



SENAPATI DISTRICT

Inventory of Agriculture 2015



ICAR - Agricultural Technology Application Research Institute, Umiam (Barapani)
Ri- Bhoi District, Meghalaya - 793103



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FOREWORD

The ICAR-Agricultural Technology Application Research institute, Zone-III with its headquarters at Umiam, Meghalaya is primarily responsible for monitoring and reviewing of technology assessment, refinement, demonstrations, training programmes and other extension activities conducted by the *Krishi Vigyan Kendras* (KVKs) in North East Region, which comprises of eight states, namely Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura. The directorate also serves as feedback mechanism to research and extension systems while maintaining a very close liaison with ICAR headquarters and has made significant progress in research, capacity building and other extension activities which ultimately contributes for the planned growth and development of North Eastern Region of India.

Through this District Agriculture Inventory publication, an attempt has been made to compile and publish information about KVK district and agriculture in district, in a meaningful and comprehensive manner. It will be very useful for all stakeholders of agriculture in district. The inventory encompasses the information regarding geography of district; basic data about agriculture and district population, crops, institutional resources, agriculture relates schemes in district which also covers agriculture, fishery and livestock sector. The district inventory in the form of e-publication will surely increase the digital presence and penetration of KVKs. The inventory will also serve the communication needs of farmers and youth in district as it contains contact numbers and address related information to access various developmental agencies in district.

I congratulate the efforts of staff of KVK for collecting and compiling such a large volume of information in systematic manner. I also acknowledge the efforts of editors and other staff members of this institute for publishing this document on our website.

Umiam
18-03-2016

(Dr. Bidyut C. Deka)
Director,
ICAR-ATARI-Umiam,
Meghalaya-793103

PREFACE

The synthesized compilation in the form of informative publication is of much value for decision making. The compiled information in this publication will immensely help farmers and other stakeholders of agriculture and allied sector of a district such as line departments, research organizations, planners, policy makers, input providers etc. Through this document, we are trying to provide entire gamut of information related to district and its agriculture setting for the benefit of farming community of the North Eastern Region. The connectivity related issues in the North Eastern region makes the information inaccessible to most of stakeholders. Therefore, the *Krishi Vigyan Kendras* in each district of North East region undertook this cumbersome task to compile the district Agricultural Inventory. This publication provides the latest information about district, agriculture and other essential constituents.

We, the editors of this publication, earnestly thank and acknowledge the contribution of all compilers i.e. Programme coordinator, Subject Matter Specialists and Programme Assistants of KVK Senapati for taking part in compiling the huge information to shape up Senapati District Inventory of Agriculture-2015. We also thank all officers of ICAR H.Q. for guiding us time to time and motivating us to complete this publication.

We, the editors, dedicate this publication to the farming community of Senapati District and we look forward to contribute more for the betterment of farming community in entire North East Region. We also welcome the suggestions for further improvement.

Umiam
18-03-2016

Editors

From the Desk of Programme Coordinator, KVK Senapati



The Krishi Vigyan Kendra of Senapati District, Manipur is hosted by Foundation for Environment & Economic Development Services (FEEDS) a registered NGO (Estd. 1988). KVK-Senapati is the first KVK come up in the Hill district of Manipur. It has financial and technical support from ICAR, New Delhi through ATARI, Zone-III, Shillong (formerly ZPD, Zone-III) and is under the supervision of FEEDS, its host institute.

Transferring appropriate Agri-technologies to the local/tribal farmers for improving their quality of life is the main goal of KVK-Senapati. It has undertaken various on-farm trial (OFT) for refinement and front line demonstration (FLD) on various farm activities/enterprises for better and increased productivity.

Conducting hands on training (short and long) on skill development and exposure to agri-industry is a specialty of this KVK. It has developed good linkages with govt. departments, research institutes, universities, social organizations, farming communities in the state and outside. These exposures and trainees in polishing and tuning themselves to the needs of agriculture and horticulture so as to procure better and steady livelihood options.

We appeal to the farmers and rural youths of the hill communities to make use of opportunities and facilities available and its excellent atmosphere for skill training at KVK-Senapati.

(N. Jyotsna)

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Map showing location of KVK and its operational area



Table:

1) Climate of Senapati District:

Sl no.	Agro climatic zone	Characteristics
1	Mid- tropical hill zone	The agro- climatic zones of this region is characterized by warm summer and cold winter. The major soil formation in the area includes shallow to very deep, loamy, lateritic, red and yellow soil
	Temperate sub-alpine zone	

2) Details of forest in Senapati District:

Sl no	Type of forest cover	Area in sq km
1	Very dense	233
2	Moderately dense	940
3.	Open forest	1130
Total		2303

Source: Forest department, GOM, 2009-10.

3) Population and literacy in Senapati District (2011 census)

Sub- division wise population

Sl no	Sub division	Population (nos)		Total	Literacy
		Male	Female		
1.	Mao-Maram	84285	79095	163380	Overall literacy rate of the district is 59 %
2.	Paomata	27912	25989	53901	
3.	Purul	36218	31905	68123	
4.	Sadar Hills West	36498	35346	71844	
5.	Saitu Gamphazol	30869	27667	58536	
6.	Sadar Hills East	31541	31823	63364	
Total		247323	231825	479148	

4) Land use pattern of Senapati District:

Sl no	Description	Area (in ha)
1	Agricultural land- Aquaculture/Pisciculture	7.62
2.	Agricultural land- Crop land-Kharif crop	24802.27
3.	Agricultural land- Plantation- Agriculture pint	1544.14
4.	Build up-build up (rural)- build up area (rural)	4622.45
5.	Build up-build up (Urban)- mixed build up area	227.17

6.	Forest evergreen/ semi evergreen-dense/closed	61700.23
7.	Forest evergreen/ semi evergreen-open	47970.89
8.	Forest- forest blank	2697.80
9.	Forest- forest plantation	67.39
10.	Forest- scrub forest	68426.03
11.	Others-shifting cultivation-Abandoned	1565.16
12.	Others-shifting cultivation-current	1363.42
13.	Tree clad area- closed	54000.80
14.	Tree clad area- open	28795.28
15.	Wastelands- Scrub land- dense scrub	35115.96
16.	Wastelands- Scrub land- open scrub	26290.01
17.	Water bodies- lakes/ponds-perennial	31.63
18.	Water bodies- river/stream-perennial	1332.35
19.	Wetlands-Inland natural	18.80

5) Land Share of major crops under irrigation in Senapati District (2010-11):

Sl.	Crops	Area (ha)	Source of irrigation	Land share in percentage
1.	Rice	0.3830	Stream/ ponds	0.002
2.	Maize	30	Stream/ river	2.06

6) Details of soil series and crop grown in Senapati District:

Sl .	Soil series	Crop grown	Area in percentage
1	Alluvial	Paddy, Potato, Oilseed, horticultural crops	-
2	Red	Maize, Horticultural crops	-
3	Hill	Temperate and sub- tropical fruit plants, potato and horticultural crop	-

7) Area, production and productivity of major crops in Senapati District (2011-12)

Sl no.	Major crops	Area in 000' ha	Production (tones)	Productivity (kg)
1.	Rice	17.04	34.75	2038.62
2.	Maize	1.45	0.83	569.53

8) Production (meat, milk and egg) and productivity of livestock including poultry in Senapati District (2011-12)

A.

Sl no	Livestock	Production	Productivity
1.	Cattle	1.44*	-
2.	Sheep and goat	0.12*	-
3.	Pig	1.06*	-
4.	Poultry	0.26*	-
5.	Milk	11.00*	-
6.	Egg	105.05**	-

Note: * = thousand tones **= number in lakhs

B.

Sl no	Livestock	Population in number
1.	Bovine	871184
2.	Pig	62387
3.	Dog	25461
4.	Sheep/goat	14226
5.	Horse/pony	248
6.	Poultry/ birds	260226

Source: District Veterinary office (2013-14)

9) Factors affecting productivity of major crops in Senapati District

Sl no	Major crops	Factors

1.	Paddy	Water, temperature, humidity, birds, rats, drainage
2.	Maize	Water, birds, squirrel, incidence of disease pest, micro-nutrient deficiency, wild bore
3.	Potato	Photo patriotism, type of soils, late blight, red ant, critical water requirement, temperature
4.	Oil seed	Water, Temperature, incidence of disease insect, grazing animals, early shattering of seed
5.	Pea/beans	Powdery mildew, borer, temperature, water
6.	Cole crop	Water, temperature, soil type, physiological disorder, insect pest incidence
7.	Banana	Temperature, water, incidence of insect-pest, wind, nutrient deficiency
8.	Citrus	Incidence of disease pest, water, nutrient deficiency, poor drainage
9	Plum/peach	Temperature, pre mature flower and fruit drop, nutrient deficiency, inferior germ-plasm

10) Major offices of livestock development in Senapati District:

Sl no.	Office/ organization	Activities
1.	District Veterinary Office	Animal health coverage, artificial insemination, awareness programme and cross breeding programme in cattle
2.	District Agriculture Department	Activities for livestock development are being carried out under RKVY and ATMA scheme, GOI
3.	Office of the Autonomous District Council (ADC)	Vaccination programme and others animal health care
4.	DRDA, Senapati	From time to time programmes on animal health care and production

		are carried out under different scheme like IWMP
--	--	--

11) Schemes and plans under Crop/Livestock/fisheries sector in Senapati District:

Sl no.	Crop/Livestock/fisheries	Scheme
1.	Crop	NFSM (Paddy), ATMA scheme, RKVY scheme, DRDA scheme and scheme of NABARD and DIC, Horticultural technology Mission, WDPSCA, Orchard development, plant health Clinic, Production of Vermi- compost, resin, water harvesting structure, NMMI Scheme of horticultural deptt.,
2.	Livestock	ATMA scheme, RKVY scheme, DRDA scheme and scheme of NABARD and DIC

CHAPTER 1.DISTRICT IN GENERAL

CLIMATE

The district comes under humid sub- tropical and temperate sub alpine climate with temperature ranging from 3⁰ C to 35⁰ C during winter and summer respectively. The annual rainfall ranges from 1102 mm to 2500 mm and the relative humidity ranges from 82% to 96% with occasional occurrence of frost in winter.

TOPOGRAPHY

Physio-graphically, Senapati District as a whole has hilly terrain with total geographical area of 3271 sq km. and altitude of the district ranges from 800 to 2800 m from the mean sea level. The agro ecological situation of the district can be categorized into three situations as given below:

Situation	Description	Percentage
AES-I	Temperate/high hill/ steep and mild/ red sandy	55.8
AES-II	Sub tropical/ foot hill/ riverine, undulated clay and sandy loam	6
AES-III	Sub tropical/ medium hill red sandy	38.2

Source: ATMA Senapati

FOREST

District has an area of 74.1 % under forest cover out of the total geographical area. The forest is generally categorized as reserved, protected and un-classed forest. The forest abounds in both evergreen and deciduous trees with wide diversities.

WATER RESOURCE

River: The longest and the broadest of Manipur e.i. Imphal river and Barak river respectively originated from Senapati District beside Iril river. These river systems are rainfed. The Imphal river drains the valley area of Manipur and finally falls into Loktak lake (the floating lake) and the Barak river flows toward Assam passing through Tamenglong and Imphal East district and finally falls into Brahmaputra river.

PORTS

NIL

DEMOGRAPHY

Among the five districts of Manipur, Senapati has the highest population with lowest geographical area. The Senapati district has a total population of 4,79,000 with the density of 146 persons per sq km and with sex ratio of 937 per thousand male. The populace of the district is composed of two major tribes i.e, Naga and Kuki speaking different local dialect and is Christian by faith. Naga tribes in general have been categorized in different sub tribe like Mao, Maram, Paomei, Anal, Kabui, etc. They depend on agriculture and forest produces for their livelihood.

CULTURE AND EDUCATION

The tribals inhabiting the district have a distinct culture, belief, social norms and tradition comprising of folk lore, traditional dances, art and craft, traditional sports, customary laws, different music forms and material trait (musical instrument). Headman of the tribal village enjoys and exercises much social control over the people and resource. Head men are the custodians of people of the village and decision maker as well for village development plan. The tribals of the district still practice their fore father ritual despite of embracing the Christianity. Senapati district has 59% literacy rates. In regard to promotion of education, ADCs have also been promoting education since its inception for primary level education. A few numbers of private schools, colleges run by private individual and missionaries are also striving for quality education beside government

schools & colleges. Centrally sponsored programmes for promotion of education like SSA (universalization of elementary education) and RAMSA (middle level education) for increasing the number of school goers and checking the trends of school dropout are in operation in the district.

HEALTH CARE SECTOR

In order to care of the health of the general populace, Senapati district has 50 bedded capacity hospital at DHQ with 14 CHC and PHC, 68 PHSC and dispensaries at block and sub-block level. Many centre and state sponsored programme like TB control, AIDS control, ICDS and central government flagship programme NATIONAL RURAL HEALTH PROGRAMME are in operation in the district.

BANKING AND ALLIED SECTOR

There are a few numbers of nationalized banks operating in the district like UCO, SBI, Central, Vijaya, UBI, Punjab national bank, HDFC, NABARD, Allahabad Bank and state owned bank like Manipur State Cooperative Bank advancing credit for pretty business. However, credit facility available is poor for agriculture. Besides, private micro financing agencies are also operating in the district for financing small scale trade in business.

LOCAL BODIES AND RURAL DEVELOPMENT

There are two numbers of autonomous district council (ADC) functioning in the district for the welfare and development of the tribal populaces with common goal and objectives. There are also many numbers of local bodies like village authorities, town committee, village development council, youth club, women societies, tribal mothers association, student organization etc. working as self governing body

CHAPTER –II. AGRICULTURAL SCENERIO OF THE DISTRICT

CROP

Some of the major field crops grown in the district are paddy, maize, oilseed, pulses, potato, etc. cabbage, cauliflower, broccoli, capsicum, tomato, beans, citrus, banana, peach, plum, pineapple etc. comprises the horticultural crops of the district. The dominant cropping system in the district is rice based cropping system covering largest numbers of area under rice cultivation. Majority of the land comes under mono cropping system in which the field after the harvest of paddy remains fallow due to the non availability of water. To some extent, during winter oilseed, pulses and rabi vegetables are cultivated utilizing the residual moisture of post monsoon.

LIVESTOCK

Commonly reared livestock's of the district are cattle's, buffaloes, pigs, sheep, goat, poultry and mithun and rabbit to some extent. Poultry birds like duck, turkey and pigs are a common feature of every tribal household. Buffaloes and cattle's are mainly reared for draft and meat purpose. Consumption of milk as a matter of fact is not popular in the district. Recently, only a handful of farmers started livestock enterprises for income generation on home scale. Animals are reared under free ranching system during winter. However, during summer season they are not let free and are stall fed in an enclosure.

CHAPTER –III. CONSTRAINTS IN AGRICULTURAL PRODUCTION

CROPS

- ✚ Low productivity, disease and pest problems
- ✚ In adequate availability of improved and high yielding varieties of crop seed
- ✚ High cost of agri-inputs
- ✚ Lack of irrigation facilities
- ✚ Lack of suitable agro forestry farming practices
- ✚ Poor forest management
- ✚ Erratic behavior of monsoon
- ✚ Weed problems
- ✚ Poor storage facilities
- ✚ Lack of regulated markets and market intelligence
- ✚ Lack of market yards
- ✚ Lack of knowledge among the farmer about post harvest technology
- ✚ Farmers unwillingness to adopt scientific method of farming
- ✚ Poor availability of farmer during peak farming system
- ✚ Rural migration and poor farm credit facility
- ✚ Topographically terrain hill undulated, soil erosion, forest fire, deforestation and mud and landslides
- ✚ Poor farm mechanization attributed to unfriendly topography
- ✚ Low literacy of the farming community
- ✚ Land tenure system, deprived of ownership right over the land
- ✚ Lack of transportation
- ✚ Lack of processing unit
- ✚ Lack of aware buyers
- ✚ Lack of sense of commercialization among the farmers leading to subsistence farming
- ✚ Poor extension service by the various concern department

LIVESTOCK

- ✚ Lack of superior germplasm of animal breed
- ✚ Poor knowledge of scientific farming among the farmers
- ✚ Inadequate availability of animals feed
- ✚ Lack of knowledge about livestock insurance
- ✚ Untimely availability of Vety. medicine
- ✚ Seasonal disease in epidemic form
- ✚ Lack of mobile unit
- ✚ Lack of programme and scheme for livestock development
- ✚ Poor breeding programme in the district
- ✚ Lack of processing unit
- ✚ Lack of aware buyers
- ✚ Lack of regulated slaughter house and sale
- ✚ Poor vaccination and immunization programme
- ✚ Poor transport facility
- ✚ Price fluctuation
- ✚ Lack of government supportive policy

CHAPTER –IV. INSTITUTIONAL SUPPORT FOR AGRICULTURAL DEVELOPMENT OF THE DISTRICT

CROP

1. Department of agriculture and horticulture
2. ATMA
3. KVK
4. NABARD,SBI,CBI,PNB,HDFC,UCO
5. Farmer clubs and voluntary organization
6. District industry centre and catholic missionaries
7. Department of industries and commerce, GOM
8. Naga fragrance private limited
9. RKVY
- 10.NFSM (paddy, maize, pulses)
- 11.ADC
- 12.National rural livelihood mission
- 13.DRDA programme
- 14.Agricultural cooperative society

LIVESTOCK

- 1 Department of veterinary and animal husbandry
- 2 ATMA
- 3 KVK
- 4 NABARD,SBI,CBI,PNB,HDFC,UCO
- 5 Farmer clubs and voluntary organization
- 6 District industry centre and catholic missionaries
- 7 Department of industries and commerce, GOM
- 8 Naga fragrance private limited
- 9 RKVY
- 10 ADC

- 11 National rural livelihood mission
- 12 DRDA programme
- 13 Milk cooperative society

CHAPTER V. RESEARCH AND DEVELOPMENT ORGANISATION RELEVANT TO DISTRICT'S AGRICULTURE

So far, there is no any organization engage in research and development work in the field of crops, livestock and fisheries. ICAR-MC located at state capital is concern for the research work, finding of which is put to trial in the district. However, to some extent, KVK-Senapati is conducting adaptive research in the form of OFT.

CHAPTER VI. PLANS AND SCHEMES FOR PROMOTION OF AGRICULTURE

CROPS

1. NABARD scheme
2. RKVY
3. NFSM (paddy, maize, pulses)
4. ATMA scheme
5. National integrated development for horticulture
6. National Mission on Micro-Irrigation
7. NYK Scheme for Capacity Building
8. IWMP
9. National programme of organic farming
10. SDDC, Senapati an NGO engaged in organic farming
11. MGNREGS
12. WDPSCA implemented by Horticulture Dept.
13. Plant Health Clinic
14. Acid Soil Reclamation Programme
15. Establishment of Horticulture Orchard
16. National Mission on Sustainable Agriculture, implemented by Agriculture Dept.
17. National Agricultural Insurance Scheme
18. National Bamboo Mission implemented by Forest Dept. & FEEDS (NGO)

LIVESTOCK

1. Livestock insurance scheme
2. RKVY
3. ATMA scheme
4. Scheme of DRDA
5. Scheme of DIC
6. Cross breeding programme of State Deptt.
7. NABARD Scheme
8. Livestock component under IWMP
9. NYK scheme for capacity building

CHAPTER –VII. FARM MACINERY SUITABLE TO THE DISTRICT

- i. Tractor
- ii. Power tiller
- iii. Wooden kishan plough
- iv. Dibbler
- v. Row marker
- vi. Power & manual sprayer
- vii. Manual fruit harvester
- viii. Cultivator
- ix. Disc plough
- x. Traditional winnower
- xi. Indigenous threshing stick
- xii. Cane made threshing carpet
- xiii. Bullock cart
- xiv. Seed dresser
- xv. Sickle and gardening tools
- xvi. SRI marker
- xvii. Cono weeder
- xviii. Dal mill
- xix. Paddy reaper

CHAPTR –VIII ANNEXURE

Telephone directory of important agriculture and related departments/offices in Senapati district

Departmental farm and SHG

Sl no	Agriculture and related departments/offices	Phone number
1	Mao potato farm, Horti. Deptt., GOM	9862278727
2	Maram Progeny farm	
3	KVK- Senapati	9774666174
4	ATMA	08014548171/9862054064
5	NABARD	8974674018
6	Agriculture Deptt., GOM	9774266068
7	Besa flori. SHG, Mayangkhang village	9774554748
8	Katoumei Women SHG farm	9612113741

Soil testing laboratory

Sl no	Soil testing laboratory	Phone number
1	KVK- Senapati	8974684798

Livestock farms

Sl no	Livestock farms	Phone number
1	KVK- Senapati	8014617299
2	Toribari cattle breeding farm, Deptt. of Vety., GOM	94366031052
3	ATMA	08014548171/9862054064











Staff information

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12.	Mutum Ronel Singh	Junior Stenographer cum Computer Operator	B.A.	8575975350	
13.	Paokhanlam Kipgen	Driver			
14.	Pheiroijam Tomba Singh	Driver			
15.	Chungkholam Chongloi	Supporting Staff			
16.	Kamminlal Kipgen	Supporting Staff			



Group Photo of Staff,kvk Senapati

DISCLAIMER:

Information in this e-publication is compiled from various secondary sources by subject experts i.e. KVK professionals in district and compiled by editors. The information in this book is meant to supplement the working knowledge of development stakeholders in North Eastern Districts. The e-publication contains information about [district information], the information is not advice, and should not be treated as such. Editors are not responsible for any mistake or lacuna or plagiarism in this e-publication as information is compiled by KVKs from secondary sources. This e-publication is only for academic/developmental purposes, and not for commercial use. The main idea behind this e-publication is creating awareness and sharing information. Although the editors and publisher have made every effort to ensure that the information in this book was correct at publishing time, the editors and publisher do not assume and hereby disclaim any liability to any party for any loss, damage, or disruption caused by errors or omissions, whether such errors or omissions result from negligence, accident, or any other cause. This is pre-publication copy, uploaded to be reviewed by authors and peers.

