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Yield & Quality Attributes of Spring Grown Shipper Sweet Corn Varieties in the Southeastern USA

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Introduction

Table 1. Sweet Corn Availability in the Eastern U.S.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Florida	In season	In season	In season	In season	In season	Not in season	Not in season	Not in season	Not in season	Not in season	In season	In season
Georgia	Not in season	Not in season	Not in season	Not in season	In season	In season	In season	Not in season	Not in season	In season	In season	Not in season
New York & Northern U.S.	Not in season	Not in season	Not in season	Not in season	Not in season	Not in season	In season	In season	In season	Not in season	Not in season	Not in season

Note. Green-colored cells labeled "in season" indicate when sweet corn is available within each area.

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Introduction

- Types of Sweet Corn:
  - SU - Sugary
  - SE – Sugary Enhanced
  - Sh2 – Supersweet

- Desirable Ear Characteristics:
- "If it fits, it ships."
  - Total Length (Ear + Shank) = 11 in
  - Ear Length = 7-8 in
  - Ear Width = 1.8 - 2.2 in
  - Blank Tip = <0.5 in
  - Other Defects = Split Kernels, Poor Pollination

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Objective

This study aims to evaluate and compare bicolor, white, and yellow sweet corn varieties grown under spring conditions in Georgia.

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Sweet Corn Trials Conducted in Georgia

1. Bicolor

2. Yellow

3. White

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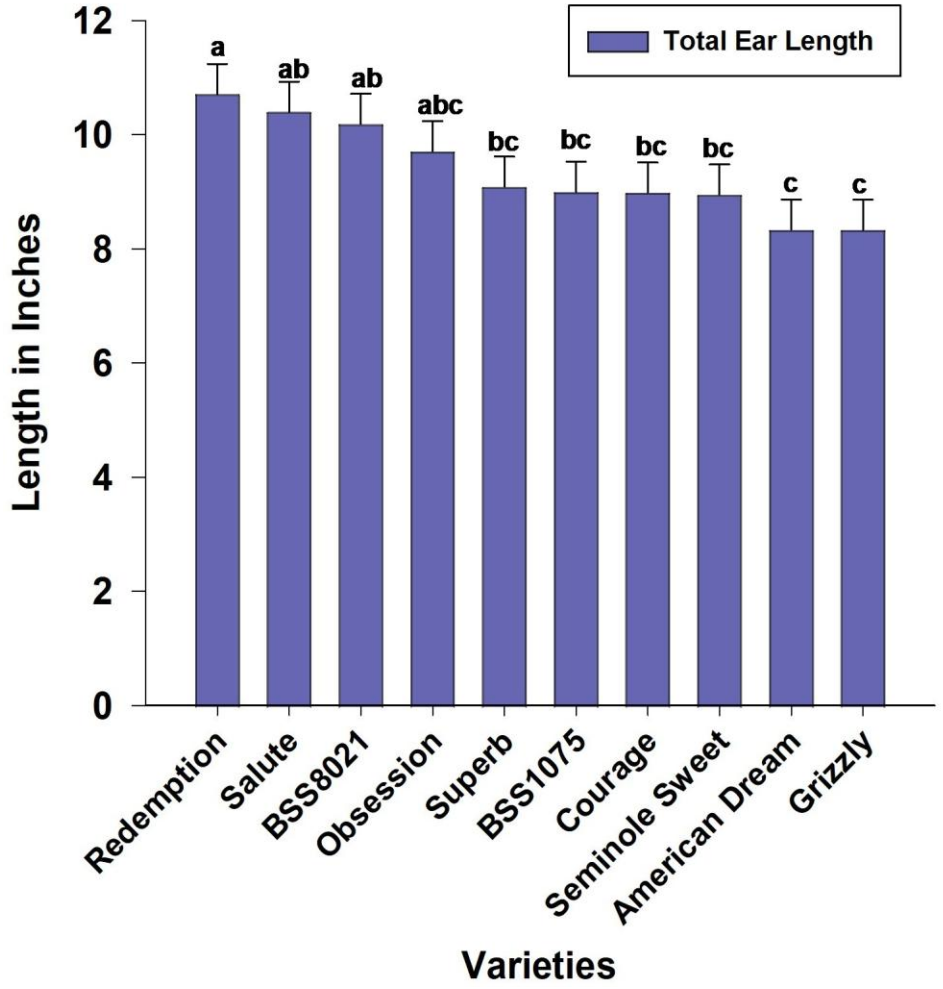
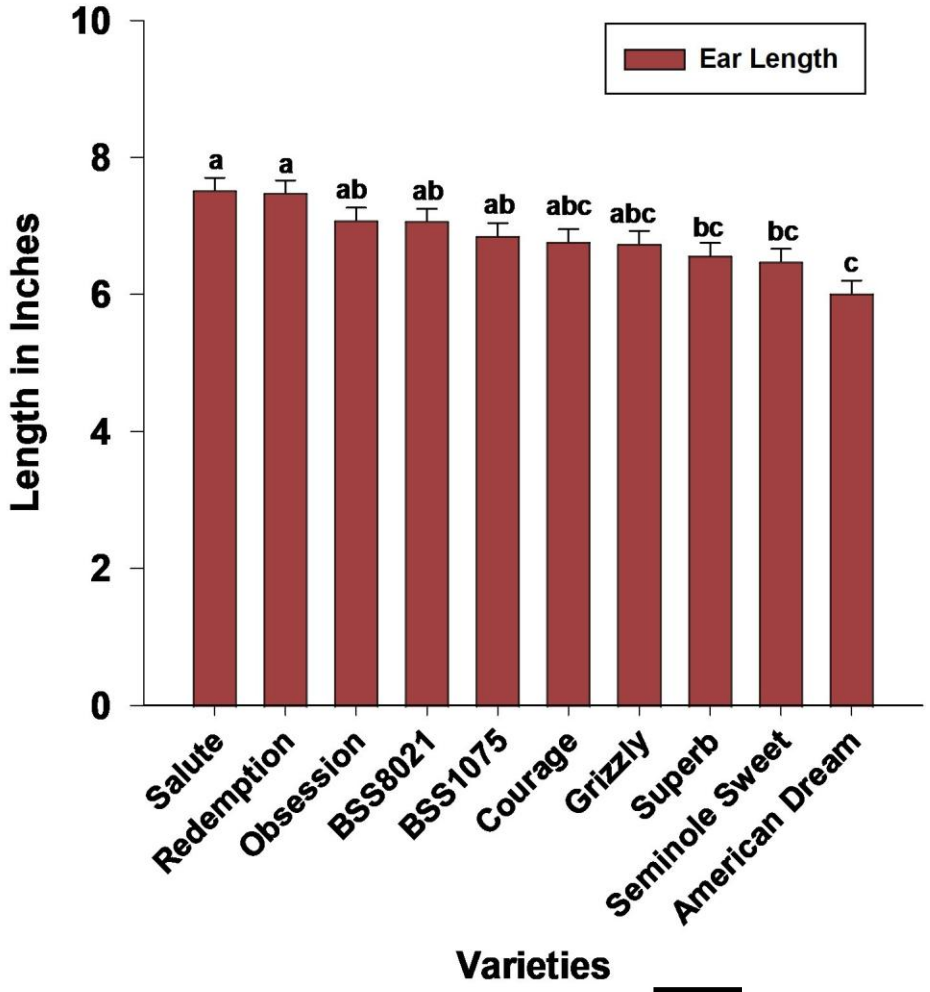
Trial 1: Bicolor Varieties

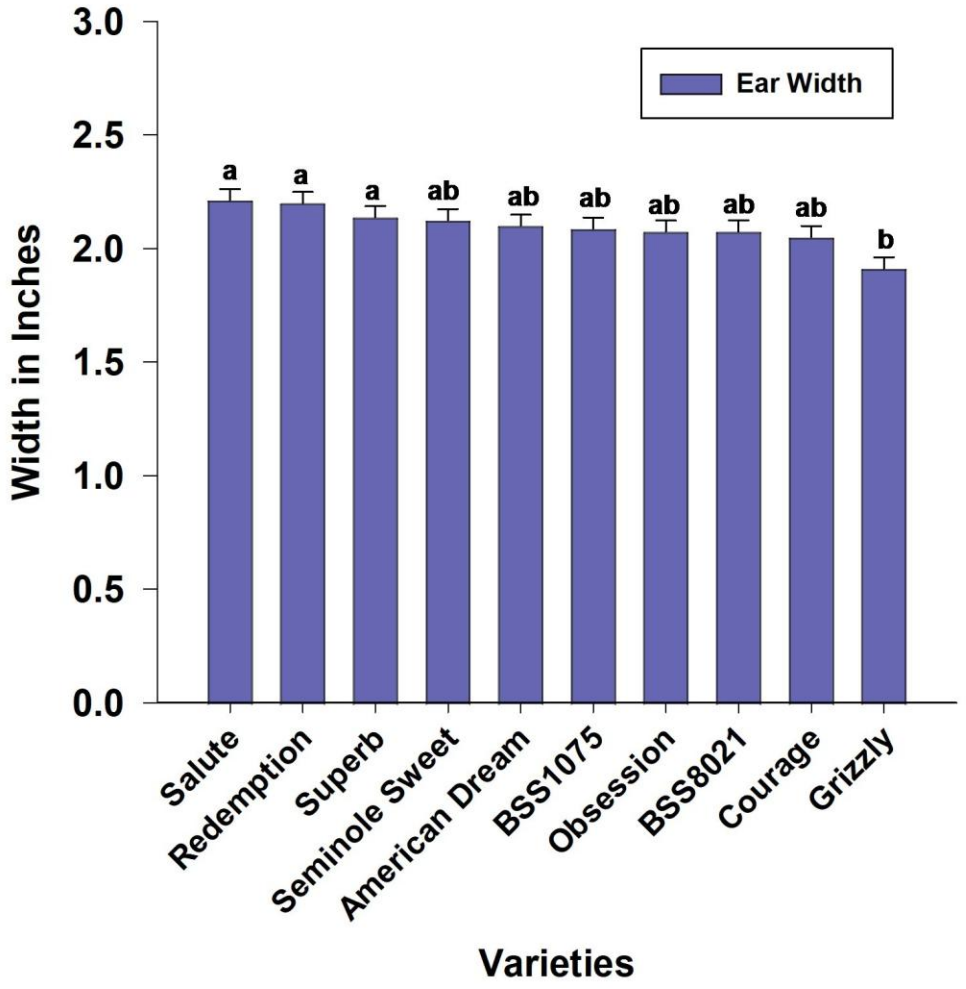
Variety	Source
BSS1075	Syngenta
BSS8021	Syngenta
American Dream	IFSI
Courage	IFSI
Grizzly	Crookham
Obsession	Seminis
Redemption	IFSI
Salute	IFSI
Seminole Sweet	IFSI
Superb	IFSI

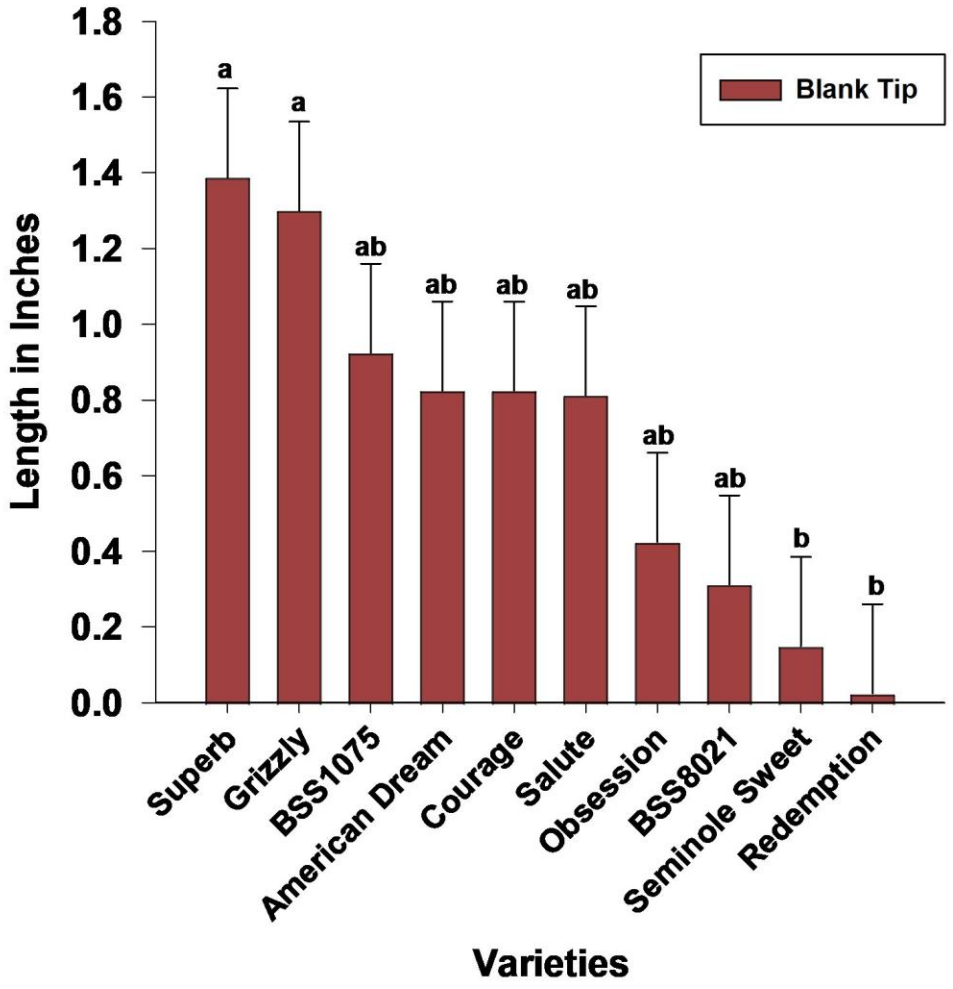
Results: Bicolor Ear Characteristics





Results: Bicolor Ear Characteristics





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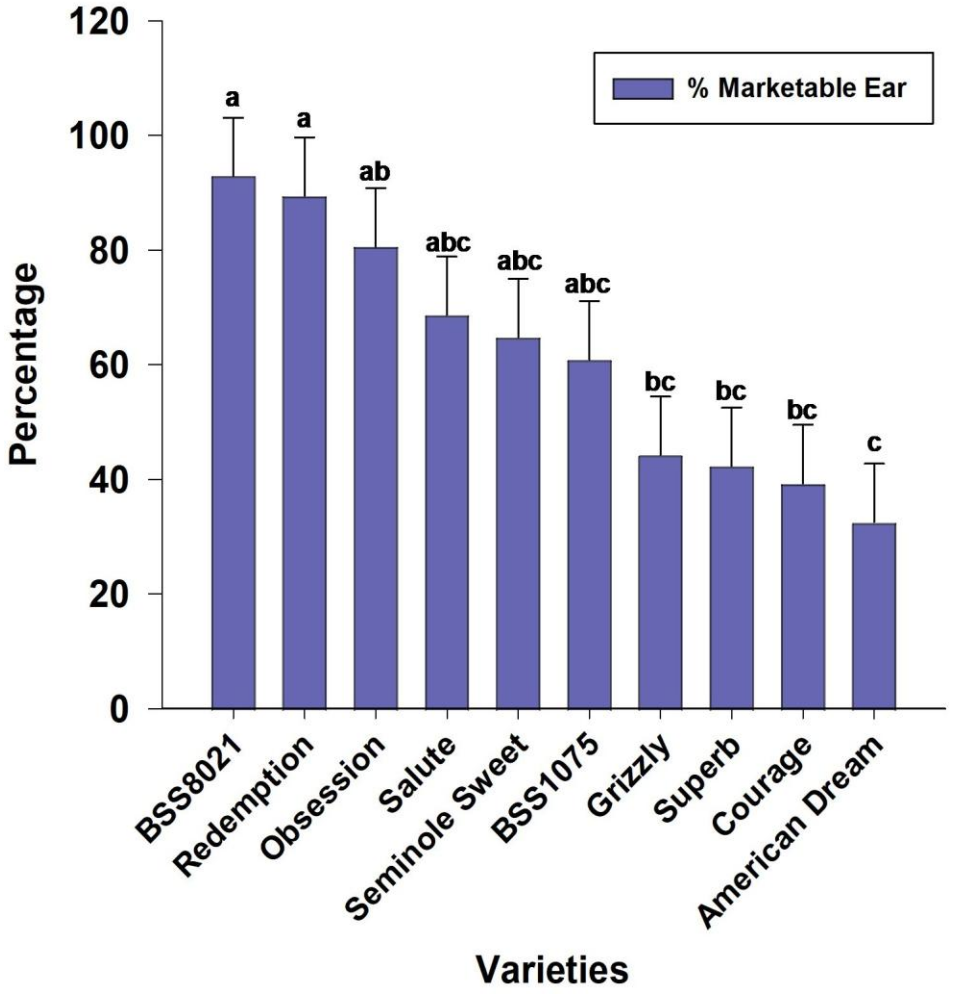
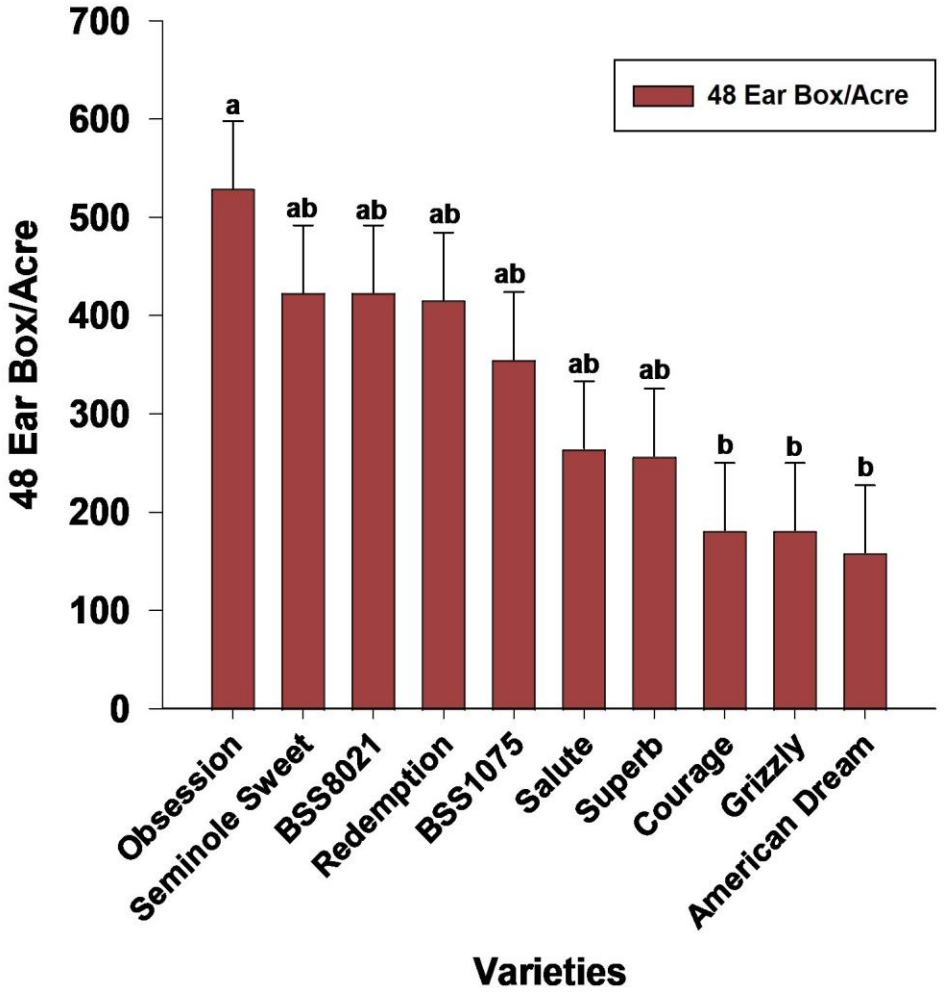
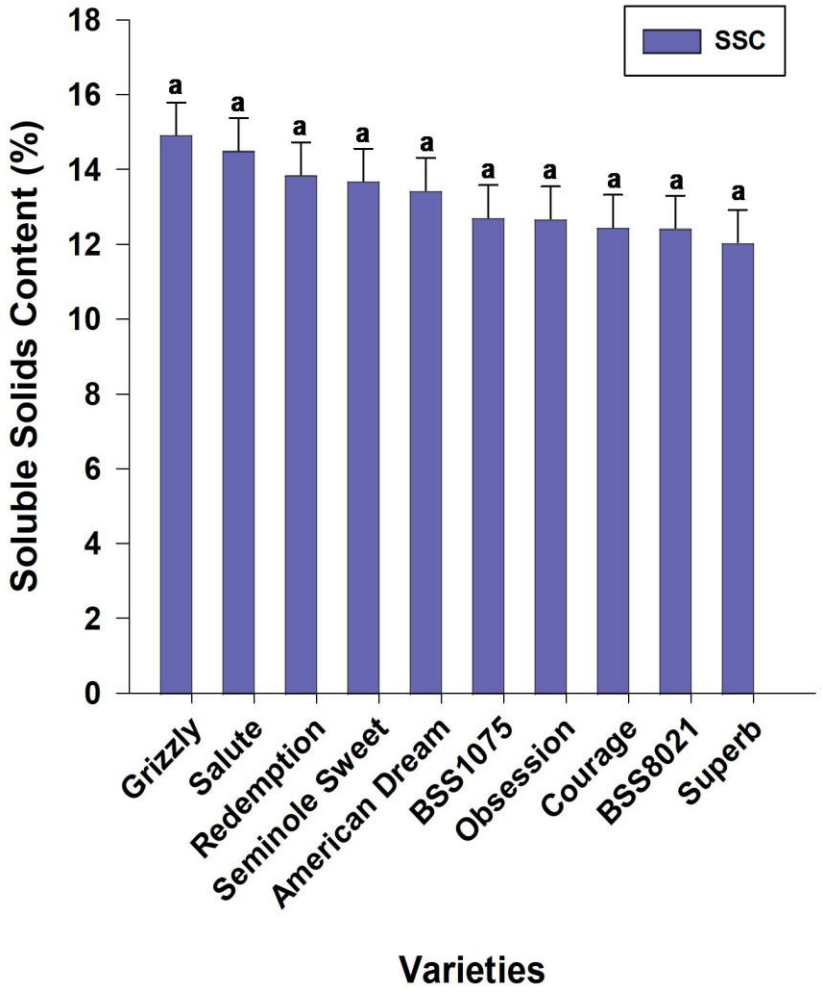
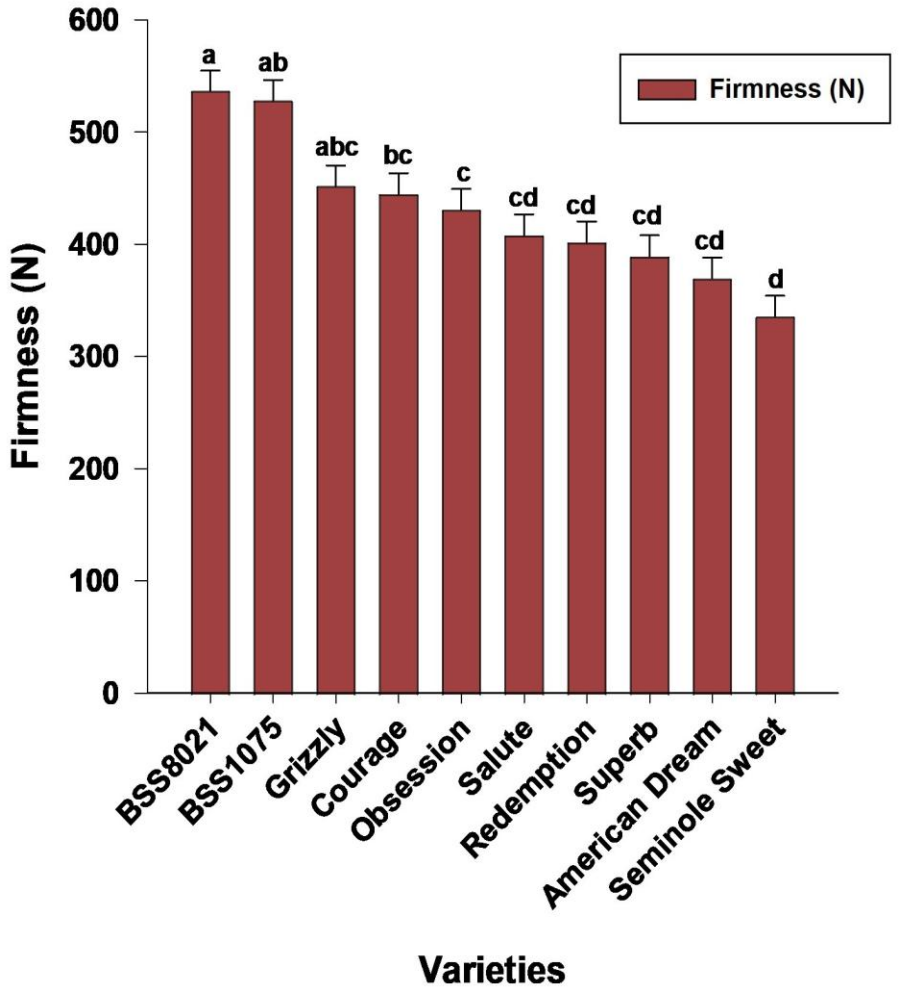
Results: Bicolor Marketability & Yield





Results: Bicolor Quality Attributes





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Summary: Bicolor Variety Trial

- Yield, Marketability, and Good Ear Characteristics:
  - Obsession
  - Seminole Sweet
  - BSS8021
  - Redemption

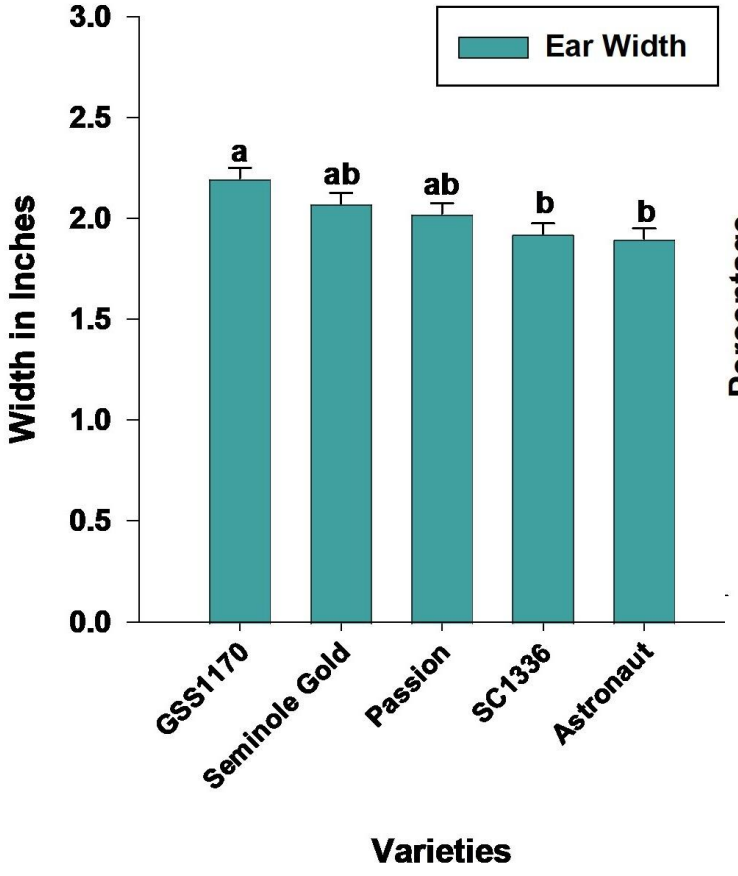
- Firmness:
  - Most tender:
    - Seminole Sweet
  - Higher firmness:
    - BSS8021

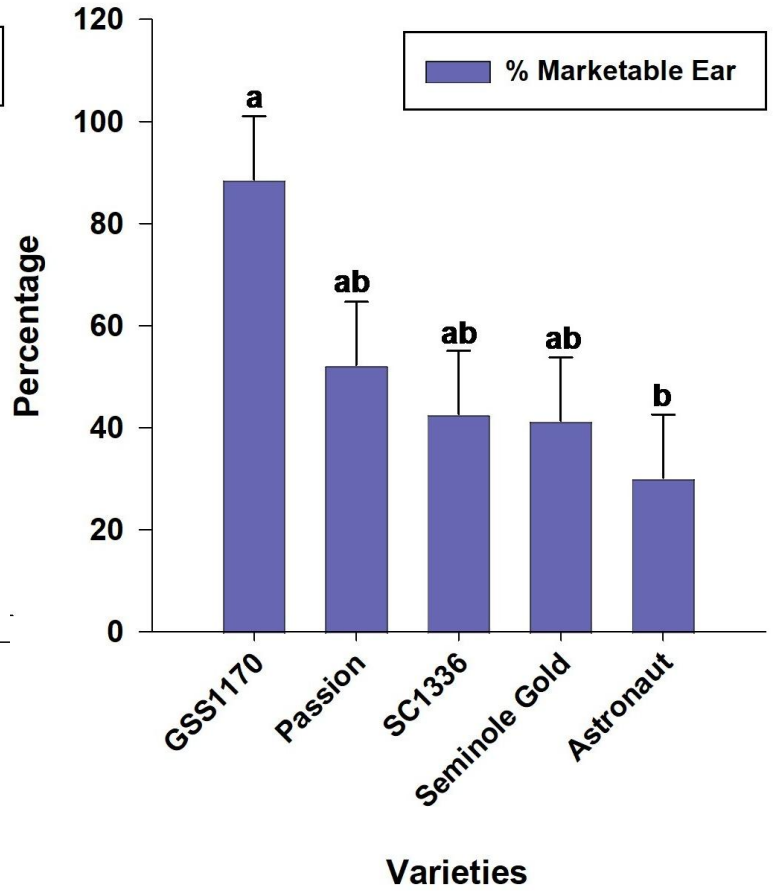
Trial 2: Yellow Variety Trial

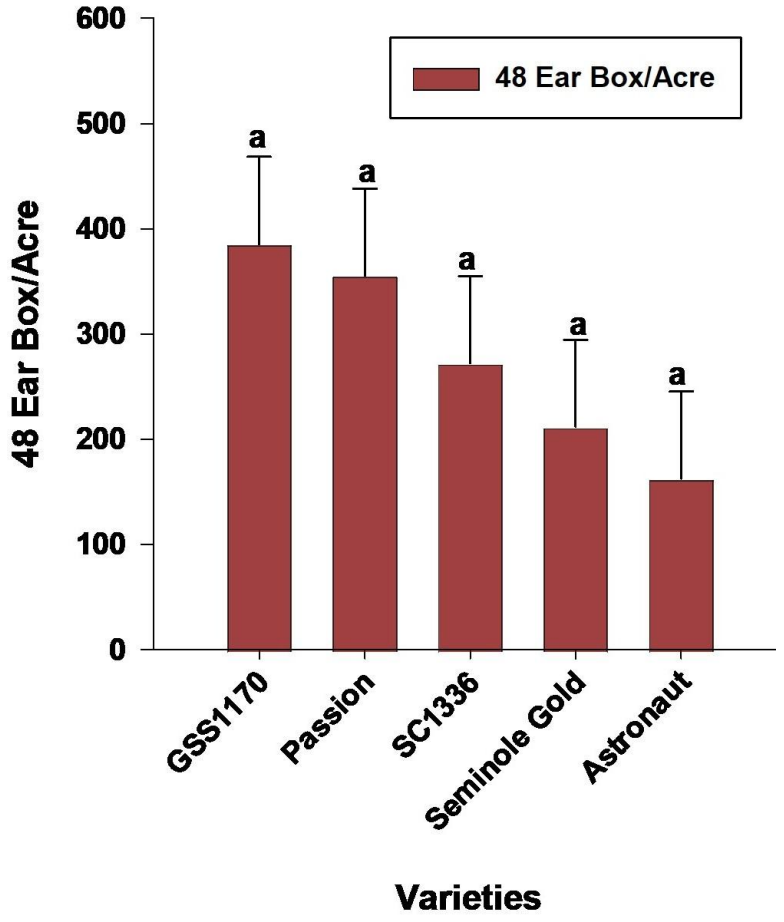
Materials and Methods

Variety	Source
GSS1170	Syngenta
SC1336	Seminis
Astronaut	Crookham
Passion	Seminis
Seminole Gold	IFSI

Results: Yellow Ear & Yield Characteristics







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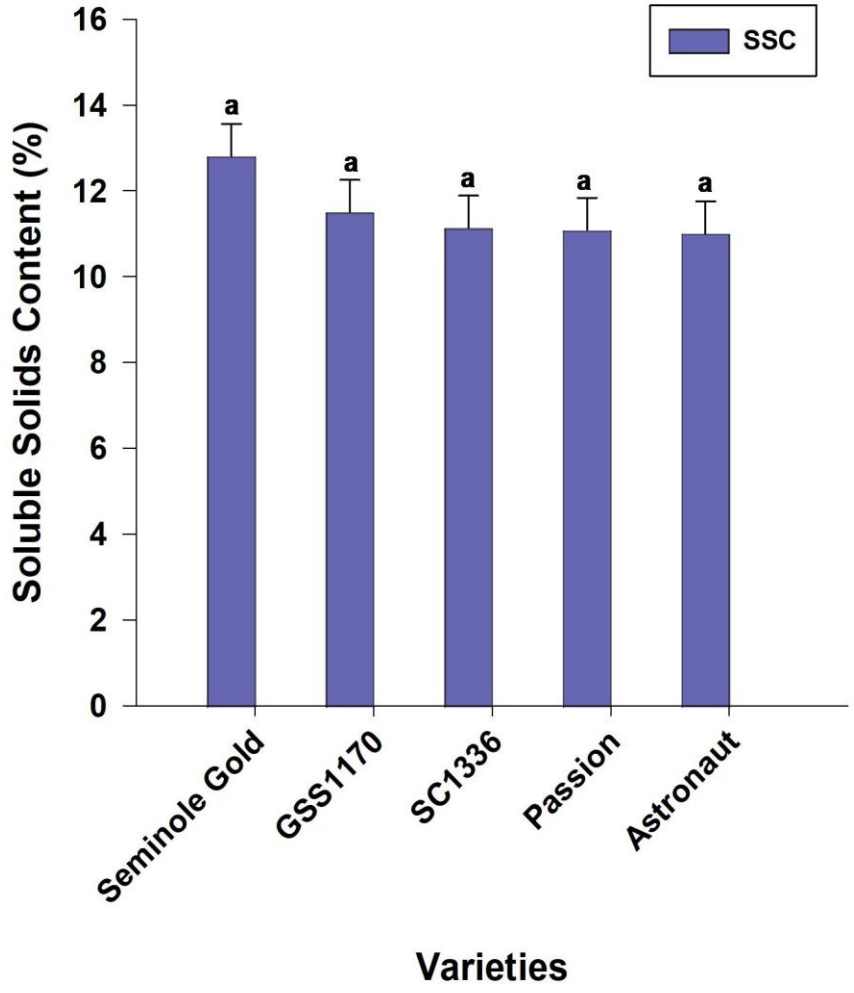
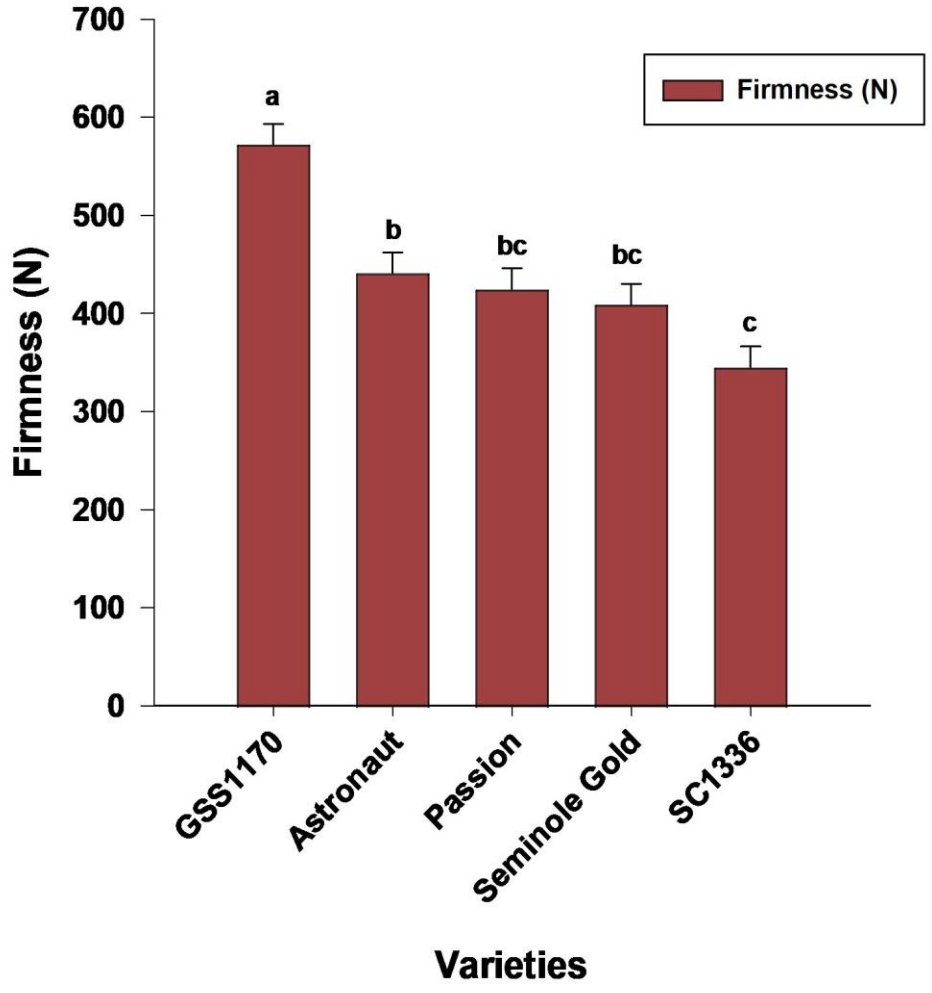
Results: Yellow Quality Attributes





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Summary: Yellow Variety Trial

- Yield, Marketability, and Good Ear Characteristics:
  - GSS1170

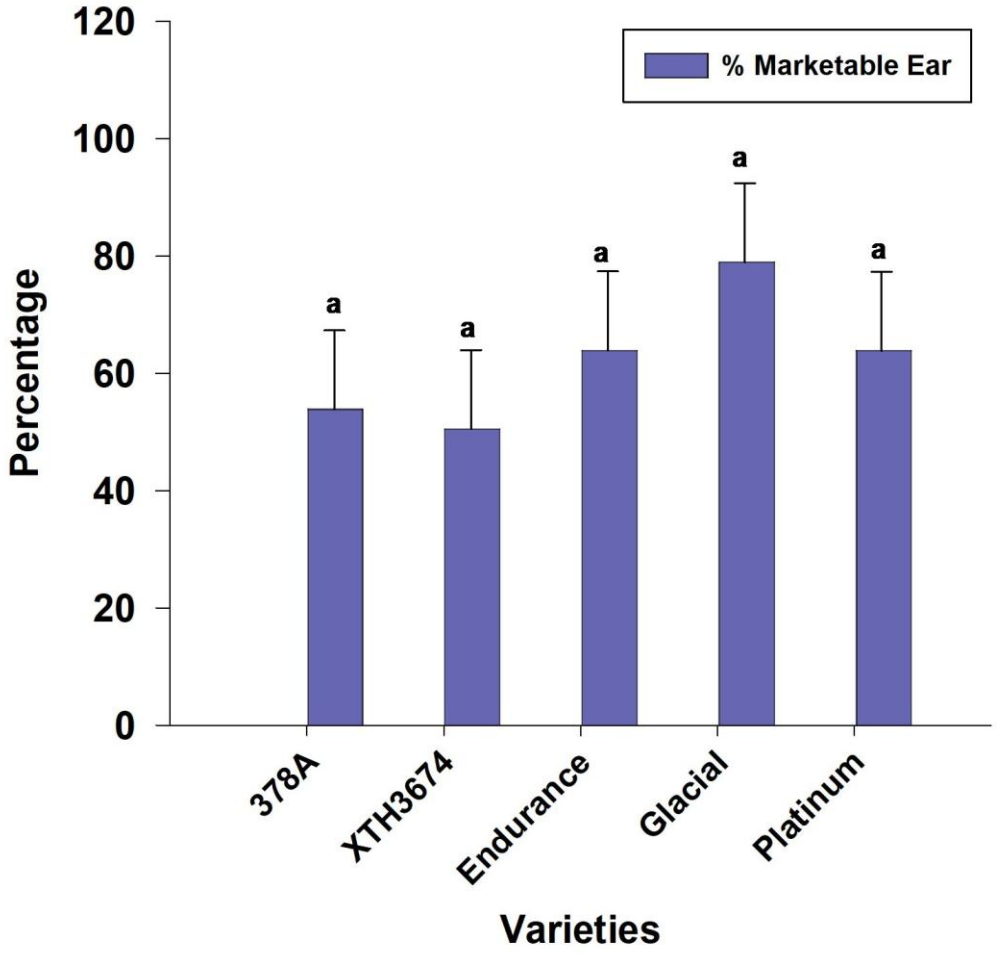
- Firmness:
  - Most tender:
    - SC1336

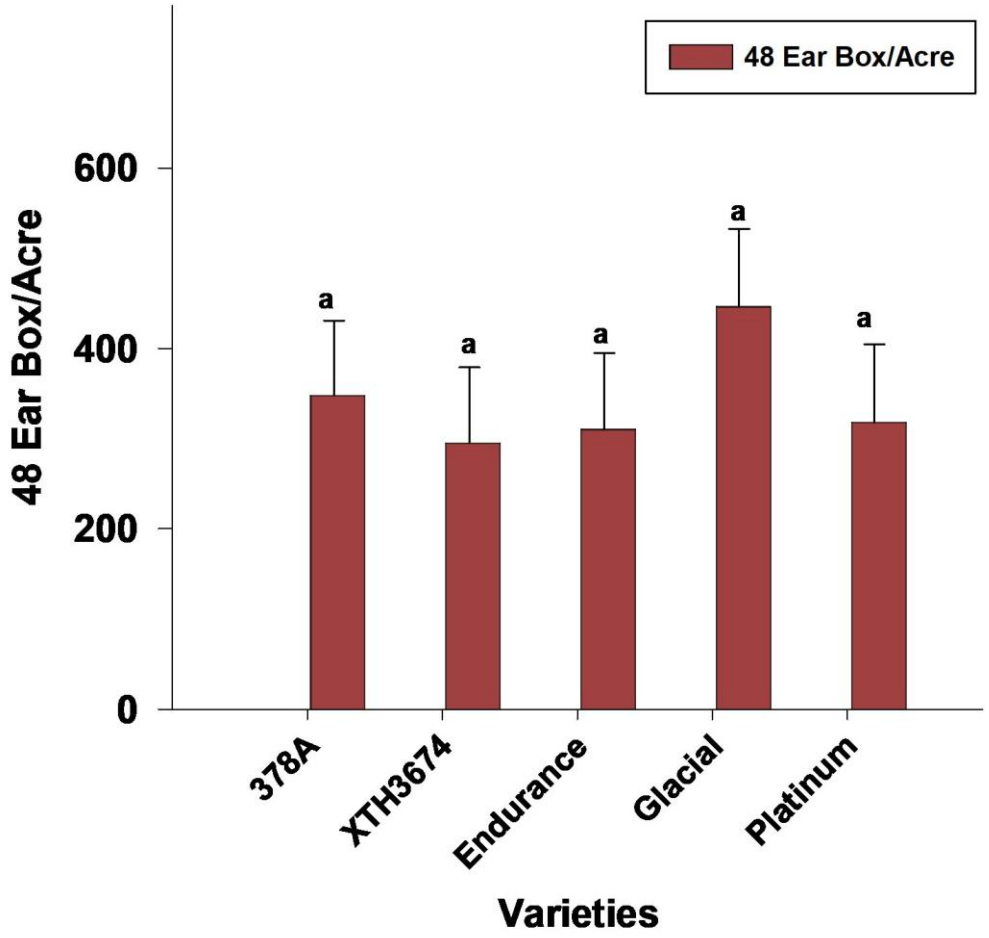
  - Higher firmness:
    - GSS1170

Trial 3: White Variety Trial Materials and Methods

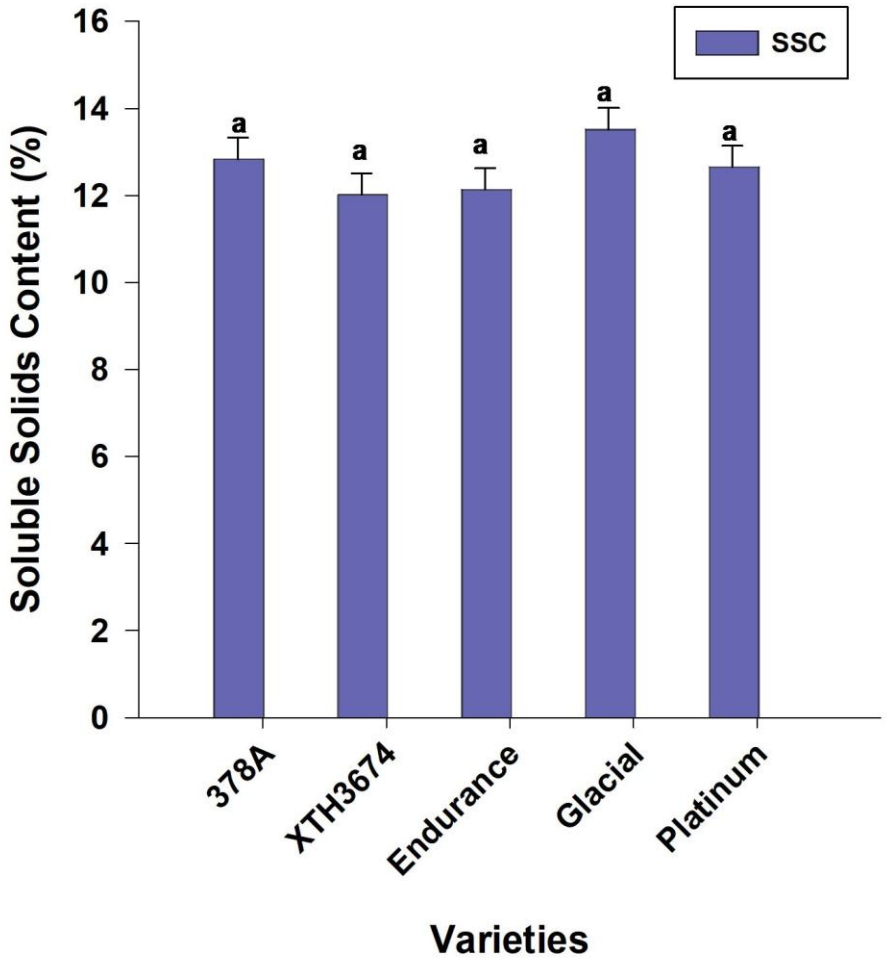
Variety	Source
378A	IFSI
XTH3674	IFSI
Endurance	IFSI
Glacial	Syngenta
Platinum	IFSI

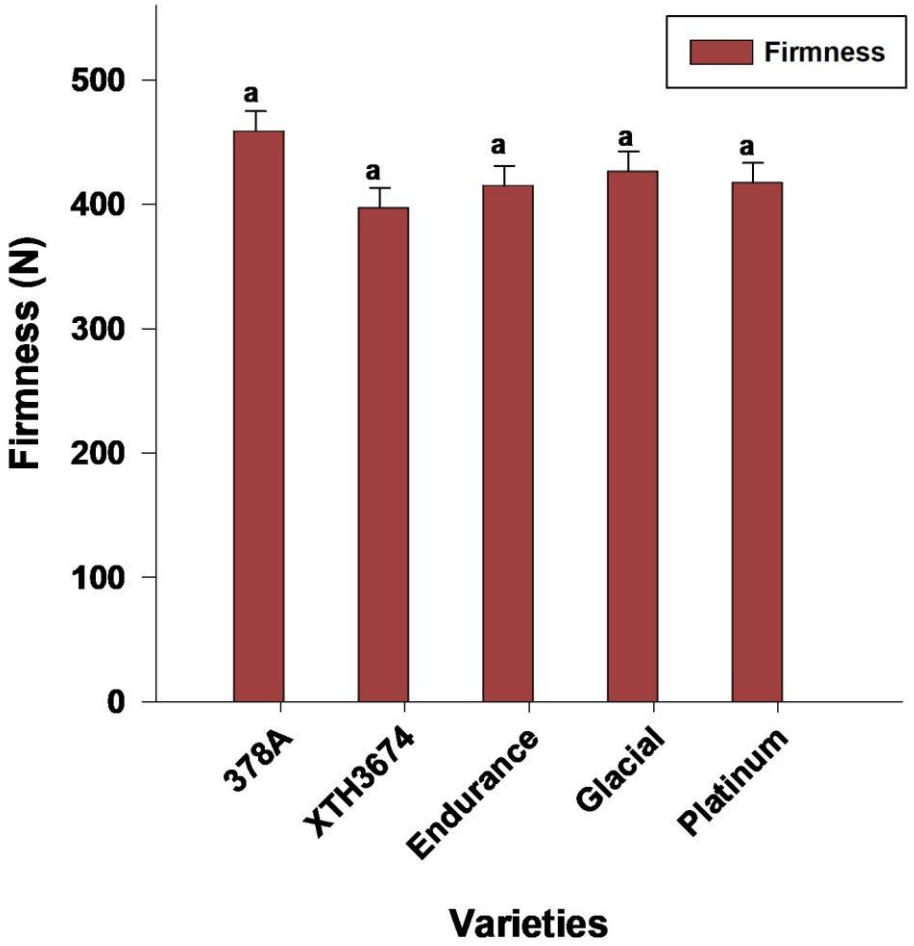
Results: White Marketability & Yield



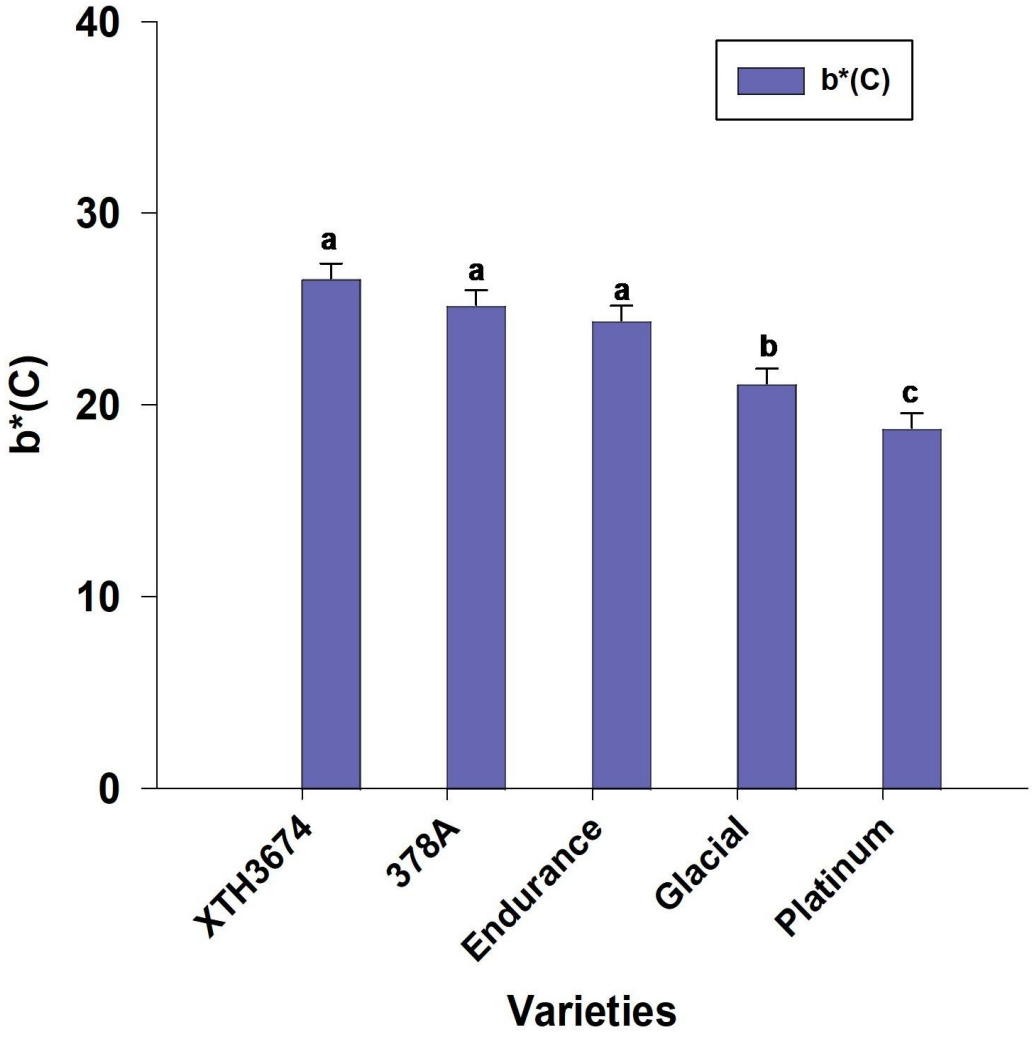


Results: White Quality Attributes





Results: White Color



Summary: White Variety Trial

- Yield, Marketability, and Good Ear Characteristics:
  - All similar

- Color:
  - Glacial
  - Platinum

Conclusions

- Bicolor:
  - Overall – Obsession, Seminole Sweet, BSS8021, and Redemption
- Yellow:
  - Overall - GSS1170
- White:
  - Overall – Platinum and Glacial (based on color)

THANK YOU

Acknowledgments

- Seed Companies
- South Georgia Vegetables Lab

Feel free to scan the barcode for connecting!