



The Impacts of Enhancing Traditional Rice Production in the Upland Regions of the Philippines

Cassie He, Cecilia Acuin, Ana Cope, Joyce Luis
 Nutrition, Gender and Sustainable Livelihood, IRRI Philippines
 World Food Prize, Global Youth Institute



INTRODUCTION

- Capturing value, preserving heritage
- Isolated, upland region
- Quantitative to qualitative data
- Measuring access to food
- The Food Insecurity Experience Scale by the FAO
 - 1980's: Surveying US women
 - 1995: US House Hold Food Security Model
 - 2004: Latin America and Caribbean Food Security Scale
 - 2003: Voices of the Hungry Project
- The Food Consumption Score by the WFP
- Food consumption and insecurity portfolio



METHOD

- Barangays served as blocks in a stratified sample
- Proportionally on the rice area of each respective barangay
- Surveys were done in person for the heirloom rice farmers in the Mountain Province, Kalinga, Ifugao and Benguet
- Prewritten, scripted interview
- Part one
 - Basic background information and sociodemographic information
- Part two
 - Information regarding current practices in managing pest/earthworm problems
- Part three
 - Diet and food security analysis
 - R-statistical software
- Biggest problem was unwillingness to participate



SURVEYS



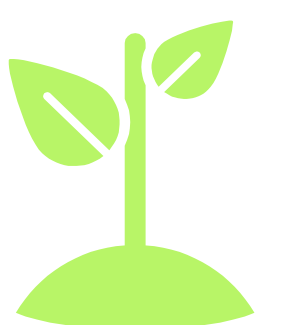
During the last 12 months, was there a time when, because of lack of money or other resources:

1. You were worried you would not have enough food to eat?
2. You were unable to eat healthy and nutritious food?
3. You ate only a few kinds of foods?
4. You had to skip a meal?
5. **You ate less than you thought you should?**
6. Your household ran out of food?
7. You were hungry but did not eat?
8. **You went without eating for a whole day?**

Food Items (examples)	Food groups (Definitive)	Weight (Definitive)
1 Rice, bread, noodles, biscuits, cookies or any rice and cereal products like biko, suman (malagkit), puto, noodles/pasta, porridge (arrozcaldó/champorado) and others	Main Staples	2
2 Cassava, potatoes and sweet potatoes, other tubers and plantains		
3 Beans, peas, lentils, nuts, seeds or foods made from these like pork and beans, gusantes de lata and others	Pulses	3
4 Vegetables, leaves	Vegetables	1
5 Fruits	Fruit	1
6 Beef, goat, poultry, eggs, fish and shellfish	Meat and Fish	4
7 Milk, yogurt and other dairy	Milk	4
8 Sugar and sugar products, honey	Sugar	0.5
9 Oils, fats and butter	Oil	0.5
Spices, tea, coffee, salt, fish powder, small amounts of milk for tea	Condiments	0

Score	Food Consumption Groups
0-28	'Poor Food Consumption'
>28 to ≤42	'Borderline Food Consumption'
>42	'Acceptable Food Consumption'

- Still a long ways to go in terms of food insecurity
 - Second most wealthiest area
 - FCS over estimates nutritional consumption of people by overgeneralizing food categories
- Use this information to guide future policy
- SDG2 aims to eradicate hunger by 2030
- Protecting vulnerable populations



RESULTS

Sociodemographic findings:

- Ratio of male farmers to female farmers was nearly 1:1. While the national average is 89% of farmers are male vs 11% farmers are female.
 - Programs targeted at women
- Average age of farmers if over 50.
 - Aging population → unsustainable farming
 - Children are losing interest in farming
- Average farm size was two as large as median farm size
 - Presence of several outliers
 - 10,000 sq meter versus median of 2,000
 - Importance of farmers cooperatives
- 6 household members
- Waiting 33 days before transplanting
 - Recommended 30 max, ideally 20
- 51% plant one cropping a year
 - Commercial rice grows in 120-140 days good 4.JPG
 - Heirloom rice is 2-4x more expensive



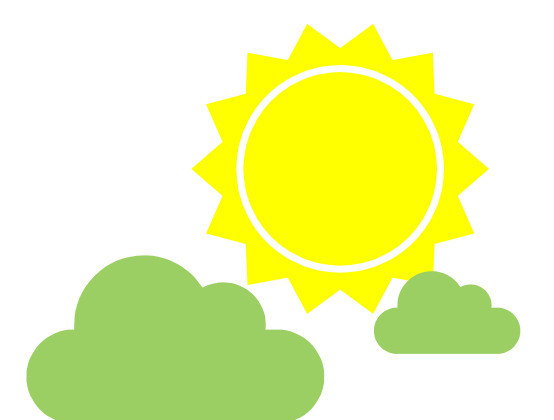
Food Consumption Finding:

- FIES
 - 12.22% of farmers experience moderate or severe food insecurity
- FCS
 - 32% are below acceptable nutrition consumption
 - 95% of farmers are buying fish
 - Rice-fish ecosystems



FUTURE DIRECTIONS...

- Geographical indication
 - Trademark in order to protect from copycats
 - Chardonnay
- Gene bank
 - Black box
- FIES problems
 - 12 month recall period
 - Seasonality
 - Memory
 - Adult data



ACKNOWLEDGEMENTS

- IRRI
- World Food Prize
- Crystal Harris
- Ambassador Quinn
- Farmers surveyed
- Cecilia Acuin
- Ana Cope
- Joyce Luis
- Ruben Nunez

THANKS!

