

2004 PEPPER CULTIVAR TRIAL FOR SOUTHERN ILLINOIS

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The pepper cultivar trial at DSAC was composed of 15 varieties planted into fumigated, raised beds with black plastic mulch and trickle irrigation. The plants were transplanted into the field on June 8. Plants were set in twin rows spaced 12 inches apart and in-row spacing was 12 inches. At this spacing, the population was figured at 15,840 plants per acre. Each plot contained 10 plants and each plot was replicated 3 times. The field was harvested three times: August 3, August 13, and August 26. Pest control practices followed the recommendations given in the *Midwest Vegetable Production Guide, 2004*. Table 1 shows total yield in pounds per plant and bushels per acre in descending order for all 15 varieties.

Table 1. Total yield for the 15 pepper varieties.

| Variety | Color | Source | Size (oz) | Total Yield (lbs/plant) | (bushels/acre) |
|--------------|-------|--------|--------------|------------------------------|------------------|
| Aristotle | G → R | SW | 7.8 | 1.8 | 1140 |
| Legionnaire | G → R | RI | 7.2 | 1.6 | 1014 |
| X3R Camelot | G → R | RI | 6.9 | 1.6 | 1014 |
| Commandant | G → R | RI | 7.1 | 1.5 | 950 |
| Enterprise | G → R | RI | 8.0 | 1.4 | 887 |
| Colossal | G → R | RI | 7.5 | 1.4 | 887 |
| Socrates | G → R | SW | 7.0 | 1.2 | 760 |
| Bianca | Y → O | SW | 5.5 | 1.2 | 760 |
| Alliance | G → R | SW | 8.1 | 1.1 | 697 |
| Revolution** | G → R | RI | 7.8 | 1.0 | 634 |
| Patriot | G → R | SW | 6.2 | 1.0 | 634 |
| Brigadier | G → R | RI | 8.4 | 0.9 | 570 |
| Lafayette | G → Y | RI | 7.8 | 0.8 | 507 |
| King Arthur | G → R | SW | 7.1 | 0.7 | 444 |
| Paladin* | G → R | RI | 6.6 | 0.7 | 444 |

* Phytophthora resistant variety

** Phytophthora tolerant variety

