










## Peppers

Twenty-four varieties of peppers were grown at the Horticulture Research Center (HRC) outside of Fort Collins, Colorado during the 2004 growing season. Transplants were started in the greenhouse on April 1st. Seeds were planted into 72-cell trays filled with Sunshine No. 3 brand soil mix and topped with vermiculite to aid in keeping the seeds moist. Seedlings were fertilized once a week with fish emulsion fertilizer fed through an injector. An average of 20 plants of each variety were transplanted at the HRC on May 26th into black plastic mulch on beds with 30" centers, in a double row at 18" in-row spacing with one line of drip tape. Plastic hoops were used to support row cover from transplanting time until mid-July. See our [Techniques](#) page for more about row covers and plasticulture.







Unfortunately we were hit with a severe golf-ball sized hail storm on August 10, 2004. That storm plus a cool season lended to poor pepper production (see our [Study Area](#) web page for more weather information). Therefore we are not reporting yield data per plant for severely hail damaged varieties, however average weight per pepper, photos, and comments for each of the varieties are below. Yield data is available for varieties that had negligible hail damage, although again, keep in mind the unusually cool season. We will continue with pepper variety trials in 2005.

Photo	Variety/Type	Yield Data	% Hail Damage	Comments
	<i>Ace</i> (Green to Red Sweet Bell Pepper)	3.53 oz./fruit	68%	100% germination rate, thick walled, work horse of a pepper, reliable, first flower set may need thinning because of propensity to become self-entangled, traditionally a good performer
	<i>Antohi Romanian</i> (Specialty/Ethnic Sweet Pepper)	2.71 oz./fruit	29%	78% germination rate, beautiful color, nice size, very productive, thick walled, but unfortunately plain flavor
	<i>Bulldog Hungarian Spice</i> (Ristra/Drying Pepper)	1.21 oz./fruit	28%	83% germination rate, pretty colored pepper

	<p><i>Conchos Jalapeno</i> (Jalapeno Pepper)</p>	<p>1.49 oz./fruit 1.64 lbs./plant</p>	<p>negligible</p>	<p>100% germination rate, nice large peppers, heavy yields, and ironically earlier than Early Jalapeno</p>
	<p><i>Early Jalapeno</i> (Jalapeno Pepper)</p>	<p>0.40 oz./fruit 1.60 lbs./plant</p>	<p>negligible</p>	<p>87% germination rate, good set, still a good producer but not as large a pepper as the Conchos</p>
	<p><i>Giant Marconi</i> (Italian Grilling Pepper)</p>	<p>1.38 oz./fruit 1.28 lbs./plant</p>	<p>negligible</p>	<p>truly giant - nice sized peppers with thick walls, indeed great for grilling, 2002 AAS winner</p>
	<p><i>Gourmet</i> (Orange Sweet Bell Pepper)</p>	<p>4.32 oz./fruit</p>	<p>31%</p>	<p>90% germination rate, large pepper, nice color</p>
	<p><i>Habanero</i> (Specialty/Ethnic Pepper)</p>	<p>N/A</p>	<p>negligible</p>	<p>89% germination rate, lots of buds but too late, almost no production</p>
	<p><i>Hot Pepper Lantern</i> (Specialty/Ethnic Pepper)</p>	<p>N/A</p>	<p>negligible</p>	<p>89% germination rate, almost no production</p>

	<p><i>Hungarian Hot Wax</i> (Specialty/Ethnic Pepper)</p>	<p>0.90 oz./fruit 1.0 lbs./plant</p>	<p>negligible</p>	<p>93% germination rate, pretty, tasty hot pepper, very prolific, some sunburn</p>
	<p><i>Islander</i> (Sweet Bell Pepper - Purple to Orange to Red)</p>	<p>3.66 oz./fruit</p>	<p>49%</p>	<p>86% germination rate, great marketability, people love color purple to orange, however walls are still somewhat thin when purple</p>
	<p><i>King Arthur</i> (Green to Red Sweet Bell Pepper)</p>	<p>5.36 oz./fruit</p>	<p>39%</p>	<p>97% germination rate, great variety, BIG bells, covered well by leaves, beautiful sized fruits, consistent variety</p>
	<p><i>Krimzon Lee</i> (Ristra/Drying Pepper)</p>	<p>2.58 oz./fruit</p>	<p>21%</p>	<p>96% germination rate, an attractive pepper, good for roasting and grilling</p>
	<p><i>Labrador</i> (Yellow Sweet Bell Pepper)</p>	<p>3.54 oz./fruit</p>	<p>51%</p>	<p>83% germination rate</p>



	<p><i>Lipstick</i> (Specialty/Ethnic Sweet Pepper)</p>	<p>2.33 oz./fruit</p>	<p>21%</p>	<p>61% germination rate, thick walls, a beautiful multi-use pepper, previous experience indicates that it's a good performer in this area</p>
	<p><i>Numex Joe E. Parker</i> (SW Style Chile)</p>	<p>1.99 oz./fruit 2.0 lbs./plant</p>	<p>negligible</p>	<p>71% germination rate, good reliable chile pepper</p>
	<p><i>Perfection</i> (White Sweet Bell Pepper)</p>	<p>3.25 oz./fruit</p>	<p>28%</p>	<p>94% germination rate, medium to small size, valued as an additional color to your pepper mix</p>
	<p><i>Round of Hungary</i> (Specialty/Ethnic Sweet Pepper - Pimento)</p>	<p>3.20 oz./fruit</p>	<p>28%</p>	<p>72% germination rate, beautiful deeply lobed pepper, very sweet, great in salads, needs washing when grown on plasticulture if soil splash is a problem</p>
	<p><i>Serrano del sol</i> (SW Style Chile)</p>	<p>0.33 oz./fruit</p>	<p>9%</p>	<p>92% germination rate, good set, heavy yields, hot pepper!</p>
	<p><i>Sweet Chocolate</i> (Brown Sweet Bell Pepper)</p>	<p>2.31 oz./fruit</p>	<p>29%</p>	<p>73% germination rate, small size, good chocolate color, tend to get soft quickly after turning brown, thin walled</p>

	<p><i>Thai Dragon</i> (Ristra/Drying Pepper)</p>	<p>0.08 oz./fruit 0.48 lbs./plant</p>	<p>negligible</p>	<p>94% germination rate, brutally hot!!</p>
	<p><i>Tiburón</i> (Poblano/Ancho Pepper)</p>	<p>1.48 oz./fruit 1.06 lbs./plant</p>	<p>negligible</p>	<p>94% germination rate, nice deep green pepper, good stuffing/roasting pepper - thin walled</p>
	<p><i>X3R Red Knight</i> (Green to Red Sweet Bell Pepper)</p>	<p>5.43 oz./fruit</p>	<p>46%</p>	<p>87% germination rate, good sized peppers, in these trials performed better than Ace</p>

		
<p><i>Examples of hail damage on peppers</i></p>		<p><i>Mix of bell pepper varieties (Islander on left, Perfection top right)</i></p>