

Ohio OX150 Hybrid Processing Tomato

Ohio OX150 is an early to mid season processing tomato (*Lycopersicon esculentum* Mill.) hybrid adapted to high population transplant culture, machine harvest, and bulk handling under humid growing environments. It is suited for the production of peeled, whole-canned, and diced tomato products.

Origin: Ohio OX150 is the F1 hybrid resulting from the cross of the inbred line O88119 described by Berry et al. (1995) and Ohio 9242 (see attached description). 'Ohio 9242' is an F8 selection derived by single seed decent the F6 selection A1816. The selection A1816 is derived from a cross between 'Ohio 832' (Berry et al., 1986) variant 'O9149' (Montagno et al., 1988) and 'Ohio 8556' (Berry et. al. 1993).

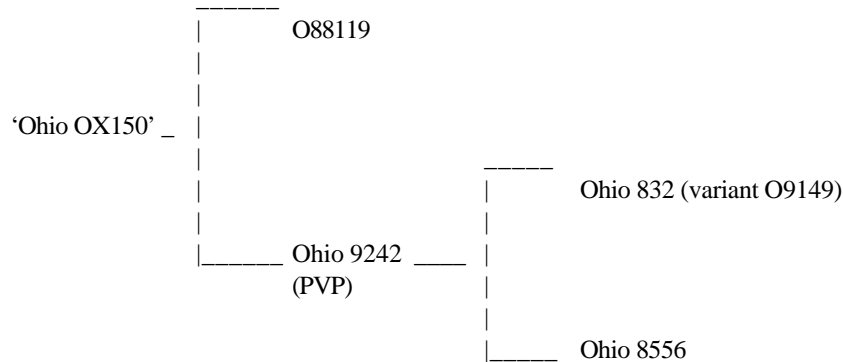


Fig. 1. Pedigree of 'Ohio OX150'

Description: Ohio OX150 vines are medium in size, semi-prostrate, and determinate (sp). Foliage cover is excellent for ensuring good fruit quality and at maturity the vines cover the row area uniformly. The average maturity from transplant to harvest of 'Ohio OX150' is 97.1 days over four years of field testing, comparable to the early season standard, 'Ohio 7983' (Berry et al. 1992).

The average machine harvest yield of Ohio OX150 was 32.8 T/A over four years of testing, outperforming the major early season varieties open pollinated variety Ohio 7983 and comparing favorably to OX 52 (Francis and Berry, 2000) (though differences were not always significant). Yields of 'Ohio OX150' were comparable to the main-season open pollinated variety Ohio 8245 and the main-season hybrid Heinz 9423. Yields were somewhat less than the major main-season variety Peto 696.

Fruit of 'Ohio OX150' average 2.1 oz with two to three locules. The shape is ovate. Fruit have a small stem scar and core, are uniform ripening (u), are attached by a jointless pedicel (j2), and are heterozygous for the crimson (ogc/+) locus. The color of fruit from 'Ohio OX150' is excellent.

References:

- Berry, S.Z. and W.A. Gould. 1986. 'Ohio 832' Tomato. HortScience 21:334.
- Berry, S.Z. K.L. Weise, and W.A. Gould. 1992. "Ohio 7983" Processing Tomato. Hortscience 27: 939.
- Berry, S.Z., K.L. Wiese, and T.S. Aldrich. 1993. "Ohio 8556" Processing Tomato. HortScience 28:751.
- Berry, S. Z., T.S. Aldrich, K.L. Wiese, and W.D. Bash. 1995. 'Ohio OX38" Hybrid Processing Tomato. Hortscience 30:159.
- Francis, D. M., S. Berry, T. Aldrich, K. Scaife, W. Bash 2000 'Ohio OX 52' Processing Tomato. Report of the Tomato Genetics Cooperative Vol 50
- Montagno, T. J., R.D. Lineberger, and S.Z. Berry. 1989. Somaclonal and Radiation Induced Variation in *Lycopersicon Esculentum*. Environmental and Experimental Botany. 29:401-408.

