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Dr YSRHU e-Newsletter

1-15 January 2023



From Vice- Chancellor's Desk

The Sports, cultural, and literary competitions in the educational institutes hold immense importance for the overall development and growth of students. These competitions inculcate positive sportive spirit to go beyond their horizons, explore beyond their academic curriculum, fostering a excellent personality and enhancing their skills and talents.

Sports promote physical fitness, teamwork, leadership, and sportsmanship among students. Cultural activities celebrate diversity and encourage students to showcase their talents in areas such as dance, music, drama, and art. Literary competitions encompass a wide range of activities such as debates, public speaking, creative writing, and quizzes, that help students develop critical thinking, communication skills, and confidence in expressing their opinions.

Dr. YSR Horticultural University acknowledges the importance of Sports, cultural and literary activities and encourages the students to take active participation. The University vibrantly organized 10th Inter Collegiate Sports, Games, Cultural and Literary Meet from 5th to 7th January, 2023 at College of Horticulture, Venkataramannagudem. One hundred and fifty contingents from 8 colleges of Dr. YSRHU *viz.*, Colleges of Horticulture - Venkataramannagudem, Anantarajupeta, Parvathipuram, Chinalatarapi, SrikrishnaDevaraya College of Horticultural Sciences- Anantapuram, J.C. Diwakar Reddy Horticultural College- Tadipatri, KBR College of Horticulture- C.S. Puram, N.S College of Horticultural Sciences- Markapuram performed their best in the competitions and bagged prizes.College of Horticulture, Venkataramannagudem won overall championship.

The University facilitated the students to explore their interests, dig out their talents, develop skills, and build character through this event. These competitions also fostered a sense of community, promote diversity, inclusivity, and contributed for the overall reputation of the university on one hand and nurtured the young talent on the other.

Team Work makes Dream Work

Dr T.Janakiram Vice-Chancellor

The Events

New Year Celebrations:

New Year was celebrated at Dr.YSRHU-College of Horticulture, Anantharajupeta. Dr.K.Gopal, Associate Dean, Teaching and Non Teaching staff and students participated in the celebrations. While speaking on the occasion, Dr.K.Gopal greeted the students on the occasion and taught them ethics of life. Dr.K.Gopal proposed to start Innovation Cell



to present innovative ideas by the students on first and fourth Saturday of every month.

National Youth Day



National Youth Day was celebrated by NSS Cell of Dr.YSRHU-College of Horticulture, Anantharajupeta by paying rich floral tributes to Swamy Vivekananda on 11.1.2023. In this regard, a rally was conducted at

adopted Village-Y.Kota by reciting Swamy Vivekananda's slogans. Dr. K.Swarajya Lakshmi , Professor (Horti.), VC to Village Programme Co



Ordinator Dr.Ch.Ruth, Professor (Plant Path.), Dr.Lalitha Kadiri and Dr. Y. Deepthi Kiran, NSS Programme Officers, staff and students participated in the programme.

 10^{th} Inter collegiate games, sports, cultural and literary meet was hosted by CoH, VRGudem from 05-01-23 to 07-01-2023.

Inauguration: Dr. YSR Horticultural University, College of Horticulture, Venkataramannagudem hosted 10th Inter College Sports, Games, Cultural and Literary Competitions which were started on 5th January and lasted for three days (05-07 January, 2023). Students from 8 colleges viz., College of Horticulture Venkataramannagudem, Anantarajupeta, Parvathipuram, Chinalatarapi, Srikrishna Devaraya College of Horticultural Sciences- Anantapuram, J.C. Diwakar Reddy Horticultural College-Tadipatri, KBR College of Horticulture- C.S. Puram, N.S College of Horticultural Sciences- Markapuram participated. The program was inaugurated by Dr. T. Janaki Ram, Hon'ble Vice Chancellor of the University. Chief Guest Shri.B. Malla Reddy, IPS (Retd.), Joint Managing Director, APTRANSCO, Vijayawada and Mr. I. Ajay Kumar Reddy, Captain of Indian Blind Cricket Team attended as Special Guest and Guest of Honour. The programme was graced by University officials, Dean of student affairs Dr. D.R. Salomi Sunitha, Dr. M. Madhavi, Associate dean, College of Horticulture, VR Gudem and Dr. K. Gopal, Associate Dean, College of Horticulture, Anantharajupeta.







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Students of Dr YSRHU, participated in 10th Inter collegiate games, sports, cultural and literary meet hosted by CoH, VRGudem from 05-01-23 to 07-01-2023.

Valedictory: The valedictory function was graced by Dr. T. Janakiram, Hon'ble vice chancellor, university officers Dr. A. S. Padmavathamma (Dean of Horticulture), Dr. DR Salomi Sunitha (Dean of Student Affairs), Dr. S. Surya Kumari (Dean of PG Studies), Dr. D.Venkata Swamy (Controller of Examinations), Dr. B. Srinivasulu (Registrar) and AssociateDeans of the respective colleges. The winners received the awards from Vice-Chancellor. Students of CoH, VR Gudem won overall championship of both men and women.



Education

Counseling for ICAR quota - P.G. & Ph.D.Admissions

Counseling for PG admission into M.Sc.(Horticulture) and Ph.D.(Horticulture) for students of Andhra Pradesh, Telangana and Other States who qualified and secured rank in subject group of ICAR-AIEEA (PG)-2022 & ICAR-AICE-JRF/SRF (Ph.D)-2022 was conducted at Dr.Y.S.R. Horticultural University, College of Horticulture, Venkataramannagudem on 09-01-2023 and 10-01-2023.

For M.Sc.(Hort.) programme, out of 116 qualified candidates, 90 candidates attended for counseling on 09-01-2023 and 52 were given admission to M.Sc.(Horticulture) in Fruit Science, Vegetable Science, Floriculture & Landscaping, Plantation, Spices, Medicinal and Aromatic Crops, Post Harvest Management, Entomology & Plant Pathology disciplines.



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For Ph.D (Hort.) programme, out of 32 qualified candidates, 27 candidates attended the counseling on 10-01-2023 and 23 were given admission to Ph.D.(Horticulture) in Fruit Science, Vegetable Science, Floriculture & Landscaping, Plantation, Spices, Medicinal and Aromatic Crops, Post Harvest Management, Entomology & Plant Pathology disciplines.



Students at RHWEP



Dr. M. Janaki, Scientist (Hort.) & Head, Dr. YSRHU - HRS, Peddapuram taught classes to 15 RHWEP students on 3.01.2023 and 10.01.2023 and explained about experiments under cassava and sweet potato.

On 09-01-2023, Dr. NBV Chalapathi Rao, Principal Scientist (Ento.) and Dr. Vadde Anoosha explained about live *Encarsia* parasitization in RSW colonies to B.Sc (Hort.) RHWEP students of Parvathipuram at host village Gangalakurru Agraharam.

On 9th January, 2022 Dr. D. Thirupal, Scientist (Horticulture), KVK, Periyavaram enlightened the nursery management practices in Acid lime and conducted demonstration on "Nursery seedlings transplanting in poly bags (secondary nursery)" for RHWEP students (Boys) from Dr.YSRHU-College of Horticulture, Chinalataripi at KVK, Periyavaram.





On 05-01-2023, Dr A.Devivaraprasad Reddy, Scientist (Fishery Science), KVK, Venkataramannagudem has explained about the Fisheries based integrated farming systems and Ornamental fish rearing and breeding to the students undergoing RHWE programme.

On 05-01-2023, Dr M Raghavendra Reddy, Scientist (SS&AC), Dr.YSRHU-KVK, Venkataramannagudem conducted a method demonstration of soil sampling and processing of soil sample from KVK instructional farm and demonstrated preparation of jeevamrutham and its application to Marigold and also ex-



plained about the instruments used in soil analysis, to the students of RHWE programme.

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Research



On 19.01.2023, G. Sandeep Naik, Scientist (Plant Pathology) from Dr YS-RHU- HRS, Anantharajupeta conducted Survey on disease dynamics in Papaya in Mydukur mandal and recorded the data on disease incidence and severity of different diseases in Papaya. The papaya crop is at flowering to fruiting stage.

On 07.01.2023, Dr Y. Sharath Kumar Reddy, Scientist (Pl. Physiology) from Dr. YS-RHU -HRS, Anantharajupeta conducted Nutritional survey in mango orchards and collected thirty soil and leaf samples based on efficiency of orchards in Obulavaripalli and Railway Kodur mandals of Annamayya dist.





A total of 55 cassava genotypes were found with 100 per cent CMD resistance out of 80 open pollinated cassava genotypes developed by Dr.YSRHU – HRS, Peddapuram and the data was recorded on 31.01.2023.

Extension

Training programmes conducted:

Dr. M. Ramaiah, Professor (Entomology), College of Horticulture, Anantharajupeta has attended farmers training program to the farmers and explained about "Mamidi lo pootha mariyu pinde dashalo sasyarakshana charyalu" on 09-0-2023 at Dept. of Hortiuclture, Vedurukuppam(mandal), Tirupati.





Dr.YSRHU - HRS, Pulivendula organized training programme on Turmeric production technology

On 18.01.2023, Dr D. Sreedhar, Senior Scientist (H) and G. Sandeep Naik, Scientist (Pl. Path.) from Dr YSRHU- HRS, Anantharajupeta attended farmers training programme on Turmeric production technology and explained about methods of planting, weed management,

water management, fertilizer management, post harvest technology and pest and disease management.

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Krishi Vigyan Kendra, Pandirimamidi has conducted 2 days skill development training programme on Azolla cultivation methods under TSP-2022-23 during 05-06, January 2023. The technical and practical sessions were conducted on Azolla cultivation methods namely selection of soil, bed preparation, azolla feeding methods and advan-

tages in livestock animals of buffalo and chicks and agricultural crops. Dr. P. Lalitha Kameswari, Principal Scientist and Head explained about the KVK activities. Dr. P.V. Varaprasad AD(AH), FTC, Kakinada explained about azolla preparation methods and uses. A total 30 trainees and 15 VHAs of Ramachodavaram and Gangavarammandals participated. Sri K.Veeranjaneyulu, Scientist (Fisheries) coordinated the programme.

Krishi Vigyan Kendra, Pandirimamidi has conducted Off Campus training programme on Diseae management in IMC carps on 07-01-2023 at Musurumalli village of Rampachodavaram mandal. Scientists explained about bacterial diseases, crustacean parasites problem and protozoovan diseases and their control methods. Sri K.Veeranjaneyulu, Scientist



(Fisheries) coordinated the programme along with Scientist (Horti) and 36 tribal farmers.



On 03.01.2023, KVK, Pandirimamidi conducted training cum demonstration on use of *Baevaria bassiana* and *verticillium lecanii* for management of chilli black thrips at Doogutta village of Kunavarammandal. Dr.N. Narayan Bhat, NCIPM, New Delhi interacted with farmers of IPM plots under NCIPM chilli project demonstration. Dr.P.Lalita

Kameswari, Principal Scientist and Head, Dr.S. Adarsha Scientist (Entomology) explained about judicious use of fertilisers and pesticides for management of pest and diseases in chilli. Demonstrated field level mass multiplication of *Baevaria bassiana* and *Verticillium lecanii* for reduction of pest incidence.

On 06.01.2023, Krishi Vigyan Kendra, Pandirimamidi has conducted Off Campus training programme on Improved management practices in Cashew and Mango at Musurumalli village of Rampachodavarammandal. Farmers were explained about the Improved production technology practices in Cashew and Mango



and motivated farmers towards the following of good management practices. Dr. T. Kranthi Kumar, Scientist (Horticulture) coordinated the programme along with Scientist (Fisharies) Sri K. Veeranjaneyulu.



On 10-01-2023, Krishi Vigyan Kendra, Pandirimamidi has conducted Off Campus training programme to Extension functionaries on Organic cultivation practices in vegetable crops and digital marketing and weather forecasts at I. Polavaram village of Rampachodavaram mandal. Dr. T. Kranthi Kumar, Scientist (Horticulture) coordinated the programme along with scientists of Plant Pathology and Extension.

On 5th January 2023, training programme on "Organic Cultivation of Acid lime" was conducted by

Dr. D. Thirupal, Scientist (Horticulture), Dr.YSRHU-KVK, Periyavaram and enlightened the framers on organic cultivation practices in Acid lime at Chintagunta Village, Venkatagiri Mandal, Tirupathi District. Dr. I. Rajeevana, Scientist (Soil Science), Dr.YSRHU-KVK, Periyavaram explained about role of different



organic products in soil enrichment. Dr. S. Kishor Kumar, VAS (Venkatagiri), K. Penchal Ratnam, AHA, P. Sathesh Kumar, Agronomist, Sri A. Alaikya, VDO from Srinivasa seva trust and farmers were participated in the program.

Dr. I.Rajeevana, Scientist (Soil Science & Agril. Chemistry) conducted training programme on Nu-



trient management in acidlime at Chinthakunta village of Venkatagiri mandal on 6.1.2023. Enlightened the farmers about integration of organic and inorganic manures and to improve the soil fertility and application of micronutrients and biofertilizers to the crop. Dr.D. Tirupal, Scientist (Horticulture), KVK Periyaram, veterinary doctor Dr.Kishore, TVS staff and farmers partici-

pated in the program.

On 7.1.2023, Dr.B. Vijayasree, Scientist (Home Science) Dr. YSRHU - KVK, Periyavaram conducted training program on preparation of value added products with Acidlime at Ammapalem village,

Venkatagiri (M), Tirupathi (Dt). The women were explained about health and nutritional benefits as Lime is a good source of vitamin C and has a good antioxidant property and immunity booster. Also explained about different value added products viz., preparation of pickles and beverages, lemon oil, lemon peel powder which can be used in food and cosmetic industries on commercial basis for income generation.





On 8.1.2023 I.Rajeevana Scientist (Soil Science) conducted training programme on integrated nutrient management in brinjal. Explained about the usage of biofertilizers, neem cake and urea to the crop.

Training programme on Scientific rearing of backyard Poultry at KVK Periyavaram was conducted on 11.01.202. Dr.Swamy Babu, AD(AH), Venkatagiri enlightened farmers on feed management, disease management and precautionary measures to be followed while rearing poultry chicks upto egg laying. Dr.B.Govinda Rajulu, Principal Scientist and Head, motivated farmers especially rural



youth to take up Backyard poultry as an enterprise for income generation. Later distributed Rajashri poultry chicks to the beneficiaries of SC Sub Plan. Dr.P.Nagarjuna Reddy, Scientist (Agril. Extension) organized the programme and distributed pamphlets on Scientific rearing of Rajashri Poultry chicks to the farmers.



On 03.01.2023, Dr. S. Firoz Hussain, Scientist (Horticulture), KVK, Vonipenta conducted a training programme on extraction of papain from papaya. The scientist explained the farmers that the fruits should be 90-100 days old, mature not ripe. The depth of the incision should be 0.3 cm and the incisions should be made on four sides of the fruit. The latex should be collected in

the polythene cover. For the collection of latex, aluminum plates should not be used as the latex reacts with the metal.

Dr.YSRHU-KVK, Venkataramannagudem conducted one day training program on 'Flower regulation and Fruit care management in Mango' on 06.01.2023, to mango progressive farmers from NTR district which was financially supported by Department of Horticulture. The program was



coordinated by Dr. K. Venkata Subbaiah, Scientist (Horticulture).



On 07-01-2023, Dr.M.Raghavendra Reddy, Scientist (SS&AC), Dr.YSRHU-KVK, Venkataramannagudem organized a training programme under "Out scaling of Natural farming" to the beneficiaries under demonstrations. Dr. E. Karuna Sree, Principal Scientist & Head distributed kits to prepare biocontrol agents at farm level to promote Natural farming.

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On 11.01.2023, Dr M Raghavendra Reddy, Scientist (SS&AC), Dr.YSRHU-KVK, Venkataramannagudem demonstrated the use of Ag-

ricultural Drones for spraying of Preemergence herbicides in Paddy after

transplantation and also spraying neem kashayam to paddy. Conducted an awareness programme on Natural farming to the farmers from Penakanamatta and Dommeru. Dr. K. Venkata



Subbaiah, Scientist (Horticulture) also participated in the programme.

On 11.01.2023, Dr. K. Radha Rani, Principal Scientist (Horti.) participated in Training programme as resource person on "Mamidi thotala saagulo pootha, pindey vachhusamayamolo patinchavalasina yajamanya paddhathulapai avagahana karyakramam" conducted by Department of Horticulture, Eluru District at Tukkulluru village. Explained the symptom of various pests and diseases occur during flowering & fruit development stages and suggested control measures.

Out Scaling Natural Farming Practices through Dr.YSRHU-KVKs

On 06.01.2023, Dr.YSRHU-KVK, Pandirimamidi scientists visited brinjal and chilli fields under project on out-scaling of natural farming at Gopavaram village of Rampachodavaram mandal. Provided critical inputs namely agni asthram,



panchagavya, neem cake etc. as part of demonstration on NF and monitored spraying of panchagavya at flowering & fruiting stages of respective crops. Scientist (SS&AC) coordinated the visit.

On 07.01.2023, Dr.YSRHU-KVK, Pandirimamidi scientists visited brinjal field under project on



out-scaling of natural farming at Seethapalli village of Rampachodavaram mandal. Provided critical inputs like agni asthram, panchagavya, neem cake etc. as part of demonstration on NF. Conducted method demonstration on spraying of agni asthra@5 ml/litre for control of shoot & fruit borer and also explained the measures to be taken for maintenance of drip system while dhrava jeevamrith be-

ing applied to crop. Scientist (SS&AC) coordinated this visit

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Dr.YSRHU-KVK, Pandirimamidi scientists conducted 2 days training programme on natural farming under the project titled "Out-Scaling of Natural Farming" from 24th to 25th January, 2023. Dr. P. Lalitha Kameswari, Principal Scientist & Head, inaugurated the programme followed by release of practical manual on Preparation of Organic Formulations in Natural Farming. During the first day, a guest lecture on key elements for escalation of natural farming and 365 days cover crops through natural farming was delivered by Sri B. Tatarao, DPM, APCNF, E.G. District. Practical session was conducted on preparation of 18 bio-cultures and their usage in different crops for nutrition and control of various pest & disease complexes. During second day, a lecture on Strategies for Improving Organic Carbon Status in Soil through Natural Farming Practices was delivered by Dr. P Raja Sekhar, Scientist (SS&AC) followed by practical session on method of preparation of different organic formulations. PMDS seed kits and vegetable seed kits were provided to trainees. Ten APCNF staff members and 40 trainees were participated.



VC to Village Programme:

Dr. Ch.Ruth, Professor (Pl Path), Dr. K.Swarajya Lakshmi, Prof (Horticulture), along with final year BSc.(Horti.) students & P.Yashwanth, VHA visited 6 months old Dragon fruit crop of Sri



KapilagariPapaiah and K.Subrahmanyam at Y.Kota, adopted village on 03-01-2023 and observed reddish lesions, softening of tissues i.e. stem rot fungal infection (*Alternaria* sps) followed by secondary infection with bacterial soft rot due to high soil moisture and rainfall. Sug-

gested drenching and spraying of copper oxy chloride @3 g /l. of water followed by Metalaxyl @ 2g./L.

Dr.Ch.Ruth, Prof (Pl. Path) &, Dr.K.Swarajya Lakshmi, Prof (Horti) visited the banana garden of Sri Thirupal, Y.Kota village, Annamaiah district on 03.01.2023 and observed 30-40 per cent sigatoka leaf spot disease incidence in banana crop. Suggested spraying of Propiconazole 1ml/L of water with sticking agent sandovit @0.5 ml per litre of water and removal and destruction of infected leaves.



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Dr. Ch.Ruth, Professor (Pl Path), Dr. K.Swarajya Lakshmi, Prof (Horticulture), along with ELP students visited Y.Kota, adopted village on 3-1-2023 and observed downy mildew disease & leafminer damage in muskmelon field of Sri Kuppam Jayaramaiah and suggested spraying of metalaxyl @ 2 g/l of water and dimethoate @ 2ml /l of water.



VC to Village Programe: visit to RBK:



Dr. Ch.Ruth, Professor (Pl Path), Dr. K.Swarajya Lakshmi, Prof (Horticulture), have taken BSc. Hon (Hort) final year students to adopted village Y.Kota, Obulavaripalli (M). P.Yashwanth, VHA explained them about RBK activities and Govt. schemes existing for the welfare of the farmer.

On 13-01-2023, Dr. V. Anoosha, Scientist (Ento.) and Dr. G. Koteswara Rao, Research associate (Hort.) proceeded to vakalagaruvu village and conducted awareness programme on judicious use of pesticides to conserve environment at adopted Village under VC to Village programme.



Dr. M. Janaki, Scientist (Hort.) & Head, Dr. YSRHU - HRS, Peddapuram has visited J.Thimmapuram village as part of VC to Village flagship programme on 26.01.2023 and visited sweet potato field (RNSP -1) and MLT on sweet potato and observed that the growth is in good condition.



On 13.1.2023, Dr. I.Rajeevana Scientist (Soil Science) collected soil samples at adopted village Armenipadu in citrus field. In farmers field collected samples in citrus crop at various depths 0-30, 30-60, 60-90 cm and about quartering technique. In this process, in random manner, various soil samples were collected and labelled. In farmers fields 20 samples were collected. Dr.B. Vijaya sree Scientist (Home Science), Dr.P.Nagarjuna Reddy Scientist (Agril.Extension), Dr.YSRHU –KVK,

Periyavaram and farmers participated in the program.

Dr. YSRHU Year of Banana activities

On the eve of Year of Banana, HRS, V.R. Gudem scientists and Mr. Murali Krishna, Assistant Director and Mr. Sridhar, A.O and Mrs. Madhu, V.H.O, Mrs. Alekhya, V.H.A have participated in transplantation of banana at R.B.K. Peda Tadepalli and Anganvadi School. Also informed about the banana awareness to the farmers as a part of VC to Village programme.



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On 11.01.2023, Dr. N. Srividya Rani, Scientist and Head and Dr. S. Firoz Hussain, Scientist (Horticulture), Krishi Vigyan Kendra, Vonipenta conducted a field visit in banana as a part of year of banana. The scientists observed Sigatoka leaf spot and suggested the farmer to spray tilt @ 2.0 ml / litre and Keleol (mineral oil) @ 5.0



ml / litre to control Sigatoka leaf spot. Further, the scientists suggested spraying with Arka banana special @ 5.0 g / litre to improve the yield and quality of banana.



On 10.01.2023, Dr. S. Firoz Hussain, Scientist (Horticulture), KVK, Vonipenta conducted a training programme on banana at RBK in Sunkulagaripalle village of Mydukur Mandal as a part of Year of Banana, 2022-23. The scientist explained that spraying of Arka Banana Special @ 3.0 g / litre will increase the yield and quality of the bunch. Also suggested spraying of KH₂PO₄ to extend the shelf life of the bunch on the

plant for one week and Keleol @ $8.0 \, \text{ml}$ / litre, Tilt @ $2.0 \, \text{ml}$ / litre and Dithane M – $45 \, @ \, 2.0 \, \text{g}$ / litre to control the sigatoka leaf spot.

On 11-01-2023, in view of Dr.YSRHU Year of Banana, Dr.YSRHU-KVK, Venkataramannagudem conducted one day training program on "Organic banana production to banana farmers at Penakanamatta village along with ZBNF officials. Farmers were enlightened about organic package and bunch management in banana. Dr. K. Venkata Subbaiah, Scientist (Horticulture),



Dr. M. Raghavendra Reddy, Scientist (SSAC), KVK, Venkataramannagudem and more than 30 farmers participated in the program.

SCSP



On 10/01/2023, Scientists of HRS Ambajipeta organized the Sc-Sub plan programme and distributed electrical rechargeble battery sprayers to the 14 identified SC farmers of Ambajipeta, Amalapuram, Inavelli and Uppalaguptam mandals of Dr.BR Ambekar Konaseema District. On this occasion, Scientists of explained about the recent technologies on inter cropping in

coconut, bio intensive management of Rugose spiralling whitefly and other pest and diseases in coconut as a part of golden jubilee year of ICAR AICRP on Palms.

An awareness camp was conducted on 11.01.2023 at RBK, Obanapalli village as a part of ICAR SC

-Subplan project entitled Skill development training on "Low cost on farm mass production of biopesticides". Dr. Y. Sireesha, Asst prof.(Pl.Path) elaborated on importance of biopesticides and Dr. Lalitha Kadiri, Assoc. Prof. along with Dr. Y. Deepthi Kiran explained about the importance of organic farming. Smt. Ashiya, Horticulture officer and Sri Lakshmi Narayana, VHA extended their support during the programme.



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Diagnostic Visits



Dr. Syed Sadarunissa, Professor (H), Dr. Lalitha Kadiri, Associate Professor (Agro), Dr. G. Sarada, Associate Professor (Ento) and Dr. Rajeswari, Asst. Professor (Ento) made diagnostic visit to different villages viz., Y. Kota, Anantharajupeta, Maravaripalli, M. Rachapalli and surveyed mango, papaya, banana, nannari

and muskmelon fields. Observed various nutrient deficiencies, pests and diseases and suggested suitable remedial measures.

On 14-01-2023, Dr. Ch. Ruth and Dr. K. Swarajyalakshmi along with PhD students Mr. Chakradhar and Ms, Divya Bharathi visited mango orchards of Yeddula Venkata Ramaiah, E. Ramakrishna, S. Rajasekhar, Viswanatha Naidu, farmers in NethivariPalli (v), Chitvel (M), Annamayya Dist. Mango trees are in various stages of flowering, fruit set &



fruit development. Observed anthracnose symptoms on leaves, blossom blight symptoms on flower inflorescence & petioles, sooty mould and black banded diseases, and low incidence of mango hoppers. Spraying of Hexaconazole @ 2ml or Thiophanate methyl @1 ml along with Buprofezin @ 1.5 ml + Azadirachtin 1500ppm @ 3 ml per one litre of water was suggested. Arka mango special or Multi-K @ 5g. /l. of water for flower initiation where flowering was not yet initiated was also suggested.



On 13-01-2023, Dr. V. Anoosha, Scientist (Ento.) and Dr. G. Koteswara Rao, Research associate (Hort.), Dr.YSRHU—HRS, Ambajipeta, proceeded to vakalagaruvu village and conducted awareness programme on judicious use of pesticides to conserve environment at adopted village.

On 19.01.2023, Sri G. Sandeep Naik, Scientist (Plant Pathology) from Dr YSRHU- HRS, Anantharajupeta conducted Survey on disease dynamics in Papaya in Mydukur mandal. Recorded the data on disease incidence and severity of different diseases in Papaya crop at flowering to fruiting stage. Suggested the farmers for removal and destruction of PRSV and PLCV in-



fested plants followed by spraying of Acephate @ 1.5g + Neemoil @ 5ml per liter to control the virus transmitting vectors and Urea @ 10g + Zinc sulphate @ 2.5g + Boran @ 1.5g per litre at monthly intervals to get higher yields from PRSV infested fields. Suggested to spray Myclobutanil @ 0.05% against powdery mildew and Mancozeb @ 0.25% against alternaria leaf spot disease.

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On 31.12.2022, Dr.S.Adarsha, Scientist (Entomology) Krishi Vigyan Kendra, Pandirimamidi conducted visit to chilli fields at Doogutta village of Kunavarammandal. Crop was at flowering stage. Observed *Spodoptera* and Black thrips incidence. Recommended to follow black thrips management practices for control of pest. Sri Bhargav

Ram, Field scout and Sri Sai kumar, VAA, Doogutta and 12 farmers participated the program.

On 06.01.2023 Dr.S.Adarsha, Scientist (Entomology), from Krishi Vigyan Kendra, Pandirimamidi conducted diagnostic visit to chilli fields at Gondolu, Kapavaram and nellipaka villages of Yetapakamandal. Crop is at flowering and fruiting stage. Observed black thrips incidence @ 15-45 thrips per flower at various locations. Recommended for use of blue sticky traps @ 20/acre and fipronil 80WG 40 g/ acre or Spirotetromat 150% OD @ 160ml/acre or



baevaria bassiana @5g/l and verticillium lecani@5g/l for reduction of pest incidence. 45 farmers, Sri Reamesh, DHO, ASR District, Sri K Chittibabu PHO, ITDA Rampachodavaram, Sri Ramesh HO, Rampachodavram, and 5 VHAs Paricipated in the visit.





On 13.01.2023 Dr.S.Adarsha, Scientist (Entomology), from Krishi Vigyan Kendra, Pandirimamidi. conducted diagnostic visit to tomato fields at Gummuluru village of Korukondamandal. Crop is at flowering and fruiting stage. Observed fruit borer infestation and recommended application of Chlorantraniliprole@0.3ml/l or dyantraniliprole 1.8ml/l for control of pest. Recom-

mended installation of sticky traps for sucking pest management. Five farmers and VHA Smt. Swarnalatha participated in the visit.



On 5th January 2023, diagnostic field visit in Acid lime orchards was conducted by Dr. D. Thirupal, Scientist (Horticulture) and I. Rajeevana, Scientist (Soil Science), Dr.YSRHU-KVK, Periyavaramat Chintagunta village,



Venkatagiri Mandal, Tirupathi District. Observed Citrus canker as a

major disease and micro nutrients deficiencies and suggested remedial measures for the farmers. Identified thrips infestation in Chilli and suggested spraying of Acetamiprid @ 0.2 g or Fipronil @ 2ml or Spinosad @ 0.25 ml per liter of water.

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On 03.01.2023, Dr. S. Firoz Hussain, Scientist (Horticulture) made a diagnostic field visit in the farmers field and observed citrus decline and Red rust mite infestation in sweet orange orchard. The scientist suggested the farmer to uproot and burn the decline plants and spray Ethion 50 EC @ 2.0 ml or Propargite 57 EC @ 2.0 ml or abamectin @ 0.5 ml or spiromesifen @ 0.5 ml to control Red rust mite infestation in sweet orange plants.







On 06.01.2022, Dr. S. Firoz Hussain, Scientist (Horticulture), KVK, Vonipenta made a diagnostic field visit in mango cv. Baneshan. The scientist observed hopper infestation along with exudation of sticky substance on the inflorescence and leaves. Suggested to spray Thiamethoxam @ 0.3 g per litre, Emaectin benzoate @ 0.4 g per litre along with Carbendazim 12 % + Mancozeb 63 % @ 1.0 g per liter of water.

Dr. N. Srividya Rani, Scientist and Head and Dr. S. Firoz Hussain, Scientist (Horticulture), Krishi Vigyan Kendra, Vonipenta made a diagnostic field visit in chilli along with RHWEP students in Adireddypalle village of Mydukur mandal on 11.01.2023. Observed chilli leaf curl virus and thrips in chilli. The scientists suggested to uproot and burn virus infested plants and spray spinosad @ 0.5 ml / litre to control thrips.



On 10.01.2023, Dr.YSRHU - MRS, Nuzvid Scientists conducted diagnostic visit to mango orchards at Annavaram, and observed Thrips and Lepidopteran pests and recommended Fipronil 80WG @ 150g per 1000 liters of water, Emamectin benzoate 5 SG @ 0.4g/l and SAAF @ 2g/l.





On 11.01.2023, Dr.YSRHU- MRS, Nuzvid Scientists conducted diagnostic visit to mango orchards at, Ganapavaram, Kothuruthadepalli and observed Thrips and Lepidopteran pests and recommended Recommended Fipronil 80WG @ 150g per 1000liters of water, Emamectin benzoate 5 SG @ 0.4g/l and SAAF @ 2g/l.

On 12.01.2023, Dr.Srividya Rani.N, Scientist and Head, KVK, Vonipenta and Dr.Deepthi, Scientist

and Head from, HRS, Ananthapuramu conducted diagnostic visit in Pomegranate and Guava orchards at Rekulakunta and D.Agraharam villages of Badvel mandal. Scientists observed Anthracnose on fruits and wilt in Pomegranate plants. Suggested spraying with Hexaconazole @ 1ml/litre or Cabriotop @ 2.5 gms per litre for Anthracnose and drenching with COC @ 3gm per litre or Saaf @ 2 gm per litre twice at an interval of 5 days. Also observed fruit fly infestation in Guava and suggested to go for installation of fruit fly traps @ 5-7 per acre for its control.



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FLD

On 28.01.2023, Sri P Raja Sekhar, Scientist (SS&AC), KVK, Pandirimamidi visited oilpalm orchards under FLD on ICM in oilpalm at Beerampalli and Veerabadhrapuram villages of Rampachodavaram & Addateegala mandal and interacted with farmers. Discussed about moisture conservation measures, mulching etc to be followed in during summer months.





On 02.1.2023 Dr.S.Adarsha, Scientist (Entomology) KVK, Pandirimamidi conducted visit to Cluster frontline demonstrations on Bengalgram var. NBeG 452 fields at Tallur and Yellamilli villages of Gandepallimandal under CFLD Pulses 2022-23 program. Crop is at 36-45DAS. Sri Sadgurumurthy A.O, Gandepalli ,Uday VAA, Talluru and 15 farmers participated the program.

On 17-01-2023 KVK, Pandirimamidi visited Sri Chandra reddy demo plot for observing the status of the Ginger FLD. Noticed weed growth in the field and advised farmers to go for weeding, after that visited rubber processing unit at Lankapakala village. The program was coordinated by Dr R. Praveen Babu, scientist (Extension).



On 12.1.2023, Dr. B. Vijayasree, Scientist (Home Science), Dr.YSRHU - KVK, Periyavaram, con-



ducted follow up field visit of Frontline demonstration on "Nutrigardens for ensuring yearlong availability of fruits and vegetables" at adopted village (VC to Village) Arimenipadu village, Ozili Mandal, Tirupati (Dt.) as part of supply of Vegetable seed kits to the FLD beneficiary farmers. Suggested adoption of formulations like Jeevamrit and Ghana jeevam-

rith. Dr.P.Nagarjunareddy, Scientist (Agrl. Extension), Smt. I. Rajeevana, Scientist (Soil Science), KVK, Periyavaram, Smt.M.Ajitha from APCNF, Anganwadi teachers and farmers participated in the programme.

On 12.01.2023, Dr.P.Nagarjuna Reddy, Scientist (Agril. Extension), KVK, Periyavaram, visited Black Gram (TBG-104) fields at Arimenupadu village under CFLD Pulses Rabi 2022-23. Observed Powdery mildew infestation and suggested to spray wettable sulphur @ 3gm/lit of water. Also visited Groundnut (Kadiri Lepakshi) fields under CFLD Oilseeds Rabi 2022-23.



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Dr. P. Nagarjuna Reddy, Scientist (Agril. Extension), KVK, Periyavaram, visited Groundnut (Kadiri Lepakshi) fields under CFLD Oilseeds Rabi 2022-23 on 12.01.2023. Crop is at vegetative stage. Enlightened beneficiaries regarding prophylactic measures like spraying neem oil for the management of pests.

On 03.01.2023, Dr. S. Firoz Hussain, Scientist (Horticulture), KVK, Vonipenta conducted follow up field visit to FLD Demonstration on Soil test based fertilizer application in banana in Settivaripalle village of Mydukur Mandal. The scientist took observations such as number of hands per bunch, fingers per bunch, finger length and finger width.





On 05.01.2023, Dr. S. Firoz Hussain, Scientist (Horticulture), KVK, Vonipenta made a follow up visit to FLD Application of Arka banana special and potassium di-hydrogen phosphate for higher yields in banana in the farmer's field in Adireddypalle village of Mydukur Mandal.

On 07-01-2023, Dr. M. Harshitha, Scientist (SSAC), KVK, Vonipenta initiated FLD on Micro nutrient management in Pomegranate for getting higher yields. As a part of initiation of FLD on Pomegranate, micro nutrient mixtures like Boron and Zinc provided to the farmers and explained the farmers regarding the importance of Boron and Zinc in flower setting and fruit formation. Dr. N. Srividya Rani, Scientist and Head, Dr. S. Firoz Hussain, Scientist (Horticulture) and Dr.B.S. Kanthi Sri, Scientist (Home Science) participated in the programme.





On 09-01-2023, Dr. M. Harshitha, Scientist (SSAC), KVK, Vonipenta initiated FLD on INM in Sweet Orange for correcting the nutrient deficiencies. Bio- fertilizers like VAM, *Azospirillum*, PSB, *T.viride* were provided to the farmers and explained the dosage of application of liquid bio-fertilizers through drip system. Dr. N. Srividya Rani, Scientist and Head, Dr. S. Firoz Hussain, Scientist (Horticulture) and Dr.B.S. Kanthi Sri, Scientist (Home Science) participated in the programme.

On 10.01.2023, B. S. Kanthi Sri, Scientist (Home Science), Dr. N. Srividya Rani, Scientist and Head, Dr. M. Harshitha, Scientist (SSAC) and Dr. Firoz Hussain, Scientist (Horticulture), Krishi Vigyan Kendra, Vonipenta conducted Front Line Demonstration on Feed supplementation in dairy animals (Urea Molasses Mineral Blocks) to the 10 dairy farmers @ 6 blocks to each farmer were provided.



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OFT

On 11th January 2023, the scientists of KVK, Pandirimamidi has conducted follow up visit to Tomato field at Irlapalli village of Rampachodavaram mandal as a part of OFT on Introduction and assessment of new Tomato Hybrid Arka Abedh. Observed crop in healthy & fruiting stage and suggested good agricultural practices.







On 6th January 2023, Dr. D. Thirupal, Scientist (Horticulture), Dr.YSRHU-KVK, Periyavaram, distributed Chilli var. LCA-620 & 625 seedlings to the beneficiary farmers as a part of On Farm Trial (OFT) titled "Assessment of Chilli varieties in Nellore District" at Petluru village, Venkatagiri Mandal, Tirupathi District and also involved in seeding transplanting in farmers field.

Dr.B. Vijayasree, Scientist (Home Science), Dr. YSRHU - KVK, Periyavaram conducted OFT on "Assessment of Moringa based Millet biscuits for improving the nutritional status of Vulnerable groups" at Anganwadi centre, G.K.Palli village of Venkatagiri (M), Tirupathi (Dt) on 9.1.2023. The beneficiaries were acknowledged about the nutritional importance of Moringa leaf as well as Millets and aslo ex-



plained the scope for income generation by becoming entrepreneurs. ICDS –Supervisor Smt.K. Umamaheswari, Anganwadi teachers, TVS Seva trust team and SHG women participated.



On 11.1.2023, Dr.B.Vijayasree, Scientist (Home Science) Dr.YSRHU - KVK, Periyavaram, conducted OFT on "Assessment of different drying techniques for preparation of Fruit Candies". Dehydration of Papaya fruit and preparation of fruit candies were assessed by using solar dryer, electric tray dryer and sun drying methods. women beneficiaries participated from Yathalur and Jangalapalli villages of Venkatagiri mandal, Tirupathi district.

On 02.01.2023, Dr. S. Firoz Hussain, Scientist (Horticulture), Krishi Vigyan Kendra, Vonipenta made a follow up visit to OFT on "Assessment of Integrated Pest and Disease Management in Brinjal" and observed that the age of the crop was 2 weeks and recorded data on growth parameters.



On 02.01.2023, Dr. S. Firoz Hussain, Scientist (Horticulture) made a follow up visit to OFT Introduction of Ridge gourd varieties Arka Vikram and Arka Prasan in Dwaraka Nagaram village of Mydukur Mandal. The scientist compared the performance of ridge gourd varieties Arka Vikram and Arka Prasan with farmer's variety. Recorded the parameters like fruit parameters.









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On 02.01.2023, Dr. S. Firoz Hussain, Scientist (Horticulture), Krishi Vigyan Kendra, Vonipenta made a follow up visit to OFT Varietal assessment of Coriander variety Sustira and Surabhi at Vonipenta village of Mydukur mandal.

On 03-01-2023, Dr. M. Harshitha, Scientist (SSAC), Dr.YSRHU– KVK, Vonipenta, conducted field day in Black gram (TBG-104) regarding OFT on Assessment the performance of Black gram variety TBG-129 at Mittamanupalli village of Mydukur mandal. Crop cutting experiment (5*5m) was conducted at farmers field and yield. Dr.B.S. Kanthi Sri, Scientist (Home Science) participated in the programme.



On 04-01-2023, Dr. M. Harshitha, Scientist (SSAC), KVK, Vonipenta conducted follow up visit on



OFT regarding the Organic cultivation in Banana for getting the higher income at Settivaripalli village of Mydukur mandal. As a part of this biometric observations like plant height, stem girth, length of the bunch, number of hands in a bunch, number of fingers in hands were recorded. Scientists observed the bunchy top virus affected plants in the field and recommended

the farmers to uproot the plants and destroy them to prevent further spread. Dr. S. Firoz Hussain, Scientist (Horticulture), Dr.B.S. Kanthi Sri, Scientist (Home Science) participated in the programme.

On 09-01-2023, Dr. B.S. Kanthi Sri, Scientist (Home Science) initiated OFT on Assessment of Millet based ready to cook mixes at KVK, Vonipenta. Three ready to cook soup mixes *Viz.* Knor mixed vegetable soup, Manchow instant soup and Ragi mixed vegetable soup were prepared and arranged for sensory evaluation test. Distributed to the KVK staff and RHWEP students and collected data in 9 point rating scale for five parameters. Dr.Srividya Rani N, Scientist and Head, Dr. M. Harshitha, Scientist (SSAC), Dr. S. Firoz Hussain, Scientist (Horticulture), participated in the programme.

Method Demonstrations

On 10-01-2023, Dr. N. Srividya Rani, Scientist and Head, Dr. M. Harshitha, Scientist (SSAC) and Dr.B.S. Kanthi Sri, Scientist (Home Science), Dr.YSRHU– KVK, Vonipenta, involved in conducting method demonstration of Aagnastra preparation by farmers as a part of Natural farming at Somireddypalli village of B. Matam mandal. Ingredients used for Aagnastra preparation were Desi cow urine, garlic, chillies, tobacco and



neem and these were boiled in cow's urine for about two hours and left for two days without disturbing. Aagnastra is used as bio pesticide for all types of lepidopteran pests.

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Gender and Nutrition project



On 6.1.2023, Dr. B. Vijayasree, Scientist (Home Science), Dr. YSRHU - KVK, Periyavaram, as part of Gender and Nutrition project under NEMA of ICAR – ATARI, Zone –X data collection and enumeration has been done at Nutri smart village C.C. Kandriga, Venkatagiri (M), Tirupathi (Dt) with respect to the demographic details, institutional profile, health & hygiene, knowledge on nutritional related aspects and nutri-rich foods and food consumption of households for assessing dietary diversity, consumption pattern and nutri-

tional security in Nutri-SMART Villages.

VISITS

On 10/01/2023, Sri.Jennuru Venkateswaro garu Honourable Member of Board of management of Dr. YSRHU visited Horticultural Research Station Ambajipeta. Dr.B.Srinivasulu Principal Scientist and Head and other staff explained about the ongoing research activities and achievements of the station.





On 3-01-2023, students of B.Sc (Hons.) Agriculture of Pandit Jawaharlal Nehru College, Karaikal, Puducherry visited Dr. YSRHU-HRS, Ambajipeta. The scientists of Dr. YSRHU - HRS, Ambajipeta explained in detail about the research station activities and biocontrol measures for pests and diseases in coconut.

Dr. L. Naram Naidu, Director of Research, Dr. YSRHU has visited the Dr. YSRHU - HRS, Peddapuram on 30.01.2023 and reviewed about research station activities. Dr. M. Janaki, Scientist (Hort.) & Head, explained the progress of all experiments of cassava and sweet potato carrying out under AICRP on Tuber Crops, Non-Plan and Revolving Fund.





Sri. Madireddi Pratap, IPS Director General, AP, Vijayawada, visited university campus at Venkataramannagudem and observed the university museum and integrated farming system unit on 09.01.2023. Dr A.Devivaraprasad Reddy, Scientist, KVK, Venkataramannagudem explained about the innovative extension strategies carried out by Dr.YSRHU to reach the unreached farmers. Also explained the livestock based integrated farming system for enhanced income and sustainabil-

ity to the farming community. Dr. P. Sunitha, Senior Scientist (Ento) explained about mass multiplication of biocontrol agent, Apertochrysa astur in Biocontrol Lab at HRS, VR Gudem and it's

role in the management of rugose spiralling whitefly on coconut. Dr. T. Thomson (Hort.) and Dr. N.V. Gowtham Deekshithulu (Ag. Engg.) explained about the automated protected cultivation practices, types of greenhouses and crops grown at center of excellence for research and training in protected cultivation. Dr. D.Aparna, Senior Scientist (Hort.) explained about the various medicinal plants at Dhanvanthari Park.



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

Dr YSRHU-Farmers Advisory Cell organized the following Phone-in-Programs during the first fortnight of January, 2023 (3-4 PM).

Date	Topics			
02.01.2023	అరటి తోటల పెంపకం లో మేలైన యాజమాన్య పద్ధతులు			
	Dr.T. Susila, Sr. Scientist (Hort.) & Head, BRS, Pulivendula			
03.01.2023	మిరపలో సమగ్ర యాజమాన్య పద్ధతులు			
	Dr.N. Srividya Rani, Scientist & Head (Ag. Extension), KVK, Vonipenta			
04.01.2023	జామ సాగు లో అధిక దిగుబడులు			
	Sri. E. Khamdar Naik, Scientist (Hort.), CRS, Petlur			
05.01.2023	జీడిమామిడిలో కోతఅనంతరం చేపట్టవలసిన మేలైన యాజమాన్య పద్ధతులు			
	Dr.Venkata Subbaiah, Scientist (Hort.), KVK, Venkaramannagudem			
06.01.2023	కొబ్బరిలో ఆకు మచ్చ తెగులు యాజమాన్యం			
	Smt.B.Neeraja, Scientist (Plant Pathology), HRS, Ambajipeta			
07.01.2023	సమస్యాత్మక భూములు వాటి యాజమాన్యం			
	Dr. G. Srinivas Rao, Asst. Professor(SA&AC), HPT, Madakasira			
09.01.2023	అరటిలో సమగ్ర పోషక యాజమాన్యం			
	Dr.T. Susila, Sr. Scientist (Hort.) &Head, BRS, Pulivendula			
10.01.2023	పశుగ్రాసాల లో రకాలు మరియు వాటి సంరక్షణ పద్ధతులు			
	Dr.S. Lavanya, Research Associate (Livestock Production), KVK, Vonipenta			
11.01.2023	దానిమ్మను ఆశించు పురుగులు వాటి నివారణ			
	Dr.P.Deepthi, Scientist (Plant Pathology), HRS, Anantapuramu			
12.01.2023	కరిపేపాకు పంట సాగు లో పాటించవలసిన యాజమాన్య పద్ధతులు			
	Dr. M. Mutyala Naidu, Principal Scientist (Hort.)& Head, HRS, Darsi			
13.01.2023	పుట్టగొడుగుల పెంపకం లో మెళకువలు			
	Dr.N. Chiranjeevi, Scientist (Plant Pathology), KVK, Pandirimamidi			

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Technical support to RBK Channel

Following Scientists of Dr YSRHU are deputed for recording technical content at Integrated Call Centre, Gannavaram through RBK Channel during the first fortnight, 2023.

Date	Topic	Scientist Name	
01.01.23	పండ్ల తోటల్లో పూత మరియు పిందె రాలుట	Dr.Sridhar	
	మరియు నాణ్యత తగ్గుటకు కారణాలు, యాజమాన్య	Sr.Scientist, Dr.YSRHU-HRS, Anantharajupeta	
	<mark>ವರ್</mark> ಯಲು		
06.01.23	కూరగాయలు సాగులో శీతాకాలంలో సంబవించే	Dr.D.Thirupal	
	సమస్యలు—నివారణ చర్యలు	Scientist, Dr.YSRHU-KVK,	
		Periyavaram	
09.01.23	మిద్దె తోటల పెంపకంలో శీతాకాలం మరియు	Sri.G.Shaliraju	
	వర్షాకాలంలో చిదపిడలు నివారణ చర్యలు	Scientist, Dr.YSRHU-KVK,	
	a 0	V.R.Gudem	
13.01.23	సపోటా లో కోత అనంతరం చేపట్టవలసిన చర్యలు	Dr.B.Ramesh Babu	
	మరియు విలువ ఆధారిత ఉత్పత్తులు వివరణ	Sr. Scientist, Dr.YSRHU-HRS, V.R.Gudem	



Dr A.Devivaraprasad Reddy, Scientist (Fishery Science), KVK, Venkataramannagudem explained about the fisheries based integrated farming systems to the farmers from NTR district on 06-01-2023. Explained about the composite fish culture, backyard poultry unit, duckery, goat/sheep unit, vermi compost, azolla etc., and their importance in utilization from one unit to another and income generation from these units.

General

Dr. M. Janaki, Scientist (Hort.) & Head, Dr. YSRHU - HRS, Peddapuram has participated in the District Level Coordination Committee (DLCC) meeting for 2022-23 conducted by DAATT Centre, Peddapuram, ANGRAU on 31.01.2023.

Publications

A popular article "Kobbarini asinche movvukullu tegulu-nivarana charyalu." was published by B. Neeraja, V. Govardhan Rao, A. Kireeti, G. Koteswara Rao, NBV Chalapathi Rao and B. Srinivasulu, Dr.YSRHU-HRS, Ambajipeta.

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