State of Arizona
Department of Education

Team Nutrition Grant

Arizona Healthy School Environment Model Policy
Implementation Pilot Study

February 2005
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I. Team Nutrition Grant Project

The Team Nutrition Grant Project began in 2003 with the goal to guide and assist schools to create and maintain a coordinated, comprehensive school health program. Such a program integrates a school’s child nutrition programs, with the classroom, the community, and entire school environment. A coordinated, comprehensive school health program (CSHP) can be implemented to create a healthy school environment through a “model” nutrition policy.

Using the USDA’s Food and Nutrition Service Team Nutrition’s Changing the Scene, A Guide to Local Action, the project proposed to implement the model at a state level by forming a state level coalition of key decision makers within the school environment. This coalition evolved into the Action for Healthy Kids Arizona State Team. A sub-committee of the Action for Healthy Kids Arizona State Team developed a draft Arizona Health School Environment Model for Piloting (see Appendix A).

A Team Nutrition Grant application was submitted to the USDA, Food and Nutrition Services for an opportunity to implement this project. The project received funding in late 2003.

Goals of the Team Nutrition Grant Project

1. To develop and place in action a state coalition of key state level partners surrounding the school environment
2. To develop a statewide “model” nutrition policy to create a healthy school environment in Arizona
3. To increase awareness and support for the Nutrition Task Force and the need for a statewide “model” nutrition policy
4. To promote, pilot, and evaluate the implementation of the “model” nutrition policy statewide
5. To increase statewide implementation of the policy using marketing and peer training of the pilot evaluation data and experiences.

The competitive USDA Grant to evaluate the model policy developed by the state coalition, Action for Healthy Kids, Arizona State Team provided funding for 8 schools, 4 elementary schools and 4 junior high and /or high schools, to pilot the model policy.

Pilot Schools

Thirty schools voluntarily applied to participate in the piloting of the model policy. A panel of members from the education community selected the pilot schools using specific criteria while scoring the grant applications using a rubric totaling 100 points. The 8 schools awarded mini-grants include:

- Harriet Johnson Primary School-Tucson Unified School District
- Stanfield Elementary School-Standfield Elementary District #28
Nutrition Model Policy Overview

As part of the grant requirements, the pilot schools implemented the most recent version of the policy during the fall semester of 2004. Pilot schools received a mini-grant of five to ten thousand dollars for their participation.

The model policy is divided into four primary sections;

1. Food Service Operation
2. Nutrition Education
3. Food Choices at School
4. Physical Education and Healthy School Environment

Sections 1 and 3 were required as part of the pilot study while sections 2 and 4 were suggested but not required. These last two sections were added after the schools had applied and been selected. However, each school was strongly encouraged to implement all 4 sections as each section added to the integrity of the model and school program.

To support the model pilot schools with sections 2 and 4 the Arizona Department of Education provided each school with nutrition and physical education curriculum in addition to funding received through the mini-grants.

The model policy states that all students shall possess the knowledge and skills necessary to make nutritious and enjoyable food choices for a lifetime. In addition, all school staff is encouraged to model healthy eating behavior as a valuable part of daily life. School leaders shall prepare, adopt, and implement a comprehensive plan to encourage healthy eating.
II. **Data Collection and Evaluation Methods**

As part of the grant requirements, the Arizona Department of Education evaluated the implementation of the Arizona Healthy School Environment Model at the pilot schools in three key ways. These include the collection of financial data, height and weight data and nutrition analysis of all foods offered during school hours.

**Financial Data**

Just mentioning a possible change to the contents of the school lunch menu, school store or vending machines makes most school administrators nervous as it could impact revenue collected from these services. In the past, removing soda from a vending machine in favor of water or products like Gatorade® was assumed to result in loss of revenue. Most schools depend on this revenue for many important school programs and it makes sense that administrators do not wish to put this revenue in jeopardy.

To determine if revenue will be impacted by implementing the model policy, key financial data was requested of each pilot school. Pre-implementation financial data was collected for two to three months prior to the model policy implementation and was collected for four months following model policy implementation. The financial form (see Appendix B) was completed monthly by each school and asks for information regarding program meals, student sales, al a carte sales, vending sales and any other food sales that occur during school hours.

**Height and Weight Data**

Nationwide, obesity in childhood is on the increase. Arizona has significant anecdotal evidence of increases in childhood obesity. However, school age children are not routinely weighed in school and no state agency requires collection and reporting of this information. Offering support to collect this information in the pilot schools and resources to complete the data collection and reporting is one step to determine the extent of childhood obesity in Arizona. By no means do we expect implementation of a model policy to generate significant and marked changes to childhood obesity in only 4 months. Rather, we use this opportunity to generate the interest in collecting this information and demonstrate the capability to report meaningful information.

Each school willing to collect height and weights on students and report the data pre-model policy implementation and again post-model policy implementation received a new standing scale for their nurse’s office. In addition, each school nurse was offered a copy of the Child Health Indicator Program (CHIP-AZ) software, a program supported by the Arizona Department of Health Services, Office of Women’s and Children Health for school nurse data collection and reporting. The ADE purchased these items separate from the school mini-grants.

A minimum of 100 student height and weight data was requested from each participating school, with the sample obtained from each grade level offered at the school. From the...
data, BMIs were calculated. Of the eight schools, three declined to collect the height and weight data for the purposes of this project.

**Nutrient Analysis**

A sample of one week's menus along with all other foods available for sale during school hours were analyzed by ADE staff using Nutrikids® for Windows by Lunchbytes. The analysis was then shared with the pilot school food service staff. The information was incorporated into the changes planned in order to meet the required steps of implementing the model policy. The nutrition analysis was conducted again approximately two months after the model policy is implemented. The pre and post-model policy implementation analysis was compared to identify pre and post compliance levels with the model policy.
III. Summary of Pre-Model Policy Implementation Findings

Program Plans

Eight pilot schools applied and where chosen to participate in this pilot project to implement the Arizona Healthy School Environment Model Policy. Within the Model Policy two of the four sections were required to be implemented. The remaining two sections were highly recommended but not required.

Each of the eight schools as it turns out chose a unique approach to implement the Model Policy and meet the needs of their school based on student population, school staff interests and parent and student wishes. This pilot will provide ADE several different models to study and recommend to schools wishing to implement the Model Policy in the future. Listed below is a brief summary of the eight schools and their approach to the Model Policy pilot project.

Bouse Elementary- The staff incorporated more physical activity into the student's daily schedules and implemented the nutrition curriculum provided by ADE. They also changed out the products within their vending machines that had previously offered soda with a water or juice machine.

Catalina Magnet High School- The students from Catalina formed a student advisory committee that had input on their a la carte offerings so it would be tailored to their preferences. They also had fresh fruit kiosks available where students could choose from a variety of fruits each morning. New vending machines were put into place offering a selection of sports drinks and bottled water.

Harriet Johnson Primary School- The staff developed a program to introduce a variety of fruits and vegetables to Pre-K through second graders that would not otherwise be introduced to this audience. Classroom lessons about the fruits and vegetables were followed by 'taste testing' in the cafeteria. Students had the opportunity to try such items as jicama, sweet potato strings and kiwi.

Madison Park Middle School- The staff started two innovate new programs; breakfast in the classroom and recess before lunch. Both programs have been shown by research to increase students willingness to learn as well as improving test scores. Madison also hired a graphic designer and developed a new healthy motto- “Got Health?” which they placed on T-Shirts and lanyards for the students to wear. The vending machine contents were modified to increase the amount of healthy choices offered to the students during the school day without compromising the students taste preferences.

Monte Vista Elementary- The staff at Monte Vista had made a variety of healthy changes prior to this grant project, but were looking to do more. Changes to their school environment include improving the food choices that the students had in their school store, which they did without any negative financial impact. Additionally, the staff incorporated the comprehensive nutrition curriculum into the classrooms, which used nutrition examples to teach core subjects such as math and science.

Mountain Trail Middle School- A group of dynamic teachers at Mountain Trail Middle School who used their grant funding as an opportunity to put their thinking caps on and create a whole new curriculum with a nutrition flare. These teachers developed lesson plans that incorporate nutrition and physical activity with math, English, life science, culinary arts and physical education classes. To help
with this project, the school store run by the PTSO made significant changes to their foods offered during the school day. Along with the school store, the dynamic menu in the cafeteria reflected what the teachers instilled in their students during their classroom learning.

Stanfield Elementary- The motivated administration at Stanfield made huge strides to improve the food choices for the students at Stanfield during their lunch and breakfast meals. The students were involved in helping select new menu items by participating in a taste testing and ranking each new item according to their likes and dislikes. The most popular items were added to the menu. The staff also held an evening ‘Lights Out’ event that celebrated an after-school program as well as the great nutrition changes the school had made.

Vista Alternative High School - Vista Alternative High School added an entire new class to motivate their students to adopt a healthy lifestyle. The school did not have a Physical Education class, nor the equipment to provide one. So, with a little creativity, the principal contacted a local gym where the students can exercise 3 times a week with PE instructor. On the other two days, the students will learn about health and nutrition and how to apply it to their everyday lives. Additionally, the cafeteria made changes to their a la Carte and menu offerings that provided healthy foods so the students had the chance to put what they learn about making healthy choices into practice.
**Pre Implementation Financial Reports**

During the months before the Model Policy was implemented at each pilot school the Team Nutrition Grant Financial Monthly Report was completed. Below is a table of the key data collected in the months prior to model implementation. These data points will serve as a baseline to events that occur as a result of the Model Policy Implementation during the fall of 2004.

### Elementary Schools

<table>
<thead>
<tr>
<th></th>
<th>Bouse</th>
<th>H. Johnson</th>
<th>Monte Vista</th>
<th>Stanfield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades Serves</td>
<td>Pre K-8</td>
<td>PreK-2</td>
<td>K-5</td>
<td>Pre-K-8</td>
</tr>
<tr>
<td>Enrollment</td>
<td>28</td>
<td>377</td>
<td>900</td>
<td>722</td>
</tr>
<tr>
<td>Location</td>
<td>Rural</td>
<td>Urban</td>
<td>Urban</td>
<td>Rural</td>
</tr>
<tr>
<td>Average Breakfasts/day</td>
<td>26</td>
<td>88</td>
<td>473</td>
<td>474</td>
</tr>
<tr>
<td>% participation</td>
<td>94%</td>
<td>23%</td>
<td>53%</td>
<td>65%</td>
</tr>
<tr>
<td>Average Lunches/day</td>
<td>28</td>
<td>292</td>
<td>789</td>
<td>688</td>
</tr>
<tr>
<td>% participation</td>
<td>100%</td>
<td>78%</td>
<td>88%</td>
<td>95%</td>
</tr>
<tr>
<td>Average Profit/Loss mo.</td>
<td>($1,174)</td>
<td>$2,722</td>
<td>$9,002</td>
<td>$19,075</td>
</tr>
<tr>
<td>Student Sales Activities</td>
<td>None</td>
<td>None</td>
<td>Snacks in snack bar open 2 times week</td>
<td>Snow cones, popcorn</td>
</tr>
<tr>
<td>Vending Beneficiary</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Student Council</td>
</tr>
<tr>
<td>Vending Revenue/mo.</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$519</td>
</tr>
</tbody>
</table>

### Middle and High Schools

<table>
<thead>
<tr>
<th></th>
<th>Mountain Trail</th>
<th>Vista Alt. HS</th>
<th>Catalina Magnet HS</th>
<th>Madison</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades Served</td>
<td>7-8</td>
<td>9-12</td>
<td>9-12</td>
<td>3-8</td>
</tr>
<tr>
<td>Enrollment</td>
<td>800</td>
<td>303</td>
<td>1620</td>
<td>909</td>
</tr>
<tr>
<td>Location</td>
<td>Suburban</td>
<td>Urban</td>
<td>Urban</td>
<td>Urban</td>
</tr>
<tr>
<td>Average Breakfasts/day</td>
<td>53</td>
<td>14</td>
<td>81</td>
<td>226</td>
</tr>
<tr>
<td>% participation</td>
<td>7%</td>
<td>5%</td>
<td>5%</td>
<td>25%</td>
</tr>
<tr>
<td>Average Lunches/day</td>
<td>291</td>
<td>26</td>
<td>276</td>
<td>668</td>
</tr>
<tr>
<td>% participation</td>
<td>36%</td>
<td>9%</td>
<td>17%</td>
<td>74%</td>
</tr>
<tr>
<td>Average Profit/Loss mo.</td>
<td>$7,052</td>
<td>($1,148)</td>
<td>($2301)</td>
<td>$7,554</td>
</tr>
<tr>
<td>Student Sales Activities</td>
<td>Candy gram, candle sales</td>
<td>Candy gram, candle sales</td>
<td>Cookie dough, pencils, candy, jamba juice, fry bread, candy grams</td>
<td></td>
</tr>
<tr>
<td>Vending Beneficiary</td>
<td>Student Council</td>
<td>Student Services</td>
<td>Student Council</td>
<td></td>
</tr>
<tr>
<td>Vending Revenue/mo.</td>
<td>$1,500</td>
<td>$142</td>
<td>$2,330</td>
<td>$245</td>
</tr>
</tbody>
</table>
Nutritional Reports

The grant coordinator from ADE met with each school during the spring of 2004 and collected information on every food and beverage item sold at that time during the school day. Each school was provided with a detailed analysis of their program meals and all other food offerings (vending, school store and a la carte) along with a letter that outlined the nutrients that did not meet the guidelines along with suggestions on how to improve.

The table below summarizes each school's calories, fat, saturated fat and total protein from all their food choices offered. Please note that this table is not all-inclusive, as it does not include any micronutrients such as vitamins or mineral contributions of the food offerings. However, the nutrients listed below give an example of the type of information each school was provided.

<table>
<thead>
<tr>
<th></th>
<th>Calories</th>
<th>Total Fat (grams)</th>
<th>% Fat calories</th>
<th>Sat Fat (gram)</th>
<th>% of Sat Fat calories</th>
<th>Protein</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bouse</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Meals K-6 (B&amp;L)*</td>
<td>618</td>
<td>21.58</td>
<td>31.43</td>
<td>7.49</td>
<td>10.92</td>
<td>26.32</td>
</tr>
<tr>
<td>Program Meals 7-12 (B&amp;L)</td>
<td>618</td>
<td>21.58</td>
<td>31.43</td>
<td>7.49</td>
<td>10.92</td>
<td>26.32</td>
</tr>
<tr>
<td>Vending</td>
<td>109</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.09</td>
</tr>
<tr>
<td><strong>Catalina High School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Meals (B&amp;L)</td>
<td>1386</td>
<td>30</td>
<td>31</td>
<td>11</td>
<td>12</td>
<td>52</td>
</tr>
<tr>
<td>Lunch Express</td>
<td>867</td>
<td>40</td>
<td>33.8</td>
<td>12.6</td>
<td>11.08</td>
<td>33.4</td>
</tr>
<tr>
<td><strong>Harriet Johnson Primary School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Meals (B&amp;L)</td>
<td>1251</td>
<td>34.33</td>
<td>24.70%</td>
<td>9.6</td>
<td>8.65</td>
<td>45</td>
</tr>
<tr>
<td>Lunch Express</td>
<td>744</td>
<td>39.5</td>
<td>30</td>
<td>13.1</td>
<td>10</td>
<td>28</td>
</tr>
<tr>
<td><strong>Madison Park Middle School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Meals (B&amp;L)</td>
<td>801</td>
<td>23.05</td>
<td>25.91</td>
<td>8.31</td>
<td>9.34</td>
<td>30.48</td>
</tr>
<tr>
<td>Vending</td>
<td>212</td>
<td>8.86</td>
<td>37.51</td>
<td>1.92</td>
<td>8.12</td>
<td>2.92</td>
</tr>
<tr>
<td><strong>Monte Vista Elementary</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Meals (B&amp;L)</td>
<td>751</td>
<td>26.81</td>
<td>32.11</td>
<td>8.59</td>
<td>10.29</td>
<td>26.97</td>
</tr>
<tr>
<td>School Store</td>
<td>145</td>
<td>9.91</td>
<td>61.71</td>
<td>1.85</td>
<td>11.54</td>
<td>4.34</td>
</tr>
<tr>
<td><strong>Mountain Trail Middle School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Meals (B&amp;L)</td>
<td>1009</td>
<td>35.64</td>
<td>31.78</td>
<td>12.64</td>
<td>11.27</td>
<td>37.42</td>
</tr>
<tr>
<td>A la carte/Vending</td>
<td>213</td>
<td>5.5</td>
<td>23.27</td>
<td>1.7</td>
<td>7.19</td>
<td>2.6</td>
</tr>
<tr>
<td>School Store</td>
<td>177</td>
<td>4.04</td>
<td>20.55</td>
<td>1.23</td>
<td>6.25</td>
<td>1.15</td>
</tr>
<tr>
<td><strong>Stanfield Elementary</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Meals K-6 (B&amp;L)</td>
<td>630</td>
<td>20.63</td>
<td>29.5</td>
<td>7.31</td>
<td>10.46</td>
<td>25.74</td>
</tr>
<tr>
<td>Program Meals 7-12 (B&amp;L)</td>
<td>645</td>
<td>20.93</td>
<td>29.21</td>
<td>7.5</td>
<td>10.47</td>
<td>26.7</td>
</tr>
<tr>
<td>Vending</td>
<td>198</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Vista Alternative High School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Meals (B&amp;L)</td>
<td>1136</td>
<td>39.66</td>
<td>31.41</td>
<td>13.41</td>
<td>10.63</td>
<td>46.13</td>
</tr>
<tr>
<td>A la carte/Vending</td>
<td>218</td>
<td>7.95</td>
<td>32.84</td>
<td>2.68</td>
<td>11.05</td>
<td>4.32</td>
</tr>
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</table>

* B&L = Breakfast and Lunch Meals*
IV. Final Results

Post-Team Nutrition Grant
Policy Implementation Data

Elementary Schools

<table>
<thead>
<tr>
<th></th>
<th>Bouse</th>
<th>H. Johnson</th>
<th>Monte Vista</th>
<th>Stanfield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades Serves</td>
<td>Pre K-8</td>
<td>PreK-2</td>
<td>K-5</td>
<td>Pre-K-8</td>
</tr>
<tr>
<td>Enrollment</td>
<td>42</td>
<td>362</td>
<td>925</td>
<td>825</td>
</tr>
<tr>
<td>Location</td>
<td>Rural</td>
<td>Urban</td>
<td>Urban</td>
<td>Rural</td>
</tr>
<tr>
<td>Average Breakfasts/day</td>
<td>35</td>
<td>75</td>
<td>527</td>
<td>423</td>
</tr>
<tr>
<td>% participation</td>
<td>85%</td>
<td>21%</td>
<td>57%</td>
<td>51%</td>
</tr>
<tr>
<td>Average Lunches/day</td>
<td>38</td>
<td>243</td>
<td>823</td>
<td>742</td>
</tr>
<tr>
<td>% participation</td>
<td>90%</td>
<td>67%</td>
<td>89%</td>
<td>90%</td>
</tr>
<tr>
<td>Average Profit/Loss mo.</td>
<td>($1,100)</td>
<td>$923</td>
<td>$8,151</td>
<td>($5,785)</td>
</tr>
<tr>
<td>Student Sales Activities</td>
<td>None</td>
<td>None</td>
<td>Snacks in snack bar open 2 times week Avg. $962/mo.</td>
<td>Snow cones, popcorn</td>
</tr>
<tr>
<td>Vending Beneficiary</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Student Council</td>
</tr>
<tr>
<td>Vending Revenue/mo.</td>
<td>$4.76</td>
<td>$0</td>
<td>$0</td>
<td>$287.92</td>
</tr>
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</table>

Middle and High Schools

<table>
<thead>
<tr>
<th></th>
<th>Mountain Trail</th>
<th>Vista Alt. HS</th>
<th>Catalina Magnet HS</th>
<th>Madison</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades Served</td>
<td>7-8</td>
<td>9-12</td>
<td>9-12</td>
<td>4-8 (lost 3rd grade classes)</td>
</tr>
<tr>
<td>Enrollment</td>
<td>899</td>
<td>346</td>
<td>1649</td>
<td>893</td>
</tr>
<tr>
<td>Location</td>
<td>Suburban</td>
<td>Urban</td>
<td>Urban</td>
<td>Urban</td>
</tr>
<tr>
<td>Average Breakfasts/day</td>
<td>28</td>
<td>17</td>
<td>77</td>
<td>540</td>
</tr>
<tr>
<td>% participation</td>
<td>3%</td>
<td>5%</td>
<td>5%</td>
<td>60%</td>
</tr>
<tr>
<td>Average Lunches/day</td>
<td>271</td>
<td>48</td>
<td>420</td>
<td>577</td>
</tr>
<tr>
<td>% participation</td>
<td>30%</td>
<td>14%</td>
<td>25%</td>
<td>65%</td>
</tr>
<tr>
<td>Average Profit/Loss mo.</td>
<td>$3,306</td>
<td>($2,021)</td>
<td>($1300)</td>
<td>$6,364</td>
</tr>
<tr>
<td>Student Sales Activities</td>
<td>*</td>
<td>Candy gram, candle sales</td>
<td>Cookie dough, pencils, candy, jamba juice, fry bread, candy grams</td>
<td></td>
</tr>
<tr>
<td>Vending Beneficiary</td>
<td>Student Council</td>
<td>Student Services</td>
<td>Student Council</td>
<td></td>
</tr>
<tr>
<td>Vending Revenue/mo.</td>
<td>$249</td>
<td>$152</td>
<td>$201</td>
<td>$162</td>
</tr>
</tbody>
</table>

* School has a PTSO run snack bar: Avg sales: $2,765. Food items sold at snack bar modified in August to meet grant requirements. Snack bar closed twice during semester for approx. one week each incidence due to vadelism. PTSA believes sales on par post-grant with pre-grant numbers when days of operation factored into equation.
Final financial and nutrition results are as reported by each grant school as of the January 10, 2005.

**Financial:**

**Bouse Elementary School**

- **Pre-Policy Implementation:**
- **Post-Policy Implementation:**

Bouse Elementary- New Vending Sales

**Stanfield Elementary School**

Stanfield Elementary- Vending already healthy before grant. Difference: machines off at meal times beginning August 04

**H. Johnson Primary School**

No Vending or School Sales

**Monte Vista School**

Sales from school store open 2 days week after lunch. In August, all foods sold are healthy choices.

**Catalina Magnet High School**

Removed soda before grant received. Using Tax Credit for supplanting funding loss. Slowly adding new vending.

**Vista Alternative High School**

Vending available all day. No soda before grant. Minor changes to contents for grant.

**Mountain Trail Middle School**

School store content changed to healthier choices in August; sales remain same. Vending available during the school day already healthy before the grant.

**Madison Park School**

Vending available meal time only. Content changes made in August to healthier choices.
Nutrition:

**Elementary Schools**

Percent Total Fat Calories and Saturated Fat Calories

Goal for Fat- Less than 30% of Total Calories

Goal for Saturated Fat- Less than 10 % of Total Calories

---

**Bouse Elementary**

Program Meals

---

**Harriet Johnson Primary**

Program Meals

---

**Monte Vista Elementary**

Program Meals

---

**Stanfield Elementary**

Program Meals
Junior High and High Schools
Percent Total Fat Calories and Saturated Fat Calories
Goal for Fat- Less than 30% of Total Calories
Goal for Saturated Fat- Less than 10 % of Total Calories

Catalina Magnet High School
Program Meals

Vista Alternative High School
Program Meals

Madison Park School
Program Meals

Mountain Trail Middle School
Program Meals
Pilot Schools with Vending, Al a Carte or School Stores
Percent Fat Calories and Saturated Fat Calories
Goal for Fat- Less than 30% of Total Calories
Goal for Saturated Fat- Less than 10 % of Total Calories

Monte Vista Elementary School Store

Madison Park School Vending

Mountain Trail Middle School School Store**

Mountain Trail Middle School A la Carte/Vending

Vista Alternative High School A la Carte/Vending

**Disclaimer- please note that despite increase of percent calories from fat in Mt. Trails School Store, the food items sold improved dramatically in nutrient density as displayed in graph section ‘Individual School Nutrition Improvement’ listed below.
All Grant Schools
Percent Calories from Fat and Saturated Fat
Goal for Fat- Less than 30%
Goal for Saturated Fat- Less than 10%
All Grant Schools with Additional Food Offerings
Percent Fat and Saturated Fat

**All Grant Schools**

**Percent Calories from Fat**

- **Monte Vista (SS)**
- **Madison (V)**
- **Mt Trail (AC/V)**
- **Mt Trail (SS)**
- **Vista (AC/V)**

**Pre (Spring)**

**Post (Fall)**

**SS- School Store**

**V- Vending**

**AC- Al a Carte**

**All Grant Schools**

**Percent Calories from Saturated Fat**

- **Monte Vista (SS)**
- **Madison (V)**
- **Mt Trail (AC/V)**
- **Mt Trail (SS)**
- **Vista (AC/V)**

**Pre (Spring)**

**Post (Fall)**

**SS- School Store**

**V- Vending**

**AC- Al a Carte**
All Grant Schools
Total Fat and Saturated Fat grams (g)

All Grant Schools:
Total Fat (g)
Program Meals

All Grant Schools:
Saturated Fat (g)
Program Meals
Overall Nutrition Improvements:
All Grant Schools with Additional Food Offerings

Total Fat and Saturated Fat grams (g)

All Grant Schools with Additional Food Offerings
Total Fat (g)

Monte Vista (SS)
Madison (V)
Mt Trail (AC/V)
Mt Trail (SS)
Vista (AC/V)

Total Fat (g)
Pre (Spring)
Post (Fall)
SS- School Store
V- Vending
AC- A la Carte

Saturated Fat (g)

Monte Vista (SS)
Madison (V)
Mt Trail (AC/V)
Mt Trail (SS)
Vista (AC/V)

Total Sat Fat (g)
Pre (Spring)
Post (Fall)
SS- School Store
V- Vending
AC- A la Carte
Individual School Nutrition Improvements

Elementary Schools

Bouse:
Micro Nutrients
Program Meals

Calcium | Vit A | Vit C
Pre (Spring) | Post (Fall)

Bouse:
Fiber & Iron
Program Meals

Fiber | Iron
Pre (Spring) | Post (Fall)

Monte Vista:
Calcium, Sodium, Vitamin A
School Store

Calcium | Vit A | Sodium
Pre (Spring) | Post (Fall)

Stanfield Elementary:
Fiber, Vitamin C, Iron
Program Meals

Fiber | Vit C | Iron
Pre (Spring) | Post (Fall)

Junior High and High Schools

Catalina Magnet H.S.
Cholesterol and Sodium:
Program Meals

Cholesterol | Sodium
Pre (Spring) | Post (Fall)

Madison Park
Calcium & Vitamin C
Vending

Calcium | Vit C
Pre (Fall) | Post (Spring)

Mountain Trail Middle School
Fiber & Protein
School Store

Fiber | Protein
Pre (Spring) | Post (Fall)

Vista Alternative H.S.
Vitamin A & C
Vending

Vit A | Vit C
Pre (Spring) | Post (Fall)
Height and Weight Data (BMI)
Height and weight data pending as of February 1st, 2005.

IV. Discussion

Financial:
Each school that offered additional foods via vending, al a Carte or school stores showed no negative financial impacts after making healthy changes to their food selections. Each graph listed above indicates what each school changed and what was already acceptable according to the policy standards prior to the fall of 2004. Several schools already had healthy vending in place, but made other changes such as school store options. While other schools had no other food choices other than the program meal, they had a different focus such as improving the quality of their menu, adding nutrition curriculum or increasing their program meal participation.

Nutrition:
Overall, each schools program meals improved with decreases in their overall fat and saturated fat content. Those schools with vending or school stores also made dramatic improvements in the nutrient content of their offerings. It does appear with the some of the graphs that the fat and saturated fat content increased with the changes made. This is due to the high sugar and low nutrient snacks were replaced with a better nutrient quality snacks that contained more healthy fat than previously offered.

The graph of Mountain Trails vending and school stores reflect an increase in total fat and saturated fat in both their vending and school stores. However, it should be noted that the items that were previously sold where high in refined sugar and were low in fat/calories due to the fact they were mainly candies like jellies, hard candy, fondant, which contained no actual nutrient value. The items that replaced the non-nutritive items included peanuts; trail mix, beef jerky, and granola bars. These products contained more fat, but the type of fat was predominately healthy mono and polyunsaturated and not saturated fat, which is the unhealthier fat of the three. Thus, the changes that were made were for the betterment of the students’ health, despite the reflection of a higher fat content in the graphs above.

Monte Vista’s school store improvements decreased the fat content as well as the saturated fat content from its original offerings. The selections are slightly above the 30% of calories from fat goal, but are closer to meeting it than they were before the changes were made.
### Section 1:

<table>
<thead>
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<th>Name:</th>
<th>Date:</th>
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<tbody>
<tr>
<td>Report for the Month of:</td>
<td>Year:</td>
</tr>
<tr>
<td>School Name:</td>
<td>Contract No.:</td>
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<tr>
<td>Check one:</td>
<td></td>
</tr>
<tr>
<td>□ HS Closed Campus</td>
<td>□ HS Open Campus</td>
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### Section 2:

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<tr>
<th>Program Meals</th>
<th>Meals Served #</th>
<th>Revenue $</th>
<th>Reimburse $</th>
<th>Total $</th>
<th>Wages $</th>
<th>Meal Cost $</th>
<th>All other (Indirect) Cost $</th>
<th>Total $</th>
<th>Profit (Loss) $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Children Breakfasts</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Adult Worker Breakfasts</td>
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<td></td>
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<td>Other Adult Breakfasts</td>
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<td>Children Lunches</td>
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<td>Adult Worker Lunches</td>
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<tr>
<td>Other Adult Lunches</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Comments (impact on atmosphere, students, explain any 5% or greater difference from previous report)

### Section 3:

- □ Check box if student sales occurred

Describe Student Sales:

Which District Account Do Student Sales Get Deposited?
- □ Student Services
- □ Student Activities
- □ Other (specify): ________________

Ending Balance of this account for the month:

Comments: (impact on clubs and fundraising activities, etc.)

### Section 4:

<table>
<thead>
<tr>
<th>Other Food Sales</th>
<th>Revenue $</th>
<th>Reimburse $</th>
<th>Total $</th>
<th>Wages $</th>
<th>Food Cost $</th>
<th>All other Indirect Cost $</th>
<th>Total $</th>
<th>Profit (Loss) $</th>
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</thead>
<tbody>
<tr>
<td>Al a Carte</td>
<td></td>
<td></td>
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<tr>
<td>Vending</td>
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<td></td>
<td></td>
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<tr>
<td>Other Foods</td>
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</tbody>
</table>

Comments (impact on students, items sold, explain any 5% or greater difference from previous report)
Appendix C

Instruction Tips
Arizona Department of Education
Team Nutrition Grant Financial Report
Tips to Complete Monthly Report

Section 1: Basic Information
Complete the boxes by providing your name and your school name, date report completed, reporting month, phone number, and contract number. Check the box describing your school type.

Section 2: Program Meal Information
Complete each box by providing the number of meals served for each category. Each box should have a number or information provided. Place a “0” (zero) in any box that has no value or information available. We will call for information if a box is left blank.
Also provide the financial information about each category including the revenue and cost information. Subtract the Total Cost from the Total Revenue will determine the Profit/Loss recorded in the last column. All boxes are asking for dollar amount except the first box which is asking for the number of meals served for the month. Wage expenses can be reported in a lump sum amount for all categories if breaking out wage expenses by meal is not feasible. If one number is being provided record it in the first box and line through the remaining boxes.
Comments: explain any difference of 5% or greater from previous reports and record any antidotal comments from students regarding the implementation of the Nutrition Policy in your school. This may include feedback from students regarding changes in food options, changes in attitudes, changes in the mealtime atmosphere, days closed for break, etc.

Section 3: Student Sales
Complete each box by providing information regarding any student sales that occurs at your school during the report month. Use a “0” (zero) for any boxes where no activity or numbers are reportable during the time period. Check the appropriate box that represents the account used to collect funding from student sales and the ending balance of the account used for these sales programs. Provide comments about the Nutrition Policy impact on club and student sales and record any changes the policy makes to these sales activities.

Section 4: Other Food Sales
Complete each box by providing the monthly revenue and cost information for all other food sales occurring at your school during the month. This may include Al a Carte, Vending and School Store sales. Subtract Total Cost from Total Revenue to obtain Profit/Loss recorded in the last column.
Comments: explain any difference of 5% or greater from previous reports and record any antidotal comments from students regarding the implementation of the Nutrition Policy in your school. This may include the impact of the policy on vending machine choices and sales, school store sales and Al a Carte options and sales, etc.