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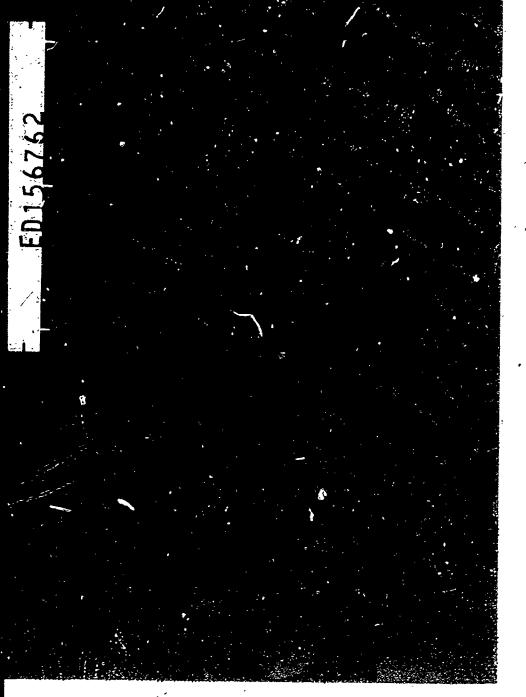
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ABSTRACT

This is a guide designed to help school personnel to plan Type A school lunches and to understand the relationship of Type A lunch requirements to children's dietary needs. The nutritional requirements of the Federally established Type A lunch rattern, which utilizes agricultural surplus food, are described. Procedures and amounts for planning for feeding different age groups are outlined. Suggestions are offered for making the lunches varied and appealing. Steps for planning and cycling the school lunch menus are delineated. A nutritional chart, sample menu worksheet, and a list of additional resource materials are also provided. (GC)



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A MENU PLANNING GUIDE for TYPE A School Lunches

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Foreword

The National School Lunch Program serves to safeguard the health and well-being of children through the use of our agricultural abundance. As designed by Congress it is a means of providing nutritious, reasonably priced lunches to school children and contributes to better understanding of good nutrition and improved food habits. Since the passage of the National School Lunch Act in 1946, school food service has become a basic part of the nutritional and educational programs of the Nation, has gained recognition as a profession, has become an important segment of the food industry and has greatly expanded the Nation's markets for food.

The reality of food science today must be reflected in the rapidly growing school food service programs. Everyone involved must constantly try out new ideas and find innovative ways to meet the goal of improved nutrition, increased participation, ease of delivery and economy.

This menu planning guide has been prepared to help school lunch personnel plan Type A school lunches and understand the relationship of the Type A lunch requirements to the dietary needs of boys and girls. Consideration has been given to the most recent advances in the fields of food and nutrition and to the basic principles of good menu planning. This publication includes:

- Requirements for school lunches.
- Suggestions for planning menus for boys and girls of various age groups.
- Systematic methods for planning and evaluating menus.
- Ideas for planning for controlled choices of foods with the Type A lunch pattern.
- Sample menus that meet Type A lunch requirements.

The Nutrition and Technical Services Staff wishes to express its sincere appreciation to all who assisted in the revision of this publication—especially the personnel of the Child Nutrition Division, the Food and Nutrition Service Regional Offices, USDA; the State School Food Service Agencies; and the Food and Diet Appraisal Research Group, Consumer and Food Economics Institute, Agricultural Research Service, USDA.

A MENU PLANNING GUIDE for TYPE A School Lunches

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A MENU PLANNING GUIDE for TYPE A School Lunches

The Importance of Menu Planning

The goal of every school lunch program is to serve nutritionally adequate, attractive and moderately priced lunches. School lunches that meet these standards are very real achievements and are the result of carefully planned menus. The Type A lunch requirements form a simple and easily followed pattern which shows the kinds and amounts of food to serve children; however, the quality of the lunch depends on the knowledge, ability and judgment of the person using the pattern in planning food combinations that will be acceptable to children.

Menu planning, therefore, presents many challenges:

- to provide the best possible lunches at a minimum cost.
- to produce optimum quality meals through effective management of available equipment and facilities.
- to achieve effective use of school food service personnel.
- to help boys and girls learn to eat well and accept a wide variety of foods. This challenge must be shared with the school and the parents.

Successful management of a school lunch program starts with menu planning.

THE MENUS:

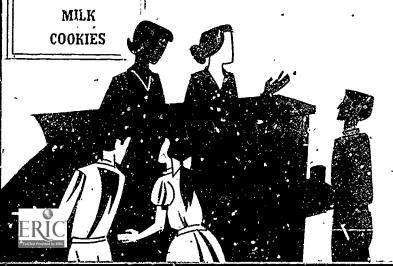
help determine whether the lunches meet the Type A requirements and are nutritionally adequate.

help increase participation in the lunch program when they include combinations of foods that are pleasing to children.

- . . . help promote good eating habits.
- ... help control food costs when they include USDA-donated foods, foods in plentiful supply and foods purchased wisely.
- ... help control labor costs when they are used as a basis for scheduling work to make the m⁻ efficient use of the available equipment and the time and skills of the employee.



BREAD



The Type A Lunch Pattern...

The nutritional goal for school lunches is to furnish at least one-third of the Recommended Daily Dietary Allowances of the National Research Council for children of various age groups. The Type A lunch requirements provide the framework for nutritionally adequate school lunches. The kinds and amounts of foods listed in the Type A lunch pattern are based on the 1968 Recommended Daily Dietary Allowances for 10- to 12-year old boys and girls. (See page 20.)

As specified in the National School Lunch Regulations, a Type A lunch shall contain as a minimum each of the following food components in the amounts indicated: (See pages 10 and 11 for detailed listing of Foods for Type A School Lunches.)

MEAT AND MEAT ALTERNATE

Two ounces (edible portion as served) of lean meat, poultry or fish; or two ounces of cheese; or one egg; or one-half cup of cooked dry beahs or dry peas; or four table-spoons of peanut butter; or an equivalent of any combination of the above-listed foods. To be counted in meeting this requirement, these foods must be served in a main dish or in a main dish and one other menu item.

VEGETABLES AND FRUITS

Three-fourths cup serving consisting of two or more vegetables or fruits or both. A serving (1/4 cup or more) c' full-strength vegetable or fruit juice may be counted to meet not more than 1/4 cup of this requirement.

BREAD

One slice of whole-grain or enriched bread; or a serving of other bread such as cornbread, biscuits, rolls, muffins, made of whole-grain or enriched meal or flour.

BUTTER OR FORTIFIED MARGARINE

One teaspoon of butter or fortified margarine.

FLUID MILK

One-half pint of fluid milk as a beverage.

Add Other Foods not part of the lunch requirements as needed to complete lunches, to help improve acceptability and to provide additional food energy and other nutrients. (See chart page 11.)

To help assure that all Type A lunches meet the nutritional goal, it is recommended that lunches include:

- . . . a VITAMIN A vegetable or fruit at least twice a week.
- . . . a VITAMIN C vegetable or fruit several times a week.
- . . . several foods for IRON each day.

It is also recommended that:

- . . . Fat in the Type A lunch be kept at a moderate level.
- . . . Iodized Salt be used in preparing lunches.

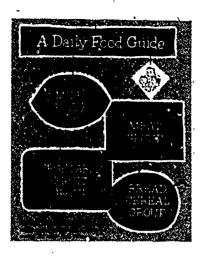
When a variety of the foods listed above is used in the amounts specified and in combination with Other Foods needed to satisfy the appetite, the lunches will make a significant contribution toward the daily dietary allowances recommended by the National Research Council for 10- to 12-year old boys and girls.

Since younger children are not always able to eat the amounts specified in the Type A lunch, the regulations permit serving these children lesser amounts of selected foods than are specified above.

To meet the nutritional needs of teenagers, the regulations endorse encouraging the serving to older boys and girls of larger amounts of selected foods than are specified in the Type A lunch requirements. See USDA's Type A School Lunch Guide to the Amounts of Food for Boys and Girls of Specified Ages on page 5.



... Provides Food for Fitness





The Type A lunch pattern has been developed especially to help in the wise choice of foods that will provide one-third or more of the nutrients boys and girls need each day. It includes foods from all the food groups of the Daily Food Guide and a specified amount of butter or fortified margarine. Broad food choices are possible within the Type A lunch pattern so that cultural, ethnic, and religious food practices of children can be considered in menu planning.

Well-nourished children function better than poorly nourished ones. The food children eat each day makes a difference in the way they look, the way they feel and how well they grow and learn. Food should provide the nutrients children need for good health and normal growth including:

PROTEIN for normal growth and for building and repair of the body.

VITAMINS and MINERALS for growth and to keep the body functioning properly.

FATS and CARBOHYDRATES for energy.

No one food contains all of the nutrients in amounts needed. (See "Nutrients and Foods for Health," Leaflet FNS-97.) A wise selection of a variety of foods that together will supply these nutrients is very important. When the Type A pattern is properly used, the lunches will include foods which supply needed nutrients and energy:

MEAT AND MEAT ALTERNATE—to provide protein, iron, B vitamins (thiamin, riboflavin, niacin) and other nutrients.

VEGETABLES and FRUITS—to provide most of the vitamin A and vitamin C and some of the iron and other vitamins and minerals.

ENRICHED or WHOLE-GRAIN BREADS—to provide some of the 3 vitamins (thiamin, niacin), minerals (especially iron) and calories.

BUTTER or FORTIFIED MARGARINE—to provide some of the calories and vitamin A.

MILK—to provide most of the calcium and riboflavin, some protein, vitamin A, vitamin D (if fortified), phosphorus, and other nutrients.

her Foods—needed to complete the lunch—will provide additional food energy clories) and other nutrients.

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Planning Type A Lunches for Various Age Groups

Children

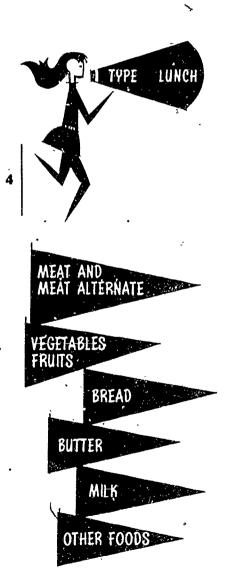
it is the food that is eaten which builds and maintains health. Type A lunches should supply the combinations of foods in the amounts children of different age groups will eat and enjoy. The quantities of foods served should be increased or decreased, when appropriate, to satisfy the food and nutritional needs for the age groups being served. The amounts of foods for boys and girls of specified ages are stated in the guide on the opposite page.

FOR CHILDREN IN THE LOWER ELEMENTARY GRADES (ages 6 up to 10 years)—the quantities of some meat alternate items specified in the Type A pattern may be adjusted to meet their lesser food needs. Many children in this age group can and will eat the complete Type A lunch when "go-together" menu items are selected with them in mind.

Plan To Include:

- Foods that meet the Type A lunch requirements first—then add Other Foods to round out lunches or provide appetite appeal.
- Plain foods, simply prepared and lightly seasoned—a meat patty, a vegetable, a canned or fresh fruit. Younger children especially like to recognize the foods they eat and do not always like highly seasoned foods.
- Moderate-to-small size servings of foods. Larger servings may tend to discourage them from eating. Use a combination of 3 servings of vegetables and fruits to meet Type A requirements.
- Fewer or smaller servings of starchy foods such as noodles, rice, spaghetti. These may dull their appetites for the other foods in the lunch.
- Foods in a form younger children can manage easily such as bite-size pieces of meat. Serve some "finger foods"—vegetable sticks, wedges of fresh fruits.
- Simple nutritious desserts which will help meet Type A funch requirements.

FOR CHILDREN IN THE UPPER ELEMENTARY GRADES (10 up to 12 years)—the five food groups of the Type A pattern form the foundation of the lunch. When these foods are used in the amounts specified, and in combination with Other Foods necessary to satisfy the appetite, the lunches served will make a substantial contribution to the food needs of 10- to 12-year old boys and girls.



and Youth

FOR BOYS AND GIRLS IN SECONDARY SCHOOLS (ages 12 up to 18 years)—the quantities of foods specified in the pattern may need to be increased to provide for their greater nutritional needs. School lunch staffs must recognize the importance of serving generous amounts of high quality food at a reasonable charge and in attractive settings. Teenagers will accept and enjoy eating Type A lunches tailored to meet their food needs and preferences including foods that are the teen-age "rage."

Well-planned lunches providing for controlled choices of foods is another means of satisfying teen-age customers. Their desire for independence of thought and their need for making their own decisions can be recognized by offering a limited number of food choices within the framework of the Type A pattern. These might include:

A choice within food groups of the Type A pattern:

Main Dishes

Meat Loaf or Barbecued

Leef Sandwich

Baked Turkey or Glazed

Ham

Baked Turkey or Glazed Ham Macaroni & Cheese or Fish Sticks Vegetables and Fruits

Cooked Vegetables—
Broccoli Spears or Glazed
Sweetpotatoes
Green Lima Beans or

Green Lima Beans Corn "Niblets" Salad—
Hot Potato Salad or Jellied

Cranberry-Fruit Salad
Fruit Desserts—

Cherry Cobbler or Sliced Peaches

Desserts (Other Foods)
Gingerbread/Frosting or
Chocolate Chip Cookies
Red Gelatin Cubes/Topping
or Ice Cream Cup

A choice of two or more Type A lunches:

Hot Main Dish Oven-Fried Chicken

Parsley Potato Peas & Carrots
Tomato Wedges
Buttered Hot Roll Milk
Frosted Applesauce Cake

Hot Main Dish

Pizza/(Butter or Margarine)
Tossed Salad/Italian Dressing
Orange Wedges
Milk
Peanut Butter Cookies

AND

Tuna Salad on Lettuce/Potato Chips
Tomato Wedges Chilled Pears
Buttered Hot Roll Milk
Frosted Applesauce Cake

AND

Cold Sandwich Plate or Box Lunch
Ham/Cheese/Lettuce. Sandwich
on Buttered Hard Roll Pickle Strip
Potato Salad Orange Halves
Milk
Peanut Butter Cookies

With careful planning and efficient management, offering limited choices within the Type A lunch pattern need not increase operating costs.

THE TYPE A SCHOOL LUNCH GUIDE TO THE AMOUNTS OF FOOD FOR BOYS AND GIRLS OF SPECIFIED AGES

.	Pre-school children	Elementary	Secondary schools	
Pattern	(3 up to 6 years)	6 up to 10 years	10 up to 12-years	boys and girls (12 up to 18 years)
Meat and/or alternate: One of the following of combinations to give equivalent quantities:		•	(Type A lunch)	,
Meat, poultry, fish Cheese Egg ² Cooked dry beans and peas Peanut butter Vegetable and/or fruit ³ Bread ⁴ Butter or fortified margarine Milk	1½ ounces 1 ¼ cup 2 tablespoons ½ cup ½ slice ½ teaspoon	2 ounces 2 ounces 1 ½ cup 3 tablespoons ¾ cup ! slice 1 teaspoon ½ pint	2 ounces 2 ounces 1 ½ cup 4 tablespoons ¾ cup 1 slice 1 teaspoon ½ pint	3 ounces 3 ounces 1 34 to 114 cups 4 to 5 tablespoons 1 to 112 cups 1 to 3 slices 1 to 2 teaspoons 1/2 pint

When a range in amounts is given, the smaller amounts are suggested for girls and the larger amounts for older boys. An amount midway between the amounts shown is suggested for younger boys.

3 Must include at least two kinds.

Or a serving of cornbread, biscults, rolls, mussins, etc., made of whole-grain or enriched meal or flour.

*If this is impractical, serve ½ pint.

REMEMBER: The amounts of foods for all age groups, except 10 up to 12 years, are intended as guides and their literal use is not mandatory.

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²When egg is served as the main dish in the lunch, use in addition a half portion of meat or other meat alternate for all children except those 3 up to 6 years.



Eating lunch at school should be a real pleasure. Planning menus that satisfy school lunch customers—pre-schoolers to teenagers, as well as adults—is a challenging and complex task. The person planning the menus holds the key to nutritional adequacy of the lunch and the acceptability of foods by pupils and teachers. The wise supervisor or manager will organize her efforts and capitalize on the imagination and talents of many individuals and student groups.

From the management standpoint, menu planning is probably the most important phase of school food service operations. Menus must reflect the operational realities of the food service system.

Menus can be planned more easily and efficiently when a systematic method is followed.

ORGANIZE THE PLACE

- . Have a special place at school where menus are planned.
- A well-arranged office, if one is available, or a quiet corner in the kitchen or dining area is a good place.
- Equip the space to be used with a desk or table, a chair, a bulletin board and a file cabinet or a bookcase or built-in shelf for reference materials and recipes.

ARRANGE THE REFERENCE MATERIALS and special aids in an orderly manner.

- Label each reference file: Previous Menus, Inventories of USDA-Donated Foods and Purchase Foods, USDA-Fact Sheets on Donated Foods, Market Reports, Price Lists, Menu Suggestions (popular items), and Newsletters. Keep all files at the menu planning center.
- Have Menu Planning Guide (this publication), Food Buying Guide, USDA Recipe Card File, Menu Forms or Record Books readily available. (For additional background information, see pages 18 and 19.)
- Refer to School Calendar, School and Local Papers for "Now" activities.

DETERMINE THE PERIOD OF TIME for which menus will be planned.

- Plan menus for at least a month at one time. (See page 14—)How to Plan Menus.)
- Consider purchasing practices and delivery schedules for USDA-donated foods and locally purchased foods.

SCHEDULE A TIME TO PLAN.

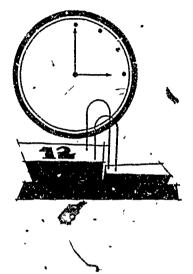
- Plan menus from two weeks to a month shead of the time they are to be served.
- Decide on the day(s) of the week or month on which to plan menus. Set aside a special time when you will be free from interruption. Select a time when you are relaxed and your appetite is good.
- Allow enough time to study food inventories, current market and price reports, and previous menus used, to review menu suggestions, select recipes, and plan and check the menus.
- Allow time also to determine quantities of foods needed and prepare market orders.
- Allow time to involve interested individuals and student groups. (Student involvement helps sell-school lunches.)

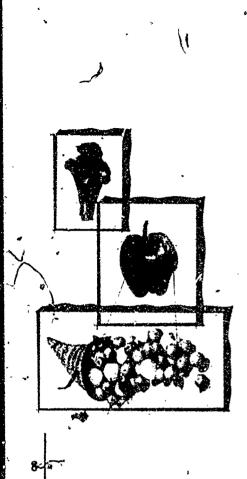
PLAN FOR THE TOTAL JOB

Good menu planning goes beyond the listing of specific foods to be included in daily lunches. A menu planning worksheet can help systematize the total job.

- Record the menus planned on a worksheet designed for that purpose and suited to individual needs. (See sample worksheets—pages 17 and 21.)
- Select the specific recipes to be used in preparing the different menu items. Refer to PA-631, Quantity Recipes for Type A School Lunches.
- Determine the size serving desired.
- Evaluate the menus from the standpoints of meeting ? A lunch requirements as well as quality and quantity.
- Estimate the number of lunches to be prepared.
- Adjust the recipes selected to provide the necessary number of princes.
- Calculate the amounts of food required for the total number of lunches to be served to boys and girls and adults. Use PA-719 (this publication) and PA-270, Food Buying Guide for Type A School Lunches.
- Calculate the cost of the lunches.
- Prepare purchase orders relative to food inventories.
- Develop production time and work schedules.

CAREFUL SYSTEMATIC PLANNING OF MENUS—WELL IN ADVANCE—IS A KEY TO GOOD MANAGEMENT.





Tips for Planning Type A Menus

Creative menu planning calls for originality, imagination and a spirit of adventure. Personnel responsible for planning menus must recognize that appealing, interesting and economical lunches can be planned for many kinds of Type A lunches from the simple box lunch to the lunch with many choices. Advances in food technology make it possible to serve Type A lunches in many forms such as a cup-can lunch, a frozen TV-type lunch or a lunch prepared from "scratch." Keep the following points in mind:

PLAN, FOR VARIETY

Plan to include a wide variety of foods from day to day.

- Do not use the same food on consecutive days—meat balls with spaghetti on Monday and beef patties on Tuesday.
- Do not use the same food on the same day of each week. Each Monday should not be "hot dog" day nor Tuesday "chicken and mashed potato" day.

Plan for a variety of types of binches. Plan lunches around a casserole, a soup and sandwich or main dish salad.

Plan to include different forms of foods prepared in different ways. Lists of various main dishes, ways to prepare vegetables and suggestions for variety ... breads will be helpful-

- Do not use two foods prepared in the same way in the same lunch—two
 creamed dishes or two casserole-type dishes.
- Do not use foods prepared in the same way each time they are served—vegetables can be served raw or cooked, peeled or unpeeled, buttered, creamed, scalloped with different sauces or seasonings—but be sure the "different way" of serving is as good or better than the "usual way."

Plan to include the food combinations most acceptable to children. Include a surprise item or a small amount of a new or unfamiliar food. For example, serve roast beef and masked potatoes occasionally—but add cheese balls rolled in nuts as a garnish on the salad or add a small serving of an unfamiliar or less popular food such as a salad with fresh spinach or raw cauliflower.

PLAN FOR CONTRAST

Plan to use some crisp, firm foods with soft, creamy ones.

- Use something crisp or firm in each lunch—a green salad, raw vegetable sticks or hard rolls.
- Do not use tog many starchy foods in the same menu macaroni and potatoes, noodles and corn, sweetpotatões and rice.

Plan to use a combination of mild and strong flavored foods.

- Do not use too many foods with pronounced flavors in the same lunch—broccoli, onions and turnips; cabbage and cauliflower.
- Do not use two foods of the same flavor together—tomato juice and stewed tomatoes, or macaroni and cheese and a pineapple-cheese salad.

Plan to use a pleasing combination of different sizes and shapes of foods.

- Do not use too many chopped or mixed items in the same lunch-- potato-hamcheese casserole, tossed salad and fruit sup.
- Do not use too many foods of the same shape together—meat balls, steamed potatoes, whole boots and mutfins, or cubed meat, diced potatoes, mixed vegetables and fruit cocktail.



PLAN FOR EYE! APPEAL

Plan to use combinations of colors that blend well. Consider the color of t^r a dishes to be used as well as the colors of the foods.

- Use at least one or two colorful foods in each menu. The natural red, green and orange colors of fruits and vegetables add eye appeal.
- Use colorful foods in combination with those of little or no color—broccoli
 spears with creamed potatoes, pimiento er green pepper in corn pudding.
- Use garnishes to brighten food naturally lacking in color—a slice of radish or cucumber, stuffed olives, a tomato wedge, sieved egg, a bit of brightly colored fruit, a sprig of parsley or watercress, a dash of paprika.

Plan the way the menu items will be placed on the tray or plate. Visualize how the foods will look when served and decide on the most attractive arrangement.

CONSIDER:

Food Habits—Plan lunches that cater to the regional, cultural and personal food preferences of children—however, include "new" or less popular foods with well-liked or familiar ones.

- Introduce as "new foods" those which supply the nutrients most often lacking in home diets.
- · Be sure menus do not reflect personal food prejudices.

Special Occasions—Plan lunches which have a festive air for school and National holidays, childrens' birthdays, parents' visiting days, Universal Menu for National School Lunch Week. Dress up the foods in these lunches. Use imagination in planning the kinds of food to serve—the garnishes to use—the shapes of cookies—cake electrations.

Climage or Seasons—Plan lunches that include more hot foods in cold weather—more cold foods and salads in warm weather.

Availability of Foods—Plan lunches that include foods "in season." Serve fresh foods when they are plentiful and at the peak of quality.

REMEMBER:

Food Cont-Plan lunches that are within the food budget.

- Make maximum use of USDA donated foods and foods in plentiful supply.
- Check food inventories and schedule the use of both USDA-donated and locally purchased foods.
- Use standardized recipes and portion control.
- Balance the use of high-cost and low-cost food items within the period of time for which lunches are planned.

Facilities—Plan banches that can be prepared and served with the facilities and equipment available.

- Consider oven, súrface-cooking, steamer space and refrigeration.
- Consider the numbers and kinds of serving tools and dishes needed to serve each menu.

Personnel—Plan lunches that can be prepared by the employees in the time available:

- Consider the amount of hand preparation required for each menu.
- Schedule employees' time so that their particular skills can be used to best advantage.
- · Balance work load from day to day and week to week.









TYPE A FOODS

		I I FE A PUR				
MEAT AND		VEGETABLES AND FRUITS	, -	BREAD	BUTTER OR	MILK
MEAT ALTERNATE	Include a VITAMIN A vegetable or fruit at least twice a week ¹	Include a VITAMIN C vegetable or fruit several times a week ²	Include these vegetables and fruits as needed	(enriched or whole grain)	MARGARINE	1VALL-/D.
Cheese Cheddar Cottage Swiss Dry beans Dry peas Eggs Dried, whole Frozen, whole Shell Fish and shellfish Meat—canned, dried, fresh and frozen Beef Lamb Pork Veal Variety meats and luncheon meats Frankfurters Livers and other organ meats Luncheon meats (including bologna, liverwursts) Peanut butter Poultry—canned, fresh and frozen Chicken Turkey Protein-fortified, enriched macaroni (when mixed with meat, poultry, fish or cheese) Textured vegetable protein (when mixed with meat, poultry, or fish)	Vegetables and Fruits A ¼ cup serving (about 1500 or more International Units of vit. A) Beet greens Carrots Chard, Swiss Chili peppers, red³ Collards³ Coress, garden³ Dandelion greens³ Kale³ Mixed vegetables (frozen) A ¼ cup serving (about 750-1500 International Units of vit. A) Apricots Broccoli³ Cantaloup³ Chicory greens A ¼ cup serving (about 750-1500 International Units of vit. A) Asparagus, green³ Cherries, red sour Chili peppers, green (fresh)³ Endive, curly Escarole Nectarines Mustard greens² Peas and carrots (frozen) Peppers, sweet red³ Pumpkin Squash, winter (acom, butternut, Hubbard) Sweetpotatoes³ Turnip greens³ Papayas³ Purple plums (canned) Papayas³ Purple plums (canned) Peaches (except canned; Prunes Tomatoes³ Tomatoes² Tomatoes² Tomatoes³ Tomatoes³ Tomatoes³ Tomatoes²	Vegetables and Fruits A 1/4 cup serving (about 25 milligrams or more of vit. C) Acerola Orange juice Broccoli' Oranges Brussels sprouts Chili peppers, red' and green Guavas A 1/4 cup serving (about 15-25 nilligrams of vit. C) Cauliflower Collaids' A mangoes' Grapefruit Grapefruit Grapefruit Grapefruit Grapefruit Grapefruit-orange juice Kale' Kale' Tangerines A 1/4 cup serving (about 8-15 milligrams of vit. C) Asparagus Cabbage Cantaloup' Dandelion greens' Honeydew melon Okra Potatoes (baked, boiled or steamed) Potatoes (reconstituted instant mashed—vitamin C restored) Raspberries, red Rutabagas Vegetables and Fruits A 1/4 cup serving (about 5-25 milligrams of vit. C) Asparagus Sauerkraut Spinach' Sweet potatoes' (except those canted in sirup) Tangelos Tomatoes Turnip greens' Turnips	Vegetables and Fruits Apples Applesauce Avocados Bananas Beans, green or wax Beans, lima, green Bean sprouts Beets Berries (*Lack, bluc, etc.) Celery Chinese cabbage Corn. Cranberries Cranberry sauce Cucumbers Dates Eggplant Figs Frbit cocktail Fruits for salads Grapes Lettuce Mixed vegetables (canned) Mushrooms Olives Onions Parsley Parsnips Peaches (canned) Peas, green, immature Cowpeas, immature seed Pimientos Pineapple Plums Potatoes (mashed, fried, etc.) Radishes Raisins Rhubarb Squash, summer Watercress Watermelon	Group 1 (25 gms.) Bagels Biscuits Boston brown bread Buns (all types) Cornbread English muffin French or Vienna "Fry" bread Italian bread Muffins Pretzels (soft) Pumpernickel Raisin bread Rolls Rye bread Salt sticks Stuffing (bread) Syrian bread (flat) White bread Whole wheat bread Group 2 (20 gms.) Bread sticks (dry) Graham crackers Melba toast "Pilot" bread Rye wafers Saltine crackers Soda crackers Taco shells Zwieback Group 3 (30 gms) Dumplings Hush puppies Meat pic crust Meat turnover crust Pancakes Pizza crust Popovers Sopapillas Spoonbread	Butter Margarine, fortified with 15,000 I.U. vitamin A per pound	Milk, fluid whole lowfat skim cultured buttermilk
, .	^		Fruit juices (apple, grape, pineapple, etc.)	Tortillas Waffles	,	
	~-0	<u> </u>	-			
Meat and Meat Alternate: Dry beans and peas Eggs Meats in general especially liver (liverwurst) and other organ meats Peanut butter Poultry Shellfish, Tuna	Apples (canned) Asparagus Beans—green, wax, lima Berries Dried fruits—apricots, dates peaches, prunes, raisins Peas, green, immature Cowpeas, immature seed Purple plums (canned) Rhubarb	Dark green leafy—beet greens, chard, collards, endive, escar		Breads, enriched or whole grain: Biscuits Boston brown bread Combread Loaf Muffins Rolls		` \
		mostables and forth the advertables and fruits listed below will	See listing of Vitamin C foods.	Foods for Iron-becau	use of the way from is distril	uited among many foods

a Vitamin A vegetables and fruits—the regetables and fruits listed below will supply at least 750 International Units of Vitamin A per 1/2 or 1/2 cup serving vegetables and fruits are served at least twice a week in recommended regetables and fruits are served at least twice a week in recommended end with a variety of additional vegetables and fruits used to meet the table and fruit requirement (10- to 12-year old boys and girls), the clouter or fortified margarine, and the ½ pint fluid milk regulared in each lunch, the Vitamin A content of the lunch will generally meet or account the 1550 intervalibual Units must fur the lunch.

² Vitamin C vegetables and fruits—the vegetables and fruits listed below will supply about 8 milligrams or more Vitamin. C (ascorbic acid) per 1/2 cup serving. When these vegetables and fruits are served several times a week in recommended amounts along with a variety of additional regetables and fruits to meet the 2/4 cup vegetable and fruit requirement (10-70 (12-year old boys and girls), and the 1/2 pint of fluid milk required in lunches each day, the average daily Vitamin C content of the lunch will generally meet or exceed the 13 milligram and the 1/2 pint of the lunch. coal for the lunch.

<sup>See listing of Vitamin C foods.

See listing of Vitamin A foods.

One ounce provides more than 1500 International</sup>

Units of Vitamin A.

^{*} Foods for Iron- because of the way iron is distributed among many foods (meats, vegetables and fruits and breads), it is recommended that each lunch include several foods that are worthwhile sources of iron in sufficient quantities for the age group served. The list of foods for iron includes meat and meat alternate foods that supply at least 1.0 milligram of iron per serving and vegetables, fruits, breads and other foods that supply 0.6 milligram of iron per serving. The goal for iron for the lunch is 5.0 milligrams,

Steps in Planning a Type A Menu*

Step 1

Select a meat or meat alternate

Include 2 ounces of cooked meat or the equivalent as specified in the Type A pattern.

Plan to use a meat or meat alternate in the main dish—alone or in casseroles, stews, loaves of are in the main dish and one other menu item—soups, salads, sandwiches or desserts. From a nutritional standpoint, it is desirable to include an "extra" source of protein (meat, cheese, peanut butter) when eggs, luncheon-type meats, dry beans or dry peas are used as the main meat or meat alternate in the lunch.

REMEMBER—Cooked dry beans or dry peas may be counted as a meat alternate or a vegetable—not as both in the same lunch.

—A 2-ounce portion of a commercially prepared cheese product (cheese food or cheese spread) will meet only ½ of the meat alternate.

Textured vegetable protein products are allowed as a meat alternate when no more than 30 percent of the hydrated protein products are mixed with 70 percent uncooked meat, poultry or fish. (See USDA fact sheet.)

—Protein fortified, enriched macaroni-type products—one ounce of dry macaroni or spaghetti (½ to ¾ cup cooked) may be used as one ounce of meat alternate when mixed with one ounce of cooked meat, poultry, fish or cheese in a main dish. (See USDA fact sheet.)

Step 2

Choose the vegetables and fruits

Include 2 or more servings of vegetables and/or fruits in amounts to total 34 cup.

Plan to use vegetables raw or cooked—alone or combined in salads, casseroles, stews. Plan to use fruits raw or cooked—alone or combined in salads, fruit cups, desserts.

For lists of vegetables and fruits that are sources of vitamin A, vitamin C and iron, see the chart—Foods for Type A School Lunches (page 10).

REMEMBER—Full-strength vegetable or fruit juice may be counted to meet no more than ¼ cup of the vegetable-fruit requirement. A ½ cup serving of a fruit juice drink (50 percent juice) provides ¼ cup juice.

—Cereal foods such as macaroni, spaghetti, noodles, rice and hominy are considered Other Foods and do not meet the vegetable-fruit requirement.

—Menu items such as fruit cocktail, peas and carrots, and combination salads are considered as only one serving of a vegetable or fruit.

Step 3

Decide on an appropriate bread

Include 1 or more portions of bread made with whole-grain or enriched flour or meal.

Plan to use bread as an accompaniment to the lunch—or in sandwiches.

Plan to use a bread which will "go well" with the main dish and other items in the lunch.

REMEMBER Unenriched crackers are considered Other Foods and do not meet the bread requirement.

Step 4

Include butter or fortified margarine Plan to use 1 teaspoon of butter or margarine as a spread for bread or in the preparation of the lunch.

REMEMBER—The use of butter or fortified margarine as a spread for bread is optional only when the required amount is used in food preparation.

Step 5

Include milk Plan to use ½ pint fluid milk as a beverage.

Use nonfat dry milk in cooking to keep cost down and nutritive value up.

REMEMBER—Nonfat dry milk and fluid milk used in food preparation may not be counted toward meeting the milk requirement.

Step 6

Add a dessert and other foods as needed Plan to use a dessert and Other Foods for appetite appeal and to increase the nutritive value of the lunch. Include foods for iron frequently.

REMEMBER Desserts containing such foods as fruits, eggs, peanut butter, milk and enriched or whole-grain cereals, flour or meal are desirable.

*Amounts of foods used as examples are for 10- to 12-year old boys and girls. See Guide to the Amounts of Food for Boys and Girls of Specified Age (page 5).



For Each Lunch Use:

1 meat or meat alternate such as-

2 oz. cooked meat, poultry or fish.

2 oz. cheese,

1 egg.

1/2 cup cooked dry beans or dry peas.

4 tablespoons peanut butter.

A combination of meat and meat alternates such as---

1 oz. cooked meat + 1 oz. cheese.

1 oz. cooked meat + 1/4 cup cooked dry

i oz. cooked poultry + 1/2 egg.

1 oz. cooked fish + 1 oz. cheese.

1 oz. cheese + 2 Tbsp. peanut butter.

Cheeseburger—Pickle Chips and Onion Ring Garnish

A cheeseburger combines two of the meat and meat alternates listed in the Type A pattern and makes an inexpensive main dish. It is easy to prepare, cooks quickly and is an alltime favorite.

The pickle chips and onion rings are added for texture and flavor contrast.

Mayonnaise, mustard or catsup may be added for taste appeal.

For Each Lunch Use:

2 servings such as-

½ cup vegetable + ¼ cup fruit.

1/2 cup vegetable + 1/4 cup vegetable.

3/8 cup (6 Tbsp.) vegetable + 3/8 cup (6 Tbsp.) fruit.

3 servings such as-

1/4 cup vegetable + 1/4 cup vegetable + 1/4 cup fruit.

1/4 cup vegetable + 1/4 cup vegetable +

1/4 cup fruit juice. 13/8 cup (6 Tbsp:) vegetable + 1/4 cup (4

Tbsp.) vegetable + 1/8 cup (2 Tbsp.) fruit.

For Each Lunch Use:

1 slice of bread—any variety or

1 roll, biscuit or mussin or

1 portion of cornbread or other hot bread.

Polka Dot Corn

Buttered Broccoli Spears

These selections of vegetables with the cherries in the dessert meet the vegetable-fruit requirement. They make a pleasing color combination and the flavors are varied-from mild to strong and sweet to tart. The broccoli provides vitamin A, vitamin C and iron.

A school-made bun, plain or split, buttered and toasted, completes the cheeseburger-so popular with chifdren.

Butter on the bun or as a seasoning for the

vegetables or in the Cherry Crisp adds taste

For Each Lunch Use:

1 tsp. butter or margarine on bread or in sandwich or

½ tsp. on bread + ½ tsp. in food preparation or

1 tsp. in food preparation.

. Butter

appeal.

Milk is the beverage.

For Each Lunch Use:

½ pint fluid milk.

For Each Lunch Use: A dessert and Other Foods as needed to complete the lunch.

Cherry Crisp

The crisp topping adds energy and iron to the lunch. Rolled wheat used in the topping adds a different flavor.





The thoughtful planning of menus for a month at one time helps assure a good variety of foods, increased use of USDA-donated foods, economy in buying, and effective use of facilities and employees' time and skills. To plan menus for a month, use the Type A lunch pattern and the chart for the amounts of food for boys and girls of specified ages as guides and keep the following points in mind:

PLAN THE MEAT AND MEAT ALTERNATE MAIN DISHES FOR THE PENTIRE PERIOD

- Plan to use a variety of main dish items during the month.
- Include meat and meat alternates that are sources of iron as frequently as possible.
- If a meat or meat alternate is repeated during the month, vary the vegetables and fruits used.
- Follow a plan for providing a good variety of meat and meat alternates in the main dishes. For example, in each four week period, plan to meet the meat and meat alternate requirement by serving:

CHOOSE THE VEGETABLES AND FRUITS

- Plan vegetables and fruits that "go well," with each main dish and each other.
 Use a different combination of two or more servings of vegetables and fruits each day. Include various forms of vegetables and fruits—raw or cooked; fresh, canned, frozen or dried.
- See chart—Foods for Type A School Lunches (page 10) for lists of vegetables and fruits that are sources of vitamin A, vitamin C and iron.

SELECT A VARIETY OF BREADS

- Use an enriched or whole-grain bread which will "go well" with the main dish and other items in each lunch.
- Plan to use a different kind of bread each day.
- Include school-made loaf breads or hot breads such as rolls, sandwich buns, muffins, biscuits, brown bread, cornbread, as often as possible. (See list of Breads, page 11.)

INCLUDE BUTTER OR FORTIFIED MARGARINE

• Plan to use butter or margarine for each lunch each day as a spread for bread or in preparation of the lunch.

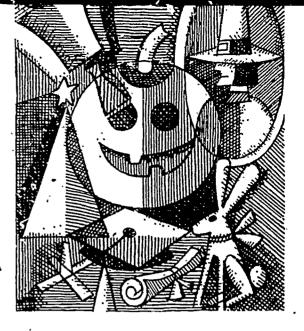
INCLUDE MILK.

• Use fluid milk as the beverage with each lunch.

ADD DESSERTS AND OTHER FOODS AS NEEDED

- Include desserts and Other Foods in the lunches to help meet the boys' and girls' needs for calories and other nutrients. See chart—Foods for Type A School Lunches (page 11) for list of Other Foods.
- Plan to use the more satisfying types of these foods—the enriched or whole grain cereals and other products such as macaroni, rice, bulgur and the richer desserts such as cakes and pies with the lighter lunches. Serve fruits and lighter desserts with the more hearty lunches.

Cycle Menus—An Approach to Menu Planning



In many schools a series of carefully planned menus, used and repeated in order for a definite period or cycle-of time, has been found to be a means of providing economical, nutritious lunches.

A cycle for a twenty to thirty day period can provide greater variety in menus, savings in time and money, and better controls of all other management activities. Food and labor requirements can be forecast more accurately; more effective use can be made of equipment and labor hours in planning food production.

A shorter cycle for a seven, twelve, or eighteen day period may well be used to good advantage in meeting more specialized needs. For example—menus for a box or bag lunch, menus for a sandwich and salad, or menus for a low-calorie Type A lunch for a separate serving line to provide a choice in high schools, or menus cooperatively planned with student representatives for a Type A lunch to be served on the "speed line."

Lists of menu items for different seasons of the year, for hot and cold weather, for special occasions and holiday seasons will help provide a good variety of foods.

BEFORE PLANNING 'CYCLE MENUS:

Decide on the Type of lunches to be planned and the length of cycle. The length of the cycle menu will vary depending on local needs and situations, such as the season of the year.

PLAN MENUS CAREFULLY FOR THE PERIOD SELECTED

Keep in mind the points to consider in planning menus. Use the Type A lunch pattern and chart to "Guide to the Amounts of Food for Boys and Girls of Specified Ages" (page 5). Follow the six steps in planning a menu and consider the pointers on how to plan menus.

Flexibility is the keynote—menus should be reviewed frequently to make adjustments in changes in availability of USDA-donated foods; to take advantage of an especially good buy or a seasonal food; to provide a suitable lunch for a holiday or special celebration; to substitute a more acceptable method of preparation.

REMEMBER

Cycle or rotating menus will not put an end to menu planning, but when properly planned and efficiently used, they can be an effective management tool.

If the cycle is short, the number of days in the cycle should not be a multiple of c so a menu will not reappear on the same day of the week each time the cycle repeated.

How to Evaluate Menus

After the menu items, recipes and serving sizes for the age roups to be served have been planned and recorded, check menus against the questions below. Follow through on the total job of planning menus—determine the total amounts of foods needed, estimate cost and prepare purchase orders and work schedules.

Do lunches meet Type A requirements?

Are all five components of the lunch included?

Are serving sizes sufficient to provide 10- to 12-year old boys and girls at least:

2-ounces of a meat or meat alternate or the equivalent as specified in the Type A pattern?

34 cup serving consisting of two or more vegetables or fruits or both?

1 serving of enriched or whole-grain brad?

1 teaspoon of butter or fortified margarine?

½ pint fluid milk as a beverage?

Refer to the Guide to the Amounts of Food for Boys and Girls of Specified Ages, page 5.

Do lunches meet the nutritional goal?

Is a VITAMIN A vegetable or fruit included at least twice a week?

Is a VITAMIN C vegetable or fruit included several times a week?

Are several foods for IRON included each day?

Are servings of Type A foods planned and Other Foods included to meet nutritional needs of boys and girls of various age groups and satisfy their appetites?

Are the combinations of foods pleasing and acceptable to children?

, Do lunches include a good balance of.

Color—in the foods themselves or as a garnish?

Texture—soft and crisp or firm textured foods?

-starchy and other type foods?

Shape—different sized pieces and shapes of foods? Fiavor—bland and tart or mild and strong flavored

feods?

Temperature—hot and cold foods?

Are most of the foods and food combinations ones children have learned to eat?

Have children's cultural, ethnic, and religious food practices been considered?

Is a popular food or dish planned for a lunch which includes a "new" or less popular food?

Are festive foods included for holidays, birthcays, school affairs?

Are foods varied from day to day? Week to week?

Are different kinds or forms of foods (fresh, canned, frozen, dried) included?

Are seasonal foods included?

Have "new" foods or new methods of preparation been included occasionally?

Can lunches be prepared and served successfully by employees in the time available?

Are lunches planned so that some preparation can be done ahead?

Is work load balanced among employees from day to day?

Can lunches be prepared and served with facilities and equipment available?

Is oven, surface-cooking or steam-cooking space adequate for items planned for each lunch?

Are proper sized cooking and serving utensils available?

Can foods planned for each lunch be easily served? Will foods "fit" on dishes or compartment trays?

Has cost of lunches been considered?

Have USDA-donated foods been used to best advantage?

Have "plentiful" foods been included as often as practicable?

Have foods in inventory been used to the extent possible?

Do high- and low-cost foods and lunches balance?

Week and of Lunches	MENU	of ing	Plan the K	Kind and Amounts of Focc	Is Ne	eded 		he Numb	er to be S	erved	
Day of Wi Number of		Size of Serving	Meat and Meat Alternate	Vegetables and Fruits	Vitamin A C Iron			Bread	Butter or Margarine	Milx	Other Foods
MONDAY Planned: 300 Served: Children Adults Total	Country Fried Steak D-2 /Brown Gravy Oven French Fried Potatoes Buttered Broccoli Sliced Peaches Buttered Cornmeal Yeast Roll B-8 Milk Food cost per lunch	1/4 c 1 2 c 1/4 c 1/4 n	Ground Beef 17.5 lb×3 = 52-1/2 lb D-26 (3×recipe)	Polatoes, French Fries, Regular Crinkle cut 13 6 lb×3 = 41 lb Broccoli, Frozen Chopped 11.6 lb×3 = 35 lb Peaches, Canned Sliced 2.1/10×3=6·1/2/10	1	, y	√ √ √	B-8 Cornmeal Yeast Ro.i (3×recipe)	Broccoli 1-3/4 lb Roli 1-1/2 lb 3-1/4 lb	-300 1/2 pt	
TUESDAY Planned: 300 Served: Children Adults Total	Oven-Fried Chicken D-3 Parsley Rice B-2 Savory Peas J-1: Chilled Fruit Cup (1/4 c pineapple 1/8 c grapefruit 1 8 c banana) Roll B-1 Butter (on peas & roll) Milk Chocolate Chip Cookies C-2 Food cost per lunch	1, 3 c 1, 4 c 1, 2 c 2 1 roll 1 tsp 1 2 pt	Chicken, frying 41.75 lb×3 = 125-1/4 lb D-39 (3×recipe)	J-18 (1.5×recipe) Canned Green Peas 4 67/10×1.5=7/10 Onions 1.12 lb×1.5=1-3/4 lb Fruit Cup (1/2 c) Canned Pineapple Chunks 2.15/10×3=6-1/2/10 Grapefruit Sections 2.23/3 cyl.×3=7/3 cyl. Bananas 6.2×3=18-3/4 lb		- √	√ √	P-12 Rolls (3×recipe)	J-18 Peas ** 3/4 ib Roli` 2-1/2 ib 	. 300 1/2 pt	B-2 Rice 12-1/2 lb (72-1/3 c (#12 scoop) in 1-1/2 Lui cook rice 3 lb) C-25a (3×recipe)
WEDNESDAY Planned: 300 Served: Children Adults Total	Fish Sticks/Catsup Confetti Corn Glazed Carrots J-1: Tossed Salad/Tomatoes E-1 & French Dressing French Bread B-9 Butter (on corn & carrots) Milk Gingerbread C-14	1 /4 c 1 serv. 1 tsp 1 /2 pt 1 serv.	4 oz Breaded Fish Portions 25 lb×3=-75 lb	Corn, Whole Kerne! Wet Pack 2.25/10×3=7/10 Pimiento, Green Pepper (Garnish) J-13a (1.5×recipe) Carrots 27 lb×1.5=40-1/2 lb E-18b (1.5×recipe) Lettuce 5.5 lb×1.5=8-1/4 lb Spinach 1.4 lb×1.5=2-1/4 lb Onions. 84 lb×1.5=1-1/4 lb Tomatoes 6.4 lb×1.5=9-3/4 lb Radishes 2.2 lb×1.5=3-1/2 lb		✓	V	B-9 French Bread (1.5× recipe) 15 loaves 20 slices each	Corn 1 b J-13a Carrots 2-1/4 b 3-1/4 b	300 1/2 pt	Catsup C-14 Gingerbread (3×recipe)
THURSDAY Planned: 300. Served: Children Aduits Total	Lasagna D-3 Seasoned Green Beans Cabbage Green Pepper Slaw E-7: Apricot Crisp C-3 Wheat Bread B-1 Butter (on beans & crisp) Milk Food cost per lunch	1/4 c 1,4 c 1,4 c (fruit)	D-31 (3×recipe) Ground Beef 8 lb×3 -24 lb Cheese 7.5 lb×3 -22-1/2 lb	Green Beans 2/10×3 = 6/10 E-7a (1.5×recipo) Cabbage 15.25 lb×1.5 = 23 lb Green Peppers 1.62 lb×1.5 = 2-1/2 lb C-3a (3×recipe) Canned Apricot Halves 3.12/10×3 = 9-1/2/10 Leinon Juice 3 oz×3-9 oz	√	V	1	B-13c Wheat Bread (1 recipe) 10 loaves 30 slices each	Beans 3/4 lb C-3a Crisp 2.5 lb×3= 7·1/2 lb 8-1/4 lb	300 1/2 pt	-
FRIDAY Plantied: 300 Served: Children \ Adults Total	Toasted Cheese Sandwich G-8 Potato Salad E-14 on lettuce Tropical Apples C-24 Butter (on sandwich, in apples) Milk Cinnamon Crispies C-11	1/8'c 1/4 c 1 tsp 1/2 pt	Cheese 12.5 lb×337-1/2 lb G-8 (3×recipe)	E-14 (3×recipe) Potatoes 18.25 lb×3 = 54-3/4 lb Celery 4 lb×3 = 12 lb Onions 1.12 lb×3 = 3-1/2 lb Lettuce 2.05 lb×3 = 6-1/4 lb C-24 (1.5×recipe) Apples, Canned 4/10×1.5 = 6/10 Oranges 3 lb×1.5 = 4-1/2 lb Lemons 1.34 lb×1.5 = 2 lb Pineapple Juice		√	, ,	G-8 Bread 17-2 lb loaves 600 slices	G-8 Butter on Sandwich 5-1/4 ib C-24 Apples 3 ib	300 / 1/2 pt	C-11 Cinnamon . Crispies (3×recipe)

Information Materials

PUBLICATIONS

- A MENU PLANNING GUIDE FOR BREAKFAST AT SCHOOL (FNS-7).
 Washington, D.C.: USDA, 1970.
- A GUIDE FOR PLANNING FOOD SERVICE IN CHILD CARE-CENTERS (FNS-64). Washington, D.C.: USDA, 1971.
- FOOD BUYING GUIDE FOR TYPE A SCHOOL LUNCHES (FA-270). Washington, D.C.: USDA, 1972.
- QUANTITY RECIPES FOR TYPE A SCHOOL LUNCHES (PA-631). Washington, D.C.: USDA, 1971.
- GUIDE FOR WAREHOUSING USDA-DONATED FOODS (PA-373). Washington, D.C.: USDA, 1959.
- FOOD STORAGE GUIDE FOR SCHOOLS AND INSTITUTIONS (PA-403).
 Washington, D.C.: USDA, 1959.
- NUTRITIVE VALUE OF FOODS (Home and Gard, Bul. No. 72). Washington, D.C.: USDA, S1. rev., January 1971.
- COMPOSITION OF FOOD—RAW, PROCESSED, PREPARED (Handbook No. 8). Watt, B. K. and Merrill, A. L., Washington, D.C.: USDA, 1963.
- RECOMMENDED DIETARY ALLOWANCES, Revised 1968 (Publication No. 1694). Washington, D.C.: National Research Council, National Academy of Sciences, 1968.
- NATIONAL SCHOOL LUNCH PROGRAM (PA-19). Washington, D.C.: USDA, July 1971.
- CHILD NUTRITION PROGRAMS (PA-948). Washington, D.C.: USDA, March 1971.
- FOOD FOR FITNESS—A DAILY FOOD GUIDE (Leaslet No. 424). Washington, D.C.: USDA, S1. rev., December 1971.
- NUTRIENTS AND FOODS FOR HEALTH (FNS-97). Washington, D.C.: USDA, May 1973.



The Following Instructions, Notices and Information Sheets Issued by the Child Nutrition Division, Food and Nutrition Service, USDA, Further Interpret the National School Lunch Regulations, Establish Policies, or Provide Additional Information Concerning the Operation of USDA's Child Nutrition Programs:

INSTRUCTIONS .

- GUIDELINES FOR THE AMOUNTS OF FOODS TO BE SERVED CHIL-DREN OF SPECIFIED AGES (FNS-CN-Instruction 783-4). Washington, D.C.: USDA, 1971.
- " SUBSTITUTIONS IN MEALS SERVED UNDER NATIONAL SCHOOL LUNCH AND CHILD NUTRITION ACT PROGRAMS BECAUSE OF MEDICAL AND OTHER SPECIAL DIETARY REASONS (FNS-SL-Instruction 783-2). Washington, D.C.: USDA, 1969.
- POLICY REGARDING VITAMIN C. RESTORED VEGETABLES AND FRUITS IN EVALUATING TYPE A SCHOOL LUNCHES (CFP-SL-Instruction 783-1). Washington, D.C.: USDA, 1968.
- GUIDELINES FOR THE AMOUNTS AND USE OF NONFAT DRY MILK, WHOLE DRY MILK, AND CANNED EVAPORATED MILK WHICH ARE EQUIVALENT TO ONE-HALF PINT OF WHOLE FLUID MIL. FNS-CN- Instruction 783-0). Washington, D.C.: USDA, March 1972.

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NOTICES,

- PROTEIN-FORTIFIED, ENRICHED MACARONI-TYPE PRODUCTS TO BE USED IN COMBINATION WITH MEAT OR CHEESE FOR USE IN LUNCHES AND SUPPERS SERVED UNDER CHILD FEEDING PRO-GRAMS (FNS Notice 218). Washington, D.C.: USDA, February 22, 1971.
- TEXTURED VEGETABLE PROTEIN PRODUCTS TO BE USED IN COM-BINATION WITH MEAT FOR USE IN LUNCHES AND SUPPERS SERVED UNDER CHILD FEEDING PROGRAMS (FNS Notice 219). Washington, D.C.: USDA, February 22, 1971.

INFORMATION SHEETS

- INFORMATION ON USING PROTEIN FORTIFIED, ENRICHED MACA-RONI-TYPE PRODUCTS IN CHILD NUTRITION PROGRAMS (FNS). Washington, D.C.: USDA, September 1972.
- INFORMATION ON USING TLXTURED VEGETABLE PROTEIN IN CHILD FEEDING PROGRAMS (FNS). Washington, D.C.: USDA, November 1971.

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FOOD AND MUTRITION BOARD, NATIONAL ACADEMY OF SCIENCES (NATIONAL RESEARCH COUNCIL RECOMMENDED DAILY DIETARY ALLOWANCES, Revised 1968

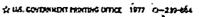
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	Females	10-12	35 77	142	56	2250	50	4500	490	20	40	0.4	15	1.3	1.1	1.4	5	1.2	1.2	110	18	300.
		12-34	44 97	154	61	2300	50	5000	450	20	45	0.4	15	1.4	12	1.8	5	1.3	1 3	:15	18	353
		14-16	52 114	157	62	2439	55	500	493	25	50	0.4	16	1.4	1.2	1.8	5	1.3	-	129	18	350
ļ	İ	16-18	54 119	160	63	2350	55	5000	400	25	50	0.4	15	1 5	1.2	2.0	5	1.3	1.3	115	18	350
	į	18-22	58 125	163	64	2500	55	5000	405	25	55	0.4	13	1.5	4.0	2.0	5 •	J.8	0.8	190	18	350
l		22-35	58 128	163	64	2000	55	5500		25	\$3	0.4	13	1.5	10	2.0	5	0.8	0.8	100	18	300
اً		35-55	58 128	160	63	1850	55	5700		25	55	0.4	13	1.5	1.0	2.0	5	0.8	0.8	\$ 0,	18	320
		55-75+	-58° 128	157	ęs	1700	55	5000		25	55	0.4	13	1 5	1.0	2.0	6	8.0	0.8	ಬ	10	300
	Preznancy					+200	65	6400	400	33	60	0.8	15	1.8	+0.1	2.5		+0.4	+0.4	125	18	150
Ì	Laviation		1	•	•	+1000,	75	8000	400	39	ស	0.5	20	2.0	+0.5	2.5	6	÷0.5	+0.5	150	18	450

^{1.} The assistance savers are intended to cover individual variations among most normal persons as they save in the United States under obtain environments) acressed in the recommended a row ances can be attained with a variety of common foods, providing other nutrients for which however requirements have been less well defined. See text for more dark and accessing of allow ances and of nutrients not reputated.

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^{2.} Estries on times for age range 22-45 years represent the reference man and moman at age 22. All Other eather represent allowances for the midpoint of the specified age range.

 $[\]omega$. The custom allowances rates to create society as detainmined by cartifications cates assay. Final forms of Israein may be effective in doses less than ϵ_1 4 of the Rich.

^{4.} Nation equivalents include dietary sources of the situmin itself $\mathfrak g$ has 1 $\mathfrak m \mathfrak g$ equivalent for each 60 mg of dietary tryptophan.

^{5.} Assumes profess equivarient to human milk less proteins and exceptions by used facts should be increased proportionally.

MENU PLANNING WORKSHEET

Week of	•••••••			•	-	À			 .				
Day of Week and Number of Lunches	MENU	Size of Serving	Plan the Kind and Amounts of Foods Needed for the Number to be Served										
of Lunches	173 bat Wile	Size	Meat and Meat Alternate	Vegetables and Fruits	Check Vitamin A C		Butter or Margarine	Milk	Other Foods				
MONDAY Planned:		·			AC	iron	Margarine						
Servad: Children Advits			,				,		· .				
Total	Food cost per lunch	<u> </u>				4			:				
Planned:	•		•					-					
Served: Children Adults	•		· ,										
Total	Food cost per lunch												
WEDNESDAY Planned:	·		·			·			•				
Served: Children Adults	•	ř	•	7									
Total	· Food cost par lunch	·	,	·					-				
THURSDAY Planned:		T	•						·				
Served: Citildren + . Adults		•							,				
Total	Food cost per lunch			\dot{r}				.					
FRIDAY Planned:		*				<u></u>							
Served: Children Adults	· · · · · · · · · · · · · · · · · · ·		-	•					•				
Total	Food cost per lunch		•	• •		•		}	,				
EDIC.	1	•	•		1 1 1	ı	. , i	- 1					