

**EVALUATION OF BELL PEPPER CULTIVAR
FOR SOUTHERN OHIO, 2006**

*Brad R. Bergefurd, Thomas Harker, Dr. Shawn Wright
The Ohio State University South Centers
1864 Shyville Road, Piketon, Ohio 45661-9749
Phone: (740) 289-3727

This cultivar trial evaluated 10 cultivars for their suitability in southern Ohio.

METHODS:

Seeds were planted April 13th in the greenhouse. Plants were transplanted to raised beds covered with black plastic on May 25th using a waterwheel transplanter. There was trickle irrigation under the plastic. Plots rows were 6 foot apart. Experimental design was randomized complete block with 3 replications. 100 units of N, P and K were applied before forming beds and laying plastic mulch. A standard commercial fungicide and insecticide program was followed, following OSU Bulletin #672.

RESULTS:

There was no significant difference in the number of small or medium pepper boxes/acre or total number of peppers per acre. Total number of peppers per acre ranged from 47857 to 67976. There was a highly significant difference in number of boxes of large and jumbo peppers per acre, and a significant difference in total boxes per acre (Table 1).

Table 1. Boxes per Acre

Treatment	Average Boxes per Acre		
	Large	Jumbo	Total
Justina	C B 156	C B 14	C B A 753
Pladin	B A 212	C B 25	C B A 751
Lafayette	C B A 169	C B 34	D C B 632
Electra	A 238	B 44	A 827
Revolution	A 241	A 99	B A 775
8398	D 13	C 0	D 562
Alliance	B A 221	C B 29	D C B 657
9943084	C 112	C B 20	D C 604
Rebecca	C B A 178	C 5	D C B 646
LSD *	81	36	162
* Means with the same letter are not significantly different			

There was no statistically significant difference in pounds of small or medium peppers per acre. Average number of pounds of smalls ranged from 1692 to 4103 pounds per acre. Average number of pounds of mediums ranged from 9678 to 14002 pounds per acre. There was a highly significant difference in pounds of large and jumbo peppers per acre, and a significant difference in total pounds per acre (Table 2).

Table 2. Average Pounds per Acre

Treatment	Average Pounds per Acre		
	Large	Jumbo	Total
Justina	C B A 4381	C B 395	C B A 21106
Pladin	B A 5948	C B 715	C B A 21045
Lafayette	C B A 4754	C B 953	D C B 17703
Electra	A 6671	B 1235	A 23157
Revolution	A 6747	A 2785	B A 21716
8398	D 369	C 0	D 15739
Alliance	B A 6203	C B 835	D C B 18410
9943084	C B A 3152	C B 563	D C 16917
Rebecca	C B A 4990	C 146	D C B 18091
LSD *	2269	1015	4535
* Means with the same letter are not significantly different			

The only significant difference for average weight was for variety 8398.

t-tests (LSD) for average weight (Least Significant Difference = 0.04*)

t Grouping	Mean	TRTMT
A	0.39	Revolution
A	0.38	Rebecca, Pladin, Alliance
A	0.36	Lafayette, 9943084, Justina
A	0.35	Electra
B	0.24	8398

*Means with the same letter are not significantly different.