















<figure><figure>





Study on waste in Brazil* •Families waste 128.8 kg of food per year •Most wasted food is rice (22%), followed by beans (16%) and chicken (15%) *International seminar sponsored by Embrapa. Dec.2018. "Brasil - Perdas e Desperdício de Alimentos em Cadeias Agroalimentares: Oportunidades para Políticas Públicas"



















Two Keys to Reducing Postharvest Losses

- <u>Minimizing mechanical damage</u> during harvest, handling operations
- <u>Cooling the crop quickly to lowest</u>
 safe temperature

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Projects to reduce postharvest losses and increase local production

- Extend mango quality throughout the value chain in Haiti
- Reduce postharvest losses for local mandarin orange growers in Tanzania





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Mango exported to rich countries, U.S., E.U...PH losses 20-50% for fruit & vegetable

Postharvest Issues for Haiti

• Only about 5% of production are exported

- PH losses due poor harvest, transport & temperature management
- With good PH management Loss could reduce to 10-25%, no zero PH loss possible!













RESULTS					
Effect of tree height and harvest aid type on fruit harvested with stems (n=100).					
Tree height (m)	% with stem, H1 ^z	% with stem, H2 ^y	% Improvement		
10	15	75	400		
12	19	70	268		
15	10	54	440		
Mean	15	66	340		
Std. error.	0.99	0.99			
² H1= traditional harvest aid without cutter (picking pole). ^Y H2=fruit harvested with harvest aid with cutter (cutting pole).					

RESULTS

Rate of rejection at the collection center for woven bag-loaded vs crates-loaded in				
animal transport system.				
Distance(km)	% with Woven bag	% with Crates	% of Improvement	
2	8.53	4.62	46	
3	12.60	5.11	59	
4	15.50	7.54	51	
Average 3	12.21	5.76	53	

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 Collection Center to Packinghouse:

 MATERIALS & METHODS

 Bulk truck loaded

 Crates truck loaded

 Image: Collection Center to Packinghouse:

 Delta truck loaded

 Image: Collection Center to Packinghouse:

 Delta truck loaded

 Image: Collection Center to Packinghouse:

 Image: C

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FLORIDA POSTHARVEST HORTICULTURE FIELD TRIP

