

ACTION PLAN

APRIL 2011- MARCH 2012



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POONCH

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Introduction

Krishi Vigyan Kendra Poonch has been Sanctioned by ICAR vide their communication No.2 (54)/2003-AE.II, Dated 30th March, 2007

Area under KVK, Poonch

Total land allotted (at Poonch): 3.2 ha

THRUST AREAS

- Balanced use of fertilizer in Rice and Maize
- Standardization of vegetable production techniques
- Training on budding and grafting in fruit plants
- Weed managment

ON-FARM TRIALS (OFT's)

A. CROP PRODUCTION

- a) Evaluation of wheat varieties under rainfed and irrigated conditions
- b) Evaluation of maize hybrids
- c) Weed Management in maize
- d) Management of loose smut in maize

B. PLANT PROTECTION

- a) Management of *Phytophthora* blight in tomato.
- b) Management of Chili wilt.
- c) Management of Anar butterfly in wild pomegranate.
- d) Management of leaf spot in mulberry
- e) Management of Powdery mildew in mulberry

C. HORTICULTURE

- a) Performance of different varieties of cauliflower
- b) Effect of Integrated Nutrient Management on the production of knoll-khol
- c) Effect of fertilizer doses on the yield of cabbage
- d) Effect of spacing on yield of tomato (var. Shivalik)
- e) Economy of spraying micro-nutrients on Plum.

D. AGROFORESTRY

- a) Effect of NPK doses on yield of plum (var. Chukendari) in an Agroforestry system.

TECHNICAL PROGRAMME FOR OFTs

- i. Evaluation of wheat varieties under rainfed and irrigated conditions**
 - Treatment 1: Farmers practice
 - Treatment 2: PBW 527
 - Treatment 3: HS-240
- ii. Evaluation of maize hybrids**
 - Treatment 1: Farmers practice
 - Treatment 2: KH612
 - Treatment 3: KH517
- iii. Management of loose smut in maize**
 - Treatment 1: Farmers practice
 - Treatment 2: Dithane M-45 @ 2.5 g/lt.
 - Treatment 3: Bavistin @ 2g /lt.
 - Treatment 4: Dithane M-45 (0.25%) + ZnSO₄ (0.03%)
- iv. Weed management in Maize**
 - Treatment 1: Farmers practice (Manual)
 - Treatment 2: Atrazine (Pre emergence)
 - Treatment 3: Atrazine + Hoeing 25 DAS
- v. Management of *Phytophthora* blight in tomato**
 - Treatment 1: Farmer's practice
 - Treatment 2: Planting on ridges
 - Treatment 3: Ridomil MZ (0.25%)
- vi. Management of Chili wilt**
 - Treatment 1: Farmer's practice (Flat bed + No chemical)
 - Treatment 2: Raised bed + Bavistin
 - Treatment 3: Raised bed + Dithane M-45
- vii. Management of Anar Butterfly in Wild Pomegranate**
 - Treatment 1: Farmer's practice
 - Treatment 2: Bagging of Fruits
 - Treatment 3: Spraying with Endosulphan (0.07%)

- viii. Management of leaf spot in mulberry**
Treatment 1: Farmers practice
Treatment 2: Dithane M-45 (0.2%)
Treatment 3: Bavistin (0.2%)
- ix. Management of Powdery mildew in mulberry**
Treatment 1: Farmers practice
Treatment 2: Sulfex (0.2%)
Treatment 3: Dinocap (0.06%)
- x. Performance of different varieties/hybrids in cauliflower**
Treatment 1: Farmer's practice (Snow Ball)
Treatment 2: Snow Crown
Treatment 3: Swati
- xi. Effect of Integrated Nutrient Management on the production of Knol-Khol**
Treatment 1: Farmer's practice (un balanced nutrition)
Treatment 2: FYM @ 20t /ha
Treatment 3: FYM @ 10 t/ha + ½ NPK
Treatment 4: Vermicompost @ 10t/ha
Treatment 5: Vermicompost @ 2.5 t/ha + ½ NPK
- xii. Effect of fertilizer doses on the yield of cabbage**
Treatment 1: Farmer's practice
Treatment 2: 120:60:60 (Recommended)
Treatment 3: 140:80:60
- xiii. Effect of spacing on yield of tomato (Var. Shivalik)**
Treatment 1: Farmer's practice
Treatment 2: 60 cm x 45 cm (recommended)
Treatment 3: 60 cm x 60 cm
- xiv. Economy of spraying micro nutrients on plum**
Treatment 1: Farmer's practice
Treatment 2: Zinc sulphate (0.5%) + Boric acid (0.1%)
Treatment 3: Multiplex (0.25%)

xv. Effect of NPK doses on yield of plum in an Agroforestry system

Treatment 1: Farmer's practice

Treatment 2: 500g N + 250g P + 1000g K (per plant)

Treatment 3: 600g N + 300g P + 1100g K (per plant)

TRAINING PROGRAMMES

FARMERS' TRAINING

Crop Production

S. No.	Topic	Course content	Date & Duration	Location
1.	Importance and cultivation of high yielding wheat varieties	- Yield potential of PBW-343 - Effect of diseases on PBW-343 - Yield potential of DBW – 17 - Resistance against diseases	September (One Day)	Chandak Dingla
2.	Scientific cultivation of Black gram	- Yielding ability of Uttara - Resistance against biotic and Abiotic stresses - Yield potential of variety 338 - Effect of stresses on yield of variety 338	April (One Day)	Jhallas
3.	Scientific cultivation of maize hybrids	- Importance of single cross hybrids like QPM 1, Vivek 25. - Superiority of SCHs over DCHs. - Effect of diseases on SCHs & DCHs	May (One Day)	Kanetar Mandi
4.	Diversification of Agriculture	- Importance of cereals (wheat, maize) - Advantages of pulses over cereals (chickpea, lentil etc.)	March (One Day)	Qasba Islamabad
5.	High yielding varieties of oilseeds (Gobhi Sarson, mustard, Toria)	- Yield potential of DGS-1 & GSL-1 - Resistance against diseases - Scope of oilseeds in Poonch	November (One Day)	Chandak

Horticulture

S. No.	Topic	Course content	Date & Duration	Location
1.	Scientific cultivation of Garlic	- Selection of varieties - Technique of raising seedlings - Weeding & Hoeing - Plant protection measure	September (One Day)	Mandi Dalera
2.	Importance of leafy vegetables in human diet	- Use of leafy vegetables - Cultivation of leafy vegetables -	August (One Day)	Mawndi Nangali
3.	Time & methods of fertilizer application in temperate fruits	- Recommended doses of fertilizers for temperate fruits - Time of application - Different methods of application	November (One Day)	Digwar Nangali Magnad
4.	Scientific cultivation of gladiolus & Marigold	- Selection of Varieties - Raising of nursery for marigold & corm treatment in gladiolus - After care and marketing	September (One Day)	Jhallas Chandak Digwar

5.	Organic farming in Solanaceous vegetables	- Role of organic farming - Production & Productivity of solanaceous vegetables under organic farming	June (One Day)	Chandak Magnad
6.	Pruning and training of fruit trees	- Objectives of training & Pruning - Training & pruning system - Methods of fruit thinning	November (One Day)	Bandi Chichian Loran
7.	Growing off-season vegetable crops	- Selection of Sowing time - Use of low cost poly house - Technique of raising seedlings	November (One day)	On-farm Magnad
8.	Marketing of Plum & Pear	- Grading and standardization - Packing & Packaging - Price determination - Identification of market	June (One Day)	Bandi Chichian

Plant Protection

S. No.	Title of Training	Course content	Date	Venue
1	Management of insect Pests of cole crop vegetables	- identification of major pests - identifying ETL - Physical, mechanical and cultural methods - Selection of right insecticide	November 2011	Ucchaad Magnaad
2.	Insect Pest Management in Maize	- identification of major pests - identifying ETL - Physical, mechanical and cultural methods - Selection of right insecticide	June 2011	Islamabaad Khari Dargloon
3	Management of Chili wilt	- seed bed preparation - disinfecting seed bed - precautions at transplanting - Management at fruiting stage	August 2011	Mendhar Ari
4	Insect pest and disease management in paddy	- identification of major pests and diseases - identifying ETL - Physical, mechanical and cultural methods - Selection of right chemical	July 2011	Mendhar Surankote
5	Safe use of pesticides in agriculture	- selection of right pesticide - right dose - pre-use precautions - precautions while using - post use precautions	April 2011	Magnaad Mendhar

Agroforestry

S. No.	Topic	Course content	Date & Duration	Location
1.	Integrated commercial farming through Horti-agroforestry crops	- Important horticultural crops to be taken under Agroforestry - Layout, planting techniques and time of planting. - Crops to be undertaken under Agroforestry.	March (One Day)	Jhallas Magnad
2.	Tree crop combination for planting on farmers field	- Crops & trees to be undertaken - Stem Pruning in trees - Concept of root pruning	April (One Day)	Dingla Rajpura
3.	Agro-forestry as a sustainable enterprise	- Concept of sustainability - Crops & trees to be undertaken	September (One Day)	Chandak
4.	Multipurpose trees: role and importance	- Role Concept of MPT's - Importance of MPT's - MPT's for Poonch, - time and techniques of planting	November (One Day)	Digwar Seri Khwaja

Extension Education

S. No.	Topic	Course content	Date & Duration	Location
1.	Importance of seed treatment in commercial farming	- Seed treatment chemicals - Seed treatment in vegetables - Seed treatment in cereals	March (One Day)	Kunayian Dingla
2.	Importance of soil testing	- Collection of soil samples - Sources of soil testing - Importance of soil testing.	June (One Day)	Khanetra Gundi
3.	Importance of Organic farming in Agriculture	- Concept of organic farming - Role of organic farming - Scope of organic farming in Poonch	September (One Day)	Magnad
4.	Income generating units for rural youths	- Subsidiary enterprises - Managing different enterprises	May (One Day)	Gundi
5.	Formation of Farmers Club for easy accessibility to institutional finance	- Concept of Farmers club. - Formation and monitoring - Sources of Finance	April (One Day)	Islamabad Bandi Chichian
6.	Prospects of Commodity Future Trading for farmers	- Concept of Future Trading - How to trade in commodity futures - Future trading for farmers	May (One Day)	Chandak
7.	Estimation of cost & return on field crops	- Factors of production - Calculation of Fixed & variable cost - Calculation of imputed cost - Calculation of net return, B:C ratio	September (One Day)	Seri Khwaja Jhallas
8.	Availing crop insurance against natural calamities	- Types of crop insurance - How to avail crop insurance - Formalities in availing insurance	November (One Day)	Mankote

Vocational Trainings

S. No.	Topic	Location	Duration	No. of Participants
1.	Mushroom Cultivation	Off-farm	1Week	15
2.	Bee-keeping	Off-farm	1Week	15
3.	Off-season vegetable production techniques	On-farm	1Week	15
4.	Candle making	On-farm	3 days	15
5.	Knitting	Off- farm	1Week	15
6.	Backyard Poultry	Off-farm	3 days	15

IN-SERVICE TRAININGS

S. No.	Topic	Month	Location	Duration	No. of Participants
1	Insect Pest and Disease management in Fruit crops	April	On Farm	1Day	15
2	Importance of maize hybrids over synthetics and composites	May	On-Farm	1 Day	15
3	Application of ICT in Agricultural Marketing	June	On Farm	1Day	15
4	Integration of organic farming systems for sustainable agriculture	July	On-Farm	1 Day	15
5	Agro-forestry as an sustainable enterprise	August	On-Farm	1 Day	15
6	Management of insect pests and mites of mushroom	September	On Farm	1Day	15
7	Use of Future Trading against risks in agriculture	October	On Farm	1Day	15
8	Recent advances in vegetable production	November	On Farm	1Day	15
9	Genetically modified crops and their advantages and disadvantages	December	On-Farm	1Day	15
10	Data Collection through PRA	January	On Farm	1Day	15
11	Climate Change: Indian scenario	February	On Farm	1Day	15
12	Role of Micro nutrients in vegetable production	March	On Farm	1Day	15

Front Line Demonstrations

FLD'S to be laid in 2011-12 (Proposed)

Crops	Area (ha)
A) Cereals	
a) Maize	5.0
b) Rice	5.0
c) Wheat	3.0
B) Oil Seeds	
a) Mustard	1.0
b) Gobhi-Sarson	1.0
C) Pulses	
a) Chickpea	1.0
b) Rajmash	2.0
Total	18.0

FLD'S to be laid in 2011-12 for Oilseeds and Pulses (Approved)

S. No.	Crop	Area (in ha)
A	Oilseeds	
1.	Gobhi Sarson	2.0
2.	Mustard	2.0
Total		4.0
B	Pulses	
1.	Rajmash	3.0
2.	Lentil	2.0
3.	Black Gram	2.0
Total		7.0
GRAND TOTAL		11.0

FLDs on Backyard Poultry

S. No.	Enterprise	No.
1.	Backyard Poultry (Chicks)	02

OTHER EXTENSION ACTIVITIES

- Kisan Ghosties 04
- SAC meeting 2
- Field Days Need based
- ZREAC Meeting 1
- Study the need assessment of Bee Keepers & mushroom cultivators of the district
- Base line survey of the district for identifying the thrust areas
- Awareness Programmes Needbased
- Agriclinic/Veterinary camps 04
- Radio/TV talks