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Permalink
https://escholarship.org/uc/item/9c94d798

Journal
International Organization of Citrus Virologists Conference Proceedings (1957-2010), 4(4)

ISSN
2313-5123

Authors
Zanardi, D.
Anedda, G.
Follesa, B.

Publication Date
1968

Peer reviewed
A Summary of the Citrus Budwood Certification Program in Sardinia

D. ZANARDI, G. ANEDDA, and B. FOLLESAs

RECENT RESEARCH points to the necessity of developing sources of virus-free citrus budwood in Sardinia, as elsewhere. A special board created by the Assessorato Agriculture e Foreste della Regione Sarda has over the last three years surveyed the virus infections of about 1,000 trees of Washington and Thomson navel, Tarocco Muso, Belladonna, Valencia late, St. Vito late, and Sanguinello sweet orange [Citrus sinensis (L.) Osb.], Tangerina Avana and Satsuma (C. reticulata Blanco), grapefruit (C. paradisi Macf.), and Lunario lemon [C. limon (L.) Burm. f.].

After rigorous selection and discarding of trees with various anomalous disorders, 361 candidate trees were selected for indexing on the following test plants: Mexican lime [C. aurantifolia (Christm.) Swing.] for tristeza; Orlando tangelo (C. paradisi Macf. x C. reticulata Blanco) for cachexia-xyloporosis; Rangpur lime (C. reticulata var. austera hyb.) and Etrog citron (C. medica L. var. ethrog Engl.) 60-13 for exocortis; and bitter sweet orange (C. aurantium L.), sweet orange, and Mexican lime for psorosis. Our first results indicate that numerous candidate trees will have to be discarded. Old-line citrus trees in Sardinia seem to be virus-free as infrequently as elsewhere, and no doubt we shall have to depend heavily on nucellar lines in the future. To that end, a program
to develop nucellar lines of the principal local varieties has been started, and nucellar lines of certain foreign selections have been imported for observation and testing.