

Peanut products from around the world

Hot Topics on Peanuts

2004 Georgia Peanut Tour August 31, Tifton, GA



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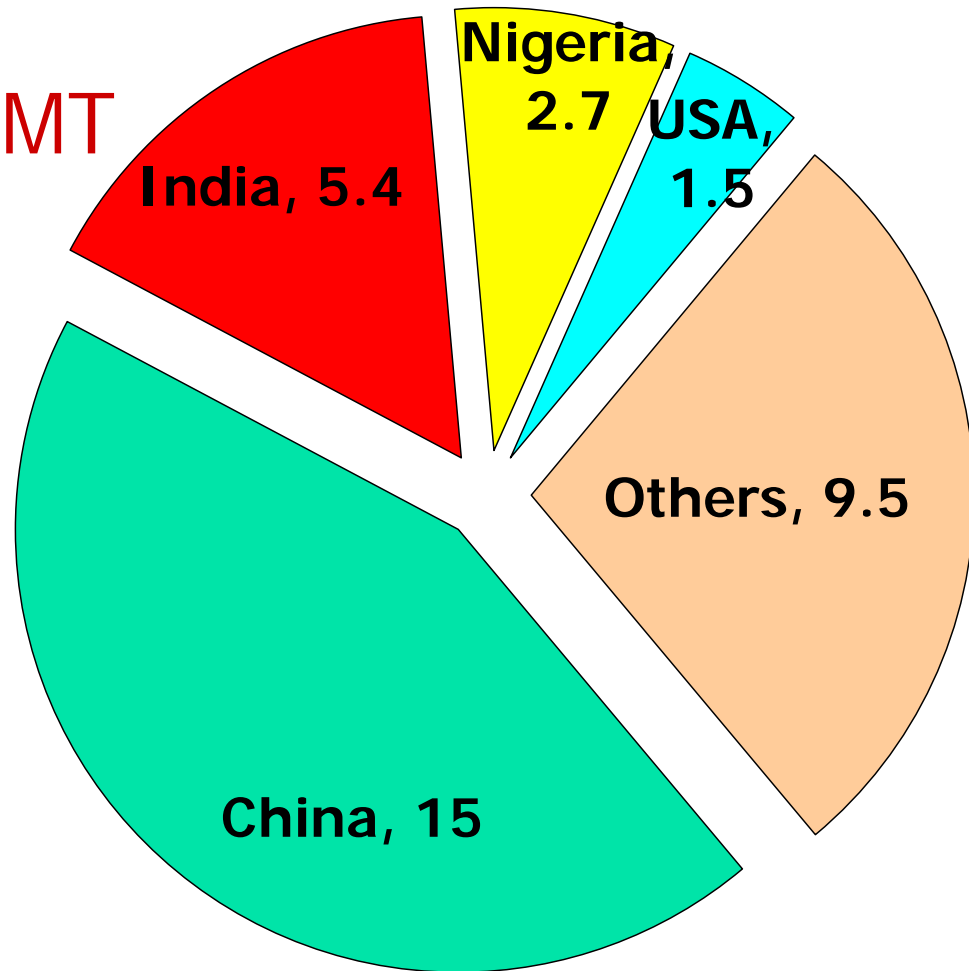


The University of Georgia

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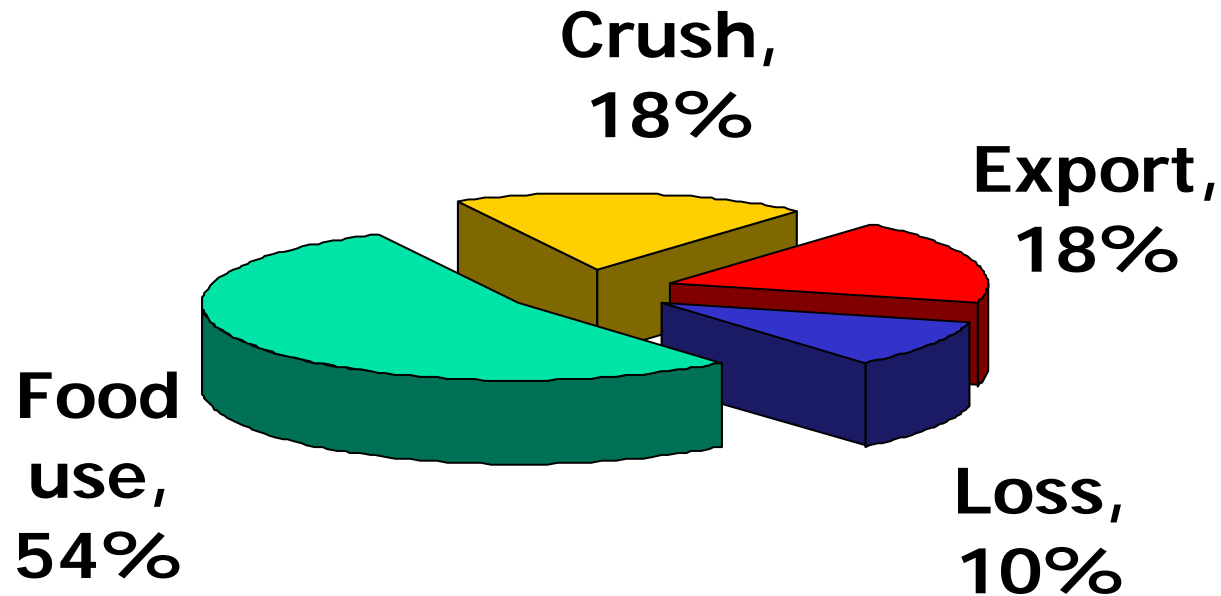
Production and Significance

World wide 34 m MT



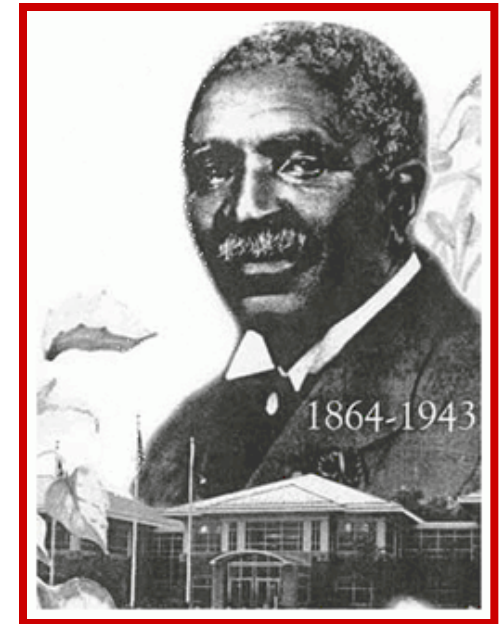
World wide – 50% peanuts end up in human food

- In the US -**



George Washington Carver

- Developed Peanut & Soybean products that revolutionized southern agricultural economy
- His research developed 300 products from peanut & 105 ways of preparing peanuts for human consumption



An Educator, Farmer
Agricultural/Food Scientist



Carver's ways of using peanuts

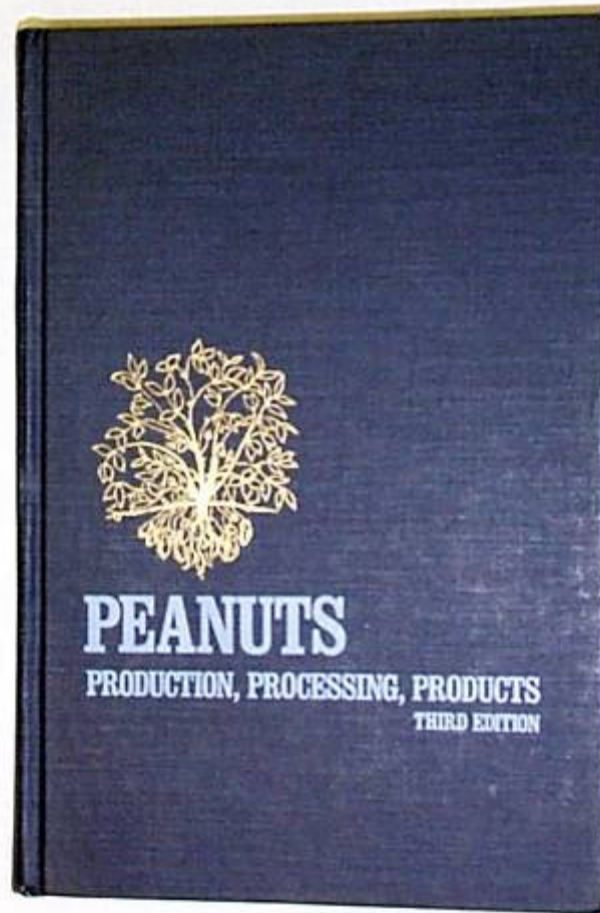
Use peanuts in 105 ways in

- Soups, puree, bread, candy, cheeses, coffee, cookie
- Desserts – Cakes, pudding, ice-cream, frappe
- Main courses – Patties, sausage, macaroni, stuffing, etc.
- Snacks – Wafers, bars, donuts, salted peanuts, etc.





Book by J. G. Woodroof



List of Products

- Peanut Butter
 - American Phenomenon
- Roasted nuts
 - In-shell, shelled
- Peanut Confections
 - Candies
 - Desserts
 - Bakery Sweets





List of Products

Diversified Uses

- Variety Breads including - White and whole peanut bread
- Cookies, Cakes and Brownies
- Doughnuts and Sweet Yeast Products
- Pies & Frozen Desserts
- Peanut Milk, yogurt and Cheese -type products
- Non-milk Beverages, soups, and gruels
- Peanuts with meats
- Boiled Peanuts
- Breakfast Cereals
- Peanut noodles
- Peanut Paste/fermented peanut pastes
- Chinese type noodles

Products in Japan



- Peanut snacks
Roasted, salted, & coated nuts
- Peanut butter

Products in Korea



- Peanut snacks
Roasted, salted, & coated nuts
- Peanut confections

Products in Thailand



- Peanut snacks
Roasted, salted, & coated nuts
- Peanut candies
- Peanut confections



- Peanut snacks
 - Roasted, salted, & coated nuts
- Peanut candies

Products in Bulgaria



Peanut candies and confections

Products in Philippines



- Peanut snacks
- Roasted & salted
- Flavored/ coated

Products from Philippines

Modified through Peanut CRSP (Collaborative Research Support)
UGA Griffin campus



Java sauce using sorted peanuts



Peanut sauce mix using sorted peanuts



Regular (L) and Vitamin A fortified peanut butter (R)



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THE NUT COMPANY



A European market leader in nuts food sector

Three major segments in nut and nut-based products

- Consumer brands
- Private label products
- Ingredients



Coated and salted peanuts

Ingredients division based at Imko
Ingredients (Netherlands and Poland)

Tailor-made and ready to use ingredients for
Confectionery, savory snacks, bakery, break-
fast cereal, dairy products, ice-cream, meat
sauces, and various meat components

THE NUT COMPANY

Popular consumer brands



Netherlands



Germany and Austria



France and Italy



Poland



Western Europe

Products in other countries



India: Coated peanuts



Ghana: Peanut candy



China: Coated peanuts

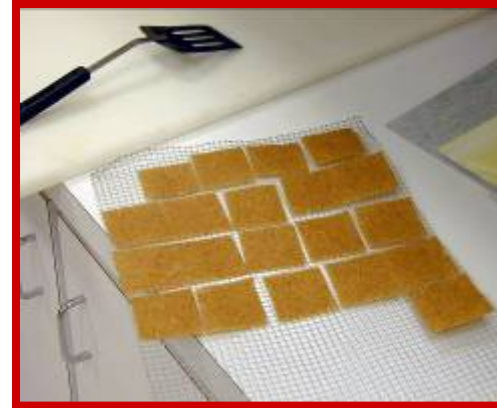


Indonesia: Coated peanuts

Commercializing – Peanut Products in the US



Cracker-coated nuts



Baked snack chips



Peanut butter tarts



Extruded snack puffs

Variety of beverages in the US market

Why not a peanut beverage?



Soymilks and drinks



Almond, oat, rice, grain, and hazelnut milks



Flavored milks





Current Approaches

- **Chinnan's Lab – Work supported by Peanut CRSP and the SE Peanut Research Initiative**

Development of efficient processes for nutritionally enhanced beverage formulations from peanut and soy





Development of peanut beverages

■ Two approaches were employed

Defatted peanut flour, soy and chocolate

A graduate student, Rashmi Deshpande, at UGA worked on this product.

Peanut Punch, a peanut-butter based product

Dr. Dida Iserliyska, a visiting scholar from the Institute of Cryobiology and Canned Foods, Bulgaria, worked on this product

Low-fat nutritional drink from peanut, soy & chocolate



- 1 Soy flour
- 2 Peanut flour
- 3 Soy protein isolate
- 4 Ingredients for chocolate syrup



Various formulations were developed incorporating soy and using mixture design

Determination of influence of particle size on product mouthfeel



Viscosity



100% Peanut beverage



Visual
Stability
index



Chocolate-flavored, peanut-soy beverage

Sensory evaluation of peanut beverages



Consumer acceptability was studied using 9-point hedonic scale
Sensory attributes such as flavor, consistency, mouthfeel, aftertaste, etc. were evaluated



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Peanut Punch

Peanut Punch made from skim milk, peanut butter, sugar and other ingredients. It can be flavored with chocolate, vanilla, strawberry and other flavors



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Product Evaluation



Viscosity



Sensory Evaluation



Visual
Stability
index





Summary

- Historical perspective of peanut products
- Products developed at UGA
- Products available in the US
- Products available in other parts of the world
- Some new products on the horizon



THANK YOU

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