INTERACTIONS between NUTRIENTS/SOIL CONDITIONS and PESTS, DISEASES & PHYSIOLOGICAL DISORDERS - CITRUS

REFERENCES – Citrus 2/23/2020

Abo El-Enien, Abo El-Kassim, El-Azaze, El-Sayed. (2017). Effect of silicon, potassium and calcium compounds on growth and increase the efficiency of citrus seedlings to resist citrus leafminer (Phyllocnistis citrella). *Journal of Productivity and Development*, *22*(3), 729-749.

Ahmad, K., Sijam, K., Hashim, H., Rosli, Z., & Abdu, A. (2011). Field assessment of calcium, copper and zinc ions on plant recovery and disease severity following infection of Huanglongbing (HLB) disease. African Journal of Microbiology Research, 5(28), 4967-4979.

Ahmad, K., Sijam, K., Hashim, H., Rosli, Z., & Abdu, A. (2011). Field assessment of calcium, copper and zinc ions on plant recovery and disease severity following infection of Huanglongbing (HLB) disease. African Journal of Microbiology Research, 5(28), 4967-4979.

Allen. (1962). Dry root rot of citrus induced by ammonium excesses (abstr). Phytopathology 52:721,

Alva AK, Paramasivam S, Graham WD, Wheaton TA (2003). Best nitrogen and irrigation management practices for citrus production in sandy soils. Water air soil pollut. 143. 139-154.

Antunes, V., & Cardoso, E. J. B. N. (1991). Growth and nutrient status of citrus plants as influenced by mycorrhiza and phosphorus application. Plant and Soil, 131(1), 11-19

Asanzi, N. M., Taylor, N. J., & Vahrmeijer, J. T. (2014). Can silicon be used to prevent Alternaria alternata in citrus trees?. SA Fruit Journal, 13(7), 48

Ashraf MY, Yaqub M, Akhtar J, Khan MA, Ali-Khan M, Ebert G. (2012). Control of excessive fruit drop and improvement in yield and juice quality of Kinnow (Citrus nobilis x Citrus deliciosa) through nutrient management. Pakistan Journal of Botany. 2012; 44:259-65.

Ashraf, M. Y., Yaqub, M., Akhtar, J., Khan, M. A., Ali-Khan, M., & Ebert, G. (2012). Control of excessive fruit drop and improvement in yield and juice quality of Kinnow (Citrus deliciosa x Citrus nobilis) through nutrient management. *Pak. J. Bot*, *44*, 259-265.

Ateyyat, M. A., & Mustafa, T. M. (2001). Cultural control of citrus leafminer, Phyllocnistis citrella Stainton (Lepidoptera: Gracillariidae) on lemon in Jordan. *International journal of pest management*, *47*(4), 285-288.

BEATTIE, G., WEIR, R., CLIFT, A., & JIANG, L. (1990). Effect of nutrients on the growth and phenology of Gascardia destructor (Newstead) and Ceroplastes sinensis del Guercio (Hemiptera: Coccidae) infesting citrus. *Journal of the Australian Entomological Society*, *29*(3), 199-203

Bedford, E. G. C. (1943). The biology and economic importance of the South African citrus thrips, Scirtothrips auranlii Faure. Publ. Univ. Prel. Ser. III Nat. Sci. 7: 1-68.

Bernardi, A. C. D. C., Carmello, Q. A. D. C., Carvalho, S. A. D., Machado, E. C., Medina, C. L., Gomes, M. D. M. D. A., & Lima, D. M. (2015). Nitrogen, phosphorus and potassium fertilization interactions on the photosynthesis of containerized citrus nursery trees. *Journal of plant nutrition*, *38*(12), 1902-1912.

Bi, J. L., Castle, S. J., Byrne, F. J., Tuan, S. J., & Toscano, N. C. (2005). Influence of seasonal nitrogen nutrition fluctuations in orange and lemon trees on population dynamics of the glassy-winged sharpshooter (Homalodisca coagulata). *Journal of chemical ecology*, *31*(10), 2289-2308.

Bmn, J. O. P., Onillon, J., & Franco, G. D. E. (1986, June). Effect of fertilizer on the population level of the citrus white-fly Dialeurodes citri (Homoptera, Aleyrodidae). In Integrated pest control in citrus-groves: proceedings of the experts' meeting, Acireale, 26-29 March 1985 (p. 109). CRC Press.

Boakye, D. (2017). Survey and estimation of pathological and edaphic causes of citrus pre-harvest fruit drop in three major citrus growing areas in Ashanti Region of Ghana (Dissertation). [Online] http://dspace.knust.edu.gh/bitstream/123456789/10094/3/Daniel%20Adu%20Boakye%20thesis.pdf

Borowicz, V. A., Albrecht, U., & Mayer, R. T. (2003). Effects of nutrient supply on citrus resistance to root herbivory by Diaprepes abbreviatus L.(Coleoptera: Curculionidae). Environmental entomology, 32(5), 1242-1250.

Braham, M., & Amor, N. (2018). Effect of pruning severity on the vegetative growth, density and population dynamics of the Spirea aphid, Aphis spiraecola in Citrus orchard. Journal of Entomology and Zoology Studies, 6(1), 311-319

Burnett, H. C., Nemec, S., & Patterson, M. (1982). A review of Florida citrus blight and its association with soil edaphic factors, nutrition and Fusarium solani. *International Journal of Pest Management*, *28*(4), 416-422.

Campanella, V., Ippolito, A., & Nigro, F. (2002). Activity of calcium salts in controlling Phytophthora root rot of citrus. Crop Protection, 21(9), 751-756.

Casale, W. L., Minassian, V., Menge, J. A., Lovatt, C. J., Pond, E., Johnson, E., & Guillemet, F. (1995). Urban and agricultural wastes for use as mulches on avocado and citrus and for delivery of microbial biocontrol agents. Journal of Horticultural Science, 70(2), 315-332.

Catling, H. D. (1969). The bionomics of the South African citrus psylla, Trioza erytreae (Del Guercio) (Homoptera: Psyllidae). 1. The influence of the flushing rhythm of citrus and factors which regulate flushing.—J. ent. Soc. sth. Afr. 32, 191–208.

Catling, H. D. (1971). The bionomics of the South African citrus psylla, Trioza erytreae (Del Guercio)(Homoptera: Psyllidae) 5. The influence of host plant quality. Journal of the Entomological Society of Southern Africa, 34(2), 381-391.

Catling, H. D. (1972). Factors regulating populations of psyllid vectors of greening. In *International Organization of Citrus Virologists Conference Proceedings (1957-2010)* (Vol. 5, No. 5).

Cerioni, L., Rapisarda, V. A., Doctor, J., Fikkert, S., Ruiz, T., Fassel, R., and Smilanick, J. L. (2013). Use of phosphite salts in laboratory and semicommercial tests to control citrus postharvest decay. Plant Dis. 97:201-212

Chaboussou, F. (1976). Cultural factors and the resistance of citrus plants to scale insects and mites. Fertilizer use and plant health. Internat. Potash Inst., Worblaufen-Bern, Switzerland, 259-280.

Chaboussou, F. (1976): Cultural factors and the resistance of citrus plants to scale insects and mites, pp. 259-280. Fertilizer use and plant health: Proceedings of the 12th Colloquium of the International Potash Institute held in Izmir/Turkey, 1976. International Potash Institute, Worblaufen-Bem, Switzerland

Chapman, H.D. (1968). The mineral nutrition of citrus. In: W. Reuther, H.J. Webber, L.D. Batchelor (eds). The Citrus Industry, Vol. 2. Division of Agricultural Sciences, University of California, Berkeley, CA, USA, pp. 127-89.

Chapman, J. C. (1985). Growth management of mature citrus with applied nitrogen. In Symposium on Physiology of Productivity of Subtropical and Tropical Tree Fruits. 1985, May 175 (pp. 173-178).

Chávez-Dulanto, P. N., Rey, B., Ubillús, C., Rázuri, V., Bazán, R., & Sarmiento, J. (2018). Foliar application of macro-and micronutrients for pest-mites control in citrus crops. *Food and Energy Security*, *7*(2), e00132.

Cheng, Zeng. (1991). Hongguang, the best strain of Nanfeng Guangju. China Citrus. Vol 20(3): 17.

Chikaizumi, S., Hino, A., & Mizutani, F. (1998). Effects of calcium compounds, calcium-competitive inhibitors, lime sulfur and abscisic acid on incidence of'Kohansho'disorder in'Shirayanagi'navel orange (Citrus sinensis Osbeck var. brasiliensis Tanaka) fruit. *Bulletin of the Experimental Farm College of Agriculture-Ehime University (Japan)*.

Chikaizumi, S., Hino, A., & Mizutani, F. (2004). Effects of growing conditions on the occurrence of" Kohansho" disorder of hassaku (Citrus hassaku hort. ex Tanaka) fruit. *Bulletin of the Experimental Farm College of Agriculture-Ehime University (Japan)*.

Cooper, W.C., Peynado, A., (1959). Chloride and boron tolerance of young-line citrus

trees on various rootstocks. J. Rio Grande Valley Hortic. Soc. 13, 89–96.

Crane, J. H. (2010). Key Lime Growing in the Florida Home Landscape.

D. C. Teixeira, C. Saillard, C. Couture, E. C. Martins, N. A. Wulff, S. Eveillard-Jagoueix, P. T. Yamamoto, A. J. Ayres and J. M. Bov_e, (2008). Mol. Cell. Probes. 22, 139–150.

Davies, Albrigo, (1994). Citrus. Crop Production Science in: Horticulture 2, 1st ed., Wallingford, UK. CAB International, Great Britain.

Dewdney, M., Vashisth, T., Diepenbrock, L. (2019). Florida Citrus Pest Management Guide: Huanglongbing (Citrus Greening). Publication #PP-225. IFAS/UF, Gainesville. [Online]. http://edis.ifas.ufl.edu/cg086

Dito, D. (2016). *The potential management of citrus leafminer, Phyllocnistis citrella (Stainton)(Lepidoptera: Gracillariidae), by use of soluble silicon fertilizers*. University of California, Davis.

Dixon, R. K., Garrett, H. E., & Cox, G. S. (1989). Boron fertilization, vesicular-arbuscular mycorrhizal colonization and growth of citrus jambhiri lush. *Journal of plant nutrition*, *12*(6), 687-700.

Dunn, D. C., Duncan, L. W., & Romeo, J. T. (1998). Changes in arginine, pal activity, and nematode behavior in salinity-stressed citrus in honour of Professor GH Neil Towers 75th birthday. Phytochemistry, 49(2), 413-417.

Eckert, J. W., & Eaks, I. L. (1989). Postharvest disorders and diseases of citrus fruits. The citrus industry, 5, 179-260.

El- Gioushy, S. (2016). Productivity, fruit quality and nutritional status of washington navel orange trees as influenced by foliar application with salicylic acid and potassium silicate combinations. Journal of Horticultural Science & Ornamental Plants 8 (2): 98-107

El-Gali, Z. I. (2014). Control of Penicillium digitatum on orange fruits with calcium chloride dipping. Journal of Microbiology Research and Reviews, 2(6), 54-61.

El-Hammady, A. M., Abdel-Hamid, N., Saleh, M., & Salah, A. (2000). Effect of gibberellic acid and calcium chloride treatments on delaying maturity, quality and storability of" Balady" mandarin fruits. *Arab Universities Journal of Agricultural Sciences*, *8*(3), 755-766.

El-Salhy, A. M., El-Galil, H. A., El-Aal, A. A., & Ali, M. M. (2010). Effect of different nitrogen fertilizer sources on vegetative Growth, nutrient status and fruiting of Balady mandarin trees. *Assiut J. of Agric. Sci*, *41*, 153-170.

El-Salhy, A. M., El-Sese, A. M. A., Badran, M. F., & Gaber, S. H. (2017). Partial Replacement of Nitrogen Fertilization by Humic Acid and Seaweed Extracts in Balady Mandarin Orchards.

El-Sayed, Ennab. (2008). Effect of potassium and malathion spraying on citrus leafminer infection in relation to leaf phenols, proline and the used rootstock of Washington Navel and Valencia orange trees. *J. Agric. Res. Kafr El-Sheikh Univ.*, 34(3):738-758.

Embleton, T.W., Jones, W.W., Platt, R.G., 1975. Plant nutrition and citrus fruit crop quality and yield. HortScience 10,48–50.

Erwin, D. C., & Ribeiro, O. K. (1996). Phytophthora diseases worldwide (p. 592). St. Paul, MN: APS Press, Inc.

Etxeberria, E., Gonzalez, P., Achor, D., & Albrigo, G. (2009). Anatomical distribution of abnormally high levels of starch in HLB-affected Valencia orange trees. Physiological and Molecular Plant Pathology, 74(1), 76-83.

Fake, C. (2004). Fertilizing citrus in the foothills. Horticulture and Small Farms Advisor, Nevada & Placer Counties. Publication Number, 31.

Farag, K. M., Essa, A. A., Nagy, N. M. N., Haikal, A. M., & Attia, S. M. (2014). Influencing of Some Factors on Regreening of "Valencia" Orange Fruits. Adv Plants Agric Res 1 (4): 00022.

Franco, J. C., Suma, P., da Silva, E. B., Blumberg, D., & Mendel, Z. (2004). Management strategies of mealybug pests of citrus in Mediterranean countries. Phytoparasitica, 32(5), 507-522.

Fraps, G. S., & Asbury, S. E. (1928). Commercial Fertilizers 1927-28. Texas FARMER Collection. Bulletin 387

García, P. (2000). Fertigation versus conventional nitrogen fertilization of" Valencia" oranges. *Agrociencia (Montevideo)*, *4*(1), 23-30.

Gassner G., 1940. Untersuchungen uber das "mal secco" oder "Kurutan" der Limonbaume. Phytopathologische Zeitschrift 13: 1-90

Graham, J. H., Timmer, L. W., & Fardelmann, D. (1986). Toxicity of fungicidal copper in soil to citrus seedlings and vesicular-arbuscular mycorrhizal fungi. *Phytopathology*, *76*(1), 66-70.

Grierson, W., & Hatton, T. T. (1977). Factors involved in storage of citrus fruits: A new evaluation. In Proc. Int. Soc. Citriculture (Vol. 1, pp. 227-231).

Hameed, A., Atiq, M., Javed, N., Ahmad, A., & Ahmed, Z. (2019). Progressive Alterations in Mineral Profiling of Citrus Infected with Canker Caused by Xanthomonas Axonopodis Pv. Citri (Hasse). Applied Ecology and Environmental Research, 17(6), 13625-13642

Hammami, A., Ben Mimoun, M., Rezgui, S., & Hellali, R. (2009). A new nitrogen and potassium fertilization management program for clementine mandarin under Mediterranean climate.

Hare, J. D., & Bethke, J. A. (1988). Egg production and survival of the citrus red mite on an artificial feeding system. Entomologia experimentalis et applicata, 47(2), 137-143.

Hare, J., Morse, J., Menge, J., Pehrson, J., Coggins, C., Embleton, T., Jarrell, W., Meyer, J. (1989). Population responses of the citrus red mite and citrus thrips to 'Navel' orange cultural practices. *Environmental entomology* V18(3): 481-488.

Hare, J., Pehrson, J. E., Clemens, T., Menge, J. A., Coggins Jr, C. W., Embleton, T. W., & Meyer, J. L. (1992). Effect of citrus red mite (Acari: Tetranychidae) and cultural practices on total yield, fruit size, and crop value of 'navel'orange: years 3 and 4. Journal of economic entomology, 85(2), 486-495.

He, Z. L., Alva, A. K., Calvert, D. V., Li, Y. C., & Banks, D. J. (1999). Effects of nitrogen fertilization of grapefruit trees on soil acidification and nutrient availability in a Riviera fine sand. *Plant and soil*, *206*(1), 11-19.

He, Z. L., Calvert, D. V., Alva, A. K., Banks, D. J., & Li, Y. C. (2003). Thresholds of leaf nitrogen for optimum fruit production and quality in grapefruit. *Soil Science Society of America Journal*, *67*(2), 583-588.

Hippler, F. W. R., Boaretto, R. M., Quaggio, J. A., & Mattos Jr, D. (2017). Copper in Citrus production: required but avoided. Citrus Res. Technol., 38, 99-106.

Hippler, F. W., Boaretto, R. M., Dovis, V. L., Gomes, G. O., Quaggio, J. A., Quiñones, A., & Mattos-Jr, D. (2017). Revisiting nutrient management for Citrus production: to what extent does molybdenum affect nitrogen assimilation of trees?. *Scientia Horticulturae*, *225*, 462-470.

Hippler, F. W., Cipriano, D. O., Boaretto, R. M., Quaggio, J. A., Gaziola, S. A., Azevedo, R. A., & Mattos-Jr, D. (2016). Citrus rootstocks regulate the nutritional status and antioxidant system of trees under copper stress. Environmental and experimental botany, 130, 42-52.

I.K.A. Ibraham, M.W. Taha, and M.W.A. Hassan. (1985). Resistance of citrus rootstocks to *Tylenchulus semipenetrans* and *Meloidogyne* spp. in Egypt (abstr). J Nematol 17:499, 1985.

Ibrahim M, Ahmed N, Anwar SA, Majeed T. (2007). Effect of micronutrients on citrus fruit yield growing on calcareous soils. In: Advances in Plant and Animal Boron Nutrition, Springer Netherlands. 2007; 179-82.

Jones, W.W., Smith, P.F., 1964. Nutrient deficiencies in citrus. In: Sprague, H.B. (Ed.), Hunger Signs in Crops. D. McKay Co, New York, pp. 359–414

Kapyampakeni, D., Duncan, L. (2019). 2019–2020 Florida Citrus Production Guide: Best Management Practices for Soil-Applied Agricultural Chemicals. Publication #HS-185

Kawase, S., Hirose, K. (1981). Use of growth regulators to control rind puffing in Satsuma mandarin fruit. Proceedings International Society of Citriculture, 237–239.

Khalid, M. S. (2013). *Kinnow Mandarin (Citrus Reticulata Blanco) Fruit Quality In Major Production Districts And Strategies For Cosmetic Improvement* (Doctoral dissertation, University of Agriculture, Faisalabad (Pakistan)).

Klotz, De Wolfe, Wong. (1958). Decay of fibrous roots of citrus. Phytopathology 48:616–622.

Koo, R. C. J., Young, T. W., & Reese, R. L. (1973). RESPONSES OF'BEARSS'LEMON TO NITROGEN/POTASSIUM AND IRRIGATION APPLICATIONS12.

Kruger, F.J., Penter, M.G., Masevhe, M.R. And Combrink, N.K. (2005). The use of fruit mineral content as a tool to investigate the epidemiology of citrus rind disorders. April/May:54-59

Kuraokat, Iwasaki, Hino, Tsuji. (1975). Studies on the peel puffing of the satsuma mandarin III. The conversion of pectic substances and calcium distribution within the peel. J. Japan. Soc. Hort. Sci. 44 : 15-21. (In Japanese)

Labuschagne, N., & Kotze, J. M. (1988). Factors affecting feeder root rot of citrus caused by Fusarium solani. In *Citriculture: proceedings of the Sixth International Citrus Congress: Middle-East, Tel Aviv, Israel, March 6-11, 1988/scientific editors, R. Goren and K. Mendel, editor, N. Goren*. Rehovot, Israel: Balaban, c1989

Ladaniya, M.S. (2008). Citrus fruit; Biology, Technology and Evaluation. Academic press, United States of America

Lawless, W.W. & Camp, A.F., (1940). Preliminary reports on varieties, and other factors as influencing cold resistance in citrus. Proc. Fla. State Horticul. Soc., 53: 120-25.

Lea-Cox, J. D., & Syvertsen, J. P. (1996). How nitrogen supply affects growth and nitrogen uptake, use efficiency, and loss from citrus seedlings. Journal of the American Society for Horticultural Science, 121(1), 105-114

Li, Y. J., Yang, M., Zhang, Z. Z., Li, W. L., Guo, C. Y., Chen, X. P., ... & Zhang, Y. Q. (2019). An ecological research on potential for zero-growth of chemical fertilizer use in citrus production in China. *Ekoloji*, *28*(107), 1049-1059.

Li, Y., Han, M. Q., Lin, F., Ten, Y., Lin, J., Zhu, D. H., ... & Chen, L. S. (2015). Soil chemical properties,'Guanximiyou'pummelo leaf mineral nutrient status and fruit quality in the southern region of Fujian province, China. Journal of soil science and plant nutrition, 15(3), 615-628.

Liao, L., Dong, T., Liu, X., Dong, Z., Qiu, X., Rong, Y., ... & Wang, Z. (2019). Effect of nitrogen supply on nitrogen metabolism in the citrus cultivar ‘Huangguogan’. *PloS one*, *14*(3).

Liao, L., Fu, J. L., Dong, T. T., Qiu, X., Rong, Y., Liu, X. Y., ... & Wang, Z. H. (2019). Effects of nitrogen supply on the photosynthetic capacity of the hybrid citrus cultivar ‘Huangguogan’. *PHOTOSYNTHETICA*, *57*(2), 581-589.

Magwaza, L. S. (2008). A preliminary study on the effect of climatic conditions and fruit mineral concentration on the development of lenticel damage in 'Tommy Atkins' and 'Keitt' mangos (Mangifera indica L.) and rind pitting in 'Benny Valencia'oranges (Citrus sinensis) (Doctoral dissertation).

Malik, N. S., Perez, J. L., Patt, J. E., Zibilske, L. M., & Mangan, R. L. (2012). Increased infestation of Asian citrus psyllids on cold treated sour orange seedlings: Its possible relation to biochemical changes in leaves. Journal of Food, Agriculture & Environment, 10(2), 424-429.

Malik, N. S.A, Perez, J. L, Patt, J. E, Zibilske, L. M, & Mangan, R. L. (2012). Increased infestation of Asian citrus psyllids on cold treated sour orange seedlings: Its possible relation to biochemical changes in leaves. *Journal of food, agriculture & environment*, *10*, 424

Mann, K., Schmann, A., Spann, T. (2011). Balanced Mineral Nutrition Decreases Greasy Spot Incidence in Citrus. In Proceedings of the Florida State Horticultural Society (Vol. 124, pp. 123-130)

Manner, H. I., Buker, R. S., Smith, V. E., Ward, D., & Elevitch, C. R. (2006). Citrus (citrus) and Fortunella (kumquat). *Species Profile Pac. Isl. Agrofor*, *2*, 1-35

Marais, L. J. (2015). Efficacy of water soluble silicon in managing Fusarium dry root rot of citrus. Acta Hortic, 1065, 993-999

Marinari, S., Masciandaro, G., Ceccanti, B., & Grego, S. (2007). Evolution of soil organic matter changes using pyrolysis and metabolic indices: a comparison between organic and mineral fertilization. Bioresource technology, 98(13), 2495-2502

Masaoka, Y., Pustika, A., Subandiyah, S., Okada, A., Hanundin, E., Purwanto, B., ... & Iwanami, T. (2011). Lower concentrations of microelements in leaves of citrus infected with'Candidatus Liberibacter asiaticus

Matichenkov V.V., Calvert D.V., Snyder G.H. (2000) Prospective of silicon fertilization for citrus in Florida. Proceedings of the Soil and Crop Science Society of Florida, 59, 137–141.

Matichenkov, Bocharnikova, Calvert. (2001). Response of Citrus to Silicon Soil Amendments. Proc. Fla. State Hort. Soc. 114:94-97.

Matichenkov, V., Calvert, D., & Snyder, G. (1999). Silicon fertilizers for citrus in Florida. In *Proceedings-Florida State Horticultural Society* (Vol. 112, pp. 5-8).

Mattos Jr., D., Ramos, U.M., Quaggio, J.A., Furlani, P.R., 2010. Nitrogênio e cobre na produção de mudas de citros em diferentes porta-enxertos. Bragantia 69, 135– 147.

Menge, J., Morse, J., Hare, D., Coggins, C., Pehrson, J., Meyer, J., ... & Takele, E. (1990). IPM Integrated crop management increases citrus growth and yields. California Agriculture, 44(5), 11-11.

Migheli, Q., Cacciola, S. O., Balmas, V., Pane, A., Ezra, D., & di San Lio, G. M. (2009). Mal secco disease caused by Phoma tracheiphila: a potential threat to lemon production worldwide. *Plant disease*, *93*(9), 852-867.

Mirzaee, M. R., Mohammadi, M., & Nasrabad, A. A. (2009). Relative susceptibility of citrus genotypes to fruit rot caused by Ceratocystis radicicola in Iran. *Tropical Plant Pathology*, *34*(5), 329-332

Moran, V. C., & Buchan, P. R. (1975). Oviposition by the citrus psylla, Trioza erytreae (Homoptera: Psyllidae), in relation to leaf hardness. Entomologia experimentalis et applicata, 18(1), 96-104.

Morgan, K., Kadyampakeni, D., Zekri, M., Shumann, A., Vashisth, T., Obreza, T. (2019). 019–2020 Florida Citrus Production Guide: Nutrition Management for Citrus Trees. Publication #CMG13 [Online]. http://edis.ifas.ufl.edu/cg091

Morrow, J. L., Sa, P. T., Beattie, G. A., Milham, P. J., Riegler, M., Spooner-Hart, R. N., & Holford, P. (2019). Additions of sugar and nitrogenous fertiliser affect plant nitrogen status and soil microbial communities. *Applied Soil Ecology*, *139*, 47-55.

Mostefaoui, H., Allal-Benfekih, L., Djazouli, Z. E., Petit, D., & Saladin, G. (2014). Why the aphid Aphis spiraecola is more abundant on clementine tree than Aphis gossypii?. Comptes rendus biologies, 337(2), 123-133.

Mozafar A. (1993). Nitrogen fertilizers and the amount of vitamins in plants: A review. Journal of Plant Nutrition 16 (12): 2 479– 6.

Mustaqeem, M., Bokhari, S. A., Asif, S., Khan, M. R., Waqas, A., & Ahmed, H. (2014). Association of Citrus Leaf Miner, Phyllocnistis citrella (Lepidoptera: Gracillariidae: Phyllocnistinae) with Leaf Biochemical Factors (Ca, K and Mg) in Kinnow Leaves of District Sargodha, Punjab, Pakistan. Pakistan J. Zool, 46(4), 953-958.

Nadeem, F., Hanif, M. A., Majeed, M. I., & Mushtaq, Z. (2018). Role of Macronutrients and Micronutrients in the Growth and Development of Plants and Prevention of Deleterious Plant Diseases–A Comprehensive Review. *IJCBS, 14(2018):1-22*

Navarro, J. M., & Morte, A. (2019). Mycorrhizal effectiveness in Citrus macrophylla at low phosphorus fertilization. *Journal of plant physiology*, *232*, 301-310.

Nega, A., Getu, E., & Hussein, T. (2014). Integrated Management of Woolly Whitefly [Aleurothrixus Floccusus (Maskell) Homoptera: Aleyrodidae] on Citrus at Adama, East Shewa Zone, Ethiopia. Journal of Biology, Agriculture and Healthcare, 4(23), 8-21.

Onillon JC, Onillon J, Brun P, Franco E, Decoux G. (1985). Effect of fertilizer on the population level of the citrus white-fly Dialeurodes citri (Homoptera, Aleyrodidae). In: Cavalloro R, Di Martino E, Eds. Proceedings of the Experts' Meeting " Integrated pest control in citrus-orchards"; 1985: Rotterdam: Balkema 1986; pp. 109-20.

Pande, Y. D. (1972). Seasonal fluctuations in the abundance and host preference of Diopharina citri Kuw. in relation to certain species of citrus. Indian. J. agric. Res, 6, 51-4.

Pavan, M. A., & Wutscher, H. K. (1993). Accumulation of nutrients at the surface of roots of blight-affected orange trees. *Communications in soil science and plant analysis*, *24*(9-10), 979-987.

Peltier, G. L. (1918). Susceptibility and Resistance to Citrus-canker of the Wild Relatives, Citrus Fruits, and Hybrids of the Genus Citrus: Preliminary Paper. US Government Printing Office

Pustika, A. B., Subandiyah, S., Holford, P., Beattie, G. A. C., Iwanami, T., & Masaoka, Y. (2008). Interactions between plant nutrition and symptom expression in mandarin trees infected with the disease huanglongbing. Australasian Plant Disease Notes, 3(1), 112-115.

Quaggio, J. A., Mattos, D., Cantarella, H., Almeida, E. L. E., & Cardoso, S. A. B. (2002). Lemon yield and fruit quality affected by NPK fertilization. Scientia Horticulturae, 96(1–4), 151–162.

Rabe, E., & Lovatt, C. J. (1986). Increased arginine biosynthesis during phosphorus deficiency: a response to the increased ammonia content of leaves. Plant Physiology, 81(3), 774-779.

Raciti G., Cutuli G., Intrigliolo F., Giuffrida A., 1990. Indagini sull'influenza delle tecniche colturali sul mal secco degli agrumi. L'Informatore Agrario 41: 61-64.

Rajani, Ashokkumar. (2019). Chapter 4: Soil Organic Matter. 10.13140/Rg.2.2.19679.00167. [Online].https://www.researchgate.net/profile/Ashokkumar_Rajani/publication/335835145_CHAPTER_4_SOIL_ORGANIC_MATTER/links/5d7f5c3692851c87c38b3862/CHAPTER-4-SOIL-ORGANIC-MATTER

Razzaq, K., Khan, A. S., Malik, A. U., Shahid, M., & Ullah, S. (2013). Foliar application of zinc influences the leaf mineral status, vegetative and reproductive growth, yield and fruit quality of 'Kinnow'mandarin. *Journal of plant nutrition*, *36*(10), 1479-1495.

Ashraf, M. Y., Ashraf, M., Akhtar, M., Mahmood, K., & Saleem, M. (2013). Improvement in yield, quality and reduction in fruit drop in kinnow (Citrus reticulata blanco) by exogenous application of plant Growth regulators, potassium and zinc. *Pak. J. Bot*, *45*(S1), 433-440.

Reese, R.L. and R.C.J. Koo. (1975). Effect of N and K fertilization on internal and external fruit quality of three major Florida orange cultivars. J. Am. Soc. Hort. Sci. 100: 425- 428

Reuther, W. & Smith, P.F., (1952). Relation of nitrogen, potassium and magnesium fertilization to some fruit qualities of 'Valencia' orange. Proc. Amer. Soc. Hart. Sci. 59, 1-12.

Ruggieri G., 1948. Fattori che condizionano e contribuiscono allo sviluppo del "mal secco" degli Agrumi e metodi di lotta contro il medesimo. Annali della Sperimentazione Agraria 2: 255-305.

Salahi Ardakani, A., Tanha Mafi, Z., Mokaram, A., & Mohammadi Goltapeh, E. (2014). Relationship between soil properties and abundance of Tylenchulus semipenetrans in citrus orchards, Kohgilouyeh va Boyerahmad Province. Journal of Agricultural Science and Technology, 16, 1699-1710.

Smoot, J. Houck, L., Johnson, H. (1971). Market Diseases of Citrus and Other Subtropical Fruits. Agriculture Handbook No. 398. Agricultural Research Service, United States Department of Agriculture

Salama, H. S., Amin, A. H., & Hawash, M. (1972). Effect of nutrients supplied to citrus seedlings on their susceptibility to infestation with the scale insects Aonidiella aurantii (Maskell) and Lepidosaphes beckii (Newman)(Coccoidea). *Zeitschrift für Angewandte Entomologie*, *71*(1-4), 395-405.

Salama, H. S., El-Sherif, A. F., & Megahed, M. (1985). Soil nutrients affecting the population density of Parlatoria zizyphus (Lucas) and Icerya purchasi Mask.(Homopt., Coccoidea) on citrus seedlings. Zeitschrift für Angewandte Entomologie, 99(1-5), 471-476.

Sallato, B., Bonomelli, C., & Martiz, J. (2017). Differences in quality parameters and nutrient composition in Fukumoto oranges with and without creasing symptoms. *Journal of Plant Nutrition*, *40*(7), 954-963.

Schirra, M., Mulas, M. (1994). Storage of Monreal clementines as affected by CaCl2 and TBZ post harvest treatments" Agricoltura Mediterranean. Vol 124 (4), pp 238-248

Schumann, A., Vashisth, T., Spann, T. (2017). Mineral Nutrition Contributes to Plant Disease and Pest Resistance. Horticultural Sciences Department, University of Florida, IFAS extension. Bulletin HS1181 [Online] https://edis.ifas.ufl.edu/pdffiles/HS/HS118100.pdf

Serikawa, R. H., Backus, E. A., & Rogers, M. E. (2013). Probing behaviors of adult Asian citrus psyllid (Hemiptera: Liviidae) are not appreciably affected by soil application of field-rate aldicarb to citrus. *Florida Entomologist*, *96*(4), 1334-1343.

Sinha, A. K., & Neog, P. P. (2003). Effect of different levels of NPK fertilizers against citrus nematode (Tylenchulus semipenetrans) on Khasi mandarin. *Indian Journal of Nematology*, *33*(1), 61-62.

Smith, P. F. (1975). Zinc accumulation in the wood of citrus trees affected with blight. *Proceedings of the Florida State Horticultural Society 1974*, *87*, 91-95.

Smith, P.F., Scudder J.R., G K & Hrnciar, G., (1969). Nitrogen rates and time of application on yield and quality of 'Pineapple' orange and 'Marsh' grapefruit. Proc. Fla. State Hart. Soc. . 82,20-25.

Smoot, J. J., Houck, L. G., & Johnson, H. B. (1971). *Market diseases of citrus and other subtropical fruits* (No. 398). US Agricultural Research Service.

Sorribas, F. J., Verdejo-Lucas, S., Pastor, J., Ornat, C., Pons, J., & Valero, J. (2008). Population densities of Tylenchulus semipenetrans related to physicochemical properties of soil and yield of clementine mandarin in Spain. *Plant disease*, *92*(3), 445-450.

Spann, T. M., & Schumann, A. W. (2009). The role of plant nutrients in disease development with emphasis on citrus and huanglongbing. In *Proc. Fla. State Hort. Soc* (Vol. 122, pp. 169-171).

Spann, T. M., Schumann, A. W., Rouse, B., & Ebel, B. (2011). Foliar nutrition for HLB. Citrus Industry, 92, 6-10.

Srivastava, A. K., & Singh, S. (2005). Soil and plant nutritional constraints contributing to citrus decline in Marathwada region, India. *Communications in Soil Science and Plant Analysis*, *35*(17-18), 2537-2550.

Srivastava, A. K., & Singh, S. (2005). Zinc nutrition, a global concern for sustainable citrus production. Journal of Sustainable Agriculture, 25(3), 5-42

Srivastava, A. K., Singh, S., & Albrigo, L. G. (2008). Diagnosis and remediation of nutrient constraints in citrus. Horticultural Reviews-Westport Then New York-, 34, 277.

Srivastava, J. N., Sharma, P. K., Dutta, U., Srivastava, A. K., & Kumar, R. (2015). Nutritional disorders of citrus and their management. In Recent Advances in the Diagnosis and Management of Plant Diseases (pp. 285-294). Springer, New Delhi.

Sternlicht, M., Regev, S., & Goldenberg, S. (1975). Effect of chemical element deficiencies in nutrient solutions on the reproduction of Aceria sheldoni (Ewing)(Acarina, Eriophyidae). Bulletin of Entomological Research, 65(3), 433-442

Sternlicht, M., Regev, S., & Goldenberg, S. (1975). Effect of chemical element deficiencies in nutrient solutions on the reproduction of Aceria sheldoni (Ewing) (Acarina, Eriophyidae). Bulletin of Entomological Research, 65(3), 433-442

Steyn, J.J., 1951. The effect of low calcium, phosphorus or nitrogen on the lifecycle of red scale (*Aonidiella aurantii* Mask.). J. Entomol. Soc. S. Africa, 14: 165--170.

Storey, R., Treeby, M. T., & Milne, J. (2002). Crease: another Ca deficiency-related fruit disorder? *The Journal of Horticultural Science and Biotechnology*, *77*(5), 565-571.

Syvertsen, J., & Levy, Y. (2005). Salinity interactions with other abiotic and biotic stresses in citrus. HortTechnology, 15(1), 100-103.

Tahori, A. S., & Hazan, A. (1970). Rearing of the black citrus aphid Toxoptera aurantii on chemically defined diets. *Journal of Insect Physiology*, *16*(10), 1975-1981

Talibi, I., Askarne, L., Boubaker, H., Boudyach, E. H., & Aoumar, A. A. B. (2011). In vitro and in vivo antifungal activities of organic and inorganic salts against citrus sour rot agent Geotrichum candidum. Plant Pathol. J, 10, 138-145

Taranovskaia, V.G. 1940. The role of silicication for citrus, tunga and siderates. Soviet Subtropics 5:38-43.

Thind, S. K. (2017). Principles of disease management in fruit crops. *Int Clin Pathol J*, *4*(5), 1-17.

Tian, S. P., Fan, Q., Xu, Y., & Jiang, A. L. (2002). Effects of calcium on biocontrol activity of yeast antagonists against the postharvest fungal pathogen Rhizopus stolonifer. Plant Pathology, 51(3), 352-358

Timmer L.W., P.D. Roberts, K.-R. Chung and A. Bhatia, (2001). Alternaria Brown Spot. Publication Number, SP-152, University of Florida, IFAS, EDIS, Gainesville.

Timmer, L. W., & Zitko, S. E. (1995). Evaluation of nutritional products and fungicides for control of citrus greasy spot. In Proceedings of the Florida State Horticultural Society (No. 108, pp. 83-87).

Torigatah, Masui, Suzuki. (1955). Studies on the development of fruit rind of Unshyu orange. I. Effects of nitrogen fertilized in late summer. Studies from the Institute of Horticulture Kyoto Univ. Vol. VII, 42-48. (In Japanese)

Treeby, M. T., & Storey, R. (2002). Calcium-spray treatments for ameliorating albedo breakdown in navel oranges. *Australian Journal of Experimental Agriculture*, *42*(4), 495-502

Tsagkarakis, A., Perdikis, D., & Lykouressis, D. (2011). Seasonal Abundance and within tree Spatial Distribution of Phyllocnistis citrella (Lepidoptera: Gracillariidae). Entomologia Generalis, 33(3), 165.

Ullah S, Khan A., Malik A., Afzal, Shahid M, Razzaq K. (2012). Foliar application of boron influences the leaf mineral status, vegetative and reproductive growth, yield and fruit quality of 'Kinnow' mandarin (Citrus reticulata Blanco.). Journal of Plant Nutrition. No. 35:2067-2079.

Verstraeten, et al. (Eds). (2011). Proc. XXVIIIth IHC-IS on Engineering, Modelling, Monitoring, Mechanization and Automation Tools for Precision Hort. Acta Hort. 919, ISHS 2011

Vieira, D. L., V. B. Oliveira, W. C. O. Souza, J. G. Silva, J. B. Malaquias and J. B. Luna (2016). Potassium silicate induced resistance against blackfly in seedlings of Citrus reticulata. Fruits, 71(1): 49-55

Wang, X., Wang, P., Qi, Y., Zhou, C., Yang, L., Liao, X., ... & Chen, L. (2014). Effects of granulation on organic acid metabolism and its relation to mineral elements in Citrus grandis juice sacs. Food chemistry, 145, 984-990.

Whiteside J., (1976). A newly recorded Alternaria-induced brown spot disease on Dancy tangerines in Florida. Plant Disease Reporter 60, 326–329.

Wutscher, H. (1989). Soil pH and extractable elements under blight-affected and healthy citrus trees on six Florida soils. *Journal of the American Society for Horticultural Science (USA)*.

Youpensuk, S., Lordkaew, Rerkasem, B. (2008). Arbuscular mycorrhizal fungi associated with tangerine (Citrus reticulata) in Chiang Mai province, northern Thailand, and their effects on the host plant. Science Asia 34:259–264

Youssef, K., Ligorio, A., Pentimone, I., Nigro, F., Ippolito, A., Yaseen, T. (2008). Studies on application strategy of salts for controlling Penicillium rot of Valencia late oranges. In: Proc. 11th International Citrus Congress, vol. 2, Wuhan, China, pp.1276–1280.

Youssef, K., Ligorio, A., Sanzani, S, Nigro, F., Ippolito, A. (2012). Control of storage diseases of citrus by pre-and postharvest application of salts. Postharvest biology and technology, 72, 57-63.

Zaman, Q. U., A. W. Schumann, and W. M. Miller. (2005). Variable rate nitrogen application in Florida citrus based on ultrasonically sensed tree size. Applied Engineering in Agriculture 21 (3):331–35. doi:10.13031/2013.18448.

Zambon, F. T., Kadyampakeni, D. M., & Grosser, J. W. (2019). Ground Application of Overdoses of Manganese Have a Therapeutic Effect on Sweet Orange Trees Infected with Candidatus Liberibacter asiaticus. *HortScience*, *54*(6), 1077-1086.

Zhuang, Y.M. (1994). Citrus Nutrition and Fertilizeration. China Agriculture Press, Beijing, China.