## APPENDIX 0

# SAMPLE TABLE SHELLS 

## School Nutrition Dietary <br> Assessment Study IV

(OMB No.: 0584-0527)

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# CHARACTERISTICS OF PUBLIC SCHOOL FOOD AUTHORITIES (SFAs) <br> PARTICIPATING IN THE NSLP AND THE SBP AND OFFERING REIMBURSABLE AFTERSCHOOL SNACKS 

| Percentage of SFAs | Participating in the NSLP | Participating in the SBP | Offering Reimbursable Snacks |
| :---: | :---: | :---: | :---: |
| Child Poverty Rate |  |  |  |
| Low (less than 30 percent) |  |  |  |
| Higher (30 percent or more) |  |  |  |
| Urbanicity |  |  |  |
| Primarily serves as a central city of MSA |  |  |  |
| Serves as MSA but not primarily its central city |  |  |  |
| Does not serve as MSA |  |  |  |
| Enrollment |  |  |  |
| 5,000 or fewer |  |  |  |
| More than 5,000 |  |  |  |
| Enrollment Growth between 2000 and 2005 |  |  |  |
| Negative (decline of xx percent) |  |  |  |
| Low (from none to less than xx percent) |  |  |  |
| Higher (xx percent or more) |  |  |  |
| Number of Schools |  |  |  |
| 1-2 schools |  |  |  |
| 3-5 schools |  |  |  |
| 6-7 schools |  |  |  |
| 8+ schools |  |  |  |
| District Includes Charter Schools |  |  |  |

Source: School Nutrition Dietary Assessment-IV and U.S. Department of Education's Common Core of Data.

TABLE 0.2

PREVALENCE OF DIFFERENT TYPES OF BEVERAGES IN VENDING MACHINES

|  | Elementary Schools | Middle Schools | High Schools | All Schools |
| :---: | :---: | :---: | :---: | :---: |
| Types of Beverages | Percentage of Items Offered ${ }^{\text {a }}$ |  |  |  |
| Diet carbonated soft drink (diet soda) |  |  |  |  |
| Regular carbonated soft drink (regular soda) |  |  |  |  |
| Juice (100\% fruit or vegetable juice) |  |  |  |  |
| Juice drinks and other sweetened drinks (cranberry drink, fruit blends, Hi-C, lemonade, punch, iced tea) |  |  |  |  |
| Bottled water (flavored or sparkling) |  |  |  |  |
| Energy and sports drinks (Gatorade, PowerAde, Red Bull) |  |  |  |  |
| Hot or cold chocolate drinks (NOT chocolate milk) |  |  |  |  |
| Whole or reduced fat (2\%) white milk |  |  |  |  |
| Low-fat (1\%) white milk |  |  |  |  |
| Fat-free/skim white milk |  |  |  |  |
| Flavored milk |  |  |  |  |
| Other |  |  |  |  |

Source: School Nutrition Dietary Assessment-IV Vending Machine Checklist.
${ }^{a}$ Percentage of filled front slots, in machines where slots are visible, or buttons that were not sold out.

TABLE 0.3
PREVALENCE OF DIFFERENT TYPES OF FOOD IN VENDING MACHINES
$\left.\begin{array}{llll}\hline & \begin{array}{c}\text { Elementary } \\ \text { Schools }\end{array} & \begin{array}{c}\text { Middle } \\ \text { Schools }\end{array} & \begin{array}{c}\text { High } \\ \text { Schools }\end{array} \\ \text { Schools }\end{array}\right]$

Source: School Nutrition Dietary Assessment-IV Vending Machine Checklist.
${ }^{\text {a }}$ Percentage of filled front slots, in machines where slots are visible, or buttons that were not sold out.

TABLE 0.4

## PROPORTION OF SCHOOLS OFFERING NSLP LUNCHES THAT SATISFIED EACH, ALL, AND SOME OF THE SMI NUTRIENT STANDARDS AND OTHER NUTRITION BENCHMARKS

|  | Standard/ Recommendatio n | Elementary Schools | Middle <br> Schools | High Schools | All Schools |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SMI Nutrient Standards |  |  |  |  |  |
| Food energy | $33 \%$ of 1989 REA |  |  |  |  |
| Protein | $33 \%$ of 1989 RDA |  |  |  |  |
| Vitamin ${ }^{\text {a }}$ | $33 \%$ of 1989 RDA |  |  |  |  |
| Vitamin C | $33 \%$ of 1989 RDA |  |  |  |  |
| Calcium | $33 \%$ of 1989 RDA |  |  |  |  |
| Iron |  |  |  |  |  |
| Percentage of energy from total fat | $\leq 30 \%$ |  |  |  |  |
| Percentage of energy from saturated fat | $<10 \%$ |  |  |  |  |
| Other Nutrition Benchmarks |  |  |  |  |  |
| Cholesterol | < $100 \mathrm{mg}^{\text {b }}$ |  |  |  |  |
| Sodium | $<767 \mathrm{mg}^{\text {b }}$ |  |  |  |  |
| Dietary fiber | $33 \%$ of target ${ }^{\text {c }}$ |  |  |  |  |
| Percentage of energy from total fat | $25 \%-35 \%^{d}$ |  |  |  |  |
| Combinations of Standards |  |  |  |  |  |
| All SMI standards |  |  |  |  |  |
| SMI standards for all RDA nutrients ${ }^{\text {e }}$ |  |  |  |  |  |
| SMI standards for all RDA nutrients ${ }^{\text {e }}$ and SMI |  |  |  |  |  |
| standard for saturated fat <br> SMI standards for all RDA nutrients, ${ }^{e}$ SMI standard for saturated fat, and AMDR standard for total fat |  |  |  |  |  |
| Updated standards for all RDA nutrients, ${ }^{f}$ SMI standard for saturated fat, and AMDR standard for total fat |  |  |  |  |  |

Source: School Nutrition Dietary Assessment Study-IV, Menu Survey, school year 2009-2010. Tabulations prepared by Mathematica Policy Research, Inc. are weighted to be representative of all public schools offering the NSLP.
${ }^{\mathrm{a}}$ In retinol equivalents (RE).
${ }^{\text {b }} 2005$ Dietary Guidelines for Americans recommendation; not SMI standard. Benchmarks reflect one-third of suggested maximum daily intake.

TABLE O. 4 (continued)
${ }^{\text {c }}$ The daily target for dietary fiber is based on one-third of the Dietary Guidelines for Americans 2005 recommendation for daily fiber intake of $14 \mathrm{~g} / 1,000$ calories.
${ }^{\mathrm{d}}$ Acceptable Macronutrient Distribution Range defined in the Dietary Reference Intakes and used in the Dietary Guidelines for Americans 2005.
${ }^{\mathrm{e}}$ Includes protein, vitamin A, vitamin C, calcium and iron.
${ }^{\mathrm{f}}$ Updated to reflect RDA values included in the Dietary Reference Intakes.
SMI = School Meals Initiative for Healthy Children; REA = Recommended Energy Allowance; RDA = Recommended Dietary Allowance; AMDR = Acceptable Macronutrient Distribution Range.
*Difference between elementary and middle schools is significantly different from zero at the .05 level.
**Difference between middle and high schools is significantly different from zero at the .05 level.
***Difference between elementary and high schools is significantly different from zero at the .05 level.

TABLE 0.5
PROPORTION OF SCHOOLS OFFERING NSLP LUNCHES THAT MET THE MINIMUM ENERGY AND NUTRIENT STANDARDS FOR REQUIRED GRADE GROUPS
$\left.\begin{array}{lcccccc} & & & & \\ & & \text { Grades K-3 } & & \text { Grades K-6 } & & \text { Grade 4-12 }\end{array}\right]$

Source: School Nutrition Dietary Assessment Study-IV, Menu Survey, school year 2009-2010. Tabulations prepared by Mathematica Policy Research, Inc. are weighted to be representative of all public schools offering the NSLP.
${ }^{a}$ In retinol equivalents (RE).

PROPORTION OF SCHOOLS OFFERING NSLP LUNCHES THAT MET THE MINIMUM ENERGY AND NUTRIENT STANDARDS FOR OPTIONAL AGE GROUPS

|  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ages 3-6 | Ages 7-10 | Ages 11-13 | Ages 14 and Older |  |  |
| Meal Pattern Type | NSMP/ANSMP | NSMP/ANSMP | NSMP/ANSMP | NSMP/ANSMP |  |  |
|  | Standard | \% Meeting | Standard | \% Meeting | Standard | \% Meeting |

Food energy
Protein
Vitamin A
Vitamin C
Calcium
Iron

## Number of Schools

Source: School Nutrition Dietary Assessment Study-IV, Menu Survey, school year 2009-2010. Tabulations prepared by Mathematica Policy Research, Inc. are weighted to be representative of all public schools offering the NSLP.
${ }^{\mathrm{a}}$ In retinol equivalents (RE).

TABLE 0.7
MYPYRAMID EQUIVALENTS IN LUNCHES OFFERED, ELEMENTARY SCHOOLS

|  | Calorie Levels ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1,200 |  |  | 1,400 |  |  | 1,600 |  |  | 1,800 |  |  |
| Males | n/a |  |  | 6 to 8 years |  |  | 9 to 10 years |  |  | 11 to 12 years |  |  |
| Females | 6 to 7 years |  |  | 8 to 10 years |  |  | 11 to 12 years |  |  | n/a |  |  |
|  | Rec Amount | Mean <br> Amoun <br> t | Percentag e Rec ${ }^{\text {c }}$ | Rec Amount b | Mean <br> Amoun t | Percentag e Rec ${ }^{\text {c }}$ | Rec Amount b | Mean Amoun t | Percentag e Rec ${ }^{\text {c }}$ | Rec Amount b | Mean Amoun t | Percentag e Rec ${ }^{\text {c }}$ |
| Fruits |  |  |  |  |  |  |  |  |  |  |  |  |
| Vegetables Dark green Orange Legumes Starchy Other |  |  |  |  |  |  |  |  |  |  |  |  |

## Grains

Meats and
Beans
Milk
Oils
Discretionar
y Calories
${ }^{\text {a }}$ MyPyramid assigns individuals to a calorie level based on their sex, age, and activity level. Sedentary activity levels are used to identify calorie levels.
${ }^{\text {b }}$ Recommended daily amount of food from each group within calorie level with the exception of the vegetable subgroups. Vegetable subgroups are recommended amounts per week.
${ }^{\text {c }}$ Percent of recommended daily amount from each group within calorie level

TABLE 0.8
MEAN AMOUNT OF MYPYRAMID FOOD GROUPS AND HEALTHY EATING INDEX COMPONENTS,
IN AVERAGE LUNCH OFFERED, BY SCHOOL TYPE

|  | Rec Amount per 1,000 calories ${ }^{\text {a }}$ | Elementary Schools |  | Middle Schools |  | High Schools |  | All Schools |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Mean Amoun t | Percentag e Rec | Mean <br> Amoun t | Percentag e Rec | Mean <br> Amoun t | Percentag e Rec | Mean <br> Amoun t | Percentag e Rec |
| Total Fruit | $\geq 0.8$ cup |  |  |  |  |  |  |  |  |
| Whole Fruit (not juice) | $\geq 0.4$ cup |  |  |  |  |  |  |  |  |
| Total Vegetables | $\geq 1.1$ cup |  |  |  |  |  |  |  |  |
| Dark green and Orange Vegetables and Legumes | $\geq 0.4$ cup |  |  |  |  |  |  |  |  |
| Total Grains | $\geq 3.0 \mathrm{oz}$ |  |  |  |  |  |  |  |  |
| Whole Grains | $\geq 1.5 \mathrm{oz}$ |  |  |  |  |  |  |  |  |
| Milk | $\geq 1.3$ cup |  |  |  |  |  |  |  |  |
| Meat and Beans | $\geq 2.5 \mathrm{oz}$ |  |  |  |  |  |  |  |  |
| Oils | $\geq 12 \mathrm{gm}$ |  |  |  |  |  |  |  |  |
| Saturated Fat | $\leq 7 \%$ of total energy |  |  |  |  |  |  |  |  |
| Sodium | $\leq 0.7 \mathrm{gm}$ |  |  |  |  |  |  |  |  |
| SoFAAS | $\leq 20 \%$ of total energy |  |  |  |  |  |  |  |  |

${ }^{\text {a }}$ Recommended amounts for HEI-2005 components are based on recommendations found in MyPyramid and were created using a density approach, expressed per 1,000 calories. The lowest amounts for achieving the maximum score for each component are used as the standard.

SoFAAS = Solid fat, alcohol, and added sugar

TABLE 0.9
MEAN FOOD ENERGY AND NUTRIENT CONTENT OF NSLP LUNCHES SERVED TO STUDENTS IN SY 1998-1999, SY 2004-2005, AND SY 2009-2010

|  | $\begin{aligned} & \text { SY 2009-2010 } \\ & \text { (SNDA-IV) } \end{aligned}$ |  | $\begin{aligned} & \text { SY 2004-2005 } \\ & \text { (SNDA-III) } \end{aligned}$ |  | $\begin{gathered} \text { SY 1998-1999 } \\ \text { (SNDA-II) } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mean | SE | Mean | SE | Mean | SE |
| ELEMENTARY SCHOOLS |  |  |  |  |  |  |
| Food energy (calories) |  |  | 676 | 8.3 | 695 | 6.9 |
| Total fat (g) |  |  | 25 | 0.5 | 26 | 0.3 |
| Saturated fat (g) |  |  | 8 | 0.1 | 9 | 0.2 |
| Carbohydrate (g) |  |  | 88 | 1.3 | 89 | 1.1 |
| Protein (g) |  |  | 28 | 0.3 | 29 | 0.2 |
| Percentage of energy from total fat (\%) |  |  | 32.9 | 0.4 | 33.1 | 0.3 |
| Percentage of energy from saturated fat (\%) |  |  | 10.8 | 0.1 | 11.9 | 0.1 |
| Vitamin A (mcg RE) |  |  | 324 | 10.0 | 437 | 15.7 |
| Vitamin C (mg) |  |  | 22 | 1.0 | 27 | 1.3 |
| Calcium (mg) |  |  | 483 | 6.7 | 478 | 4.0 |
| Iron (mg) |  |  | 4.3 | 0.1 | 4.4 | 0.1 |
| Cholesterol (mg) |  |  | 58 | 1.2 | 65 | 0.9 |
| Sodium (mg) |  |  | 1,278 | 22.3 | 1,259 | 15.3 |
| Fiber (g/1,000 kcal) |  |  | 6 | 0.1 | na | na |
| Number of Schools |  |  | 145 |  | 398 |  |
| SECONDARY SCHOOLS ${ }^{\text {a }}$ |  |  |  |  |  |  |
| Food energy (calories) |  |  | 765 | 9.9 | 724 | 5.5 |
| Total fat (g) |  |  | 31 | 0.7 | 28 | 0.3 |
| Saturated fat (g) |  |  | 9 | 0.2 | 10 | 0.1 |
| Carbohydrate (g) |  |  | 96 | 1.3 | 91 | 0.9 |
| Protein (g) |  |  | 29 | 0.3 | 30 | 0.2 |
| Percentage of energy from total fat (\%) |  |  | 35.5 | 0.4 | 34.5 | 0.2 |
| Percentage of energy from saturated fat (\%) |  |  | 11.1 | 0.1 | 12.1 | 0.1 |
| Vitamin A (mcg RE) |  |  | 306 | 9.4 | 390 | 10.1 |
| Vitamin C (mg) |  |  | 26 | 1.1 | 29 | 0.8 |
| Calcium (mg) |  |  | 468 | 6.4 | 475 | 3.9 |
| Iron (mg) |  |  | 4.7 | 0.1 | 4.7 | 0.0 |
| Cholesterol (mg) |  |  | 63 | 1.0 | 68 | 1.0 |
| Sodium (mg) |  |  | 1,470 | 26.5 | 1,382 | 14.5 |
| Fiber (g/1,000 kcal) |  |  | 9 | 0.1 | na | Na |
| Number of Schools |  |  | 252 |  | 677 |  |

Sources: School Nutrition Dietary Assessment Study-IV, Menu Survey, SY 2009-2010 (tabulations prepared by Mathematica Policy Research, Inc., weighted to be representative of all public schools offering the NSLP); SNDA-III, Menu Survey, SY 2004-2005 (Gordon et al. 2007, Tables VIII.3, D-VI.5, F-VI.1), and SNDA-II, Menu Survey, SY 1998-1999 (Fox et al. 2001, Exhibit A.1).

SY = school year; SE = standard error; RE = Retinol equivalents; na = not available.
${ }^{\text {a }}$ Includes middle schools and high schools.
*Difference between SY 2009-2010 and SY 2004-2005 is significantly different from zero at the . 05 level.

TABLE 0.10

## PROPORTION OF SCHOOLS SERVING NSLP LUNCHES IN SY 2009-2010, SY 2004-2005, AND SY 19981999 THAT SATISFIED SMI NUTRIENT STANDARDS AND RELATED BENCHMARKS



Sources: School Nutrition Dietary Assessment Study-IV, Menu Survey, SY 2009-2010 (tabulations prepared by Mathematica Policy Research, Inc., weighted to be representative of all public schools offering the NSLP); SNDA-III, Menu Survey, SY 2004-2005 (Gordon et al. 2007, Table VIII.1), and SNDA-II, Menu Survey, SY 1998-1999 (Fox et al. 2001, Exhibits 3.5, 3.7 and A.4).

SY = school year; SE = standard error; SMI = School Meals Initiative for Healthy Children; REA $=$ Recommended Energy Allowance; RDA = Recommended Dietary Allowance.
${ }^{a}$ Includes middle schools and high schools.
*Difference between SY 2009-2010 and SY 2004-2005 is significantly different from zero at the . 05 level.

TABLE 0.11

## DISTRIBUTION OF FAT, CHOLESTEROL, AND SODIUM IN AVERAGE LOWEST-PERCENT SATURATED FAT LUNCHES OFFERED IN SY 2009-2010 AND SY 2004-2005 ELEMENTARY SCHOOLS

|  | Percentage of Schools |  |  |
| :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { SY 2009-2010 } \\ & \text { (SNDA-IV) } \end{aligned}$ | $\begin{aligned} & \text { SY 2004-2005 } \\ & \text { (SNDA-III) } \end{aligned}$ | $\begin{gathered} \text { Difference (SY } \\ \text { 2009-2010 - SY } \\ \text { 2004-2005) } \end{gathered}$ |
| Percentage of Energy from Total Fat |  |  |  |
| No more than 30\% |  | 79 |  |
| 30.1-34.0\% |  | 16 |  |
| $34.1-38.0 \%$ |  | 3 |  |
| More than 38.0\% |  | 2 |  |
| Percentage of Energy from Saturated Fat |  |  |  |
| Less than 10\% |  | 90 |  |
| 10.1-12.0\% |  | 10 |  |
| 12.1-14.0\% |  | 0 |  |
| More than 14.0\% |  | 0 |  |
| Percentage of Energy from Carbohydrate |  |  |  |
| Less than 45\% |  | 0 |  |
| $45-55 \%$ |  | 27 |  |
| More than 55\% |  | 73 |  |
| Cholesterol |  |  |  |
| Less than 100 mg |  | 100 |  |
| 100 mg or more |  | 0 |  |
| Sodium |  |  |  |
| 800 mg or less |  | 14 |  |
| $801-1,000 \mathrm{mg}$ |  | 33 |  |
| More than 1,000 mg |  | 53 |  |
| Number of Schools |  | 145 |  |

Sources: School Nutrition Dietary Assessment Study-IV, Menu Survey, SY 2009-2010. Tabulations prepared by Mathematica Policy Research, Inc. are weighted to be representative of all public schools offering the NSLP.

Note: Shaded rows represent SMI standards (fat and saturated fat only) or National Research Council recommendation (for cholesterol and sodium, one-third of recommendation for daily intake).

SY = school year.

