Youth for Action
KRISHI VIGYAN KENDRA
Madanapuram, Wanaparthy Dist, T.S-509110



AREAS COVERED

Capacity building Programmes

OFTs and FLDs

Significant events

Agro -advisories (Farmer-scientist Visits and Kisan Sarathi)

Soil analysis

Capacity building for Staff

Capacity building programmes

Capacity building programmes include Trainings and Skill trainings organized during October to December 2024. A total of 16 capacity-building programs, both online and offline, were conducted. These programs were conducted from different discipline including Plant protection, Horticulture, Agril. Engineer, Agricultural extension, and Home science. The training targeted farmers, rural youth, extension workers, and farm women in Mahabubnagar district, benefiting a total of 710 participants.

Trust area	Discipline
Improved Cultivation practices in Pulses	Plant protection
Pest and disease management in Filed crops	Plant Protection
Integrated Crop Management in Rabi crops	Plant protection
Organic production practices in field crops	Plant protection
Integrated water and nutrient Management in Fruits crops	Horticulture
Sensitization Program on Government Subsidy Schemes for Enterprise Development	Agril.Extension
Avenues for Sustainable Livelihoods in Village-Level Enterprises	Agril.Extension
Nutritional foods for infants and children	Home science
Value addition in Millets and oilseeds	Home Science

OFTs, FLDs and Extension studies

From October -December 2024, YFA-KVK conducted 06 OFTs (OnFarm Trails) and 12 FLDs (Front Line Demonstrations) across different disciplines. In addition to these activities, the center also conducted a comprehensive extension studies, further enhancing its outreach and impact in the technologies.

OFTs

Title	Technology advised during October -December	Area (Ha.)	No. of farmers beneficiaries
Assessment of suitable inter crops in young Oil palm orchards	Oil palm is cultivating in around 13,000 acres in KVK working area. During Juvenile phase, lot of area is left open (1st year- 95%, 2nd year- 85% and 3rd year- 70%), as the growing palms do not cover the area fully. By growing inter crops, we can utilize inter space, resources like land, light, water, nutrients, labour etc to produce more output per unit area. Inter crops reduces weed growth, soil erosion, improves soil productivity and fertility by changing the soil physico-chemical and biological properties. -Chilli and Groundnut intercropped in oilpalm. Chilli crop is in harvesting stage.	2.0	05
Assessment of Watermelon high yielding Variety Arka Muthu	Arka muthu is an icebox segment watermelon variety with dark greenish black rind, oblong fruit shape of 3-4kg weight, early (65-70 days to harvest) possessing dark red coloured, crispy, sweet (TSS-12%) flesh. Crop is in vegetative stage	0.3	03
Assessment of grafted brinjal vs. seedling brinjal under ID condition	-Grafting represents a viable alternative to solve the vegetable cultivation issues related to biotic and abiotic stresses. -T1: Brinjal graft [commercial brinjal hybrid (Eastwest Lalita) (scion) grafted on *Solanum tarvum* (root stock)] -Seedling brinjal [commercial hybrid (Eastwest Lalita)]	0.3	03
Arka Tuta Light cum Suction Trap based IPM of Phthorimaea absoluta in Tomato	-Use of light cum suction traps @ 5/ Ha -Installation of sex pheromone traps @ 20 / Ha -Release of *Trichogramma pretiosum* @ 2.5 lakhs/ Ha (5 releases @ weekly interval) -Need based spray of Azadirachtin 1 % EC @ 3 ml/ lit or indoxacarb 14.5 SC @ 0.75 ml/lit or Spinoteram 12 SC @ 1.8 ml/lit of water	0.3	03
Assessment of shedder cum mulcher in Cotton	Conducted trail on Cotton shredder cum mulcher and taken field observations and data also explained the use of Cotton shredder to reduce labour cost in removal of stubbles leftover after Cotton harvesting and the cut pieces of stubbles left in the field to increase soil fertility.	0.3	03
Assessment of protective clothing for pesticide applicators during	An Intervention was undertaken during Rabi season at Nervein, Nelvidi and Chennaram. The trial involved assessing the protective clothing based on	-	05

spraying of pesticides and fertilizers in different crops	its comfort, suitability, durability, and its impact on morbidity. With the use of protective clothing includes, cap, shirt, gloves, mask, farmers were protecting their bodies from pesticide effects		

FLDs

Title	Technology advised during October -December	Area (Ha.)	No. of farmers beneficiaries
Integrated pest management in Rabi groundnut (IPM)	-Seed treatment with Tebuconazole @ 1g/kg seed, -Installation of pheromone traps @ 5-6/acre, -Installation of Bird perches@8-10/acre, -Growing castor as Trap crop(Plucking of leaves harbouring S.litura egg masses/gregarious Larvae) -Spraying of fipronil@2ml or Thiomethaxam@ 0.4 gm per lit. -Spraying with Azadiractin1500ppm @ 5ml/lt, Emmamectin benzoate @0.5g/lit or Novaluron@ 1ml/lit. -Application of Poson bait (5kg Rice bran +0.5 kg jaggery+500ml Monocrotophos) -Spraying with Tebuconazole 1ml/lit or Tebuconazole +Trifloxystrobin@0.4gm/lit.of water(leaf spot and stem rot management)	4.0	10
Management of Fall Army Worm (FAW) in Rabi Maize	-Summer ploughing -Border crop with grain sorghum (2-4 rows advance sowing) -Seed treatment with Cynatranilliprole+ Thiomethoxam @4ml/ kg of seed -Erection of pheromone traps (FAW) @ 4 /acre at the time of sowing -Collection and destruction of egg masses (8th day onwards) -Spray Azadirachtin 10000 ppm @ 1ml/l (8 to 15 DAE) -At 5-10% infestation, Bacillus thuringensis formulation 2g/l or Metarhizium anisopliae or Beauveria bassiana 5g/l or EPN 20g/l is recommended -If infestation is more than 10%, spray Emamectin benzoate 5%SG @ 0.4 g /l or Spinosad 45% SC 0.4 ml (15-30 DAE) or Flubendiamide 48% SC @ 0.3 ml/l or chlorantraniliprole 18.5 SC @ 0.4 l/l or Spinetoram 11.7 SC@ 0.5 ml/l (30-60 DAS), applications directed in whorls.	4.0	10
Management of Leaf and Neck blast in Rice (IDM)	-Selection of seed from disease free areas -Seed treatment with carbendazim 1g/Kg seed -Adjust planting time. Sow seeds early, when possible, after the onset of the rainy season. -Keeping the bunds free from weeds. -Remove collateral weed hosts from bunds and	4.0	10

	channels -Flood the field as often as possible. -Recommended dosage of fertilizer usage -Avoid excess nitrogen -Apply N in three split doses (50% basal, 25% in tillering phase and 25% N in panicle initiation stage) -Use of resistant varieties -Spraying of Tricyclazole 0.6g or Isoprothiolane 1.5 g or Kasugamycin 2.5ml or picoxystrobin + propiconazole 2ml/l or trifloxystrobin + tebuconazole 0.4g / l or tricyclazole + mancozeb 2.5g/		
Demonstration of IPM for fruit fly in Cucurbits (Ridge gourd)	Fruit fly effectively suppressed by the male annihilation technique. Mass trapping with Cuelure traps (15/acre), Removal of cotyledonory leaves and chemical spray application (spinosad @60ml/acre or emamectim benzoate @80gms/acre, Azadirachtin 3000 ppm @ 1 lit/ acre) will reduce the fruit fly incidence. Currently the crop is in harvesting stage.	1.6	8
Integrated Crop Management in Mango	Foliar application of micro nutrient mixture in October month, foliar application of potassium nitrate (10gms) + urea (5gms) per litre of water thrice in November month, Water stress in November and December months will induce flowering. Crop is in flowering stage	4.0	10
Integrated pest Management for Rhinoceros beetle in Oil palm	-Application of course sand at the basin of young plants. -Keep Naphthalene balls in perforated sachets in inner most leaf axils. -Application of *Metarhizium anisopliae* into breeding sites (FYM, dead logs etc) -Installation of pheromone traps (oryctalure) @ 1/ac. -Spray application of Lamdacyhalotrin @ 1ml/litre of water	2.8	07
IPM for Brinjal Shoot and Fruit borer	Removal and destruction of infested shoots and fruits with bore holes to prevent population buildup. -Erect pheromone traps @12/ Ha -Release of egg parasitoid, *Trichogramma chilonis* -@ 50,000 / Ha (5 releases at weekly interval) -Spray *Bacillus thuringiensis* (Bt) formulation @ 1.5 to 2 ml /Litre of water -Need based spray of Azadirachtin 3000 ppm @ 3 ml/ lit or Flubendamide @ 0.3 gm/lit of water	0.3	03
Demonstration of Side shift rotavator	Conducted frontline demonstration on Side shift rotavator in Mango farmers field and taken field observations and explained about the technology use and operation and also benefits to the farmers.	0.2	02
Demonstration of Drone mounted sprayer in Rice	Conducted demonstrations on Drone mounted sprayer in Rice farmers field and taken field	2.0	05

	observations and explained about the technology use and operation and also benefits to the farmers.		
Demonstration of Groundnut digger cum shaker	Conducted demonstrations on Groundnut digger cum shaker in Groundnut farmers field and taken field observations and explained about the technology use and operation and also benefits to the farmers.	2.0	05
Demonstration on performance of solar drying equipment for dehydration of moringa leaves	This FLD was conducted during Rabi 2024 to use solar drying equipment for dehydration of moringa leaves. As part of the demonstration prepared Moringa spice powder and Moringa biscuits to Five SHG farmers from Pamiredipalli village. Provided Technical guidance on Packaging, labelling and storage precautions	-	05
Demonstration FLD on Value added Defatted Groundnut Cake (DFGC) Products	This FLD was conducted during Rabi 2024 on value added DFGC products provided skill on product preparation on DFGC ladoo, Biscuits, Muruku and Instant chutney mixes. Additionally, provided guidance on the packaging, labelling and storage precautions	-	10

Extension Studies

Title	Locations	No. of respondents
Impact of SCSP on Farm income and Nutritional security on SCSP beneficiaries of Wanaparthy district Telangana	KVK reports (secondary data)	-

OFTs



Assessment of suitable inter crops in young Oil palm orchards



Assessment of grafted brinjal vs. seedling brinjal under ID condition



Assessment of Water melon high yielding Variety Arka muthu



Arka Tuta Light cum Suction Trap based IPM of Phthorimaea absoluta in Tomato



Assessment of shedder cum mulcher in Cotton



Assessment of protective clothing for pesticide applicators

FLDs



Management of Leaf and Neck blast in Rice (IDM)



Integrated pest management in Rabi groundnut (IPM)



Management of Fall Army Worm (FAW) in Rabi Maize



Integrated pest Management for Rhinoceros beetle in Oil palm



IPM for Brinjal Shoot and Fruit borer



Demonstration on Value added Defatted Groundnut Cake (DFGC) Products



Demonstration of Side shift rotavator



Demonstration of Groundnut digger cum shaker



Demonstration of Drone mounted sprayer in Rice

Collaborated and sponsored programmes

YFA-KVK organized a total of 03 sponsored skill training programs under STRY during the months of October to December 2024, which were conducted by SMS (Horticulture), and SMS (Agri. Engineering) and SMS (Home Science). These programs were designed to enhance the skills of farmers, farmwomen, and rural youth in Wanaparthy district. Collectively, these training sessions benefited 45 participants, equipping them with valuable knowledge and practical skills in their respective fields.

Skill training programme on Nursery Management under STRY

In October 17th 2024, YFA-KVK initiated a six-day skill training program as part of the STRY with 16 rural youth. The programme was inaugurated by the DAO of Wanaparthy, with the SMS(Horticulture) led the programme which included theory and practice sessions that included potting mixture preparation, vegetable seed sowing in portrays, and showcased various propagation methods besides an exposure visit to commercial nurseries in Jadcherla was also conducted. The program concluded with a valedictory and certificates were distributed by Mr. N. Suresh, DHSO of Wanaparthy.





Skill Training Programme on Millet Processing and Value Addition under STRY

YFA-KVK, on October 7th initiated Skill training to rural women where in SMS (Home Science) led the programme, while Senior Scientist and Head (i/c), emphasized the growing importance of millets in market. In the training SMS (Home Science) covered bakery techniques, primary processing machinery used, cost economics for unit establishment and practical sessions where participants made millet-based products like millet bread, muffins and cookies



Skill training on Repair and maintenance of Tractor under STRY

YFA-KVK, on November 11th initiated Skill training to rural youth where in SMS (Agri.Engg) led the programme, covering different parts in tractor, its systems, operation, and safety measures. Participants visited John Deere and Mahindra showrooms as an exposure and for hands-on maintenance and repair training. Daily, weekly, and monthly maintenance checks were discussed. The program concluded with prize distribution for poster presentations and certificates for the trainees.

Significant Events

ATARI-SCSP 2024-25



Training on Vermicompost production technology to 39 farmers



Distribution of Poultry birds (Srinidhi) to 16 SC farmers



Training cum distribution programme in Black gram (var: VBN. 8 - 15 SC farmers)



Distribution of Kitchen Garden kits to 14 SC farmers

Celebration of World Soil Day, 2024

YFA-KVK organized an awareness program on World Soil Day, 2024, on December 5th, with farmers & students, The event focused on soil health, sustainable farming, and balanced fertilizer use. SMS (Agril. Extension) introduced theme & importance of soil for agriculture and food security. PA-Soil Science demonstrated soil testing and health cards. KVK SMSs shared insights on soil health practices and nutrient management for sustainable agriculture.





Swachhata Hi Seva

YFA-KVK organized the 13 program during the third quarter (October to December) in its adopted villages, focusing on cleanliness drives (off & on campus) and awareness campaigns. As part of the "Waste to Wealth" initiative, the program also promoted vermi-compost production. Hands-on training sessions were conducted for farmers on vermi-compost production, and earthworms along with vermi-compost were distributed to vegetable farmers to support their agricultural practices.

Live screening on releasing of 18th instalment of PM KISAN scheme



YFA-KVK, Madanapuram organized Live screening on release of 18th instalment of Pradhan Mantri Kisan Samman Nidhi (PM-KISAN) scheme. As part of the programme through PM kisan, over 9.4 crore farmers received ₹2,000 each, with the government spending ₹20,000 crore on this instalment. YFA-KVK telecasted this event with the participation of farmers, farmwomen and rural youth.

Live streaming of first episode of Krishi Choupal programme



YFA-KVK, on 7.12.2024 Webcasted the first episode of Krishi Choupal programme organized by Department of Agriculture and Farmers Welfare, Department of Agricultural Research and Education in association with Doordarshan and All India Radio to disseminate improved technology information among the farmers through recorded farmer-Scientist interaction. Enlighted on 54 out of 109 new varieties of different field crops released recently suitable for Rabi season.



Kisan Mela cum Agriculture Exhibition

YFA KVK took part in Kisan Mela cum Exhibition and exhibited two poster one is on IPM strategies for in Fall Army Worm in Maize and the other one is showing KVK activities for strengthening of FPOs and also displayed Paddy seed varieties (RNR 15048 and Black Rice variety) and few Millets, Groundnut value added products in ATARI stall at Diamond Jubilee celebrations on 20.12.2024 at Hyderabad.

Agro advisories (through Farmer scientist visits and Kisan Sarathi mobile advisories)

Scientists visit to Farmers fields

From October to December 2024, YFA-KVK, Madanapuram conducted 37 scientist visits to farmer fields, advising 214 farmers on crop production and protection. Key advisories included managing Fall Armyworm in maize, Integrated Crop Management in Mango, and techniques for fruit and vegetable cultivation. They also focused on Integrated Pest and Disease Management (IPDM), value addition in millets, and assessed the impact of KVK technologies at Integrated Farming System (IFS) units. Visits to Pebbair and Kashimnagar FPOs provided guidance on groundnut seed production, cold press oil units, and establishing marketing linkages.

Farmers visits to KVK

From October to December 2024, YFA-KVK received visits from 401 farmers, farm women, and rural youth seeking advice on crop production and plant protection. They received guidance on major crops such as paddy, groundnut, drumsticks, mango, and maize, as well as information on

seeds, sampling materials, farm mechanization, farmer production organizations, and value addition techniques.











Kisan Sarathi Mobile Advisories

A Total of 48 messages were sent to the 2,64,726 number of registered farmers in the areas of pest and diseases in Agriculture and Horticulture crops, Information on availability of Seed varieties during the months of October -December, 2024

Soil and Water analysis

A Total of 189 soil and water samples were analysed during the months of October - December 2024.

Capacity building programmes for Staff

S.No.	Title of the Programme	SMSs involved	Organizing agency	Duration	Location/ Venue
Training/Vocational trainings					
1	Invitation for Training Programme on "Shaping the Future of Vegetables: The Grafting Trend in Modern Horticulture	SMS (Horti.)	SKLTHU, Hyderabad	1	Mulugu
Seminars/ Conferences /Workshops					
1	Research Advisory Committee (RAC) work shop	SSH (i/c) & SMS (PP)	ATARI, Hyderabad	4	NAARM, Hyderabad
2	Workshop on promoting	SSH (i/c) &	ATARI &	1	HRS, Konda

	Soap nut in the state of Telangana	SMS (PP) & SMS (Horti.)	SKLTHU, Hyderabad		Mallepalli
	National Webinar on Garlic processing & Value addition	SMS (Home Science)	NIFTEM, Thanzawur	1	Online

Compilation and Edited by
Dr. G. Bhavani SMS Agril. Extension)

Information received from
V. Rajendra Kumar-SMS (PP)., A. Masthanaiah-SMS (Agril. Engg)., K. Suresh Kumar-SMS (Horti.)., R. Anitha-SMS (Home Sci.), K. Rajesh Kumar Reddy-Prog. Asst (Comp.) & V. Vijay Kumar-Prog. Asst (Soil Science)

Published By
V. Rajendra Kumar
Sr. Scientist & Head (i/c), YFA-KVK, Madanapuram, Mahabuabnagr-1

Mobile No: 9581262296
Mail Id: kvk_mahaboobnagar@yahoo.co.in
Website: www.yfakvkmahabubnagar.org/
Address:
Madanapuram (Village & Mandal)
Wanaparthy District
Telangana State-509110