and one high school reported participation in the fresh fruits and vegetables program. Participation in both programs should be targeted for Nye County schools.

#### 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	lementa	ry Schools	3		Middl	e Schools					
	Nye		All		Nye		All		Nye		All	
	(N=7)	Clark	Others	t value	(N=4)	Clark	Others	t value	(N=5)	Clark	Others	t value
School has a school												
wellness coordinator	3	97.7	41.9	10.57***	1	93.6	13.8	10.72***	0	84.4	31.0	5.96***
School wellness policy is disseminated to staff												
annually	4	89.4	54.4	6.10***	2	69.6	39.3	2.60*	1	77.8	47.6	3.03**

#### PHYSICAL ACTIVITY

		Elementa	ary School	s		Middle	Schools			High Schools				
	Nye		All		Nye		All	t	Nye		All			
	(N=7)	Clark	Others	t value	(N=4)	Clark	Others	value	(N=5)	Clark	Others	t value		
School requires all														
students to participate in														
PE at least 150														
mins/week	1	27.0	11.2	3.26**	1	76.1	53.9	1.88	1	59.1	55.3	0.35		
School requires all														
students to participate in														
PE at least 90 mins/week	4	97.6	29.2	13.7***	3	84.8	76.9	0.79	3	70.5	73.7	-0.32		
PE taught by certified PE														
teacher during all PE														
lessons	6	99.4	54.6	8.35***	4	100.0	88.9	1.80	3	97.8	86.8	1.83		
Recess is provided at														
least 100 mins/week	3	33.5	53.4	-3.07**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Recess is characterized														
by the provision of loose														
balls	7	99.4	95.5	1.70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Recess is characterized														
by the provision of														
strategic playground or														
game markings	7	97.0	93.2	1.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Recess is characterized														
by the training of	5	66.1	44.3	3.39***	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

playground supervisors to promote PA												
School provides												
classroom activity breaks	6	83.4	77.5	1.11	3	36.8	48.0	-0.86	2	38.6	44.4	-0.52
School provides before	U	05.4	77.5	1.11	<u> </u>	30.0	40.0	0.00		30.0	77.7	0.52
school PA programs	2	51.5	26.7	4.00***	2	50.0	16.0	3.14**	0	39.5	14.7	2.55*
School offers intramural		31.3	20.7	4.00		30.0	10.0	3.14		33.3	14.7	2.55
programs before school	0	15.3	4.8	1.64	0	57.1	0.0	а	0	76.5	20.0	а
School offers organized	U	13.3	4.0	1.04	U	37.1	0.0	a	0	70.5	20.0	a
sports before school	0	15.5	19.1	-0.36	0	50.0	0.0	а	0	70.6	60.0	2
School offers walking	U	13.3	19.1	-0.30	U	30.0	0.0	а	U	70.0	00.0	а
programs before school	0	58.8	22.7	3.37**	0	25.0	33.0	а	0	25.0	25.0	а
School offers dance	U	30.0	22.7	3.37	U	23.0	33.0	а	U	23.0	23.0	a
before school	0	12.3	4.8	1.23	0	57.1	0.0	2	0	47.1	0.0	а
School provides after	U	12.3	4.0	1.23	U	37.1	0.0	а	U	47.1	0.0	а
school PA programs	2	66.1	55.2	1.66	2	93.5	65.4	2.75**	2	77.3	71.4	0.59
School offers intramural	2	00.1	55.2	1.00	2	93.5	05.4	2.75	2	//.3	/1.4	0.59
programs after school	1	45.8	32.6	1.47	0	93.0	46.7	3.33**	0	87.5	8.7	9.09***
School offers organized	1	45.8	32.0	1.47	U	93.0	40.7	3.33	U	87.5	8.7	9.09
_	0	56.9	F2 2	0.53	2	97.7	94.1	0.56	2	84.4	84.0	0.04
sports after school	U	56.9	52.2	0.53	2	97.7	94.1	0.56		84.4	84.0	0.04
School offers walking programs after school	0	22.6	21.4	0.15	0	11.1	13.3	-0.21	0	32.3	13.0	1.64
School offers dance after	U	22.0	21.4	0.15	U	11.1	15.5	-0.21	U	32.3	13.0	1.04
	0	42.9	21.4	2.63*	1	71.8	26.7	2 25**	0	93.8	20.1	4.84***
school	U	42.9	21.4	2.63*	1	/1.8	26.7	3.25**	0	93.8	39.1	4.84
School physical activity												
programming offered												
during school School offers intramural												
	4	24.6	10.1	0.44	4	22.2	45.5	-0.57	4	18.8	24.4	0.40
programs during school	1	21.6	19.1	0.41	1	33.3	45.5	-0.57	1	18.8	21.4	-0.18
School offers organized	1	20 C	22.2	0.72	1	44 7	26.4	0.25	1	F2.0	40.0	0.71
sports during school	1	38.6	33.3	0.72	1	41.7	36.4	0.25	1	52.9	40.0	0.71
School offers walking	0	42.0	27.5	0.71	0	27.2	10.3	0.40	0	27.5	21.4	0.04
programs during school School offers dance	0	42.9	37.5	0.71	0	27.3	18.2	0.49	0	37.5	21.4	0.94
	0	20.0	177	0.27	0	11 7	27.2	0.70	0	62.5	112	2.98**
during school	0	20.0	17.7	0.37	0	41.7	27.3	0.70	0	62.5	14.3	2.98
School supports active												
transport by providing	6	98.2	91.0	2.23*	4	97.8	96.3	0.36	3	84.4	79.0	0.64
bike rack storage	р	98.2	91.0	2.23	4	97.8	96.3	0.30	3	ŏ4.4	79.0	0.04

School supports active transport by having active travel plans (e.g., SRTS)	3	74.7	51 1	3.73***		2	82.2	38 5	3.87***	2	40.0	29.7	0.96
School supports active transport by implementing traffic	3	74.7	31.1	3.73		2	02.2	30.3	3.07	2	40.0	23.7	0.50
calming mechanisms	1	80.7	67.4	2.39*		1	54.4	40.5	1.12	2	60.0	55.3	0.43
Student access to PA is compromised for													
disciplinary reasons	3	31.7	38.2	1.04		0	15.6	37.0	-2.11*	1	15.9	36.8	-2.16*
Student access to PA is compromised for	_					_							
academic reasons	2	15.3	36.0	-3.53***		0	20.0	37.0	-1.59	0	13.6	18.4	-0.58
Student access to PA is compromised due to													
space not being available	1	6.2	8.0	-0.51		0	11.1	7.4	0.51		22.2	21.1	0.13
Both indoor and outdoor													
PA facilities are available	6	82.6	69.3	2.31*		4	97.8	92.6	0.93	3	84.4	81.6	0.34
Either indoor or outdoor													
PA facilities are available	1	16.8	30.0	-2.25*	N/	Ά	2.2	7.4	-0.93	0	6.7	2.6	0.85

#### **NUTRITION**

		Elementa	ary School	s		Middle	Schools		High Schools			
	Nye		All		Nye		All		Nye		All	
	(N=7)	Clark	Others	t value	(N=4)	Clark	Others	t value	(N=5)	Clark	Others	t value
Free breakfast is available												
to all students every day	4	47.1	40.0	1.09	4	51.1	40.7	0.85	1	60.0	33.3	2.51*
On typical school day, students are provided at least 15 mins to consume												
school breakfast	6	98.2	70.0	5.69***	4	100.0	78.6	2.71*	3	93.3	68.4	2.93**
School has a garden School garden is integrated into nutrition	0	30.6	22.5	1.43	1	6.4	14.3	-1.03	0	22.2	10.3	1.50
education program	N/A	58.0	47.4	0.77	0	b	b	b	N/A	40.0	25.0	a

Students are allowed to												
consume vegetables												
grown in school garden												
at school	N/A	76.9	80.0	-0.28	1	33.3	50.0	-0.38	N/A	66.7	100.0	a
Students have a salad												
bar/traveling salad bar	6	41.0	24.2	2.84**	4	0.0	53.6	-5.58***	2	8.9	38.5	-3.29**
School participates in												
fresh fruit and vegetable				a — a stastasta								
snack program	4	11.8	37.4	-4.51***	1	0.0	10.7	-1.80	1	8.9	10.5	-0.25
School provides breakfast	0	27.2	444	2.52*	0	0.0	7.4	4.44	0		- 1	0.45
in the classroom	0	27.2	14.4	2.52*	0	0.0	7.1	-1.44	0	4.4	5.1	-0.15
Water is freely available												
to students throughout school day	7	98.2	97.8	0.24	4	97.9	100.0	-1.00	3	97.8	97.4	0.10
School schedules daily	/	98.2	97.8	0.24	4	97.9	100.0	-1.00	3	97.8	97.4	0.10
nutrition breaks	3	19.4	48.3	-4.70***	1	18.6	35.7	-1.63	1	30.2	33.3	-0.30
School schedules	3	13.4	40.3	-4.70	1	10.0	33.7	-1.03		30.2	33.3	-0.30
nutrition breaks during												
special occasions	7	89.4	76.9	2.33*	4	86.7	77.3	0.97	2	70.7	62.9	0.72
School encourages staff					•				_			•
to use non-food												
incentives/rewards	7	97.0	91.2	1.78	4	89.4	77.8	1.35	2	63.6	74.4	-1.05
School participates in												
scripts, box tops, or												
labels for education	4	96.5	90.1	1.84	3	74.5	64.3	0.93	1	22.2	20.5	0.19
Scripts	0	4.3	11.1	-1.78	0	8.9	8.0	0.13	0	2.2	2.6	-0.10
Box tops	4	96.5	90.1	1.83	3	74.5	60.7	1.25	1	20.0	18.0	0.24
Labels	2	29.7	38.1	-1.31	0	13.3	8.0	0.66	0	6.7	7.7	-0.18
Nutrition education is	_	,	20.2				5.5			2	, , ,	
integrated into												
curriculum	5	90.5	64.4	4.68***	3	78.7	71.4	0.71	2	84.4	79.5	0.59
School has identified												
nutrition education goals	2	16.0	12.1	0.87	1	17.0	3.6	2.04*	1	17.8	18.4	-0.07
School has identified												

#### 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.

<sup>\*</sup>p<0.05; \*\*p<0.01; \*\*\*p<0.001; two-tailed t-tests for differences in proportions/percentages;

<sup>&</sup>lt;sup>a</sup> Sample is not large enough for statistical test <sup>b</sup> No responses provided

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#### **Endnotes**

<sup>&</sup>lt;sup>1</sup> Established by Child Nutrition and Women, Infant, and Child Reauthorization Act of 2004; Reinforced by the Healthy, Hunger-Free Kids Act of 2010

<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> 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.

<sup>&</sup>lt;sup>4</sup> 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.

<sup>&</sup>lt;sup>5</sup>The Centers for Disease Control report can be found at:

 $<sup>\</sup>frac{\text{http://static.squarespace.com/static/53b1a843e4b0dcbabf4b4b85/t/53d15be7e4b0a7d1d7db0e7d/14062294799}{98/\text{health-academic-achievement.pdf})}$