

VEGETABLE VARIETIES In Alabama



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2010 Tomato Variety Trial

Brewton Agricultural Research Unit, Brewton, AL



CULTURAL PRACTICES

- Soils were fertilized according to Auburn University Soil Testing Laboratory

<http://www.aces.edu/counties/>

- 400 pounds per acre of 5-10-15 as Ammonium Nitrate-preplant. Ten pounds N per acre per week
- Applied pesticides weekly



CULTURAL PRACTICES

- Six-week-old tomato transplants were set 1.5 ft. within row on May 1.
- Spacing was 6 feet between rows
- Harvested four times between July 14 and August 2
- Graded as extra large, large, medium

Selected Fresh Market Tomatoes

Brewton Agricultural Research Unit, Brewton, AL

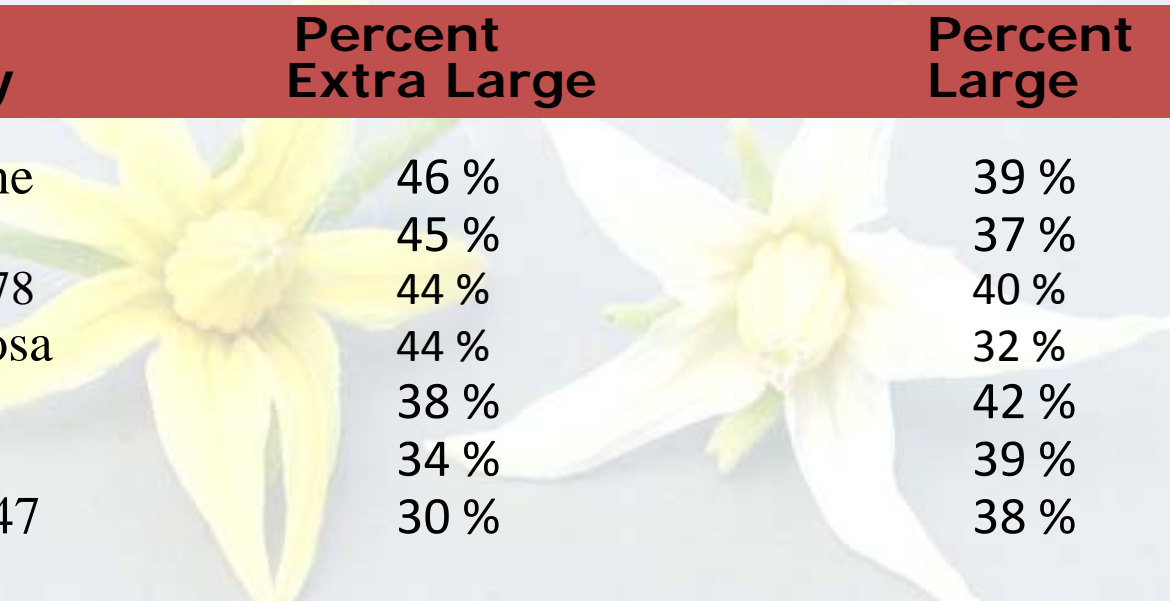
<i>Variety</i>	<i>Source</i>
Amelia	Harris Moran
Bella Rosa	Sakata
BHN 602	BHN/Sieger
BHN 640	BHN/Sieger
Crista	Harris Moran
Finishline	Syngenta/Rogers
Florida 47	Seminis
Linda	Sakata
Mountain Glory	Rogers
Redline	Rogers/Sieger
Sunkeeper	Syngenta/Rogers
Tribute	Sakata
XTM 5356	Sakata
XTM 5378	Sakata

There are new varieties on the market.

Results

<i>Variety</i>	<i>Mkt. Yield 20 lb boxes/Acre</i>
Linda	1,058
Tribute	1,057
Florida 47	1,008
XTM 5378	1,002
Finishline	993
Bella Rosa	967
Amelia	925
<i>LSD</i>	184

Percent Extra Large and Large Fruit of Selected Tomato Varieties ¹



Variety	Percent Extra Large	Percent Large
Finishline	46 %	39 %
Linda	45 %	37 %
XTM 5378	44 %	40 %
Bella Rosa	44 %	32 %
Tribute	38 %	42 %
Amelia	34 %	39 %
Florida 47	30 %	38 %

¹ Percentages are based on extra large or large fruit number /acre divided by total fruit number per acre (X 100) which includes medium and small fruit number.

al, j, ti, wf, y

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Seed Costs

Variety	Price Source	*Cost/acre
• Amelia	Sieger	\$412.50
• Bella Rosa	Sakata	\$521.42
• Finishline	Sieger	\$363.00
• Florida 47	Sieger	\$359.70
• Linda	Sakata	-
• Tribute	Sieger	\$222.50
• XTM 5378	Sakata	-

***Prices are based on a planting density of approximately 5,800 plants per acre.**

Tomato Varieties

Seed Source:
BHN/Seiger

Plant Habit:
Determinant

Days to
Harvest: 75

Time Eval: 11

Avg Yield:
1,895 boxes/acre

Percent Extra Large
Fruit: 14%



Tomato Varieties

Seed Source:
Harris Moran/Seiger

Plant Habit:
Determinant

**Days to
Harvest: 80**

Time Eval: 12

Avg Yield:
925 boxes/acre



Tomato Varieties

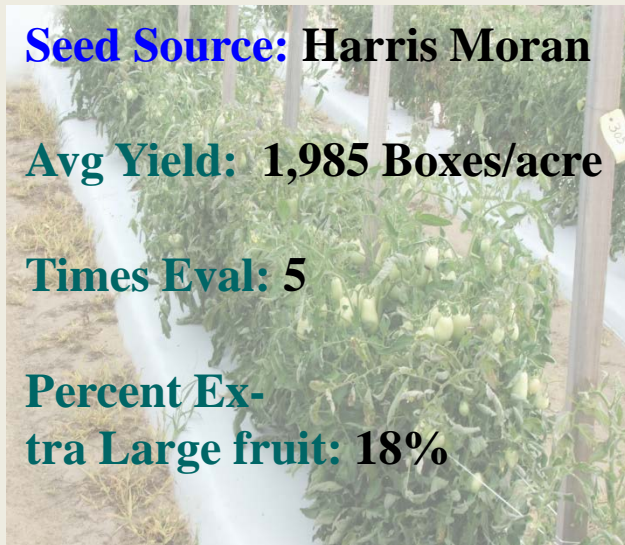


Seed Source: Harris Moran

Avg Yield: 1,985 Boxes/acre

Times Eval: 5

Percent Extra Large fruit: 18%

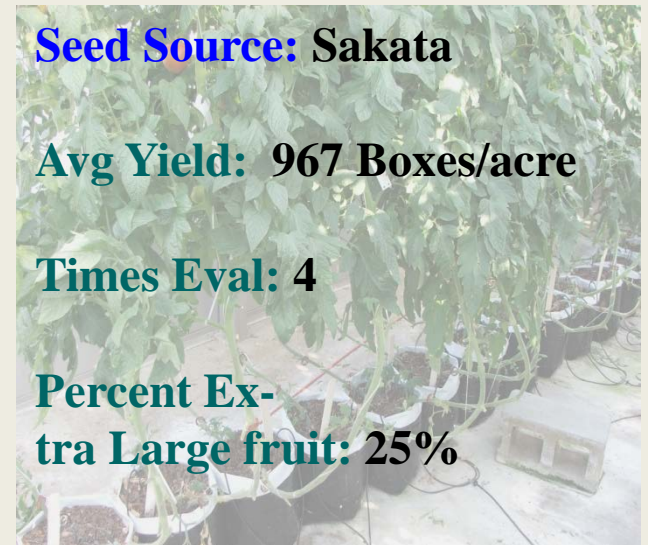


Seed Source: Sakata

Avg Yield: 967 Boxes/acre

Times Eval: 4

Percent Extra Large fruit: 25%



2010 Watermelon Variety Trial



Worldwide Rankings

- China
- Iran
- Turkey
- Brazil
- **United States**
- Mexico



Source: FAOStat (2008), Food and Agriculture Organization, United Nations except U.S. data from NASS, USDA.

National Rankings

• Florida	1 st	819,000
• California	2 nd	637,000
• Georgia	4 th	525,000
• North Carolina	7 th	103,000
• Mississippi	13 th	43,000
• Alabama	15th	20,000

Source: National Agricultural Statistics Service of USDA (Jan 2006)

Seed Sources of Selected Triploid Watermelon Varieties 2010

<i>Variety</i>	<i>Seed Source</i>	<i>Shape</i>	<i>Days to Harvest</i>
Liberty	Nunhems/Syngenta	Oblong	85
Majestic	Seminis	Oval	--
Lamar	Hollar/Seedway	Round	83
QV776	Sakata	Oblong	90
Orange Sunshine	Burpee	Oblong	85
Tri-X-313	Syngenta	Oval	85

Watermelon Trial –Cullman, AL

Soils were fertilized
according to Auburn
University Soil
Laboratory recommendations

Pre-plant application of
13-13-13- 460 lbs/acre
Weekly injections of calcium
nitrate – 40 lbs/acre



Results – North Alabama

Variety	Mkt. No. per acre	Ind. Wt. lbs
Liberty	53,546	11.5
Harmony	50,632	11.5
Majestic	50,060	11.1
Sweet Treasure	50,038	12.1
Lamar	44,103	9.6
Tri-X-313	38,378	10.01
LSD	16,307	2.00

Quality Attributes

Variety	Brix (%)	Rind Thickness (in)
Liberty	10.83	0.69
Lamar	11.83	0.79
Majestic	11.75	0.60
QV776	11.13	0.75
Orange Sunshine	10.00	0.66
Tri-X-313	11.30	0.63

Seed Sources of Selected Seeded Watermelon Varieties 2010

<i>Variety</i>	Seed Source	Shape	Days to Harvest
Anthem	Seedway	Blocky	84
Carmen	Harris	Round	83
Greystone	Hollar	Elongated	84
Gold Strike	Willhite	Blocky	80
Legacy	Willhite	Elongated	85
Matador	Seedway	Elongated	87
Pure Orange	Willhite	Oval	83
Royal Sweet	Seminis	Elongated	--
Stargazer	Siegers	Elongated	85

Seed Sources of Selected Watermelon Varieties 2010

<i>Variety</i>	Marketable Number /acre	Individual fruit Weight (lbs)
Legacy	71,177	13.5
Gold Strike	70,972	13.7
Carmen	69,680	12.9
Royal Sweet	69,309	12.3
Pure Orange	67,782	12.9
Stargazer	37,291	8.8
LSD	19,950	3.4

Quality Attributes

<i>Variety</i>	Brix (%)	Rind thickness (in)
Royal Sweet	11.38	0.66
Carmen	10.94	0.72
Legacy	10.50	0.75
Pure Orange	10.70	0.66
Gold Strike	10.18	0.69
Stargazer	11.18	0.50



LIBERTY

7 22 10



LIBERTY

7 22 10



TRIX 313

7 22 10



TRIX 313

7 22 10



QV 776

7 22 10



QV 776

7 22 10



MAJESTIC

7 22 10



MAJESTIC

7 22 10



LAMAR

7 22 10



LAMAR

7 22 10



ORANGE
SUNSHINE

7 22 10



ORANGE
SUNSHINE

7 22 10

Cantaloupe Variety Trial

North Alabama Horticulture Research Center, Cullman, AL



meta-dad.com

Seed Sources of Selected Cantaloupe Varieties 2010

<i>Variety</i>	Seed Source
Aphrodite	Seedway/Novartis
Athena	Seedway/Novartis
Atlantis	Sakata/Siegers
Carousel	Hollar
Duchess	Holmes
Earlichamp	Hollar
Goddess	Seedway

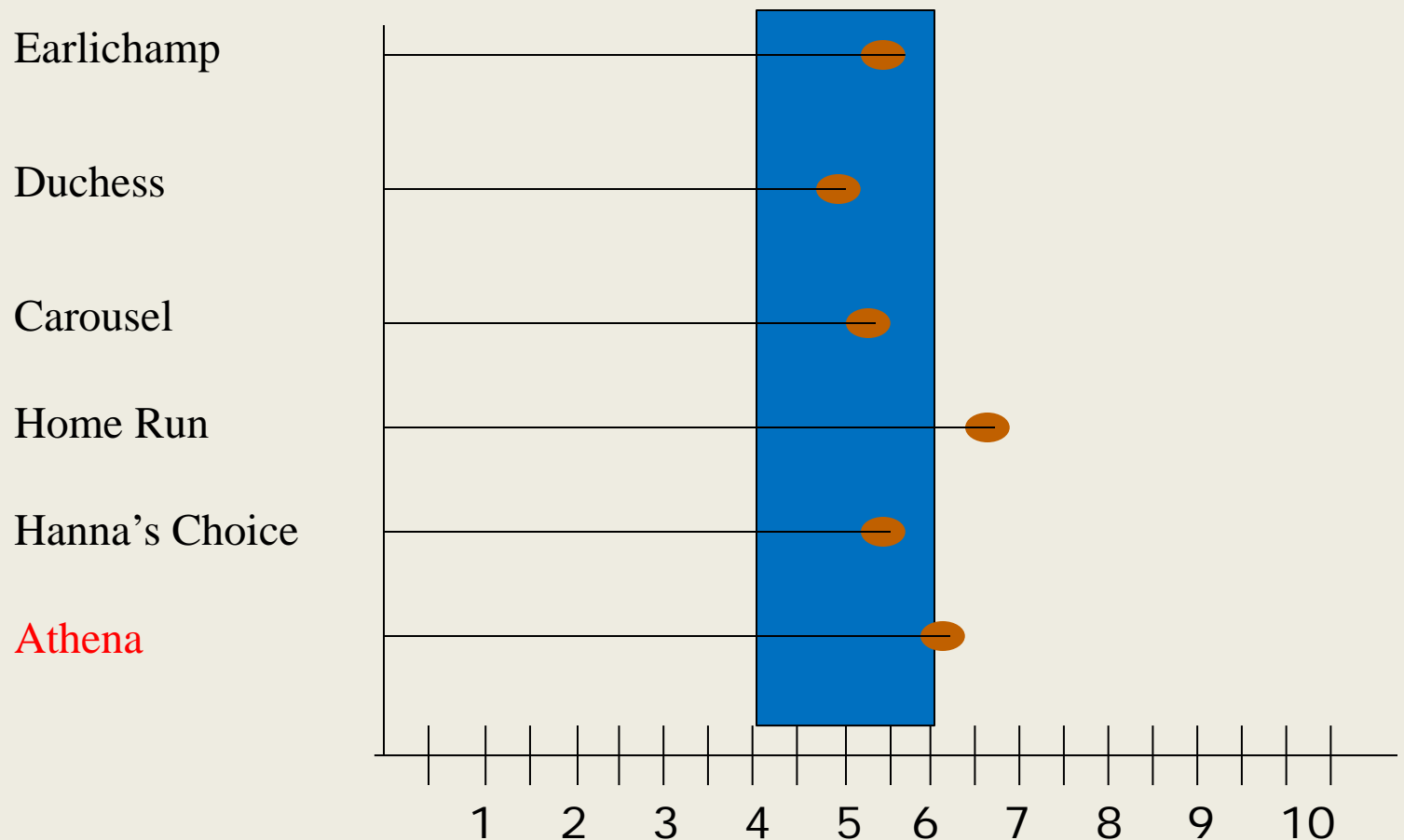
Selected Cantaloupe - Continued

<i>Variety</i>	Seed Source
Grand Slam	Holar/Siegers
Halona	Johnny's
Hanna's Choice	Johnny's
Home Run	Hollar
Orange Sherbet	Palmer
Rock Star	Hollar
Strike	Hollar

Average Fruit Size and Number of Selected Eastern Cantaloupe Varieties 2010

Variety	Fruit Number Per acre	Individual Fruit Wt. (lbs)
Earlichamp	77,530	5.6
Home Run	68,868	6.8
Goddess	65,156	6.9
Duchess	63,015	5.0
Halona	62,709	7.7
Athena	48,172	6.5
LSD	11,383	

Average Fruit Size Range of Selected Eastern Cantaloupe Varieties 2010



Quality Attributes

<i>Variety</i>	Brix Size	Cavity (sq.in.)
Earlichamp	12.63	11.68
Duchess	12.59	11.80
Carousel	12.10	10.67
Home Run	10.28	13.66
Hanna's Choice	10.97	15.00
Athena	12.05	13.16

Seed Source and Descriptions of Selected Cantaloupe Varieties

<i>Variety</i>	<i>Flesh Color</i>	<i>Days to Harvest</i>	<i>Disease Res/Tol.</i>
Earlichamp	O	78	^{ac} FW, PM
Duchess	O	75	PM
Carousel	O	83	^{abc} FW, ^{abc} PM
Home Run	O	82	^{abc} FW, PM
Hanna's Choice	O	73	FW,PM
Athena	O	80	^{abc} FW, ^{bc} PM

^aRace 0, ^bRace 1, ^c Race 2 , ^dRace 3

Variety Selection

- Most important decisions a grower makes
- Start on a small scale
- Use varieties that are adapted to your region
 - Attend field days (Experiment station or Seed company)
 - Vegetable Meetings
 - Variety Trial Bulletins
- Use Resistant/Tolerant varieties

Variety Selection

- Yield – Should have potential to produce as much or more fruit as the current variety you are using
- Be sure to consider all of the factors
 - varieties should have qualities that are accepted by the buyer (size, shape, color, flavor)

Seed Sources and Contacts

Sakata Seed America

Contact: Steven VanDerMeid
Cell: (229)460-0056
Office/Fax: (229)588-4015
Email: SVanDerMeid@sakata.com

Syngenta Seeds, Inc.

ROGERS® Brand Vegetable Seeds

Contact: Butch Brady
600 North Armstrong Place (83704)
P.O. Box 4188
Boise, ID 83711-4188
Tel 208-322-7272
Fax 208-378-6625

Harris Moran

Contact: Bob Conrad
Tel: 239-370-5893
Cell: 239-543-7300
Email: b.conrad@hmclause.com

Johnny's Selected Seeds

955 Benton Avenue
Winslow, Maine
04901
1-877-Johnnys (1-877-564-6697)
Website: www.johnnyseeds.com

Hollar Seeds

Contact: Michael Everson
Phone: 229-319-9674
meverson@seedway.com

Seed Sources and Contacts

Nunhems Seeds

1200 Anderson Corner Rd.
Parma, ID 83660
Tel: 800-733-9505

Seminis Seeds

Contact: Jack Stuckey
Kelly Seed Company
P.O. Box 320
Hartford, AL 36344
Tel: 800-654-0726

Contact: Van Lindsey
Seminis Vegetable Seeds
556 Armour Rd.
Tifton, GA, USA 31761
Tel: 229-382-1815

Harris Seeds

355 Paul Road
P.O. Box 24966
Rochester, NY 14624-0966
Tel: 800 544-7938

Sieger Seeds

13031 Reflections Dr.
Holland, MI 49424
Contact: Darren Deal
Cell: 229-224-8639
Email: darren_deal@siegers.com

Seedway

Contact: Michael Everson
Phone: 229-319-9674
meverson@seedway.com

Special Thanks

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Questions