Jordan University of Science and Technology



Faculty of Agriculture

Department of Plant Production

Curriculum Vitae

Name: Ibrahim M. Makhadmeh, Ph.D., Plant Production and Resources Horticulture/Vegetables.



Nationality: Jordanian

Date of Birth: Dec. 16, 1962

Place of Birth: Ramtha, Jordan

Present academic rank: Associate Professor

Address: Department of Plant Production

Faculty of Agriculture

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Biographical Data:

<u>Vice Dean – College of Agriculture</u>, Jordan University of Science and

Technology, Irbid-Jordan (2012 – present)

<u>Vice Dean</u>- Deanship of Student Affairs, Jordan University of Science and Technology, Irbid-Jordan (2009- 2010)

<u>Assistant Dean</u>- Deanship of Student Affairs, Jordan University of Science and Technology, Irbid-Jordan (2008- 2009)

<u>Associate Professor-</u> Department of Plant Production, Faculty of Agriculture, Jordan University of Science and Technology, Irbid-Jordan (2008). <u>Department Head-</u> Department of Plant Production, Jordan University of Science and Technology. Irbid-Jordan. (2004 till 2006)

<u>Assistant Dean</u>- Faculty of Agriculture, Jordan University of Science and Technology, Irbid-Jordan (2002-2004).

<u>Assistant Professor-</u> Department of Plant Production, Faculty of Agriculture, Jordan University of Science and Technology, Irbid-Jordan (August, 7, 2000).

<u>Ph.D.-</u> Mississippi State University, Starkville, MS, USA. 1/96-5/2000. *Dissertation:* Reduction of Chilling Injury in Sweet Potato (*Ipomea batata* Lam.)

<u>M.Sc.-</u> University of Jordan-Amman, Jordan. 10/86-6/90.

Thesis: Effects of different factors on germination, establishment, growth and monthly variation in chemical composition of different *Atriplex* species in Mwaqar.

B. Sc. in Horticulture, University of Sallah Edden, Irbel, Iraq.1985

Previous Employment:

- Graduate Research Assistant, Mississippi State University. 1998-2000
- Research and Teaching Assistant, Department of Plant Production, Jordan University of Science and Technology 1991-1995
- Research Assistant, Department of Plant Production, University of Jordan 1986-1988

Publications:

- 1. **Ibrahim M Makhadmeh**, Ammar Albalasmeh, Mohammed Ali, Samar G Thabet, Walaa Darabseh, Saied Jaradat and Ahmad M Alqudah. **2022**. Molecular characterization of tomato (Solanum lycopersicum L.) accessions under drought stress. Horticulturae, 8:600. https://doi.org/10.3390/horticulturae8070600.
- 2. **Ibrahim M Makhadmeh**, Samar G Thabet, Mohammed Ali, Basmah Alabbadi, Ammar Albalasmeh, Ahmad M Alqudah. **2022**. Exploring genetic variation among Jordanian Solanum lycopersicon L. landraces and their performance under salt stress using SSR markers. Journal of Genetic

- Engineering and Biotechnology, 20:45 https://doi.org/10.1186/s43141-022-00327-2.
- 3. **Ibrahim Makhadmeh**, Khaled Abu Rashed, Ammar A Albalasmeh. **2022**. Treated wastewater as a partial nutrient source for Lily grown in a soilless system in presence of Arbuscular Mycorrhizal Fungi. International journal of recycling organic waste in agriculture, https://doi.org/10.30486/IJROWA.2022.1950291.1405.
- 4. **Ibrahim M Makhadmeh**, Seba F Gharaiebeh, Ammar A Albalasmeh. **2021**. Impact of Irrigation with Treated Domestic Wastewater on Squash (Cucurbita pepo L.) Fruit and Seed under Semi-Arid Conditions. Horticulturae 7, 226; https://doi.org/10.3390/horticulturae7080226.
- Nezar H. Samarah, Mu'awia M. Bany Hani, Ibrahim M Makhadmeh. 2021. Effect of Magnetic Treatment of Water or Seeds on Germination and Productivity of Tomato Plants under Salinity Stress. Horticulturae, 7, 220; https://doi.org/10.3390/horticulturae7080220.
- 6. Ahmad M Al-Far, Maher J Tadros, **Ibrahim M Makhadmeh**. **2019**. Evaluation of different soilless media on growth, quality, and yield of cucumber ('Cucumis sativus' L.) grown under greenhouse conditions. Australian Journal of Crop Science 13: 1388-1400 https://doi:10.21475/ajcs.19.13.08.p2122.
- 7. Abdel Razzaq Al-Tawaha, Ghazi Al-Karaki, Abdel Rahman Al-Tawaha, Sitti Nurani Sirajuddin, **Ibrahim Makhadmeh**, Puteri Edaroyati Megat Wahab, Refat A Youssef, Wael Al Sultan, Adnan Massadeh. **2018**. Effect of water flow rate on quantity and quality of lettuce (Lactuca sativa L.) in nutrient film technique (NFT) under hydroponics conditions. Bulgarian Journal of Agricultural Science, 24: 791-798.
- 8. **Ibrahim M Makhadmeh**, Abdelrazzaq Al-Tawaha, Puteri Edaroyati, Ghazi Al-Karaki, Abdel Rahman Al Tawaha, Siti Aishah Hassan. **2017**. Effects of different growth media and planting densities on growth of lettuce grown in a closed soilless system. Research on Crops, 18: 294-298.
- 9. Wesam Al Khateeb, May Abu Serdane, Ahmad El-Oqlah, **Ibrahim Makhadmeh**. **2016**. Evaluation of in Vitro Salt Tolerance in

- Cucumis prophetarum L., A Crop Wild Relative. Jordan Journal of Agricultural Sciences, 12: 1095-1113.
- 10. Tareq M Osaili, Abbas F Al Jamali, **Ibrahim M Makhadmeh**, Mohammad Taha, Sukiena K Jarrar. **2016**. Heavy metals in vegetables sold in the local market in Jordan. Food Additives & Contaminants: Part B, 9:223-229.
- 11. Laith M Rousan, **Ibrahim M Makhadmeh**, Hussein S Abu-Alsheeh. **2016**. Adoption of Integrated Pest Management (IPM) Practices to Control Capnodes Pests on Stone Fruit Trees in Irbid Governorate in Jordan. Jordan Journal of Agricultural Sciences, 12: 521-533.
- 12. Firas Abu-El Samen, Saba J Goussous, Anas Al-Shudifat, **Ibrahim Makhadmeh**. **2016**. Reduced sensitivity of tomato early blight pathogen (Alternaria solani) isolates to protectant fungicides, and implication on disease control. Archives of Phytopathology and Plant Protection, 49: 120-136.
- 13. Firas Abu-El Samen, SJ Goussous, AA Jendi, **IM Makhadmeh**. **2015**. Evaluation of tomato early blight management using reduced application rates and frequencies of fungicide applications. International journal of pest management, 61:320-329.
- 14. Nidal Q Daradkeh, Rida A Shibli, **Ibrahim M Makhadmeh**, Feras Alali, Tamara S Al-Qudah. **2012**. Callus Culture and Somatic Embryogenesis in Wild (Colchicum Hierosolymitanum Feib.). Jordan Journal of Agricultural Sciences, 8: 536-555.
- 15. Aktham Abu-Khadejeh, Rida Shibli, **Ibrahim Makhadmeh**, Munir Mohammad. **2012**. Influence of Increased Salinity on Physiological Responses of Hydroponic Grown Tomato\Lycopersicon Esculentum Mill. Jordan Journal of Agricultural Sciences, 8: 321-331.
- 16. Hana J Al-Mahmood, Mohamad A Shatnawi, Rida A Shibli, Ibrahim M Makhadmeh, Samih M Abubaker, Ahmed N Shadiadeh. **2012**. Clonal propagation and medium-term conservation of Capparis spinosa: a medicinal plant. Journal of Medicinal Plants Research, 6: 3826-3836.
- 17. Hmoud S Al-Debei, **Ibrahim Makhadmeh**, Ibrahim Abu-Al Ruz, Ayed M Al-Abdallat, Jamal Y Ayad, Noor Al Amin. **2012**. Influence

- of different rootstocks on growth and yield of cucumber (Cucumis sativus L.) under the impact of soil-borne pathogens in Jordan. Journal of Food, Agriculture & Environment, 10: 343-349.
- 18. SA Azzam, NS Karam, KM Hameed, SJ Goussous, AD Maraqa, IM Makhadmeh. 2012. Investigation of indigenous plant root associated bacteria and yeast isolates for plant growth promoting ability. Jordan Journal of Agricultural Sciences, 8: 1-13.
- 19. Nidal Q Daradkeh, Rida A Shibli, **Ibrahim M Makhadmeh**, Feras Alali, Tamara S Al-Qudah. **2012**. Cell suspension and in vitro production of colchicine in wild colchicum hierosolymitanum Feib. The Open Conference Proceedings Journal, 3: 52-59.
- 20. Savinaz H Baghdadi, Rida A Shibli, Maha Q Syouf, Mohammad A Shatnawai, Arabia Arabiat, **Ibrahim M Makhadmeh**. 2011. Medium term preservation of wild Crocus (Crocus hyemalis and Crocus moabiticus) embryogenic callus. Jordan Journal of Agricultural Sciences, 7: 1-28.
- 21. Khaled W. Nazzal, Rida A. Shibli, **Ibrahim M. Makhadmeh** and Maha Q. Syouf. **2011**. Amplified Fragment Length Polymorphism (AFLP) Analysis in Crocus spp. Collected from Northern Jordan. Jordan Journal of Agricultural Sciences, 7: 1-8.
- 22. Aktham Abu-Khadejeh, **Ibrahim Makhadmeh**, Rida A. Shibli and Munir J. Mohammad. **2011**. Physiological Responses of Tomato Microshoot Cultures to in vitro Induced Salinity Stress. Jordan Journal of Agricultural Sciences, 7: 260-272.
- 23. Rida A. Shibli, Aktham Abu-Khadejeh, Ibrahim Makhadmeh and Munir J. Mohammad. 2011. Growth and Physiological Responses of Tomato (Lycopersicon esculentum Mill.) Callus and Cell Suspension to in Vitro Induced Salinity. Jordan Journal of Agricultural Sciences, 7: 300-311.
- 24. S. H. Baghdadi, R. A. Shibli, M. Q. Syouf, M. A. Shatanawi4, A. Arabiat, and I. M. Makhadmeh. **2010**. Cryopreservation by Encapsulation-vitrification of Embryogenic Callus of Wild Crocus (Crocus hyemalis and Crocus moabiticus) (Research Note) Jordan Journal of Agricultural Sciences, 6: 436-443.

- 25. Azzam, S. A.; Karam, N. S.; Hameed, K. M.; Goussous, S. J.; Makhadmeh, I. M.; Maraqa, A. D. **2010**. Enhanced Growth of Marigold (Tagetes erecta L.) Upon Inoculation with Selected Indigenous Isolates of Bacteria and Yeast. (S14.018) 28th International Horticultural Congress. Lisboa
- 26. **Ibrahim Makhadmeh**, Siham Al-Lozi, Mahmud Duwayri, Rida A. Shibli and Hussein Migdadi. **2010**. Assessment of Genetic Variations in Wild Arum Species from Jordan Using Amplified Fragment Length Polymorphism (AFLP) Markers. Jordan Journal of Agricultural Sciences, 6: 224-239.
- 27. Hani Ghosheh, Mohammad Al-Kawamleh, **Ibrahim Makhadmeh**. **2010**. Weed Competitiveness and Herbicidal Sensitivity of Grafted Tomatoes (Solanum Lycopersicon Mill.). Journal of Plant Protection Research, 50: 307-313.
- 28. Rida A. Shibli, Nidal Q. Daradkah, **Ibrahim M. Makhadmeh** and Savinaz H. Baghdadi. **2010**. Colchicine Production from Colchicum and the Role of in vitro Cultures: A Review. Jordan Journal of Agricultural Sciences, 6: 208- 223
- M. Shatnawi, A. Fauri, R. Shibli, M. Al-Mazraawi, H. Megdadi and I. Makhadmeh. 2009. Tissue Culture and Salt Stress in Chrysanthemum morifolium. Acta Hort. 829, ISHS 189-194
- 30. R. Shibli1, S. Baghdadi, M. Syouf, M. Shatnawi, A. Arabiat and I. Makhadmeh. 2009. Cryopreservation by Encapsulation–Dehydration of Embryogenic Callus of Wild Crocus (Crocus hyemalis and C. moabiticus) Acta Hort. 829, ISHS 197-204.
- 31. **Ibrahim Makhadmeh**, E. Taye, R. Shibli and G. Al-Karaki. **2008**. Nodulation and morphological responses of Faba bean (*Vicia faba*) to water stress. American-EuroAsian journal of Agricultural and Environmental Sci. 4(5): 646-654.
- 32. **Ibrahim Makhadmeh** and M. Shatnawi. **2008**. In vitro propagation of threatened *Pimelea spacata* from mature plant material. Adv. Hort. Sci., 22(3). 212-217.
- 33. Siham Al-Lozi, **Ibrahim Makhadmeh**, Mahmud Duwayri, Rida Shibli and Hussein Migdadi. **2008**. Assessment of Phenotypic

- Variation of Arum Species in Jordan. Jordan Journal of Agricultural Sciences, 4: 367-379.
- 34. Mohamad Shatnawi, N. Frehat, **I. Makhadmeh**, R. Shibli and A. Abu Ein. **2007**. Influence of sugar source on growth and sugar uptakes of *in vitro* grown wild pear (*Pyrus syriaca*). Adv. Hort. Sci., 21(3): 133-140.
- 35. Ahmad Ztaimeh, R. Shibli, Nabeela Karam and **Ibrahim Makhadmeh**. **2007**. Physiological responses of Muskmelon
 (*Cucumis melo* L.) to NaCl salinity *in vitro* and hydroponic cultures.
 Jordan Journal of Agricultural Sciences, 3 (3):213-221.
- 36. Hail Shannag, Jafar Al-Quda, **Ibrahim Makhadmeh** and N. Freihat. **2007**. Differences in growth and yield responses to *Aphis gossypii* between different Okra varieties. Plant Protect. Sci. 43: 109-116.
- 37. Naji Ebrahim, Rida Shibli, **Ibrahim Makhadmeh**, M. Shatnawi and A. Abu-Ein. **2007**. In vitro propagation and In vivo acclimatization of three coffee cultivars (*Coffea Arabica* L.) from Yemen. World Applied Science Journal, 2(2): 142-150.
- 38. Hail Shannag, **Ibrahim Makhadmeh**, Jafar Al-Quda. **2006**. Impact of *Aphis gossypii* Glover (Homoptera: Aphididae) on growth rate of Okra plants (*Abelmoschus esculentus* L.). Belgian Journal of Entomology 8: 83-90.
- 39. Hani Saoub, M. El-Shatnawi, **I. Makhadmeh**, N. Haddad and F. Aukour. **2005**. Clipping of Avena sterilis under sub-humid Mediterranean condition. Crop Res. 29(1): 77-86.
- **40.** Mai M. Abu-Shama, Rida A. Shibli, Khalil I. Ereifej and **Ibrahim M. Makhadmeh**. **2005**. Growth and physiological responses of tomato landrace 'Rohaba' (*Lycopersicon esculentum* Mill.) to in Vitro induced water deficit. Jordan Journal of Agricultural Sciences. 1:107-118.
- 41. Abdul-Majeed A. Al-Ghzawi, Shahera T. Zaittoun, **Ibrahim Makhadmeh** and Abdel-Rahman Al-Tawaha. **2005**. The impact of wild bees on the pollination of eight okra genotypes under semi-arid mediterranian conditions. International Journal of Agriculture and Biology, 4:408-410.

- 42. **I. M. Makhadmeh,** and Khalil I. Ereifej. **2004**. Geometric Characteristics and Chemical Composition of Okra (*Hibiscus esculentus* L.) Grown Under Semi-Arid Conditions. International J. of Food Properties. 7: 83-90.
- 43. Moh'd Khair J. El-Shatnawi, Taoufik Ksiksi, **I. M. Makhadmeh** and N. I. Haddad. **2003**. Physiological impacts of increasing global carbon dioxide on terrestrial vegetation-A review. Crop Res. 25 (1) 1-11.
- 44. El-Shatnawi and **I. Makhadmeh. 2002**. Growth and development of wild oat and dual-purpose barley seedlings. J. Agronomy & Crop Science 188:141-145.
- **45.** El-Shatnawi and **I. Makhadmeh**. **2001**. Ecophysiology of the plant-rhizosphere system. J. Agronomy & Crop Science 187: 1-9.

Activities

Teaching:

A. *Undergraduate Courses*:

- Vegetable Production (PP 321)
- Vegetable Production Lab. (PP 321)
- Special Topics in Vegetable Production (PP 492)
- Practical Training 1 & 2. (PP 401; 402)
- Seminar (PP 491)
- Home Gardening (PP 200)

B. Graduate Courses:

- Design and Analysis of Experiments (PP 701; AS 701)
- Advanced Vegetable Production(PP 721)
- Graduate Comprehensive Exams (PP 792)

Graduate Students (Advisor and co-advisor):

- 1. **Alqasem Almakhadmeh**. 2022. Evaluation of the effect of silicon on improving the growth of lettuce in a floating hydroponic system.
- 2. **Muawyah BaniHani**. 2019. Effect of magnetic treatments of seeds or saline water on seed germination seedling growth and productivity of tomato plants.

- 3. **Ahmad Alfar**. 2019. Evaluation of Different Soilless Media on Growth Quality and Yield of two Cucumber Cultivars Cucumis sativus L Grown under Greenhouse Conditions.
- 4. **Abdulrahman Alfawaaz**. 2017. Effect of foliar application of amino acid and micronutrients mixture on growth yield and physiological responses in sweet peppers Capsicum annum L.
- 5. **Seba Gharaibeh**. 2016. Potential uses of Treated Wastewater to irrigate Squash Cucurbita pepo L plants.
- 6. **Osama Meqdadi**. 2016. Genetic Variation among Ruta chalepensis populations from north jordan using morphological assessment and AFLP marker.
- 7. **Khaled Abu-Rashed**. 2015. The effect of Arbuscular Mycorrhiza fungi on tolerance of hybrid lily to salinity in closed soilless culture.
- 8. **Husain Abu-Sheh**. 2014. Adoption of integrated pest management IPM practices by farmers for control of Capnodes on stone fruit trees in Irbid Governorate in Jordan.
- 9. **Christina Bnian**. 2014. Water users associations WUAs performance in irrigation management in northern jordan valley from farmers point of view.
- 10. **Walaa Darabseh**. 2013. Genetic Variation Among Local Tomato Landraces Using Simple Sequence Repeats SSRs and their drought resistance at germination and seedling stages.
- 11. **Ibrahim Abu Ruz**. 2009. Effect of different root stocks on growth, production, and nematode resistant of cucumber (*Cucumis sativus*).
- 12. **Abir Jendi**. 2009. The effect of the application frequency and doses of Mancozeb and Azoxystrobin on the management of Tomato early blight (*Alternaria solani*).
- 13. **Basma Abadi**. 2008. Genetic Variations among Jordanian Local Tomato Landraces using Simple Sequence Repeat (SSR) and their salt tolerance during germination and seedling stage.
- 14. **Mohamad Kawamleh**. 2008. Evaluation of Weed Competitiveness and Herbicidal Sensitivity of Grafted Tomatoes (*Lycopersicon esculentum* Mill).
- 15. **Siham Al-Lozi**. 2007. Phenotypic and Genetic Variation of *Arum* Species in Jordan.
- 16. **Khalid Nazal**. 2007. AFLP Analysis in Crocus species collected from northern Jordan.
- 17. **Mohamad Al-Omoush**. 2007. Gross Chemical Composition, Mineral Content, Phenolics, Anthocyanins and Antioxidants Determination in some Wild Plants with Medicinal Potential from Jordan.
- 18. **Nedal Dradkah**. 2007. Callus, Cell Suspension culture and Colchicine production in Colchicum hierosolymitanum.
- 19. **Basim Essa**. 2006. Comparative responses of eggplant (*Solanum Melongena* L.) microshoots to salinity in vitro and in hydroponic cultures.
- 20. **Emad Shnikat**. 2006. Response of Bell Pepper (*Capsicum annuum* L.) Plant to Carbon Dioxide Enrichment Under Soillless culture Conditions.

- 21. **Hadeel Bataineh**. 2006. Chemical composition and seed germination of *Rhus coriaca* L. collected from Ajlun area.
- 22. **Azhar Hourani**. 2004. Influence of Organic and Inorganic Fertilizer on Yield and Yield components of Irrigated Corn (Zea mays L.) in northern Jordan.
- 23. **Jaffar Q**udah. 2004. Effect of Melon Aphid, Aphis Gossypii Glover, on Different Okra Varieties, *Abelmoschus* Esculentus (L.).
- 24. **Yousef Omari**. 2003. Influence of Potassium and Salinity on Cucumber Plants (*Cucumis sativus* L.) Grown in Hydroponics Culture.
- 25. **Endale Taye Wondim**. 2002. Morphological, Physiological, & Yield Traits of Faba Bean (*Vicia fabae* L.) Genotypes as Influenced by Drought Stress.

Graduate Students (more than 40 examining committees):

- 1. **Majda al Harbi**. 2022. Farmers opinions toward replacing new vegetable varieties that achieve agriculture sustainability under Corona pandemic in Jordan valley. Jarash University.
- 2. **Zainab AboAloush**. 2022. The effect of magnetized water and Fe₃O₄ nanoparticles on seed germination and seedling growth of wheat Triticum durum Land barley Hordeum vulgare L. Jordan University of Science and Technology.
- 3. **Batool** Alwraikat. 2022. Ultrasonic treatment to enhance seed germination and vigor of wheat in association with GABA shunt pathway. Jordan University of Science and Technology.
- 4. **Wafa Obada**. 2021. Effect of salinity on morphological, physiological characteristics and leaf ultrastructure in corn (Zea mays L.). Jordan University of Science and Technology.
- 5. **Ayah Tanash**. 2021. Effect of Drought Stress on Wheat Triticum durum L Growth and Metabolism Insight from GABA shunt Reactive Oxygen Species and Dehydrin genes expression. Jordan University of Science and Technology.
- 6. Hamed Alkhatatbeh. 2021. Comparative Analysis of the Complete Chloroplast Genome of Two Prosopis Species Prosopis juliflora and Prosopis farcta in Jordan. Jordan University of Science and Technology.
- 7. **Majd Abusalem**. 2019. Effect of green synthesized iron nanoparticle on growth and physiological responses of tomato (Solanum lycopersiccum L). University of Jordan.
- 8. **Arwa Mehdawe**. 2019. Effect of Foliar Application of Moringa Leaf Extract on Growth and Yield of sweet Pepper Under greenhouse conditions. Mutah University, 2019.
- 9. **Tojan Al-Rawashdeh**. 2019. Growth and Yield of Sweet Pepper (capsicum annuum L.) as Influenced by Seaweed Extract and Humic acid under greenhouse Conditions., M.Sc. Mutah University.
- 10. **May Abu Serdane**. 2015. Evaluation of in Vitro Salt Tolerance in Cucumis prophetarum L., A Crop Wild Relative. Yarmouk University.

University Services (Last 5 years)

Department of Plant Production Committees:

- Graduate Comprehensive Exams Committees
- Graduate Studies Committee
- Students Affaires Committee
- Research Committee
- Instruments and supplies committee advisor
- Greenhouses committee
- University farm (Jordan Valley) committee
- Greenhouses management committee

Faculty of Agriculture Committees:

- Faculty Tenders Committee Advisor
- Faculty Supplies Committee Advisor
- Graduate Studies Committee
- Students Affaires Committee Advisor

Jordan university of Science and Technology Committees:

- Agriculture Technology Club Consultant
- Graduation Day Committee Member
- JUST yearbook Committee Member
- University Student Affairs Committee Member
- University accreditation committee member
- International Student Club Advisor
- Disciplinary Board Member

Peer Reviewing:

Peer reviewed for many local and international journals.

Community Services:

- Chairman of BoD (MIRRA) Methods for Irrigation and Agriculture.
- Accreditation committee of Plant Productions at the Jordanian Universities (Ministry of Higher Education).
- Member of National team of Organic Farming (Jordan Valley Foundation)
- Member of Technical Panel Committee of Horticultural Product Export Promotion Project (NCARTT & Ministry of Planning and international cooperation)
- Member of Irrigated Agriculture Production Council (NCARTT, National Center of Agriculture research and technology Transfer)
- Member of Agro Biodiversity Project (JUST, JU, NCARTT, JIF, UNDP, ICARDA)

- Member of Water Harvesting Project (JUST and ICARDA)
- Member of JUST faculty society.
- Member of Agriculture engineering society.
- Participation of several other committees for the Jordanian Ministry of Agriculture and NCARTT, all concerning issues dealing with horticulture.