NAVSARI AGRICULTURAL UNIVVERSITY	Department of Agronomy College of Agriculture Navsari Agricultural University Bharuch Campus, Bharuch-392012 Ph. No.-02642-246152	
Dr.J.G.Patel, Professor and Head	**Email: jgpatel@nau.in**	**Mo.09725001518**
No.NAU/COAB/AGRESCO/NRM/1896/2016		**Date: 18/03/2016**

To
All the Member
NRM Agresco Subcommittee
Navsari Agricultural University

Please find attached proceedings of 12th Natural Resource Management Agresco Sub-committee meeting held during 16th-17th March, 2016 at Navsari.

All the members are requested to go through suggestions made in the meeting and implement the same accordingly.

Members, whose recommendations and new technical programmes are accepted, are requested to incorporate all the suggestions of Sub-committee meeting and submit soft copy of corrected recommendations and new technical programmes and their power point presentation.

All the compilations and bound volume report of NRM Sub-committee of NAU is to be prepared by this office in time. Hence, it is requested to submit the recommendations and new technical programmes as mentioned above latest by 31/03/2016.

Thanking you,

(J. G. Patel)
Convener
NRM Agresco Subcommittee

PROCEEDING

12th AGRESCO SUB-COMMITTEE on NRM
Navsari Agricultural University, Navsri 396450
(16th and 17th March, 2016)

12th meet of AGRESCO SUB-COMMITTEE on NRM, Navsari Agricultural University was organized at Seminar Hall, N.M. College of Agriculture, Navsari and Training hall, Main Sugarcane Research Station, Navsari during 16th and 17th March, 2016. On this precious occasion, Hon. Vice-Chancellor, Dr. C.J. Dangaria, chaired the inaugural session. Dr. A.N. Sabalpara, Director of Research & Dean-PGS and Dr. M.K. Arvadia, Principal & Dean (Agriculture) also graced the sub-committee meet. Dr. R.R. Kaswala, Retd. Professor and Member, Board of Management also attended the meeting in technical programme session and inspired the members. Dr. C. L. Patel, Ex-Principal & Dean (Agriculture) was the special invitee to guide and encourage the young scientists of the university.

At the beginning, Convener Dr. J.G. Patel, welcomed Chairman of the inaugural function Dr. C.J. Dangaria Sir, Hon'ble Vice Chancellor , Navsari Agricultural University, Navsari. He extended warm welcomed to the Directors of Research, Deans of various faculties, Invitees, Associate Directors of Research, Senior Scientists/Professors and Young scientists. He briefly narrated the background, mandates and summary of the research activities of NRM Group and appreciate house for come with more recommendations and new technical programmes than last year. Also address the house regarding the role of NRM group in agriculture and deliberate the future thrust to sustain the productivity with changing demands of future generation. He also encouraged the newly appointed scientist and advised them to work with dedication.

While giving the opening remarks, Dr. M.K. Arvadia, Dean, Fuculty of Agriculture, NMCA, NAU, Navsari told about degradation of natural resources, how the pressure is mounting on it. He emphasized on natural recourse management, climate change and discussed about to fulfill the future needs of increasing population of country; it is necessary to increase quality produce by application of latest technologies.

Dr. A. N. Sabalpara, Director of Research in his address, stressed on gaps should be maintained between the productivity and production by the use of new agro technologies. Day by day cost of cultivation for the crop is increasing, it should be minimized through cost effective agricultural inputs. Maximum production with minimum use of inputs should be achieved by the precise application of inputs, integrated nutrient management and eco-friendly cost effective technologies. He also drawn attention to house to come with new technical programmes based on natural inputs, microbial inputs, SAP, bio compost, vermin compost, green manuring etc. Also focused on waste management, suggest to developed efficient waste recycling technologies. He motivated to centers for conducting new technical programmes.

Dr. R.R. Kaswala, Retd. Professor of SSAC advised all for interaction during all the session very effectively which will give very fruit full research recommendation and new technical programmes. He also motivates the young scientist for innovative research.

In his inaugural address, Hon. Vice-Chancellor, Dr. C.J. Dangaria, focused on natural resource management as water and soil quality is deteriorating due to mismanagement of agricultural inputs. He stressed on to develop various technologies for increasing input use efficiency and soil health management. During his talk he emphasized to take interest each and every scientist in the recommendations and new technical programmes, so that they can effectively reply any quarry regarding. He suggested to the all scientists to work with dedication, excellently and creatively. Attention should be given on problems faced by farmers, work to solve them. Finally he appreciates all for past work done in favour of NRM and hopeful for better future of agriculture.

During inaugural session, Dr. C.L. Patel, Ex-principal & Dean (Agriculture) delivered a thought provoking lecture on **"*Rhizosphere management for crop production*"** to sensitize the members about this important issues. He intertwined the topic in his lecture and expressed his views and ideas duly supported by available data and evidences.

Dr. J. G. Patel, Convener presented the action taken report on proceedings of last year which was accepted by the house.

Dr. C. K. Patel, Associate Professor proposed vote of thanks at the end of the inaugural session.

Abstract of recommendations, ongoing and new technical programme

1. Recommendations for farming community - 15
2. Information for scientific community - 04
3. Concluded experiments - 04
4. New technical programme - 51
5. Drop experiments - 04
6. Ongoing Experiments - 146

Session I

Action Taken report

Dr. J. G. Patel, Convener presented the action taken report on proceedings of last year which was accepted by the house.

Session II

Recommendation for scientific and farmers community

Chairman : Dr A. N. Sabalpara, Director of Research and Dean PGS
Co-Chairman : **1.** Dr. C. L. Patel, Retd. Dean, Agriculture
2. Dr. R. R. Kaswala Retd. Prof. and Head (SSAC)
3. Dr. M. K. Arvadia, Principal and Dean, NMCA, Navsari
Rapporteurs **: 1.** Dr. L.K. Arvadiya, Associate Professor (Agron.)
2. Dr. A.R. Kaswala, Associate Professor (SSAC)

Date : 16-03-2016

Common suggestion for all recommendation:

■For all recommendations made there should be only one P I, 1 or 2 Co-PI and 1 or 2 associates

■Write relevant zone and AES for all recommendations

SN	Experimental tile	Department /Presented by	Suggestions	Remarks
SWMRU, NAU, Navsari				
12.2.1	Effect of irrigation and sulphur levels on yields of cluster bean under South Gujarat condition	Dr V. P. Usadadia	**Approved with following suggestions** 1. Mention the depth of irrigation 2. Recast the recommendation paragraph 3. Mention the initial soil status 4. Write "at" instead of "@ " in all tables	**For farmers** Action taken by Research scientist , SWMRU, NAU, Navsari

12.2.2	Effect of irrigation and fertilizer levels on yield and quality of sugar beet grown on clay soils of South Gujarat	Dr. S. L. Pawar	**Approved with following suggestions** 1. In recommendation paragraph quantify the quantity of fertilizer and per cent value mention in brackets in both Gujarati and English 2. Instead of "soil health" write "chemical properties" in recommendation Paragraph	**For farmers** Action taken by Research scientist , SWMRU, NAU, Navsari
12.2.3	Comparative performance of water soluble and routinely used fertilizer in banana (*cv.* Grand Naine) under drip irrigation	Prof. S. L. Pawar	**Approved with following suggestions** 1. In recommendation paragraph quantify the quantity of fertilizer and per cent value mention in brackets in both Gujarati and English 2. In recommendation paragraph delete word higher net income and recommend on the basis of higher yield only.	**For farmers** Action taken by Research scientist , SWMRU, NAU, Navsari
12.2.4	Natural resources characterization in relation to banana growing areas of South Gujarat	Prof. S.L. Pawar	**Approved with following suggestions** 1. Modified the recommendation and made it for farming community rather than scientific community 2. Specify the taluka wise constraints	**For farmers** Action taken by Research scientist , SWMRU, NAU, Navsari
CSSRS, Danti/Ubharat				
12.2.5	Study on effect of land configuration and integrated nutrient management on productivity of different varieties of sorghum (*rabi*) in coastal area of South Gujarat	Dr V. R. Naik	**Approved with following suggestions** 1. Refined economics 2. Check pH value in land configuration treatments 3. Recast recommendation paragraph	**For farmers** Action taken by Research scientist , SWMRU, NAU, Navsari

12.2.6	Effect of irrigation and date of sowing on seed yield and components of *Salicornia* (*S. brachiata* Roxb.)	Dr. V. R. Naik	**Approved with following suggestions** 1. Delete economics and recast recommendation paragraph on the basis of yield.	**For farmers** Action taken by Research scientist , SWMRU, NAU, Navsari
12.2.7	Effect of manuring in organically grown garlic in coastal area of South Gujarat	Dr. V. R. Naik	**Approved with following suggestions** 1. Mention the dose of bio fertilizer *Azotobactar* and *PSB* in recommendation paragraph 2. Mention the pest and diseases status if any	**For farmers** Action taken by Research scientist , SWMRU, NAU, Navsari
MSRS, NAU, Navsari				
12.2.8.	Response of sugarcane to different plant nutrients in varied agro ecological situations	Mr. M. P. Chaudhari	**Approved with following suggestions** 1. Check and clarify soil: water ratio for pH & EC in soil analysis table 2. Mention Y x T interaction	**For scientific community** Action taken by Research scientist , MSRS, NAU, Navsari
12.2.9	Priming of cane node for accelerating germination	Mr. M. P. Chaudhari	**Approved with following suggestions** 1. Present appropriate photograph of priming and best treatment 2. Made arc sign transformation 3. In recommendation paragraph replace the word "node" by "setts" 4. Check the date of planting 5. Skip the yield parameters and recast the recommendation on the basis of germination only	**For scientific community** Action taken by Research scientist , MSRS, NAU, Navsari
Dept. of Soil Science, NAU, Navsari				
12.2.10	Effect of Land leveling by laser leveler on yield of	Dr. A. Das	**Approved with following suggestions** 1. Remove percent value of yield and mention yield on	**For farmers** Action taken by

	wheat crop		hectare basis in recommendation paragraph 2. Remove higher net income from recommendation paragraph 3. Specify the unit of uptake value 4. Present the appropriate photograph of the treatments 5. Put fuel consumption data 6. Made recommendation on the basis of water saving and yield	Research scientist , Soil Science, NAU, Navsari
12.2.11	Effect of Method and levels of FYM and Bio-compost application on the yield of pigeon-pen cv. Vaishali and soil aggregates under rainfed condition in South Gujarat.	Dr. A. Das	**Approved with following suggestions** 1. Put the contents of the manure 2. Thoroughly check all the data and totally recast the recommendation	**For farmers** Action taken by Research scientist , Soil Science, NAU, Navsari
Pulse and castor research station, NAU, Navsari				
12.2.12	Spacing and nutrient management with and without VAM for greengram *cv.* Co-4 during *rabi* season	Dr. V. M. Patel	**Approved with following suggestions** 1. Put relevant photographs 2. Mention selling price in economics 3. Use "at" instead of "@" in tables 4. In treatments, mention "AM fungi" instead of "VAM"	**For farmers** Action taken by Research scientist Pulse & Castor, NAU, Navsari
12.2.13	Studies on intercropping of Mungbean in castor	Dr. V. M. Patel	**Not Approved**	**Concluded** Action taken by Research scientist Pulse & Castor, NAU, Navsari
12.2.14	Integrated Weed Management in Castor	Dr. V. M. Patel	**Approved with following suggestions** 1. Add data on residual analysis	**For scientific community** Action

			2. Recast the recommendation paragraph in Gujarat as well English.	taken by Research scientist Pulse & Castor, NAU, Navsari
Dept. of Agronomy, NMCA, Navsari				
12.2.15	Effect of integrated nutrient management in rice-green gram cropping sequence under south Gujarat condition	Dr. N. N. Gudadhe	**Approved with following suggestions** 1. Mention "or" instead of "followed by" in recommendation paragraph 2. Specify the method of BD	**For farmers** Action taken by Professor & Head, Dept. of Agronomy, NAU, Navsari
12.2.16	Potash status in soil as affected by intensive cropping (paddy-wheat-green gram) under medium and high fertility levels with and without application of potash	Dr. N. N. Gudadhe	**Not Approved**	**Consider as ongoing experiment** Action taken by Professor & Head, Dept. of Agronomy, NAU, Navsari
12.2.17	Effect of cutting management and nitrogen levels on seed production and nutritional	Dr. R. M. Pankhaniya	**Approved with following suggestions** 1. Mention time of fertilizer application 2. Give the dose of fertilizer in kg/ha 3. Mention information on Y x T interaction	**For farmers** Action taken by Professor & Head, Dept. of Agronomy, NAU, Navsari
12.2.18	Permanent plot experiment on integrated nutrient supply system in a cereal based crop	Dr. L. J. Desai	**Approved with following suggestions** 1. Mention the quantity of FYM in recommendation para 2. Mention Y x T interaction	**For farmers** Action taken by Professor & Head, Dept. of Agronomy,

	sequence		3. First year value of soil analysis is consider as initial value for soil status	NAU, Navsari
12.2.19	Management of cropping systems for resource conservation and climate change	Dr. L. J. Desai	**Approved with following suggestions** 1. Specify the method of BD 2. Specify the minimum and conventional tillage practices in treatments	**For farmers** Action taken by Professor & Head, Dept. of Agronomy, NAU, Navsari
12.2.20	Development of organic farming package for system based high value crops	Dr LJ Desai	**Approved with following suggestions** 1. Give the quantity of FYM and vermicompost in recommendation paragraph 2. Mention the cost and dose of bio fertilizer with application charge	**For farmers** Action taken by Professor & Head, Dept. of Agronomy, NAU, Navsari
Dept. of Ag. Stat, NMCA, NAU, Navsari				
12.2.21	Application of mixed statistical distributions in fitting rainfall data of south Gujarat	Dr. S. Ojha	**Approved with following suggestions** 1. Club the recommendation in one paragraph	**For scientist community** Action taken by Professor & Head, Dept. of Ag. State, NAU, Navsari
Dept. of SSAC, ACHF, NAU, Navsari				
12.2.22.	Effect of different organic sources on yield and quality of rice grown on certified organic farm	Not Presented	**Not Approved**	**Concluded** Action taken by Professor Dept. of SSAC, ACHF, NAU, Navsari
College of Agriculture, NAU, Bharuch				
12.2.23	Effect of integrated nutrient management on the yield of	Dr. D. D. Patel	**Not Approved**	**Concluded** Action taken by

	pigeonpea cv. Vaishali under rainfed condition in South Gujarat.			Principal, College of Agriculture, Bharuch
Dediapada, NAU, KVK				
12.2.24	Effect of nipping and water management on productivity of irrigated chickpea	Dr. A. D. Raj	**Not Approved**	**Concluded** Action taken by Project co-ordinator, KVK, Dediapada

Summary :

In total **23** research recommendations were presented in 12th AGRESCO meeting of NRM.

Farming community: **15**

Scientific community: **04**

Concluded: **04**

Ongoing experiments: **146**

Session III

NEW TECHNICAL PROGRAMME

Chairman : Dr. R. R. Kasawala, Member (BoM) & Retd. Professor (SSAC)
Co-Chairman : 1. Dr. M. K. Arvadia, Dean, Agriculture **2.** Dr. A. Das, Res. Scientist (Soil Science)
Rapporteurs: 1. Dr. R. L. Leva, Associate Professor (Agron.)
2. Dr. Sonal Tripathi, Associate Professor (SSAC)

Date:17-03-2016

Sr. No.	Title	Presented by	Suggestions/comments	Remarks
Soil and Water Management Research Unit, NAU, Navsari				
12.3.1	Study on drip system layout for different row spacing of vegetable Indian bean (Var. GNIB-21)	Dr. V.P. Usadadia, Res.Sci.	1. In Observation include crude fiber, moisture distribution pattern, pest and disease incidence 2. Supporting data of pest & Diseases observations	Approved
12.3.2	Response of drip irrigated rabi sorghum to different levels of irrigation and fertigation	Dr. V.P. Usadadia, Res.Sci.	1. Remove the part of observation i.e. No.5- No. of grains per earhead 2. Include observation on nutrient mobility	Approved
12.3.3	Effect of different levels of irrigation, nitrogen and foliar application of banana sap on drip irrigated sweet corn and their residual effect on succeeding summer green gram under South Gujarat conditions	Dr. V.P. Usadadia, Res.Sci.	1. Mention volume of spray under treatment S2 (300l/ha at 30 and 500 l/ha at 60 DAS)	Approved
12.3.4	Survey on impact of 'NAUROJI Novel Organic Liquid Fertilizer' indifferent crops of South	Dr. V.P. Usadadia,	-	Approved

	Gujarat (B.H. 12026)	Res.Sci.		
MRRC, NAU, Navsari				
12.3.5	Soil test based recommendation for targeted yield of rice	Dr. Shailendra singh	-	Approved
CSSRS, Danti/Umbharat				
12.3.6	Influence of soil conditioner and integrated nutrient management on *kharif* rice and their residual effect on succeeding onion under partially reclaimed coastal salt affected soil	Dr. M.M. Patel Asso.Res.Sci.	1. Change treatment N1 as 100% RDF+10 t/ha FYM 2. Merge factor A and B as Main factor under FRBD in Rice Replication ; 4 3. Plant height at 60 DAS of Onion 4. Include observation on bolting %, pest and disease incidence , bulb volume	Approved
12.3.7	Effect of land configuration and soil conditioner, integrated nutrient management on growth and yield of radish	Dr. M.M. Patel Asso.Res.Sci.	1. In treatment word RDF 2. Sub plot INM treatment (i) add 5t/ha FYM 3. Sub plot INM treatment (iii) biofertilizer @1.25 l/ha each 4. Design : SPD instead of FRBD	Approved
Main Sugarcane Research Station, NAU, Navsari				
12.3.8	Scheduling irrigation with mulch under different sugarcane planting methods	Dr. S. C. Mali Res. Sci.	- (Project trial)	Approved
12.3.9	Carbon sequestration assessment in sugarcane based cropping system	Dr. S. C. Mali Res. Sci.	- (Project trial)	Approved
12.3.10	Agronomic performance of elite sugarcane genotypes	Dr. S. C. Mali Res. Sci.	- (Project trial)	Approved
12.3.11	Bio efficacy of some herbicides against weeds and its residual effect on sugarcane	Dr. S. C. Mali Res. Sci.	1. Remove word 'some' from title 2. Replace phytotoxicity with soil microbial analysis 3. Treatment 6: replace glyphosate	Approved

			70% with 71% 4. Treatment 7: replace 15-20DAS with 60 DAS	
Soil Science Department, NAU, Navsari				
12.3.12	Feasibility of raising cowpea genotypes (*vigna unguiculata* L. Walp) in salt affected coastal soil of South Gujarat	Dr. A. Das, Research Scientist	1. Conduct as feeler trial	Not Approved
12.3.13	Effect of varying levels of N, P and K fertilizer in combination with FYM on yield of Tania (*Xanthosomas agittifolium* (L)) leaves	Dr. A. Das, Research Scientist	1. Come through Horticulture sub committee	Not Approved
Pulses and Castor Research Station, Navsari				
12.3.14	Soil test based fertilizer recommendation for targeted yields of pigeon pea	Dr. V. M. Patel Asst.res.Sci.	1. Collaborate with Dept. of Soil Chemistry, ASPEE College of Horticulture and Forestry	Approved
12.3.15	Soil test based fertilizer recommendation for targeted yields of Indian bean	Dr. V. M. Patel Asst.res.Sci.	1. Collaborate with Dept. of Soil Chemistry, ASPEE College of Horticulture and Forestry	Approved
12.3.16	Nutrient management in Indian bean and its ratoon crop sequence	Dr. V. M. Patel Asst.res.Sci.	1. Change RDF with fertilizer dose as per treatment 2. Remove Yield observation No. 2,3, 4 and add pod yield and No. of grains per pod, crude fiber content 3. Recast plot size	Approved
12.3.17	Response of rabi castor to row spacings under different sowing window with or without intercrop of Indian bean var. GNIB-21	Dr. V. M. Patel Asst.res.Sci.	1. Take A and B as main Plot treatment 2. Change sowing window with last week of October and second week of November 3. Note : if Variety is approved in last AGRESCO than experiment will be	Approved

			conducted	
Hill Millet Research Station Waghai,				
12.3.18	Soil test based recommendation for targeted yield of Nagli (Finger millet)	Shri J. V. Patel, Asst. Res. Sci.,HMRS, Waghai	1. Targeted yield range consider from 10 to 30 t/ha	Approved
Regional Rice Research Station, Vyara				
12.3.19	Soil test based fertilizer recommendation for targeted yields of Ground nut	Dr. V.P. Patel Assoc.Res.Sci. RRRS	1. Collaborate with KVK Vyara	Approved
Agriculture Research Station, Paria				
12.3.20	Intercropping in newly established mango Orchard	Dr. Swapnil Deshmukh Asst.res.Sci.	1. Observation No. 2 replace yield with growth 2. Delete observation No. 7	Approved
12.3.21	Effect of different sowing methods and nutrient management on Indian bean var., NPS-1 (GNIB-21) sown after rice	Dr. Swapnil Deshmukh Asst.res.Sci.	1. Under nutrient management treatment change RDF with 20:40:0 2. Replication: 4 3. Add quality parameter Protein and crude fiber content	Approved
12.3.22	Scheduling irrigation along with response of mulches in Brinjal	Dr. Swapnil Deshmukh Asst.res.Sci.	1. M2; replace Sugarcane mulch @2t/ha with Sugarcane trace mulch @5 t/ha	Approved
12.3.23	Effect of tillage depth on flowering and fruiting of mango under rainfed agrosystem	Dr. Swapnil Deshmukh Asst.res.Sci.	1. Treatment T3: Replace 30 cm with 22.5cm 2. Treatment T4: Replace 45 cm with 40-45cm once in two years, cross section sub soiling 3. Treatment T5: Replace three successive years with alternate years	Approved
12.3.24	Weed control in tomato *(Lycopersicon esculentum*	Dr. Swapnil	1. Delete treatment No. 2	Approved

	Mill.) through mulching and herbicides under drip irrigation condition	Deshmukh	2. Treatment T3: Replace 30 and 60 DAS with 45 DAS 3. Observation (A) 1: remove at harvest 4. Observation (B) 3:replace 50 with 40 5. Add pest and disease incidence observation	
Main Cotton Research Station, Surat				
12.3.25	Soil test based recommendation for targeted yield of cotton	Shri. K.B. Sankat Asst.Res.Sci. MCRS	1. Targeted yield range 20, 30, 40 and 50 q/ha instead of 20, 25, 30, and 35q/ha	Approved
Main Sorghum Research Station, Surat				
12.3.26	Spacing requirement of sorghum variety GJ 42	Prof. Lalita H. Saini Asst.Res.Sci.	-	Not approved
12.3.27	Soil test based fertilizer recommendation for targeted yields of sorghum	Prof. Lalita H. Saini Asst.Res.Sci.	1. In level of N treatment, 120 kg/ha replace with 160 kg/ha 2. Collaborate with Research Scientist (Cotton) Main Cotton Research Station, NAU, Surat	Approved
12.3.28	Weed management in kharif sorghum	Prof. Lalita H. Saini Asst.Res.Sci.	1. Observation No. 10 deleted 2. Observation No. 7 change with dry weight of weed at 40 DAS and at harvest in gm/m^2	Approved
Agriculture Research Station, Cotton Research Sub-Station, Achhalia				
12.3.29	Studies on irrigation scheduling through drip, nitrogen management and mulch in turmeric	Dr. M.R. Thakur Asst.Res.Sci., NARP	1. Treatment B and C merge and recast 2. Replication: 4 3. Observation No. 2 and 4 deleted	Approved

			4. Add observation of no. of mother and finger rhizomes/plant	
Agriculture Research Station, Mangrol, Surat				
12.3.30	Response of *rabi* sorghum to anti transparent and mulching along with no. of irrigations according to critical stage approach under south Gujarat condition	Prof. J.V. Vasave Asst. Res. Sci., Mangrol	1. Irrigation and Mulch treatment in main plot 2. And antitranspirant as sub plot 3. Add weed count observation	Approved
12.3.31	Effect of different organic manures and foliar application on chickpea under south Gujarat condition	Prof. J.V. Vasave Asst. Res. Sci., Mangrol	1. Recast experiment on INM with following committee Dr. V. P. Usadadia, Dr. G. G. Patel and Dr. V. J. Zinzala	Approved
12.3.32	Study of critical period of crop weed competition in pigeonpea under south Gujarat condition	Prof. J.V. Vasave Asst. Res. Sci., Mangrol	1. Add observation of Initiation of first branches from ground level	Approved
Department of Agronomy, N.M. College of Agriculture, NAU, Navsari				
12.3.33	Effect of ZnO nanoparticles on growth, yield and quality of rice	Dr. N.N. Gudadhe Asst.Prof. NMCA	1. Trial conducted as pot culture and it should be reported in next Agresco	Approved
12.3.34	Effect of levels and sources of sulphur application on growth, yield and quality of linseed under South Gujarat condition	Prof. Sejal K. Parmar, NMCA	1. Treatment A, Level S_1 deleted 2. One absolute control treatment will be taken 3. Add Ammonium sulphate in treatment 4. Add EC. pH, OC in soil analysis	Approved
12.3.35	Integrated weed management in *rabi* maize and their residual effect on succeeding summer green gram under South Gujarat condition	Dr, V.J. Bavalgave Asst.Prof., NMCA	1. Title recast 2. Treatment T_6 toT_{10} :30 DAS replace with 40 DAS 3. Bioassay study deleted 4. Residue analysis included	Approved

12.3.36	Integrated weed management in fodder oat and its residual effect on succeeding fodder sorghum	Prof. Bhumi B. Tandel Asst.Prof., NMCA	1. Title recast 2. Bioassay study deleted 3. Residue analysis included	Approved
12.3.37	Production potential of fodder maize with different fodder intercrop	Prof. Bhumi B. Tandel Asst.Prof., NMCA	1. Delete "South Gujarat condition" from objectives	Approved
12.3.38	Integrated farming system model for marginal farmers of Navsari (Gujarat)	Dr. L. Desai Assoc.Prof., NMCA	-	Approved
Department of Soil Science & Agril. Chemistry, N.M. College of Agriculture, NAU, Navsari				
12.3.39	Preparation of P enriched Farm Yard Manure and its evaluation in *rabi* sorghum-green gram cropping sequence under South Gujarat condition	Dr. Sonal Tripathi, Assoc. Professor SSAC	1. Recast the title as "Evaluation of different phosphorus management practices in rabi sorghum-summer greengram cropping sequence under south Gujarat condition" 2. Delete objective No.1	Approved
Agricultural Meteorological Cell, Department of Agricultural Engineering, N.M. College of Agriculture, NAU, Navsari				
12.3.40	Determination of rank correlation for various weather parameter over South Gujarat	Dr. Neeraj Kumar, Assist. Prof. (Agril. Meteorology),	-	Approved
Department of NRM, ASPEE College of Horticulture and Forestry, NAU, Navsari				
12.3.41	Calibration and validation of sugarcane crop using DSSAT model for South Gujarat region.	Prof. P.K. Parmar Asst.Prof. ACHF	1. Recast the title	Approved
12.3.42	Seasonal and Diurnal variation of surface ozone at NAU campus.	Dr. S.V. Vihole Asst.Res.Sci. Envi.Sci.	-	Approved

Department of Soil Science & Agril. Chemistry, Organic Farming Unit, ASPEE College of Horticulture & Forestry, NAU, Navsari				
12.3.43	Effect of different organic source on yield and quality of sorghum varieties	Dr. P.K. Dubey Asst.Prof. SSAC ACHF	-	Approved
12.3.44	Effect of liquid manures on growth, yield and quality of green gram under organic farming	Dr. P.K. Dubey Asst.Prof. SSAC ACHF	1. Replace word vermiwash with vermibedwash under treatments	Approved
College of Agriculture, Waghai				
12.3.45	Response of little millet (Vari) to organics (In collaboration with HMRS, NAU, Waghai)	Prof. S. S. Sonwane	1. Add observation on protein content	Approved
12.3.46	Assessment of quality of irrigation water of Dangs district	Prof. J. R. Jat	1. Add boron analysis	Approved
College of Agriculture, Bharuch				
12.3.47	Response of cotton to green manuring and different fertility levels under rainfed condition.	Dr. D.D. Patel Assoc. Prof. COA, Bharuch	-	Approved
12.3.48	Response of sugarcane to tillage and different intercropping system under south Gujarat condition.	Dr. D. D. Patel Assoc.Prof. COA, Bharuch	1. Changes design a Split Plot instead of Strip Plot with four replications. 2. Change crop fenugreek (GF-1) instead of green gram in intercrops	Approved
12.3.49	Nutrient management in Dill Seed under south Gujarat condition	Dr. Seema Sharma Assoc. Prof. COA, Bharuch	1. Remove sulphur levels	Approved
12.3.50	Evaluation of castor based relay cropping sequences under rainfed condition of South Gujarat .	Dr. Seema Sharma Assoc.Prof.	1. Add Castor Equivalent Yield in observations	Approved

		COA, Bharuch		
12.3.51	N & P management in kharif sorghum with and without bio organics under south Gujarat conditions	Dr. Seema Sharma Assoc.Prof. COA, Bharuch	-	Approved
12.3.52	Agroclimatic Approach for Crop Planning	Dr. K.K. Dakhore Asst.Prof. COA, Bharuch	-	Approved
Horticulture Polytechnic Aspee College Of Horticulture And Forestry				
12.3.53	Effect of tip pruning and foliar application of KNO_3 on early flowering and yield of mango cv. Kesar	Dr. H.M. Patel Asst.Prof.	-	Approved

TECHNICAL SESSION - IV :

Review on Ongoing Research Programmes

Chairman: Dr. J. D. Thanki, Professor and Head (Agronomy)

Co-Chairman: Dr. K. G. Patel

Rapporteurs : Dr. R.B. Ardeshna and Dr. J.M. Patel

Chairman/Co-chairman reviewed the status of ongoing research programmes of NRM at each station. The members were also asked to present technical problems faced by them, if any, in conduct of experiments and need for any modification required in ongoing experiments. After thorough discussion on points/problems presented by few centres, the following decisions were taken.

Centre : Dept. of SSAC, NMCA, Navsari

12.4.1 Evaluation of DRIS approach for assessing nutritional status of banana in south Gujarat

Extensive survey and laboratory analysis based this study was proposed and approved in 9th NRM Agresco Sub-committee meeting. Due to transfer of PI of the study, department asked for permission to discontinue the study. Ex.PI of the study and Professor & Head were requested to discuss the matter with the Director of Research & Dean, Faculty of PG Studies.

Centre : Dept. of Agronomy, CoA, Bharuch

12.4.2 Effect of pre-and post-emergence herbicides on weed infestation and productivity of pigeonpea under rainfed condition of south Gujarat

PI of the experiment proposed to discontinue the experiment in view of repeated very poor germination in some weed control treatment/s. The house granted permission to discontinue the experiment.

Centre : KVK, Navsari

12.4.3 Effect of foliar spray of silicon on growth and yield of paddy

PI of the study put the matter of difficulty in silicon analysis. It was decided to collaborate the experiment with the Dept. of SSAC, NMCA, Navsari.

Centre : KVK, Dediapada

12.4.4 Response of sorghum varieties to different tillage practices under conserved moisture after *kharif* paddy (drilled)

In view of zero/low yield in zero tillage treatment resulting in erratic variation in CV%, investigator of the study asked for solution if any in statistical analysis. It was decided to consult Professor & Head, Dept. of Agril. Statistics, NMCA, Navsari for alternative/suitable method of statistical analysis.

The meeting ended with vote of thanks proposed by Prof. Jaymin Naik, Assistant Professor (SSAC), NMCA, NAU, Navsari.

Convener, NRM
NAU, Navsari