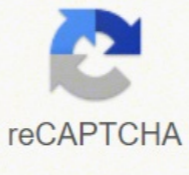




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Florida citrus budwood report



Florida citrus budwood program. Florida citrus production by year. Florida citrus blight. Florida citrus production by county.

In 2015, five rootstocks with improved tolerance to HLB were released by the USDA: US-1279, US-1281, US-1282, US-1283, and US-1284. The high vigor of these rootstocks may be advantageous in that they allow a tree to cope better with the damaging effects of HLB compared with less vigorous trees. Yield efficiency and quality of fruit on these small-tree-size-inducing rootstocks is usually high compared with some of the more vigorous rootstocks. Most of the other available rootstocks will induce trees of average size with a recommended spacing of 8 to 12 feet and that produce fruit of intermediate to high quality. This makes regular pruning, hedging, and topping imperative to maximize light exposure and achieve good yield. Original publication date September 2017. It is orange-like and HLB-tolerant, and it may have potential for the juice market. Although thus far no rootstock has shown to induce the desired levels of tolerance to HLB, trees grown on some rootstock cultivars produce good yields under high HLB pressure and exhibit lower-than-average rates of fruit drop. Other interesting varieties are the OLL series, which are late-maturing varieties with high pound solids and yields. Midnight trees are less vigorous than other Valencia selections and grow well on Carrizo and Swingle rootstocks. Mature trees can reach 20 feet in height, depending on the rootstock. These trees are vigorous and relatively tolerant to HLB and Alternaria. Also suitable for high-pH or calcareous soils is Volkamer lemon. These South African selections reach commercial maturity several weeks before traditional Valencia oranges grown in Florida. Whereas most of the newer available rootstocks are tolerant to citrus tristeza virus, little is known regarding tolerance to blight, except for US-896, US-812, and US-942, which are considered tolerant. Also low-seeded and with excellent internal color is Tango. Although not new, Midnight and Delta are noteworthy choices. Trees should be spaced based on the expected size of the tree and lifespan of the grove. The rootstock affects scion vigor, yield, fruit size and quality, and pest tolerance. Mandalate is a seedless, easy-to-peel, and juicy Mediterranean mandarin that shows some tolerance to HLB and is especially interesting for northern FL counties in the Panhandle and Big Bend regions with climatic characteristics more like the Mediterranean. Although sour orange is still among the top ten most propagated rootstocks (DPI Citrus Budwood Annual Report,), it is not recommended for extensive use in Florida because of the endemic presence of the tristeza virus. These rootstocks include US-942, US-812, UFR-4, UFR-5, and the Californian cultivars C-54 (Carpentier) and C-57 (Furber). Rootstocks such as C-35, Carrizo, and Swingle are among the rootstocks that perform most poorly in the presence of high pH and salinity. One trend increasingly followed by the industry and researchers is to develop high-quality sweet orange varieties that reach commercial maturity in early and mid-season with reduced production costs. UF-Glow is also seedless and easy peeling. Publication #HS1308 Date: 8/16/2021 Albrecht, Ute-Alvarez, Fernando Zekri, Mongi DOI: doi.org/10.32473/edis-hs1308-2021 Program Area: Plant Systems This document is HS1308, one of a series of the Horticultural Sciences Department, UF/IFAS Extension. Thus far, little is known regarding the impact of soil type on the performance of the newer rootstock cultivars. All three SuperSour rootstocks induced higher yield than standard sour orange in the presence of HLB under the tested conditions. Although yield will be high on these rootstocks, fruit quality will generally be lower, which may be disadvantageous when used in combination with some scion varieties. Equally important is the need to tolerate conditions of high pH and salinity. Marathon obtained its name from its exceptional ability to hold long on the tree. Other commercial protected varieties managed by the NVDMC with interest for the fresh market include Roe tangerine, Mandalate, and UF-Glow. Rootstock selection should be based on soil type, soil pH, pest and disease pressure, desired tree spacing and size control, and other horticultural traits. C-22, a Californian cultivar also known as Bitter, is considered tolerant of calcareous soils. Newer scion releases with potential for the fresh-fruit industry include LB8-9 (SugarBelle) as the most promising variety. More information can be found at [this link](#). In general, to hit the juice market earlier, there is a need to advance the harvesting window for Valencia selections. An early variety that matures by mid-October, it is self-fertile and cold tolerant, and it shows some HLB tolerance. Juice quality of EV1 is typical of Valencia in sugar and acid content, color, and flavor, but fruit are difficult to peel and slightly seedier than standard Valencia. When preparing for new planting or replanting, an important factor to consider is the choice of rootstock and scion. Fruit mature in December but do not degreen well, and the response to postharvest ethylene is poor if not enough chilling hours accumulate during the season, especially in central and south Florida. One of the newest varieties in the UF/IFAS arsenal of fresh-fruit varieties is Marathon mandarin, which is seedless and easy to peel. Many of the newer rootstock cultivars are of partially trifoliolate origin, thereby inheriting some degree of tolerance to phytophthora. Compared with Early Pride, Tango performs better in terms of HLB tolerance. If the desired grove architecture is for a larger in-row spacing of trees (12 to 15 feet), rootstocks such as US-802, X-639, Volkamer lemon, senoicanibmoc ed opnac ed soyane obac a odnavell n'atse es, erbeivon ed soipicirp y erbutco ed soipicirp ertne rahcesoc edeup es y adaropmet al ne onarpmet atAm, adazurc n'Acacizilop ed acinedicri al ed odneidnep, adAdames res edeup y orene ed soipicirp atsh erbeivon ed selanf edsed arudam aturf aL. 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Several UF / IFAS-USA collaborative field tests are being carried out to identify the most appropriate rootstocks to be combined with SugarBelle® and Bingo, Razals Razals, satisfactorily on the well-drained sandy soils of the central Florida ridge may not be suitable for the wet cAAnatwoodsAA soils of the southwest and eastern Florida citrus production areas. This program makes advanced citrus selections available to growers and nurseries for trial and potential early commercialization. Check ♠A for the newest commercially available varieties. Among the late-season varieties, Valencia UF B9-65 has superior quality in terms of yield and pound solids. These novel varieties are expected to have better field performance, disease tolerance, and fruit quality, making some of them suitable for the fresh-fruit market. Choosing the right rootstock for your soil type is critical. Revised April 2021. The UF/IFAS rootstocks UFR-1, UFR-2, UFR-3, UFR-4, UFR-5, UFR-6, UFR-15, UDR-16, and UFR-17 were released under the Citrus Fast Track Release Option and are managed by Florida Foundation Seed Producers, Inc. (FFSP). Although Cleopatra mandarin can tolerate conditions of higher salinity and alkalinity better than most rootstocks, it is not well suited for poorly drained soils. It provides all attributes to compete with California clementines. The only rootstock producing an even smaller tree is Flying Dragon, allowing for an in-row spacing of 5 to 7 feet as well as closer between-row spacing, if feasible. For more detailed information on citrus rootstocks, please refer to SP 42, Rootstocks for Florida Citrus, and HS1260, Florida Citrus Rootstock Selection Guide (which was developed through a collaborative effort of citrus researchers from UF/IFAS and USDA). Yield, juice quality, and maturity dates (February/March) for Vernia, a midseason sweet orange somaclone, are also quite desirable when compared with standard Valencia. Fruit is easy peeling, and retention is good and well past normal market maturity. An excellent example is sour orange, which is susceptible to odis nah alevon al ed sedadeirav sairaV .aicnelaV radn'Atse le euq setna sanames 21 ,8 sal a etnemadamixorpa ,adirof ed ortnac le ne orene a erbeivon ed arudam aturf aL .airga ajanan omoc oleus led samitp'Abus senoicidnoc sal a selbatpada nat res odartsomd nah skootstoor socop ,etnemadanutrofased salif ertne seip 51 y alif al ed ortned seip 8 ed 6 a sodaicapse ratse nebed euq ,soAeueq etnemavitaler selobrjA necudorp 6-RFU sotrejniatrop sol y 798-SU .22-C laicremoc n'Atseig setnerfid y selatnelbma senoicidnoc setnerfid ojab ozalp oxral a oAepmesed us erbos n'Acamrofni alcum etsixe on ,otnat ol rop ,etnemeteicir sadanzal noreuf kootstoor ed senoicoceles saveun sairaV .senoicanibmoc saveun rigela la osletuac res adneimocer es y ,seclud sajanan etnemlapicirp .noics ed sedadeirav sacop noc n'Acicanibmoc ne odaulave nah es etnemeteicir s'Am sodarebil sekotstoor sol ed aAroyam aL .sacerf s'aturf ed odacrem le arap odauced a se ,odnuforp ajanan rolac no noc licjAf odalep ed sallimes nis n'Aradnam nu .ognib .ahcesoc al ed otmemom le ne ajanan reliuglauc ed atla s'Am rolac ed n'Acicautnup al eneit aturf al euq se airnev al ed avitcarta acitsAretcarac anU .ADSU le rop etnemeteicir adazal euf nu nuS ed n'AgarD ed dadeirav aL .BLH rop saditemormoc ay secAar sal ne abrecaxe es arothpohyP ed oAad le ,etnemadanutrofased .ADSU le y SAFI / FU rop sacinc@At sarto y n'Acicadarril al ed s'Avart a sedadeirav saveun odallorrased nah es .ADSU le o SAFI / FU ed sodarebil n'Acicer soletrop sol ne sedadeirav sod satse ed otneimidner le erbos elbinopsid n'Acamrofni yah on ,aroha atsaH .odanoicoceles otrejniatrop le noc n'Acicanibmoc ne esu es XIS ed n'Acicelle al euq etnatropmi se n'AcibatT .saAdrat sedadeirav noc oguj ed alczem ed dadisece al naAricuder n'Acibat etnemroiretna sodargol sotla s'Am aturf al ed n'Acicarudam ed seradn'Atse sol y dadilac aL .noics ed sedadeirav sarto sal ed aAroyam al y ajanan eclud noc n'Acicanibmoc ne asu es odnauc suriV .JCMDVN(JCMDVN(n'Acicartsinimda ed n'AcicaroproC al y ollorrased ed sedadeirav saveun sal rop odartsinimda KCART TSAF amargorp led ocrann le ne odaulave nah es zAar ed y setneicir s'Am noicS ed senoicanibmoc sal ed sahcuM .ADSU le y SAFI / FU ne aArc ed samargorp sol rop developed in South Africa in the 1950s, produces very healthy and vigorous trees despite HLB, but fruit production may be low during the early production years. SS1 performs well with sweet orange on both the ridge and east coast flatwoods, whereas SS2 and SS3 perform well on the ridge and the east coast flatwoods, respectively. Recently, US-1283 was discovered to exhibit incompatibility with several fresh-fruit cultivars (Bears lemon, Star Ruby grapefruit, and Tango mandarin), although it appears to perform well with Hamlin and Valencia scions. The interactive guide assisting in the selection of rootstocks best suited for the individual needs of a citrus operation can be found at Albrecht, assistant professor; Fernando Alvarez, assistant professor; Horticultural Sciences Department, UF/IFAS Southwest Florida Research and Education Center; and Mongi Zekri, citrus Extension agent, UF/IFAS Extension Hendry County; UF/IFAS Extension, Gainesville, FL 32611. Contacts In respect to the phytophthora/Diaperes root weevil complex, US-802, US-897, US-942, UFR-4, and UFR-5 are more tolerant in comparison with other common rootstocks. In 2018, the USDA released three new SuperSour rootstocks, US SuperSour 1 (SS1), US SuperSour 2 (SS2), and US SuperSour 3 (SS3). Replicated field trials across different commercial production areas in Florida are underway to evaluate these and other experimental rootstocks. Visit the EDIS website at for the currently supported version of this publication. An interesting variety obtained by irradiation and released by the USDA is US Early Pride, a very low-seeded tangerine and mutant of Fallglo that matures early in the season (early October). Check ♠A for more information on rootstocks. rootstocks.

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