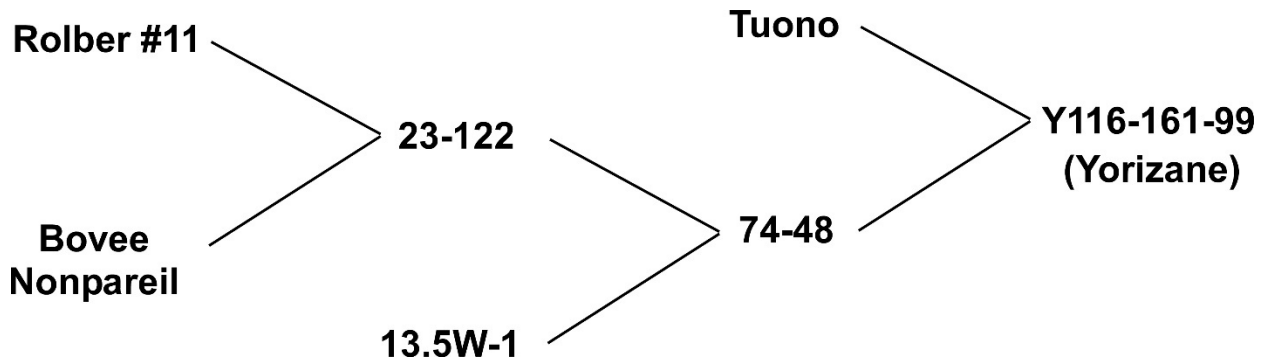




NOTICE OF RELEASE OF ALMOND CULTIVAR ‘YORIZANE’

The Agricultural Research Service, U.S. Department of Agriculture, announces release of a new almond (*Prunus dulcis* L.) cultivar, ‘Yorizane,’ tested previously as Y116-161-99. This new cultivar was developed from a planned cross (985001) performed in 1998 between European self-fertile cultivar ‘Tuono’ and ARS advanced almond selection 74-48. Seedlings (131) from this cross were planted at the USDA-ARS San Joaquin Valley Agricultural Sciences Center in Parlier, CA. The ‘Yorizane’ was selected for trialing by Craig A. Ledbetter in 2003 due to its attractive kernel characteristics, self-fertility and apparent heavy yield. The pedigree of ‘Yorizane’ is provided in the following diagram:



While the bloom interval of ‘Yorizane’ matches ‘Nonpareil’ almond quite closely, cross pollination with ‘Nonpareil’ or other almond cultivars is unnecessary for nut set. The self-fertile ‘Yorizane’ carries *S*-compatibility genotype S_fS_5 . Hull split of the new cultivar typically begins during mid-July in the San Joaquin Valley and mirrors the ripening of ‘Nonpareil.’ Kernel weight of ‘Yorizane’ is like that of ‘Nonpareil’ (1.3g vs. 1.2g, respectively) and both cultivars yield approximately 67% kernel crack-out. The ‘Yorizane’ exhibits a higher percentage of sealed nuts compared to ‘Nonpareil’ and a lower quantity of double kernels (69% vs. 49% and 2.0% vs. 4.6%, respectively). Dimensionally, kernels of ‘Yorizane’ have a smaller length : width ratio and significantly larger length : thickness and width : thickness ratios as compared with ‘Nonpareil’ kernels. Kernels of the new cultivar should be available for the California Marketing category.

The 'Yorizane' is part of the 2014 Regional Almond Variety Trial planting where it has been evaluated for horticultural and nut quality characteristics in Butte, Stanislaus and Madera counties. The new cultivar has yielded well across regions during the first four commercial harvests. The 'Yorizane' exhibits few serious kernel defects and has been rated highly in terms of marketing potential and kernel appearance.

The 'Yorizane' has been indexed and tested negative for 15 viruses, including prunus necrotic ringspot, peach rosette mosaic, and peach latent mosaic, as well as for general phytoplasmas. The new cultivar will be deposited in the National Plant Germplasm System where it will be available for research purposes, including development and commercialization of new cultivars (<https://npgsweb.ars-grin.gov/gringlobal/search.aspx>). Limited quantities of budwood are available. Requests should be sent to Craig A. Ledbetter, San Joaquin Valley Agricultural Sciences Center, Parlier, CA 93648-9757 (craig.ledbetter@usda.gov). It is requested that appropriate recognition be made if this germplasm contributes to the development of a new breeding line or cultivar.

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Signature:

Acting Deputy Administrator, Crop Production and Protection
Agricultural Research Service, U.S. Department of Agriculture

Date