

EVALUATION OF SUMMER SQUASH CULTIVARS FOR SOUTHERN OHIO, 2006

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

METHODS:

Seeds were planted May 24th, on raised beds (double rows 12" apart, 18" in row) covered with black plastic mulch with trickle irrigation under the plastic. Plots rows were 5 feet apart. Experimental design was randomized complete block with 4 replications. The field is located in southern Ohio, at the Ohio State University South Centers research and demonstration plots. 100 units of N were applied prior to laying the plastic mulch. A standard commercial fungicide and insecticide program following OSU Bulletin #672, The Vegetable Production Guide, was followed, on a 7-10 day schedule. Harvest began on July 3rd and final harvest was August 2nd.

RESULTS:

There was a significant effect of treatment on small, medium, large, and total pounds per acre (Table 1).

Table 1. Pounds/Acre

Variety	Small	Medium	Large	Total
Sunray	C B A 1089	D 7081	E D 9788	E D C 27760
XPHT 1832 III	B A 11109	D C 8362	E 8529	E D C 28001
RSQ 2054	E D 6452	C B A 10629	D C B 13517	E D C B 30600
RSQ 2193	D C B 8120	D C 8220	E 9216	E D 25557
Justice III	E D C 7894	A 13234	C B A 15004	B A 36133
Cashflow	E D 7264	D C B 9910	B A 16297	C B A 33472
Leopard	D C B A 9421	D C B 9438	A 18009	A 36868
Magnum	E 4925	D 7429	E D C B 12270	E 24625
Fortune	A 11613	D C 8514	E D C 11490	D C B A 31617
Spineless Beauty	D C B A 8734	B A 9401	D C B 13666	B A 34152
Least Significant Difference*	3133	3160	4247	6117

*Means with the same letter are not significantly different.

There was a statistically significant effect of treatment on small, medium, large, and total boxes/acre (Table 2).

Table 2. Boxes/Acre

Variety	Small	Medium	Large	Total
Sunray	C B A 259	D 168	E D 233	E D C 661
XPHT 1832 III	B A 264	D C 199	E 203	E D C 666
RSQ 2054	E D 153	C B A 253	D C B 321	E D C B 728
RSQ 2193	D C B 193	D C 195	E 219	E D 608
Justice III	E D C 188	A 315	C B A 357	B A 860
Cashflow	E D 173	D C B 236	B A 388	C B A 797
Leopard	D C B A 224	D C B 224	A 428	A 877
Magnum	E 117	D 177	E D C B 292	E 586
Fortune	A 276	D C 202	E D C 273	D C B A 752
Spineless Beauty	D C B A 208	B A 279	D C B 325	B A 813
Least Significant Difference*	74	75	101	145

*Means with the same letter are not significantly different.

There is a highly significant effect of variety on average weight (Table 3).

Table 3. Average weight* (Least Significant Difference = 0.10)

t-Grouping	Mean	TRTMT
A	0.84	Leopard
B A	0.74	RSQ 2054
B	0.72	Cashflow
B C	0.71	Magnum and Spineless Beauty
B C D	0.67	Justice III
C D	0.62	RSQ 2193
D	0.59	Sunray
D	0.58	Fortune
D	0.57	XPHT 1832 III

*Means with the same letter are not significantly different.