

**EVALUATION OF SUMMER SQUASH CULTIVARS
FOR SOUTHERN OHIO, 2004**

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 18 cultivars for their suitability in southern Ohio.

METHODS:

Seeds were planted May 17th 2004, then replanted on June 3rd after the field was damaged by hail 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 foot apart. Experimental design was randomized complete block with 3 replications. The field is located in southwestern Ohio, Greene County 83° 44' West, 39° 39' North. 50 units of N was applied through drip irrigation over the growing season. Roundup (glyphosate) applied between the rows with a shielded sprayer was used to control weeds. A standard commercial fungicide and insecticide program was followed, on a 7-10 day schedule. Harvest began on July 8th and final harvest was August 6th, 2004.

RESULTS:

Plant health and fruit remained good through the season with average fruit set and yield across cultivars. Early total marketable yield ranged from 1070-2826 ½ -bushel cartons/acre. Sitos, SSX 6617 and Sensor were the top three performers early season. Total season marketable yield ranged from 2868-6021 ½ -bushel cartons/acre. Cash flow, SSX 6617 and Sitos were the top three performers for the season as a whole.

2004 Early Squash Yields:

<u>Cultivar</u>	<u>Seed Source</u>	<u>1/2 Bushel Boxes per Acre</u>			
		<u>Small</u>	<u>Medium</u>	<u>Large</u>	<u>Total</u>
Sitos	SS	351	728	1748	2826
SSX 6617	SUTTER	596	765	1270	2632
Sensor	SS	527	826	1268	2621
Cash Flow	RG	605	1162	813	2579
SSX 6563	SUTTER	467	894	1100	2462
Monitor	SS	611	944	779	2334
Fortune	RG	655	742	828	2225
NUN 0009	SS	516	1071	535	2123
Gladiator	SS	587	1009	395	1992
SSX 6749	SUTTER	434	610	682	1726
SSX 6609	SUTTER	373	596	742	1711
Cougar	AC	648	434	594	1676
SSX 6626	SUTTER	343	610	701	1654

1/2 Bushel Boxes per Acre

<u>Cultivar</u>	<u>Seed Source</u>	<u>Small</u>	<u>Medium</u>	<u>Large</u>	<u>Total</u>
Precious II	HM	473	600	565	1639
Dividend	RG	169	834	367	1371
Revenue	RG	309	711	282	1302
SSX 6679	SUTTER	208	320	572	1100
Bud's Choice	SE	301	442	327	1070

2004 Total Squash Yields:

1/2 Bushel Boxes per Acre

<u>Cultivar</u>	<u>Small</u>	<u>Medium</u>	<u>Large</u>	<u>Total</u>	<u>Type</u>
Cash Flow	1349	2378	2294	6021	Green
SSX 6617	1713	1532	2684	5928	Green
Sitos	975	1610	3118	5703	Green
Sensor	1033	1853	2640	5526	Green
Monitor	1278	2231	1975	5485	Green
Fortune	1845	1771	1808	5425	Yellow
SSX 6563	1105	2095	2219	5420	Green
Gladiator	1748	2434	1122	5304	Green
Precious II	1308	1734	2075	5117	Yellow
NUN 0009	1391	2342	1213	4946	Green
SSX 6749	1121	1886	1670	4677	Green
Cougar	1691	1584	1335	4610	Yellow
SSX 6609	947	1497	1996	4440	Green
Dividend	726	1849	1566	4141	Green
SSX 6626	961	1590	1535	4086	Green
Revenue	1069	1723	1028	3820	Green
Bud's Choice	838	1016	1586	3440	Yellow
SSX 6679	575	1041	1251	2868	Green