



National Food Service Management Institute
The University of Mississippi

Resource *to Sustain and Strengthen Local Wellness Initiatives*



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The University of Southern Mississippi

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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.

Contact Information

Headquarters

Administrative Division

The University of Mississippi

Phone: 800-321-3054

Fax: 800-321-3061

www.nfsmi.org

Education and Training Division

Information Services Division

The University of Mississippi

6 Jeanette Phillips Drive

P.O. Drawer 188

University, MS 38677-0188

Applied Research Division

The University of Southern Mississippi

118 College Drive #5060

Hattiesburg, MS 39406-0001

Phone: 601-266-5773

Fax: 888-262-9631

Acknowledgments

Written and Developed by

Mildred Cody, PhD, RD
Mary Frances Nettles, PhD, RD

Graphic Design by

Travis Brewington
Karen Mullins

NFSMI Executive Director

Katie Wilson, PhD, SNS

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Introduction: The 8 Step Process

This *Resource to Sustain and Strengthen Local Wellness Initiatives* was developed because the 2010 *Sustainability of School Wellness Policy Initiatives* national survey conducted by the National Food Service Management Institute, Applied Research Division (NFSMI, ARD) and the 2009 *USDA Team Nutrition Local Wellness Demonstration Project* both documented that school districts and school sites were unsure about how to start the monitoring and evaluation requirements of the Local Wellness Policy legislation. This evaluation gap is important because without evaluation school districts and school sites cannot report progress toward meeting their goals in a meaningful way or plan for continuous improvement. Since the policies are local, there is not a State or Federal evaluation process in place for school districts and sites to follow.

This resource was developed for school districts and school sites that are starting to evaluate components of their local wellness policies. It is a guide for individuals and evaluation teams that want step-by-step instructions for conducting their evaluation, deciding what their results mean and communicating their findings to stakeholders. It is designed to meet the initial needs of school districts and school sites that do not have personnel who are trained in evaluation and who do not have evaluation as core job components.

The resource was developed with the involvement of school nutrition (SN) professionals in several stages. First, an expert panel was convened to draft practice statements to capture issues identified in previous research and in their professional experiences on strengthening and sustaining local wellness policies. This panel included national, state, and district level personnel, including a school superintendent. After the expert panel convened and completed their discussions, their outcomes, including the practice statements, were summarized and sent back to them for confirmation. Once the expert panel members confirmed the meeting outcomes, the practice statements were sent to

a national review panel composed of state and local SN professionals and university faculty with SN evaluation experience for comment and validation. The national review panel validated the expert panel practice statements, which form the basis for the content of this resource.

The basic principle of this resource is that effective evaluation is an important tool for improving school environments to achieve student wellness.

- Effective evaluation measures improvement in small changes.
- The process of evaluation is
 - integrated into management and curriculum and is
 - continuous and sustainable.

Evaluation helps you to assess what you value, i.e., what you have planned to accomplish.

To guide your evaluation efforts, the content of the resource describes the evaluation process as a series of action steps. These steps are explained in the resource. Each step is 2–4 pages long and includes background information, tips, and additional information to help you conduct an evaluation that will be worth your effort. Within the 2–4 pages for each step is an example evaluation of an objective carried through from selection (Step 1) to communication of findings and recommendations (Step 8). This example will help you apply the background information to your evaluation. Following the steps in this resource will help you to build and sustain a strong wellness effort in your school district. The steps are:

- Step 1: Select an objective/activity to evaluate
- Step 2: Select your measurement type
- Step 3: Determine what you will measure
- Step 4: Select a data collection tool
- Step 5: Collect your data
- Step 6: Analyze the collected data
- Step 7: Determine what your results mean
- Step 8: Communicate your results

Introduction: The 8 Step Process

The resource also contains a glossary and a section on Evaluation Aids and Examples that includes:

- Resources on Evaluating Local Wellness Policies
- List of Potential Factors to Measure
- Example of a Checklist: *What Do You Do for Exercise?*
- Example of an Observation Form: *Observation of Track Walking Before or After School*
- Example of a Survey: *My Track Walking Time*
- Example of a Participation Log: *Sign In, Please!*
- Evaluation Math
- Examples of Presentation Slides

To get the most out of this resource, complete each step before moving to the next step. Write your decisions in the workbook so that you can describe them to your stakeholders later. If you have problems, write them in the workbook so that you can make changes in future evaluation efforts. In addition to helping you with your evaluation efforts, your workbook can be helpful to colleagues who work with evaluation in the future because they will be able to learn from your efforts.

Is Your Local Wellness Policy Ready for Effective Evaluation? To develop an effective evaluation you must have measurable goals and/or objectives. Sometimes the terms “goal” and “objective” are used interchangeably. In other cases the term “goal” has a broader meaning that is related to a longer-term aim, and the term “objective” describes the specific steps that you plan to take to reach the goal. Either way, you will need to review your policy to determine what measures will show your progress toward meeting your goals.

The wording in your plan, whether it describes only goals or both goals and objectives, is important because it tells you what you will be

evaluating. It tells the

- who,
- what,
- where
- when (sometimes) and
- how much (sometimes)

that you will

- measure,
- record, and
- report

in order to make decisions for continuous improvement.

General statements that do not have the *who*, *what*, *when*, or *where* components are not likely to be evaluated in a way that helps you to determine whether you are accomplishing what you have planned to accomplish. Most measurable goals/objectives will include numbers.

- An example of a measurable objective is, “Students will exercise 15 minutes/day at school outside of physical education classes.”
- A weaker, less measurable objective would be, “Physical activity is available in afterschool programs.”

The first objective can be measured in a meaningful way that tells stakeholders what progress you are making toward improving wellness in the school community. It can also be strengthened later by adding more minutes as you work toward continuous improvement. The second is a “yes” or “no” that does not measure student participation and does not tell you whether there is value in a program.

If your policy’s goals and objectives do not tell you what you will be evaluating, consult with your Wellness Committee or other responsible unit requesting that they make the goal/objective measurable before you do your evaluation. The Resources on Evaluating Local Wellness Policies section in the Evaluation Aids and Examples (p 31) can help you develop measurable goals/objectives. Once you have a policy with measureable goal/objectives, you are ready to begin the evaluation process.

STEP 1

Select an objective/activity to evaluate

Your Local Wellness Policy has many goals. Select the *goal* that you want to evaluate, and then pick the *objective* or *activity* from the goal to evaluate.

A goal or objective may have several associated activities. Each of these activities contributes to meeting the goal/objective.

As described in the Introduction, your goal/objective must be *measurable* for you to move forward in your evaluation.

Example

Broad Goal: To provide opportunities for all students to improve their fitness levels outside of the school curriculum

Specific goal/Objective: Students will exercise 15 minutes/day at school outside of physical education classes.

Anatomy of the Goal/Objective:

Students – part of school community to be evaluated (who)

Will exercise – defined as continuous movement (what)

15 minutes/day – (how much)

at school – site of activity and of measurement (where)

outside of physical education classes – definition limits measurement (when)

Activity to evaluate: Before- and after-school walk around the track

DEFINITIONS

Activity: Specific action that you are taking toward meeting an objective; short term, limited action that has measurable components

Goal: Purpose that you hope to achieve, such as improving nutritional health or physical fitness; longer term aim based on ideas that may not be strictly measurable and may be an ideal that leads to continuous improvement

Measurable: Can be quantified to determine amounts of a specified unit; for example, time can be measured, i.e., is measurable

Objective: Effort that you have planned toward achieving a goal; mid-term plan that has measurable components that are achievable within a timeframe; this may also be a specific goal



Your Local Wellness Policy may have used the terms “goal” and “objective” interchangeably. If this is the case, your action plan (below) may list only a goal or an objective. Goals, objectives and activities can all be measurable.

Your plan may have used objectives to describe activities. If this is the case, your action plan (below) may list only an objective to evaluate instead of listing separate activities.

Don’t be concerned if you have only a goal listed. If the goal is measurable (see the Introduction and Anatomy of the Goal/Objective), you are ready to start your evaluation.



ACTION PLAN

Goal that you will evaluate:

Objective that you will evaluate:

Activities that will be included under the goal/objective:

STEP 2

Select your measurement type

You can measure your activity several ways. The way that you measure your activity determines the type of information that you get.

Process measures tell you about resources that you are using. These are important later when you show how you have used your current resources or communicate needs for additional resources.

Outcome measures tell you what happens when you implement an activity. If this is a new activity that you are trying out, you will have an outcome measure; this measure will give you an idea of whether the activity is likely to be successful for your school site or district.

If you have an activity that is ready to be fully implemented, you will want to make an *impact measure*; this measure will tell you how much of your population you have reached and/or how close you are to your goal/objective.

Outcome measures and impact measures are similar. The difference is looking at the total potential participants (impact) versus looking at the activity of only those who participate (outcome).

Example

Activity to evaluate: Before- and after-school walk around the track

Potential process measures:

- Resources used for implementation of the activity
- Facility use: total time and number of times in a week that the track was made available before and after school

Potential outcome measures:

- Number of students who are able to participate
- Minutes of walking time for students

Potential impact measures:

- Number of students who participate compared to the number of potential participants
- Number of students who walk an average of 15 minutes/day compared to the number of potential participants

DEFINITIONS

Impact measure: Measurement that reflects the extent of change in the total student/staff/community population; examples include the total level of participation by students/staff/community, the percentage reached of a target measure, etc.

Outcome measure: Measurement that evaluates a result of an activity; examples include number of miles walked by a student or faculty member, change in endurance, number of whole grain servings selected from a line, etc.

Process measure: Measurement that evaluates resources that are available to use; examples include personnel time, facility use, class sessions, supplies, etc.

BEST PRACTICE

In most cases it is useful to select both a process measure and either an outcome or impact measure. This allows you to communicate both resource use and progress toward your goal/objective.



ACTION PLAN

Activity that you will evaluate:

What type(s) of measures will you use?

STEP 3

Determine what you will measure

What you measure needs to align with your goal. It should be directly related to goal progress. If your goal specifies minutes of activity, then it is describing one of the measures that you will need – minutes. Other measures, such as facility use, gender of participants, etc., may help to explain your goal, too.

Example

Activity to evaluate: Before- and after-school walk around the track

These are examples of what you might choose to measure. You do not have to use all potential measures to evaluate your activity. Choose the measures that are do-able and are most useful to you.

Process measure:

Facility use: Total time and number of times in a week that the track was made available before and after school

Impact measures:

- Number of students who participate compared to the number of potential participants
- Number of students who walk an average of 15 minutes/day compared to the number of potential participants

TIP

These are examples of factors that you might measure. There is a more comprehensive list in the Evaluation Aids and Examples, List of Potential Factors to Measure (page 32). These are examples only. You can develop your own factors to measure. The factors that you measure should be items that help you to determine whether you are meeting your goal and what resources you are using to meet your goal.

Potential process measures:

- Resources
 - Cost of equipment and supplies
 - Personnel time and oversight, amount and/or cost
- Steps taken toward implementation of goal/objective
 - Responsibilities assigned
 - Timeline created

Potential outcome and impact measures:

- General
 - Number of participants in an activity (may also record grade level, gender, participants in extramural sports, etc.)
 - Percentage of actual participants to potential participants
- Nutrition education
 - Knowledge
 - Food choices and behaviors
- Physical Fitness
 - Knowledge
 - Fitness choices and behaviors



ACTION PLAN

Process measure(s), if applicable:

This aligns with the goal because:

Outcome measure(s), if applicable:

This aligns with the goal because:

Impact measure(s), if applicable:

This aligns with the goal because:

STEP 4

Select a data collection tool

Data collection tools include:

- Checklists
- Observation forms
- Surveys or questionnaires
- Participation logs and sign-in sheets
- Pedometers or other measuring devices
- Records kept by administrative staff, such as calendars

You may already have some tools available to you. For example, the process measure on times and days that the school track is available may be on the school calendar.

In other cases you may need to find or develop a tool to collect your data. You may need to adapt tools to your use by changing, adding, or deleting questions or other components.

You want to have a tool that meets YOUR needs and that is not too hard to use. It may be tempting to collect more information than you need, but that takes a lot of time, both for collection and analysis. Keep the tool as simple as possible.

Seek input and approval for your tool from your Wellness Committee. You need to have your tool approved by an administrative authority, such as your principal or superintendent. This will help with cooperation during your data collection. Tools that record individual health data must meet specific legal requirements to protect student rights.

Example

Activity to evaluate: Before- and after-school walk around the track

Process measure:

Facility use: total time and number of times in a week that the track was made available before and after school

Potential Tool: Calendar or other record kept by administrative staff

Impact measures:

- Number of students who participate compared to the number of potential participants
- Number of students who walk an average of 15 minutes/day compared to the number of potential participants

Potential Tools:

- Participation log at track entrance
- Observation form to record counts of students who enter track
- Survey to ask students to record their track use before or after school

BEST PRACTICE

If you are planning to make comparisons within your district or with other districts or to standard values, you will want to be sure that the tool that you use is comparable to the tools that they used.

EXAMPLES OF TOOLS

Examples of tools, including a checklist, an observation form, a survey and participation log, are available in the Evaluation Aids and Examples (page 30). These are just examples. You will want to modify them for your use.

Whatever tool you choose, you will want to carefully consider how you will use it to collect your data. The better the tool, the better the data, and the better the decisions that you can make regarding your policy.

TIP

Surveys may take some additional time to develop and analyze, but they can provide a lot of information in a short time.

MORE INFORMATION ON DEVELOPING FREE ONLINE SURVEYS

Free survey tools are available to help you develop, distribute and analyze surveys. Some tools are free for limited surveys, i.e., a certain number of questions or a certain number of respondents. You will need to check out the websites for their current offerings.

Survey Monkey ®: <http://www.surveymonkey.com>

Kwik Surveys ®: <http://kwiksurveys.com/>



ACTION PLAN

What tool(s) will you use? Include a copy of your tool, if it is a checklist, observation form, survey, or participation log/sign-in sheet

STEP 5

Collect your data

You will usually need to collect data several times during your evaluation period. This is also called *monitoring*. A single snapshot is not a very good measure of what is happening throughout the school year. At a minimum you would collect data at the beginning of the school year (or when an activity is introduced) and at the end of the school year to see progression. Collecting data several times during the school year gives you a better picture of what is happening, especially for activities that may be seasonal.

It is always better to measure, record, and verify. For example, you might think that a school track is accessible every day before school, but it would not be accessible during teacher workdays, inclement weather, etc. Verification gives you more accurate data.

Making measures more than one way can be helpful, too. For example, you might collect most of your data with student self-reports on logs or surveys and *validate* those findings with a once-a-month observation.

Example

Activity to evaluate: Before- and after-school walk around the track

Process measure:

Facility use: total time and number of times in a week that the track was made available before and after school

Tool: Calendar or other record kept by administrative staff

Mark the open track days on the calendar.

Verify that the track was open on days that were marked on the calendar. You may need to check with the track coach to be sure that the times are accurate. If inclement weather made it necessary to cancel track time, note that, too. A standard month of before and after school track access would be about 40 potential time slots. School sports teams may have claimed some of the after-school slots, and some of the slots may have been cancelled by rain, snow, or other inclement weather. The total number of accessible times will be important to know because it helps to define your resource availability.

Impact measures:

Number of students who participate compared to the number of potential participants

Number of students who walk an average of 15 minutes/day compared to the number of potential participants

Collect information in a participation log at the track entrance. The participation log gives you an advantage of being able to track individual students or to simply count the number of students who sign-in for a session. Tracking individual students can be very time-consuming, but it allows you to know how many different students have participated in a time period. For example, you may average 45

Collect your data (continued)

students/session, but, during a given month, this may represent 346 different students.

Use an observation form to record counts of students who enter track. This can be a simple hash mark for each student who enters the track. You can use this method to track the number of students/session, but you cannot track individual students using this method unless the recorder knows each student.

Use a survey to ask students to record their track use before or after school. This method is a self-report. It has some advantages, though. You can ask students questions about their participation, such as how many times a week they participate, the time of day they participate, how many laps they walk, how they feel about participating, whether they walk as an individual or with a friend or group. You may also ask them what limits their participation to help you improve their access. Surveys may take some additional time to analyze, but they can provide a lot of information in a short time.

DEFINITIONS

Monitor: To check a measurable unit regularly to track progress

Validate: To confirm

BEST PRACTICE

It is good to do a practice run with your tool to be sure that it works for you. If you have problems during your practice run, you can make changes to the tool before your “real” data collection.



ACTION PLAN

How often will you collect data?

Will you collect data in different ways? If so, how will you use these ways to validate your findings?

What will you do if the data are not in agreement?

STEP 6

Analyze the collected data

There are many ways to analyze data. Basically, you want to describe what your population, usually students, has done. This is usually reported as *frequencies* – either the number of students in categories or the *percentage* of students in categories. These numbers are called descriptive statistics because they describe what you have measured. This is what you will typically need in your evaluation. There are other statistical tests that can describe relationships among measures, but these are more complicated and are beyond the scope of this guide.

For example, you may have two categories – individuals who have participated in an activity and individuals who have not participated in the activity. This would be the simplest division of students. You could just report the number of students who participate, but this is an incomplete picture because it does not tell you how many students were possible, i.e., *potential* participants.

To give a better picture you could report the number of students who participated and the number of students who did not participate. You can do this with the *actual* number of participants or as a percentage of the total potential participants.

The following are examples of ways that you might examine data for an activity that occurs three times during the school year. Only the values are given below. The calculations are detailed in the Evaluation Aids and Examples, Evaluation Math (p 38).

For a single offering of the activity, you might describe the frequency of participation. For example, if there are 236 students on a campus and 42 of them participated, you would have 18% of potential participants participating. In describing the percentage of potential participants you are making an impact statement.

Example

Activity to evaluate: Before- and after-school walk around the track

Process measure:

Facility use: total time and number of times in a week that the track was made available before and after school

Determine the actual access potential for the track. From the notations on your calendar tool you can count the number of before-school slots available to walkers and the number of after-school slots available to walkers. For example, in a semester (September – December) of 70 potential track days (140 potential track times counting before and after school), you may find that 15 before-school times were cancelled because of weather and 35 after-school times were cancelled because sports teams needed the track. This means that you had 140 potential track times or 64% actual access by the student body (75% before-school and 30% after-school).

Impact measures:

- Number of students who participate compared to the number of potential participants
- Number of students who walk an average of 15 minutes/day compared to the number of potential participants

Determine student participation.

- Using participation logs, you can count the number of participants in each session. To compare this value to your potential participants, you would determine the percent participating. For example, if you averaged 45 students/session and your school had 725 students, your average percentage participation/session would be 6%.

Analyze the collected data (continued)

Average participation would tell you the typical participation level. For example, if participation over three months is 18%, 24%, and 21%, the average participation would be 21%.

Total student participation describes the number of different students who participate. For example, if you have 142 different students who have participated in one or more of the activities, your total student participation would be 60%.

Individual student participation can be described further as the number of times students have participated. For example, you might have 84 students who have participated in one activity, 39 students who have participated in two activities and 19 students who have participated in all three activities. This participation can be reported two different ways. It can be reported as a percentage of total potential participation or as a percentage of students who participated in at least one activity.

- As a percentage of total potential participants (236 students) 36% participated in one activity, 17% participated in two activities, and 8% participated in three activities.
- As a percentage of the 142 participating students, 59% participated in one activity, 27% participated in two activities and 13% participated in three activities.

It is important to determine how you want to analyze your data, i.e., what questions you want to answer. You can analyze data different ways to make different points. For example, in the above case, few students participated in all three activities, but you cannot tell this from average participation.

You may also want to compare your results to a *standard* value, such as a national or state recommendation or requirement. In many cases this standard value may be the basis for your goal/objective.

From your participation log you can count the number of different students who have participated. Although this would be cumbersome, the data are useful because they give a different picture of participation. You can report these data as the total number of participants or as the percentage of potential participants. For example, if 346 students were recorded on the participation logs at least once and your school had 725 students, your percentage participation would be 48%.

You can add to your evaluation by determining the number of students who participated at least 5 times, at least twice a week, etc.

- Using student survey data, you could potentially determine the number of students who report walking only before school, the number of students who report walking only after school, and the number of students who report walking both before and after school. You could also determine the percentage of the potential participants in each category and compare those percentages to determine whether there is a difference in before-school participation and after-school participation.
- Using observation forms you can count the number of students that you observe walking and compare this value to your potential participants, just as you did with the participation logs.
- If you have a student self-report (either participation logs or survey data) and observational data, you can verify your data. Don't expect the values to be the same, but they should be close.

Use the same process to determine the number of students who walk an average of 15 minutes/day compared to the number of potential participants.

Note: Your survey may have additional information that may help you to make

Analyze the collected data (continued)

It is important to recognize the limitations of your data. The above example does not give reasons that students did not participate in all three activities.

- For the second activity, there may have been incentives, such as t-shirts for participants. These incentives may not have been offered for other activities.
- For the second activity, there may have been requirements that sports teams participate.
- During the first activity, there may have been inclement weather, such as rain or a very cold day.
- School busses may have been late arriving, limiting the participant base, even though the potential base was 236 students.

The above example does not describe the composition of the student participants. We do not know grade level or gender, for example.

decisions. For example, students can have the opportunity on the survey to tell you how they feel about their walking participation and whether they walk with friends or groups. This information doesn't describe progress toward your goal or objective, which is the primary reason for doing your evaluation. However, it does help you to make decisions toward continuous improvement.

DEFINITIONS

Actual: Number of individual or units measured or counted

Frequency: Number of units or observations in a category

Participation: Act of sharing activities of a group

Percentage: Part of a whole expressed as hundredths; for example, 10 of 50 = 20 of 100 or 20%; calculation used to make comparisons easier

Potential: Total number of individuals or units possible

Standard: A reference point that serves as a basis for comparison

BEST PRACTICE

Check to be sure that you can answer your questions with the data that you are collecting and your method of analysis. If you cannot answer your questions with your action plan, you will need to revise your action plan to collect the data that you need and to analyze it so that you can answer your questions.

TIP

When you are describing your total participant group, your percentages should add up to 100%. They may be one percent different because of rounding, but they should be close to 100%. If they are not, you have a math error.

ONLINE CALCULATORS

There are online calculators available to help you calculate percentages. These include calculators at <http://www.percentagcalculator.net/> and <http://www.onlineconversion.com/percentcalc.htm>.



ACTION PLAN

What questions do you want to answer with your data?

How will you analyze your data in order to answer your questions?

How will you determine potential participation, accounting for bus transportation, school schedules, and other factors that may affect student participation?

STEP 7

Determine what your results mean

The data that you have collected and analyzed should answer some of the questions that you have related to your goal. It should tell you where you are in relation to your goal or to a specific objective under your goal or to an activity that supports your goals/objectives.

When you think about your results you may also have questions that you cannot answer. You may want to build on your evaluation tool to measure these in your next evaluation period.

- Your observation may have been that you had more boys or more students from older grades participating in an activity. If you did not gather this information this year, you may want to collect it next year. It could help you determine barriers to participation by girls or students in lower grades.
- You may want to evaluate additional activities related to the goal for next year to get a better picture of how close you are to meeting the goal.

In addition to answering specific questions about your progress toward meeting your goal, your information should help you make recommendations for further action. To make a good recommendation, you will need to consider such questions as:

- What successes did you see?
- What are barriers to meeting the goal's target?
- What resources do you need to meet your target?
- What do you need to do for continuous improvement, especially if you have met your current goal?

Example

Goal/objective: Students will exercise 15 minutes/day at school outside of physical education classes.

Describing successes:

Success might be increasing student participation, including access for an additional group or improving the outcomes for those who are already participating.

Success might be reducing the cost of participation or improving a participation venue.

Describing barriers:

Riding a bus could be a barrier to participation if the bus schedule does not allow participation by some students. In the example above, the potential population was described as every school student. However, some students who ride busses may not have an opportunity to walk the track before school or after school. If the potential population is described as students who do not ride a bus, the average participation by potential students will increase.

Since the track was only accessible about half of the time for students who were participating in track walking, adding track facilities may increase participation. You can use information from a student survey to help determine this, if you ask questions about why students do or do not participate.

Clarifying the goal:

If a goal target is 15 minutes/day, you need to consider two components – length of time and unit of participation. Having students walk an hour and fifteen minutes one day a week, averaging 15 minutes/day, does not meet the intent of the goal.

Determine what your results mean (continued)

If the intent of the goal target is to burn a minimum number of calories, this would need to be specified in some way, perhaps by describing the intensity of exercise or by giving a list of activities that meet the goal definition. In this case, running, jumping rope, playing basketball, and swimming would likely meet criteria, but playing baseball likely would not.

Thinking about what your results mean is a very important part of evaluation. It is a major step toward making recommendations for continuous improvement.

TIP

It is helpful to discuss your analysis with others, perhaps your Wellness Committee, to describe your major successes and barriers. Evaluation does not just describe problems. It also celebrates successes.



ACTION PLAN

How will you determine what your results mean?

Who/what groups will you meet with to determine the meaning of your results?

How will you alter your evaluation for the next cycle to capture information that will help you to reduce barriers to future success?

STEP 8

Communicate your results

It is important to target your communication. This means that you may need to tell the same story, or parts of it, different ways to different groups. It is helpful to have individuals from your target group review your communications before you release them. They may find problems with the communications, even if there are no actual errors.

Make your communication critical and concise. Make it possible for individuals to ask questions. At meetings, this means leaving time for questions from the audience. For print materials, Web announcements and other venues, this may mean giving your audience a number to call, an email address to write or some other method of reaching the appropriate person. You may also set up question boxes or have open appointment times to meet with individuals who have questions. People who have questions are interested in what you are doing and may want to become more involved. They may also have good ideas about additional evaluation.

The content of your communication has several parts:

- Context – who, what, when, etc.
- Process – tools and analysis
- Findings
- Recommendations
- Illustrations

Example

Goal/objective: Students will exercise 15 minutes/day at school outside of physical education classes.

Communication venues and audiences:

- School board meeting
- Staff meeting
- PTA/PTO meeting
- Students
- Community

Communication instruments:

- Presentation – all groups
- Brochures – all groups
- Bulletin board or poster – PTA/PTO, students
- Radio/television interview – community

The school cafeteria is an especially good place to communicate both availability of activities and current status of activities. This can be done with bulletin boards/posters, table tents, and menus.

Presentation software can help you develop slides that can be presented to an on-site audience, converted into bulletin boards or posters, and shown in a television interview.

Sample slides for a presentation based on evaluation of this goal/objective are in the Evaluation Aids and Examples, Examples of Presentation Slides (page 39). Note the following:

- The presentation includes some context by giving the goal, objective and activity. You can make this detailed for a first presentation and shorter for later presentations to the same audience. It is always important to provide context for a group meeting because members may change, i.e., you may have new school board members, new staff, new parents. It

Communicate your results (continued)

may not be new to you, but it will be new to some.

- Graphics make the slides more enjoyable to view, but they should not detract from your message. Note the difference in presentation for narrative (word) slides and chart slides. Chart slides have an advantage in presentations because you don't read them to your audience; instead you describe them.
- Many of the slide titles are questions. This engages the *stakeholder* and tells them what they should learn from your presentation or bulletin board/poster.

DEFINITIONS

Stakeholder: Individual or group that has an interest in the development, implementation and impacts of a policy goal/objective

TIP

To make the best use of your time, plan to re-purpose components of your communication in several venues. For example, you can use a presentation slide as a bulletin board or poster, if you enlarge it sufficiently. Many different companies, local and online, can enlarge and print your posters. Check with your local print shop or search for an online printer using the term “print posters” in your search box.

RESOURCES FOR DEVELOPING A PRESENTATION

PowerPoint is proprietary commercial software that you can use to develop slides. PowerPoint is a component of Microsoft Office. Information on PowerPoint, including help with developing effective slides, is available at <http://www.office.microsoft.com/en-us/powerpoint/>. You may have PowerPoint available to you as a component of your office software.

Google Docs can also be used to develop a presentation. Google Docs is free and is available at <http://www.google.com/google-d-s/presentations/>. Information on using the presentation software at Google Docs is available at this site, too.



ACTION PLAN

What stakeholders will you target for your communications?

What communication formats will you use?

What community media outlets will you use?

What in-school outlets will you use?

Determine your communications' budget so that you will know what is possible in terms of bulletin boards, pamphlets, etc.

Glossary

Activity: Specific action that you are taking toward meeting an objective; short term, limited action that has measurable components

Actual: Number of individual or units measured or counted

Frequency: Number of units or observations in a category

Goal: Purpose that you hope to achieve, such as improving nutritional health or physical fitness; longer term aims based on ideas that may not be strictly measurable and may be an ideal that leads to continuous improvement

Impact measure: Measurement that reflects the extent of change in the total student/staff/community population; examples include the total level of participation by students/staff/community, the percentage reached of a target measure, etc.

Measurable: Can be quantified to determine amounts of a specified unit; for example, time can be measured, i.e., is measurable

Monitor: To check a measurable unit regularly to track progress

Objective: Effort that you have planned toward achieving a goal; mid-term plan that has measurable components that are achievable within a timeframe

Outcome measure: Measurement that evaluates a result of an activity; examples include number of miles walked by a student or faculty member, change in endurance, number of whole grain servings selected from a line, etc.

Participation: Act of sharing activities of a group

Percentage: Part of a whole expressed as hundredths; for example, 10 of 50 = 20 of 100 or 20%; calculation used to make comparisons easier

Potential: Total number of individuals or units possible

Process measure: Measurement that evaluates resources that are available to use; examples include personnel time, facility use, class sessions, supplies, etc.

Stakeholder: Individual or group that has an interest in the development, implementation and impacts of a policy goal/objective

Standard: A reference point that serves as a basis for comparison

Validate: To confirm

Evaluation Aids and Examples

Aid	Page
Resources on Evaluating Local Wellness Policies	31
List of Potential Factors to Measure	32
Example of a Checklist: What Do You Do for Exercise?	33
Example of an Observation Form: Observation of Track Walking Before or After School	34
Example of a Survey: My Track Walking Time	35
Example of a Participation Log: Sign In, Please!	37
Evaluation Math	38
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Resources on Evaluating Local Wellness Policies

Action for Healthy Kids Wellness Policy Tool: This tool has an overall plan for creating, implementing and evaluating Local Wellness Policies. Available at

<http://www.actionforhealthykids.org/for-schools/wellness-policy-tool/>

The section on evaluating wellness policies has a good overview of steps required to evaluate overall policies. Available at

<http://www.actionforhealthykids.org/for-schools/wellness-policy-tool/wellness-tool-8.html>

You can register to participate in their Wellness Policy Tracker at

<http://www.a4hk.org/policymonitor/trackerregister.php>.

Wellness School Assessment Tool (WellSAT) is a product of the Rudd Center for Food Policy and Obesity at Yale University. It is a standardized, quantitative tool for assessing the comprehensiveness and strength of school wellness policies. It is not designed for assessing the implementation of wellness policies. Available at

<http://wellsat.org/>

Center for Disease Control (CDC) School Health Index (SHI): Self-Assessment & Planning Guide. The SHI is a planning tool that can help schools improve their health and safety policies. It focuses on comparing the school's current practices with best practices and helping to establish an improvement plan. It includes physical activity and health. Available at

<http://www.cdc.gov/healthyyouth/shi/>

List of Potential Factors to Measure

This is not a comprehensive listing. It is a list of examples. You can develop your own factors to measure, based on your goals/objectives.

Potential process measures:

- Resources
 - Cost of equipment and supplies
 - Personnel time and oversight, amount and/or cost
 - Time available for activity
 - Accessibility to equipment, i.e., time that equipment is available
- Steps taken toward implementation of goal/objective; for examples:
 - Responsibilities assigned
 - Timeline created
 - Resources identified
 - Communication plan in place
 - Comparison of implementation plan to actual progress

Potential outcome and process measures:

- General
 - Number of participants for an activity
 - Percentage of actual participants to potential participants
 - Minutes of participation, individual (average and range)
 - Minutes of participation, total group
 - Self-reported attitudes and changes, students and staff
 - Attitudes toward program
 - Health behaviors
 - Student attendance
 - Ability to concentrate in class

Nutrition education

- Knowledge
 - Demonstrated ability to read and use Nutrition Facts Panel information
 - Demonstrated ability to read and use menu information
 - Demonstrated knowledge of foods to increase, such as fruits and vegetables, whole grains, and low-fat and fat-free dairy products
 - Demonstrated knowledge of food components to decrease, such as sodium

- Food choices and behaviors
 - Number of servings of fruit, chosen and consumed
 - Number of servings of vegetables, chosen and consumed
 - Number of servings of whole grains, chosen and consumed
 - Number of servings of low-fat and fat-free dairy products, chosen and consumed
 - Number of different fruit choices in a week, chosen and consumed
 - Number of different vegetable choices in a week, chosen and consumed
 - Number of foods that students can prepare for themselves
 - Number of foods that students report preparing for themselves in a week

Physical Fitness

- Knowledge
 - Demonstrated knowledge of the minimal amount of activity needed per day
 - Demonstrated knowledge of higher calorie vs lower calorie activities
- Fitness choices and behaviors
 - Number of different physical activities engaged during the week
 - Minutes of participation in physical activity, daily, weekly
 - Distance walked or run
 - Calories burned in exercise
- Other
 - Curricular time for physical activity
 - Groups or teams formed outside of extramural sports
 - Participant injuries, number of participants and percentage of participants
 - Level of fitness or physical assessment
 - Fitnessgram®
 - BMI
 - Endurance



Example of a Checklist

What Do You Do for Exercise?

Which sports or games have you played this month? Check the sport and where you played it. If you played it at school and outside of school, check both.

	At School	Outside of School
Baseball	<input type="checkbox"/>	<input type="checkbox"/>
Basketball	<input type="checkbox"/>	<input type="checkbox"/>
Football	<input type="checkbox"/>	<input type="checkbox"/>
Dancing	<input type="checkbox"/>	<input type="checkbox"/>
Golf	<input type="checkbox"/>	<input type="checkbox"/>
Gymnastics, yoga, cheerleading	<input type="checkbox"/>	<input type="checkbox"/>
Jumping rope	<input type="checkbox"/>	<input type="checkbox"/>
Running for track	<input type="checkbox"/>	<input type="checkbox"/>
Soccer	<input type="checkbox"/>	<input type="checkbox"/>
Swimming	<input type="checkbox"/>	<input type="checkbox"/>
Tennis	<input type="checkbox"/>	<input type="checkbox"/>
Walking for distance, such as around a track	<input type="checkbox"/>	<input type="checkbox"/>
Other: Please tell us what you did.	<input type="checkbox"/>	<input type="checkbox"/>

Think about all of your sports and games. In total, about how much time did you spend each day on them? _____ minutes each day

Notes:

- This checklist can help you to determine the range of activities for student participation. To develop your own checklist, you might want to have a student focus group describe their activities. That way, you can include activities that you may not have considered.
- This is a student's self-report. Self reports are not always accurate, but they can provide information that you cannot collect otherwise.
- This checklist can help you to see what facilities might be useful investments to increase physical activity or areas that might have potential to engage more students.
- Active time is hard to measure. There is a lot of "standing time" in most sports. For example, baseball players are not moving much of the time. Also, students may not measure their time. This measure of time is not very accurate.
- You might want to make the checklist form more inviting with clipart or colored paper.

Example of an Observation Form

Observation of Track Walking Before or After School

Date: _____

Beginning time: _____

Ending time: _____

Observer: _____

Indicate the number of participants in the right column

Participants

Number of students participating	
Number of boys participating	
Number of girls participating	
Number of students who walk at least fifteen minutes	
Number of students who walk at least once around the track	
Number of students who walk at least twice around the track	
Number of groups or teams walking together around the track	

Conditions that may have affected participation, such as inclement weather:

Notes:

- This observation can help to quantify the number of participants. You can record the number of participants, and you can compute the percentage of actual participants to potential participants. You can compare the number/percentage of boys to girls to describe the participation further.
- If you complete this observation once a week, twice a month, or several times a semester, you will be able to show trends in participation, such as greater participation during some times of year.
- Your objective is written in minutes, so you need to complete item 4 on the checklist to evaluate your objective. The other items can help you with your future plans and with explanations.
- Using the information on the number of times students walked around the track, you can make a rough calculation of the total activity of the group.
- Recording the number of groups or teams walking together can help to show engagement and may predict continuing effort, since peer motivation may increase participation.
- If you have a large number of participants, it may be difficult for one observer to count the participants and determine the number of times they circle the track. Consider having helpers or combining this data with participation logs (self-reports).

Example of a Survey

My Track Walking Time

Please tell us about your participation in the track-walking program. We'll use the information to help us improve. Please check your answer.

Example of a dichotomous (yes/no) question:

Did you walk around the track at least once so far this year?

☐ Yes

☐ No

Examples of multiple choice questions:

When do you walk around the track?

☐ Before school

☐ After school

☐ Both before and after school

☐ I do not walk around the track.

How many times a week do you usually walk around the track?

☐ None

☐ One

☐ Two

☐ Three

☐ More than three

How many minutes do you usually walk?

☐ Less than 10

☐ 10 – 14

☐ 15 minutes or longer

How many laps around the track do you usually make?

☐ None. I do not walk around the track.

☐ One

☐ Two or three

☐ More than three

Which of the following would likely increase the number of laps that you make? Check all that apply.

☐ Getting to school earlier

☐ Having a friend or a group to walk with

☐ Participating in a contest to earn prizes

☐ Other, please describe:

☐ Nothing. I do not walk around the track.

Example of rating scale question:

If you have walked around the track, which of the following terms best describes your last experience in walking the track? Please circle your answer.

☐ Very pleasant

☐ Somewhat pleasant

☐ Neither pleasant nor unpleasant

☐ Somewhat unpleasant

☐ Very unpleasant

Example of open-ended question:

On days that you do not participate in the track walking, please state your reason to not participate?

My Track Walking Time (continued)

Notes:

- Writing focused, simple questions will help you to get the information that you need. There are many types of questions. In this example, we have included dichotomous questions (questions with two possible answers), multiple choice questions (questions with three or more different categories), rating scale questions (measure attitudes), and open-ended questions that ask more in-depth questions.
- Survey questions may seem easy to write, but they can be tricky. It is good to have several people from your participant group read your questions and tell you how you might improve. Sometimes it may be difficult to answer a question as written.
- Be sure that your tool collects information in the form (units of measurement) that you need.
- Using an online survey system can help you link questions so that the participant only sees questions that apply to them. For example, if a student answers “no” to the first question, the student would not see the multiple choice or rating questions. They would only see the open-ended question.

Example of a Participation Log

Sign In, Please!

Date: _____

Name	Minutes walked	Number of Laps around Track

Notes:

- This is a student's self-report. Self reports are not always accurate, but they can provide information that you cannot collect otherwise.
- You may get some made-up names. This does not matter in terms of collecting group data. You can just count "Mickey Mouse" as a participant.
- Depending upon your group, be prepared to have some data that you cannot use. No student is going to do 400 laps around the track before school starts. Carefully consider your potential maximum before you put out the participation log and eliminate unreasonable records.
- If you have a large number of participants, you may want to have several different sign-in stations.
- You might want to make the participation log more inviting with clipart or colored paper.
- Combining participation logs with sporadic observation can give you more confidence in your data.
- While it takes time to record the number of different students who have walked, this can be valuable data to show level of participation. Another way to do this is to give each student a token to put in a collection box one time that they have participated. Then you can count the tokens instead of looking for names.

Evaluation Math

Percentage of potential participants:

If there are 236 students on a campus and 42 of them participated in an activity, you would have:

- 42 participants and
- $[42/236][100] = 18\%$ of potential participants

Average Participation (typical participation level):

If you have an activity that occurs each month, the participation over three months could be:

Month 1: 18%

Month 2: 24%

Month 3: 21%

$[18+24+21]/3 = 21\%$ average participation

Total student participation (number of different students who participate):

If you have 142 different students who have participated in an activity that has occurred three times during the year and 236 students on campus, you would have:

- 142 participants overall
- 236 students on campus
- $[142/236][100] = 60\%$ total student participation

Note that some students may have participated more than one time, but this is not considered.

Individual student participation can be described further by the number of times students have participated. This may be described for the total number of students on campus or for the group of students who have participated in at least one activity session. For example, if you have

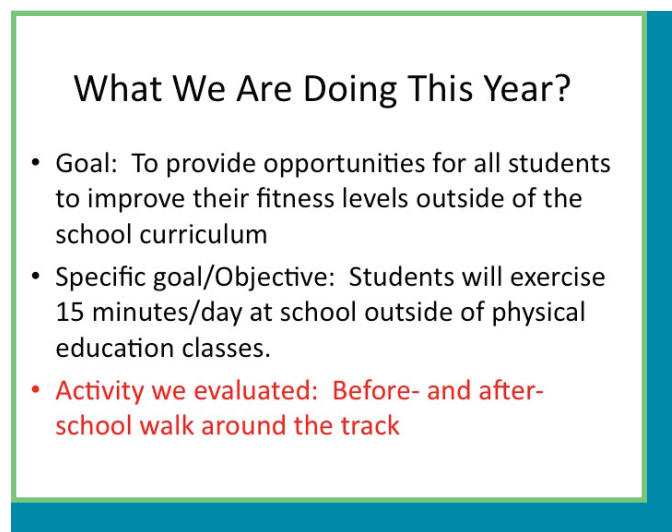
- 84 students who participated in one activity session
- 39 students who participated in two activity sessions
- 19 students who participated in three activity sessions
- 236 students on campus
- 142 participants overall (number of different students who participate)
- $[84/236][100] = 36\%$ of students on campus participated in one activity session
- $[39/236][100] = 17\%$ of students on campus participated in two activity sessions
- $[19/236][100] = 8\%$ of students on campus participated in three activity sessions
- $[84/142][100] = 59\%$ of participants participated in one activity session
- $[39/142][100] = 27\%$ of participants participated in two activity sessions
- $[19/142][100] = 13\%$ of participants participated in three activity sessions

Examples of Presentation Slides

Slide 1: This is a typical title slide. You may want to include the name of the presenter or the name of the group that planned and implemented the evaluation.



Slide 2: This slide is a context slide. It tells the audience what you will be describing and how it fits into your Local Wellness Policy.



Examples of Presentation Slides

Slide 3: This slide tells the audience what you did. This is important because it tells them the source(s) of your information.

How did we evaluate this activity?

- Determined when track was available
 - School calendar
 - Confirmed by principal and coach
- Recorded student participation
 - Student logs at track each day
 - Student surveys at the end of each semester
 - Observation once a month for validation

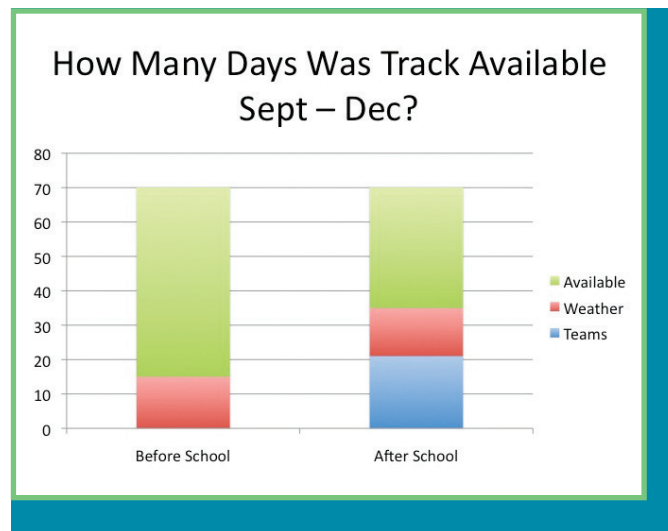
Slide 4: This gives your process data in narrative.

How Many Days Was Track Available Sept – Dec?

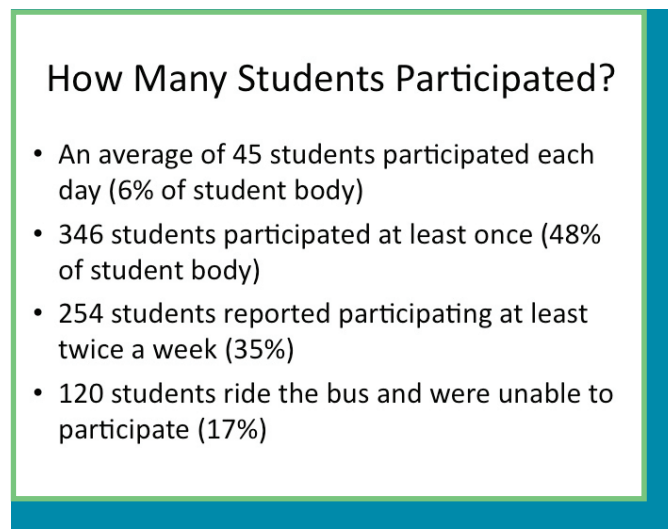
- Potential days – 70
- Potential times – 140 [70 before-school and 70 after-school]
 - Actual before-school times available – 55 (79%)
 - 15 days of inclement weather
 - Actual after-school times available – 35 (50%)
 - 14 days of inclement weather
 - 21 days used exclusively by sports teams
- Actual times available – 90 (64%)

Examples of Presentation Slides

Slide 5: This gives your process data as an illustrated chart. This is an alternative to the narrative format.

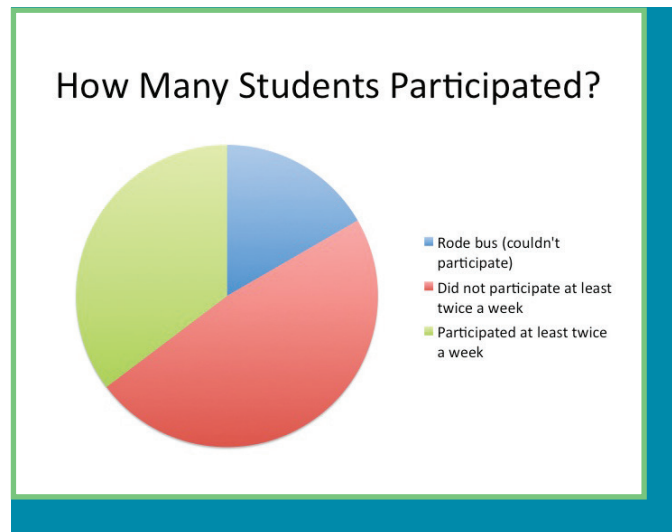


Slide 6: This is a potential impact slide. It is a narrative of how many students participated. It gives a lot of information in a small space and can replace slides 7 & 8, but it is not visually appealing.

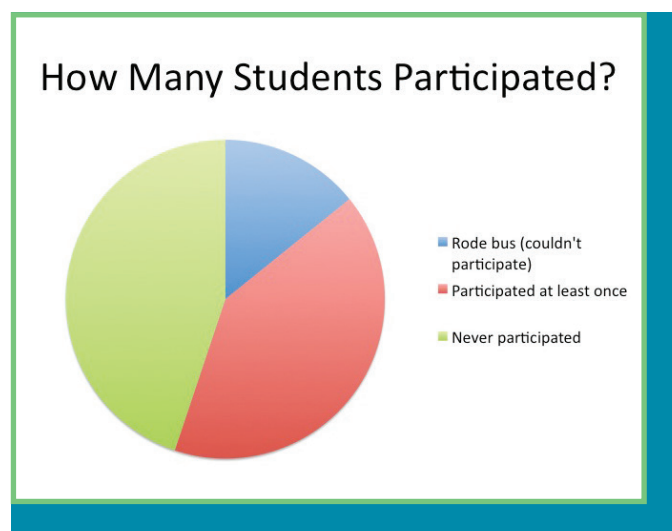


Examples of Presentation Slides

Slide 7: This is a potential impact slide in a pie chart. It has some of the same information as Slide 6, but it is a different format.

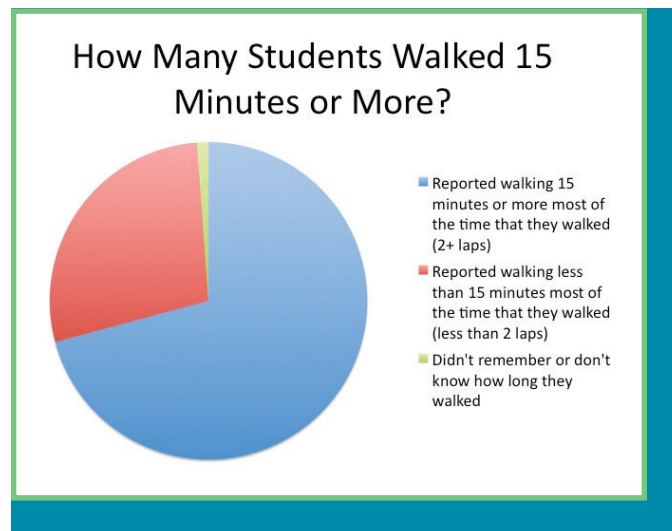


Slide 8: This is a potential impact slide in a pie chart. It has some of the same information as Slide 6, but it is a different format.



Examples of Presentation Slides

Slide 9: This is a potential impact slide in a pie chart. It focuses on the specific objective, i.e., walking 15 minutes outside of the school curriculum. Note that it is estimating the 15 minute walk time by comparing it to 2+ laps around the track.

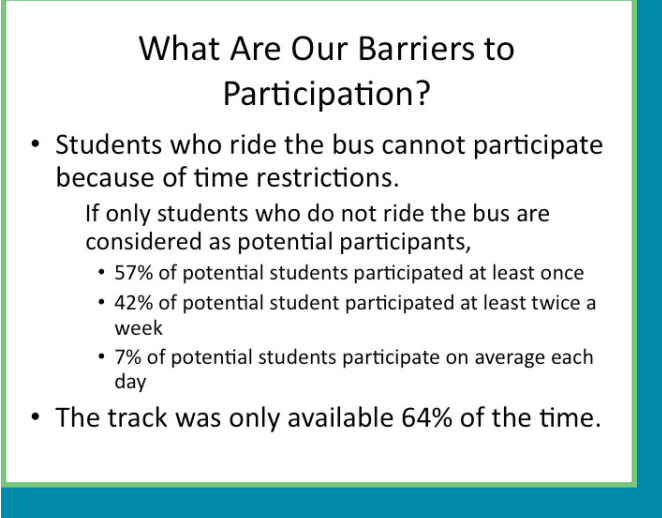


Slide 10: This slide gives the audience an overview of your successes. This is important, especially since some of those successes may be institutional efforts, such as the evaluation itself, which will not be recognized in other parts of the presentation.

- What Successes Have We Documented?
- We have implemented a low/no-cost program that benefits our students.
 - Over a third of our students walk the track for at least 15 minutes at least twice a week, exercising at least 30 minutes/week at school outside of our curriculum.
 - Our first evaluation is in place, and we will be able to use it as an example for evaluating other programs.

Examples of Presentation Slides

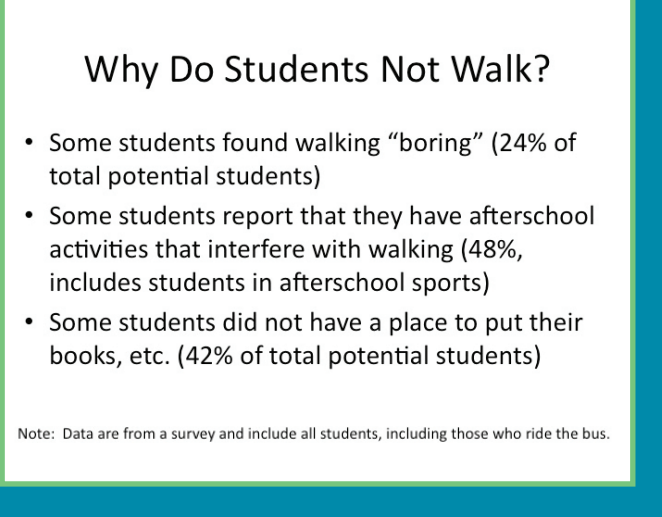
Slide 11: This slide gives the audience some information on barriers to meeting your objective. It will suggest improvements that may be made to increase participation, i.e., impact. These are barriers related to process, i.e., resources.

A presentation slide with a white background and a blue border. The title is "What Are Our Barriers to Participation?". Below the title is a bulleted list. The first bullet point is "Students who ride the bus cannot participate because of time restrictions." followed by a sub-point "If only students who do not ride the bus are considered as potential participants," which is followed by three more bullet points: "57% of potential students participated at least once", "42% of potential student participated at least twice a week", and "7% of potential students participate on average each day". The second main bullet point is "The track was only available 64% of the time." data-bbox="294 241 705 487">

What Are Our Barriers to Participation?

- Students who ride the bus cannot participate because of time restrictions.
 - If only students who do not ride the bus are considered as potential participants,
 - 57% of potential students participated at least once
 - 42% of potential student participated at least twice a week
 - 7% of potential students participate on average each day
- The track was only available 64% of the time.

Slide 12: This slide is a different view of barriers. It describes what participants have said about their constraints that may or may not be solvable by the school district.

A presentation slide with a white background and a blue border. The title is "Why Do Students Not Walk?". Below the title is a bulleted list with three points: "Some students found walking 'boring' (24% of total potential students)", "Some students report that they have afterschool activities that interfere with walking (48%, includes students in afterschool sports)", and "Some students did not have a place to put their books, etc. (42% of total potential students)". At the bottom of the slide is a note: "Note: Data are from a survey and include all students, including those who ride the bus." data-bbox="294 590 705 836">

Why Do Students Not Walk?

- Some students found walking "boring" (24% of total potential students)
- Some students report that they have afterschool activities that interfere with walking (48%, includes students in afterschool sports)
- Some students did not have a place to put their books, etc. (42% of total potential students)

Note: Data are from a survey and include all students, including those who ride the bus.

Examples of Presentation Slides

Slide 13: This is the “so what” of evaluation – recommendations for continuous improvement. These recommendations may be from the evaluator(s), the Wellness Committee or other groups who have reviewed the data.

What Are Our Recommendations?

- Outline another track or trail for student walkers to increase the number of available times for walking.
- Allow walking during lunch, if it doesn't interfere with physical education classes, to allow students who are bussed to participate.
- Find a way to protect personal items during walk time.
- Add other activities to increase interest.

Slide 14: These are additional ideas from the evaluator(s), the Wellness Committee and/or other groups that have reviewed the data. They may be beyond direct application of the evaluation data, but they are possibilities to discuss and consider.

Additional Thoughts

- Develop walking clubs. Student peers may increase participation by making it more interesting.
- Open the track on weekends to allow for longer walks and family/community participation.
- Enhance evaluation by determining participation by gender and class to try to target groups that are not participating.

Examples of Presentation Slides

Slide 15: Every activity includes a risk. This slide describes two issues that arose during the activity. The issues may be addressed as a part of continuous improvement.

Issues

- There were two injuries during the semester. Both involved students tripping and falling. The injuries were not major, but the clinic was not open.
- There was one argument when a group that was walking quickly intimidated two other students. Students reported the incident to the principal.



National Food Service Management Institute

The University of Mississippi
P. O. Drawer 188
University, MS 38677-0188
www.nfsmi.org
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