



Fortnight Focus

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From Vice-Chancellor's Desk

IMMUNE BOOSTERS IN HORTICULTURAL CROPS

Horti products are excellent immune boosters. Citrus fruits, pomegranate, jack fruit, tomato and red bell peppers are high in vitamin C. Onion is great immune-boosting vegetable, contains vitamin C, sulphur, zinc, selenium and most important quercetin. Broccoli is packed with vitamins A, C and E as well as fiber and many other antioxidants. Early civilizations recognised turmeric, ginger and ginger values in fighting infections. Spinach, not only rich in vitamin c and also packed with numerous antioxidants and beta carotene. Almonds are rich in vitamin E. Papaya is another fruit loaded with vitamin C, besides decent amounts of potassium, magnesium and folate. Like papayas, kiwis are naturally full of ton of essential nutrients, including folate, potassium, vitamin K and vitamin C. Sapota comes with a whipping amount of vitamin C, A and antioxidants. Mango contains 50% of the daily value of vitamin C. Bananas are not only a prebiotic food supporting gut health and also high in vitamin B6. Coconut contains anti-viral properties (Lauric acid & Caprylic acid), an excellent immunity booster.


Dr T. Janakiram
Vice-Chancellor

Dr.YSRHU varieties notified at National Level by Central Variety Release Committee.

Thirteen varieties/hybrids released by Dr.YSR Horticultural University were notified by Central Variety Release Committee at National Level. Vide Gazette No.1369, dt:7 April, 2021 of Ministry of Agriculture and Farmers Welfare, Government of India.

Sl.No	Crop	Varieties
1	Turmeric	Lavanya (KTS-3)
2	Coriander	Suruchi (LCC-234)
3	Chilli	LCA-620, LCA-625, LCH-111
4	Colacasia	Godavari Chema (KCS-3)
5	Oil Palm	Godavari Swarna (NRCOP4)
6	Fenugreek	Lam Methi-2 (LFC84/APHU Methi-1)
7	Banana	Godavari Bontha (KBS -5)
8	Coconut	Vasista Ganga (GBGD X PHOT), Gauthami Ganga (GBGD), Abhaya Ganga (GBGD x LCOT), Vynateya Ganga (PHOT x GBGD)



Turmeric: Lavanya (KTS-3)



Coriander: Suruchi (LCC-234)



Chilli: LCA-620



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Colacasia: Godavari Chema (KCS-3)



Oil Palm: Godavari Swarna



Fenugreek: Lam Methi-2



Coconut: Vasista Ganga



Coconut: Gauthami Ganga



Coconut: Abhaya Ganga



Coconut: Vynateya Ganga



Banana: Godavari Bontha

The Events

Vice-Chancellor's Visit

Dr. T. Janakiram, Hon'ble Vice-Chancellor along with Dr.B. Srinivasulu, Director of Extension and Dr. RVSK Reddy, Director of Research have visited HRS, Darsi (23.04.2021), CRS, Tirupati, BRS, Pulivendula & HRS, Anantapur (24.04.2021), HRS, Mahanandi & KVK, Vonipneta (25.04.2021) and reviewed the progress of research, extension and developmental activities.



Education

Jagananna Vidyadevena

Jagananna Vidyadevena program was organized at CoH, Anantharajupeta on 23 April 2021. A cheque of Rs.3,82,69,721/- was issued to student beneficiaries and parents by the Department of Social Welfare, Rly.Kodur, YSR Kadapa district. The Associate Dean, staff and students participated in the program.



ELP Activities



College of Horticulture, Anantharajupeta organized an online interaction of ELP students on 27 April 2021. Dr T.Janakiram, Hon'ble Vice-Chancellor, Dr. YSRHU, addressed the students of ELP. Dr A.S.Padmavathamma, Dean of Horticulture and Dr A. Sujatha, Dean of Student Affairs & NSS Programme Coordinator, participated in the programme and gave valuable suggestions.

Guest Lecture

Prof. Richard Lee, Rtd. Professor, University of Florida, USA and USDA-ARS Research Plant Pathologist delivered a talk on "Psyllid transmission of *Candidatus liberibacters* causing Citrus greening disease" to the postgraduate students of Plant Pathology and Entomology departments. Dr.K.Sesha Kiran, Associate Professor (Pl.Path), organized the lecture for the benefit of students.



CoH, Anantharajupeta organized demo and guest lecture by Garuda Aerospace Pvt. Ltd., Chennai, on 17 April 2021. They have explained the utility of drone technology in Agriculture and Horticultural crops and sprayed Hexaconozole + Chlorpyrifos + sticking agent to mango plants by using drone mount sprayer.

Research

District Level Seminar on “Turmeric”

HRS, Anantharajupeta. Dr.YSRHU organized district level seminar on Turmeric under CSS-MIDH programme. Sri Raghurami Reddy garu, Honble MLA, Mydukur and Sri Ravindranath Reddy garu, Hon'ble MLA, Kamalapuram have graced the occasion and distributed certificates and mementoes to the the progresseive farmers of Y.S.R kadapa district.



On 16.04.2021 Dr. V. Govardhan Rao, Scientist (Pl.Path) and Shri. A. Kireeti, Research Associate proceeded to Mummidivaram, East Godavari district and collected information on impact of technologies implemented from coconut farmers.



On 24.04.2021 Dr. BVK. Bhagavan, Principal Scientist (Hort.) & Head, HRS, Ambajipeta and Shri. A. Kireeti, Research Associate proceeded for selection of fields for planting banana in the adopted village Avidi under SC sub plan.

Dr.R.Rajya lakshmi, Principal Scientist (Horticulture), MRS, Nuzvid visited mango fields in Edara, Krishna district and advised the farmers on measures to prevent fruit drop along with demonstration of fruit fly traps on 16 April 2021.



Dr R.Rajya Lakshmi, Principal Scientist (Hort.) and Dr.G.Sravanthi, Scientist (Ento.) MRS,Nuzvid visited mango fields in Mylavaram, Krishna district and advised the farmers on measures to prevent fruit drop and to control pests and diseases along with demonstration of fruit covers on 19 April 2021.

Dr.G.Sravanthi, Scientist (Ento.) MRS,Nuzvid visited mango fields in Chatrai and Vissannapeta in Krishna district and advised the farmers on management of pests and diseases along with demonstration of fruit covers on 22 April 2021.



Dr P. Ashok, Senior Scientist (Horticulture), HRS, Venkataramannagudem conducted jack fruit exploration in Devarapalli mandal, W.G.Dist and other adjoining areas during March and April,21 and identified eight variable genotypes of high yielding small fruited jack fruit trees (both for fruit and vegetable purpose).

Dr. P. Rama Devi, Senior Scientist (Plant Pathology), and Dr. P. Ashok, Senior Scientist (Hort), conducted diagnostic field visit to coconut and guava orchards at Tadepalligudem on 27.04.21 and explained the control measures for rugose spiraling whitefly, guava fruit borer and mealy bug.

Extension Activities

Vice-Chancellor to Village Activities

Dr.K.Swarajya Lakshmi, Professor, College of Horticulture, Anantharajupeta conducted an awareness program to women beneficiaries on Value addition of fruits and vegetables "ఉద్యాన పంటలతో విలువ ఆధారిత ఉత్పత్తుల తయారీ- పోషక విలువలు" in adopted village of Nagavaram on 30 April 2021. Explained about value addition, preparation of Rose gulakand, sour cabbage preparation, spicy powder from sour cabbage and their nutritional importance.



Ch. Ruth, Prof.(Pl.Path) and . K. Swarajya Lakshmi, Professor, CoH, Anantharajupeta conducted diagnostic visit to Sweet corn field on 25 April 2021 and observed mosaic virus, rust, heliothis incidence in cowpea intercropped with sweet corn in Kammappalli village and suggested control measures.

Scientists of HRS, V.R.Gudem conducted diagnostic field visit to the watermelon fields in adopted village, Jaggannapeta and Telikacharla on 16 April 2021 and suggested control measures to thrips, whitefly and gummy stem blight in watermelon under VC to Village programme.



Scientists of HRS, V.R.Gudem conducted diagnostic field visit to the mango orchards in adopted village, Jaggannapeta on 26 April 2021 and suggested control measures to fruit borer, thrips and anthracnose under VC to Village programme.

Capacity Building Training Programmes

KVK, Venkataramannagudem and Farmer Advisory Cell, Dr.YSRHU has conducted three days capacity building training on "Advances in Nursery Management Techniques in Horticultural Crops" to the Subject Matter Specialists (SMSs) of KVKs under ANGRAU from 22.04.2021 to 24 April 2021. Dr E.KarunaSree, Principal Scientist & Head, KVK, Venkataramannagudem has welcomed the Chief Guest Dr. T. Janakiram,



Hon'ble Vice-Chancellor, Dr. YSRHU and Other Guests of honour Dr. B. Srinivasulu Director of Extension and Dr. R.V.S.K. Reddy Director of Research guests on to the dais. Training programme was inaugurated by the Hon'ble Vice Chancellor Dr.T.Janakiram, Dr.YSRHU. He addressed the gathering on importance of nursery Management in Horticultural Crops. Trainees learnt various Grafting methods i.e veneer grafting, approach grafting, wedge grafting, patch budding, air layering and T-budding and macro propagation. Also learnt nursery management in cocoa and

and coconut ,vegetable nursery management and visited the CEPC where, they were taught about different media used for filling portrays, and bags for propagation of horticultural crops,, selection of portrays etc. This training programme was coordinated by Dr.E.Karuna Sree, Principal Scientist & Head and Dr.V.Deepthi, scientist (Agricultural Extension) KVK venkataramannagudem. Dr. K. Gopal, Registrar, Dr YSR HU participated in the valedictory session on 24.04.2021 and distributed certificates to the participants.

Training Programmes

On 23 April 2021, Suneetha Runjala, Research Associate (Home Science), KVK, Vonipenta participated as a technical resource person for Nutrition in Nursing college of RIMS, Kadapa. Scientist explained about diet during life span from gestation to geriatric stage, malnutrition, micro nutrients importance, food source and micro nutrients related to COVID situation. Also provided method demonstration on mixed fruit jam and mango murabba which are rich in vitamins and minerals especially vitamin A and C.



On Farm Trial

On 28 April 2021, Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited chilli fields for follow up under OFT at Thorrivemula village of Mylavaram mandal. Scientist explained the post harvest management in chilli for getting good quality dry chillies.



Front Line Demonstrations



On 28 April 2021, Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited Acid lime fields for follow up under FLD on flower regulation in Acid lime at Ponnampalli village of Mylavaram mandal. Scientist explained about spraying of gibberillic acid, cycocel and potassium nitrate for flower regulation and getting higher yields in summer crop and collected yield parameters data in the demonstration field.

Diagnostic Visits

On 29 April 2021, Dr. B.Vijayasree, Research associate (Home Science), Dr.K.MallikarjunaRao, Research Associate (Horticulture) and Ms. K.Sravani, Research associate (Agrl.Extension), KVK, Periyavaram visited Nutrigardens at household level in the adopted village Busapalem. Made follow up visit to homestead nutrigardens of different farm families, provided awareness on summer vegetables, roots, tubers, greens and their consumption and utilization for improving the health and nutrition of farm families.



On 29 April 2021, Dr. K Mallikarjunarao, Research Associate (Horticulture), KVK, Periyavaram visited chilli field for diagnosis of pests and diseases at Maratapalli village of Venkatagiri mandal. Identified upward curling of leaves in chilli and suggested to spray fipronil @ 2ml/l or acetamiprid @ 0.2g/l for the control of insect vectors.

On 30th April 2021, Dr. K Mallikarjunarao, Research Associate (Horticulture), Dr. B. Vijayasree, Research Associate (Home Science) and Ms. K.Sravani, Research associate (Agrl. Extension), KVK, Periyavaram visited brinjal and okra fields. Identified shoot and fruit borer in brinjal and recommended to remove and destroy the infested shoot and fruits followed by spraying of Chlorantraniliprole @ 0.3ml/l (or) Emamectin benzoate 5% SG @ 0.5g/l to farmers at Kalaganda village of Balayapalle mandal. Also observed white fly infestation in okra and suggested to spray Acephate @1.5g/l.



On 23 April 2021, P Raja Sekhar, Scientist (SS&AC), KVK, Pandirimamidi has visited demonstration fields of sesame variety YLM-66 under NFSM- CFLDs on Oilseeds at East Lakshmipuram village of Eleswaram mandal. During the visit, scientist conducted crop cutting experiment with the participation of Village Agriculture Assistant and farmers to estimate the yield and recorded the observations pertaining

to growth and yield attributing characters.

On 17 April 2021, Dr. N. Chiranjeevi, Research Associate (Plant Pathology), KVK, Pandirimamidi along with Horticultural Officer, Rampachodavaram has visited chilli drying yards at Chodavaram, Gannavaram, Gouri Devipeta, Thotapalli and Nandigama villages of Yatapaka Mandal and suggested proper drying methods and remedial measures to farmers to avoid post harvest losses due to off seasonal rainfall.



On 17 April 2021, Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited mango field for diagnosis of pests and diseases at Singarayapalle village of Kalasapadu mandal. Scientist observed mealy bug in mango and recommended to spray chlorpyrifos @ 2.5 ml /l to control the pest.



On 19 April 2021, Dr. V. Yugandhar, Research Associate (Horticulture) and Ms. K. Prasadhu, Research Associate (Plant Pathology), KVK, Vonipenta visited groundnut fields for diagnosis of pests and diseases at Settivaripalli village of Mydukur mandal. The scientists observed tobacco caterpillar infestation in groundnut and suggested spraying of Novaluron or Quinol-

phos @ 2ml /l to control the pest.

On 27 April 2021, Dr.V.Nagarjuna, Research Associate (Soil Science) and Dr.Srividya rani.N, Scientist (Extension) & Head, KVK, Vonipenta visited chilli fields for diagnosis of pests and diseases at Lakkallavaripalli and Nallapureddypalli villages of Mydukur mandal. Identified the upward and downward curling in chillies and suggested application of acephate @ 1.5 gm /lit or triazophos @ 1.25 ml/ lit for the control of insect vector.





On 28 April 2021, Dr.V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited Brinjal fields for diagnosis of pests and diseases at Gangunarayanapalle village of Mylavaram mandal. Observed brinjal shoot and fruit borer infestation and recommended the removal of the infested shoot from plants followed by spraying of profenophos @ 2ml /l to control the pest.

On 28 April 2021, Dr V.Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited Jasmine fields for diagnosis of pest and diseases at Kanugagudur village of Duvvur mandal. Identified mite infestation and suggested to spray wettable sulphur @ 3g/lit. of water.



On 28 April 2021, Dr V.Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited groundnut fields for diagnosis of pests and diseases at Madirepalli village of Duvvur mandal. Identified Red Hairy Caterpillar infestation in groundnut and suggested to spray monocrotophos @1.6 ml/ litre for control of the pest.

General

Meetings

On 23 April 2021, Dr. BVK. Bhagavan, Principal Scientist (Hort.) & Head and Dr. V. Govardhan Rao, Scientist (Pl.Path), HRS, Ambajipeta participated in review meeting on AICRP Palms, Kasaragod through virtual mode.

Dr.D.Srinivasa Reddy, CRS, Tirupati attended ZREAC meeting at RARS, Tirupati on 20/04/2021 and delivered lecture on management of Rugose spiraling white fly.

Dr. K T V Ramana, Dr. L. Mukunda Lakshmi, Dr.D.Srinivasa Reddy and Dr. T. Rajasekharam, CRS, Tirupati attended Webex meeting on Finalization of VIII GD Proceedings on 30/04/2021 with Project Co-ordinator, ICAR-AICRP on Fruits, Bangalore.

TV Programmes

Dr. B.K.M.Lakshmi, Principal Scientist (Plant Pathology), MRS, Nuzvid attended recording on "Danimma thotala saagulo melaina yajamanya paddathulu" at RBKs, ICC, Gannavaram on 22 April 2021.

Dr. K T Venkata Ramana, Principal Scientist (Hort) & Head, CRS, Tirupati attended recording on "Integrated cultivation practices for summer in Citrus" at DD Saptagiri, Vijayawada on 26 April - 2021.

Phone-in-Programs under Farmers Advisory Cell of Dr YSRHU

Dr YSRHU-Farmers Advisory Cell organized the following Phone-in-Programs during the second fortnight of April (3-4 PM).

Date	Activities
16.04.2021	చీని, నిమ్మ సాగులో మెళకువలు Dr.C.Madhumathi, Principal Scientist & Head, CRS, Petlur

Date	Activities
17.04.2021	వేసవిలో కూరగాయల సాగులో సలహాలు -సూచనలు Dr.M.Ravindrababu, Sr.Scientist, HRS, V.R.Gudem
19.04.2021	చీని, నిమ్మ తోటలలో సమగ్ర సస్యరక్షణ Dr.B.Govindarajulu, Principal Scientist, & Head, KVK, Periyavaram
20.04.2021	వేసవిలో పూల తోటల సాగు Dr.P.Lalitha Kameswari, Sr.Scientist & Head, KVK, Pandirimamidi
22.04.2021	మిరపలో తెగుళ్ళ యాజమాన్యం Smt T.Vijayalakshmi, Sr.Scientist, HRS, Lam
23.04.2021	పసుపు పంటలో యాజమాన్య పద్ధతులు Dr.K.Giridhar, Sr. Scientist, HRA, Lam
24.04.2021	వేసవిలో జీవాల పెంపకంలో మెళకువలు Dr.T.Vijaya Nirmala, Scientist, KVK, V.R.Gudem
26.04.2021	బత్తాయిలో పోషక లోపాలు – వాటి యాజమాన్యం Dr.LMukundalakshmi, Sr.Scientist, CRS, Tirupati
27.04.2021	చేపలు మరియు రొయ్యలలో వ్యాధుల యాజమాన్యం Dr.A.Devivaraprasad Reddy, Scientist, KVK, V.R.Gudem
28.04.2021	అల్లం సాగులో మెళకువలు, Dr.V.Siva Kumar, Scientist & Head, HRS, Chintapalli
29.04.2021	దుంప పంటల సాగులో మెళకువలు Dr.K.Mamata, Sr. Scientist, HRS, Kovvur
30.04.2021	ఉద్యాన పంటల్లో కోత అనంతర యంత్రాలు – ఆవశ్యకత Sri P.C.Vengaiah, scientist, HRS, Pandirimamidi

“Udyana Vani” programs under Farmers Advisory Cell of Dr YSRHU

Dr YSRHU-Farmers Advisory Cell organized the following “Udyana Vani” Programs during the second fortnight of April, 2021.

Date	Activities
16.04.2021	ఏప్రిల్ మాసంలో రాష్ట్రంలో వివిధ కూరగాయల పంటలు మరియు పండ్ల తోటలలో చేపట్టవలసిన పనులు మరియు సూచనలు; జెర్నెర, హెలికోనియా సాగులో యాజమాన్య పద్ధతులు
17.04.2021	ఏప్రిల్ మాసంలో రాష్ట్రంలో వివిధ పండ్ల తోటలలో చేపట్టవలసిన పనులు మరియు సూచనలు; వాతావరణ సూచనలు; రేగు మరియు అనాస సాగులో యాజమాన్య పద్ధతులు—సస్యరక్షణ చర్యలు

Date	Activities
19.04.2021	ఏప్రిల్ మాసంలో రాష్ట్రంలో వివిధ పండ్ల తోటలలో చేపట్టవలసిన పనులు మరియు సూచనలు; పనస మరియు అంజూర సాగులో మెళకువలు
20.04.2021	ఏప్రిల్ మాసంలో రాష్ట్రంలో వివిధ పండ్ల తోటలలో చేపట్టవలసిన పనులు మరియు సూచనలు; ప్యాషన్ ఫ్రూట్, వాక్కాయ సాగులోని మెళకువలు
23.04.2021	కాఫీకం, టమాట మరియు కొత్తిమీర యాజమాన్య పద్ధతులు—సస్యరక్షణ చర్యలు
24.04.2021	ఏప్రిల్ మాసంలో రాష్ట్రంలో వివిధ తోట పంటలలో చేపట్టవలసిన పనులు మరియు సూచనలు; గులాబి మరియు గ్లాడియోలస్ యాజమాన్య పద్ధతులు—సస్యరక్షణ చర్యలు
26.04.2021	ఏప్రిల్ మాసంలో రాష్ట్రంలో వివిధ కూరగాయ తోటలు మరియు పూల తోటలందు చేపట్టవలసిన పనులు మరియు సూచనలు; రబ్బర్ మరియు చింతలో యాజమాన్య పద్ధతులు
27.04.2021	ఏప్రిల్ మాసంలో రాష్ట్రంలో వివిధ తోట పంటలలో చేపట్టవలసిన పనులు మరియు సూచనలు; కాఫీ యాజమాన్య పద్ధతులు
28.04.2021	ఏప్రిల్ మాసంలో రాష్ట్రంలో సుగంధ ద్రవ్య పంటలు, ఔషధ మరియు సుగంధ తైల మొక్కలనందు చేపట్టవలసిన పనులు మరియు సూచనలు ; కాఫీ సస్యరక్షణ చర్యలు
29.04.2021	జీడిమామిడిలో సస్యరక్షణ చర్యలు
30.04.2021	కొబ్బరి యాజమాన్య పద్ధతులు



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