

## ‘Ohio OX52’ Hybrid Processing Tomato

‘Ohio OX52’ is an early-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 OX52’ is the F1 hybrid resulting from the cross of the inbred line O87160 and Ohio 7814 (Berry et al. 1983). The line O87160 is an F6 selection from the cross of Ohio breeding lines B2905-1 and B2634-1; B2905-1 was derived from the cross ‘Ohio 7870’ X ‘K1483-3’. B2634-1 was derived from the cross Heinz 2653 and Heinz 722. O87160 is derived from the same F<sub>3</sub> as O88119 (Berry et al., 1995)

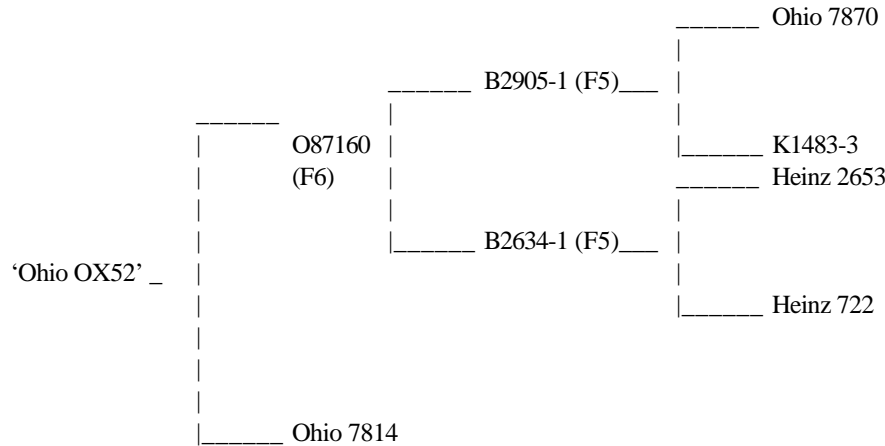


Fig. 1. Pedigree of ‘Ohio OX52’

Description: ‘Ohio OX52’ vines are medium in size, semi-prostrate, and determinate (sp). Foliage cover is adequate for ensuring good fruit quality and at maturity the vines cover the row area uniformly. The average maturity from transplant to harvest of ‘Ohio OX52’ is 97.1 days over four years of field testing, and is comparable in maturity to the early season standard, ‘Ohio 7983’ (Berry et al. 1992).

The average machine harvest yield of ‘Ohio OX52’ was 33.2 T/A over four years of testing, outperforming the major early season varieties ‘Ohio OX 88’ and ‘Ohio 7983’ (though differences were not always significant). Yields of ‘Ohio OX52’ were comparable to the main-season variety ‘Ohio OX38’ and somewhat less than the major main-season variety Peto 696.

Fruit of ‘Ohio OX52’ 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), and are attached by a jointless pedicel (j2). The color and uniformity of color for fruit from ‘Ohio OX52’ are comparable to other varieties of the same maturity and superior to the main-season varieties OX38 and Peto 696.

### References:

Berry, S.Z. and W.A. Gould. 1983. ‘Ohio 7814’ Tomato. HortScience 18:494-496.

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.

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