ACTION PLAN

2009

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LAHAUL AND SPITI AT KUKUMSERI – 175 142

DIRECTORATE OF EXTENSION EDUCATION

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ANNUAL ACTION PLAN - 2009

1. ON - FARM TRIALS

S. No.	Title / Treatments	No. of locations
1	**Comparative performance of different Rajmash varieties for testing their suitability under Lahaul conditions** ***Treatments*:** T_1: Kailash T_2: Kanchan T_3 : Canadian Red/Jawala T_4: Him - 1 (Farmers' practice)	3
2	**Comparative performance of different herbicides for controlling weeds in pea** ***Treatments*:** T_1: Pendimethalin @ 1.00 kg a.i./ ha as Pre - emergence T_2 : Alachlor @ 1.50 kg a.i./ ha as Pre - emergence T_3 : Fluchloralin @ 1.00 kg a.i / ha as Pre Plant incorporation T_4: Hand Weeding (Farmers' practice)	3
3	**Comparative performance of different herbicides for controlling weeds in potato** ***Treatments*:** T_1: Atrazine @ 1.00 kg a.i./ ha as Pre - emergence T_2 : Isoproturon @ 1.00 kg a.i./ ha as Pre - emergence T_3 : Fluchloralin @ 1.00 kg a.i./ ha as PPI / Pre - emergence T_4: Hand Weeding (Farmers' practice)	3
4	**Management of pea root rot wilt complex** ***Treatments*:** T_1: Seed treatment with Carbendazim (Bavistin) @ 0.25% (Dry treatment) T_2: Seed treatment with Carbendazim (Bavistin) @ 0.05% (Wet treatment) T_3 : Seed treatment with Bioagent (*Trichoderma viride*) @ 0.1% T_4 : Control (Farmers' practice)	2
5	**Management of powdery mildew in pea** ***Treatments* :** T_1 : Hexaconazole (Contaf) @ 0.05% T_2 : HMO @ 1% T_3 : Fenarimol (Rubigon) @ 0.04% T_4 : Carbendazim (Bavistin) @ 0.05% (Farmers' practice)	2

S. No.	Title / Treatments	No. of locations
6	**Standardization of spacing and harvesting time in Kuth (*Saussuria costus*)** ***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 (Farmers' Practice)	1
7	**Standardization of planting time and planting method in Manu (*Inula racemosa*)** ***Treatments*:** T_1: Planting in July-August in ridge/furrows T_2: Planting in July-August in flat beds T_3: Planting in Sept.-Oct. in ridge/furrows T_4: Planting in Sept.-Oct. in flat beds (Farmers' Practice)	1
8	**Effect of micronutrient application in apple orchards** ***Treatments*:** T_1: Soil application of $ZnSO_4$@ 25 g & Borax @ 20 g per year age of plant T_2: Foliar application of $ZnSO_4$ (0.5%) & Boric Acid (0.1 %) - 2 sprays T_3: Foliar application of Multiplex @ 250 ml / 200 litre water-2 sprays T_4: No use of micronutrients (Farmers' Practice)	5
9	**Effect of time of fertilizer application in apple** ***Treatments*:** T_1: Full dose of P & K in March + ½ N in last week of April + ½ N in May T_2: Full dose of P & K in March + ½ N in last week of April + ½ N in June T_3: Full dose of P & K in April + ½ N in last week of May + ½ N in June T_4: 50% recommended NPK in November (Farmer's Practice)	2
10	**Comparative efficacy of Deltamethrin and Artemisia extract on ecto - parasites in dairy cattle** ***Treatments*:** T_1: Deltamethrin T_2: Artemisia extract T_3: Control	2
11	**Comparative efficacy of different preparation of anthelmentics against ecto and endo parasites in dairy animals** ***Treatments*:** T_1: Closantel (Zydox) T_2: Ivermectin (trumectin) T_3: Control	2

2. Trainings:

A. On – Campus

i) Practicing farmers / farm women

S. No.	Title	Month	No. of Participants
1	Scientific weed management in pea and potato	May	20
2	Development of wastelands through different Agro-forestry Systems	June	20
3	Spraying methods of agrochemicals and their storage	June	20
4	Efficient composting techniques	July	20
5	Scientific cultivation of different fodder crops	August	20
6	Home scale preservation of locally available fruits and vegetables	September	20
7	Training and pruning in temperate fruit crops	October	20
8	Various methods of treatment of poor quality fodder to increase its nutritive value	October	20

ii) Vocational training for rural youths / school dropouts

S. No.	Title	Duration (days)	Month	No. of Participants
1	Raising of disease free nursery of vegetables / horticultural plants	2	May	20
2	Vermicomposting	2	June	20
3	Cultivation of medicinal and aromatic plants suitable for Lahaul Valley	2	July	20
4	Horticulture as a vocation	2	August	20
5	Scientific methods of housing, management and breeding of *chigu* goat	2	September	20

iii) In - service training for extension functionaries

S. No.	Title	Month	No. of Participants
1	Ecofriendly methods for disease management of cash crops	May	15
2	Improved weed management technology for controlling obnoxious weeds in orchards, grasslands and cropped areas	June	15
3	Integrated orchard management practices in apple	July	15
4	Methods and precautions in open method of surgery in case of equine castration	August	15
5	Conservation strategies for medicinal and aromatic plants	September	15

B. Off- campus:

i) Practicing farmers / farm women

Soil Science

S. No.	Title	Month	Sub Division	No. of Participants
1	Soil testing and its importance	May	Udaipur	20
2	Efficient composting techniques	June	Keylong	20
3	Balanced use of fertilizers in different commercial crops	July	Kaza	20
4	Soil and water conservation techniques	August	Udaipur	20
5	Efficient use of irrigation water	September	Keylong	20

Agronomy

S. No.	Title	Month	Sub Division	No. of Participants
1	Scientific methods of cultivation of pea & potato	May	Udaipur	20
2	Improved Rajmash production technology for high hills	June	Keylong	20
3	Control of obnoxious weeds in orchards and grasslands	July	Keylong	20
4	Cultivation of toria as a second crop after pea	August	Udaipur	20
5	Increasing productivity of grasslands and pastures by including forage legumes	September	Kaza	20
6	Scientific cultivation of different fodder crops for higher productivity	October	Udaipur	20

Plant Pathology

S. No.	Title	Month	Sub Division	No. of participants
1	Role of seed treatment in crop disease management	May	Udaipur	20
2	Precautions during purchase of agrochemicals	June	Kaza	20
3	Raising of disease free nursery under protected conditions	July	Kaza	20
4	Crop rotation: A component of disease management	August	Keylong	20
5	Integrated disease management in pulse crop	September	Keylong	20
6	Integrated disease management in oilseed crop	October	Udaipur	20

Horticulture

S. No.	Title	Month	Sub Division	No. of participants
1	Importance of pollinizers and pollinators in apple orchards	May	Udaipur	20
2	Orchard management practices in temperate fruit crops	June	Kaza	20
3	Integrated orchard management in apple	July	Kaza	20
4	Integrated orchard management in apple	August	Keylong	20
5	Harvesting, grading and packaging of apple	September	Udaipur	20
6	Training and pruning of apple trees	October	Keylong	20

Agroforestry / Forestry

S. No.	Title	Month	Sub Division	No. of Participants
1	Role of medicinal plants in crop rotation	May	Udaipur	20
2	Scientific cultivation of Kuth & Manu	June	Keylong	20
3	Collection methods of different medicinal and aromatic plants	July	Kaza	25
4	Suitable agroforestry systems for improvement of wastelands	August	Keylong	20
5	Improved grassland management procedures	September	Kaza	20
6	Scintific storage methods for different medicinal and aromatic plants	October	Udaipur	20

Veterinary / Animal Science

S. No.	Title	Month	Sub Division	No. of participants
1	Prevention and management of FMD	May	Keylong	20
2	Role of artificial insemination in breed upgradation	June	Kaza	20
3	Balanced feeding of dairy cattle to obtain optimum production	July	Udaipur	20
4	Urea – Molasses treatment of dried willow leaves as upgraded cattle feed	August	Keylong	20
5	Methods to combat *endo* and *ecto* – parasites in cattle and sheep	September	Kaza	20
6	Balanced feeding and management practices for sheep husbandry	October	Udaipur	20

Home Science

S. No.	Title	Month	Sub Division	No. of Participants
1	Food adulteration and consumer protection	May	Udaipur	20
2	Reuse of domestic waste	June	Keylong	20
3	Role of budgeting in family life	August	Udaipur	20
4	Behavioral problems in adolescents	September	Keylong	20

3. Front Line Demonstration on Oilseed and Pulse crops:

S. No.	Crop	Area (ha)
1	Rajmash	10
2	Toria	5

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

S. No.	Crop	Technology	No. of Demonstrations
1.	Pea	Seed treatment to control root rot/wilt complex	5
2.	Pea	Management of powdery mildew	3
3.	Pea	Improved Variety (PB-89)	3
4.	Potato	Management of powdery scab	2
5.	Potato	Management of early blight	2
6.	Oats	Improved variety (Palampur – 1)	5
7.	Apple	Integrated orchard management practices in newly planted apple orchard	2
8.	Apple	Management of canker in apple orchard	5
9.	Frenchbean	Popularization of Frenchbean as a second crop after pea in Udaipur sub - division	5
10.	Red clover	Grassland improvement	2
11.	Lucerne	Grassland improvement	2
	Total		**36**

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	Exhibitions at Tribal Fair	August	Keylong & Kaza
5	Field day on Potato	September	Off -Campus
6	Field day on Toria	September	FLD Site
7	Ex - trainee Sammelan	September	On -Campus
8	World Food day	October	Off –Campus

6. Demonstrations –cum - Veterinary Clinical Camps:

S. No.	Particulars	Sub Division
1	Effect of feeding uromol bricks and mineral mixture on health and production of dairy cattle	Udaipur
2	Veterinary Clinical camp on Surgery	Keylong
3	Veterinary Clinical camp on Medicine	Kaza
4	Veterinary Clinical camp on Gynaecology	Udaipur

7. Other Activities:

- SAC Meeting in the month of July and October, 2009
- Demonstration on Vermi-composting (5 No.)
- Diagnostic visits to different villages in the district
- Radio / TV talks
- Kisan Goshtis
- Participation in ATMA project activities
- Activities related to ad-hoc projects on medicinal and aromatic plants and seabuckthorn
- Crop seminar on August 25, 2009
- Collaborative/ sponsored training programmes