





Focusing on Women and Children

A Nutritional Impact Assessment Tool for Planners

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The Infant & Young Child Nutrition Project

- USAID Global Health Bureau flagship project on infant and young child nutrition.
- Aims to prevent malnutrition for mothers and children during the critical time from pregnancy until two years of age.
- Led by PATH in collaboration with CARE,
 The Manoff Group, and University Research
 Co., LLC.



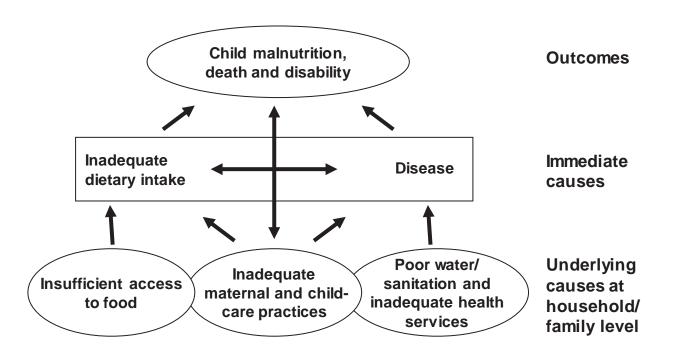
Children's needs are special

- In Kenya, shifting production from maize to sugarcane...
 - Improved incomes: sugarcane laborer wages 3 times higher than maize laborers.
 - Improved household food intake: 360 kcal per household per day.
 - Did not improve child nutritional status: caring practices and morbidity more important than food security and income.



Photo: PATH/Evelyn Hockstein

Will Increased Income or Food Availability Improve Child Nutrition?

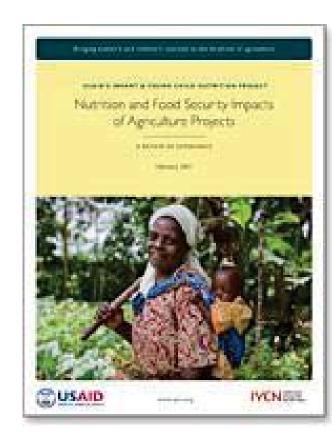


Source: The State of the World's Children 1998

Defining the Problem: A Review of Experience

 What are the characteristics of agriculture interventions that improve food security and nutrition?

 What are the characteristics of interventions that have negative effects?



Potential for positive food security impacts

- Involve women
 (increases food security gain from income gain).
- Introduce small-scale processing for employment.
- Promote food disproportionately produced or consumed by food insecure households.



Photo: QFP/Mario DiBari

Potential for negative food security impacts

 Un- or under-employment increases (e.g., largescale mechanization).

 New technologies take hold but smaller farmers cannot afford to adopt them.



Photo: PATH/Carib Nelson

Potential negative food security impacts of price supports/controls

- Food prices drop and vulnerable households are net sellers.
- Food prices rise and vulnerable households are net purchasers.



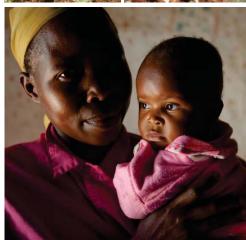
Potential for positive nutritional impacts

- 1. Nutritional objectives.
- 2. Produce foods of high nutritional value AND vulnerable households consume a portion of their production.
- 3. Nutrition counseling included
- 4. Homestead production incorporated.
- 5. Access and utilization of health care, sanitation, and hygiene improved.
- 6. Micronutrient-rich crop varieties introduced and/or promoted.
- Nutritionally vulnerable populations targeted.









Potential for negative nutritional impacts (beyond food security)

- Agriculture employment if it denies women enough time for child care
- Animal production if it increases the risk of zoonosis and chronic disease.
- Irrigation if it increases mosquito populations and malaria.



Offering Solutions: Tools for Planners

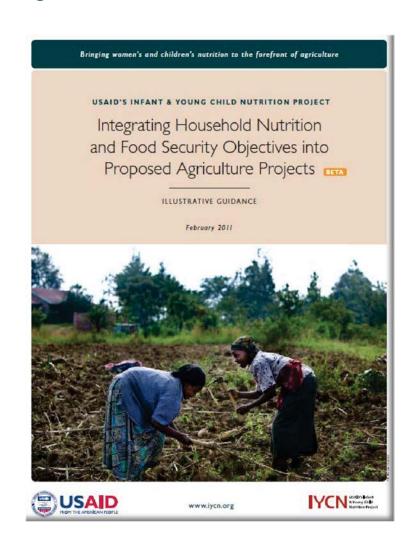
 Do Good: Include meaningful nutrition objectives in project design with activities supporting them.

2. Do no Harm: Protect nutritional considerations in project design.



Including Nutrition Objectives

- Focus on women, infants and young children
- Specify a vulnerable population suffering from high malnutrition prevalence.
- Choose appropriate nutritionrelated indicators.



Indicators for Objectives

- Food Security
 - Household Hunger Scale (HHS)
 - Household Dietary Diversity Scores (DDS)
 - Income/expenditure data
- Nutrition
 - Caloric intake
 - Minimum acceptable diet (or individual DDS)
 - Nutritional status (WFA, HFA, WFH)
 - Vitamin A or iron intake (or serum retinol / Hb)

Guidance for Activities to Support Objectives

The SUN interventions

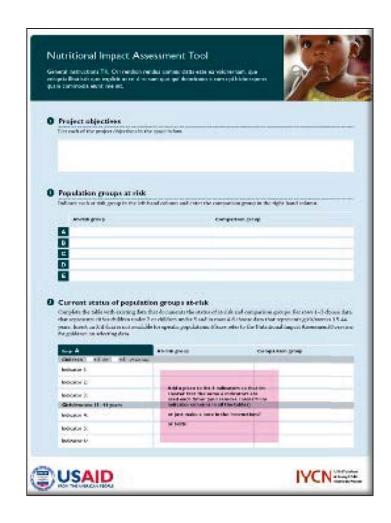
 Include nutrition programming expertise on design team

IYCN brief on child nutrition programming

"Nutrition Program Design Assistant"
 http://www.coregroup.org/component/content/article/119

Protecting Nutrition: the Nutritional Impact Assessment Tool

- Similar to environmental and gender impact assessments.
- Helps agriculture program planners to consider nutrition impacts on vulnerable groups.



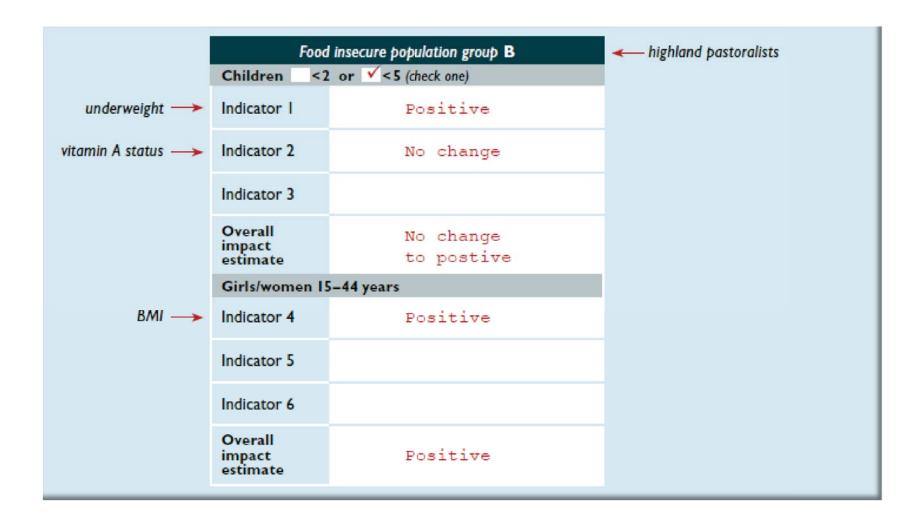
How does it work?

Step 1	List Project Objectives
Step 2	Define population groups at risk.
Step 3	Describe nutrition situation for at-risk.
Step 4	Create approach alternatives.
Step 5	Estimate likely outcomes.
Step 6	Modify as needed for no negative impact
Step 7	Assess and select alternatives.
Step 8	Design mitigation plan.
Step 9	Develop review plan.

Step 3: Define nutritional situation

- Hardest part of the NIA: finding data specific to vulnerable groups
- Indicators:
 - Children's anthropometric data: WFA, HFA, WFH (or Mid-upper arm circumference if WFH not available)
 - Caloric intake (children and/or women)
 - Individual dietary diversity scores
 - Vitamin A or iron status (relative to standards)

Step 5: Estimate Likely Outcomes



Decision matrix to guide discussion

Decision matrix for estimating expected outcomes

Intervention							Likely outcome
Cash crop	Is the land on which this crop is likely to be grown currently unused or underutilized?	Yes					Positive
		No	Is the crop which this crop will displace disproportionately consumed by food insecure households?	Yes			Negative
				No			Neutral
New food crop (or livestock)	Is the land on which this crop is likely to be grown currently unused or underutilized?	Yes					Positive
		No	Is the crop which this crop will displace disproportionately consumed by food insecure households?	Yes	How does the nutritional value of the new food crop compare to the traditional crop it will replace?	Same	Neutral if cost is same; Positive if cost is less
						Better	Positive if cost is same or less; Neutral or Negative if cost is greater
						Worse	Negative
				Yes	How does the market price of the new food crop compare to the traditional crop it will replace?	Same	Neutral if nutritional value is same; Positive if nutritional value is better
						More	Negative
						Less	Positive if nutritional value is same or better
				No			Positive or Neutral

Step 7: Assess alternative approaches

- Rank according to best nutritional outcomes, and select the approach(es) to be implemented.
- DO NOT NEED to select the approach producing the best outcomes for nutrition.
- DO NEED to justify not selecting the approach producing the best outcomes for nutrition.
 - Cost
 - Detracts from production/income impact

Steps 8: Mitigation Plan

Prepare a "mitigation plan" in advance

 Monitor results using indicators from initial impact assessment

• Implement the mitigation plan if observe negative impacts through monitoring.

Thank you



Tools available at www.iycn.org Contact me: tschaetzel@path.org

References

Kenya example: Cogill B, Kennedy E. Effects of sugarcane production in southwestern Kenya on income and nutrition. In: von Braun J, Kennedy E, eds. Agricultural Commercialization, Economic Development, and Nutrition. Baltimore, MD: Johns Hopkins University Press; 1994.