

2012 Green Pepper Cultivar Evaluation

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In Cooperation with Wiers Farms Inc., Willard, OH

Summary of Results:

Nine varieties were transplanted on May 23, 2012 at a grower's location in Celeryville, OH. The experiment was conducted as a randomized complete block design with 4 replications. Plots were double rows, 25 feet long. Eight plants from the middle were harvested to determine yield and quality.

The harvest dates were: 14 Aug, 30 Aug, 13 Sep, and 4 Oct 2012.

The top performing varieties (boxes per acre of extra large + large fruit) for total harvest, were Karisma, Archimedes, Vanguard, Aristotle and PX 0994-1819. Karisma and Archimedes were significantly better in yield than Enza and Bayonet (see Table 1). Varieties producing in excess of 400 bushel/A of extra large + large fruit were Karisma and Archimedes. These two varieties were significantly higher in yield than HMX 1649, Cutlas, Enza and Bayonet (see table 1).

Table 2 shows the percentage of marketable fruit in the large size categories compared to all marketable fruit (**% marketable large**, represents the number of extra large and large fruit compared to all fruit harvested) for all harvests. **Percent marketable** represents every size category that can be sold from extra large down to the small category. Archimedes and Karisma were the only varieties with 40% or more of its fruit in the larger size categories. This was down by 10 percentage points compared to 2011. In 2011, Vanguard had 50% of its fruit in the large size categories compared to 30% this year. For % marketable, Archimedes and HMX 1649 produced significantly more marketable fruit than Vanguard.

2012 Green Pepper Results

Table 1. Total Yield in all size categories in bushels or boxes/acre.

ID #	Variety	Xtra Large ¹	Large	XL+L & (Rank) ²	Medium	Small	Select	Total	Source
5	Karisma	174	288	462	252	157	19	891	HM
3	Archimedes	131	328	459	232	191	36	919	SM
6	Vanguard	115	271	386	298	167	18	869	HM
2	Aristotle	83	278	361	269	184	72	887	SM
1	PS 0994-1819	95	251	346	235	152	67	801	SM
7	HMX 1649	51	238	289	330	167	7	870	HM
8	Cutlass	79	181	260	312	218	56	846	SY
4	Enza 20B.20854	27	151	179	330	196	43	747	EZ
9	Bayonet	20	147	167	389	184	53	794	SY
	LSD 0.05%	84	117	165	119	84	58	282	

1. The extra large category includes Jumbo and extra large fruit sizes.

2. (Rank) = highest yield to lowest of extra large plus large boxes per acre.

Table 2. Percent Marketable Large and Percent Marketable Yield (Extra Large + Large + Medium + Small + Select)

ID #	Variety	% Marketable Large ¹	ID #	Variety	% Marketable ²
3	Archimedes	40 a ³	3	Archimedes	90 a
5	Karisma	39 ab	7	HMX 1649	90 a
1	PS 0994-1819	33 abc	5	Karisma	84 ab
2	Aristotle	31 bc	1	PS 0994-1819	82ab
6	Vanguard	30 bc	2	Aristotle	82 ab
7	HMX 1649	25 cd	8	Cutlass	82 ab

8	Cutlass	21 de		4	ENZA	81 ab
4	Enza20B.20854	17 de		9	Bayonet	80 ab
9	Bayonet	15 e		6	Vangard	79 b
	LSD 0.05%	9				11

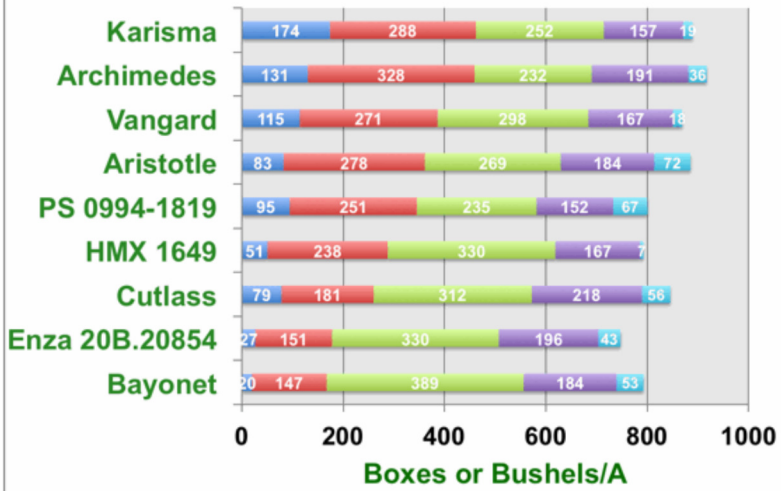
1. % **Marketable Large** = the number of Extra Large + Large fruit divided by the number of Extra Large + Large + Medium + Small + Select + Cull fruit times 100.
2. % **Marketable** = the number of Extra Large + Large + Medium + Small fruit divided by the number of Extra Large + Large + Medium + Small + Select + Cull fruit times 100.
3. Means followed by the same letter are not significantly different.

Following the charts are the 9 green pepper varieties in the trial. Use the ruler for a size reference



Total Yield in all Fruit size categories: boxes/A

■ Extra Large ■ Large ■ Medium ■ Small ■ Select







Bayonet

PS 0994-1819

Aristotle

Archimedes

E 20B.20854



Karisma

Vangard

HMX 1649

Cutlass

Bayonet

PS 0944-1819

Aristotle

Archimedes

E 20B.20854



Karisma

Vangard

HMX1649

Cutlass

Bayonet