### Reducing Postharvest Losses in Rwanda Project

Reducing Postharvest Losses in Rwanda project is a three-year project (2016 – 2019), which is facilitating systemic changes in the horticultural sector with a focus on postharvest practices. Postharvest management is a systems-based challenge and requires an integrated innovation strategy that incorporates technological and financial innovations, capacity building, enhanced market access and other elements to achieve impactatscale.

Funded by Feed the Future Horticultural Innovation Lab, the Reducing Postharvest Losses in Rwanda project is working under the guidance of the Ministry of Agriculture and Animal Resources in Rwanda with implementing partners, Agribusiness Associates, Rwanda Agricultural Board, National Agriculture Export Development Board and University of Rwanda – College of Agriculture and Veterinary Medicine. The project's postharvest technical assistance partner is Postharvest Education Foundation.

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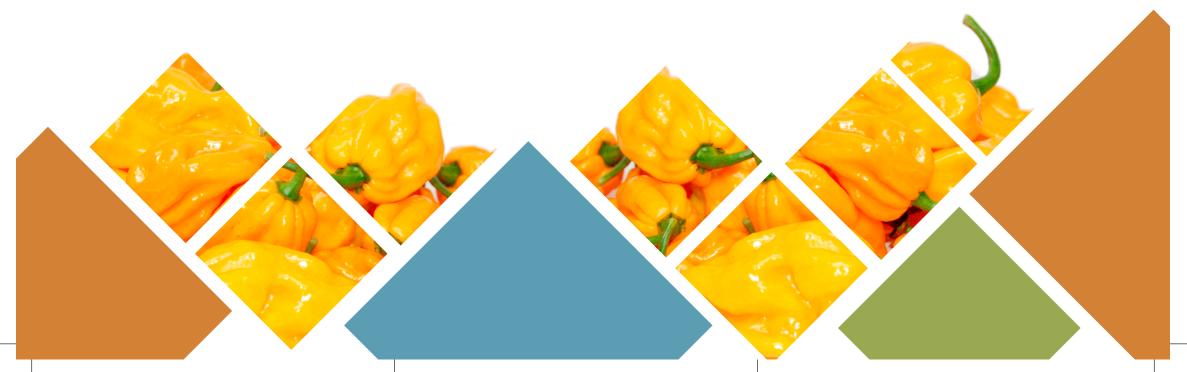
Twitter: https://twitter.com/rw\_postharvest

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# Maturity Indices and Quality: Yellow Chili





#### **Maturity Indices - Color Rating**

Maturity Stage	Class	Description	Photo
1	Green	The chili is completely green	
2	Breaker	Break of color from green to tannish- yellow of less than 10% of the chili surface	
3	Turning	Tannish-yellow color shows on over 10% but not more than 30% of the chili surface	
Start Ha	arvest		
4	Green yellow	Yellow color shows on over 40% of the chili surface	
5	Light yellow	Less than 90% of the chili surface is yellow	
6 drving should be h	Yellow	More than 90% of the chili surface is vellow lors changes from green to yellow	
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#### Weight, Size, Color in Maturity Stage

Chil

Maturity Stage	Weight (Average of 20 pcs in g)	Size	Shape	Color
1	58.7	3.7cm long, 8.1cm circumference	Shapeless	Green
2	61.5	3.8cm long, 8.4 cm circumference		Breaker
3	63.8	4.1cm long, 8.2 cm circumference		Turning
4	66.5	4cm long, 8.8 cm circumference		Green yellow
5	64.8	4.3cm long, 8.1 cm circumference		Light- Yellow
6	66	4cm long, 8.6 cm circumference		Yellow

#### **Overall Quality**

**High Quality** 



Yellow color evenly distributed and no other defects, like sunburn, cracks, decay and insect damage on the fruit.

Rejects





It has an unattractive appearance with a lot of cracks The damaged part may harbor microorganisms

### **Quality Defects**



Decay Microorganisms such as bacteria, yeasts and fungi feed on the fruit and break it down.



**Cracks** It is a disorder resulting in peel thickness and hardness. There is insufficient mineral nutrients in the peel of the fruit.



Sunburn It is a loss of pigmentation resulting in a yellow, bronze, or brown spot on the sun exposed side of the fruit. The sunburnt fruit does not have the capacity to prevent oxidative stress as the pool of soluble antioxidants is reduced.



Insect damage It is injury done to the plant by the feeding insect, which eats leaves or burrows in stems, fruit or roots. Insects leaves microorganisms into injured parts.

## **Chilies Harvesting**

Chillies should be harvested by hand or using scissors. During harvesting keep them in smooth and perforated containers. It is advised to wear gloves during chilies harvesting.





