

THE DAIRY ALLIANCE Wellness by the Glass

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Objectives

- Overview of the dairy checkoff
- Review dairy's role in the dietary guidelines
- Understand dairy's contributions to student health
- Review equipment grants available from The Dairy Alliance and the Virginia State Dairymen's Association



The Dairy Alliance







100 years of providing science-based nutrition information through nutrition education & researched-based communication.



www.usdairy.com



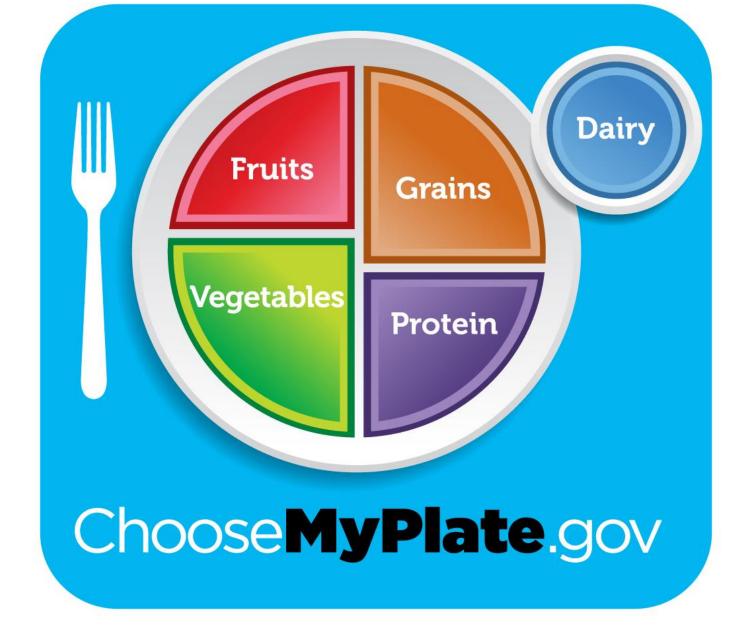


Dairy and the Dietary Guidelines

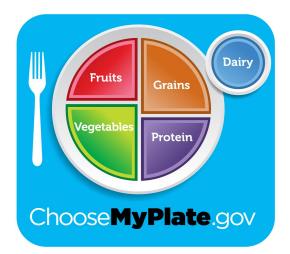


Make Every Bite Count With the Dietary Guidelines





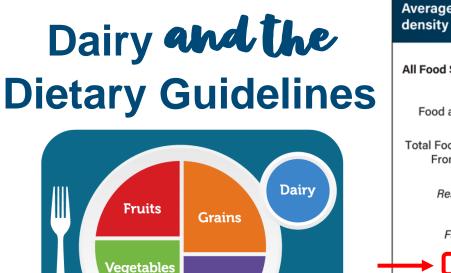




Dairy's Place in Recommendations

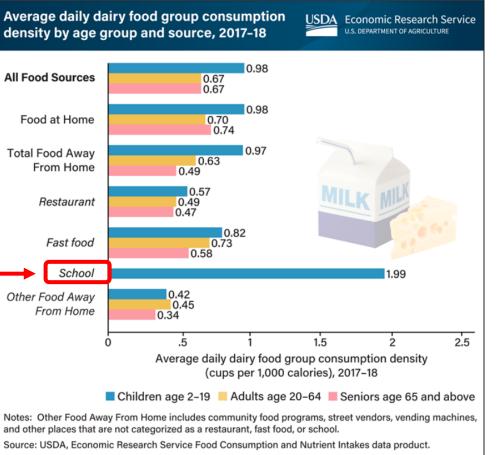
- A healthy eating pattern includes fat-free or low-fat dairy, such as milk, yogurt, cheese.
- "Fortified soy beverage" has been part of the dairy group since 2010
 - Good option for those with a milk allergy
- No other milk alternatives are part of the dairy group



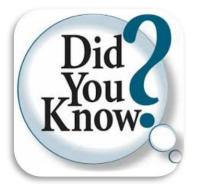


Protein

MyPlate.gov







77% of daily milk intake for low-income children comes from national school meal programs.







THE DAIRY ALLIANCE

DAIRY + PLANTS = SUPERFOOD POWER COUPLE of Nutrition

*Cifelli et al. Increasing Plant Based Foods or Dairy Foods Deferentially Affects Nutrient Intakes: Dietary Scenarios Using NHANES 2007–2010. Nutrients 2016, 8(7), 422; <u>https://doi.org/10.3390/nu8070422</u> <u>https://www.mdpi.com/2072-6643/8/7/422/html</u>



DAIRY + PLANT-BASED DIETS IMPROVED NUTRIENT INTAKES

Modeling Scenario	Improved Intakes	Insufficient Intekes
Double usually consumed plant-based foods	Magnesium Iron Folate Vitamin C Vitamin E	Calcium* Vitamin D* Vitamin A Protein
Double milk, cheese, and yogurt	Magnesium Iron Folste Vitamin C Vitamin E	

A 2016 modeling study – utilizing NHANES data, found a mix of plant foods and dairy foods had the best chance of closing nutrient gaps in common diet consumption patterns of Americans.

*Cifeliti et al. Increasing Plant Based Foods or Dairy Foods Differentially Affects Nutrient Intakes: Dietary Scenarios Using NHANES 2007-2010. Nutrients 2016, 8(7): 422; https://doi.org/10.3390/nu8070422 https://www.mbj.com/2072-6438/7/422/https://doi.org/10.3390/nu8070422

a nutrients

7,387 ≥ 2

DAIRY+ PLANTS: The SUPERFOOD POWER COUPLE of Nutrition

Dairy foods are an important part of healthy eating styles, especially for flexitarian and vegetarian diets, because they provide high-quality protein and essential nutrients that are often missing from these eating plans.

> Proteins from animal food sources are complete, high-quality proteins because they provide all 21 amino acids.

> > Milk provides 13 essential nutrients including protein, calcium, vitamins A & D and more!

> > > THE DAIRY

ALLIANCE



Dairy & Plant-Based Diets

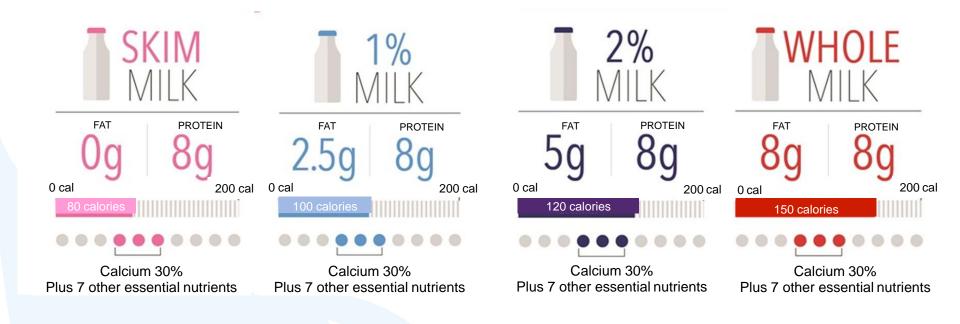


- Together they provide the 4 nutrients of public health concern
- Dairy is an important source of vitamin B12, found primarily in animal products
- Dairy is a source of high-quality complete protein with all the amino acids



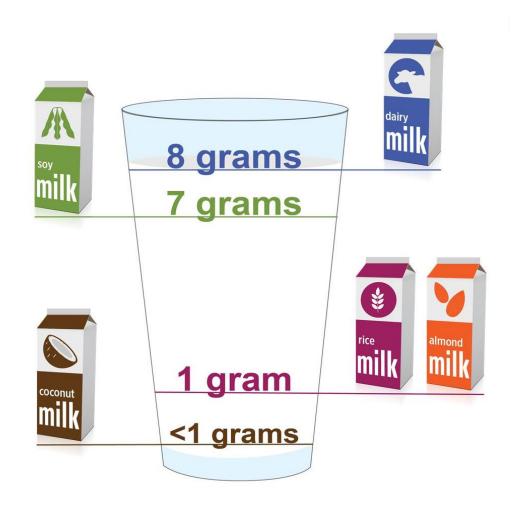
Dairy Fills Nutrition Gaps

What's in Your Pour?





Protein Comparison



*There is no standard of identity for milk alternatives so nutrition content may vary by brand



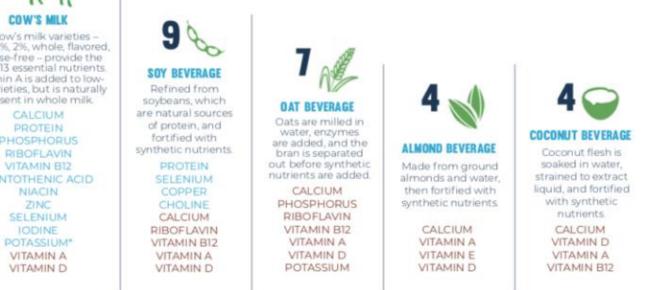


Compare the nutrient content of cow's milk to plant-based alternatives.



COW'S MIL All cow's milk varieties skim, 1%, 2%, whole, flavored, lactose-free - provide the same 13 essential nutrients. Vitamin A is added to lowfat varieties, but is naturally present in whole milk. CALCIUM PROTEIN PHOSPHORUS. RIBOFLAVIN VITAMIN B12 PANTOTHENIC ACID NIACIN ZINC SELENIUM IODINE POTASSIUM* VITAMIN A VITAMIN D

FACT: When compared side-by-side, real cow's milk contains more naturally occurring nutrients than other products sold as "milks." naturally occurring nutrient | added nutrient that does not occur naturally



*There is no standard of identity for milk alternatives so nutrition content may vary by brand



Ingredient Comparison



FAT FREE MILK, VITAMIN A PALMITATE, VITAMIN D³



ORGANIC COCONUT MILK (WATER, ORGANIC COCONUT CREAM), ORGANIC DRIED CANE SYRUP, CALCIUM PHOSPHATE, MAGNESIUM PHOSPHATE, CARRAGEENAN, GUAR GUM, VITAMIN A PALMITATE, VITAMIN D₂, L-SELENOMETHIONINE (SELENIUM), ZINC OXIDE, FOLIC ACID, VITAMIN B₁₂



SOYMILK (FILTERED WATER, WHOLE SOYBEANS), CANE SUGAR, SEA SALT, CARRAGEENAN, NATURAL FLAVOR, TRI-CALCIUM PHOSPHATE, CALCIUM CARBONATE, VITAMIN A PALMITATE, VITAMIN D₂, RIBOFLAVIN (B₂), VITAMIN B₁₂



ALMOND MILK (FILTERED WATER, ALMONDS), EVAPORATED CANE JUICE, CALCIUM CARBONATE, SEA SALT, POTASSIUM CITRATE, CARRAGEENAN, SUNFLOWER LECITHIN, VITAMIN A PALMITATE, VITAMIN D₂, D-ALPHA-TOCOPHEROL, (NATURAL VITAMIN E)



FILTERED WATER, BROWN RICE (PARTIALLY MILLED), EXPELLER PRESSED HIGH OLEIC SAFFLOWER AND/OR SUNFLOWER OIL AND/OR CANOLA OIL, TRICALCUIM PHOSPHATE, SEA SALT, VITAMIN A PALMITATE, VITAMIN D₂, VITAMIN B₁₂

*There is no standard of identity for milk alternatives so nutrition content may vary by brand



Wellness by the Glass





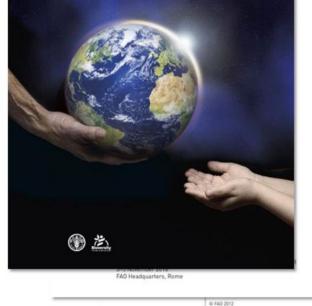
Sustainability



- · Low environmental impacts
- · Contribute to food and nutrition security & to healthy life
- Protective and respectful of biodiversity & ecosystems
- Culturally acceptable
- Accessible
- · Economically fair & affordable
- Nutritionally adequate
- Safe & healthy
- Optimize natural and human resources



DIRECTIONS AND SOLUTIONS FOR POLICY, RESEARCH AND ACTION



Proceedings of the International Scientific Symposium, BIODIVERSITY AND SUSTAINABLE DIETS UNITED AGAINST HUNGER,

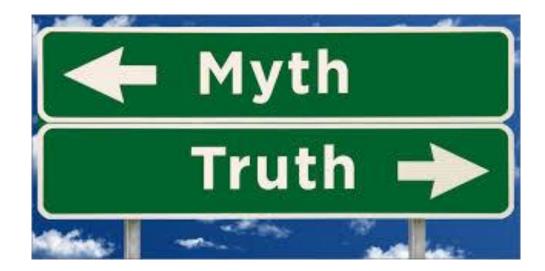








Can you tell the difference?





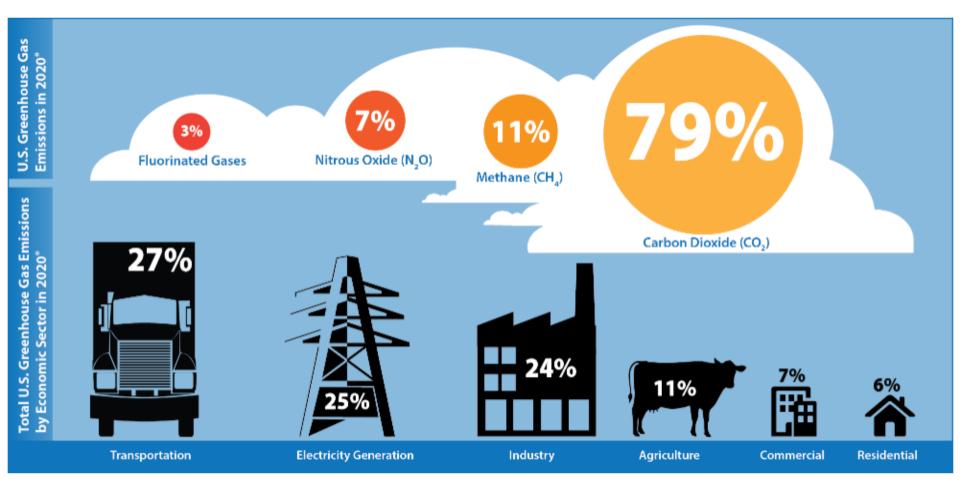
Animal agriculture produces more greenhouse gas emissions than all transportation (cars, trucks, planes, trains, ships).











* Percentages may not add to 100% due to independent rounding and the way the inventory quantifies U.S. territories (not shown) as a separate sector.

This includes crops AND livestock.

Source: United States Environmental Protection Agency. https://cfpub.epa.gov/ghgdata/inventoryexplorer/



DID YOU KNOW, PRODUCING A GALLON OF MILK **IS GETTING GREENER**

19% GHG less GHG emission

land to Co

30%

used From 2007-2017

America's dairy farmers are committed to feeding people while taking care of the planet.

Judith L Copper, Roger A Cody. The effects of improved performance in the U.S. dairy cattle industry on environmental Impacts between 2007 end 2017. **Journal of Animal Science, Volume** 98, Issue 1, January 2020, skz291. https://doi.org/10.1093/jos/skz291



Compared to other beverages, milk is much more expensive.





MYTH

- Milk and dairy products remain one of the best values in the supermarket.
- An 8-ounce glass of milk contains 13 essential nutrients and is only around 25 cents.





People who have lactose intolerance should avoid dairy foods.







Those with lactose intolerance should reach for dairy foods.





Lactose Intolerance: A Barrier to Dairy Consumption

- Over 80% of pediatricians and dietitians agree that lactose intolerance is a major reason some people avoid milk and milk products
- Lactose intolerance is the number one barrier to health professional recommendations for dairy

Source: GFK Custom Research North America. DMI: Health Professionals Dairy Nutrition Tracking Study, January 2009



Amount of Lactose in Common Dairy Foods

Product	Lactose (g)
Whole, 2%, 1%, Skim Milk (1 cup)	13 g
Lactaid [®] Milk, low-fat, lactose-free (1 cup)	0 g ^A
Cottage Cheese, low-fat, 2% milkfat (1/2 cup)	3 g
Cheddar Cheese, sharp (1 oz)	<0.1 g
Swiss Cheese (1 oz)	<0.1 g
Mozzarella (1 oz)	<0.1 g
American Cheese, pasteurized, processed (1 oz)	1 g
Velveeta Cheese, (1 ½ oz)	4 g
Yogurt, low-fat (1 cup)	13 g ^B
Ice Cream (1/2 cup)	4 g

Unless otherwise indicated, data sourced from: USDA / ARS, Nutrient Data Laboratory, Standard Reference, 22, January 2010. Lactose content varies by product and the lactose content of a specific product would need to be verified by a vendor.

A. http://www.lactaid.com/page.jhtml?id=/lactaid/products/products.inc#1pct_Milk.

B. Many people with lactose intolerance can enjoy yogurt because the cultures that are inherent in yogurt help digest the lactose.



Simple Strategies to Manage Lactose Intolerance

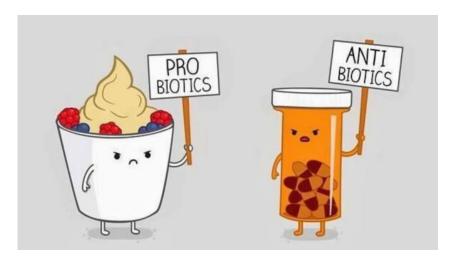
- ✓ Sip it Introduce dairy slowly
- ✓ Try it Opt for lactose-free products
- ✓ Stir it Mix milk with food
- ✓ Slice it Choose natural cheeses
- ✓ Spoon it Try easy-to-digest yogurt







Consumers should be concerned about antibiotics in their milk.





MYTH

All Dairy Foods – Labeled or Not – Are Required by the FDA to be Free of Antibiotics

- Antibiotic use is highly regulated and overseen by veterinarian
- FDA prohibits antibiotics in milk
- Numerous checkpoints in place as milk moves from farm to dairy case
- Any milk that tests positive is rejected and does not enter the food supply

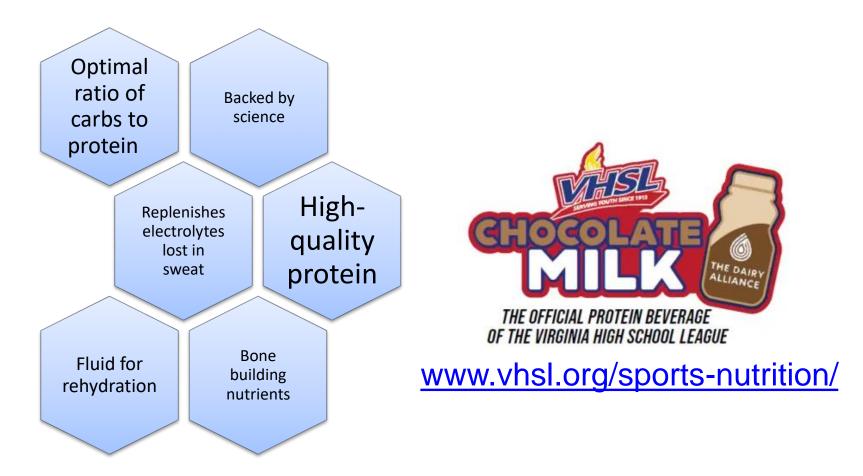


Chocolate milk is an ideal sports recovery drink.





FACT





Organic milk is healthier than regular milk.





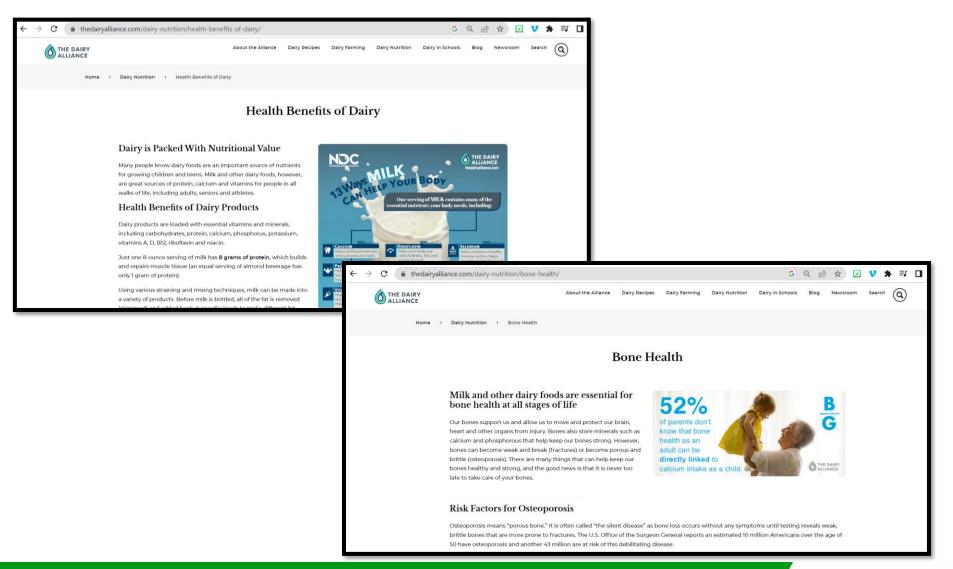
MYTH

- The difference lies in the farming practices
- Organic and conventional milk supply the same 13 essential vitamins and minerals that makes dairy an important part of your diet

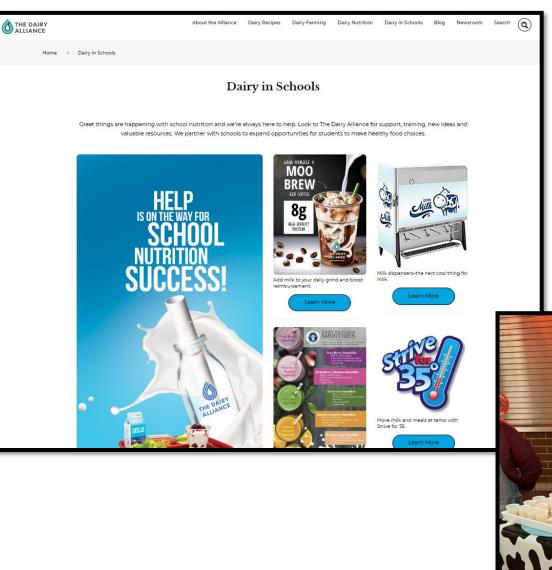




Tools You Can Use







Youth Wellness Equipment Grants!





Supplemental Grant Funding for Milk Dispenser Equipment from:





YOUTH WELLNESS EQUIPMENT GRANTS



UBERT | OTHE DAIRY

BULK MILK EQUIPMENT

In addition to reducing packaging waste, bulk milk dispensers are getting students to consume more milk. HUBERT® and The Dairy Alliance have a partnership to help schools secure equipment for bulk milk programs. Kids enjoy serving themselves and especially love the ability to mix flavored and regular milks together.



Package Options Include:

- 12 gal Double Valve Milk Dispenser 26 1/2"L x 39 1/2"W x 17 1/6"H
- 18 gal Triple Valve Milk Dispenser 37 9/10"L x 17"W x 39 1/2"H
- Turbo Air 2-Door Undercounter Refrigerator 115v/60/1-ph
- · Stainless Steel Equipment Stand with Casters
- · Vinyl Magnetic Signage Set
- Special Fuel Up to Play 60 Pricing Available







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YOUTH WELLNESS EQUIPMENT GRANTS



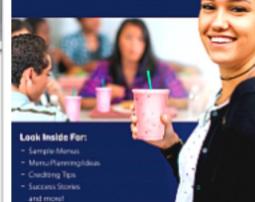


SDA Feed and Rutelition Service

Offering Smoothies

as Part of Reimbursable School Meals

Grades Kindergarten Through 12 (K-12)







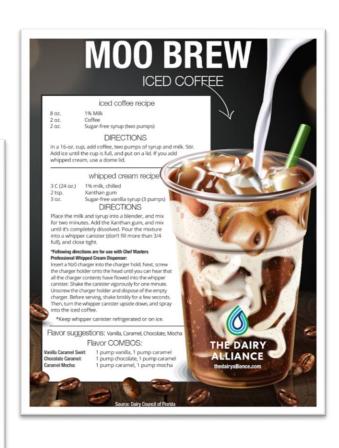




YOUTH WELLNESS EQUIPMENT GRANTS



£3





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The Dairy Alliance Youth Wellness