



2000 FRESH MARKET HOT PEPPER EVALUATION

Brad R. Bergefurd, Extension Agent, Horticulture
 Thom C. Harker, Research Assistant, Horticulture
 Ohio State University Extension Enterprise Center
 1864 Shyville Road, Piketon, Ohio 45661-9749
 Phone: (740) 289-3727

This Fresh Market Hot Pepper trial compared 7 cultivars using 4 replicates of each cultivar. Objectives were to evaluate potential fresh market cultivars for total yield, grade and quality attributes and for their overall suitability in southern Ohio growing seasons.

Methods:

Planting: Seeded April 14, 2000 into 98-cell Pro-Trays using a peat vermiculite soilless mix. Cells were thinned as needed to 1 plant /cell. Plants were transplanted to the field on June 1, 2000 at Hillsboro, Ohio using a Water Wheel Planter.

Spacing: Rows were 5 feet apart, with each plant set into raised beds at a n 18" spacing between plants. The beds were covered with black plastic mulch with trickle irrigation under the mulch prior to planting.

Soil Type: Haubstadt Silt Loam

Fertilizer: Applied 120 lbs. N., 120 lbs. P2O5 and 120 lbs. K2O per acre prior to planting according to soil test recommendations. 20-20-20 (1 lb. / 100 gal. 8 oz. per plant) with transplant water.

Weed Control: 2 pt/A Treflan 4 E pre-plant incorporated. Hand hoed and cultivated as necessary.

Pest Management: None

Irrigation: 6/2, 6/8, 6/22, 7/6, 7/13, 7/26, 8/13, 8/17 and 9/1

Harvest: July 27, August 18 and September 28

Results:

Total marketable yields for the replicated cultivars ranged from 23.37 tons per acre (Mesilla) to 15.02 tons per acre (Summer Heat 5000). The long-range goal is to utilize the existing agriculture infrastructure of southern Ohio to introduce these Fresh Market hot pepper varieties as an alternative crop for Ohio producers.

Table 1. Early Yields From Replicated Hot Pepper Cultivar Evaluation Trial:

Ohio State University Extension Enterprise Center, Hillsboro, Ohio 2000

	Seed	Marketable	Marketable
Cultivar	Source	Ton/A	5/9 Bushel Box/A
Jaladuro (Jalapeno)	SI	2.57	205.91

Vrt # 7 (Jalapeno)	RP	1.86	149.09
ACX 400 (Hot Banana)	AC	1.78	143.18
Summer Heat 6000 (Jalapeno)	AC	1.26	100.91
Serrano Del Sol (Serrano)	PS	1.03	83.18
Summer Heat 5000 (Jalapeno)	AC	0.77	61.82
Mesilla (Cayenne)	PS	0.70	55.91
LSD		0.76	60.82

Table 2. Total Harvest Yields From Replicated Hot Pepper Cultivar Evaluation Trial:

Ohio State University Extension Enterprise Center, Hillsboro, Ohio 2000

	Marketable	Marketable	Average
Cultivar	Ton/A	5/9 Bushel Box/A	Fruit Weight
Mesilla (Cayenne)	23.37	1869.90	0.10
VRT #7 (Jalapeno)	21.06	1685.10	0.08
Jaladuro (Jalapeno)	21.00	1680.90	0.11
Serrano Del Sol (Serrano)	19.01	1521.20	0.07
Summer Heat 6000	16.64	1330.90	0.06
ACX 400	16.61	1329.20	0.05
Summer Heat 5000	15.02	1201.80	0.48
LSD	4.82	385.49	0.05

Abbreviations	Seed Company	Address
AC	Abbott and Cobb Inc.	1311 Butterfield Road, Suite 310, Downers Grove, IL 60515
PS	Petoseed Co. Inc.	P.O. Box 4206, Saticoy, CA 93004
SI	Siegers Seed Co.	8265 Felch St., Zeeland, MI 49464-9503
RP	Rupp Seeds Inc.	17919-Co. Rd. B, Wauseon, OH 43567