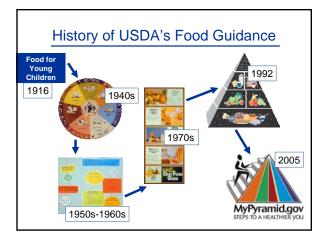
MyPyramid Food Guidance System Background and Update Trish Britten USDA Center for Nutrition Policy and Promotion United States Department of Agriculture Center for Nutrition Policy & Promotion



Food Intake Patterns

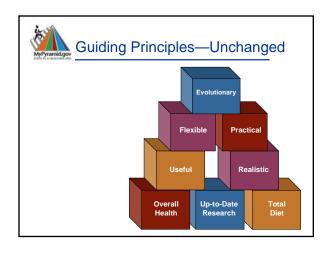
- · Basis for all of MyPyramid's advice
- Identify what and how much to eat
- Designed to meet DRI and DGA recommendations
 - 12 patterns for varying population groups and energy needs
 - Amounts to be met on average over time, not each day

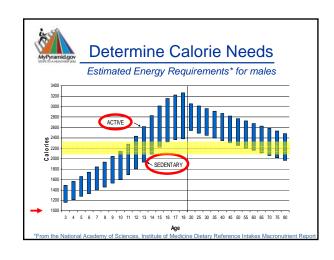




Developing MyPyramid's Food Intake Patterns

Determine nutrient goals and calorie needs for population groups

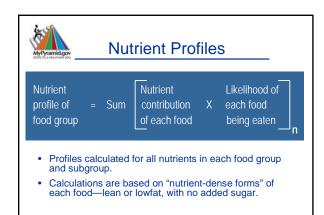






Developing MyPyramid's Food Intake Patterns

- Determine calorie needs and nutrient goals for population groups
- 2. Establish food groups
- 3. Calculate <u>nutrient profiles</u> for each food group





Nutrient Profiles

Answers the question: What nutrients can be expected from consuming a given amount of each food group?

For example: What is the vitamin A content of a typical dark green vegetable?





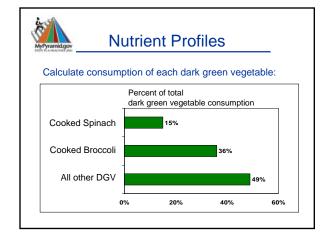


Cooked Broccoli 153 µg per cup



Developing MyPyramid's Food Intake Patterns

- Determine calorie needs and nutrient goals for population groups
- 2. Establish food groups
- 3. Calculate nutrient profiles for each food group
- Determine recommended amounts from each food group





Constructing Intake Patterns

- Establish initial amount from each food group
- · Compare resulting nutrient content to nutritional goals
- · Change amounts from food groups stepwise
 - Identify groups or subgroups that are the most feasible nutrient sources
 - Check amounts recommended against typical consumption
- Remaining calories after nutrient needs met identified as "discretionary calories"



Intake pattern - 2000 calories

Grains 6 ounce equivalents (≥ 3 oz whole)

Fruits 2 cups Vegetables 2 ½ cups

-Dark green 3 cups per week
-Orange 2 cups per week
-Dry beans & peas 3 cups per week
-Starchy 3 cups per week
-Other 6½ cups per week
Meat & Beans 5½ ounce equivalents

Milk 3 cups

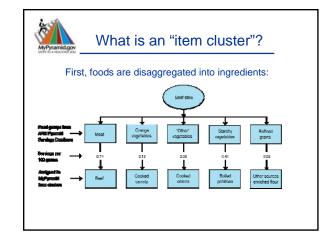
Oils Allowance 27 grams (6 tsp) Disc Cal Allowance 267 calories





Current work—Updating MyPyramid Intake Patterns

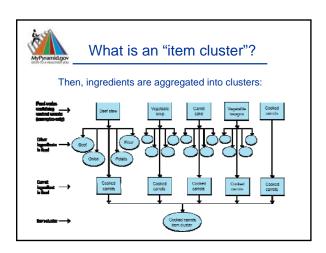
- In process—preliminary results only at this time
- Update will be complete in time for your consideration and potential use

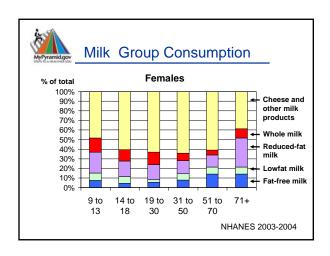


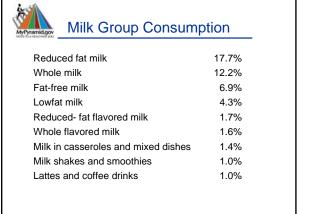


Current work—Updating MyPyramid Intake Patterns

- Milk Group—Develop nutrient profile
- Vegetable Group—Refine and update nutrient profiles and reassess subgroups
- Update all nutrient profiles with current nutrient and consumption data
- Develop tiers within each food group, based on SoFAAS content









Milk Group Nutrient Profile

Developed 65 item clusters:

- Unflavored and flavored milks
- Milk in soups, sauces, etc
- Yogurts
- Natural and processed cheeses
- Cheese in pizza, Mexican dishes, casseroles, etc.
- Ice creams
- Soymilk



Milk Group Consumption

Reduced-fat cheese on pizza	8.5%
Natural cheeses	7.1%
Cheese (not specified)	3.7%
Cheese in Mexican dishes	3.6%
Processed cheese	3.3%
Regular cheese on pizza	2.2%
Cheese in pasta and Italian dishes	2.0%
Cheese on sandwiches	1.8%
Ice cream-regular and rich	1.6%
Cheese spreads, dips, sauces, soups	1.5%
Cheese in egg/meat dishes and frozen meals	1.0%



Milk Group Nutrient Profile

Development process

- Identify item clusters
- Calculate consumption of each
- Choose representative food for each
- Calculate nutrient profile



Milk Group Nutrient Profile

Current work:

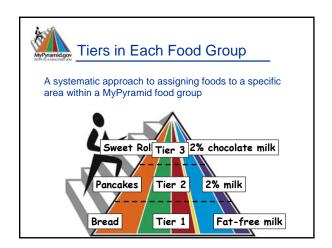
- Select a fat-free or lowfat, no-added sugars version of milk, yogurt, or cheese to represent each item cluster
- Calculate a consumption-weighted nutrient profile for the milk group



Vegetable Group Nutrient Profiles

Development process

- Identify expanded item clusters
- Calculate consumption of each
- Choose representative food for each
- Calculate nutrient profile
- Reassess subgroup assignments





Vegetable Group Nutrient Profiles

Original Item clusters **Expanded Item clusters**

(N=45)(N=99)

Sweet red, sweet green, hot **Peppers**

red, hot green

Green beans Green beans, snow peas,

asparagus, okra, artichokes

Boiled potatoes, French fries, **Boiled potatoes**

potato chips, home fries



Tiers in Each Food Group

Why?

- Operationalize discretionary calories
- Identify foods with high SoFAAS and high consumption
- Provide guidance for within food group choices



Vegetable Group Nutrient Profiles

Current work:

- · Calculate a consumption-weighted nutrient profile for each vegetable subgroup
- Identify potential changes in subgroups and/or subgroup assignments
 - To facilitate meeting nutrient goals
 - To better define foods in each subgroup







Tiers in Each Food Group

Potential applications:

- Target specific food groups and food choices for educational messaging
- Provide feedback to consumers on their diet quality and specific advice for improvement
- Determine how food choices by tier influence overall diet quality
- Monitor changes over time by food group



Tiers in Each Food Group

Development process:

- Select foods primarily in a single food group
- Calculate calories from SoFAAS
- Identify and test potential cutoffs for each tier
- Select final cutoffs and recommended consumption limits for upper tiers



Current work—Updating MyPyramid Intake Patterns

- · Milk Group nutrient profile
- · Vegetable Group nutrient profiles and subgroups
- · Update nutrient profiles for all groups
- · Develop tiers within each food group



Tiers in Each Food Group

Preliminary Results—Consumption from each Tier

Group	Tier 1	Tier 2	Tier 3
Milk	18%	47%	32%
Fruit	94%	2%	4%
Vegetables	62%	21%	16%
Meat &Beans	29%	41%	28%
Grains	45% Whole	48%	11%
	67% Non-whole	20%	10%



Questions?