

High Tunnel Production of Goldenberry

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Goldenberries - *Physalis spp*

- *Physalis peruviana*

- Uchuva
- Cape gooseberry
- *Physalis*
- Amour en cage



- Why Goldenberry?

- Relatively easy to grow
- Very high market value \$1.33 per oz
- Interest in healthy super-fruits
 - ✓ High in fat soluble antioxidants

melissa's

Goldenberries

The Perfect Mix
Sweet & Tart



Imported from Mexico. Grown in
the state of Chiapas, Mexico.

NET WT 3 OZ. (85g)



3 oz. **Pinknet**
Cape Gooseberries

\$3.99 EA

melissa's

Physalis

- *Physalis pruinosa*: ground cherry, strawberry tomato
- *Physalis ixocarpa*: Tomatillo
- *Physalis peruviana*: cape gooseberry, goldenberry

Wonderberries- *Solanum* spp.

- *Variety Testing at WyeREC*
 - *Other Solanums*
 - 'Wonderberry' and*
 - 'Goldenpearls'*



Goldenberry High Tunnel Trials

Objectives

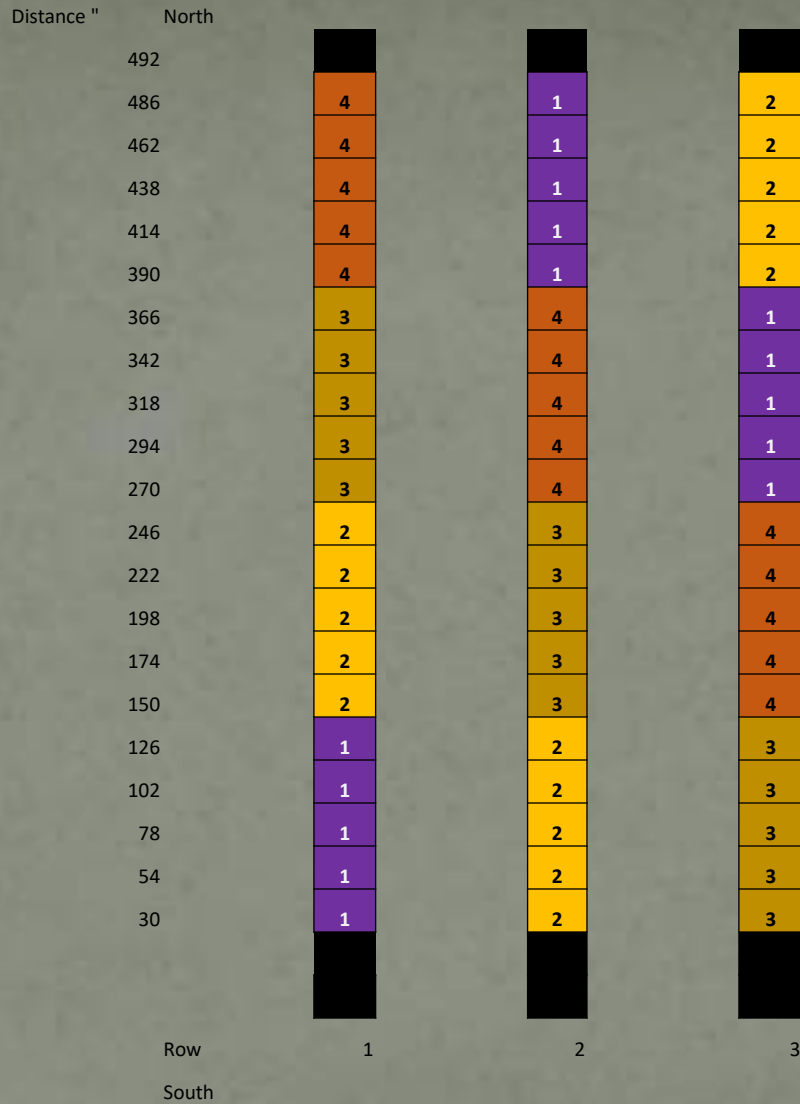
- *Test Varieties*
 - *Goldenberry*
 - *Goldenberry – ‘Gigante’*
- *Increase harvest window*
 - *Spring and Fall*
- *Determine pest and disease issues*
- *Keep harvest and spray records*

Goldenberry

'Gigante'



WyeREC Goldenberry High Tunnel Trials



South

Variety Number/Color Code

- 1 Wonderberry
- 2 Gigante
- 3 Golden Pearls
- 4 Golden Berry



Goldenberry High Tunnel Trials

Initial phase

- *Seed germination – mid winter*



Goldenberry High Tunnel Trials

Initial phase

- *Seed germination – mid winter*
- *Slow germination*
- *Grow out to size*
- *Transplant to soil at appropriate date*
- *Very slow growth*
- *For this project - June 15*

Ground Cherry High Tunnel Trials

Initial phase

- *At WyeREC*
 - *High tunnel soil was amended with Smartleaf compost at 7.9 cuft/100sqft*
 - *Did not fertilize until September*
 - *Calcium Nitrate at 25lbs/acre injected*

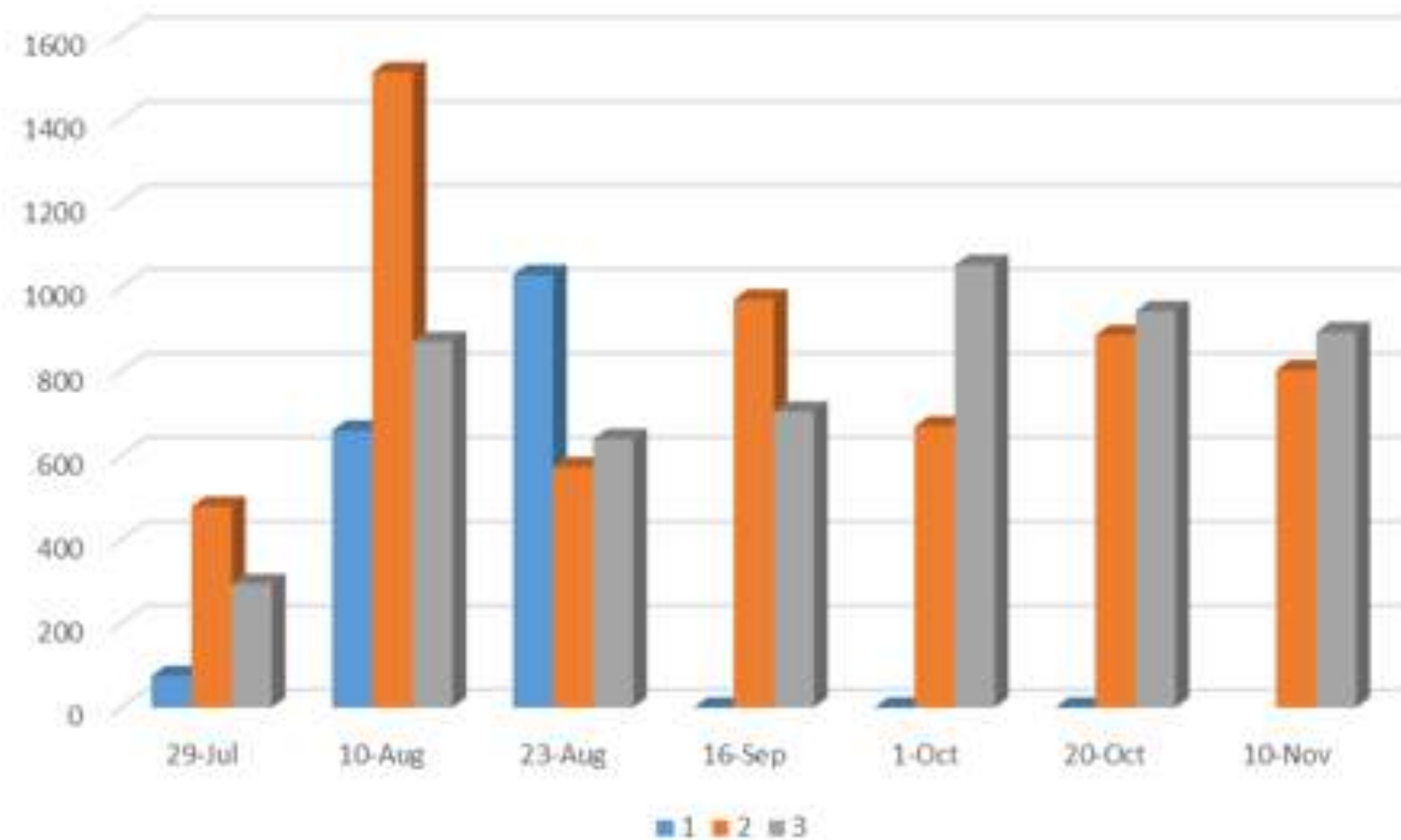
Goldenberry High Tunnel Trials

WyeREC Harvests

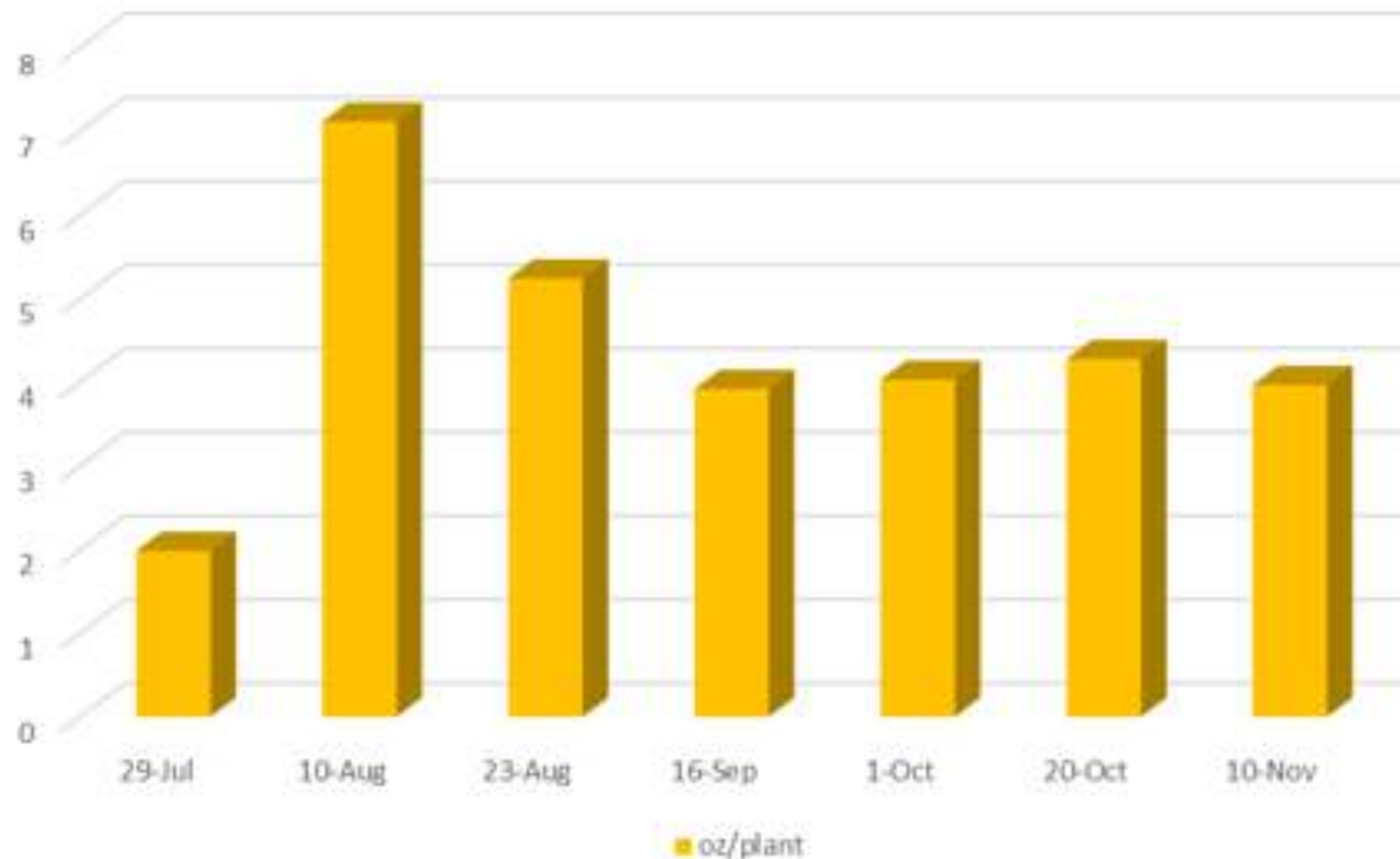
- Initial harvest was July 29th



'Goldenberry' high-tunnel trial harvests
grams vs date



'Goldenberry' high-tunnel trial harvests
Avg oz per plant by date



Goldenberry High Tunnel Trials

WyeREC Harvests

*Average oz per plant between July and
Nov*

$$30.5 \text{ oz} \times \$1.33 = \$40.56$$

Goldenberry High Tunnel Trials

Possible disease problems

One replicate of plants collapsed

Goldenberry High Tunnel Trials

Pest Problems

Three-line Lema Beetle (*Lema trivittata*)



Goldenberry High Tunnel Trials

Pest Problems with Goldenberry

Three-line Lema Beetle
(*Lema trivittata*)

Control

Sevin - Carbaryl

Spinosad

Btg*



Goldenberry High Tunnel Trials
Pest Problems with 'Gigante'
Lepidopterans
Tomato Hornworm



Goldenberry High Tunnel Trials

Pest Problems with 'Gigante'

Lepitdopterans

Unknown



Date	Pesticide	Target	Plant
5/25	Sevin	Lema Beetle	Goldenberry
6/13	Sevin	Lema Beetle	Goldenberry
6/25	Admite Bt	Hornworm	Black Nightshade
7/14	Javelin Bt	Hornworm and Lepidopterans	Goldenberry and Black Nightshade
7/21	Neemix	Lema Beetle	Goldenberry
7/31	BeetleGone Bt	Lema Beetle	Goldenberry
9/20	Javelin Bt	Lepidopterans	Goldenberry

Questions?

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