

OFT-1: Effect of Foliar Application of Boron on Fruit Set & Productivity of Apple

1	Title	Effect of Foliar Application of Boron on Fruit Set & Productivity of Apple
2	Problem Diagnose/defined	Poor Fruit Set
3	Details of technologies selected for assessment/refinement	Foliar Application of Boron at fruit development stages
4	Source of technology	SKUAST -K
5	Production system thematic area	Crop production
6	Thematic area	Crop Production
7	Performance of the Technology with performance indicators	Satisfactory
8	Final recommendation for micro level situation	Needs repeated trials
9	Constraints identified and feedback for research	Adoptability
10	Process of farmer's participation and their reaction	Satisfactory

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Apple	Rainfed/ irrigated	Poor fruit set	Effect of Foliar Application of Boron on Fruit Set & Productivity of Apple	03	Foliar application of Boron at 03 stages.	Fruit yield	Table Below		Satisfied

Table (Ongoing)

Crop	Parameters	T1	T2
Apple	Fruit set	No spray (Farmers practice)	Three sprays of Boric acid @1.5g/litre at Bud swell, stage after petal fall and 21 days after 2 nd spray
	Yield	On Going	

OFT-2: Soil and Foliar Application of Potassium for Color Development

1	Title	Soil and Foliar Application of Potassium for Color Development.
2	Problem Diagnose/defined	Poor fruit color
3	Details of technologies selected for assessment/refinement	Foliar Application of Potassium at fruit development stages
4	Source of technology	SKUAST-K
5	Production system thematic area	Crop production
6	Thematic area	Crop production
7	Performance of the Technology with performance indicators	Satisfactory
8	Final recommendation for micro level situation	Needs repeated trials
9	Constraints identified and feedback for research	Adoptability
10	Process of farmer's participation and their reaction	Satisfactory

Results of On Farm Trial

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Apple	Rainfed/irrigated	Poor fruit color	Soil and Foliar Application of Potassium for Color Development	03	Foliar Application of Potassium at 02 stages	Quality improvement & yield	Table Below		Satisfied

Table

Crop	Parameters	T1	T2
Apple	Fruit Color	(Soil application of potassium as basal dose) (Farmer's Practice)	One foliar spray of Potassium @ 1.5% (15g /litre) at fruit development stage (iv) and repeat after 21 days.
	Yield	On going	

OFT-3: Performance of Capsicum Hybrid on Raised Bed.

1	Title	Performance of Capsicum Hybrid on Raised Bed
2	Problem Diagnose/defined	Low yield
3	Details of technologies selected for assessment/refinement	Seedling dip in carbandazim 50 w.p (0.1%) for 30 min before transplanting of seedling
4	Source of technology	SKUAST-K
5	Production system thematic area	Crop production
6	Thematic area	Crop production
7	Performance of the Technology with performance indicators	Yield was increased, fruit size was good.
8	Final recommendation for micro level situation	Apply sufficient quantity of well decomposed FYM along with recommended dose of NPK before transplanting
9	Constraints identified and feedback for research	Less availability of hybrid seeds
10	Process of farmer's participation and their reaction	Learning by doing & seeing is believing

Results of On Farm Trial

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Capsicum	irrigated	Low yield	Performance of capsicum hybrids on raised beds	04	SKUAST-K	Yield parameters	Refer to Table	Refer to table	satisfactory

Table

Bed size 3m*4m=12m²

Treatments	Location 1	Location 2	Location 3	Location 4
T1: Local variety on flat bed.	Yield per bed 18 kg	Yield per bed 15 kg	Yield per bed 14.3 kg	Yield per bed 17.2 kg
T2:Shalimar capsicum hybrid-2 On flat bed	48 kg	47.5kg	45.8kg	48.6 kg
T3: Shalimar capsicum hybrid -2 On raised beds	60 kg	61.5 kg	57.4kg	52.6kg

OFT 4: Nutrient fungicide compatibility in apple

1	Title	Nutrient fungicide compatibility in apple
	Problem Diagnose/defined	water core, bitter pit
3	Details of technologies selected for assessment/refinement	Calcium with fungicide
4	Source of technology	SKUAST-K
5	Production system thematic area	Crop production
6	Thematic area	Fruit Quality
7	Performance of the Technology with performance indicators	Satisfactory
8	Final recommendation for micro level situation	Needs repeated trial
9	Constraints identified and feedback for research	Adoptability
10	Process of farmer's participation and their reaction	Satisfactory

Results of On Farm Trial

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Apple	Irrigated & un-irrigated	water core, bitter pit	Nutrient fungicide computability in apple	03 Faqirgujri Darbagh Taibal	Use of nutrient with fungicide	Compatibility and physical disorders	Table given	Continued	Satisfied

Table

Variety	Yield: kg/tree			Disease incidence %			Effect of Ca on fruit firmness (lb.psi)		
	Faqirgujri	Darbagh	Taibal	Faqirgujri	Darbagh	Taibal	Faqirgujri	Darbagh	Taibal
T1: *	149.24	146.52	155.78	17.2	21.9	18.3	16.16	15.36	16.06
T2: **	155.36	159.43	163.57	1.3	2.7	2.1	16.76	16.46	17.01
T3:***	158.87	162.81	165.43	0.7	1.6	1.1	17.09	16.67	17.19

T1*: Farmers: Practice, Separate use of Fungicides & Nutrients

T2** : Calcium Chloride 0.3% + Mancozeb

T3*** : Calcium Chloride 0.1% +Chelated Calcium 0.1%+ Mancozeb

OFT.5: Management of cut worm in vegetables

1	Title	Management of cut worm in vegetables
	Problem Diagnose/defined	Cut worm damage
3	Details of technologies selected for assessment/refinement	Drenching of Alphamethrin, carbofuron granules application.
4	Source of technology	SKUAST-K
5	Production system thematic area	Crop production
6	Thematic area	IPM of cutworm
7	Performance of the Technology with performance indicators	Performance of the technology satisfactory in controlling cutworm damage
8	Final recommendation for micro level situation	In case of severe infestation / quick knockdown application of alphametrin may be carried out
9	Constraints identified and feedback for research	-
10	Process of farmer's participation and their reaction	Farmers were cooperating and got satisfied

Results of On Farm Trial

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Chilli& Kale	Irrigated	Cut worm	Management of cut worm in vegetables	02 Noorbagh Narkura	Application of Alphametrin	Plant mortality	See table	Satisfactory	Satisfied

Treatments	Plant Mortality (%)
T1 Farmers practice	29
T2 Soil application carbofuran granules 32 kg/ha	13
T3 Alphamethrin drenching @ 1.2 ml / liter of water	03

OFT-6: Management of Chilli Wilt

1	Title	Management of Chilli Wilt
	Problem Diagnose/defined	Fusarium wilt
3	Details of technologies selected for assessment/refinement	Carbendazium drenching and application of <i>Trigodermaharzianun</i>
4	Source of technology	SKUAST-K
5	Production system thematic area	Crop production
6	Thematic area	IDM in Chilli
7	Performance of the Technology with performance indicators	Application of <i>trigodermain</i> compost & mixed with soil followed by carbendazium showed best results in management of chilli wilt
8	Final recommendation for micro level situation	<i>Trigoderma</i> application should be done in compost
9	Constraints identified and feedback for research	-
10	Process of farmer's participation and their reaction	Farmers were cooperating and got satisfied

Results of On Farm Trial

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Chilli	Irrigated	Wilting of seedlings	Management of chilli wilt	02 Noorbagh Narkura	Application of trigoderma followed by drenching of carbendazium	Plant mortality	See table-	Satisfactory	Satisfied

Treatments	Plant mortality (%)
T1	Farmers practice 35
T2	Seed/ seedling treatment followed by drenching with carbendazium 11
T3	T2+ Application of trigoderma 06

OFT-07: Solid Waste Management using Waste Decomposers

1	Title	Solid Waste Management using Waste Decomposers
	Problem Diagnose/defined	Soil, water/air pollution
3	Details of technologies selected for assessment/refinement	Use of waste decomposing bacteria (Shalimar microbes) for decomposing solid waste
4	Source of technology	SKUAST-K
5	Production system thematic area	Production of input at site
6	Thematic area	Composting
7	Performance of the Technology with performance indicators	
8	Final recommendation for micro level situation	
9	Constraints identified and feedback for research	
10	Process of farmer's participation and their reaction	Participatory

Results of On Farm Trial

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Solid waste management	Low level of waste mgt.	1. Solid, water and air pollution. 2. Hazardous effects on crops.	Solid waste management using waste decomposers.	4	Use of SKUAST-K Shalimar microbes for solid waste management.	1.yield 2.quality compost 3.time taken for composting	On going		Reaction is good

T1: Farmers practice

T2: Waste decomposing bacteria (Shalimar microbes)

OFT-08: Efficiency of *Eiseniafetida* Earthworm Species for Vermicomposting

1	Title	Efficiency of <i>Eiseniafetida</i> Earthworm Species for Vermicomposting
	Problem Diagnose/defined	Improper method of preparation of compost.
3	Details of technologies selected for assessment/refinement	Use of <i>Eiseniafetida</i> cold tolerant vermiculture for vermi-composting
4	Source of technology	SKUAST-K
5	Production system thematic area	Production of input at site
6	Thematic area	Composting
7	Performance of the Technology with performance indicators	Continuing
8	Final recommendation for micro level situation	
9	Constraints identified and feedback for research	
10	Process of farmer's participation and their reaction	Participatory

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Eiseniafetida earthworm species for vermicomposting	Improper method of vermicomposting	Improper Method of preparation of compost.	Efficiency of <i>Eiseniafetida</i> earthworm species for vermicomposting	03	Use of earthworm for vermicomposting	Yield Quality of Compost Time taken for composting.	On Going		Reaction is good

T1: Farmers practice

T2: *Eisenia Fetida* cold tolerant culture.

OFT-9: Socioeconomic upliftment of farm women through rearing of elite strains of backyard poultry birds.

1	Title	Socioeconomic upliftment of farm women through rearing of elite strains of backyard poultry birds
2	Problem Diagnose/defined	Low income of farm women
3	Details of technologies selected for assessment/refinement	Propagation of elite strains of backyard poultry birds
4	Source of technology	SKUAST –K
5	Production system thematic area	Poultry production
6	Thematic area	Backyard poultry
7	Performance of the Technology with performance indicators	Trial is still ongoing
8	Final recommendation for micro level situation	Yet to be finalized
9	Constraints identified and feedback for research	Yet to be identified
10	Process of farmer’s participation and their reaction	Participatory

Results of On Farm Trial

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Poultry		Low income	Socioeconomic upliftment of rural women through rearing of elite strains of backyard poultry	10	Performance of elite strains of backyardbirds	Egge production and weight gain	On Going		Satisfied

Table

Crop/Enterprise	Parameters	T1	T2
Poultry	Egg production	Desi birds	Elite backyard birds
	Weight gain	Desi birds	Elite backyard birds

OFT-10 Integrated Fish-duck- vegetable and poultry farming for maximizing Returns.

1	Title	Integrated Fish-duck- vegetable and poultry farming for maximizing returns
2	Problem Diagnose/defined	Less returns and manuring of pond
3	Details of technologies selected for assessment/refinement	Integrated farming for maximizing returns
4	Source of technology	SKUAST -K
5	Production system thematic area	Animal Production
6	Thematic area	Integrated farming
7	Performance of the Technology with performance indicators	Trial is ongoing
8	Final recommendation for micro level situation	Yet to be finalized
9	Constraints identified and feedback for research	Yet to be identified
10	Process of farmer's participation and their reaction	--

Results of On Farm Trial

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Livestock/IFS		Less returns and manuring of pond	Integrated Fish-duck-vegetable and poultry farming for maximizing returns	10	integrated farming system	Income generation, net profit	On Going		---

Table

Crop/Enterprise	Parameters	T1	T2
Livestock/IFS	Income Generation, Net Profit	Traditional Method	Integrated Fish-Duck- vegetable and Poultry Farming