

2020 Seedless Watermelon Variety Evaluation in Indiana

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Horticulture and
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Standard-sized triploid watermelon

- The trial included 29 varieties and one grafted watermelon variety
- Sandy-loam soil, 1.2% organic matter
- Fertilizers applied preplant
- Spacing: 4' in-row spacing, 8' between-row spacing
- Pollenizer 'SP7', 1:2 ratio
- Transplanted on May 20, 2020
- Harvested four times on July 23, July 30, Aug. 6 and Aug. 13
- Randomized complete block design, 3 blocks



| Variety | Seed Source |
|---------------------|-----------------|
| NUN 7187 | BASF |
| NUN 7197 | BASF |
| NUN 6177 | BASF |
| Embassy | BASF |
| E26C.00124 | Enza Zaden |
| Red Amber | Enza Zaden |
| Traveler | HM |
| Wayfarer | HM |
| Crunchy Red | HM |
| Secretariat | Sakata |
| Charismatic | Sakata |
| Unbridled | Sakata |
| Kingman | Sakata |
| Road Trip | Seminis |
| Tailgate | Seminis |
| Shoreline | Seminis |
| Joy Ride | Seminis |
| WDL6421 | Syngenta |
| WDL6429 | Syngenta |
| WDL7401 | Syngenta |
| WDL6411 | Syngenta |
| WDL7408 | Syngenta |
| WDL7403 | Syngenta |
| Scarlet Crisp | Syngenta |
| Fascination | Syngenta |
| Captivation | Syngenta |
| Excursion | Syngenta |
| Exclamation | Syngenta |
| Juanita | United Genetics |
| Grafted Fascination | |

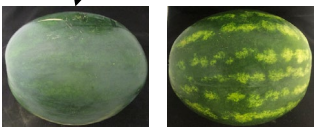
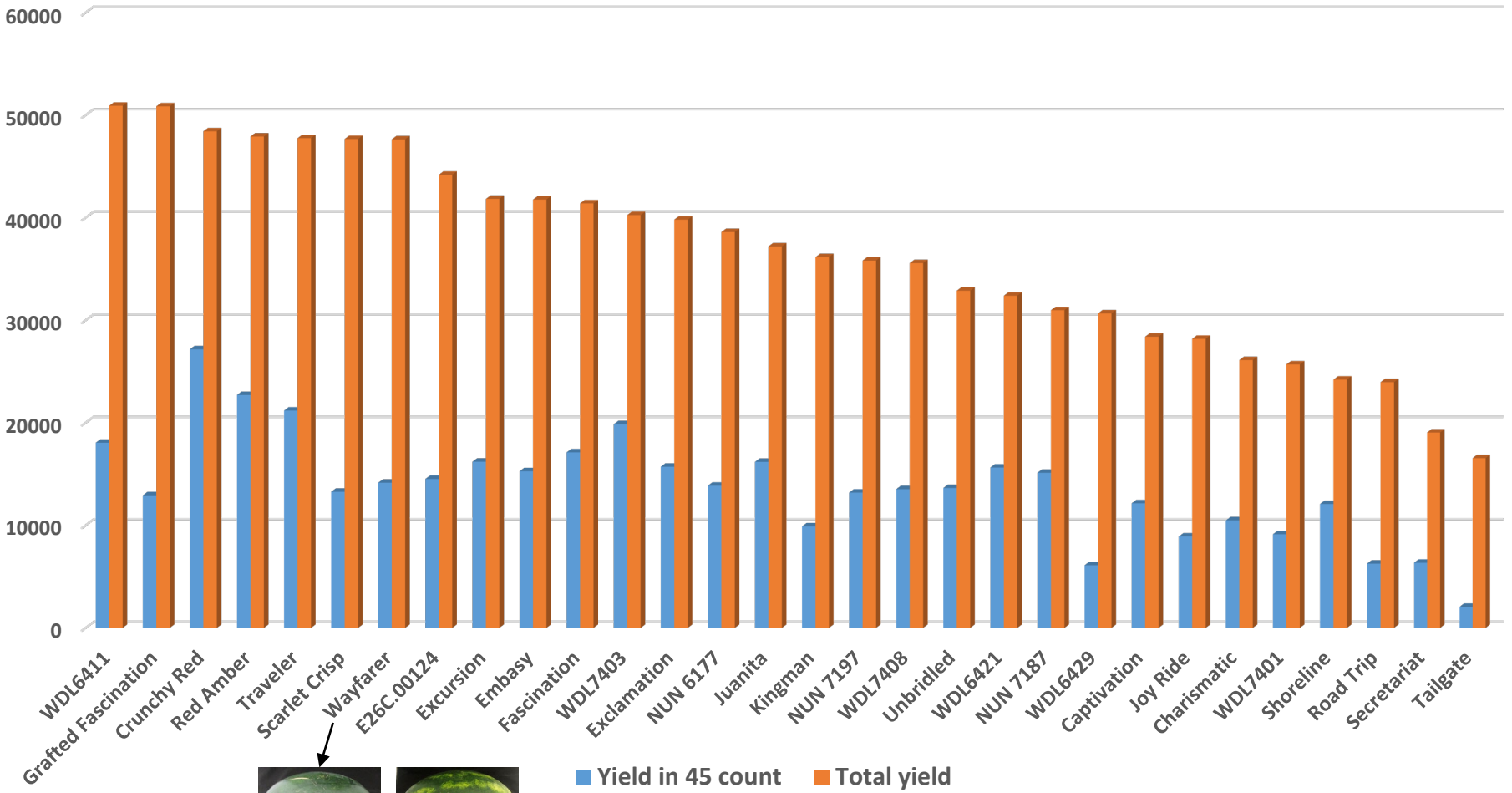
Standard-sized triploid watermelon

- ✓ The soil was treated with a non-tarped application of soil fumigant 85.5% chloropicrin in spring 2020
- ✓ Fusarium wilt was confirmed in the trial that negatively affected yields of several varieties.
- ✓ Fungicides and insecticides were sprayed to control foliar diseases and insect pests.



Standard-sized triploid watermelon

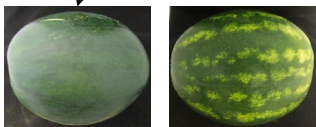
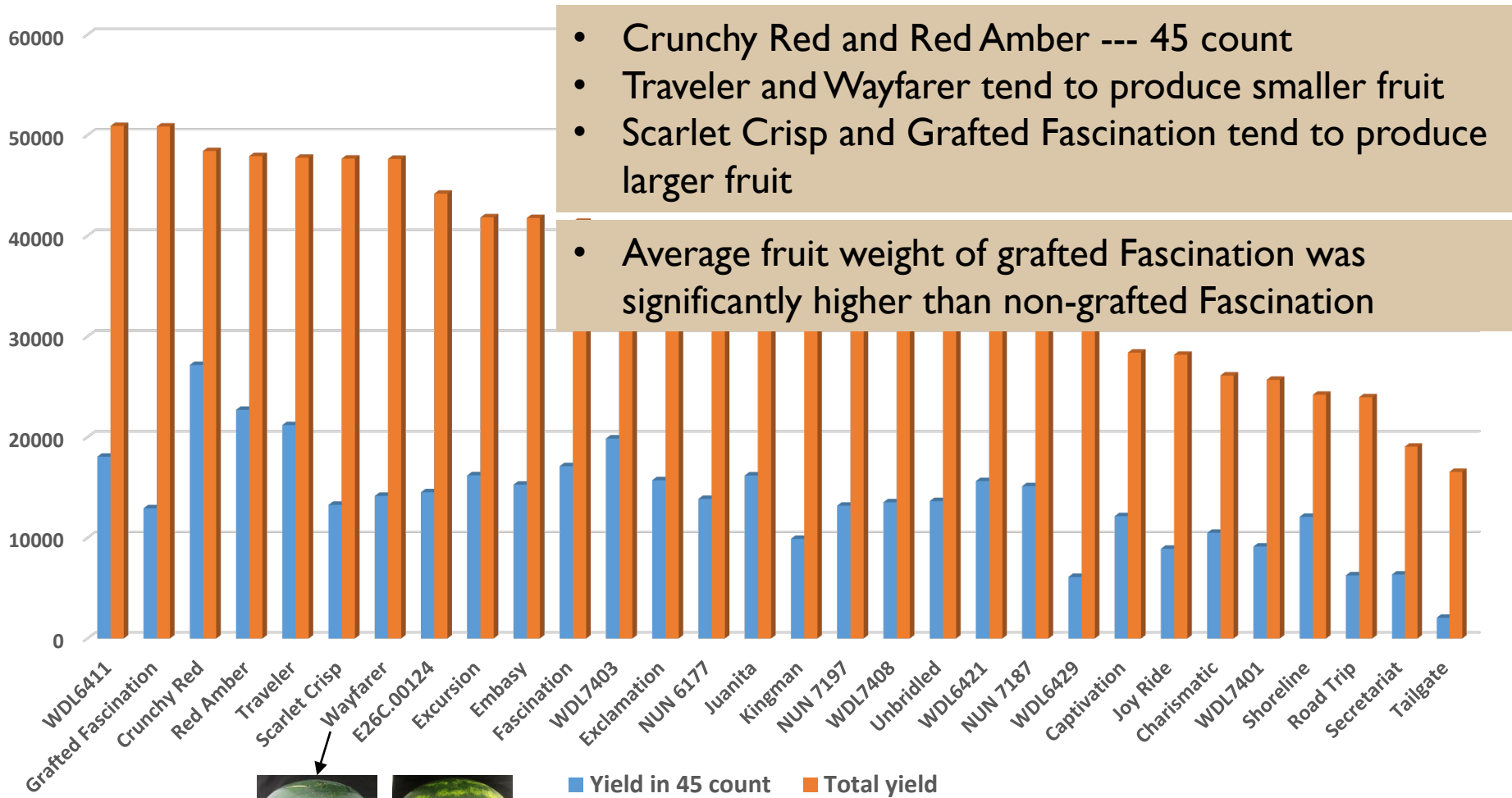
Total yield (lbs/acre) and yield in 45-count fruit category of standard-sized triploid watermelons evaluated in 2020 in Indiana



■ Yield in 45 count ■ Total yield

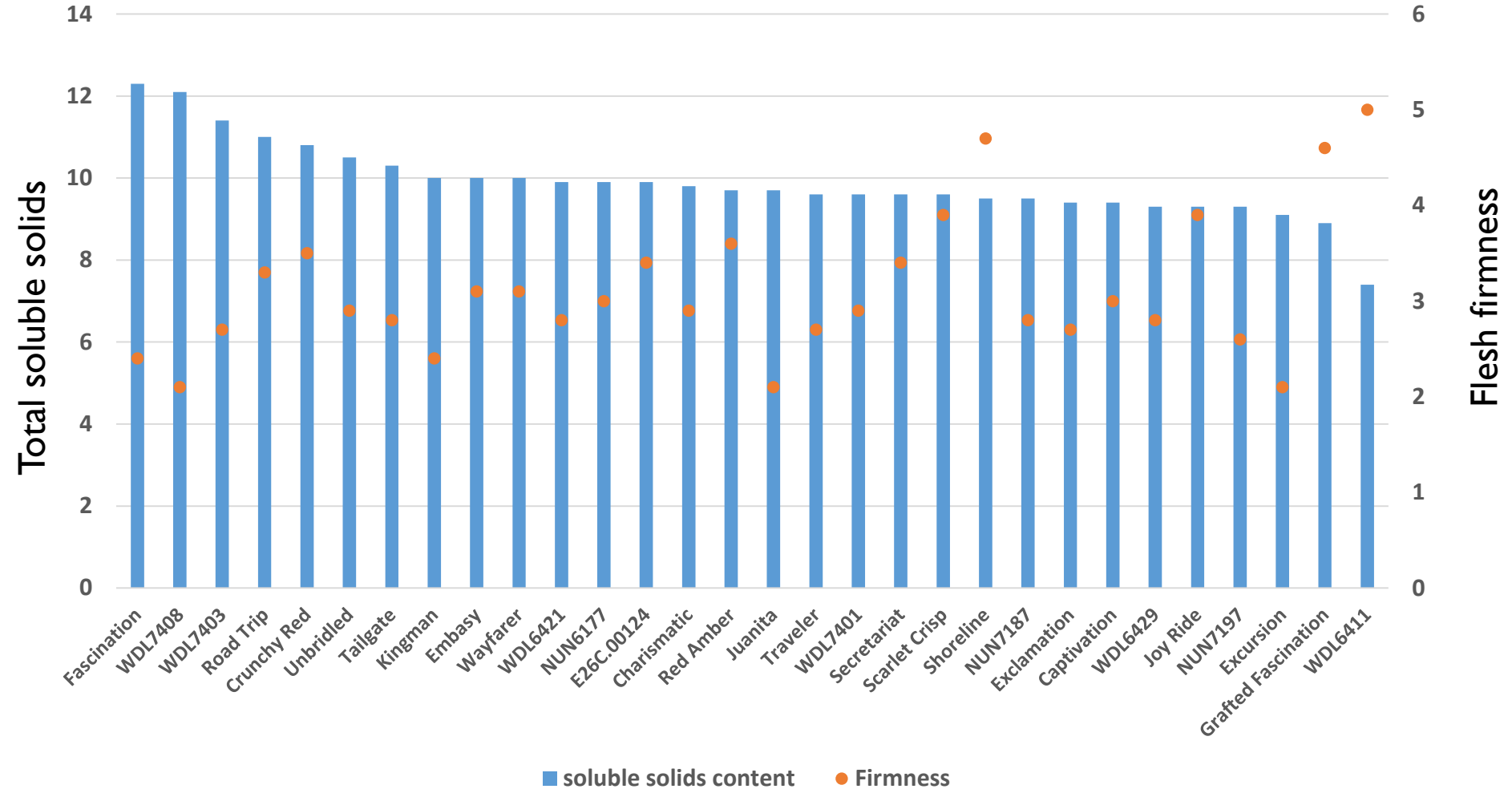
Standard-sized triploid watermelon

Total yield (lbs/acre) and yield in 45-count fruit category of standard-sized triploid watermelons evaluated in 2020 in Indiana



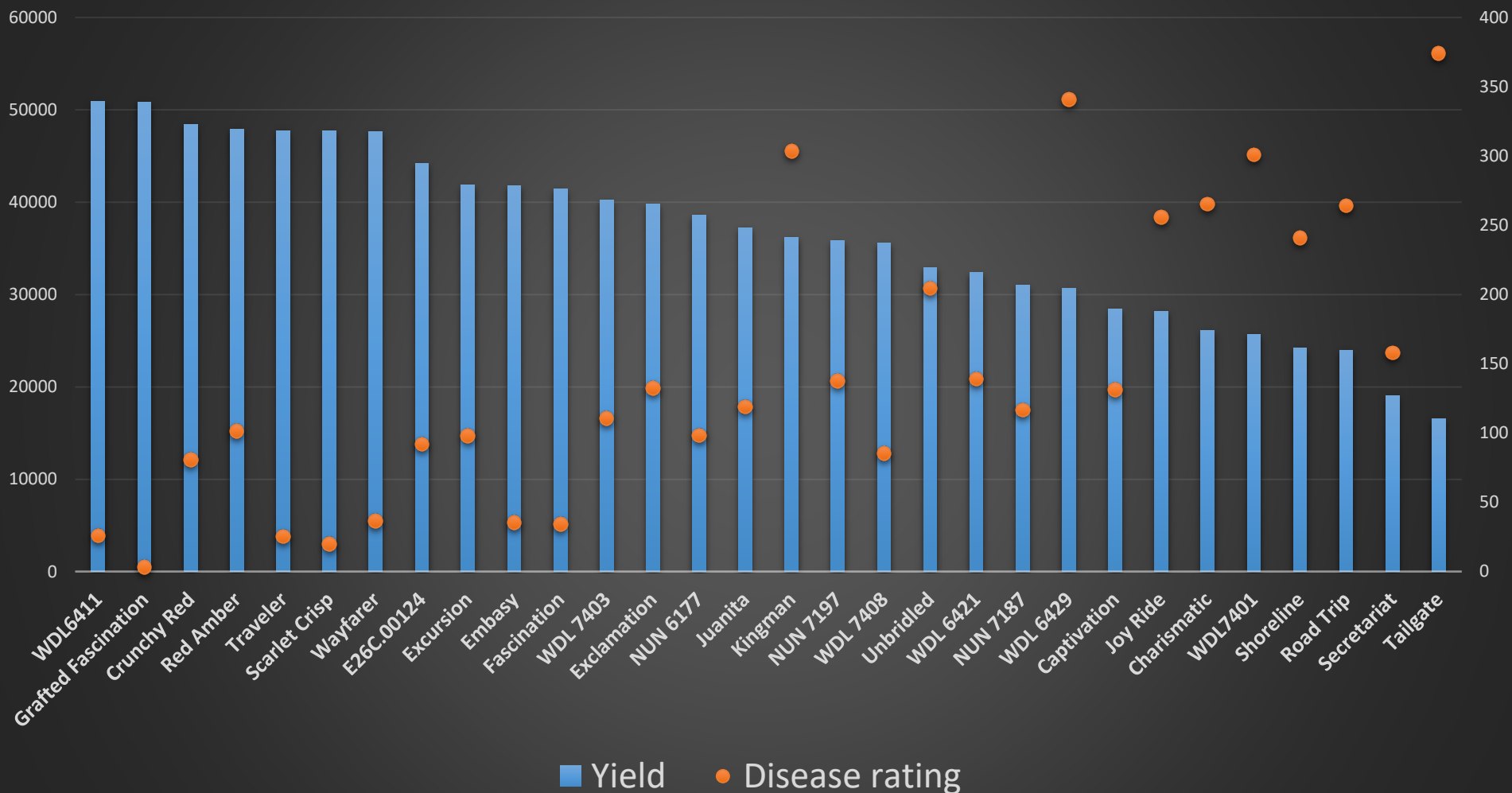
■ Yield in 45 count ■ Total yield

Standard-sized triploid watermelon



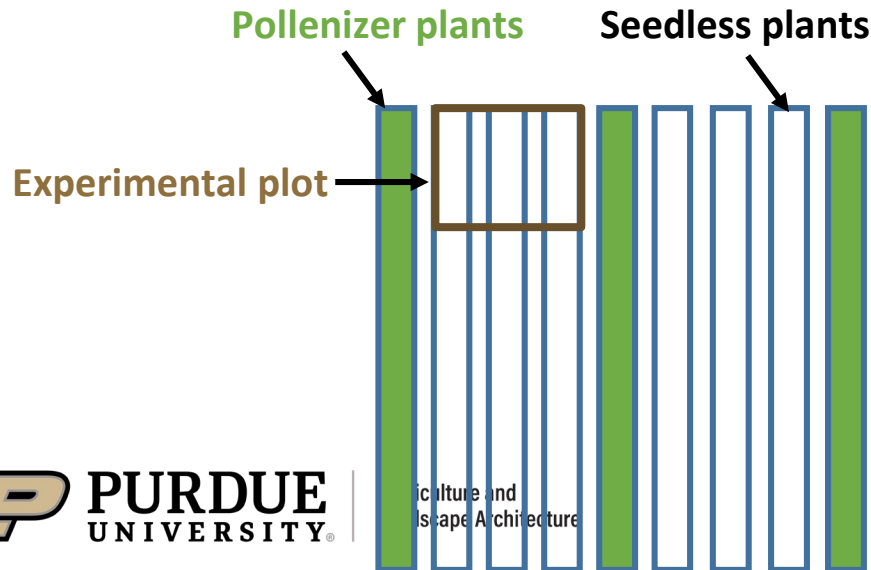
Standard-sized triploid watermelon

Yield (lbs/acre) and Fusarium wilt disease severity rating of standard-sized triploid watermelon varieties



Personal-sized triploid watermelon

- The trial included 12 varieties
- Sandy-loam soil, 1.3% organic matter
- Fertilizers applied preplant
- Spacing: 2' in-row spacing, 6' between-row spacing
- Pollenizer 'SP7', 1:3 ratio
- Harvested four times on July 20, July 27, Aug. 3 and Aug. 10
- Randomized complete block design, 3 blocks

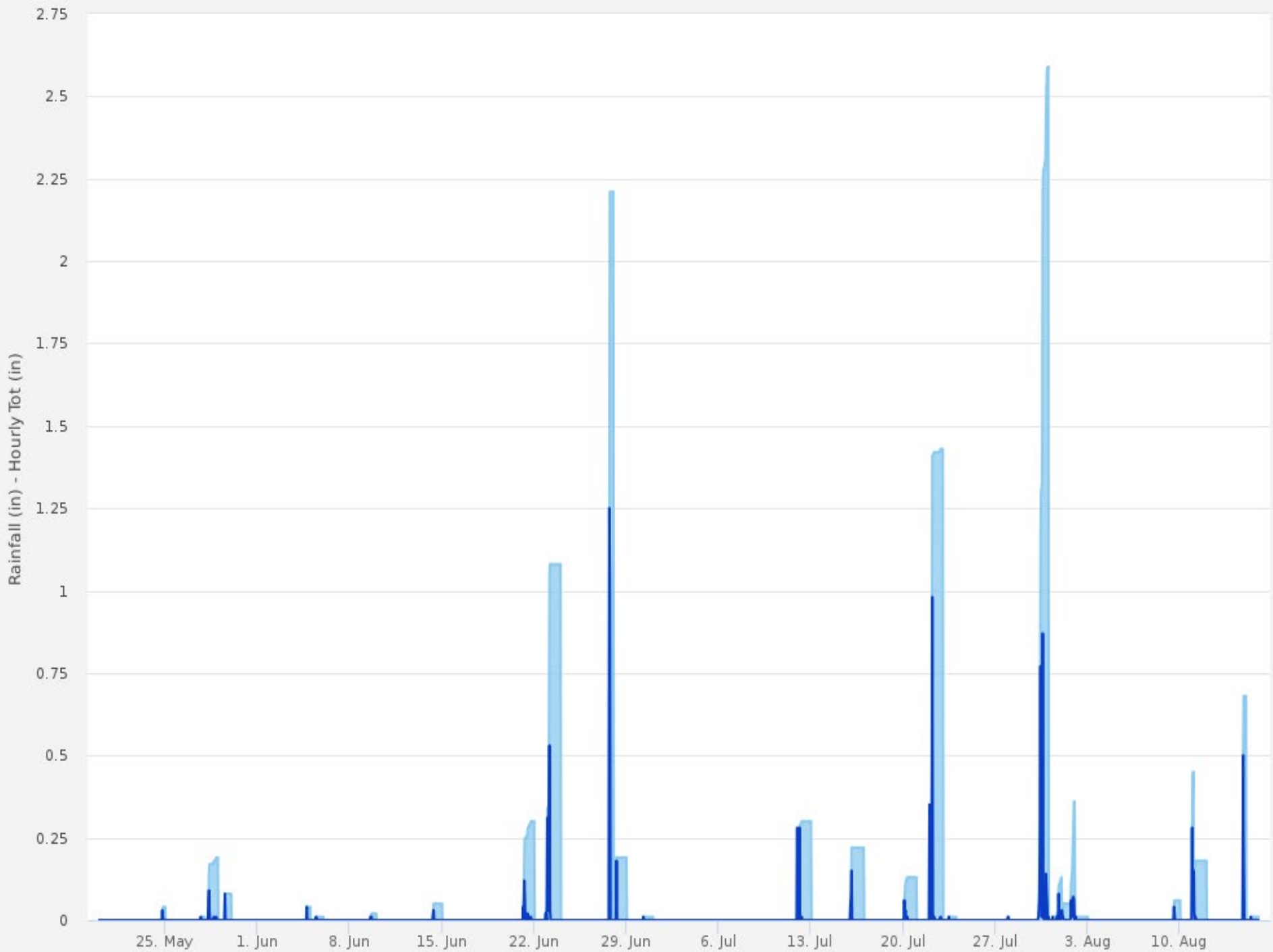


| Variety | Seed Source |
|----------------------|-----------------|
| Sirius | Syngenta |
| Rambla | United Genetics |
| UG 190315 | United Genetics |
| UG 222817 | United Genetics |
| Excite | Hazera |
| Cheetah | Hazera |
| Ocelot | Hazera |
| Nectaro/50025 | Hazera |
| Expert/50033 | Hazera |
| USAW 16104 | US Agriseeds |
| Ana | SWPAC |
| Beach Ball | SWPAC |

Personal-sized triploid watermelon

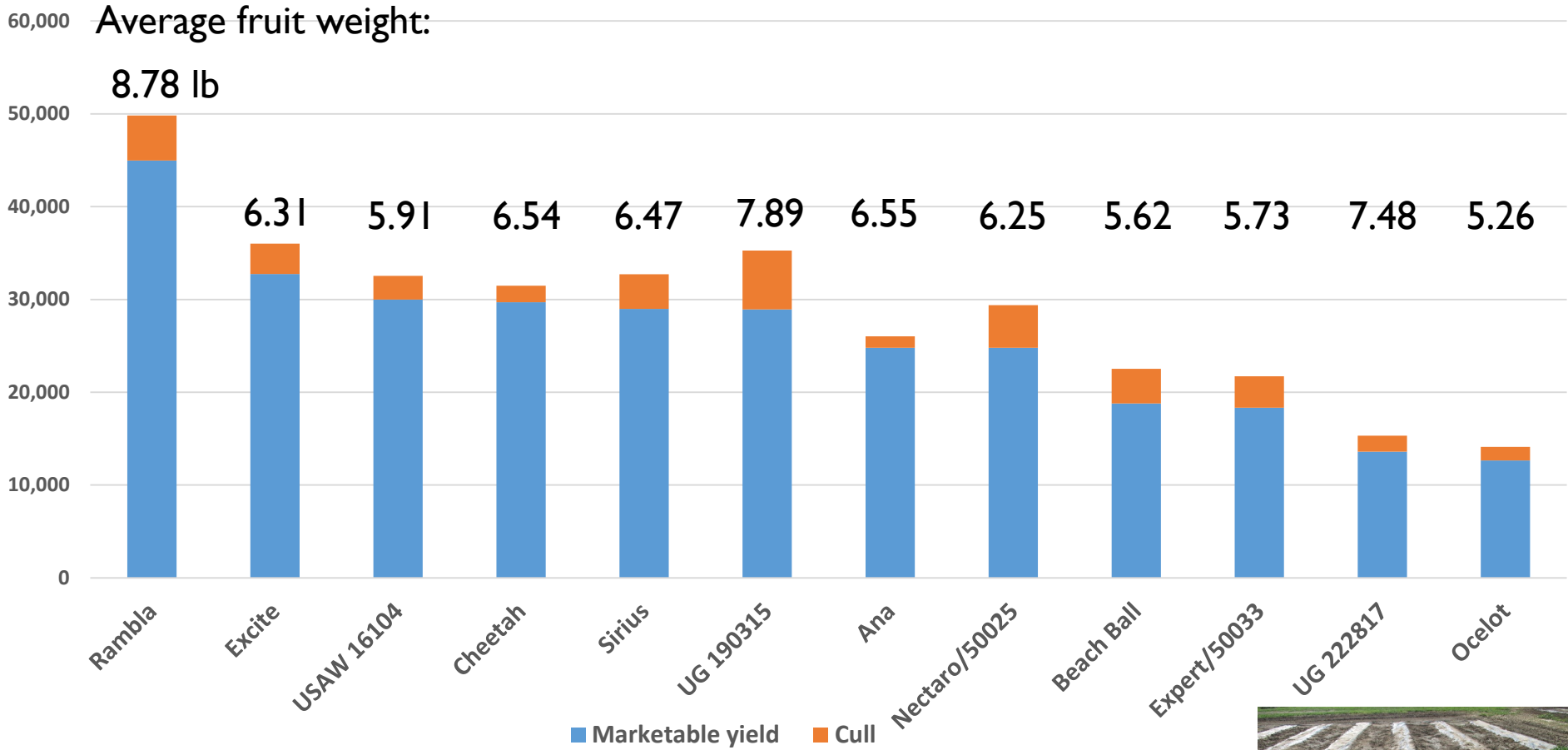
- Phytophthora blight was observed at first harvest.
- late-season vine decline after heavy rainfalls in the middle of the harvest season
- Phytophthora blight and late-season vine decline negatively affected yield of all varieties





Personal-sized triploid watermelon

Yield and average fruit weight of personal-sized triploid watermelon varieties



2020 Cantaloupe and Specialty Melon Variety Evaluation in Indiana

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Cantaloupe

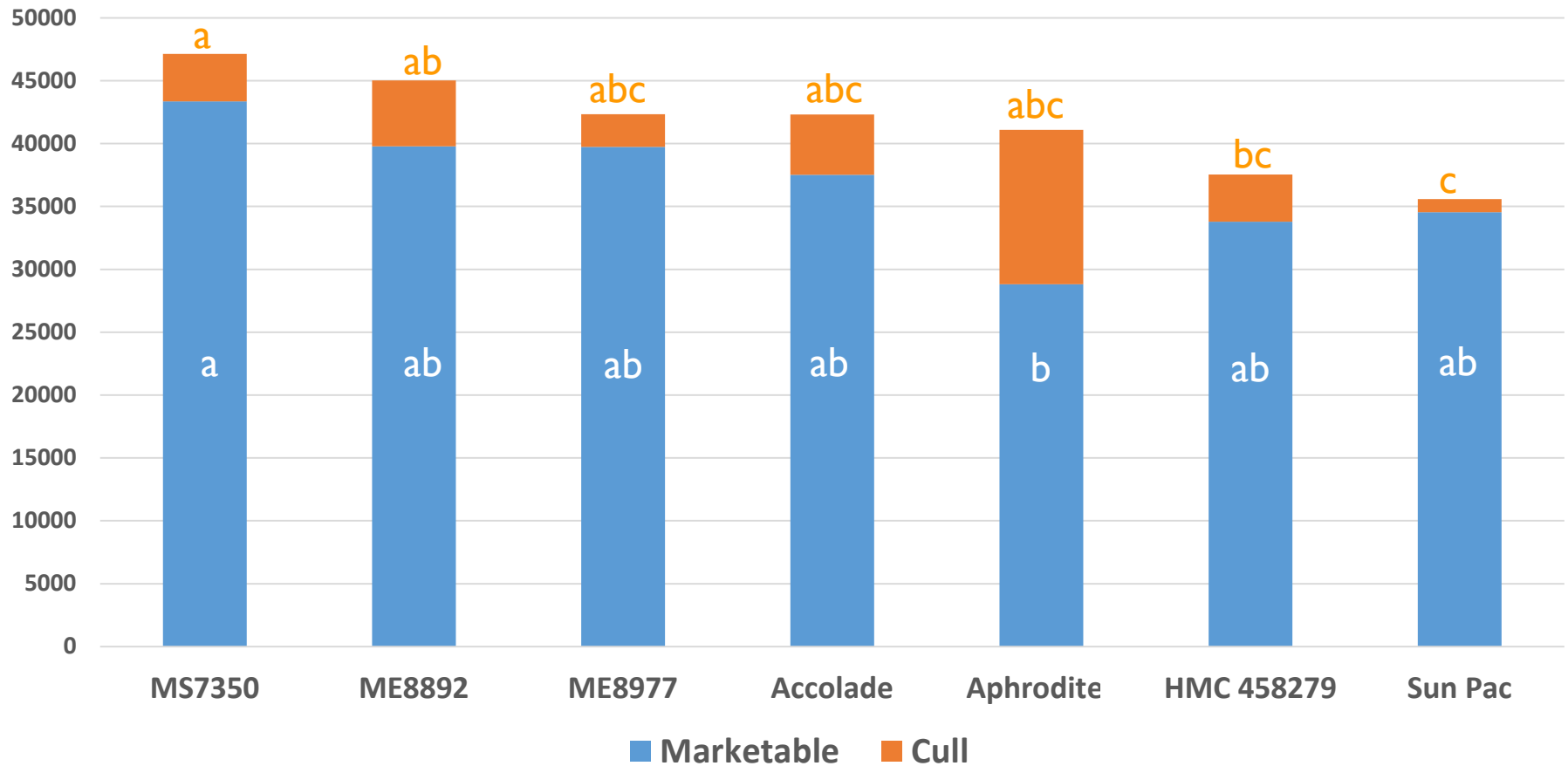
- Sandy-loam soil, 1.5% organic matter
- Fertilizers applied preplant
- Spacing: 2.5' in-row spacing, 6' between-row spacing
- Seedlings were transplanted on May 21.
- Harvest July 13 to Aug. 7, every 2-4 days
- Randomized complete block design, 3 blocks

| Cultivars | Seed Source |
|------------------|-------------|
| Accolade | Syngenta |
| Aphrodite | Syngenta |
| ME8892 (Damaris) | Syngenta |
| ME8977 | Syngenta |
| MS7350 (Heidi) | Syngenta |
| Sun Pac | HM Clause |
| HMC 458279 | HM Clause |



Cantaloupe

Total and marketable yield (lb/acre)

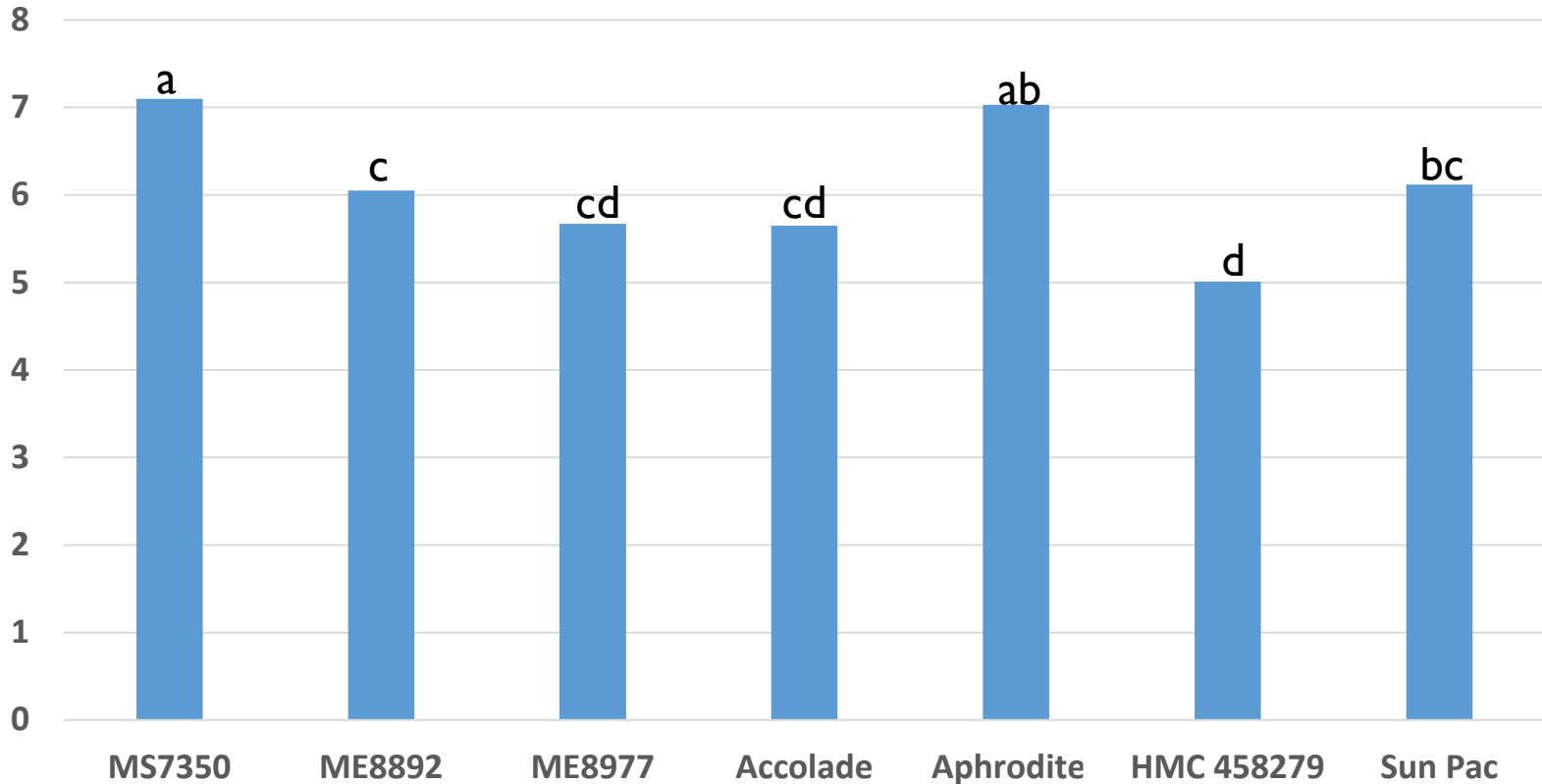


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Cantaloupe

Average fruit weight (lb)





MS7350



Aphrodite



ME8892



Sun Pac



ME8977



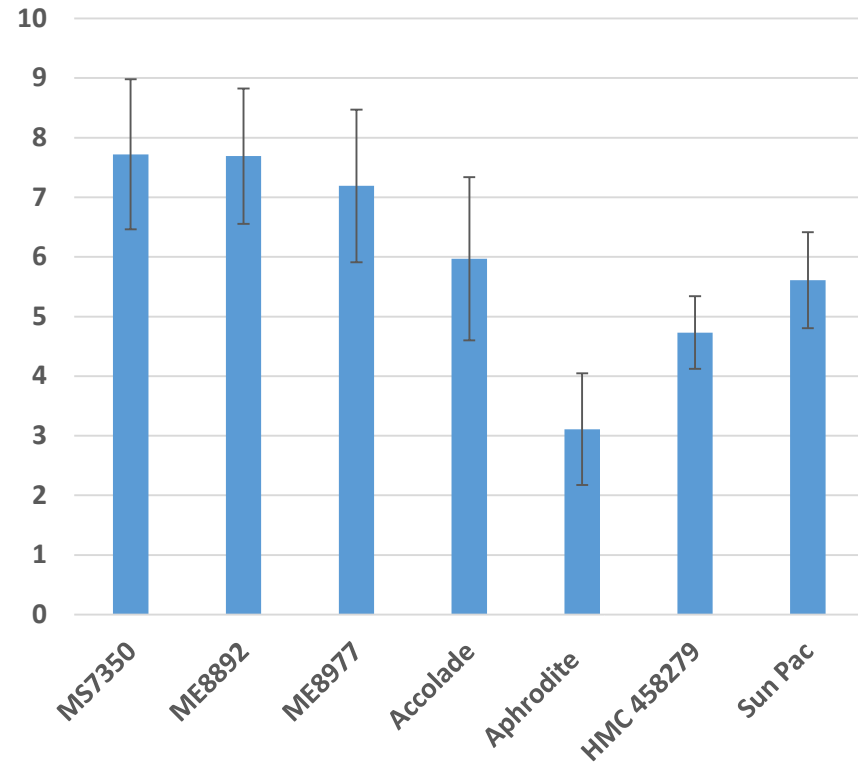
HMC458285



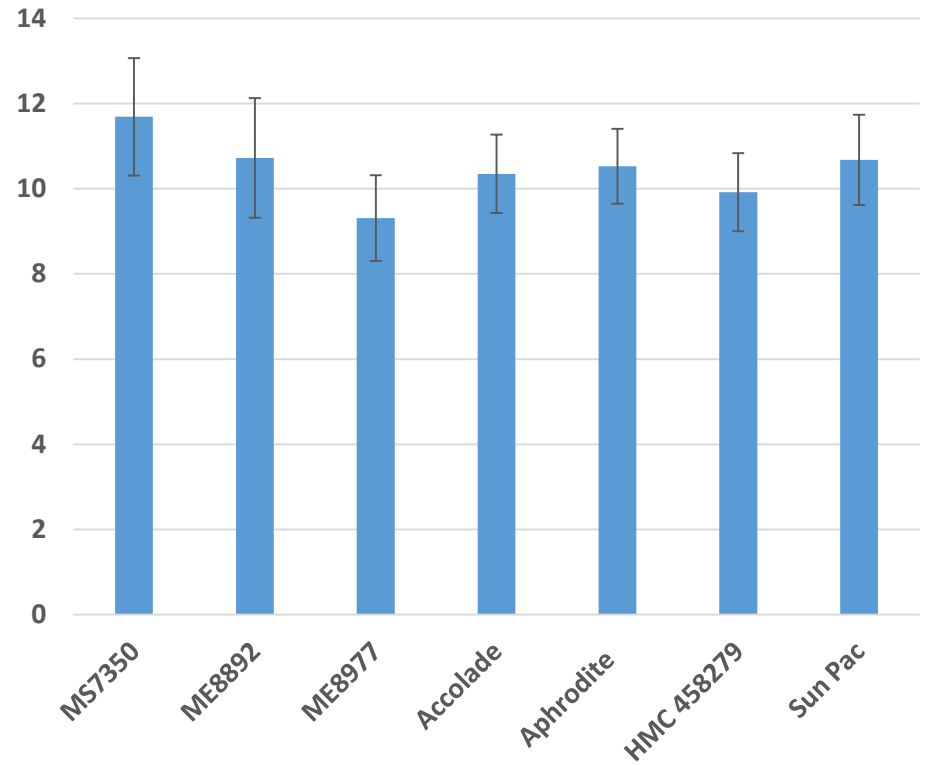
Accolade

Cantaloupe

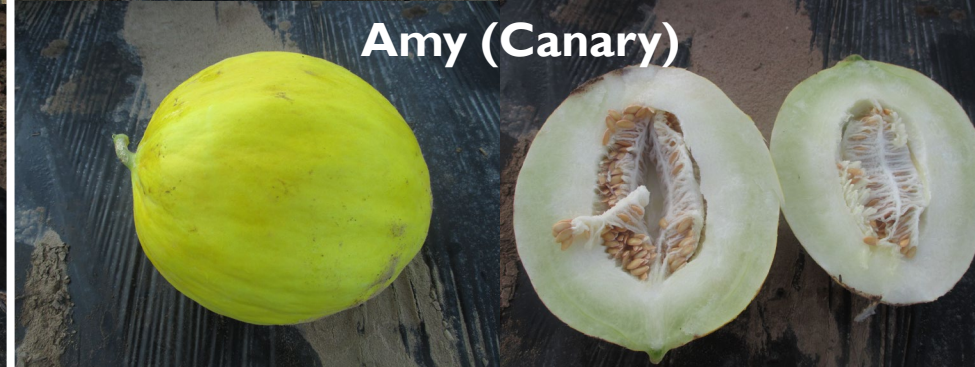
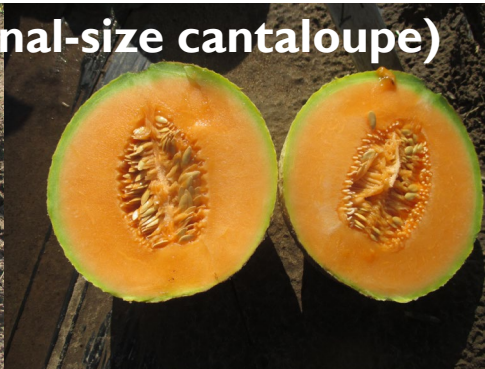
Firmness



Total soluble solids (°Brix)



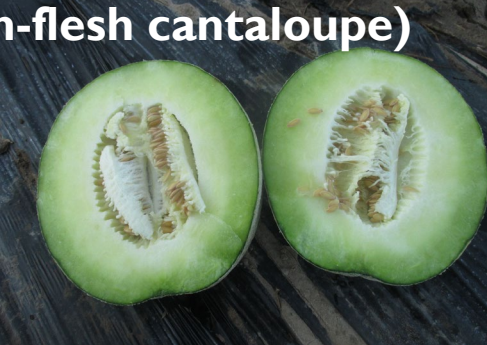
Specialty melon



Torpedo (Korean)



Sheba (green-flesh cantaloupe)



New Century (Hami)



Golden Crush (Golden melon)



San Juan (Ananas)



Honey Orange (Honeydew)



Arava (Galia)

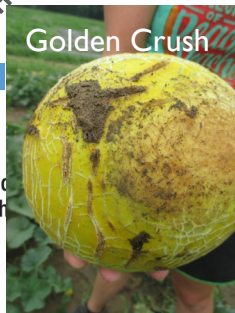
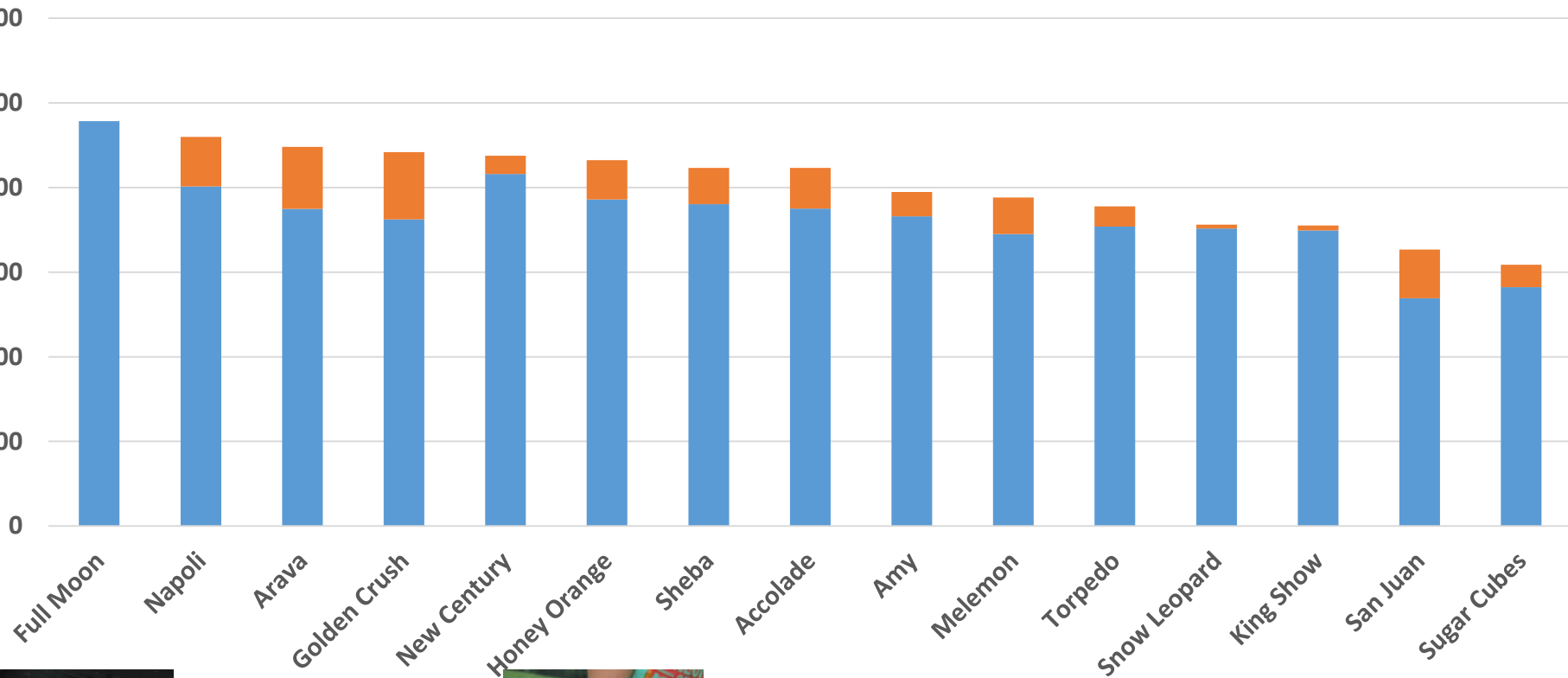


King Show (Santa Clause melon)



Specialty melon

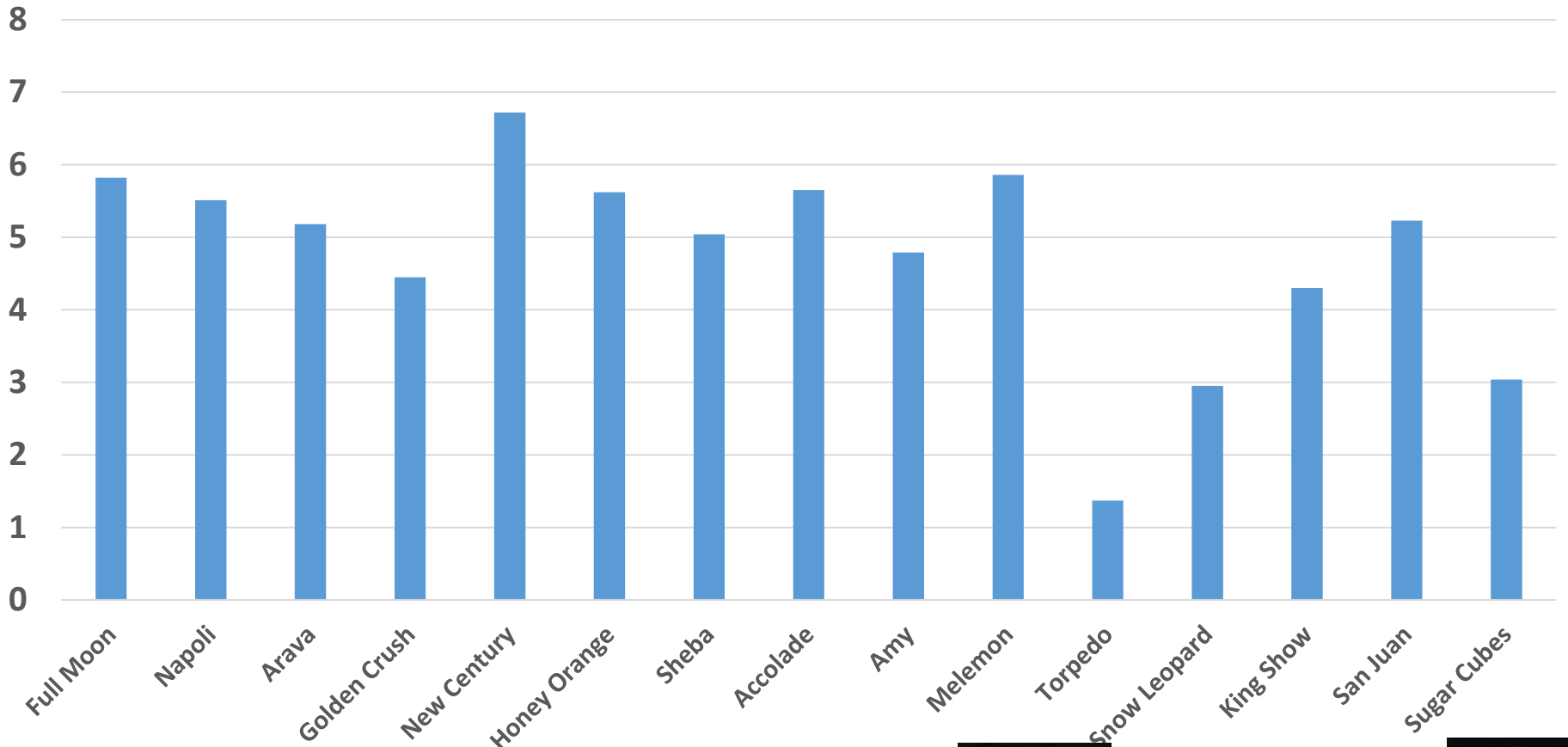
Specialty melon marketable and total yield (lbs/acre)



■ yield (lb/acre)
 ■ cull wt

Specialty melon

Average fruit weight (lb)



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New Century

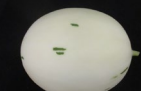


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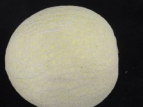
Torpedo



Snow Leopard



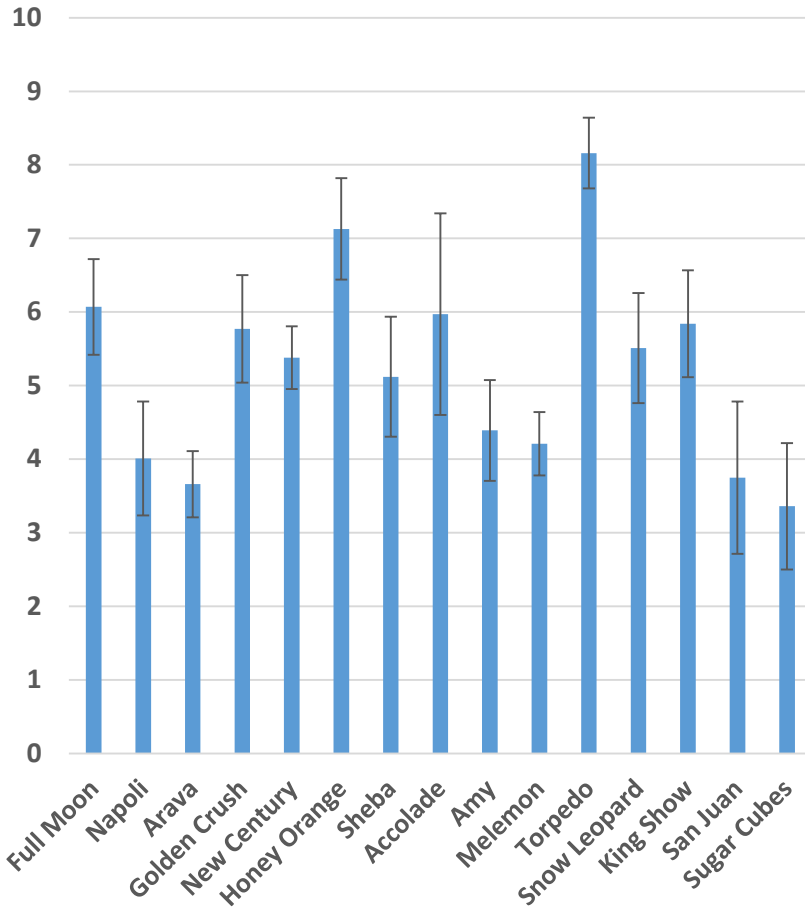
Sugar Cube



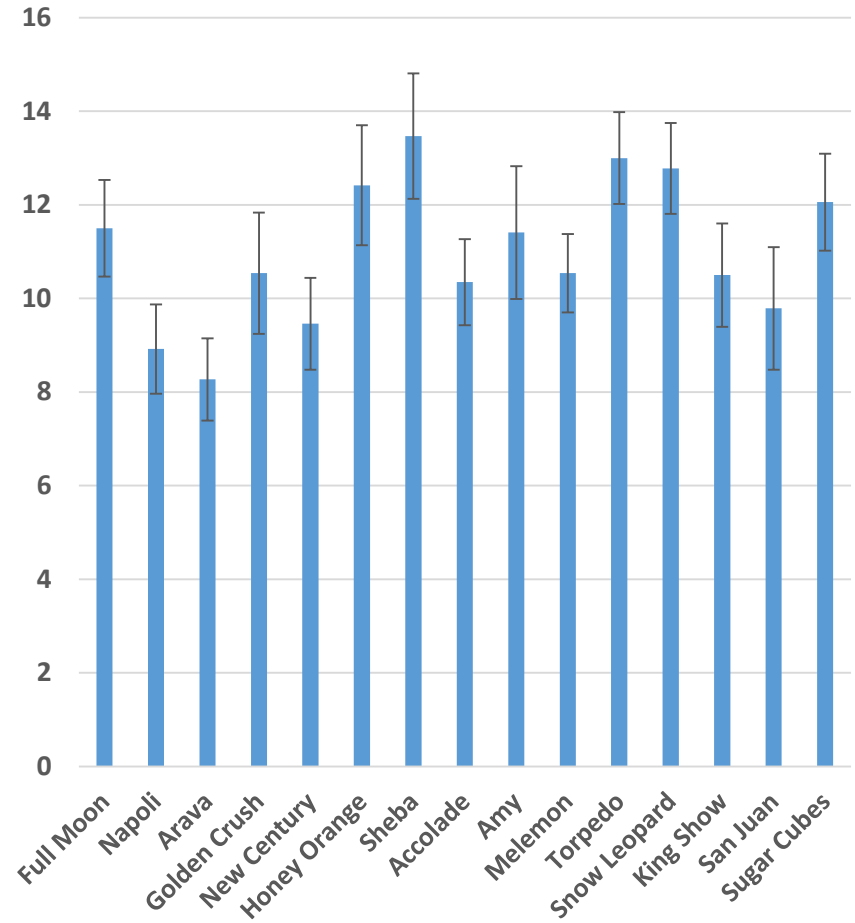
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Specialty melon

Firmness



Soluble Solids content (°Brix)



Acknowledgements

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Known-You Seed

Nunhems/BASF

Sakata

Seedway

Seminis

Syngenta

Sostena

Origene

US Agriseeds

United Genetics



United States Department of Agriculture
National Institute of Food and Agriculture

