



CRSP Nutrition and Health Research

Tim Williams for the
Collaborative Research Support
Programs

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Nutrition & Feed the Future

- Nutrition depends on
 - Calories (Carbs and Oil)
 - Protein (quantity and quality)
 - Vitamins and Minerals
 - Absence of anti-nutritional factors (eg mycotoxins)
- In FtF USAID has recognized and explicitly linked food security with nutrition.
 - Agriculture is expected to deliver more than calories



Providing Food Addressing Health

- Food and Health are inextricably linked
- Achieving health through food based approaches benefits:
 - Agriculture by expanded demand for farm products with special health values
 - Reduces burden of medical treatment to people and society
 - Reduces humanitarian costs to USA



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Title XII Mandates Benefits for Both Developing Country and USA

- Documented health benefits associated with commodities is a very powerful marketing tool
- CRSP research in nutrition and health is strongly supported by US industries
- Nutrition and Health as important to development as any part of the economy



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CRSP Initiatives in Nutrition

- Implicit
 - More food and more accessible foods (all CRSPs)
 - More Protein (Aquafish, Pulse, Peanut, Livestock)
 - More Diverse Diets (Horticulture)
- Explicit
 - Animal source proteins and cognitive development
 - Legume health benefits
 - Heart : cancers : hypertension : diabetes : FDA health claims
 - Mycotoxin negatives



Livestock CRSP

- Cognitive development promoted by small quantities of animal source proteins
 - Maximizes return the USA investment in education



Pulse CRSP

- Beans help prevent intestinal cancers
- Beans being used to improve survival of children with HIV



Peanut CRSP

- Market expansion using nutrition studies
- Nutrition at schools
- Aflatoxin and fumonisin cause child stunting through nutritional interference
 - Protein, micronutrients
- Treatment of children for malnourishment



PEANUT nutritional values

- Protein –
 - Quality
- Oil – Quality comparable with olive oil - Heart health benefits
 - High O/L improve shelf life (High O/L)
- High Satiety – a little peanut goes a long way
- Neutraceutical
 - Lowest glycemic index
 - Blood Pressure benefits
 - Diabetes
 - Heart
- Special Nutrition RUTF -
- Flavor



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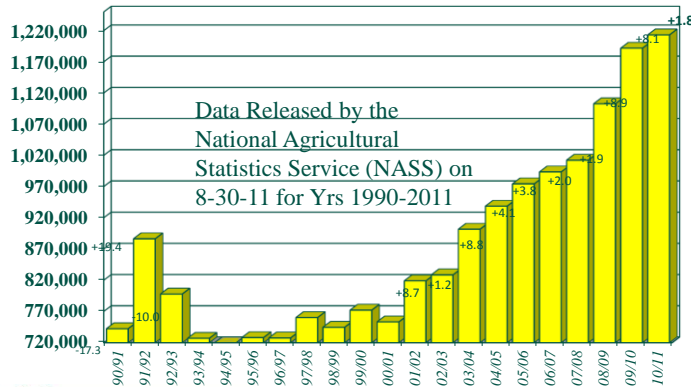
Nutrition for children PNB-based school feeding



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USA benefits : Returns to nutrition research initiated by PCRSP

Total U.S. Peanut Butter Consumption (1000 Pounds)



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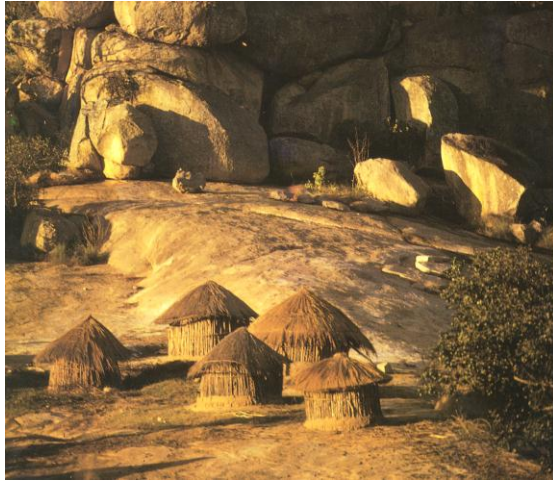
Three Take-aways

- CRSPs are important, cost effective contributors to nutrition and health investments by USAID
- Nutrition is a powerful marketing tool to promote global agriculture
- CRSP research also benefits US agriculture through increased knowledge



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Thank You



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