

The Linkages Between Multiple Use Water Systems and Nutrition

EMERGING RESEARCH FROM FEED THE FUTURE PROGRAMS

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29 August 2018

Weather Variability

Weather impacts:

- Water availability
- Nutrition
 - + Less food production
 - + Lower birth weight for newborns
 - + Lower body weight for women
 - + Crops show decreased protein, zinc and iron







USAID Activities with MUS Components

- Ethiopia: Lowland WASH Activity
- Kenya: Resilient Arid Lands Partnership for Integrated Development Activity
- Tajikistan: Farmer Family Program
- Global: Gender, Climate Change and Nutrition Integration Initiative
- Global: Innovation Lab for Small Scale Irrigation



Key Takeaways

- MUS contributes to an increase in dietary diversity
 - + Availability of kitchen gardens
 - + Diversity of crops
 - + Increased income
- MUS can contribute to better environmental stewardship, which can lead to improved food security
 - + Land cover associated with reduced hunger scores







Future Research

- Linkages between MUS and nutrition
- MUS:
 - + Economics (profitability
 - + Labor constraints
 - + Opportunity costs
- Operational consideration and opportunities to deploy MUS successfully

