RETREATISMOTANION OPTION

Healthier school meals protect our children and our country





RETREAT IS NOT AN OPTION: A message from retired 4-star admirals and generals



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Thile the Nation's obesity epidemic makes daily headlines, its effect on the U.S. military has largely been unreported: a 61 percent rise in obesity since 2002 among active duty forces; more than \$1.5 billion in annual obesity-related health care spending and costs to replace unfit personnel; significant recruiting challenges with nearly one in four young adults too heavy to serve; and newly released data in this report showing overall ineligibility above 70 percent in most states.

With this in mind, the more than 450 retired senior military leaders who comprise MISSION: READINESS are marking the start of the third school year in which-thanks to Congress' enactment of the Healthy, Hunger-Free Kids Act of 2010-millions of students are now eating healthier school meals with more whole grains, fruits, vegetables and lean proteins. This is also the first year in which candy and many other high-calorie, low-nutrient snacks and beverages in vending machines and elsewhere are being replaced with healthier snacks and drinks.

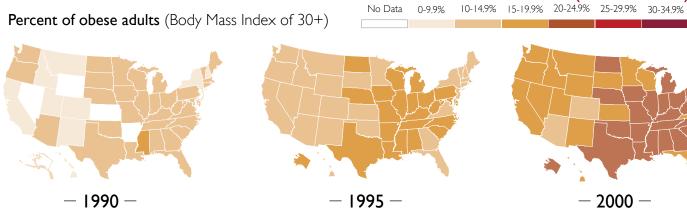
These changes are important victories in the battle against obesity. America's youth spend considerable time at school, and many young people consume up to half of their daily calories there. If we are to win, schools must be our allies.

According to the U.S. Department of Agriculture (USDA), more than 90 percent of the country's school districts are successfully meeting the healthier meal standards. Recent surveys indicate widespread student acceptance of healthier lunches across all grade levels. Furthermore, 72 percent of parents nationwide favor updated nutrition standards for school meals and school snacks, while 91 percent favor requiring schools to serve fruits or vegetables with every meal. From a financial perspective, USDA projects that school food service revenue will far outpace costs over five years.

We understand that some schools need additional support to help meet the updated standards, such as better equipment and more staff training, and that support should be provided. At the same time, moving forward with implementation of the standards for all schools is paramount. Students depend on schools to reinforce efforts by parents and communities to put them on track for healthy and productive lives. Healthy school meals and snacks are a vital part of that effort.

When it comes to children's health and our national security, retreat is not an option.

THE SPREADING EPIDEMIC OF OBESITY IN AMERICA (1990-2013)



RETREAT IS NOT AN OPTION

NEARLY 1 IN 4 IS TOO HEAVY TO JOIN, & 1 IN 8 WHO GOT IN IS NOW OBESE

The more than 450 retired military leaders who comprise MISSION: READINESS know that healthier school meals and snacks are vital for addressing the nation's obesity epidemic and supporting national security as well.

Our previous reports—including *Too Fat to Fight*—have detailed how weight and fitness problems often prevent young people from qualifying for the military. Data now show that these issues also pose tremendous challenges for millions of active duty personnel.

Currently, 12 percent of active duty service members are obese based on height and weight—an increase of 61 percent since 2002—which is resulting in serious problems with injuries and dismissals.¹ Given that one-third of American children and teens are now obese or overweight and nearly one-quarter of Americans ages 17 to 24 are too overweight to serve in our military, the obesity rate among active duty service members could get even worse in the future if we do not act.² Obesity among our military and their families is costing our defense budget well over \$1.5 billion a year in health care spending and recruiting replacements for those who are too unfit to serve.³

IT WAS NOT ALWAYS LIKE THIS

When World War II began, frequent undernourishment and health problems stemming from the Great Depression meant that our troops were, on average, an inch and a half

What has changed?

Due to poor nutrition and health before World War II, U.S. troops in the war were on average 1.5 inches shorter than today.



That is why General Hershey, the Director of Selective Service, called for Congress to approve a National School Lunch program in 1945.

Mostly due to excess calories and too little exercise, young adults today are on average 20 pounds heavier than in 1960.



That is why over 450 retired admirals and generals support healthier meals and snacks in our schools.

See page 8 for new data by state on how many Americans cannot join the military.

shorter than troops are today. In fact, military leaders led by Major General Lewis B. Hershey (the Director of the Selective Service System at the time) stepped in and urged Congress to pass a national school lunch program to improve the health and well-being of our nation's children and youth.⁴

Today, however, children are surrounded by too many calories and not enough opportunities for exercise, a combination that has played a major role in the tripling of childhood obesity rates over the past three decades.

THE SPREADING EPIDEMIC OF OBESITY IN AMERICA (1990-2013)

Percent of obese adults (Body Mass Index of 30+)



-2010-

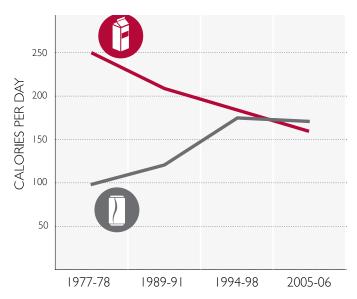
15-19.9% 20-24.9% 25-29.9% 30-34.9%

- 2013 -

-2005-

Trends in calories consumed from sugary drinks and milk

Children, Ages 2-18



Source: Trust for America's Health

Lower consumption of calcium and vitamin D coupled with less exercise leads to more stress fractures.

> Young American men as a whole are now 20 pounds heavier than the average male in his twenties was in 1960.5

Obesity is one of the main reasons why more than 70 percent of young Americans are unable to serve in today's military. This includes young adults in families with generations of military service, and others who have the critical skills our military needs but cannot join simply because of too many extra pounds.6

WHAT HAS HAPPENED?

Children's biology has not changed in the course of a single generation. What has changed dramatically is our nutritional and exercise environment. Things that would have been considered absurd in the 1960s are now commonplace in American society, such as drinking sugary drinks daily instead of milk or water, or watching television and playing video games all afternoon instead of riding bikes and playing outside with friends.

Obesity is not the only problem. During the critical adolescent years for bone growth-ages 11 to 14 for girls and 13 to 17 for boys-children have a heightened need

for calcium, vitamin D and exercise. But 85 percent of girls and 58 percent of boys at these ages are not getting enough calcium and nearly half of boys and girls in those age groups are not getting enough vitamin D in their diets.⁷ One reason for this problem is that consumption of milk has dropped and been overtaken by rising consumption of sugary drinks.8 Compounding the problem, more than two-thirds of adolescents do not get the recommended hour of exercise daily. More exercise will help with our national problem of obesity, but that is only one part of the equation.¹⁰

THE MILITARY IS NOT IMMUNE

Our country should rightly be proud of everyone serving in uniform. The majority of the men and women in the military are very fit and form the strongest overall fighting force in America's history.

Yet even the military is not immune to rising weight problems among some troops. These problems are not only a challenge for military recruiters looking for enough fit individuals, but they are also leading to increased injuries and dismissals among those who serve.

For example, the military's basic training programs work wonders to get young men and women into shape rapidly by replacing fat with muscle. But many recruits enter basic training with significant challenges:

- Each year, thousands of recruits lose 20 pounds or more to join the military, and they are at a higher risk of gaining that weight back once they leave basic training.11
- According to one study, one out of every seven male Army recruits reported that they had not exercised or played any sports in a typical week prior to joining.¹²

Keeping young men and women in shape after basic training is another challenge:

- One study of more than 2,000 men in a U.S. Army light-infantry brigade in Afghanistan found that 14 percent were obese.13
- Across the military, too many men and women are not just overweight but actually obese. In 2002, less than eight percent of active duty service members were obese, but by 2011 that figure had jumped to



more than 12 percent—a 61 percent increase.14

Basic training can help to build a lot of muscle, but strengthening bones is not as easy. The military is facing an unprecedented rise in the type of injuries that stem, in part, from poor nutrition and lack of physical activity in adolescence:

- The obese service members in the brigade in Afghanistan were 40 percent more likely to experience an injury than those with a healthy weight, and slower runners were 49 percent more likely to be injured.¹⁵
- This higher risk of injuries has serious consequences for our forces in combat: there were 72 percent more medical evacuations from Afghanistan and Iraq to Germany for stress fractures, serious sprains and other similar injuries than for combat wounds.¹⁶

Finally, problems with weight and fitness are leading to dismissals among those who serve, and are placing significant burdens on our defense budget:

- Thousands of unfit personnel are let go each year at a great cost to taxpayers. In 2012, for example, the Army dismissed 3,000 soldiers and the Navy and Air Force each dismissed 1,300 service members for being overweight or out of shape. The cost to recruit, screen and train their replacements amounts to nearly half a billion dollars.¹⁷
- The military spends well over \$1 billion a year to treat weight-related health problems such as heart disease and diabetes through its TRICARE health insurance for active duty personnel, reservists, retirees and their families.¹⁸
- Obesity is contributing greatly to rising health care spending within the military, which now accounts for 10 percent of the total defense budget.¹⁹

THE TRANSITION TO HEALTHIER MEALS IN SCHOOLS IS WORKING

Good nutrition starts at home, and parents play a central role. But with children consuming up to half of their daily calories while at school and out of sight of their parents, schools should be a focal point in the nation's effort to combat childhood obesity.

Since the bipartisan enactment of the Healthy, Hunger-Free Kids Act in 2010, the vast majority of schools have implemented updated nutrition standards successfully. USDA is providing kitchen equipment grants and technical assistance to schools that are facing challenges implementing the updated standards. We should continue to support any schools that are having a tougher time, but like our armed forces, we should not stop when the going gets tough.

The new approach of serving healthier food and drinks in schools is working, according to available research and data:

- According to the U.S. Department of Agriculture (USDA), more than 90 percent of schools are successfully serving healthier meals.²⁰
- In a study published in Childhood Obesity, 70 percent of elementary school administrators concluded that "students like the new lunches" and that acceptance of the changes had grown over time.21
- A recent poll showed that, across party lines, the majority of parents support the updated nutrition standards for school meals and snacks. Nine out of ten parents also support requiring schools to include a serving of fruits or vegetables with every meal.²²



- A study by Harvard University researchers found that plate waste (food thrown away) decreased when the updated nutrition standards were put in place in a large, urban school district.²³
- The same Harvard study found that under the new guidelines, children added 23 percent more fruits to their plates, and children ate 16 percent more vegetables.24
- Schools received an additional \$200 million in revenue during the first year of implementation of the updated standards due to increased reimbursement rates. USDA has also provided \$36 million in kitchen

THE MILITARY'S INNOVATIVE EFFORTS TO ADDRESS OBESITY

Our armed services are working hard to change the nutritional and exercise environment within the military.

In 2013, the military launched a campaign called Operation Live Well to improve the health of our troops and their families. Chief among these efforts is the Healthy Base Initiative at 14 pilot sites across the country, aimed at promoting health among troops and their families by educating them about the dangers of a sedentary lifestyle and poor nutrition and creating environments that support healthy behavior. The initiative will allow the military to see which innovations are working at different bases and identify the ones that could be expanded service-wide. The Department of Defense is currently collecting and evaluating results from the first phase, which will be reported by August 2015.33

Services have also launched their own initiatives. The Army's "Go for Green" initiative, for example, uses food and beverage labels to point out "high performance food" (marked in green) and "performance limiting food" (marked in red) in meal lines and

vending machines. It has also changed menus to include more nutrient-dense foods, including whole grains, green vegetables and reduced-fat milk, as well as fewer fried foods and sugary beverages than in the past.³⁴ Meanwhile, the Air Force offers courses to parents living on bases about how to encourage their

young children to eat healthier foods and become more active. Another class provides health coaches to retirees who are at risk for obesity-related health problems.³⁵ In response to the consequences of obesity and lack of fitness, the Navy has made accommodations for individuals who are less fit or more prone to injuries by giving every recruit custom-

fitted running shoes and using more forgiving materials on their tracks,36

Experts in the military know that this problem did not emerge overnight and will not go away overnight, but they are committed to coming up with long-term solutions that provide real results. However, the military cannot reverse the nation's obesity epidemic on its own.

KNOWLEDGE IS POWER:

Educating Parents and Children

Serving healthier foods and drinks in schools can have a ripple effect; for example, school nutrition directors have reported that parents sometimes request recipes after their children come home asking that they make the meal they had in school.³⁷ But in addition to serving children healthier food in schools, we need to make sure children and their parents have access to information as well. For example, 51 percent of parents of overweight or obese children think their child's weight is normal or even underweight.³⁸ Also, too many children and adults are unaware that a typical, 20-ounce bottle of soda sold in most public vending machines includes the equivalent of up to 18 teaspoons of sugar.³⁹







Three Miles of Walking (12 times around the track)

Source: New York City Health Department

equipment grants and targeted technical assistance to help struggling schools achieve implementation.²⁶

- Based on USDA projections, it is likely that as children shift from buying snacks for lunch to buying more meals, the additional revenue generated will be higher than the costs of providing healthier options.²⁷
- Schools with modern and adequate food storage and kitchen equipment have adjusted more easily to the updated nutrition standards. Providing
 - funding for schools in need of new kitchen equipment is one effective strategy to improve compliance with the new standards.28
- While school lunch participation declined slightly overall from 2010 to 2013, participation among those receiving free lunches actually increased. Moreover, declines appear to have been concentrated in relatively few schools, as 84 percent of school administrators reported that the number of students purchasing lunches remained steady or increased following implementation of the updated guidelines. For example, the Los Angeles Unified School District (one of the nation's largest

school districts) experienced a 14 percent increase in participation following implementation of the updated standards.²⁹

EXAMPLES OF SCHOOLS THAT ARE MAKING IT WORK

Kentucky's Fort Campbell Schools is a Department of Defense Education Activity (DoDEA) school district with nine schools and 4,700 students located on the Fort Campbell Army base. Like most DoDEA schools, the Fort Campbell district participates in the National School Lunch Program. To begin implementing the updated standards, the district formed a partnership with registered dieticians at a nearby Army hospital, which helped each school develop an

> action plan to achieve its nutrition goals. The district made sure that food service workers received extensive training on the standards and created a competition to reward an "outstanding cafeteria." The food service director also got creative, changing the vegetable selection every day after students reported that they liked the variety. With help from the dieticians, the district also launched a Farm-to-School program to get more fresh produce into lunches-"the first Department of Defense school system to undertake such an effort."30



Alabama's Hoover City Schools is a large district with 16 schools and nearly 14,000 students. As a participant in the U.S. Department of Agriculture's HealthierUS School Challenge, the district's meals were already close to meeting the

updated standards for school meals before they went into effect. They still faced challenges, however, with getting students and parents on board with the healthier choices.



A local farmer delivering vegetables to a Fort Campbell middle school.

Photo credit: Fort Campbell Courier

The solution? Catchy initiatives like "Beets and Sweets" (chopped beets mixed with sweet potatoes) and a phone app that tells parents what the next day's menu item will be along with total calories. District leaders also paid closer attention to what students liked, finding that students were more likely to eat roasted vegetables and buy trendy items such as hummus and Greek yogurt from a la carte lines. Since 2011, the district has reported both an improvement in the productivity of lunch preparation and an increase in snack revenues after their state nutrition standards for snacks were implemented.31

CONCLUSION

We all want our children to grow up stronger and healthier, not weaker and sicker.

That will require improving the eating and exercise habits that have led to the tripling of childhood obesity rates since 1980, military obesity rates increasing by 61 percent in less than a decade, and countless billions of dollars spent treating preventable illness and disease.

There are signs that recent efforts to provide children with healthier food and beverages at school, more nutrition education, and more exercise opportunities may be beginning to cause this dangerous epidemic to level off among most children and even some encouraging evidence that obesity is beginning to fall among our youngest children. Unfortunately, adult obesity increased in some states in 2013 and remained high overall.³² We need to do more, however, to make the healthy choice the easy and accessible choice for every child in every community.

We must continue building on these signs of progress for the sake of our children's health, our economic competitiveness and our national security. The more than 450 retired admirals and generals who are members of MISSION: READINESS are standing strong to keep school nutrition standards on track, because when our national security and our children's health are at stake, retreat is not an option.

PERCENT OF HIGH SCHOOL STUDENTS WHO ARE OVERWEIGHT OR OBESE (2013)

STATE	RATE
Alabama	33%
Alaska	26
Arizona	24
Arkansas	34
California	41%*
Colorado	18%*
Connecticut	26
Delaware	30
Florida	27
Georgia	30
Hawaii	28
Idaho	26
Illinois	25
Indiana	30%*
lowa	27%*
Kansas	29
Kentucky	33
Louisiana	29
Maine	26
Maryland	26
Massachusetts	23
Michigan	28
Minnesota	N/A
Mississippi	28
Missouri	31
Montana	22
Nebraska	27
Nevada	26
New Hampshire	25
New Jersey	23
New Mexico	28
New York	25
North Carolina	28
North Dakota	28
Ohio	29
Oklahoma	27
	N/A
Oregon Pennsylvania	28*
Rhode Island	27
	31
South Carolina	25
South Dakota	
Tennessee	32
Texas	32 17
Utah	
Vermont	29
Virginia	27
Washington	N/A
West Virginia	32
Wisconsin	25
Wyoming	24

^{*}California estimate based on both BMI and body fat; from the 2012-13 California Physical Fitness Report for ninth grade students only. *Colorado data from 2011

Source: Centers for Disease Control and Prevention

^{*}Indiana data from 2011

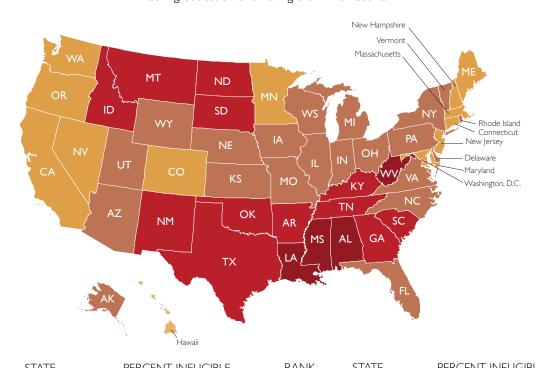
^{*}lowa data from 2011

^{*}Pennsylvania data from 2009

MILITARY INELIGIBILITY AMONG YOUNG AMERICANS AGES 17-24

Source: Department of Defense, 2014

Three leading causes of ineligibility are being overweight, lacking education and having a criminal record.



RANK	STATE	PERCEN	T INELIC	GIBLE
51	Mississippi		78%	
50	District of Columbia		78%	
49	Louisiana		76%	
48	Alabama		75%	
47	West Virginia		75%	
46	Arkansas		74%	
45	South Carolina		74%	
44	Tennessee		74%	
43	North Dakota		73%	
42	Montana		73%	
41	South Dakota		73%	
40	Kentucky		73%	
39	New Mexico		73%	
38	Oklahoma		73%	
37	Texas		73%	
36	Georgia		73%	
35	Idaho		73%	
34	Rhode Island		72%	
33	North Carolina		72%	
32	Missouri		72%	
31	Indiana		72%	
30	Arizona		72%	
29	Pennsylvania		72%	
28	Utah		72%	
27	Ohio		72%	

DANIZ

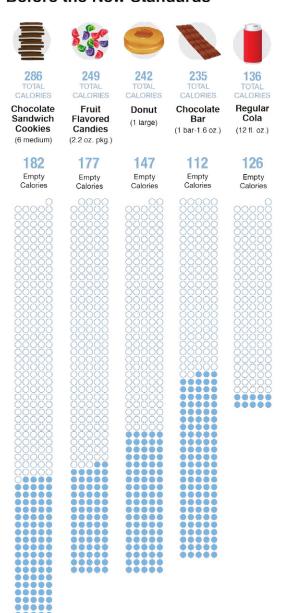
RANK	STATE PERCENT INELIGIBLE		
26	Michigan	715	%
25	Florida	715	%
24	Vermont	715	%
23	Virginia	715	%
22	Wisconsin	715	%
21	Delaware	715	%
20	Nebraska	715	%
19	Wyoming	715	%
18	New York	715	%
17	Iowa	715	%
16	Kansas	715	%
15	Alaska	715	%
14	Illinois	715	%
13	Maine	709	%
12	Nevada	709	%
11	Oregon	709	%
10	New Hampshire	709	%
9	Maryland	709	%
8	California	709	%
7	Massachusetts	709	%
6	Colorado	709	%
5	Minnesota	699	%
4	Connecticut	699	%
3	Washington	699	%
2	New Jersey	699	%
I	Hawaii	629	%



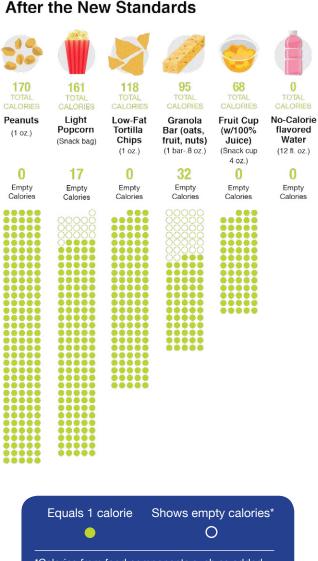
IN SCHOOL

The Healthy, Hunger-Free Kids Act of 2010 requires USDA to establish nutrition standards for all foods sold in schools — beyond the federallysupported meals programs. This new rule carefully balances science-based nutrition guidelines with practical and flexible solutions to promote healthier eating on campus. The rule draws on recommendations from the Institute of Medicine, existing voluntary standards already implemented by thousands of schools around the country, and healthy food and beverage offerings already available in the marketplace.

Before the New Standards



After the New Standards



ENDNOTES

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WHO WE ARE

Mission: Readiness is the nonprofit, nonpartisan national security organization of more than 450 retired generals, admirals and other senior retired military leaders who work to ensure continued American security and prosperity by calling for smart investments in the upcoming generation of American children. It operates under the umbrella of the nonprofit Council for a Strong America.

ACKNOWLEDGMENTS

Mission: Readiness is supported by tax-deductible contributions from foundations, individuals, and corporations. Mission: Readiness accepts no funds from federal, state, or local governments.

This report was supported by a grant from the Robert Wood Johnson Foundation.

Major funding for Mission: Readiness is provided by: Alliance for Early Success • The Boeing Company • The California Education Policy Fund • The California Endowment • The Annie E. Casey Foundation • CME Group Foundation • Sam L. Cohen Foundation • The Colorado Health Foundation • Early Care and Education Funders Collaborative of The Washington Area Women's Foundation • Ford Foundation • Bill & Melinda Gates Foundation • The Grable Foundation • George Gund Foundation • The Leona M. and Harry B. Helmsley Charitable Trust • The William and Flora Hewlett Foundation • Robert Wood Johnson Foundation • W.K. Kellogg Foundation • The Kresge Foundation • Oscar G. and Elsa S. Mayer Family Foundation • The David & Lucile Packard Foundation • William Penn Foundation • The Pew Charitable Trusts • The J.B. and M.K. Pritzker Family Foundation • Rauch Foundation. The views expressed herein are those of the author(s) and do not necessarily reflect the views of The Pew Charitable Trusts or any of the other supporters listed here.

This report was written by William Christeson, Kara Clifford, and Amy Dawson Taggart. Chris Beakey and David Carrier also contributed to this report. Design by Soren Messner-Zidell and Stefanie Campolo.



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