

High School Student Satisfaction and Non-Participation Survey Guide

Internal Benchmarking for School Nutrition Programs

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National Food Service Management Institute The University of Mississippi

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National Food Service Management Institute The University of Mississippi

Building the Future Through Child Nutrition

The National Food Service Management Institute was authorized by Congress in 1989 and established in 1990 at The University of Mississippi in Oxford and is operated in collaboration with The University of Southern Mississippi in Hattiesburg. The Institute operates under a grant agreement with the United States Department of Agriculture, Food and Nutrition Service.

Purpose

The purpose of the National Food Service Management Institute is to improve the operation of child nutrition programs through research, education and training, and information dissemination.

Mission

The mission of the National Food Service Management Institute is to provide information and services that promote the continuous improvement of child nutrition programs.

Vision

The vision of the National Food Service Management Institute is to be the leader in providing education, research, and resources to promote excellence in child nutrition programs.

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Introduction

The National Food Service Management Institute, Applied Research Division (NFSMI, ARD) conducted a series of multifaceted studies to address both high school student satisfaction and declining participation in the National School Lunch Program (NSLP). Two high school foodservice surveys were developed as a result of these studies, namely *The School Lunch Experience Survey* (Asperin, Nettles, & Carr, 2009) and *The Non-Participation Survey* (Asperin, Nettles, & Carr, 2008). An expert panel of school nutrition (SN) directors assisted in pilot testing the surveys and in developing this resource. The *High School Satisfaction and Non-Participation Survey Guide* is designed to provide step-by-step instructions for using the surveys. This resource also includes research-based information from other NFSMI, ARD resources on customer service (Meyer, Conklin, & Carr, 1997) and continuous quality improvement (Lambert, Carr, & Hubbard, 2006).

This resource contains six other sections to guide the SN director and/or manager through the survey process:

- Planning for Survey Administration provides the SN director and/or manager guidance for choosing members of the survey team, timing of surveys, and frequency of survey administration.
- Survey Options describes The School Lunch Experience Survey and The Non-Participation Survey, and provides guidance for deciding which survey to utilize and how to select participants.
- Administering the Survey contains checklists for the SN director and/or survey team to refer to as they go through the survey process from pre-planning to the day after the survey is completed.
- Tabulating and Interpreting Results provides step-by-step instructions for using the Microsoft Excel templates.
- Developing a Customer Service Action Plan Using the Continuous Quality Improvement Process provides instructions for utilizing survey results to develop improvement plans.
- Appendices include copies of the surveys, parental consent templates, student assent statements, and memos to principals and/or teachers for surveys.

Focus groups with high school students have shown that students who eat school lunch frequently have different concerns from students who eat lunch two or less times a week. Measuring satisfaction focuses on the concerns of the first group, while measuring factors that influence non-participation addresses the concerns of the second group. The surveys outlined in this guide are research-based tools generalizable for use with the high school population (grades 9 through 12), regardless of district size. The surveys were designed for use by SN directors and/or managers as benchmarking and needs assessment tools for addressing student satisfaction and non-participation issues within the SN program. It is important for SN directors, managers, and staff to understand the factors that drive high school student satisfaction and influence declining participation in the NSLP, because these affect the overall success of the program.

Use of the Web-based resource and implementation of the survey(s) will aid SN professionals in establishing performance benchmarks. Valid and reliable data guide decision-making and empower the SN director, manager, and staff to address customer service issues in the effort to increase student satisfaction and participation. Although planning and administering the survey(s) may take considerable time, effort, and coordination, results provide a launching point for creating continuous improvement plans that will help SN directors, managers, and staff provide better services for high school students.

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Planning for Survey Administration

Many school districts and/or schools have policies on conducting surveys with the student population. Some districts may require approval from the school board and/or parental consent before surveying students. It may take several months to be placed on the school board agenda and to obtain parental consent, so planning ahead is critical. In addition, it is important to check with the state agency overseeing SN programs for policies regarding surveys.

Team Approach to Survey Administration

To administer the customer service survey(s) successfully, it would be advantageous for the SN director to obtain support from the district and school community. Listed below are key individuals or groups that the SN director can coordinate with in planning and administering the survey(s). The SN director may choose only the appropriate resources depending on district structure and need.

Superintendent

It is recommended that the superintendent be included in the communication and approval process for surveying students. This is particularly important when district mandated research protocols are in place (e.g., parental consent, student assent).

School Administrators

It may be helpful to attend an administrative staff meeting to explain the survey process and the value of conducting a customer service survey. Work with the school administration to determine the process for contacting survey participants. A parental consent form is available, if needed (Appendices A-2 and B-2).

Principal

Involve the high school principal(s) in planning survey administration. He/She can be very helpful in the discussion on where and when to conduct the survey. The principal will be the key in gaining teacher support to assist with the survey process.

To administer the customer service survey(s) successfully, it would be advantageous for the SN director to obtain support from the district and school community.

Teachers

Involve teachers in coordinating the survey process and meet with them to answer any questions or concerns. Teachers can provide a controlled environment in which students can take the survey(s). Schedule the survey(s) far enough in advance to allow teachers to incorporate this activity into their plans for classroom instruction.

School Nutrition Staff

Share plans for conducting the survey with the SN manager(s) and staff. It is important to let staff know that the survey is not meant to be punitive or critical, but that it is intended to provide a better understanding of what their customers want. Survey results give staff specific areas to focus on for improved customer service.

School Nutrition Advisory Council or Student Council

Students could assist with distributing and collecting surveys and making announcements to other students about the importance of the survey. They could be great peer-to-peer marketing tools for encouraging other students to participate in the survey.

Parents

In some cases, districts require parental consent every time students are asked to complete a survey. It is important that parents understand why the survey is being conducted and why their child's participation is valuable to program improvement.

Obtaining the support of the following individuals/groups may also be beneficial:

- School Board members
- District or school technology specialist
- Point-of-Sale (POS) provider and/or technical assistance team
- Wellness or health coordinator, including school nurses
- District or school evaluations coordinator (for assistance in survey distribution, formatting, and data encoding)

Timing of Surveys

The survey(s) will take approximately 30 minutes. This includes time for giving instructions, distributing the survey, and completing the survey. Consider using the cafeteria, library, or a classroom so that the students have tables or desks on which to take the survey. Considerations when scheduling survey administration are provided on the next page.

Beginning to Mid-Point of the School Year

SN directors recommend that the school year be in session for a minimum of one month (or at least one menu cycle) before a survey is conducted. Surveys conducted during the early part of the school year tend to yield higher survey scores because the program is still relatively new and students have not tired of the menu items. However, higher survey results may not be as beneficial in targeting areas that need improvement.

End of the School Year

Scheduling survey administration at this time may be difficult due to standardized academic year-end testing. In addition, lower scores may be observed because students tend to be tired of menu items. However, this will help in identifying specific areas for improvement.

Days of the Week

The best days of the week to conduct the survey are Tuesday, Wednesday, and Thursday. Carefully check the school calendar to ensure that scheduled field trips, standardized testing, special school activities, and themed days in the cafeteria (e.g., holidays, Halloween, Valentines, etc.) do not coincide with the survey schedule. It is suggested that the date of the survey be placed on the school calendar.

Time of the Day

Yield to principal's and/or teachers' decision for most appropriate time to conduct the survey.

Number of High Schools

If the survey is being conducted at more than one high school in the district, the survey should be conducted as close as possible to the same day and time in each school. This will allow appropriate comparisons to be made between schools.

Frequency of Survey Administration

It is recommended that the survey(s) be done only once during the year. Results of the first survey(s) become the SN program's baseline for internal benchmarking and the foundation for an improvement plan. Once an action plan for improvement is implemented, it takes time for changes to take effect and manifest results. If follow-up surveys will be conducted, it is suggested that these be repeated at the same time of the year. This increases the reliability of comparisons between established benchmarks and new data.

Points to consider when scheduling survey administration:

- Time period in the school year
- Days of the week
- Time of the day
- Number of high schools

Once an action plan for improvement is implemented, it takes time for changes to take effect and manifest results.

Survey Options

Both *The School Lunch Experience Survey* and *The Non-Participation Survey* are geared towards improving the SN program. However, using the appropriate survey is key in measuring operational performance and implementing action plans to achieve desired results. In some cases, the surveys may be administered simultaneously depending on the SN director's desired outcome.

Using the appropriate survey is key in measuring operational performance and implementing action plans to achieve desired results

Description of Surveys

Survey	The Non-Participation Survey: Understanding Why High School Students Do Not Eat School Lunches	The School Lunch Experience Survey: Making your opinions known
Purpose	Identify reasons why high school students choose not to eat school meals provided by SN programs operating within the guidelines of the NSLP.	Provide SN directors and managers a benchmark of student perceptions and satisfaction of SN programs operating within the guidelines of the NSLP.
When to use the survey	 SN program has very low rate of participation at the high school level Number of free/reduced price eligible students is greater than average daily participation 	 SN program already has a high rate of participation at the high school level SN program has low potential for growth (e.g., the cafeteria is not equipped to support a large increase in participation, but would like to keep students who already participate) SN program has a large percentage of paying students
Applications	 Results can help SN directors to Focus improvement efforts on key factors that can influence the student's decision to start eating school meals more frequently; and Prioritize which factors to address based on student feedback, as well as their ability to change these at the local level. 	 Benchmarking allows SN directors to Establish minimum performance and set targets for factors that need to be improved; Compare SN programs within a school district (if the district has two or more high schools); and Measure changes in a single program if the survey is conducted periodically.

Both surveys are divided into four general sections as described in the table below. Although there are commonalities between the two surveys, the questions are not identical. The statements included have been derived statistically and are found to measure the students' perceptions regarding the SN program and their reasons for participating or not participating in the program.

Survey	The Non-Participation Survey: Understanding Why High School Students Do Not Eat School Lunches	The School Lunch Experience Survey: Making your opinions known
Section I	Reasons for not eating school lunches	Your lunch experience
	Provides specific reasons why students do not eat school lunches offered by the SN program	Provides student perceptions of specific program characteristics that contribute to student satisfaction
	Students are asked to use the phrase "My reason for not eating school lunches is that" before each of 27 statements about SN program characteristics.	Students are asked to use the phrase "When I eat school lunches" before each of 24 statements about SN program characteristics. The last three statements offer the SN director an overall evaluation of food quality, service, and student dining experience.
	Students are then instructed to indicate their using a 5-point scale, ranging from 5 (strongly	,
Section II	Deciding to eat school lunches	Top reasons for eating school lunches
	Provides a quick snapshot of key factors that will influence the student's decision to start eating school lunches more frequently	Provides a quick snapshot of key factors that influence the student's decision to eat school lunches frequently
	Students are asked to use the phrase, "I would be more likely to eat school lunches if" before each of 13 statements, rating their level of agreement by using the scale 5 (strongly agree) to 1 (strongly disagree).	Students are asked to choose the top five (out of 14) statements as their reasons for eating school lunch.
Section III	Tell us a	bout you
	Demographic questions on grade level and ge information to further understand trends with A question on frequency of participation per for the sample.	hin the subgroups of students.
Section IV (Optional)	Individual programs may choose to include a demographic questions, such as lunch period, than one high school conducting the survey)	, high school campus (for districts with more

Selecting Participants

The validity and usefulness of research findings greatly rely on the importance of sampling the appropriate group of students. To understand the reasons behind satisfaction and non-participation at the high school level, directors must first be able to identify the correct sample. It is recommended that the surveys be distributed as evenly as possible across grade levels.

The Non-Participation Survey

Because *The Non-Participation Survey* is designed to explore reasons why high school students do not choose to eat school lunches, the appropriate sample should be chosen from students who eat school lunches two or less times per week (or eight or less times a month). The table below will guide SN directors in determining the appropriate number of surveys to distribute. A second round of surveys should be distributed if the number of completed surveys is less than the required number indicated on the table.

The validity and usefulness of research findings greatly rely on the importance of sampling the appropriate group of students.

The Non-Partic	cipation Survey	
Number of students who eat two or less times per week	Number of students to select for survey	Number of completed surveys required
50	50	40
100	90	80
150	120	110
200	145	130
250	165	150
300	190	170
350	205	185
400	220	200
450	230	210
500	240	220
750	280	255
1000	310	280
1250	325	295
1500	335	305
1750	360	325
Over 2000	365	330

SN directors have suggested the following methods for selecting participants:

- Use the point-of-sale (POS) system to electronically select a pool of students who eat school lunches two or less times per week. Contact the POS provider with assistance in generating a list of students who meet the criteria.
- In the absence of an automated POS system, check meal and/or free and reduced price eligibility rosters to identify the students who have eaten school lunch infrequently over the span of one month.
- Check that students chosen for the survey are not on the dropouts or frequent absentee lists.

The Non-Participation Survey

The appropriate sample should be chosen from students who eat school lunches two or less times per week (or eight or less times a month).

The School Lunch Experience Survey

The appropriate sample for *The School Lunch Experience Survey* is composed of students who eat school lunches an average of three or more times per week. Because the rate at which students complete and return the surveys has been shown to be lower for this survey, a larger number of distributed surveys is required for the information to be reliable. The table below will guide SN directors in determining the appropriate number of surveys to distribute. A second round of surveys should be distributed if the number of completed surveys is less than the required number indicated on the table.

The School Lunch Experience Survey

The appropriate sample should be chosen from students who eat school lunches three or more times per week.

The School Lunch I		
Average daily participation at SN site	Number of surveys to be distributed	Number of completed surveys required
50	50	40
100	100	80
150	140	110
200	165	130
250	190	150
300	215	170
350	230	185
400	250	200
450	265	210
500	275	220
750	320	255
1000	350	280
1250	370	295
1500	380	305
1750	405	325
2000	415	330
2500	420	335
3000	425	340
Over 3000	440	352

The following methods for recruiting respondents have been suggested by SN directors:

- Use the POS to generate a list of students who eat school meals at least three times a week.
- Use the POS to electronically select a meal period with the highest percentage of frequent eaters. Invite students who belong to these meal periods to participate in the survey.
- Work with student leaders (e.g., Student Council, Leadership Council, presidents and vice presidents of student organizations) in distributing and administering the surveys.
- Work with teachers to administer the survey in their classes (e.g., health, nutrition).
- Work with school administrators to allow students to complete the survey during study hall, assembly, or homeroom.
- Work with team coaches to set aside time during practice to complete the survey. Market the importance of good nutrition for athletes.
- Ask the librarian to place a stack of surveys at the library check-out desk and to make a drop box available for students to submit completed surveys.
- Consider the possibility of combining the survey with the school satisfaction survey packet that students and/or parents receive at the end of the school year. Support from school administrators is vital for this option.

Administering the Survey

Once the appropriate survey has been chosen and approval from the school board or district administration has been obtained, the SN director must plan accordingly. This section provides timelines to guide the SN director in administering the survey.

Pre-Planning

- About two months or so before survey administration, obtain the required approvals (superintendent, principal, school board), as necessary.
- Ensure that all necessary documentation is in order before administering the survey.
- Contact and organize your survey team. This is particularly important for larger districts that require coordination between multiple high schools.

One Month Prior to Conducting the Survey

- Decide how the student sample will be selected. For The Non-Participation Survey, generate a list of high school students who do not eat school lunches frequently.
- Determine how the survey will be conducted and which individuals will be involved (e.g., teachers, technical support, POS provider). The following are some examples:
 - In-classroom pen and paper method;
 - Take home pen and paper method;
 - Web survey through district's Web site or other internet survey provider;
 - Internet-based survey via student e-mails; and
 - Online survey through POS provider's software.
- Determine if translations of the survey or parental consent forms are needed for high schools with multilingual student populations.
- Determine if any assistance for high school students with special needs have to be arranged to assist in survey completion.
- Work with appropriate school administrators to schedule the survey and to identify a venue.
- Inform principals and/or teachers of the upcoming survey (Appendices A-4 and B-4).
- Send consent forms to parents (Appendices A-2 and B-2), if required by district.

- Inform high school students that you will be conducting a survey and would appreciate their feedback.
 - This can be done as part of daily announcements, in a newsletter, direct mail, or on a monthly menu.
 - It is vital that students be informed of the important role they play in improving their SN program.
- Determine what token of appreciation you are going to provide the teachers and students involved in the survey process. For example, these could be personal "Thank You" notes, recognition in the school newsletter, or certificates of appreciation.

Two Weeks Prior to Conducting the Survey

- Remind students and teachers of the upcoming survey.
- Remind parents of the deadline for submitting parental consent forms, if applicable.
- Meet with the SN manager, teacher, or other school staff who will be administering the survey. Go over procedures for the survey, and provide clarifications for any questions and concerns.
- If using an alternative method of data collection, such as an online survey, follow-up with the service provider to ensure that it will be ready on schedule.

One Week Prior to Conducting the Survey

- If the paper and pencil method will be used, prepare a survey packet for each high school participating in the survey. Each packet should contain the following:
 - Appropriate number of surveys. Make sure that surveys are coded for each school when doing a multi-school survey. This may be done by using different colored sheets for each school, stamping the school name or identifying seal/logo in the upper right hand corner, or numbering the surveys and keeping a log of the survey numbers that are distributed to each school.
 - Copy of instructions for school administrator and/or teacher(s) who will administer the survey.
 - Student Assent (Appendices A-3 and B-3) statement to be read to students prior to survey completion.
 Providing this information ahead will allow school administrators and/or teachers to contact you should they have questions.

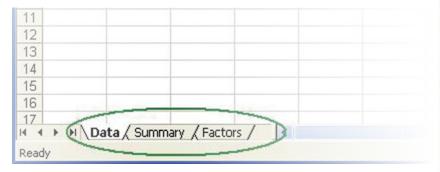
- If alternative methods of data collection will be used, such as an online survey, conduct a small test of the method to ensure that the tool is capturing data correctly.
- Check that the student assent statement is included in the survey tool if it will not be proctored by a school administrator/ teacher.
- Distribute the surveys to each high school (i.e., survey packets, links to Web-based survey, and log-in information, if necessary).

Day After the Survey is Completed

- Follow-up to ensure that all school administrators and/or teachers have returned completed surveys. For various reasons, some may not be able to conduct the survey on the day scheduled.
- Showing appreciation goes a long way toward support and participation. Thank principals, teachers, students, and all groups that helped with the survey process.

Tabulating and Interpreting Results

NFSMI, ARD has developed easy-to-use Microsoft Excel templates that will enable SN directors to tabulate and analyze student responses. This section presents instructions for tabulating and interpreting the results of the survey(s). Both templates have three worksheets separated by tabs at the bottom of the screen.



- Data (stores student responses)
- Summary (tabulates averages and frequencies of responses)
- Factors (displays factor and item averages)

Data Worksheet: Entering Student Responses

Step 1

Download appropriate template from the NFSMI Web site (http://www.nfsmi.org)

- For The Non-Participation Survey template, download the Microsoft Excel file "Non-Participation Survey Results".
- For *The School Lunch Experience Survey* template, download the Microsoft Excel file "School Lunch Experience Survey Results".

Step 2

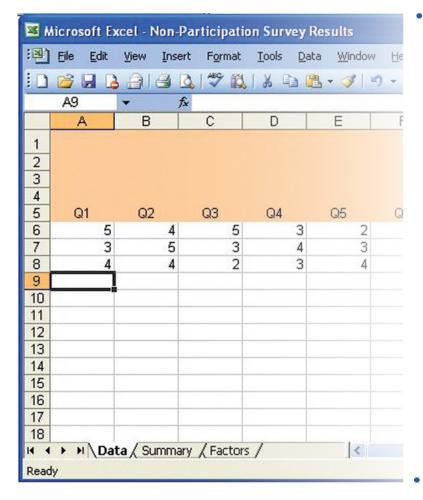
Open appropriate Microsoft Excel file and click on the Data tab

Step 3

Enter student responses

The Non-Participation Survey Data

Keep in mind that the purpose of this survey was to discover why students in your program chose not to eat school meals. Thus, these results should reflect only the answers of students who eat at your cafeteria two or less times a week. Before preparing to input data, divide all surveys into two groups based on responses for Section III, Question 2. Input responses only from students who indicated that they are an average of "Two or less" school lunches a week.



- P Each row represents one student and each column represents a question on the survey.
- To enter data for each student, work from left to right.
- To enter data for multiple students, work from top to bottom.
- Columns A to AA correspond to Section I (Q1-Q27).
- Columns AB to AN correspond to Section II (Q1-Q13).
- Columns AO and AP correspond to Section III (Grade and Gender).

Starting on row six, enter student responses by using the following scale for Sections I and II

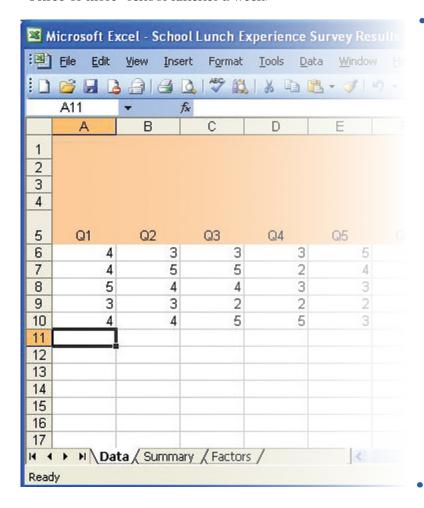
5=Strongly Agree, 4=Agree, 3=Neutral, 2=Disagree, 1=Strongly Disagree, NR=No response

Column AO corresponds to the student's grade level 1=9th grade, 2=10th grade, 3=11th grade, 4=12th grade

Column AP corresponds to the student's gender 1=Male, 2=Female

The School Lunch Experience Survey Data

Keep in mind that the objective of this survey is to measure the perceptions and satisfaction of students who eat school lunches frequently. Thus, these results should reflect only the answers of students who eat at your cafeteria three or more times a week. Before preparing to input data, divide all surveys into two groups based on responses for Section III, Question 2. Input responses only from students who indicated that they are an average of "Three or more" school lunches a week.



- Each row represents one student and each column represents a question on the survey.
- To enter data for each student, work from left to right.
- To enter data for multiple students, work from top to bottom.
- Columns A to X correspond to Section I (Q1-Q24).
- Columns Y to AL correspond to Section II (Choices 1-14).
- Columns AM to AN correspond to Section III (Grade and Gender).

Starting on row six, enter student responses by using the following scale for Section I

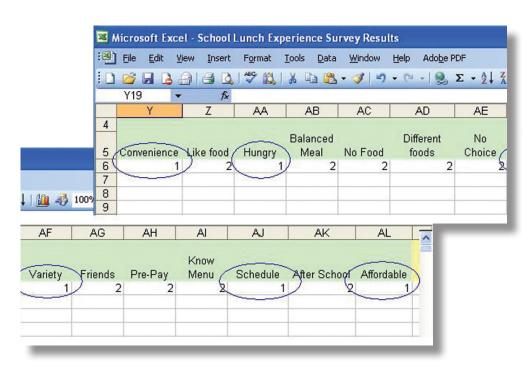
5=Strongly Agree, 4=Agree, 3=Neutral, 2=Disagree, 1=Strongly Disagree, NR=No response

Columns Y to AL corresponds to the 14 reasons why high school students eat school lunches

1= Yes (checked), 2= No (not checked)

Example

A student chooses the following as her reasons for eating school lunches: "It's convenient", "I am hungry", "I like the variety of menu items", "It fits my schedule", and "It's affordable". These items should have a 1 and the rest of the columns should have a 2, as shown below.



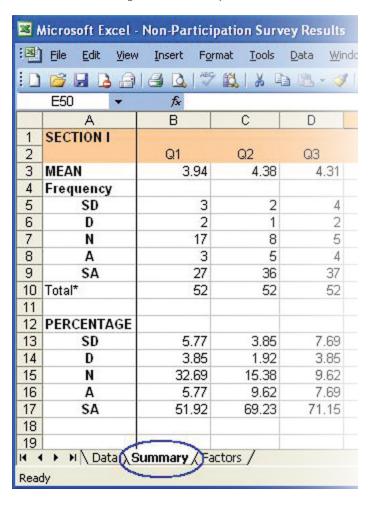
Column AM corresponds to the student's grade level 1=9th grade, 2=10th grade, 3=11th grade, 4=12th grade

Column AN corresponds to the student's gender 1=Male, 2=Female

Summary Worksheet: Interpreting the Data

After entering all student responses on the Data worksheet, the SN director can click on the "Summary" tab to see means (averages), frequencies, and percentages for each question on the survey. The mean is the average score for all of the students who answered that item. Frequencies show how many students selected each possible option for a given question (e.g., for gender, frequencies will show how many students responded "male" and how many responded "female"). The same information is also provided as percentages. Formulas have been imbedded in the worksheets so that these statistics are calculated as data is entered. The following examples illustrate how the Summary worksheet can be interpreted.

The Non-Participation Survey Results



- Rows 1 to 17 display the means, frequencies, and percentages for all questions in Section I.
- Rows 20 to 36 display the means, frequencies, and percentages for all questions in Section II.
- Rows 39 to 51 display the frequencies and percentages for both questions in Section III.
- Totals only reflect the number of valid responses per question. These do not reflect students who left the questions blank.

Example Section I

- In this section, students are asked to respond by using the phrase "My reason for not eating school lunches is that..." before each of 27 statements about SN program attributes.
- Keep in mind that the purpose of this section was to discover
 why students in your program chose not to eat school meals.
 Because of this, most of the items were written in the negative
 so that it was easier for the students to respond to the
 questions.
- The statement for Q1 reads, "The food does not taste good." According to the results, 27 students (51.92%) strongly agree that they do not eat school lunches because the food does not taste good and only 3 (5.77%) students say that this is not a primary reason why they do not eat school lunch.

• Given the average rating as a 3.94 for

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IS	Λ.	В	C	D
1	SECTION I		- 13.1	
2	r	Q1	Q2	Q3
3	MEAN	3.94	4.38	4.31
4	Frequency			
5	SD	3	2	4
6	D	2	1	2
7	N	17	8	2 5
8	Α	3	5	4
9	SA	27	36	37
10	Total*	52	52	52
11				
12	PERCENTAGE	ALCO SECTION		
13	SD	5.77	3.85	7.69
14	D	3.85	1.92	3.85
15	N	32.69	15.38	9.62
16	Α	5.77	9.62	7.69
17	SA	51.92	69.23	71.15
18				

Q1, the SN director can conclude that in general, students who do not eat school lunches will most likely perceive that food does not taste good and will rate this question a 4 (Agree) out of 5.

- Looking at the means for Q1, Q2, and Q3, the SN director can assume that Q2, "I prefer to eat what I bring from home" and Q3, "The amount of food is inadequate" are stronger reasons for students who choose not to eat school lunches. However, it may be advantageous for the SN director to ask students if the taste of the food and the serving portions are reasons why they prefer to eat what they bring from home.
- SN directors have suggested that scores of 3.5 and above in this section should be given the highest priority in determining areas of improvement.

The Non-participation Survey, Section I

SN directors have suggested that scores of 3.5 and above in this section should be given the highest priority in determining areas of improvement.

Section II

- In this section, students are asked to use the phrase, "I would be more likely to eat school lunches if..." before each of 13 statements.
- The statement for Q1 reads, "The overall quality (taste, appearance, temperature) of the food served were better."

19,				
20	SECTION II			
21	1	Q1	Q2	Q3]
22	MEAN	3.94	4.38	4.31
22 23	Frequency			
24	SD	8	1]	9
25	D	4	3	4
28	N	(24)	5	7
27	Α	(8)	11	22
28 29 30	SA	(8)	32	9
29	Total*	52	52	51
31	PERCENTAGE			
32	SD	15.38	1.92	17.65
33	D	7.69	5.77	7.84
34	N	46 15	9.62	13.73
35	Α	15.38	21.15	43.14
38	SA	15.38	61.54	17.65
37				

- Based on the results, 24 students neither agreed nor disagreed with the statement. The SN director can conclude that among the 52 students who answered, only 16 (30.77%) would be inclined to eat school lunches more frequently if the food quality improved.
- Looking at the means for Q1, Q2, and Q3, the SN director can assume that Q2, "There were more variety in the menu from day to day" and Q3, "There were more healthy options available" have higher scores than Q1. Addressing Q2 and Q3 will most likely have a greater impact on the students' decision to start eating school lunch more frequently.
- With a vast majority of students agreeing or strongly agreeing with Q2 (82.69%) and Q3 (60.79%), a review of the menu is recommended. Revisions to the menu that include greater variety from day to day and more healthy options can increase student participation.

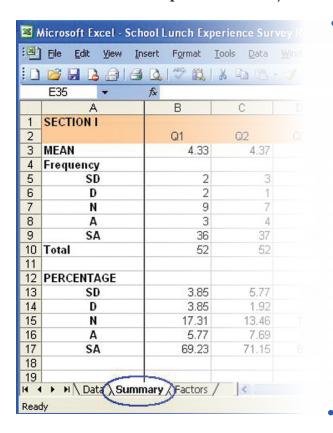
Section III

- This section will assist the SN director in determining if the diversity of the students sampled was adequate.
- Based on the table, the majority of the students sampled (42%) were seniors and only 10% accounted for freshmen. An unbalanced sample such as this may skew the data and produce results that do not reflect the average evaluations of students who do not eat school lunches.

39	SECTION III	SECTI	ON III
40		Frequency	Percentage
41	GRADE		
42	9	5	10.00
43	10	12	24.00
44	11	12	24.00
45	12	21	(42.00)
46	Total*	50	U/80. 14 (
47			
48/	GENDER		- 1
49	Male	24	48.98
50	Female	25	51.02
51	Total*	49	

- The table shows that there is a fairly even split between males
 - (24) and females (25). This is critical in minimizing bias.
- The two totals are different because one student chose not to indicate his/her gender. The worksheet was designed to eliminate missing data.

The School Lunch Experience Survey Results



- Rows 1 to 17 display the means, frequencies, and percentages for all questions in Section I.
- Rows 20 to 29 display the frequencies and percentages for all questions in Section II.
- Rows 32 to 44 display the frequencies and percentages for questions in Section III.
- Totals only reflect the number of valid responses per question. These do not reflect students who left the questions blank.

Example Section I

- In this section, students are asked to use the phrase "When I eat school lunches..." before each of 24 statements about SN program attributes.
- The statement for Q1 reads, "The food served is fresh." According to the results, about half (50.98%) of the students neither agreed nor disagreed with the statement. The SN director can assume that one out of every two students who

3	<u>File Edit View</u>	Insert Format	Tools Data	<u>W</u> indow <u>F</u>
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	L43 🔻	f _x		
- 60	Α	B	C	D
1	SECTION I			
2		Q1	Q2	Q3
3	MEAN	3.08	4.08	3.10
4	Frequency			
5	SD	2		2
6	D	9	3	10
7	N	28	8	23
8	Α	12	19	13
9	SA	2	2 21	3
10	Total	51	52	51
11	1			
12	PERCENTAGE			
13	SD	3.92	1.92	3.92
14	D	17.65	5.77	19.61
15	N	(50.98	15.38	45.10
16	Α	23.53	36.54	25.49
17	SA	3.92	40.38	5.88

eat frequently at the cafeteria will most likely rate this item a 3. This is an indication of student perception that freshness is acceptable, but could be improved.

- In comparison, a majority of students agreeing (36.54%) or strongly agreeing (40.38%) with Q2, "The staff understands my meal time needs" indicates that students perceive staff performance on this item as above average. The SN director should consider this an area of strength.
- The pattern of responses in each rating category for Q1 and Q3, "The food tastes good" are very similar. Since both of these are related to food quality, the SN director can further investigate if the perception of freshness is affecting the students' evaluation of taste, or vice versa. If so, improving one item would most likely improve perceptions of the other.
- SN directors have suggested that for program excellence, mean scores of 4 and above are desirable in this section. Scores between 3 and 4 are acceptable, while scores of 3 and below should be given priority in determining areas of improvement.

The School Lunch Experience Survey, Section I

SN directors have suggested that for program excellence, mean scores of 4 and above are desirable in this section. Scores between 3 and 4 are acceptable, while scores of 3 and below should be given priority in determining areas of improvement.

Section II

- In this section, high school students are asked to choose the top five (out of 14) statements as their reasons for eating school lunch.
- Based on the example below, the top reasons for this group of students were: "I am hungry" (94.23%); "I didn't bring anything to eat" (69.23%); "It's convenient" (55.77%); "I have no choice" (40.38%); and "My parents/I pay in advance" (40.38%).
- Only 7.69% of students participate primarily because they are able to get a balanced meal. Likewise, only a minority (13.46%) of students view being able to try different foods and knowing what is being served as key reasons for participating.

19									
20	SECTI	ONII	Conven	ience Lil	ke food	Hunary	SEC Balanced Meal	No Food	Different foods
22	Frequ	ency							
23		Yes		29	11	49	4	36	7
24		No		23	41	3	48	Tb	45
25	Total			52	52	52	52	52	52
26					- 1				35500
27	PERC	ENTAGE					Total		nil-
28		Yes		55.77	21.15	94.23	7.69	(69.23)	13.46
29		No		44.23	78.85	5.77	92.31	30.77	86.54
30									
		No				Know		After	
		Choice	Variety	Friends	Pre-Pay	Menu	Schedul	e School	Affordabl
		21	10	20	2	:1	7	13 1	2 1
		31	42	32	- 3	1 4	5 3	39 4	U J
		52	52	52	5	2 5	2 6	52 6	52 5
		40.38	19.23	38.46	(40.3	8) (13.4	6) 25.0	00 23.0	8 26.9
		59.62	80.77	61.54					100000

Section III

- This section will assist the SN director in determining if the diversity of the high school students sampled was adequate.
- Based on the table, the sampling from the different grade levels was adequate. However, the table shows that the majority of the students sampled (62.75%) were female. This should be taken into account when interpreting the responses obtained

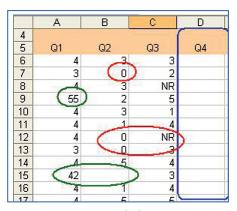
31			
32 33 34 35 36 37 38	SECTION III	SECTI	ION III
34	GRADE	Frequency	Percentage
35	9	12	23.53
36	10	15	29.41
37	11	11	21.57
38	12	13	25.49
39	Total*	51	
40	1		
41	GENDER	Frequency	Percentage
42	Male	19	37.25
43	Female	32	62.75
44	Total*	51	_
51			

in Sections I and II. The SN director may also consider recruiting additional male respondents. An additional three male respondents from each grade level would provide a more balanced sample.

Error Checking

• When the symbol "#DIV/0!" appears on the Summary worksheet, it means that the appropriate data has not been entered on the Data worksheet. Check that no columns on the Data tab are left blank (refer to the example below).

Г	A	В	C	D	E
1000	SECTION I	01	92	Q3	Q4
	MEAN	(6.29)	(1.88)	4.10	#DIV/0!
	Frequency		F-10		
à	SD	0	27	4	0
	D	1	2	3	0
1	N	4	10	7	0
	A	9	2	8	0
Ż	SA	36	9	30	0
0	Total*	50	50	52	0
1					
2	PERCENTAGE				
3	SD	0.00	54.00	7.69	#DIV/0!
4	D	2.00	4.00	5.77	#DIV/0!
5	N	8.00	20.00	13.46	#DIV/OI
ô	A	18.00	4.00	15.38	#DIV/DI
7	SA	72.00	18.00	57.69	#DIV/0!
3					



Summary Worksheet

Data Worksheet

- If any of the means for Section I are greater than 5.0, check the Data worksheet for errors (e.g., double key strokes such as "55" instead of 5, "42" instead of "4" for Column A and "2" for Column B).
- If averages are unusually (and unexpectedly) low, check the Data worksheet and make sure that when students did not respond to a question, it was recorded as NR (no response) instead of zero.

Factors Worksheet: Understanding Factor Scores

After a series of pilot tests with high school students across the United States, the characteristics or indicators for Section I were grouped into factors that represent operational aspects of the SN program. Below is a table comparing the factors and related survey statements.

The Non-Participation Survey

The School Lunch Experience Survey

Food Quality

- The food does not taste good.
- I do not like what is served.
- The food does not appear nutritious.
- I can not recognize what the food is.
- The food choices do not change.
- The food does not appear fresh.
- The choices offered are not those on the menu.
- The food is not cooked correctly.
- The food does not look healthy.
- The food does not look appealing.
- The overall food quality is poor.

Staff

- The staff is not friendly.
- The staff does not speak to me.
- The staff is not always pleasant.
- The cafeteria appears unclean.

Food Access

- The amount of food is inadequate.
- The food I like is gone when I get to the cafeteria.
- I have to go to different lines to get the food I want.
- I do not get enough food.
- They run out of food.

Dining Area Capacity

- There is not enough space in the dining room.
- There are not enough places to sit.

Schoolwork

- I need time to catch up on school work.
- I'm busy with school projects.

Food from Home

- I prefer to eat what I bring from home.
- I bring my own food.
- My parents purchase food for me to take to school.

Food Quality

- The food served is fresh.
- The food tastes good.
- There is a variety of food items that I can choose from
- The food smells good.
- The flavors of the food go well together.
- There is a variety in the menu from day to day.
- The food looks appealing.
- The food is cooked to the proper doneness.
- The food has a homemade quality.

Staff Responsiveness and Empathy

- The staff understands my meal time needs.
- The menu provides healthy meal options.
- The staff looks like they enjoy their work.
- The service is friendly.
- I know that I can offer suggestions.

Program Reliability

- The amount of food I get is enough.
- There is enough seating space in the dining area.
- The serving portions are consistent.
- I know what is being served before I get to the cafeteria.
- I could purchase other items (a la carte) if I don't want the full meal.
- I have enough time to eat.
- The quality of the food is consistent.

The indicators are grouped together because they are highly associated with each other. Together, they can provide a snapshot of student perceptions for each factor. Although there are similarities between the indicators used in the two surveys, the number of factors and the grouping of indicators within the factors are not identical. This shows that students who eat two or less times a week may have different perceptions and concerns about the SN program compared to students who eat frequently.

Example

Interpreting The Non-Participation Survey Results

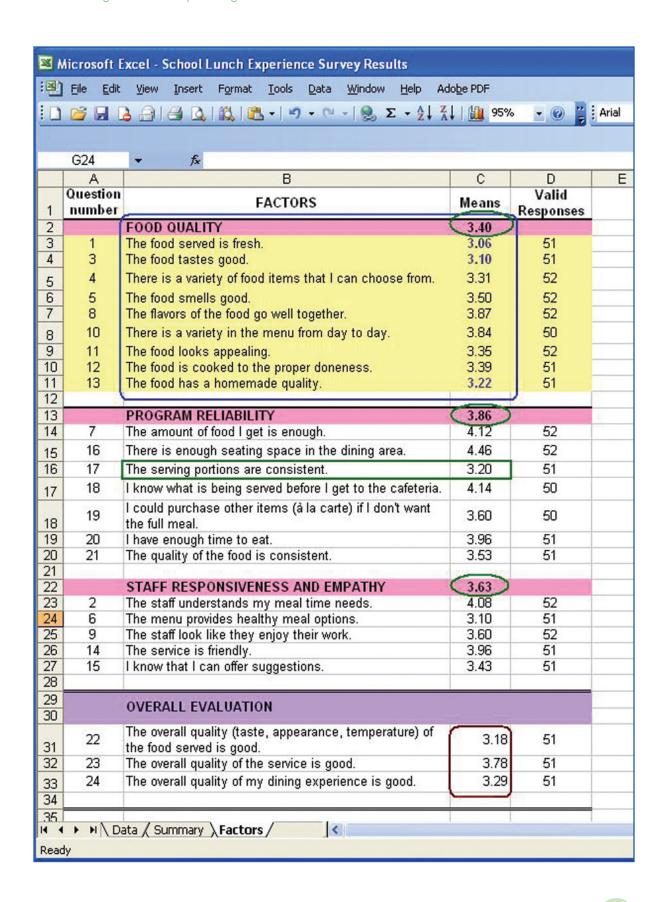
- The six factors affecting non-participation can be classified as internal or external to the SN operation. Food Quality, Food Access, and Staff are operationally controllable and could be addressed internally. Dining Area Capacity, Schoolwork, and Food from Home are generally external to SN program operations and may be addressed with the assistance of other stakeholders (e.g., district and/or school administration, teachers, parents, other community members).
- SN directors have suggested that improvement plans should give higher priority to factors that are operationally controllable. These would most likely have the greatest impact on increasing participation rates.
- Looking at the example on the next page, Food Access (3.92) is the biggest operational concern of students, closely followed by Food Quality (3.89), and Staff (3.51).
- In examining the indicators within Food Access, the
 primary concerns of the students are that the amount of
 food is inadequate, the cafeteria runs out of food, and the
 food they like is not available when they get to the cafeteria.
 Operationally, these could be addressed by observing and
 analyzing menu forecasting practices, consistency of serving
 portions, production schedules, and adherence to standardized
 recipes.
- To improve Food Quality, it is apparent that one approach is to present the food better so high school students will perceive it as nutritious, fresh, healthy, and appealing.

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	A49	▼ f _k			
	A	В	С	D	
	Question		Value of	Valid	
	number		Means	Responses	
2	45	FOOD QUALITY	3.89	N Comment	
3	1	The food does not taste good.	3.94	52	
1	6	I do not like what is served.	2.92	52	
5	8	The food does not appear nutritious.	4.56	52	
6	13 14	I can not recognize what the food is.	3.42 3.94	52 51	
3	16	The food choices do not change. The food does not appear fresh.	4.46	52	
-	17	The choices offered are not those on the menu.	3.31	51	
3				49	
0	18 20	The food is not cooked correctly.	4.31 4.18	50	
2	22	The food does not look healthy. The food does not look appealing.	4.10	51	
3	27	The overall food quality is poor.	3.62	52	
4	21	The overall lood quality is pool.	J.02	J2	
5		FOOD ACCESS	3.92		
6	3	The amount of food is inadequate.	4.31	52	
	10	The food I like is gone when I get to the cafeteria.	4.20	49	
7				0.00	
8	12	I have to go to different lines to get the food I want.	3.70	50	
9	23	I do not get enough food.	3.13	52	
0.0	24	They run out of food.	4.31	49	
1		DIMINO ADEA CADACITY	207		
2		DINING AREA CAPACITY	3.87	50	
3	4	There is not enough space in the dining room.	4.12	52	
4	19	There are not enough places to sit.	3.63	51	
5		OTHER	<u></u>		
6	_	STAFF The staff is set friendly	3.51	50	
7	5	The staff is not friendly.	3.52	52 52	
8	15	The staff does not speak to me.	3.44 3.40		
0	25 26	The staff is not always pleasant.	3.40	52 52	
1	20	The cafeteria appears unclean.	3.07	52	
2		SCHOOLWORK	3.45		
3	11	I need time to catch up on school work.	3.38	52	
4	21	I'm busy with school projects.	3.51	51	
5	21	THI basy with school projects.	0.01	- 31	
6		FOOD FROM HOME	3.94		
7	2	I prefer to eat what I bring from home.	4.38	52	
8	7	I bring my own food.	4.21	52	
	9	My parents purchase food for me to take to		202	
9	9	school.	3.21	52	
0					

Example

Interpreting The School Lunch Experience Survey Results

- In addition to Food Quality, Program Reliability, and Staff Responsiveness and Empathy, the Factors worksheet for The School Lunch Experience Survey also includes an Overall Evaluation that provides the director with a snap-shot of student evaluations for food quality, service quality, and overall quality of the dining experience.
- SN directors suggested that the factor with the lowest score should be given the highest priority when planning for improvement. However, they cautioned against completely ignoring the factor with the highest score. All the indicators within the factors should be examined for poor performance.
- Looking at the example given on the next page, students perceived that the SN program performed best in the factor Program Reliability (3.86). However, the item "The serving portions are consistent" (3.20) received one of the lowest scores across the three factors and should be addressed.
- In examining the indicators within Food Quality, students rated freshness (3.06), taste (3.10), and homemade quality (3.22) of the foods the lowest. Improving these three indicators, especially the freshness of the food items, would most likely improve the students' evaluations of other food quality indicators.
- Based on the example, students evaluated the quality of service (3.78) higher than food quality (3.18). Seeing that the overall quality of dining experience (3.29) is rated lower than the quality of service, it is evident that even if the staff does well, food quality still strongly influences the students' evaluation of the overall dining quality.



Other Suggestions from School Nutrition Directors

- Ask the following contacts for help with statistical data analysis if you require more information than the templates provide:
 - Faculty, graduate students, or extension specialists at nearby colleges or universities;
 - High school teachers (especially those teaching math, statistics, or business courses); and
 - District or school technology officer (for converting online survey data base or scantron automated results into an uploadable data file for Microsoft Excel).
- Seek assistance from district's superintendent or public relations officer
 to create a proactive media release statement reporting top positive
 results as well as actionable negative points with an accompanying plan
 for improvement. This report may be given to parents, students, and
 community members via the SN program's Web site, school newsletter,
 and local print or broadcast media in the form of public service
 announcements or featured articles.

Developing a Customer Service Action Plan Using the Continuous Quality Improvement Process

Results of both *The School Lunch Experience Survey and The Non-Participation Survey* can be used to develop a Customer Service Action Plan (Appendix C) geared towards advancing the SN program. The modified Problem Solving Discipline Approach (Rampersad, 2001) outlined in NFSMI's Continuous Quality Improvement Process Tailored to the School Nutrition Environment (Lambert, et al., 2006) can guide SN directors and managers in creating a realistic, achievable, and actionable plan to accomplish operational changes.

The Continuous Quality Improvement (CQI) process involves six steps:

- Step 1: Define area(s) for improvement
- Step 2: Identify all possible causes
- Step 3: Develop a CQI Action Plan
- Step 4: Implement the CQI Action Plan
- Step 5: Evaluate measurement outcome(s) for program improvement
- Step 6: Standardize the CQI process

As with survey administration, a team approach to CQI is advisable. It is important to include diverse perspectives by involving SN staff with different degrees of work experience, education levels, job responsibilities, and cultural backgrounds (Lambert et al., 2006). Involving SN staff is essential, because they are individually and collectively responsible for most customer service outcomes. Other stakeholders such as principals, students, teachers, parents, or custodians may also be asked for specific input when/if necessary.

The CQI process

Step 1 Define area(s) for improvement

Step 2 Identify all possible causes

Step 3 Develop a CQI Action Plan

Step 4 Implement the CQI Action Plan

Step 5
Evaluate
measurement
outcome(s)
for program
improvement

Step 6 Standardize the CQI process

Step 1

Define area(s) for improvement

- Discuss survey results with SN staff. Highlight and commend excellent performance first before introducing areas requiring immediate improvement.
- Based on survey results, identify the factors that students perceive as the areas that need most improvement.
 - For *The Non-Participation Survey*, a HIGH score in Section I often reflects the students' perception that the SN program is NOT doing well in that category. For example, a 4.10 on the item "The food does not taste good" means that the students agree and therefore perceive that the palatability of the food needs to improve. Higher factor averages indicate your greatest challenge or area of improvement.
 - For *The School Lunch Experience Survey*, the higher the item and/or factor score, the better is the students' perceptions of their dining experience. These indicate your areas of strength. Factors with the lowest scores should be given the priority and would likely have the most significant impact on program improvement.
- These factors may vary per SN site, thus conducting individual meetings with managers is advisable to review the scores specific to each SN site.

Step 2

Identify all possible causes

- With the CQI team, list all the possible causes that may have contributed to the unfavorable scores on the survey(s). Remember that CQI focuses on program advancement by improving processes instead of finding fault with individuals (Spears & Gregroire, 2007).
- These underlying causes may include, but are not limited to:
 - Materials (e.g., ingredients, non-food supplies);
 - Methods (e.g., batch cooking, menu planning, service protocols);
 - Staff (e.g., skills training, number of staff, staffing schedules):
 - Facilities (e.g., equipment, kitchen lay-out, seating capacity);
 - Environment (e.g., air conditioning, cleanliness); and
 - Other operational aspects (e.g., budget, communications/information, time, utilities).

Factors for improvement may vary per SN site, thus conducting individual meetings with managers is advisable to review the scores specific to each SN site.

- Factors that need improvement may be the same across multiple SN sites (e.g., Food Quality), but the underlying reasons may be different for each high school (e.g., taste, doneness, aroma, visual appeal).
- After the team determines the causes, select those that have the greatest impact on the factor to be improved, and use these to develop the CQI Action Plan as outlined in Step 3.

Step 3 Develop a CQI Action Plan

- List measurable key actions for improvement.
- Specify how improvement will be measured (desired outcome).
- Identify the person responsible for completing the key actions.
- Agree on the time frame or schedule for completion.
- Prioritize the action steps based on factors(s) that need the most immediate improvement.
- Assess commonalities across multiple school sites. Develop over-all strategies for factors, but tailor key actions to individual SN sites.
- On the following page is an example of how the Action Plan should be filled out given the following scenario:

The School Lunch Experience Survey was conducted in early October and the SN program received the lowest scores for the following factors and items.

- 1) Program Reliability: The serving portions are consistent.
- 2) Food Quality: The food looks appealing.

Step 4

Implement the CQI Action Plan

- Share the CQI Action Plan and expected outcomes with SN staff. Explain their role and importance in program improvement. The success of CQI implementation hinges on the active involvement of SN staff.
- Within the SN site, the manager should be prepared to provide staff with assistance and ask for support from the director when warranted.
- During the period of implementation, the SN director should conduct informal observations to monitor progress, provide constructive feedback, and/or assist in addressing roadblocks when necessary.

Customer Service Area to be I	mprovedProgram Relia	bility ————	Priority 1
Key Actions	Measurement	Person Responsible	Time Line
Train staff on following standardized recipes and appropriate portion control	1. 100% of staff will participate in training	1. SN Manager	1. October
2. Serving portions are consistent for every student served	2. Number of portions sold (PS) plus left over portions (LO) equals yield (Y) as per standardized recipes for month of October	2. SN Assistant	2. October
	Evaluating Measurement Ou	tcome	
Customer Service Area to be I	mprovedFood Quali	ty	Priority 2
Customer Service Area to be I	mproved Food Quali Measurement	ty Person Responsible	Priority 2
	mproved		, <u> </u>
Key Actions 1. Develop a garnishing list to	Measurement 1. Provide garnishing list to	Person Responsible	Time Line
Key Actions 1. Develop a garnishing list to use with menu items 2. Train SN staff on	Measurement 1. Provide garnishing list to SN production staff 2. 100% of staff will	Person Responsible 1. SN Manager	Time Line 1. October
Key Actions 1. Develop a garnishing list to use with menu items 2. Train SN staff on garnishing techniques 3. Present food items on the serving line in an attractive	Measurement 1. Provide garnishing list to SN production staff 2. 100% of staff will participate in training 3. At least two main entrées and two side dishes will be garnished daily for the	Person Responsible 1. SN Manager 2. SN Manager 3. SN Assistant	Time Line 1. October 2. October

Step 5 Evaluate measurement outcome(s) for program improvement

- Use quantitative measurements when evaluating implementation success. Examples of these measurements include, but are not limited to, numbers and percentages, participation rates, meals per labor hour, plate waste, food costs, and equipment usage. Information from profit and loss statements, point-of-sale (POS) reports, production sheets, inventory records, HACCP documentation, follow-up surveys, and staffing records may also be useful in quantifying improvement.
- Schedule follow-up meeting(s) to review actions completed, commend improvement, discuss any concerns, and identify future actions.
- If the measurement outcome does not meet the anticipated outcome, the CQI team can agree to do one of three recommendations:
 - 1) Determine corrective action, set a new deadline for completion, and reevaluate the measurement outcome;
 - 2) Return to Step 1 and redefine the area of improvement; or
 - 3) Return to Step 3 to re-evaluate the action plan chosen by the CQI team.
- Communicate updated Action Plan to SN staff and pertinent stakeholders when needed (e.g., school administrators, custodian staff, district staff).
- On the following page is an example with the Evaluation Measurement Outcome section completed.

Customer Service Area to be In	mproved Program Relia	bility	Priority 1
Key Actions	Measurement	Person Responsible	Time Line
Train staff on following standardized recipes and appropriate portion control	1. 100% of staff will participate in training	1. SN Manager	1. October
Serving portions are consistent for every student served	2. Number of portions sold (PS) plus left over portions (LO) equals yield (Y) as per standardized recipes for month of October	2. SN Assistant	2. October

Evaluating Measurement Outcome

- 1. 97% of staff participated in training. Note: Provide on-the-job training for staff who were absent during training
- 2. Data from production sheets and POS:
 - 90% : PS + LO = Y
 - 6%: PS + LO < Y
 - 4%: PS + LO > Y

Note: Track and re-evaluate for month of November.

Customer Service Area to be In	mprovedFood Quali	ty	Priority 2
Key Actions	Measurement	Person Responsible	Time Line
Develop a garnishing list to use with menu items	Provide garnishing list to SN production staff	1. SN Manager	1. October
2. Train SN staff on garnishing techniques	2. 100% of staff will participate in training	2. SN Manager	2. October
3. Present food items on the serving line in an attractive way	3. At least two main entrées and two side dishes will be garnished daily for the month of November	3. SN Assistant	3. November
	Evaluating Measurement Out	ccome	
 1. 100% of production staff were 2. 100% of staff attended trainin 3. 98% of main entrées were garnes 92% of side dishes were garnis Note: Re-evaluate in December 	g nished;		

Step 6 Standardize the CQI process

- Based on perceived impact on the program (participation rates, bottom line, customer feedback), the CQI team determines which improvement initiatives should be sustained, discontinued, or reassessed.
- If the CQI team determines that the outcomes of the Action Plan are acceptable and impacts to program improvement are significant, these should be incorporated into daily operations in the form of policies and/or procedures.
- Using the example on the previous page, if POS records show that garnished entrées and side dishes are sold significantly more than items that are not, then garnishing protocols should be included in standardized recipes for all menu items.

Summary

Measuring student perceptions is important for establishing internal benchmarks that lead to program improvement. Because customer feedback impacts decision-making for the SN program, using the correct survey instrument and process will facilitate the gathering of reliable data. Understanding this information to develop solutions will encourage increased participation for high school students who do not eat school lunches frequently, as well as facilitate customer satisfaction and retention for students who already take part in the NSLP.

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The Non-Participation Survey Understanding Why High School Students Do Not Eat School Lunches

The Non-Participation Survey



The Non-Participation Survey

Understanding Why High School Students Do Not Eat School Lunches

Completely fill in the circle of your answer. Use a #2 pencil.

Incorrect (X)

Your School Nutrition Program is interested in understanding why high school students do not eat or do not eat frequently in the school lunch program. Please reflect on these statements and answer based on your own experience.

SECTION I. Reasons for not eating school lunches

Instructions:

Please read the statements regarding reasons for not eating (or not eating frequently) school lunches. As you respond, use the phrase "My reason for not eating school lunches is that" before each statement and then indicate your level of agreement by using the scale 5 (Strongly Agree) to 1 (Strongly Disagree).

	My reason for not eating school lunches is that	Strongly Agree	-	-	-	Strongly Disagree
1.	The food does not taste good.	5	4	3	2	1
2.	I prefer to eat what I bring from home.	(5)	4	(3)	2	1
3.	The amount of food is inadequate.	5	4	3	2	1
4.	There is not enough space in the dining room.	5	4	3	2	1
5.	The staff is not friendly.	(5)	4	3	2	1
6.	I do not like what is served.	5	4	3	2	1
7.	I bring my own food.	(5)	4	3	2	1
8.	The food does not appear nutritious.	5	4	3	2	1
9.	My parents purchase food for me to take to school.	(5)	4	3	2	1
10.	The food I like is gone before I get to the cafeteria.	(5)	4	3	2	1
11.	I need time to catch up on school work.	(5)	4	3	2	1
12.	I have to go to different lines to get the food I want.	5	4	3	2	1
13.	I can not recognize what the food is.	(5)	4	3	2	1
14.	The food choices do not change.	5	4	3	2	1
15.	The staff does not speak to me.	5	4	3	2	1
16.	The food does not appear fresh.	(5)	4	3	2	1
17.	The choices offered are not those on the menu.	(5)	4	3	2	1
18.	The food is not cooked correctly.	5	4	3	2	1
19.	There are not enough places to sit.	(5)	4	3	2	1
20.	The food does not look healthy.	(5)	4	3	2	1
21.	I'm busy with school projects.	5	4	3	2	1
22.	The food does not look appealing.	5	4	3	2	1

Page 1

The Non-Participation Survey (continued)

My reason for not ea	iting school lunches is t	nat	Strongly Agree	-	•	-	Strongly Disagree
I do not get enough food.			(5)	4	3	2	1
They run out of food.			(5)	4	3	2	1
The staff is not always ple	easant.		5	4	3	2	1
The cafeteria appears und	clean.		(5)	4	3	2	1
The overall food quality is	poor.		(5)	4	3	2	1
SECTION II. Decidin	ng to eat school lunch	es					
more frequently. As yo before each statement to 1 (Strongly Disagre	ou respond, use the phras t, and then rate your level	influence your decision to state, "I would be more likely to e of agreement by using the so	eat school lui	nches gly A	s if"		Strongly Disagree
The overall quality (taste	annogrance temperature) s	f the food served were better.	Str	(4)	(3)	(2)	
			(5)	(4)	3	2	1
There were more healthy	in the menu from day to day.	2	(5)	4	3	2	1
he staff were friendlier.	options available.		(5)	(4)	3	2	1
The staff were mendier. The wait in line were shor	tor		(5)	(4)	3	(2)	1
PER PRINTED AND THE PER PRINTED AND CHIEF. MINISTER AND A PER PRINTED AND AND A PER PRINTED A PER PRINTED AND A PER PRINTED AND A PER PRINTED AND A PER PRIN	571.05.0x2		(5)	4		2	(1)
The serving and dining an	21 TAN 1808 W		(5)	(4)	3	2	1
There were more seating		oriod	(5)	4	(3)	(2)	-
	my friends during the meal p at before the meal period was	TO CO 1987 198	(5)	(4)	3	(2)	1
	be on the menu before I got		(5)	4	(3)	(2)	1
	enus were more accurate.	to the caleteria.	(5)	(4)	(3)	(2)	1
	tems that I can recognize.		(5)	(4)	(3)	(2)	1
I received enough food to	COM CONTRACTOR STANDARD AND CONTRACTOR OF PRODUCTS OF STANDARD STANDARD STANDARD.		(5)	(4)	(3)	(2)	1
Treceived enough lood to	illi ille up.		0	4	(0)	(2)	U
SECTION III. Tell us a	about you						
Instructions:							
Please answer the follo			12th	Grade			
	ool? 10th Grade	11th Grade	0				
Please answer the follow What is your grade in school 9th Grade							

Parental Consent (Template)

Authorization to Participate in Survey

The Non-Participation Survey Understanding Why High School Students Do Not Eat School Meals

Dear Parent/Guardian:

The school nutrition (SN) program at your son/daughter's school is conducting a survey to learn more about the reasons why high school students choose not to eat school meals. This survey will be given to students in your son/daughter's high school on (insert date, time, and location) and will last approximately 15 to 30 minutes.

Participation in this project is completely voluntary and you have the right to refuse to allow your son/daughter to participate. He/She has the right to refuse to participate even if you give your permission. He/She may refuse to answer any of the questions on the survey and may withdraw from the survey at any time without penalty, prejudice, or loss of benefits.

Your son/daughter's survey will be anonymous as there will be no identifying codes linking him/her name to the survey. All information from the completed survey will be kept confidential. Information from all the completed surveys will be reported in summary form only. There is no known risk to your son/daughter for participating in this study other than the time it takes to complete the survey. The survey results will be used by the SN program to better address the needs of high school students.

Please sign and return this form to your child's teacher. If you have any questions about the survey, you may contact (insert SN director's name) via e-mail at (insert e-mail address) or by phone at (insert phone number).

□ I allow my son/daughter to partici □ I do not allow my son/daughter to	pate in the foodservice survey participate in the foodservice survey	
Name of Student	Signature of Parent/Guardian	Date

Student Assent

The Non-Participation Survey Understanding Why High School Students Do Not Eat School Meals

You have been chosen to answer a survey that will help us understand the reasons why high school students choose not to eat school lunches frequently.

Please complete the survey; it will take you approximately 15 to 30 minutes. The first part of the survey asks you to indicate the reasons why you choose not to eat lunch at the cafeteria. The second part asks how much each of these statements will affect your decision to start eating school lunches more frequently. The last part asks that you indicate your grade level and gender.

As you take the survey, you will notice that there are some statements that sound similar. We encourage you to answer all the questions because this will help us understand your concerns. However, if there are any statements you don't know the answer to, that's O.K. If there are any statements that for some reason you don't want to answer, that's O.K., too. Please be honest and keep in mind that there are no right or wrong answers. Your responses are anonymous and there are no identifying codes linking you to the survey.

Thank you for providing us the feedback! Your answers will help us improve the school nutrition program to better meet your needs.

Memo to principal and/or teacher(s)

To: (insert name of school administrator)

From: (insert name of SN director)

Date: xx/xx/xxxx

Re: School Nutrition Survey

The school nutrition (SN) program is conducting a foodservice survey at your high school as part of our continuous improvement efforts. *The Non-Participation Survey* will identify why students at your high school choose not to eat meals through the National School Lunch Program.

The survey we are using was tested and validated by the National Food Service Management Institute, Applied Research Division (NFSMI, ARD). NFSMI is a federally funded organization with the mission of carrying out activities through applied research, education, and training to improve the general operation and quality of Child Nutrition Programs nationwide.

Please review the following instructions for conducting the survey:

- 1. Students will complete the survey on (insert date) at (insert time).
- 2. The SN program director (or authorized representative) will deliver the survey packets to each school administrative office one week prior to conducting the survey.
- 3. The administrative assistant will place the survey packet into the principal's mail box.
- 4. The principal (or authorized representative) will meet selected students at (insert time and venue).
- 5. The survey will take approximately 30 minutes. This includes time for giving instructions, distributing the survey, and completing the survey.
- 6. Once all of the surveys are completed, the principal (or authorized representative) will collect and return them to the administrative assistant.
- 7. The SN program director (or authorized representative) will collect the surveys from the administrative assistant.

We appreciate your assistance in conducting this survey with our high school students. Thank you for supporting our goal to increase participation in our program. Should you have any questions regarding the instructions for conducting the survey, please do not hesitate to contact me at (insert phone number). Results of the survey will be made available for your review.

Note

Specific instructions (#1-7) are examples only and may be modified according to survey method as determined by the SN director and/or district/school administrators.

The School Lunch Experience Survey

Making your opinions known

The School Lunch Experience Survey



The School Lunch Experience Survey Making your opinions known

SECTION I. Your lunch experience

Instructions:

	The School Lunch Experience Making your opinions ke	-				
NFSMI	Completely fill in the circle of your answer.	Use a #2 pe	encil.	9		_
	Correct Use No. 2 Pencil Only	Incorrect				
doing. Please take a fe experience at the scho SECTION I. Your lunch e Instructions: Listed below are several fe	xperience eatures of school lunch programs. As you respond	of your dining the state of the	ase, '	'Whe		
school lunches" before e (Strongly Agree) to 1 (Stro	ach statement and then indicate your level of agre	ement by us	ing th	ne sc	ale 5	
When I eat school lunche		Strongly	, -	•	-	Strongly
The food served is fresh.		(5)	4	(3)	(2)	1
2. The staff understands my mea	I time needs.	(5)	4	3	2	(
The food tastes good.		(5)	(4)	(3)	(2)	1
4. There is a variety of food items	that I can choose from.	(5)	(4)	(3)	(2)	(
5. The food smells good.		(5)	(4)	3	2	16
The menu provides healthy me	al options.	(5)	4	3	(2)	1
7. The amount of food I get is end	ough.	(5)	4	(3)	(2)	10
The flavors of the food go well	together.	(5)	(4)	(3)	(2)	1
The staff look like they enjoy th	eir work.	(5)	4	3	(2)	13
There is variety in the menu fro	om day to day.	(5)	4	(3)	(2)	(
The food looks appealing.		(5)	4	(3)	(2)	15
2. Food is cooked to the proper d	oneness.	(5)	4	3	2	:(
3. The food has a homemade qua	ality.	(5)	4	(3)	(2)	13
The service is friendly.		(5)	4	3	2	15
5. I know that I can offer suggesti	ons.	(5)	4	(3)	(2)	3
6. There is enough seating space	in the dining area.	(5)	4	(3)	2	1
7. The serving portions are consis	stent.	(5)	4	3	(2)	(
8. I know what is being served be	fore I get to the cafeteria.	(5)	4	(3)	(2)	3
I could purchase other items (a	la carte) if I don't want the full meal.	(5)	4	3	2	1
I have enough time to eat.		(5)	(4)	(3)	2	15
1. The quality of the food is consi	stent.	(5)	4	3	2	1
2. The overall quality (taste, appe	earance, temperature) of the food served is good.	(5)	4	(3)	(2)	13
3. The overall quality of the service	ce is good.	(5)	4	3	2	Ć
The everall quality of the corre						

The School Lunch Experience Survey (continued)

Instructions: Read the statements belo	ow. Please choo	ose the TOP FIVE REASONS why you eat school lunches.
It's convenient		I like the variety of menu items
I like the food		My friends eat school lunches
I am hungry		My parents/I pay in advance
 I get a balanced meal 		I know what is being served
I didn't bring anything	to eat	It fits my schedule
 I get to try different foc 	ods	 It prepares me for after school activities
 I have no choice 		○ It's affordable
ECTION III. Tell us at	oout you	
structions: ease answer the followi	ng questions.	
/hat is your grade in schoo	ol? 10th Grade	11th Grade 12th Grade
n average, how many time Two or less	es PER WEEK do Three or more	3
Vhat is your gender? Male	Female Thank	you for your time and input!
		you for your time and input!
		you for your time and input!
		you for your time and input!
		you for your time and input!
		you for your time and input!
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		you for your time and input!

Parental Consent Template

Authorization to Participate in Survey

The School Lunch Experience Survey Making your opinions known

Dear Parent/Guardian:

The (SN) program is conducting a survey at your son/daughter's school to learn more about the factors that impact the satisfaction of high school students with the school lunch program. This survey will be given to students in your son/daughter's high school on (insert date, time, and location) and will last approximately 15 to 30 minutes.

Participation in this project is completely voluntary and you have the right to refuse to allow your son/daughter to participate. He/She has the right to refuse to participate even if you give your permission. He/She may refuse to answer any of the questions on the survey and may withdraw from the survey at any time without penalty, prejudice, or loss of benefits.

Your son/daughter's survey will be anonymous as there will be no identifying codes linking his/her name to the survey. All information from the completed survey will be kept confidential. Information from all the completed surveys will be reported in summary form only. There is no known risk to your son/daughter for participating in this study other than the time it takes to complete the survey. The survey results will be used by the SN program to better address the needs of high school students.

Please sign and return this form to your child's teacher. If you have any questions about the research, you may contact (insert SN director's name) via e-mail at (insert e-mail address) or by phone at (insert phone number).

□ I allow my son/daughter to participa□ I do not allow my son/daughter to pa	·	
Name of Student	Signature of Parent/Guardian	Date

Assent Statement for High School Students

The School Lunch Experience Survey Making your opinions known

You have been chosen to answer a survey that will help us understand what you think of the school lunch program.

It will take about 15 to 30 minutes to complete the survey. The first part asks about your opinions about the school lunch program. The second part of the survey asks you to indicate the reasons why you choose to eat lunch at the cafeteria. The last part asks that you indicate your grade level, how often you eat school lunches, and your gender.

As you take the survey, you will notice that there are some statements that sound similar. We encourage you to answer all the questions because this will help us understand your concerns. However, if there are any statements you don't know the answer to, that's O.K. If there are any statements that for some reason you don't want to answer, that's O.K., too. Please be honest and keep in mind that there are no right or wrong answers. Your responses are anonymous and there are no identifying codes linking you to the survey.

Thank you for providing us the feedback! Your answers will help us improve the school nutrition program to better meet your needs.

Memo to principal and/or teacher(s)

To: (insert name of school administrator)

From: (insert name of SN director)

Date: xx/xx/xxxx

Re: School Lunch Experience Survey for High School Students

The school nutrition (SN) program is conducting The School Lunch Experience Survey as part of our continuous improvement efforts and ongoing assessment of customer satisfaction. The survey will determine students' perceptions of our school lunch program regarding food quality, service, and their overall dining experience.

The survey we are using was tested and validated by the National Food Service Management Institute, Applied Research Division (NFSMI, ARD). NFSMI is a federally funded organization with the mission of carrying out activities through applied research, education, and training to improve the general operation and quality of Child Nutrition Programs nationwide.

Please review the following instructions for conducting the survey:

- 1. Students will complete the survey on (insert date) at (insert time).
- 2. The SN program director (or authorized representative) will deliver the survey packets to each school administrative office one week prior to conducting the survey.
- 3. The administrative assistant will place the survey packets into the homeroom teachers' mail boxes
- 4. Homeroom teachers will pick up the packets and distribute the surveys to students at the stated date and time.
- 5. The survey will take approximately 30 minutes. This includes time for giving instructions, distributing the survey, and completing the survey.
- 6. Once all of the surveys are completed, the teacher will collect and return them to the administrative assistant.
- 7. The SN program director (or authorized representative) will collect the surveys from the administrative assistant.

We appreciate your assistance in conducting this survey with our high school students. Thank you for supporting our goal to provide better service and improve customer satisfaction. Should you have any questions regarding the instructions for conducting the survey, please do not hesitate to contact me at (insert phone number). Results of the survey will be made available for your review.

Note

Specific instructions (#1-7) are examples only and may be modified according to survey method as determined by the SN director and/or district/school administrators.

Appendix C

Continuous Quality Improvement Action Plan

Continuous Quality Improvement Action Plan Form

High School Name	(Date Developed)	District Name
l		

Instructions

Determine the customer service area(s) to be improved. Complete key actions, measurement criteria, person responsible for action, and time line for completion. Use additional forms if necessary. At the time that action is due, evaluate progress based on measurement criteria and complete the section "Evaluating Measurement Outcome".

Customer Service Area to be In	mproved		Priority
Key Actions	Measurement	Person Responsible	Time Line
	Evaluating Measurement Out	tcome	

Continuous Quality Improvement Action Plan Form (continued)

Customer Service Area to be I	mproved		Priority
Key Actions	Measurement	Person Responsible	Time Line
	Evaluating Measurement Ou	itcome	
Customer Service Area to be I	mproved		Priority
Customer Service Area to be I Key Actions	mproved Measurement	Person Responsible	Priority Time Line
		Person Responsible	
	Measurement		



National Food Service Management Institute

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