



*How to Use the NCCOR
Catalogue to Guide Multi-level
Research*

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State and National

Local and Community

School and Organizational

Individual and Household

BMI, physical activity,
and measures of healthy eating
Household food expenditures

School
policies/practices
related to nutrition and
PA

State laws related to
school-based nutrition and
physical activity

State level
policies
addressing the
built
environment

Availability and
accessibility of
physical activity
opportunities

Comprehensiveness
of school district
wellness policies

State level
policies and
legislation
around Safe
Routes to
School

Information on
healthy eating and
physical activity
opportunities from
key informant
interviews

State taxation
of beverages,
snack foods,
and
restaurant
food

Presence and
content of
vending
machines at
school

Frequency and
length of physical
education and
recess

Availability and
accessibility of healthy
food and beverages in
stores and restaurants

Marketing of
food/beverages at
school

Availability of various
foods/beverages in
the school
environment

Awareness and
implementation of
Alliance for a Healthier
Generation Guidelines

Characteristics of the built
environment that impact
on physical activity

National food
and beverage
television
advertising

Local zoning codes,
regulations, and
ordinances that can
impact on healthy
eating and physical
activity

Market-level
PSAs
related to
healthy
eating,
physical
activity, and
obesity

Marketing of
healthy/unhealthy
foods and beverages
in communities

State policies
related to
healthy eating
and physical
activity

bridging the gap

Research Informing Policies & Practices
for Healthy Youth

**Do state school-based
nutrition-related laws influence
the nutrition-related policies/
practices in U.S. schools and
student BMI?**

Step 1: Identify a system that has state nutrition-related laws

ogue of Surveillance Systems - Windows Internet Explorer

http://tools.nccor.org/css/

NCCOR Catalogue of Surveillance Systems

NCCOR
CATALOGUE OF SURVEILLANCE SYSTEMS

Surveillance Systems

Filter options [clear filter]

Search Text Contains

Level

- Individual (0)
- Household (0)
- School (1)
- Community (1)
- Macro/Policy (8)
- Other (0)

Scope

- Local (3)
- State (7)
- National (6)

Key Variables

Filtered: showing 8 of 77

System Name	Compare
Census of Agriculture (Agcensus)	<input type="checkbox"/>
Economic Census	<input type="checkbox"/>
Food Stamp Program State Rules Database	<input type="checkbox"/>
Gladson Nutrition Database	<input type="checkbox"/>
ImpacTeen: State Snack and Soda Tax Data	<input type="checkbox"/>
Physical Education and Recess State Policy Classification System (PERSPCS)	<input type="checkbox"/>
School Health Policies and Programs Study (SHPPS)	<input checked="" type="checkbox"/>
School Nutrition Environment State Policy Classification System (SNESPCS)	<input checked="" type="checkbox"/>


Select all systems

Compare 2 systems

- School Nutrition En...(SNESPCS)
- School Health Policie...(SHPPS)

Step 2: Compare the systems

Catalogue Home | Search the Catalogue | Other Sur

 **NCCOR**
CATALOGUE OF SURVEILLANCE SYSTEMS

« Comparing Surveillance Systems

	School Health Policies and Programs Study (SHPPS)	School Nutrition Environment State Policy Classification System (SNESPCS)
Level		
Individual		
Household		
School	✓	
Community		
Macro/Policy	✓	✓
Other		
Scope		
Local	✓	
State	✓	✓
National	✓	✓
Key Variable		
Weight related		
Diet related	✓	✓
Physical activity related	✓	
Geocode/Linkage	✓	✓
Age Groups		
Infants		
Preschool children		
School age children	✓	✓

Step 3: Review the scope of the system and its contents

The screenshot displays the NCCOR Catalogue of Surveillance Systems website. The page title is "School Nutrition Environment State Policy Classification System (SNESPCS)". The navigation menu includes "At A Glance", "Sampling", "Key Variables", "Data Access & Cost", "Geocode/Linkage", "Selected Publications", and "Resources". The "At A Glance" section is active, showing details about the SNESPCS system, including its website, purpose, target population, data collection timeline, sponsor, and a special note about a 2009 revision. A "Noteworthy Characteristics" box lists key features such as empirical assessment of laws, independent coding, and scoring based on alignment with national standards.

NCCOR
CATALOGUE OF SURVEILLANCE SYSTEMS

Catalogue Home | Search the Catalogue | Other Surveillance Resources | Catalogue Feedback

« School Nutrition Environment State Policy Classification System (SNESPCS)

At A Glance | Sampling | Key Variables | Data Access & Cost | Geocode/Linkage | Selected Publications | Resources

Website
<http://class.cancer.gov/>

Purpose
To collect state school nutrition environment related laws in the United States (US) and score them in comparison to national standards.

Target Population
All 50 states and the District of Columbia.

Conducted
Collected baseline data for year 2003 and thereafter annually through 2008. After 2008, data collected biannually.

Sponsor
National Cancer Institute, National Institutes of Health, US Department of Health and Human Services

Special Note(s)
In 2009, the 2003-2006 School Nutrition Environment State Policy Classification System (SNESPCS) was revised to reflect competitive food and beverage recommendations from the 2007 Institute of Medicine (IOM) report Nutrition Standards for Foods in Schools: Leading the Way toward Healthier Youth. As a result, the initial SNESPCS criteria and coding were changed for the 2003-2006 combined dataset.

Noteworthy Characteristics

- Empirical assessment of state administrative and statutory laws affecting school competitive foods (e.g., a la carte, vending machine, other venues), school meal requirements, food service director qualifications, food and beverage-related advertising and promotion, preferential pricing, and body mass index (BMI) screening and topics related to advertising/marketing and BMI.
- Data are independently coded.
- Includes additional coding for factors that may enhance or inhibit implementation of law.
- Laws coded by school level (elementary school, middle school, high school).
- Scoring based on degree of alignment with national nutrition standards (e.g., US Dietary Guidelines for Americans, Institute of Medicine reports, USDA National School Lunch Program).



« School Nutrition Environment State Policy Classification System (SNESPCS)

[At A Glance](#)

[Sampling](#)

[Key Variables](#)

[Data Access & Cost](#)

[Geocode/Linkage](#)

[Selected Publications](#)

[Resources](#)

Sample Design

Census of state laws.

Data representative to the state level, including the District of Columbia.

Source of Information

State statutory (legislative) and administrative (regulatory) laws obtained using Westlaw legal database.

Annual Reference Date

Data reflect laws/policies in effect as of December 31.

Sample Size

Data gathering did not involve sampling. Data for all 50 states and the District of Columbia are available.

Profile Last Modified : 12/01/2010



Key Variables Page

atalogue of Surveillance Systems

Jurisdiction

Name
State

Geocode/Linkage

Name
Federal Information Processing Standard (FIPS) code
State
Year

Other

Name
Statute citation

Content Areas

Name
Body mass index screening
Competitive foods: a la carte in cafeterias; vending machines; other venues, e.g., school stores
Coordinating or advisory council requirements
Food service director qualifications
Marketing: advertising and promotion restrictions
Nutrition education
Reimbursable school meals
School meal environment (e.g., meal scheduling time and length requirements)

- State FIPS (and alpha) codes to enable linkages at the state level
- Key nutrition-related policy variables of interest

**Next step: identify a system
that contains school-level
policy/practice data**

Step 4: Go back to the Catalogue home page

The screenshot displays the NCCOR Catalogue of Surveillance Systems interface. The header includes the NCCOR logo and navigation links: "Catalogue Home", "Search the Catalogue", "Other Surveillance Resources", and "Catalogue Feedback". The main heading is "Surveillance Systems".

Filter options [clear filter]

Search ⓘ
Text Contains

Level ⓘ

- Individual (1)
- Household (0)
- School (6)
- Community (0)
- Macro/Policy (1)
- Other (0)

Scope ⓘ

- Local (4)
- State (4)
- National (5)

Key Variables ⓘ

- Diet related (5)
- Physical activity related (4)

Filtered: showing 6 of 77

System Name	Compare
Fast Response Survey System (FRSS)	<input type="checkbox"/>
National Center for Educational Statistics Common Core of Data (NCES/CCD)	<input type="checkbox"/>
Private School Universe Survey/Private School Survey Series (PSS)	<input type="checkbox"/>
School Health Policies and Programs Study (SHPPS)	<input checked="" type="checkbox"/>
School Health Profiles	<input checked="" type="checkbox"/>
School Nutrition Dietary Assessment Study (SNDA)	<input checked="" type="checkbox"/>

Select all systems

Compare 3 systems X

- School Nutrition Dieta...(SNDA) X
- School Health Policie...(SHPPS) X
- School Health Profiles X

« Comparing Surveillance Systems

	X	X	X
	School Health Policies and Programs Study (SHPPS)	School Health Profiles	School Nutrition Dietary Assessment Study (SNDA)
Level			
Individual			✓
Household			
School	✓	✓	✓
Community			
Macro/Policy	✓		
Other			
Scope			
Local	✓	✓	
State	✓	✓	
National	✓		✓
Key Variable			
Weight related			✓
Diet related	✓	✓	✓
Physical activity related	✓	✓	✓
Geocode/Linkage	✓	✓	✓
Age Groups			
Infants			
Preschool children			
School age children	✓		✓
Teenagers/Adolescents	✓		✓
Adults		✓	✓
Racial/Ethnic Groups			
Asian/Pacific Islanders			
Blacks			
Hispanics			

SNDA has individual data

Importantly, it also has weight-related data

« School Nutrition Dietary Assessment Study (SNDA)

At A Glance

Sampling

Key Variables

Data Access & Cost

Geocode/Linkage

Selected Publications

Resources

Website

http://www.mathematica-mpr.com/nutrition/snada_IV.asp

Purpose

To collect data about the nutritional quality of meals offered, served, and consumed in public schools that participate in the National School Lunch Program (NSLP) and the School Breakfast Program (SBP) in the United States (US). The study also collects data about district and school policies and key characteristics of program operations.

Target Population

National samples of school food authorities (SFAs; generally analogous to school districts) and schools in the 48 contiguous states. To date, alternating waves of the study also have included a random sample of students in grades 1-12 and their parents.

Conducted

Began 1991-1992 and conducted periodically since then. SNDA-I collected data for schools 1991-1992 and included student-level data. SNDA-II collected data for school year 1998-1999. SNDA-III collected data for school year 2004-2005 and included student-level data. SNDA-IV completed data collection for school year 2009-2010. Public-use data are expected to be available in early 2012.

Sponsor

Food and Nutrition Service, US Department of Agriculture

Noteworthy Characteristics

- Provides national data on nutritional quality of meals offered to, selected by, and, when student-level data are collected, consumed by children who participate in the NSLP and SBP. Data are collected at district, school, and sometimes, student levels.
- Describes district and school food environments and policies.
- Evaluates whether the meals conform to the Dietary Guidelines for Americans.
- Student-level data, when collected, includes 24-hour dietary recalls, which can be used to assess the adequacy of children's usual dietary intakes, and measured height and weight.

« School Nutrition Dietary Assessment Study (SNDA)

[At A Glance](#)[Sampling](#)[Key Variables](#)[Data Access & Cost](#)[Geocode/Linkage](#)[Selected Public](#)

Demographic

Name	Methods of Assessment
Age	Interview/questionnaire (parent; student)
Child resides/does not reside with mother	Interview/questionnaire (parent; student)
Eligibility for school nutrition program	Interview/questionnaire (food service manager; school principal)
Family income	Interview/questionnaire (parent)
Grade level	Interview/questionnaire (parent)
Household size	Interview/questionnaire (parent; student)
Mother's employment outside home	Interview/questionnaire (parent)
Race/ethnicity	Interview/questionnaire (parent)
Sex	Interview/questionnaire (parent)
Socioeconomic status	Interview/questionnaire (parent)
↑ Collapse	

Diet-Related

Name	Methods of Assessment
District food policies	Interview/questionnaire (School Food Authority [SFA] director)
Family eating habits	Interview/questionnaire (parent)
Foods consumed during school day, times, and portion sizes	24-hour recall (student); interview/questionnaire (parent)
Foods other than USDA school meals, their sources (e.g., a	Interview/questionnaire (food service manager; school

Foods consumed during school day, times, and portion sizes	24-hour recall (student); interview/questionnaire (parent)
Foods other than USDA school meals, their sources (e.g., a la carte foods, vending machines, fundraisers), and frequency of consumption	Interview/questionnaire (food service manager; school principal); a la carte checklist
National School Lunch Program and School Breakfast Program participation rates	Interview/questionnaire (SFA director)
Nutritional quality of meals offered to students in public schools, as compared with the Dietary Guidelines for Americans, School Meals Initiative for Healthy Children (SMI) standards, and other established benchmarks (calculated).	Interview/questionnaire (food service manager); 1-week menu analysis
Parent perceptions of the USDA meal program	Interview/questionnaire (parent)
Prices charged for full- and reduced-price school meals	Interview/questionnaire (food service manager)
Regular eating habits	Interview (adolescent student)
School food policies (e.g., schedules, nutrition education)	Interview/questionnaire (school principal)
School menu planning practices	Interview/questionnaire (food service manager; SFA director)
Student perceptions of the USDA meal program	Interview/questionnaire (student)
Types, servings, and portion sizes of food served as part of reimbursable program food	Interview/questionnaire (food service manager); 1-week menu analysis)
Use of foods from commercial vendors	Interview/questionnaire (food service manager)
↑ Collapse	

Physical Activity-Related

Name	Methods of Assessment
Physical activities	Interview/questionnaire (adolescent student; parent)
Television and computer use	Interview/questionnaire (adolescent student)

Weight-Related

Use of foods from commercial vendors Interview/questionnaire (food service manager)

↑ Collapse

Physical Activity-Related

Name	Methods of Assessment
Physical activities	Interview/questionnaire (adolescent student; parent)
Television and computer use	Interview/questionnaire (adolescent student)

Weight-Related

Name	Methods of Assessment
Height	Measured
Weight	Measured

Geocode/Linkage

Name	Methods of Assessment
City or metropolitan statistical areas	Interview/questionnaire
Region	Interview/questionnaire

Other

Name	Methods of Assessment
School enrollment and nutrition program participation rates	Interview/questionnaire (school staff; district staff)

Profile Last Modified : 12/01/2010

Key: Measured
height/weight

Geocodes:
City/MSA
Region

Question: Can I link any other data to the selected data sources?

- I am interested in trying to add additional contextual data to the selected data sources...where do I start?
 - Key → linkage (geocode) variables
 - State FIPS, city, MSA



NCCOR CATALOGUE OF SURVEILLANCE SYSTEMS

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Surveillance Systems

Filter options

[\[clear filter\]](#)

Search

Text Contains

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Individual (1)

Household (0)

School (6)

Community (0)

Macro/Policy (1)

Other (0)

Scope

Local (4)

Filtered: showing 6 of 77

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School Nutrition Dietary Assessment Study (SNDA)	<input type="checkbox"/>

[Select all systems](#)

Compare 1 system



National Center fo...(NCES/CCD)





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CATALOGUE OF SURVEILLANCE SYSTEMS

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« National Center for Educational Statistics Common Core of Data (NCES/CCD)

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Geocode Variable(s)

State, core-based statistical area, metropolitan statistical area, county, district, school address, zip code, and latitude/longitude.

Existing Linkages

National Center for Education Statistics-Common Core of Data (NCES-CCD) data on school environments have been linked to Child Development Supplement of the Panel Study of Income Dynamics (PSID) data on socio-demographic, psychological, and economic aspects of childhood using school district.

NCES-CCD data on racial composition have been linked to census geographic data using school district.

Geocode/Linkage

Name	Methods of Assessment
Address and zip code plus 4	Interview/questionnaire (district and school)
Congressional district code	Interview/questionnaire (school)
County	Interview/questionnaire (school)
Federal Information Processing Standard (FIPS) Codes	Interview/questionnaire (district and school)
↓ Show 5 more	

Other

Name	Methods of Assessment
District and school racial/ethnic and sex composition	Interview/questionnaire (district and school)
Drop-out/completion rates (high schools only)	Interview/questionnaire (district)
Finance data	Interview/questionnaire (district)
Information on number of students	Interview/questionnaire (district and school)
Local, state, and federal revenues and expenditures and teacher compensation	Interview/questionnaire (district)
Staff counts (by job description)	Interview/questionnaire (school)
Student counts by grade	Interview/questionnaire (school)
Title I eligibility status	Interview/questionnaire (school)
Total full-time equivalent (FTE) teachers	Interview/questionnaire (district)
Type (e.g., special education, alternative, charter)	Interview/questionnaire (school)
↑ Collapse	

Special Note(s)

Special note: The National Center for Education Statistics (NCES) does not interview the schools or districts; data are submitted to

Review: Selected Data Sources

- State policy database:
 - NCI School-based Nutrition Environment-related State Policy Classification System (SNESPCS)
- School policy/practice and BMI data source:
 - USDA School Nutrition Dietary Assessment survey
- Other contextual data aggregated to the State or MSA levels:
 - NCES Common Core of Data

Database Linkages

- Geocodes
 - SNESECPS: state FIPS
 - SNDA: City/MSA
 - Can map city/msa to state
 - NCES CCD: state or MSA

Summary: What questions might be explored with these data?

State

- What are the state competitive food and beverage requirements?

School

- What types of foods are sold/served in competitive venues in schools?
- Where are the foods sold, when, etc.?

Individual

- Does student BMI vary based on the state laws and school policies/ practices?

Context

- Controls at the school/individual level from SNDA
- Controls at the state/MSA level from NCES CCD
- Could also include state obesity rates

Next steps: the good news....

- What used to be the hard part of locating the data sources has now been taken care of thanks to the Surveillance Catalogue
- However, the Surveillance Catalogue is only the starting point for your research

....the bad news....

- Now the hard part begins!
- Use the Surveillance Catalogue to link to the respective data sources of interest
 - E.g., SNESPCS, SNDA, NCES
- If you are not familiar with conducting multi-level analysis or linking datasets, consider consulting with a statistician with the appropriate expertise

Good luck...and have fun!

