

ANNUAL ACTION PLAN - 2010

1. ON - FARM TRIALS

S. No.	Title / Treatments	No. of Locations
1	<p>Studies on finding appropriate seed rate for rajmash cultivated in Lahaul Valley</p> <p>Treatments:</p> <p>T₁: 100 kg / ha T₂: 125 kg / ha T₃: 150 kg / ha (Farmers' practice)</p>	3
2	<p>Testing of newly released potato varieties for their suitability under Lahaul conditions</p> <p>Treatments:</p> <p>T₁: Kufri Girdhari T₂: Kufri Himalini T₃: Kufri Giriraj T₄: Kufri Jyoti (Farmers' practice)</p>	3
3	<p>Effect of micronutrient application in apple orchards</p> <p>Treatments:</p> <p>T₁: Soil application of ZnSO₄ @ 25 g & Borax @ 20 g per plant per year age of plant T₂: Foliar application of ZnSO₄ (0.5 %) & Boric Acid (0.1 %)-2 sprays T₃: Foliar application of Multiplex @ 250 ml / 100 litre water - 2 sprays T₄: No use of micronutrients (Farmers' Practice)</p>	2
4	<p>Effect of time of fertilizer application in apple</p> <p>Treatments:</p> <p>T₁: Recommended practice (Full dose of P and K in December - January + ½ N at 2-3 weeks before flowering + ½ N at 1 month after first application) T₂: Full dose of P and K in April + ½ N in 1st week of May + ½ N in June T₃: Application of 30 % of recommended N, P and K in November (Farmers' practice)</p>	2
5	<p>Studies on finding appropriate seed rate for pea cultivated in Lahaul Valley</p> <p>Treatments:</p> <p>T₁: 130 kg / ha (Recommended seed rate) T₂: 162.5 kg / ha (Seed rate 25 % higher than recommended) T₃: 195 kg / ha (Seed rate 50 % higher than recommended) T₄: 250 kg / ha (Farmers' practice)</p>	5

S. No.	Title / Treatments	No. of Locations
6	Testing of different french bean varieties as a second crop after the harvest of pea crop Treatments: T ₁ : Arka Komal T ₂ : Premier T ₃ : Pusa Parvati T ₄ : Contender (Farmers' practice)	2
7	Management of pea root rot / wilt complex Treatments: T ₁ : Seed treatment with <i>Trichoderma viride</i> @ 4 g / kg seed T ₂ : Soil application of <i>Trichoderma viride</i> @ 2.5 kg in 62 kg FYM / ha T ₃ : Seed treatment with Vitavax Power @ 2.5 g / kg seed T ₄ : Seed treatment with Carbendazim @ 2.5 g / kg seed (Farmer's practice)	2
8	Management of powdery mildew in pea in Lahaul Valley Treatments : T ₁ : Spray of Dinocap (Karathane) @ 0.05 % T ₂ : Spray of Hexaconazole (Contaf) @ 0.05 % T ₃ : Spray of Fenarimol (Rubigon) @ 0.05% T ₄ : Spray of Carbendazim (Bavistin) @ 0.05% (Farmers' practice)	
9	Testing of different chemicals for seed treatment of <i>Bankakri (Podophyllum hexandrum)</i> for its production under natural conditions Treatments: T ₁ : Alternate dipping in hot and cold water for 30 minutes T ₂ : Dipping in Sodium chloride (500 ppm) for 2 minutes T ₃ : Dipping in Sodium hypochlorite (500 ppm) for 5 seconds T ₄ : No seed treatment (Farmers' practice)	3
10	Standardization of spacing and harvesting time in <i>Kuth (Saussurea costus)</i> Treatments: T ₁ : Spacing of 30 cm x 30 cm and harvest after 2 years T ₂ : Spacing of 45 cm x 45 cm and harvest after 2 years T ₃ : Spacing of 45 cm x 45 cm and harvest after 3 years T ₄ : Spacing of 30 cm x 30 cm and harvest after 3 years	2

2. Trainings:

A. On – Campus

i) Practicing farmers / farm women

S. No.	Title	Month	No. of Participants
1	Precautions to be taken during purchase of agro-chemicals and methods of spray	May	20
2	Scientific cultivation of different crops grown in Lahaul Valley	June	20
3	Integrated orchard management practices	July	20
4	Efficient composting techniques	August	20
5	Utilization of medicinal plants available in the Lahaul Valley by the local people	September	20
6	Processing technology for locally available fruits and vegetables	October	20

ii) Vocational training for rural youths / school dropouts

S. No.	Title	Duration (days)	Month	No. of Participants
1	Mushroom production	2	May	15
2	Horticulture as a vocation	2	June	15
3	Cultivation of medicinal and aromatic plants suitable for Lahaul Valley	2	July	15
4	Polyhouse Technology	2	September	15

iii) *In - service* training for extension functionaries

S. No.	Title	Month	No. of Participants
1	Refresher course for the officers and extension workers of Department of Agriculture	June	15
2	Refresher course for the officers and extension workers of Department of Horticulture	July	15
3	Refresher course for the officers and employees of Department of Forests	August	15

B. Off- campus**i) Practicing farmers / farm women****Soil Science**

S. No.	Title	Month	Panchayat	No. of Participants
1	Balanced use of manures and fertilizers in pea and potato	May	Jahalma	20
2	Integrated nutrient management in oilseed and pulse crops	June	Sangnam	20
3	Efficient utilization of irrigation water	July	Koksar	20
4	Vermicompost – production and utilization	August	Barbog	20
5	Soil and water conservation techniques	September	Varpa	20
6	Soil testing and its importance	October	Nalda	20

Agronomy

S. No.	Title	Month	Panchayat	No. of Participants
1	Scientific cultivation of potato	May	Chimrit	20
2	Improved package of practices for cultivation of rajmash	June	Tandi	20
3	Cultivation of toria as a second crop after pea	July	Thirot	20
4	Improved agro-techniques for cultivation of different fodder crops	August	Geu	20
5	Safe use of herbicides	September	Darcha	20
6	Weed control in pea and potato using herbicides	October	Mooring	20

Plant Pathology

S. No.	Title	Month	Panchayat	No. of participants
1	Role of seed treatment in crop disease management	May	Shakoli	20
2	Mushroom production	June	Yurnath	20
3	Methods of spraying agro-chemicals and maintenance of spraying equipment	July	Lalung	20
4	Importance of crop rotation in crop disease management	August	Tingrit	20
5	Integrated disease management in cash crops	September	Ranika	20
6	Integrated disease management in oilseed and pulse crops	October	Udaipur	20

Horticulture

S. No.	Title	Month	Panchayat	No. of participants
1	Time and method of fertilizer application in fruit crops	May	Triloknath	20
2	Nutrient management in apple orchards	June	Lari	25
3	Pollination problems in apple orchards and supplementary pollination techniques to overcome it	July	Khangsar	20
4	Timely management practices in fruit crops	August	Hull	25
5	Improved varieties of apple and apricot for dry temperate regions	September	Kardang	20
6	Establishment of new orchards and its proper care	October	Udaipur	20

Agroforestry / Forestry

S. No.	Title	Month	Panchayat	No. of Participants
1	Agro-forestry techniques for wasteland development in Lahaul valley	May	Nalda	20
2	Cultivation of improved grasses suitable for Lahaul valley	June	Mooling	20
3	Agro-forestry techniques suitable for Spiti Valley	July	Kaza	25
4	Scientific cultivation of some important medicinal and aromatic plants	August	Thirot	20
5	Suitable methods of harvesting and storage of medicinal plants	September	Mooring	20
6	Scientific cultivation of some important medicinal and aromatic plants	October	Kolong	20

Home Science

S. No.	Title	Month	Panchayat	No. of Participants
1	Consumer education for farm women	June	Tingrit	25
2	Food adulteration and consumer protection	July	Yurnath	20
3	Consumer education for farm women	August	Shansha	20

3. Front Line Demonstration on Oilseed and Pulse Crops:

S. No.	Crop	Area (ha)
1	Rajmash	5.0
2	Toria	5.0

4. Front Line Demonstration on Other than Oilseed and Pulse crops:

S. No.	Crop	Technology	Number of Demonstrations
1	Pea	Control of weeds using herbicides	5
2	Potato	Control of weeds using herbicides	7
3	Oats	Improved variety (Palampur – 1)	5
4	Pastures and grasslands	Control of weeds in pastures and grasslands	1
5	Pea	Management of root rot / wilt complex disease	5
6	Pea	Management of powdery mildew	3
7	Potato	Management of early and late blight in potato	5
8	Pastures	Improvement of pastures through introduction of red clover	3
9	<i>Manu (Inula racemosa)</i>	Technology to get the crop ready for harvesting in two years instead of three years	2
10	Apple	Integrated orchard management practices in newly established apple orchards	2
11	Apple	Management of canker in apple orchards	2
12	French bean	Popularization of french bean cultivation as a second crop after harvest of pea	5
Total			45

5. Field Days, Kisan Mela and Exhibition:

S. No.	Activity	Month	Venue
1	Field day on Pea	June	Off -Campus
2	Field day on fodder	July	On- Campus
3	Field day on Rajmash	August	FLD Site
4	Field day on Potato	September	Off -Campus
5	Field day on Toria	September	FLD Site
6	Field day on MAPs	October	On- Campus
7	Ex - trainee Sammelan	September	On -Campus

6. Activities under One Scientist – One Village – One Technology programme

Subject	Village	Technology	Activities
Soil Science	Hinsa	Vermicomposting technology	Training programmes, Demonstrations, Distribution of extension literature, Awareness programme
Agronomy	Pimal, Mashaddi	Chemical weed control (in different crops)	
Plant Pathology	Urgosh	Seed treatment for controlling root rot / wilt complex disease	
Horticulture	Phura	Control of Zinc and Boron deficiency in apple	
Agro-forestry	Jobrang	Improvement of grasslands / pastures	
Integrated	Tingrit	All the above mentioned technologies	

7. Other Activities:

1. SAC meeting in the month of August, 2010
2. Radio / TV talks
3. Kisan Goshties
4. Film shows on latest agro – techniques
5. Advisory services
6. Visit of farmers to KVK and its demonstration unit
7. Ensuring availability of nursery of improved varieties of vegetables
8. Participation in training programmes organized by other departments
9. Demonstrations on vermicomposting technology
10. Activities of Adhoc projects on seabuckthorn, MAPs and ATMA activities