

# Annual Progress Report 2019

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## On Farm Testing (Discipline-Wise Summary)

Discipline	Crop / Enterprise	Number of technology/ Social Concept		No. of trials		% of achievement	Reasons for shortfall, if any
		Assessed	Refined	Target	Achievement		
Horticulture	Gladiolus	1	-	3	3	100 %	
	Cabbage	1	-	3	3	100 %	
Plant Protection	Brinjal	1	-	3	3	100 %	
	Mustard	1	-	3	3	100 %	
AH & Vety	Low cost Pigpen model	1	-	3	3	100 %	
	Duck cum fish Culture	1	-	3	3	100 %	
Agril. Ext	Mushroom	1	-	10	15	220 %	
	Impact analysis on soyabean	1	-	10	10	100 %	
Home Science	Introduction of weaning food	1	-	5	5	100%	
	Arka High Humidity Storage box	1	-	5	5	100%	
<b>Total</b>		<b>10</b>		<b>48</b>	<b>53</b>		

# ON FARM TRIA L-1 : Plant Protection

## Title: Management of Bacterial wilt of brinjal. (Var. NS 797) :

✓ **Problem with severity : Low yield due to high incidence of wilt disease**

✓ **SOT: IIHR, Bangalore, 2012**

✓ **Location : Lobo**

✓ **No. of trials : 3**

### Methodology :

1. Seed treatment by dipping it in a solution of Streptocycline (1g/40 lt of water) for 30 minutes.
2. Roguing of wilted plants and the soil surrounding their roots.
3. Soil solarisation.
4. Cultivation of resistant variety
5. Spacing 75cm x 60cm



### Observations recorded

Parameters	Tech	F.P
Yield	267q/ha	176q/ha
Wilt incidence (%)	5 %	38%
Plant height	85cm	83cm
No. of fruits/plants	35	28
Cost of cultivation	2,00,000	1,80,000
Gross return	5,34,000	3,52,000
Net return (Rs/ha)	3,34,000	1,72,000
BC ratio	2.67	1.95

# ON FARM TRIAL-2 : Plant Protection

## Title of OFT : Organic Management of Insect Pests in Mustard

- **SOT : ICAR-NOFRI , Sikkim Centre, 2014**
- **No. of trials : 3**
- **Problem diagnosed : Low yield due to severe pests infestation**

### Methodology :

- Periodical weeding .
- Roguing of wilted plants and the soil surrounding their roots.
- Irrigate the crop in the 4<sup>th</sup> week after sowing.
- Collection and destruction of larvae.
- Removal of the aphid infested leaves/plants at the initial level of attack .
- Need based and judicious application of *Bacillus thuringiensis* @ 2g /lit or Neem oil @ 3ml/l of water followed by second spraying at 20 days interval.
- Soil solarization.
- Spacing - 15x15cm



### Observations recorded

Parameters	Tech	F.P
Yield	7.45 q/ha	5.682q/ha
Plant height	82.6 cm	82.6cm
Average no. of seed/siliqua	8.2	7.9
Average no. of siliqua/plant	193.3	186.4
Maturity	130 days	131 days
Cost of cultivation (Rs.)	65,000	60,000
Gross return (Rs.)	1,49,000	1,16,000
Net return (Rs/ha)	84,000	59,400
BC ratio	2.29	1.96

# ON FARM TRIA L-1 : Horticulture

## Title: Performance evaluation of Gladiolus

- **Problem diagnosed** : Insufficient availability of cut flowers in the district.
- **S.O.T- IIHR, 2012**
- **No of trials** : 3
- **Location**: Council Vaih & College Vaih

**Methodology** : Spacing :30cmx30cm  
**Variety**: Arka Gold & Arka Kesar, Arka Amar, Pusa Manmohak, Pusa Vidushi

### Observations recorded

Parameters	Tech	F.P
Plant height	69.8 cm	58.1 cm
Number of flora per spike	10.6	8.1
Yield : 1,25,000 spike / ha	1,40,000 spike / ha	1,25,000 spike / ha
Gross cost	6,00,000	4,20,000
Gross return	14,00,000	7,98,000
Net return (Rs./ha):	8,00,000	3,78,000
BC Ratio	2.3	1.9



# ON FARM TRIAL-2 : Horticulture

**Title: Scientific management on cultivation of cabbage.**

**Major problem diagnosed:** Low yield of cabbage due to non practice of scientific management

**S.O.T- AAU :** Jorhat, 2012

**No. of trials:** 3

## Methodology :

- Time of Planting(sowing): 1<sup>st</sup> week of August.
- Spacing :45cmx45cm
- Variety : var. Rare Ball
- Severity of problem (%): 41%

## Observations recorded

Parameters	Tech	F.P
Plant height (cm)	28.6	14.2
Number of leafs	11.2	7.4
Curd size/dia (cm <sup>2</sup> )	14.6	8.7
Yield (t/ha)	21.04	14.2
Gross cost (Rs.)	1,70,000	86,500
Gross return (Rs.)	5,26,000	2,43,250
Net return (Rs.)	3,56,000	1,56,750
BC Ratio	3.0	2.80



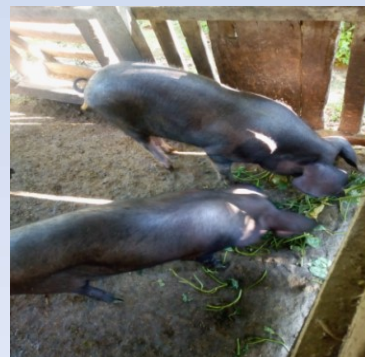
# ON FARM TRIA L-1 : Animal Science

## Low Cost climate resilient pig pen model

- **Problems with severity:** Poor housing materials in extremes of weather
- **SOT :** Division of Livestock production, ICAR RC for NEH region, Umiam, - 2013

- **No. of Trials :** 3
- **No. of Farmers :** 3
- **Location :** College vaih

- **Technology details :** Deep litter materials like sawdust, hay etc is provided to provide favourable environment during winter season and a ceiling with bamboo thrash provided during summer. Good ventilation maintained at all season



Parameters	Techno	FP
Physiological adaptation	Significantly good	Fair
Body increment at 3 months interval	5 inches	3 inches
Disease incidence (leg problem, skin disease, diarrhea, respiratory problems, :	NAD	Skin infection occurs in 5 pigs
Mortality :	Nil	Nil

# ON FARM TRIA L-2 : Animal Science

## Integrated Farming- Duck & Fish Culture (ICAR, CAU, Selesih.2013)

**Problems with severity :** i) Lack of knowledge on integrated farming ii) Low production of fish & duck in the district

**No. Of trials :** 3

**Remark for recommendation for FLD:**  
Recommended for FLD and popularization

• Results/ observation on selected parameters

➤ **Techno :**

- **Adaptability of duck : significantly good**
- **Monthly weight increment of both duck & fishes**
- **Duck : 650g at 3 months**
- **Palatability & farmers acceptance of the fishes fed with duck excreta and wastes : Recommended for consumption**
- **Health status of both duck & fishes : No Abnormality Detected (NAD)**
- **Quantity of fish sold : 505 nos @ Rs 300 / kg**
- **Gross cost : 47,000/-**
- **Gross return : 1,51,000 /-**
- **Net return : 1,05,000**
- **Farmer Practice: Not practiced by farmers in the district**
- **BC Ratio : 3.2**

**Methodology :** Pond selected for integrated fish culture was drain out. Basal fertilization of the pond was done using cattle dung @ 150kg/0.03 ha. 6.5kgs of lime was applied for correction of pH. *Fencing provided for the duck.* Duck were allowed free range in the pond ( 9 Am to 5 Pm) Night dropping was collected and left under the sun in the morning hours and applied directly in the corner of the fish pond in the morning hours.



Species	Wt . at 3 months	Length at 3 months
Catla	220 g	180 mm
Common carp	200 g	200 mm
Grass carp	320 g	220 mm
Mrigal	300 g	200 mm
Rohu	300 g	200 mm



## ON FARM TRIAL-1 : Home Science

**Title: Introduction of weaning food (Assam Mix)**

**SOT: AAU, Jorhat (Food & Nutrition Deptt.), 2013**

**Problems with severity :**

- 1) Lack of knowledge on preparation of Nutritious baby food.
- 2) Mal-nutrition on growing infants.
- 3) High cost of ready made baby food.

**No. of trials : 10**

**Methodology : 10 babies of 6 months were selected.**

Basic formula of Assam mix : 1.Pithaguri – 70g 2.Ground nut flour – 5g  
3. Green gram flour-20g 4. Sesame flour – 5g Porridge with milk, add little jaggery or Sugar.

**Parameters of Assessment.**

- a) Hb level test at 6, 9 & 12 months : Mean Avg: 11.5- 12.9 - 14.4 gm/dL
- b) Avg. growth rate of Infant. (Ht & Wt at 6, 9 & 12 months) :  
Ht : 60.7, 64.9 & 71 cms. Wt : 7.5, 10.9 & 11.8 Kgs.
- c) General Health Status : General Health status of a selected babies reached beyond expectations.



## ON FARM TRIAL-2 : Home Science

**Arka High Humidity Storage box for storage of green leafy vegetables**

**Problems with severity :**

- 1) High post harvest loss
- 2) No proper food storage techniques.

**No. of trials : 5**

**Methodology : Arka High Humidity Storage Box (500x325x200x6mm thick for storing green leafy vegetables.**

**Parameters of assessment :**

**Acceptability by farmers :** Farm women in the area highly accepted the technology.

**Suitability :** The box is suitable for farm women who sells leafy vegetables.

**Shelf life :** Leafy vegetables can be stored 48 hours in room temperature (26–28o C)



## ON FARM TRIAL 1 : Agricultural Extension

### Impact assessment on Training of Mushroom cultivation

**Methodology:** 1) Door to door visit for collection of data.

#### Observations recorded

Parameters	Tech
Rate of mushroom per kg	Rs 350
Cultivation cost	Rs 1300 -3000
Avg income per month	Rs 28,000
Adoption %	100
Farmer feedback	Very good



**No. of Trainee: 15**



## ON FARM TRIAL 2: Agricultural Extension

### Impact analysis on Soybean cultivation

**Methodology:** 1) Door to door visit for collection of data.

**No. of farmer: 10**



#### Observations recorded

Parameters	Tech
Avg. Cost of Production	Rs 8500
Cost of soyabean /kg	Rs 100
Avg income per year/ha	Rs 32,000
Adoption %	100
Farmer feedback	Good

# Farm Activities



THANK YOU ALL



Ei Chaley

