

2008 Green Pepper Cultivar Evaluation



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Table 1. List of Varieties

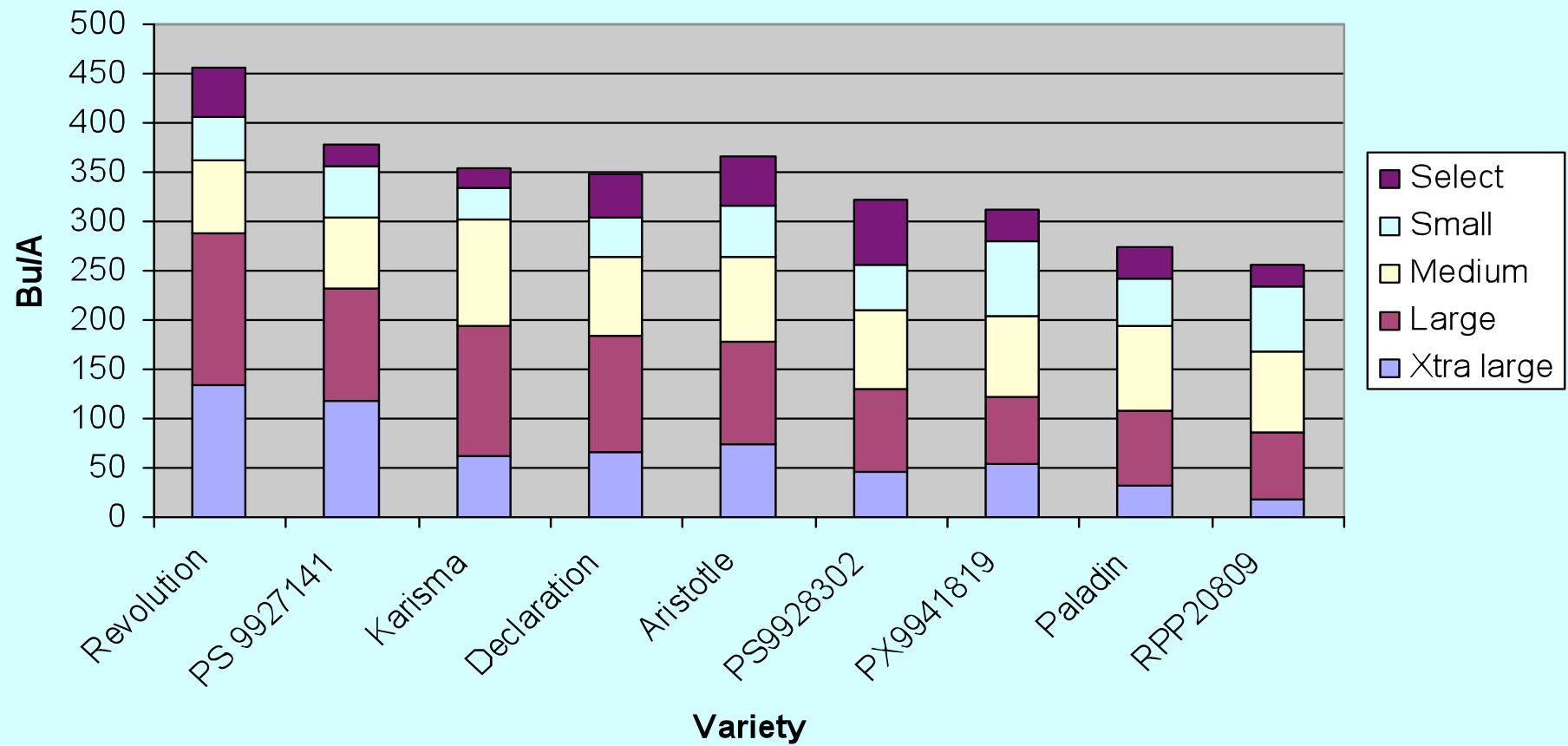
ID #	Cultivar	Source
1	RPP 20809	Syngenta
2	Karisma HMX 6646	Harris Moran
3	Revolution	Harris-Moran
4	Declaration HMX 7648	Harris Moran
5	PX 09941819	Seminis
6	PS 992 7141	Seminis
7	Aristotle	Seminis
8	PS 992 8302	Seminis
9	Paladin	Seminis

Randomized complete block design with 4 replications

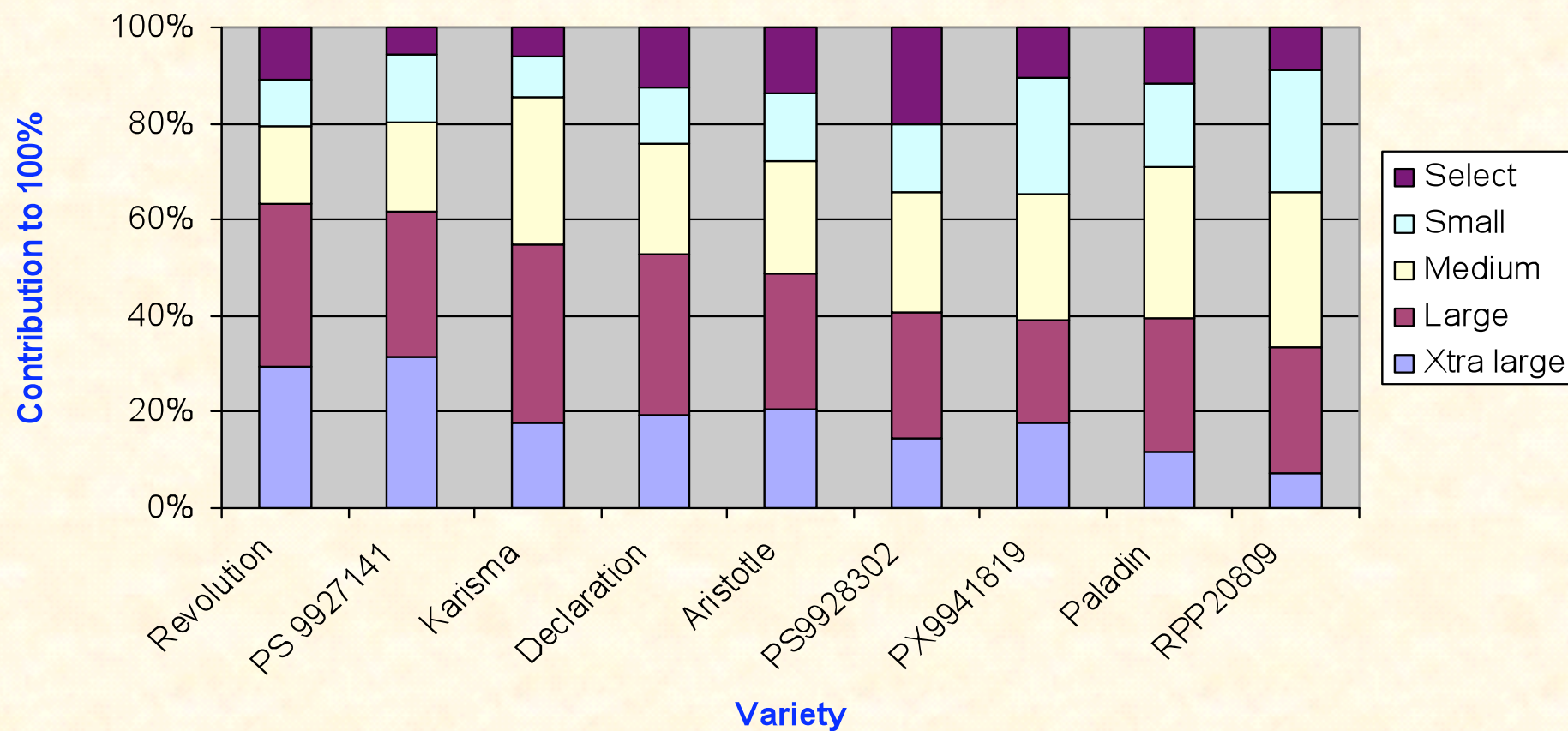
Table 1. Yield of extra large¹, large and extra large plus large fruit, (First Harvest)

Id#	First Harvest	Extra Large	Large	ID#	Extra Large + Large	
	Cultivar	Boxes/A	Boxes/A		Cultivar	Boxes/A
3	Revolution	135	154	3	Revolution	288
6	PS 992 7141	119	113	6	PS 992 7141	233
7	Aristotle	75	104	2	Karisma	194
4	Declaration	67	117	4	Declaration	185
2	Karisma	63	130	7	Aristotle	179
5	PX09941819	55	67	8	PS 992 8302	131
8	PS 992 8302	47	84	5	PX09941819	122
9	Paladin	32	77	9	Paladin	108
1	RPP 2089	19	67	1	RPP 2089	88
	LSD 0.05	47	62			76

First Harvest



First Harvest: % Marketable by Fruit Size category



Revolution





PS 992 7141

Karisma



Declaration



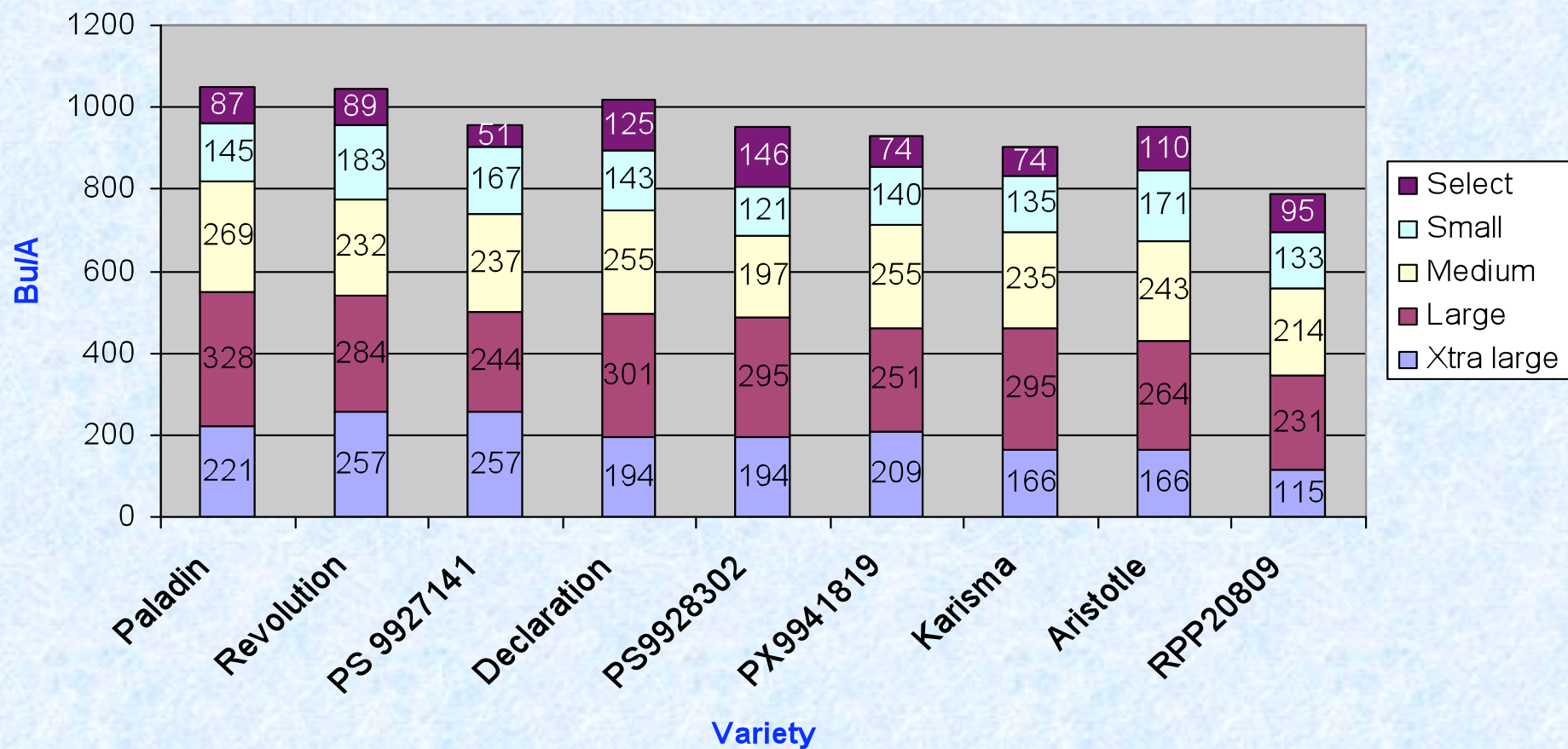
**Table 2. Yield of extra large¹, large and extra large plus large fruit,
(Total Harvest: 3 harvests)**

Id		Extra Large	Large	ID#	Extra Large + Large	
	Cultivar	Boxes/A	Boxes/ A		Cultivar	Boxes/A
3	Revolution	258	284	9	Paladin	550
6	PS9927141	257	244	3	Revolution	542
9	Paladin	222	328	6	PS9927141	502
5	PX9941819	210	251	4	Declaration	496
4	Declaration	195	302	8	PS9928302	489
8	PS9928302	194	294	5	PX9941819	461
7	Aristotle	166	265	2	Karisma	461
2	Karisma	166	295	7	Aristotle	431
1	RPP 20809	115	231	1	RPP 20809	364
	LSD 0.05	104	93			154

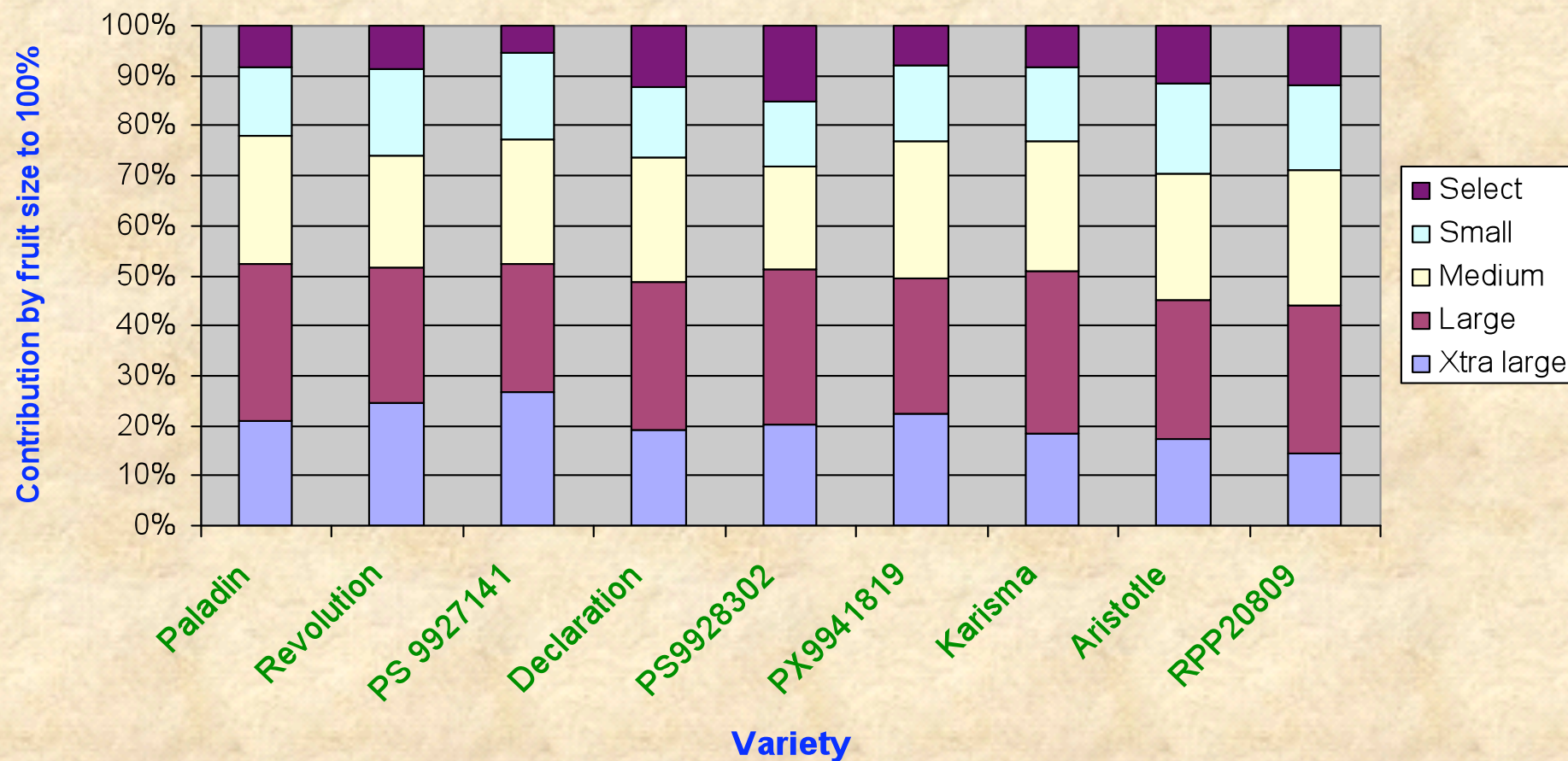
Table 3. Comparison of Yield of extra large plus large fruit, (Total yield 2006 and 2008)

ID#	Extra Large + Large		
	Cultivar	2008 Boxes/A	<u>2006</u> Boxes/A
9	Paladin	550	467
3	Revolution	542	
6	PS9927141	502	598
4	Declaration	496	
8	PS9928302	489	403
5	PX9941819	461	
2	Karisma	461	
7	Aristotle	431	
1	RPP 20809	364	
		154	

Total Harvest by size category



Total harvest: % Marketable by fruit size category



Does not include the cull category as % of total

Paladin



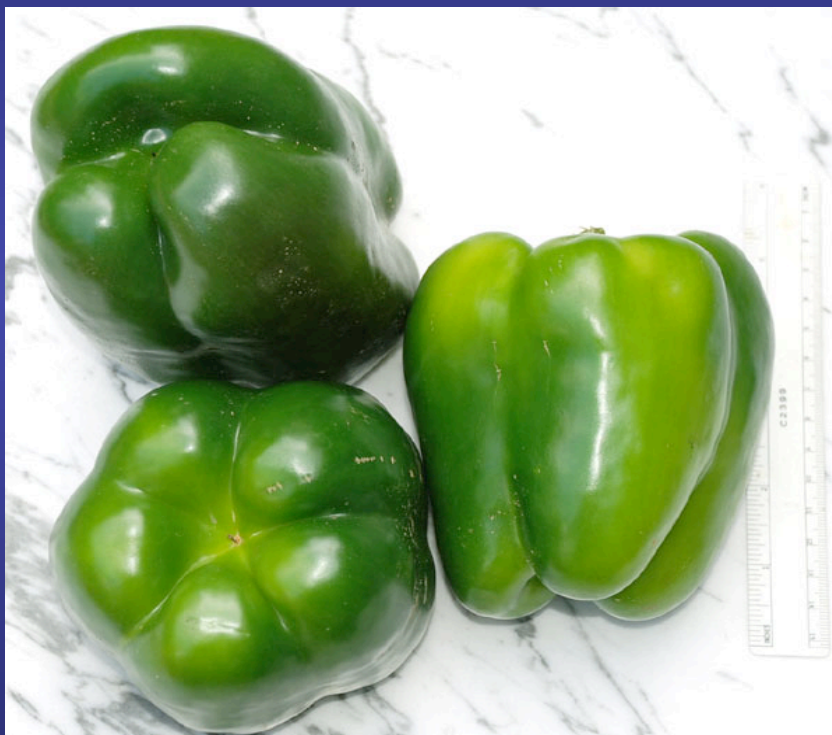
PS 992 8302



PX 09941819



Aristotle



RPP 20809



Declaration

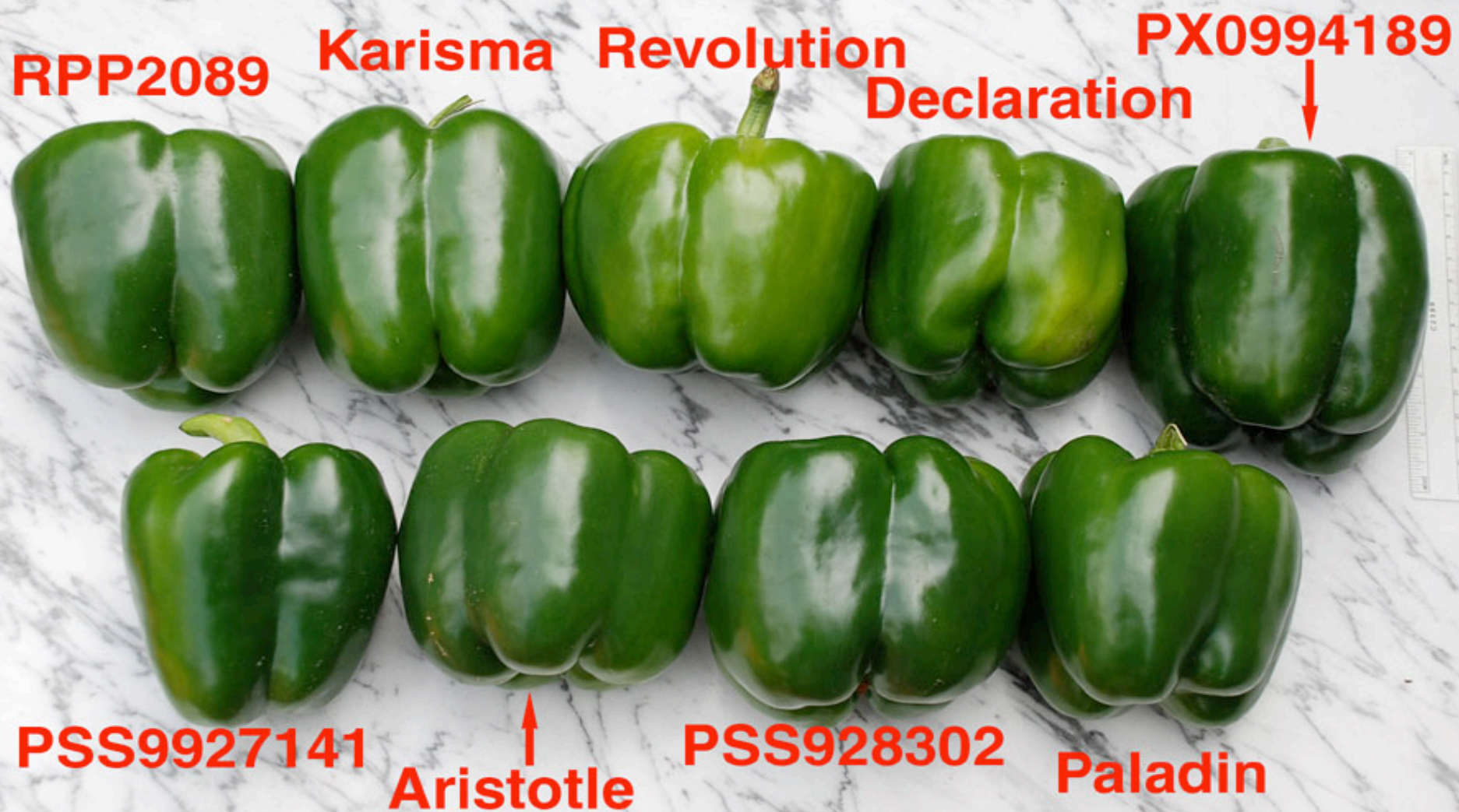


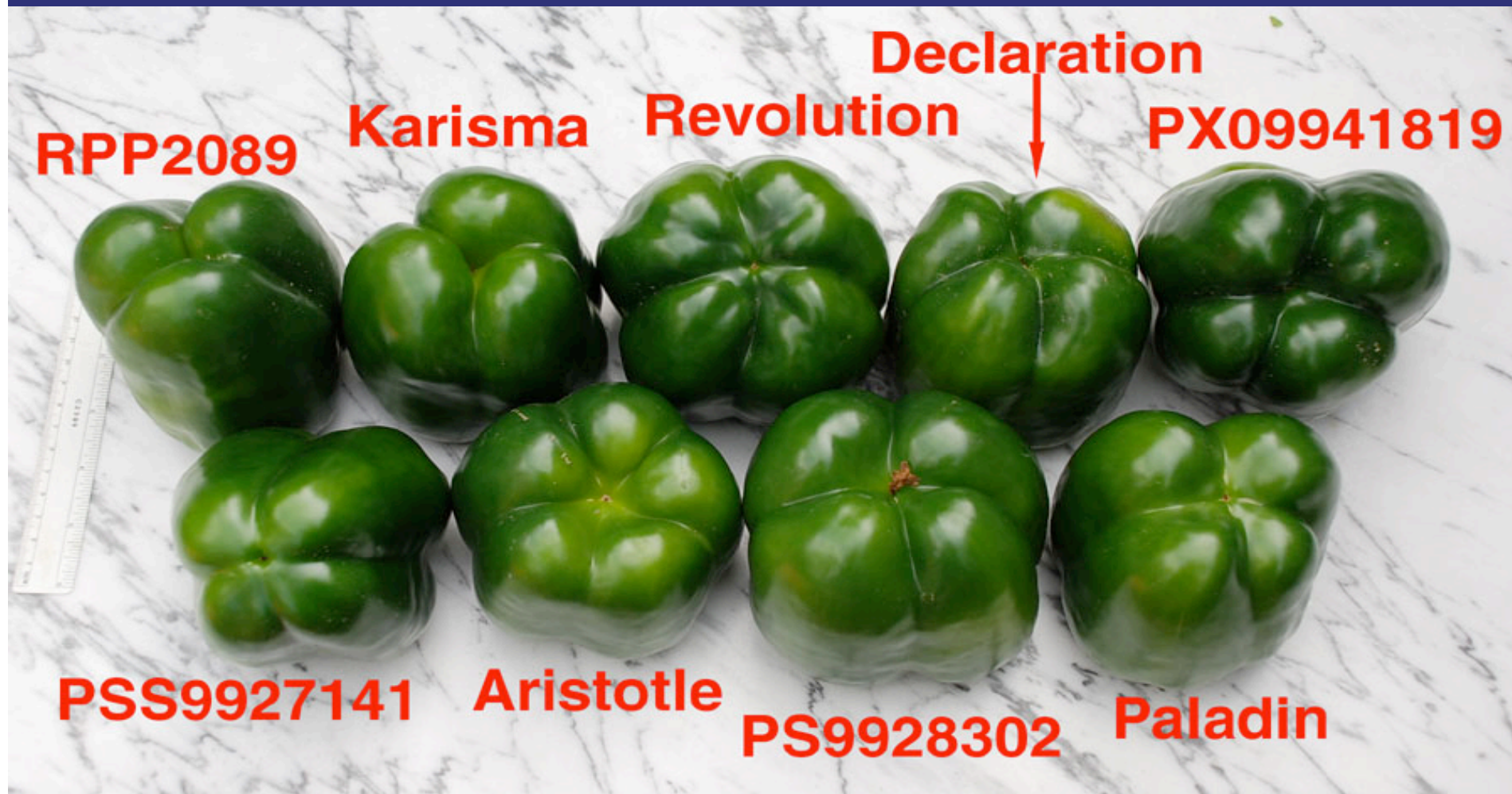
2007



2008

Declaration ranked first in yield in 2007 (left) and fourth (right) in 2008 but not significantly lower in yield than Paladin





Conclusions

1. Revolution. (ID 3) (288 boxes/A) had highest yield of extra large and large for the first harvest. PS992 7141 was second but not significantly lower than Revolution. Karisma produced almost 200 boxes/A of large sized fruit
2. Declaration. (ID 4) (185 boxes/A) ranked 4th for the first harvest and was first in 2007.
3. 9941819 (ID 5) was significantly lower than the top 2 in 2008. It was not significantly different than Declaration in 2007 but had a darker green color.
4. Paladin (ID 9) (550 boxes/A) had highest yield of extra large and large for total harvest followed by Revolution and PS 9927141. Declaration was fourth in yield in 2008 and had the highest yield of extra large and large in 2007.
5. There was no significant difference among varieties in % marketable large fruit produced for all harvests which ranged from a low of 35% to a high of 44%. Excluding cull fruit, % marketable large sized fruit was about 50%, much better than 2007.

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