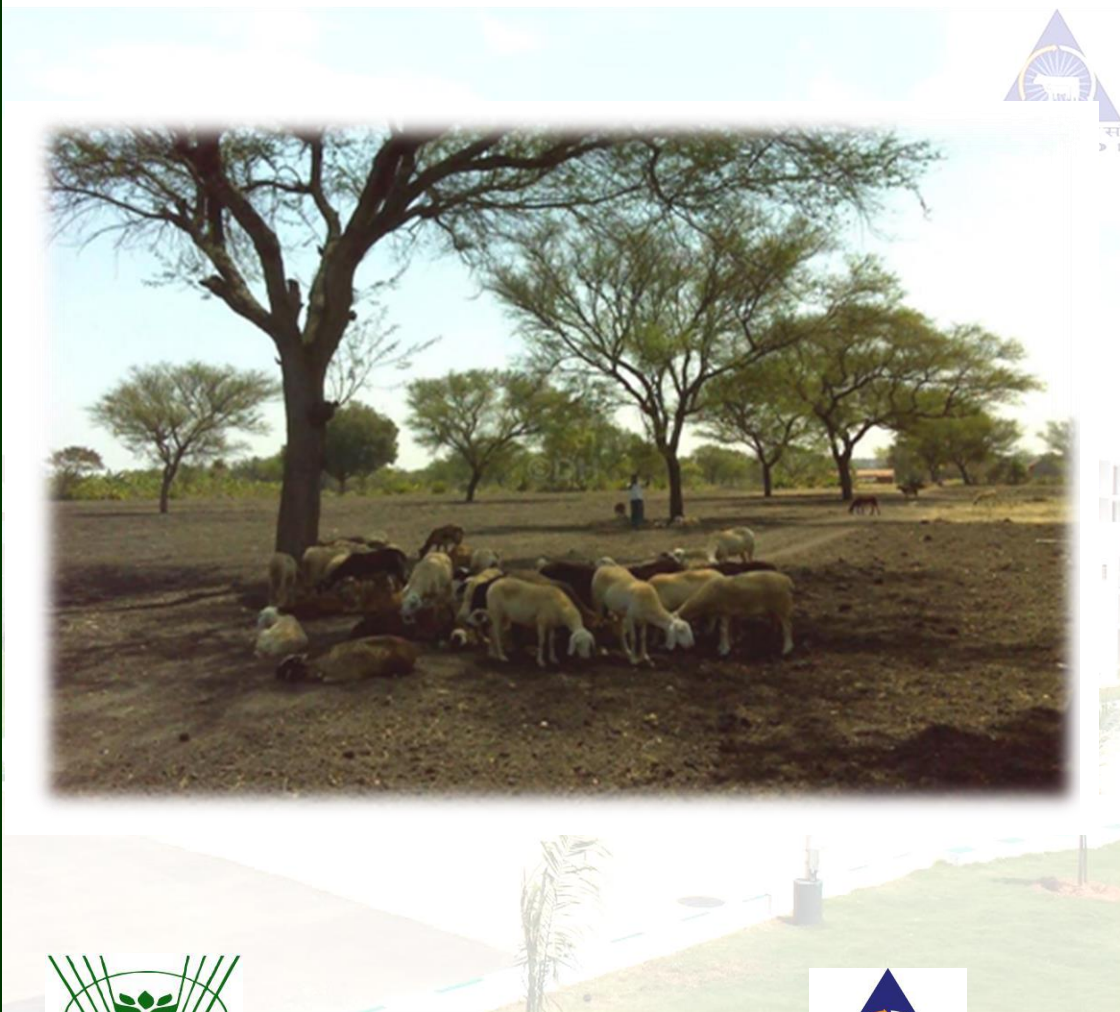
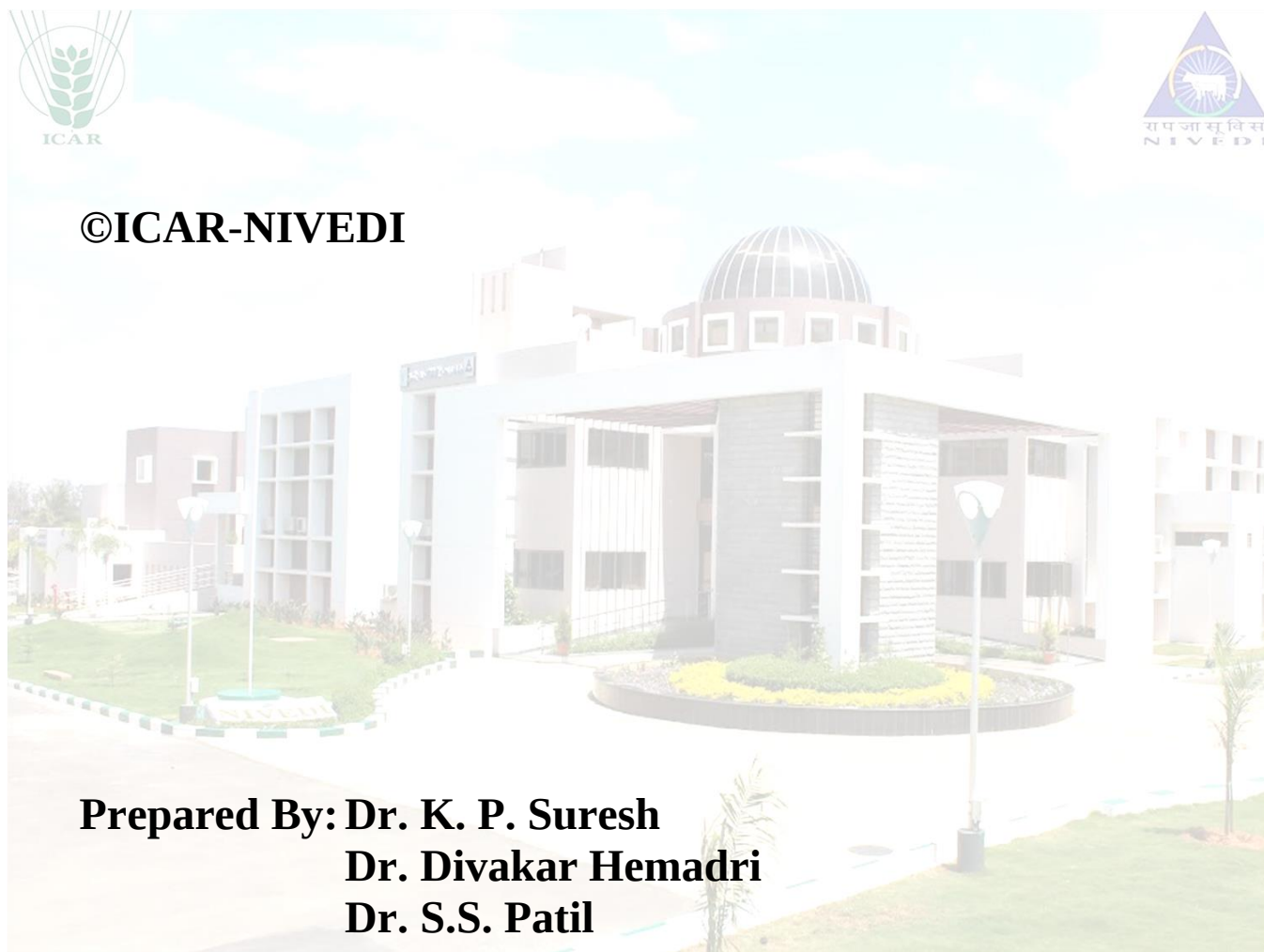


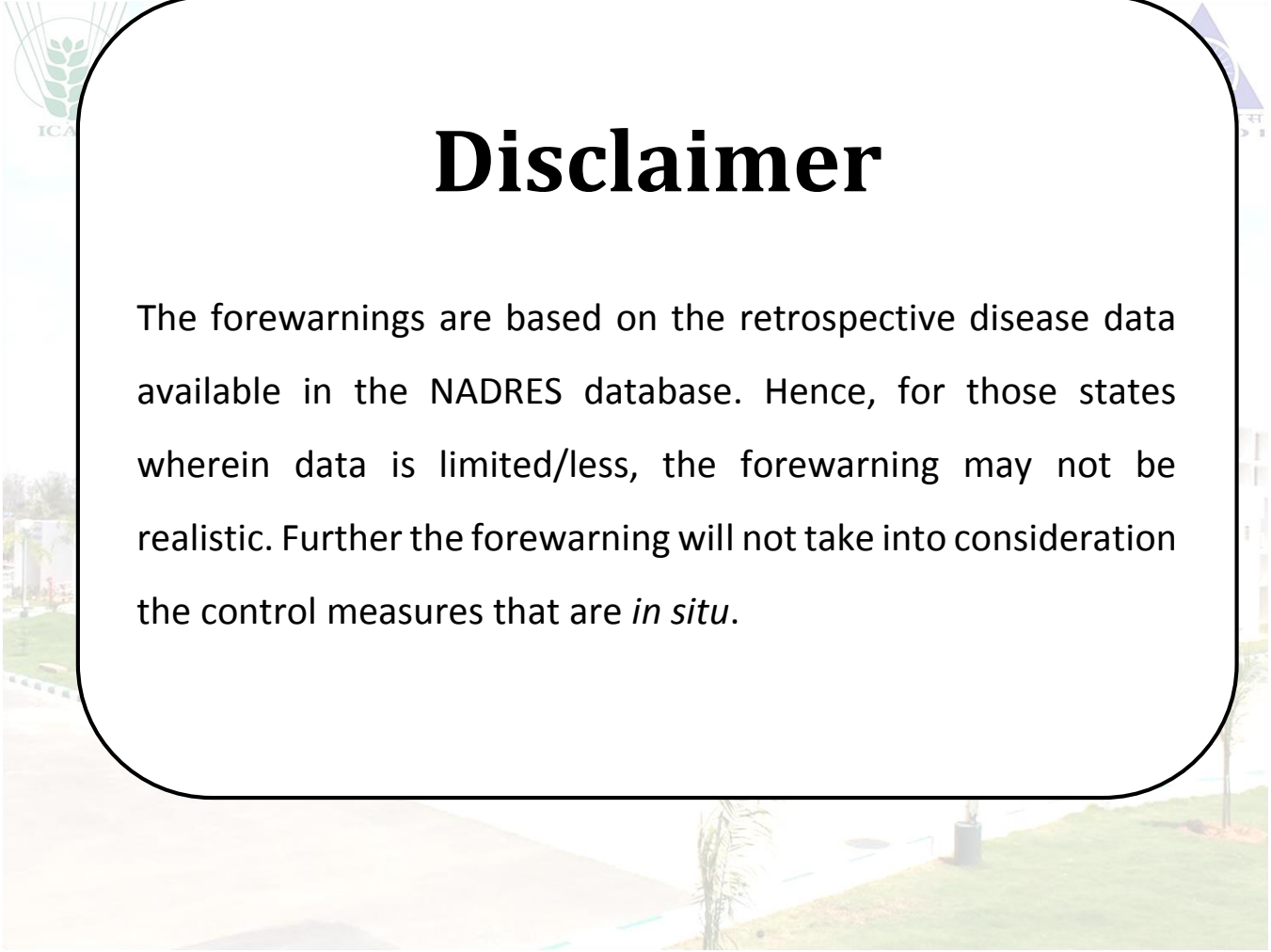
April 2017, Volume 5, Issue 4



LIVESTOCK DISEASE FOREWARNING BULLETIN- June 2017

Published By: Director
ICAR-NIVEDI





Disclaimer

The forewarnings are based on the retrospective disease data available in the NADRES database. Hence, for those states wherein data is limited/less, the forewarning may not be realistic. Further the forewarning will not take into consideration the control measures that are *in situ*.

Acknowledgement

We would like to express sincere everlasting gratitude to honourable Deputy Director-General (Animal Sciences) for his constant encouragement and guidance.

Animal Husbandry Department of various state governments and also AICRP centers of ADMAS are gratefully acknowledged for the timely report of disease outbreak data. We are thankful to all the scientific and technical staff of NIVEDI for their feedback and support.

Furthermore, we would also like to acknowledge with much appreciation, the crucial role of SRF/YP Latha Gopal Singh, Sakshi Gautam, Rashmi R. Kurli, Reshma.K, Mainak Mondal and Sandeep Santra in preparation this report.

K. P. Suresh

Divakar Hemadri

S. S. Patil

Project Coordinator on ADMAS & Director NIVEDI

निदेशक / Director

राष्ट्रीय पशु रोग ज्ञानपदिक एवं सूचना विज्ञान संस्थान
National Institute of Veterinary Epidemiology and Disease Informatics

पोस्ट बॉक्स सं-६४५० / Post Box No. 6450

रामगोंडनहल्लि / Ramagondanahalli

बेंगलुरु-५६० ०६४ / Bengaluru-560 064

Contents

1. Introduction	1
------------------------	----------

2. NADRES Forewarning Procedure	2
--	----------

3. Forewarning of livestock disease for the month of March 2017	3
--	----------

i) District wise Livestock Disease Forewarning	3
---	----------

ii) State wise Livestock Disease Forewarning	40
---	-----------

iii) Livestock Disease Forewarning Maps	47
--	-----------

5. Appendix	61
--------------------	-----------

A. SAS Code	61
--------------------	-----------

B. Abbreviations	62
-------------------------	-----------

1. Introduction

The National Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI) is a dedicated institute for veterinary epidemiology and disease informatics. The institute has played vital role in eradication and containment of various livestock diseases in India. With changing national and international scenarios the animal health is a priority for nation's economy and human health.

Livestock sector also plays a critical role in the welfare of India's rural population. This enterprise provides a flow of essential food products, draught power, manure, employment, income and export earnings as it is an important component in poverty alleviation programmes. Livestock development programmes cannot succeed unless a well-organized animal health service is built up and protection of livestock against diseases and pests particularly against the deadly infections is assured. India has achieved eradication of rinderpest (RP), CBPP, AHS and Dourine. However, there are several other infectious and non-infectious diseases prevailing in the country causing huge economic loss annually. Prevention, control and eradication of the animal diseases need a thorough understanding of the epidemiology as well their economic impact. ICAR-NIVEDI has identified priority diseases based on previous 10 year incidence patterns and has built a strong database of these priority diseases starting from 1987.

The said database is the backbone of National Animal Disease Referral Expert System (NADRES), the interactive, dynamic, online animal health and disease forewarning system.

2. NADRES Forewarning Procedure

The Livestock Disease outbreak data of the previous month has to be retrieved from the NADRES website to generate the status of the outbreak by updating the existing NADRES data consisting of the Agro-economic and Metrological information using SAS. (Appendix A)

For predicting the disease outbreak Logistic Regression Analysis was done using the SAS software. The predicted data was depicted in a tabular format and is exported to an excel sheet.



3. Forewarning of livestock disease for the month of June 2017

i) District wise Livestock Disease forewarning:



Districts of Andaman and Nicobar	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Nicobar	0	1	0	0	0	1	0	0	0	0	0	0	0	2
North and Middle Andaman	0	1	0	0	0	1	0	0	0	0	0	0	0	2
South Andaman	0	1	0	0	0	1	0	0	0	0	0	0	0	2
No.of Disease Districts likely to report	0	3	0	0	0	3	0	0	0	0	0	0	0	6

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.

District wise Livestock Disease forewarning for June 2017: Andhra Pradesh

Districts of Andhra Pradesh	Livestock Diseases													No. of Diseases likely to occur
	Anthrax	Babesiosis	BQ	BT	ET	Fascioliasis	FMD	HS	PPR	S&G Pox	SF	Theileriosis	Trypanosomiasis	
Anantapur	1	0	1	0	1	1	1	1	1	1	0	0	0	8
Chittoor	1	0	1	1	1	0	0	1	1	1	0	0	0	7
East Godavari	1	0	1	0	1	0	1	1	1	1	0	0	0	7
Guntur	1	0	1	1	1	0	1	1	1	1	0	0	1	9
Krishna	1	0	1	0	1	0	1	1	1	1	0	0	1	8
Kurnool	1	0	1	0	1	0	1	1	1	1	0	0	0	7
Prakasam	1	0	1	0	1	0	1	1	1	1	0	0	0	7
Sri Potti Sriramalu Nellore	1	0	1	0	1	0	1	1	1	1	0	0	0	7
Srikakulam	0	0	1	0	1	0	1	1	1	0	0	0	1	6
Visakhapatnam	1	0	1	0	1	0	0	1	1	0	0	0	0	5
Vizianagaram	1	0	1	0	1	0	1	1	1	1	0	0	0	7
West Godavari	1	0	1	0	1	0	1	1	1	1	0	0	1	8
Y.s.r.	1	0	1	0	1	0	1	1	1	1	0	0	0	7
No. of Disease Districts likely to report	12	0	13	2	13	1	11	13	13	11	0	0	4	93

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast, for that disease.

District wise Livestock Disease forewarning for June 2017: Arunachal Pradesh

Districts of Arunachal Pradesh	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Changlang	0	0	0	0	0	1	0	0	0	0	0	0	0	1
East Kameng	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Kurung Kumey	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Lower Subansiri	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Papum Pare	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Tawang	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Upper Siang	0	0	0	0	0	1	0	0	0	0	0	0	0	1
No.of Disease Districts likely to report	0	0	0	0	0	7	0	0	0	0	0	0	0	7

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.

District wise Livestock Disease forewarning for June 2017: Assam

Districts of Assam	Livestock Diseases													No. of Diseases likely to occur
	Anthrax	Babesiosis	BQ	BT	ET	Fascioliasis	FMD	HS	PPR	S&G Pox	SF	Theileriosis	Trypanosomiasis	
Barpeta	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Cachar	0	0	1	0	0	1	1	1	0	0	0	0	0	4
Chirang	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Darrang	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Dhemaji	0	0	1	0	0	1	0	1	0	0	1	0	0	4
Dhubri	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Dibrugarh	0	0	1	0	0	1	1	0	0	0	0	0	0	3
Dima Hasao (North Cachar Hill)	0	0	1	0	0	0	1	0	0	0	0	0	0	2
Goalpara	0	0	1	0	0	1	1	1	0	0	0	0	0	4
Golaghat	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Hailakandi	0	0	1	0	0	0	1	0	0	0	0	0	0	2
Jorhat	0	0	1	0	0	1	0	1	0	0	0	0	0	3
Kamrup(Dispur)	0	0	1	0	0	0	1	1	0	0	1	0	0	4
Karimganj	0	0	1	0	0	0	1	0	0	0	0	0	0	2
Kokrajhar	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Lakhimpur	0	0	1	0	0	1	0	1	0	0	1	0	0	4
Nagaon	0	0	1	0	0	1	0	1	0	0	0	0	0	3
Nalbari	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Sivasagar	0	0	1	0	0	0	1	1	0	0	1	0	0	4
Sonitpur	1	0	1	0	0	1	1	1	0	0	1	0	0	6
Tinsukia	0	0	0	0	0	1	0	0	0	0	0	0	0	1
No. of Disease Districts likely to report	1	0	20	0	0	9	14	15	0	0	5	0	0	64

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast, for that disease.

District wise Livestock Disease forewarning for June 2017: Bihar

Districts of Bihar	Livestock Diseases													No. of Diseases likely to occur
	Anthrax	Babesiosis	BQ	BT	ET	Fascioliasis	FMD	HS	PPR	S&G Pox	SF	Theileriosis	Trypanosomiasis	
Araria	0	0	1	0	0	1	1	1	0	0	0	0	1	5
Aurangabad	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Banka	0	0	1	0	0	1	1	1	0	0	0	0	1	5
Begusarai	0	0	0	0	0	1	0	1	0	0	0	0	0	2
Bhagalpur	0	0	1	0	0	1	0	1	0	0	0	0	1	4
Bhojpur	0	0	0	0	0	0	0	1	0	0	0	0	1	2
Darbhanga	0	0	0	0	0	1	0	1	0	0	0	0	0	2
Gaya	0	0	1	0	0	0	1	1	0	0	0	0	1	4
Gopalganj	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Jamui	0	0	1	0	0	0	0	1	0	0	0	0	1	3
Katihar	0	0	1	0	0	1	1	1	0	0	0	0	1	5
Kishanganj	0	0	0	0	0	1	0	1	0	0	0	0	1	3
Lakhisarai	0	0	0	0	0	1	0	0	0	0	0	0	1	2
Madhepura	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Madhubani	0	0	1	0	0	1	0	1	0	0	0	0	0	3
Munger	0	0	0	0	0	1	0	0	0	0	0	0	1	2
Muzaffarpur	0	0	0	0	0	1	0	1	0	0	0	0	1	3
Pashchim Champaran	0	0	0	0	0	1	1	1	0	0	0	0	1	4
Purba Champaran	0	0	0	0	0	1	0	1	0	0	0	0	1	3
Purnia	0	0	1	0	0	1	0	1	0	0	0	0	1	4
Saharsa	0	0	0	0	0	1	0	1	0	0	0	0	0	2
Samastipur	0	0	0	0	0	1	0	1	0	0	0	0	0	2

Continue

Districts of Bihar	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Saran (chhapra)	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Sheikhpura	0	0	0	0	0	1	0	0	0	0	0	0	1	2
Sheohar	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Sitamarhi	0	0	0	0	0	1	0	1	0	0	0	0	1	3
Siwan	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Supaul	0	0	0	0	0	1	0	1	0	0	0	0	1	3
Vaishali	0	0	0	0	0	1	0	0	0	0	0	0	0	1
No.of Disease Districts likely to report	0	0	8	0	0	24	5	20	0	0	0	0	18	75

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.



District wise Livestock Disease forewarning for June 2017: Chhattisgarh

Districts of Chhattisgarh	Livestock Diseases													No. of Diseases likely to occur
	Anthrax	Babesiosis	BQ	BT	ET	Fascioliasis	FMD	HS	PPR	S&G Pox	SF	Theileriosis	Trypanosomiasis	
Bastar	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Durg	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Raipur	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Rajnandgaon	0	0	0	0	0	0	0	1	0	0	0	0	0	1
No.of Disease Districts likely to report	0	0	3	0	0	0	0	4	0	0	0	0	0	7

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast, for that disease.

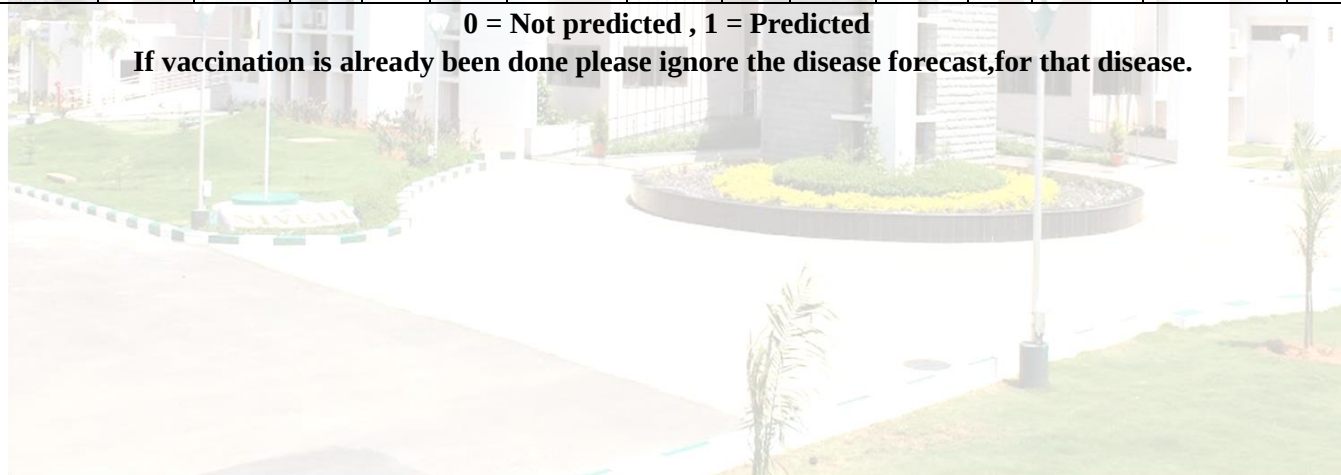


District wise Livestock Disease forewarning for June 2017: Dadra and Nagar Haveli

Districts of Dadra and Nagar Haveli	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
No.of Disease Districts likely to report	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.



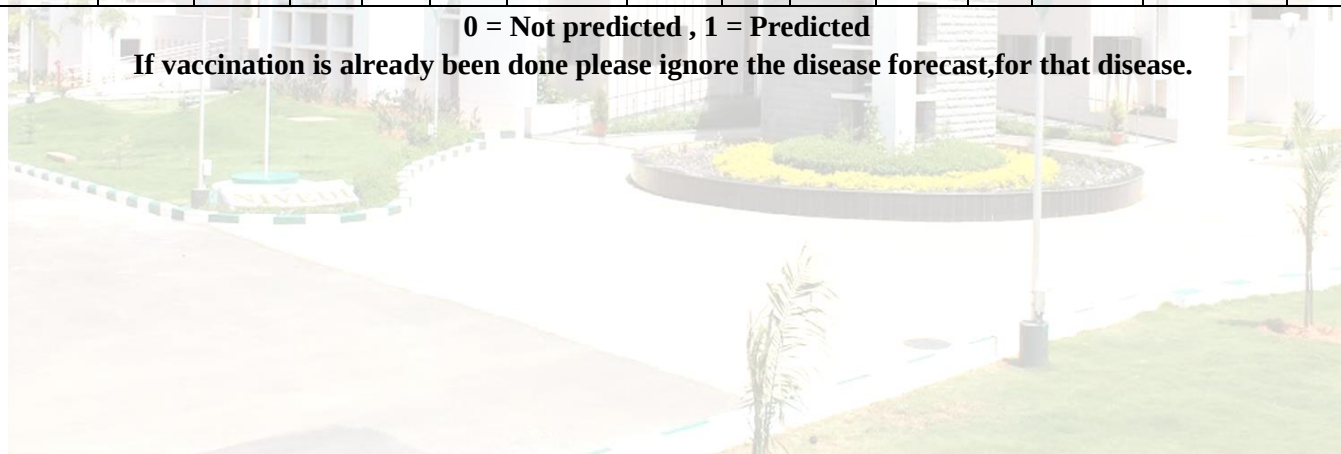


District wise Livestock Disease forewarning for June 2017: Daman and Diu

Districts of Daman and Diu	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Daman	0	0	1	0	0	0	1	0	0	0	0	0	0	2
No.of Disease Districts likely to report	0	0	1	0	0	0	1	0	0	0	0	0	0	2

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.

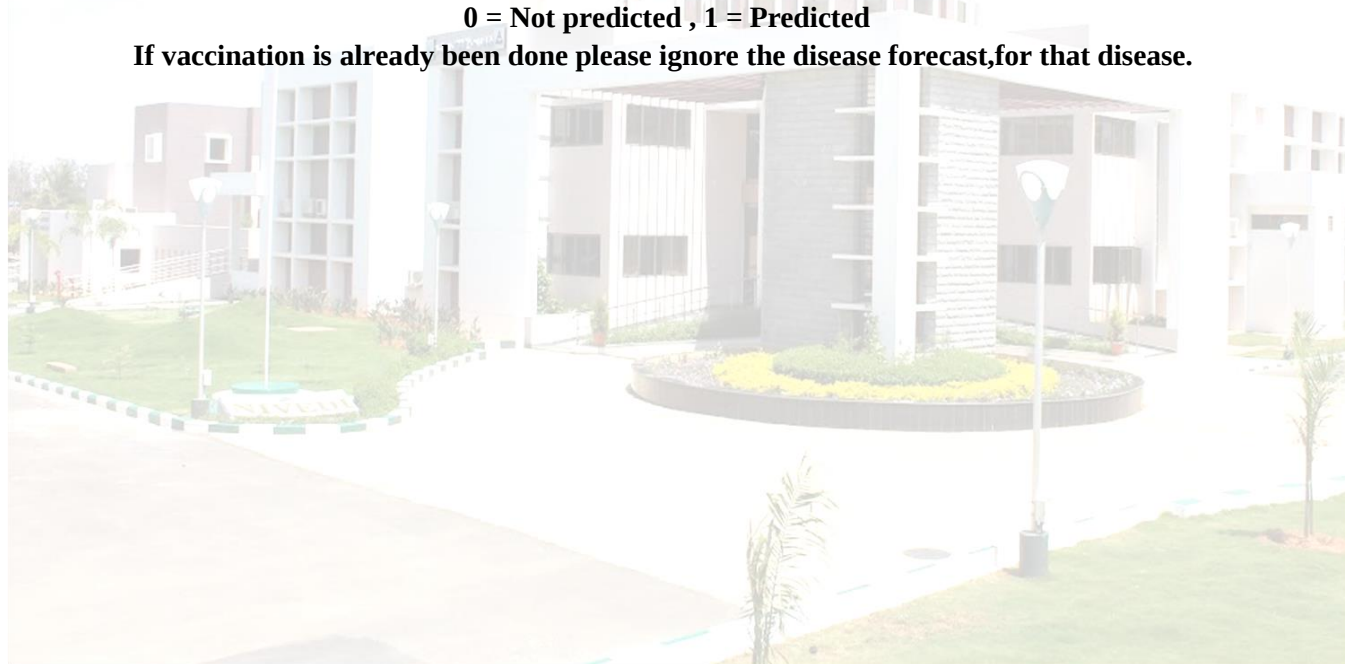


District wise Livestock Disease forewarning for June 2017: Goa

Districts of Goa	Livestock Diseases													No. of Diseases likely to occur
	Anthrax	Babesiosis	BQ	BT	ET	Fascioliasis	FMD	HS	PPR	S&G Pox	SF	Theileriosis	Trypanosomiasis	
No. of Disease Districts likely to report	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast, for that disease.



District wise Livestock Disease forewarning for June 2017:Gujarat

Districts of Gujarat	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Ahmedabad	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Amreli	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Anand	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Banas Kantha	0	0	0	0	0	0	1	1	0	1	0	0	0	3
Bhavnagar	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Gandhinagar	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Jamnagar	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Junagadh	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Kachchh	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Kheda	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Mehsana	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Navsari	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Panch Mahals	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Patan	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Porbandar	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Rajkot	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Sabar Kantha	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Surendranagar	0	0	1	0	0	0	0	1	0	0	0	0	0	2
The Dangs	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Vadodara	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Valsad	0	0	1	0	0	0	1	1	0	0	0	0	0	3
No.of Disease Districts likely to report	0	0	9	0	0	0	15	21	0	1	0	0	0	46

0 = Not predicted , 1 = Predicted

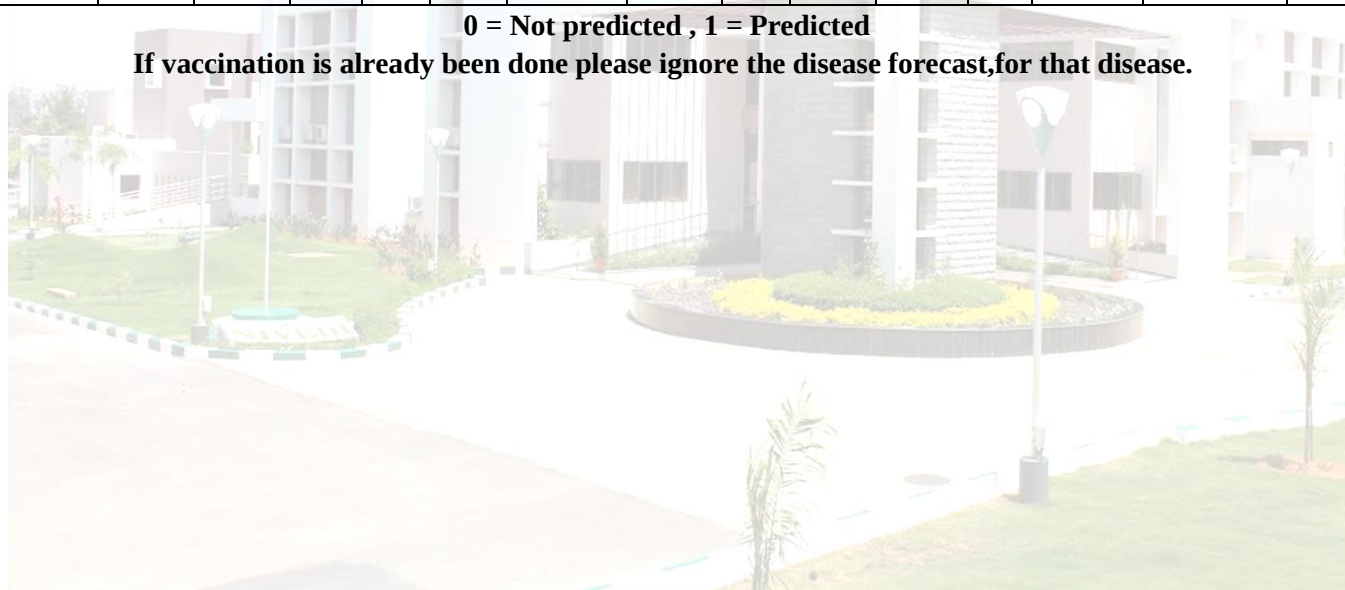
If vaccination is already been done please ignore the disease forecast,for that disease.

District wise Livestock Disease forewarning for June 2017: Haryana

Districts of Haryana	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Hisar	0	0	0	0	1	0	1	0	0	0	0	0	0	2
No.of Disease Districts likely to report	0	0	0	0	1	0	1	0	0	0	0	0	0	2

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.

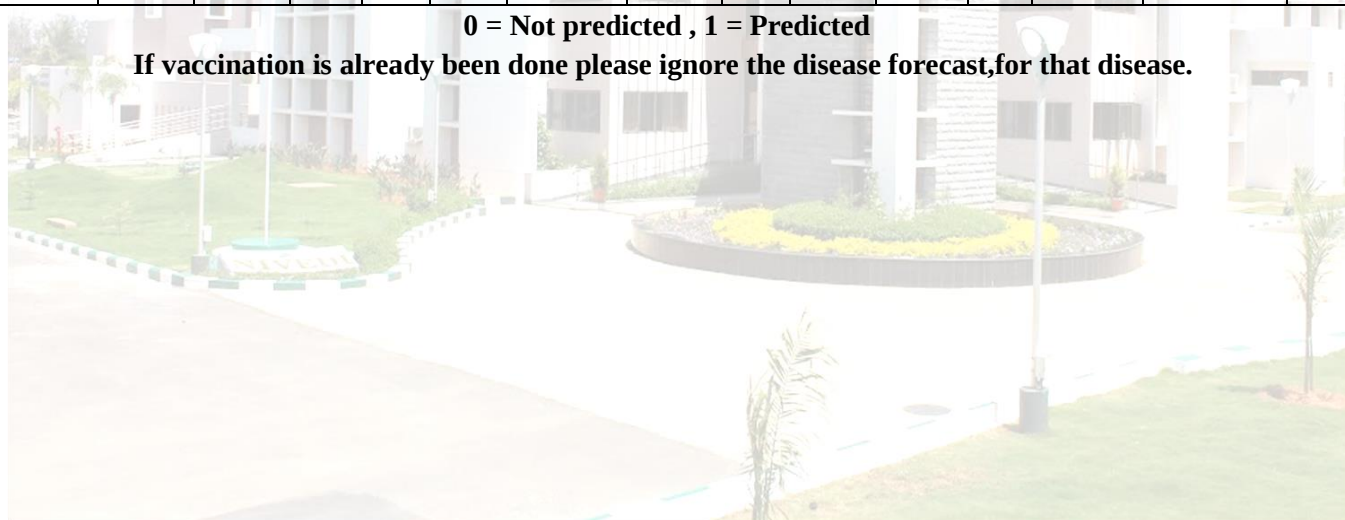


District wise Livestock Disease forewarning for June 2017: Himachal Pradesh

Districts of Himachal Pradesh	Livestock Diseases													No. of Diseases likely to occur
	Anthrax	Babesiosis	BQ	BT	ET	Fascioliasis	FMD	HS	PPR	S&G Pox	SF	Theileriosis	Trypanosomiasis	
Kangra	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Kullu	0	0	1	0	0	0	1	0	0	0	0	0	0	2
No. of Disease Districts likely to report	0	0	1	0	0	0	2	0	0	0	0	0	0	3

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast, for that disease.



District wise Livestock Disease forewarning for June 2017: Jammu and Kashmir

Districts of Jammu and Kashmir	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Anantnag (Kashmir South)	0	0	0	0	0	0	1	0	0	1	0	0	0	2
Badgam	0	0	1	0	0	0	1	0	0	1	0	0	0	3
Baramula	0	0	0	0	0	0	1	0	0	1	0	0	0	2
Doda	0	0	1	0	0	0	1	0	0	1	0	0	0	3
Kargil	0	0	0	0	0	0	1	0	0	1	0	0	0	2
Kathua	0	0	0	0	0	0	1	0	0	1	0	0	0	2
Kupwara	0	0	0	0	0	0	1	0	0	1	0	0	0	2
Pulwama	0	0	0	0	0	0	1	0	0	1	0	0	0	2
Punch	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Rajouri	0	0	0	0	0	0	1	0	0	1	0	0	0	2
Srinagar	0	0	0	0	0	0	1	0	0	1	0	0	0	2
Udhampur	0	0	1	0	0	0	1	1	0	1	0	0	0	4
No.of Disease Districts likely to report	0	0	3	0	0	0	11	1	0	12	0	0	0	27

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.



District wise Livestock Disease forewarning for June 2017: Jharkhand

Districts of Jharkhand	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Bokaro	0	1	0	0	0	1	0	0	0	0	0	1	1	4
Chatra	0	1	1	0	0	0	0	1	0	0	0	1	1	5
Deoghar	0	0	1	0	0	0	0	1	0	0	0	1	1	4
Dhanbad	0	1	0	0	0	0	0	1	0	0	0	1	1	4
Dumka	0	1	1	0	0	1	1	1	0	0	0	1	1	7
Garhwa	0	1	1	0	0	0	0	0	0	0	0	1	1	4
Giridih	0	1	1	0	0	1	0	1	0	0	0	1	1	6
Godda	0	1	1	0	0	1	0	0	0	0	0	1	1	5
Gumla	0	1	1	0	0	1	0	1	0	0	0	1	1	6
Hazaribagh	0	1	1	0	0	1	0	1	0	0	0	1	1	6
Jamtara	0	0	0	0	0	0	0	1	0	0	0	1	1	3
Koderma	0	1	0	0	0	0	0	0	0	0	0	0	1	2
Latehar	0	1	1	0	0	0	0	0	0	0	0	1	1	4
Lohardaga	0	1	0	0	0	0	0	0	0	0	0	1	1	3
Pakur	0	1	1	0	0	1	0	1	0	0	0	1	1	6
Palamu	0	1	1	0	0	0	0	1	0	0	0	1	1	5
Pashchimi Singhbhum	0	1	1	0	0	1	0	1	0	0	0	1	1	6
Purbi Singhbhum	0	1	1	0	0	1	0	1	0	0	0	1	1	6
Ranchi	0	1	1	0	0	1	1	1	0	0	0	1	1	7
Sahibganj	0	1	0	0	0	1	0	0	0	0	0	1	1	4
Seraikela - Kharsawan	0	1	0	0	0	1	0	1	0	0	0	1	1	5
Simdega	0	1	1	0	0	1	0	0	0	0	0	1	1	5

No. of Disease Districts likely to report	0	20	15	0	0	13	2	14	0	0	0	21	22	107
--	---	----	----	---	---	----	---	----	---	---	---	----	----	-----

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.



District wise Livestock Disease forewarning for June 2017: Karnataka

Districts of Karnataka	Livestock Diseases													No. of Diseases likely to occur
	Anthrax	Babesiosis	BQ	BT	ET	Fascioliasis	FMD	HS	PPR	S&G Pox	SF	Theileriosis	Trypanosomiasis	
Bagalkot	0	0	1	0	1	0	1	1	0	1	0	0	0	5
Bangalore	1	0	1	0	0	0	1	1	0	0	0	0	0	4
Bangalore Rural	1	0	1	0	0	0	1	1	0	0	0	0	0	4
Belgaum	0	0	1	0	1	0	1	1	0	1	0	0	0	5
Bellary	1	0	1	0	1	0	1	1	1	1	0	0	0	7
Bidar	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Bijapur	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Chamarajnagar	1	0	1	0	1	0	1	1	0	0	0	0	0	5
Chikmagalur	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Chitradurga	1	0	1	0	1	0	1	1	1	1	0	0	0	7
Dakshina Kannada	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Davanagere	1	0	1	0	1	0	1	1	0	1	0	0	0	6
Dharwad	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Gadag	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Gulbarga	0	0	1	0	1	0	1	1	0	0	0	0	0	4



Continue

Districts of Karnataka	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Hassan	1	0	1	0	1	0	1	1	0	0	0	0	0	5
Haveri	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Kodagu	0	1	0	0	0	0	1	1	0	0	0	0	0	3
Kolar	1	0	1	0	1	0	1	1	1	0	0	0	0	6
Koppal	0	0	1	0	1	0	1	1	0	1	0	0	0	5
Mandya	1	0	1	0	1	0	1	1	1	1	0	0	0	7
Mysore	1	0	1	0	1	0	1	1	0	1	0	0	0	6
Raichur	0	0	1	0	1	0	1	1	0	1	0	0	0	5
Shimoga	0	0	1	0	1	0	1	1	0	0	0	0	0	4
Tumkur	1	0	1	0	1	0	1	1	1	1	0	0	0	7
Udupi	1	1	1	0	0	0	1	1	0	0	0	0	0	5
Uttara Kannada	1	0	1	0	0	0	1	1	0	0	0	0	0	4
No.of Disease Districts likely to report	13	2	26	0	15	0	26	27	5	10	0	0	0	124

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.



District wise Livestock Disease forewrning for June 2017: Kerala

Districts of Kerala	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Alappuzha	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Ernakulam	1	1	1	0	0	0	1	1	1	0	0	1	0	7
Idukki	1	1	1	0	0	0	1	1	0	0	0	1	0	6
Kannur	0	1	1	0	0	0	1	1	0	0	0	1	0	5
Kasaragod	1	1	1	0	0	1	1	1	0	0	0	1	0	7
Kollam	1	1	1	0	0	0	1	1	1	0	0	1	0	7
Kottayam	1	1	1	0	0	0	1	1	1	0	0	1	0	7
Kozhikode	1	1	0	0	0	1	1	1	0	0	1	1	0	7
Malappuram	1	1	0	0	0	1	1	1	0	0	1	1	0	7
Palakkad	1	1	1	0	0	0	1	1	0	0	0	1	0	6
Pathanamthitta	1	1	1	0	0	0	1	1	1	0	0	1	0	7
Thiruvanantha puram	1	1	1	0	0	0	1	1	1	0	0	1	0	7
Thrissur	1	1	1	0	0	0	1	1	1	0	0	1	0	7
Wayanad	1	1	0	0	0	1	1	0	0	0	0	1	0	5
No.of Disease Districts likely to report	12	13	10	0	0	4	13	12	6	0	2	14	0	86

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.



District wise Livestock Disease forewarning for June 2017: Lakshadweep

Districts of Lakshadweep	Livestock Diseases													No. of Diseases likely to occur
	Anthrax	Babesiosis	BQ	BT	ET	Fascioliasis	FMD	HS	PPR	S&G Pox	SF	Theileriosis	Trypanosomiasis	
No. of Disease Districts likely to report	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast, for that disease.

District wise Livestock Disease forewarning for June 2017: Madhya Pradesh

Districts of Madhya Pradesh	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Balaghat	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Betul	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Chhindwara	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Rajgarh	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Sagar	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Shivpuri	0	0	0	0	0	0	0	1	1	0	0	0	0	2
No.of Disease Districts likely to report	0	0	3	0	0	0	0	5	1	0	0	0	0	9

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.

District wise Livestock Disease forewarning for June 2017: Maharashtra

Districts of Maharashtra	Livestock Diseases													No. of Diseases likely to occur
	Anthrax	Babesiosis	BQ	BT	ET	Fascioliasis	FMD	HS	PPR	S&G Pox	SF	Theileriosis	Trypanosomiasis	
Ahmadnagar	1	0	1	0	1	0	1	1	1	1	0	0	0	7
Aurangabad(MH)	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Bid	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Buldana	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Dhule	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Gondiya	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Jalgaon	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Jalna	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Kolhapur	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Latur	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Nagpur	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Nanded	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Nandurbar	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Nasik	0	0	1	0	0	0	1	1	1	0	0	0	0	4
Osmanabad	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Parbhani	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Pune	1	0	1	0	1	0	1	1	1	1	0	0	0	7
Sangli	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Satara	0	0	0	0	1	0	0	1	0	1	0	0	0	3
Solapur	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Thane	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Yavatmal	0	0	1	0	0	0	0	1	0	0	0	0	0	2
No. of Disease Districts likely to report	2	0	19	0	3	0	4	22	3	3	0	0	0	56

0 = Not predicted , 1 = Predicted

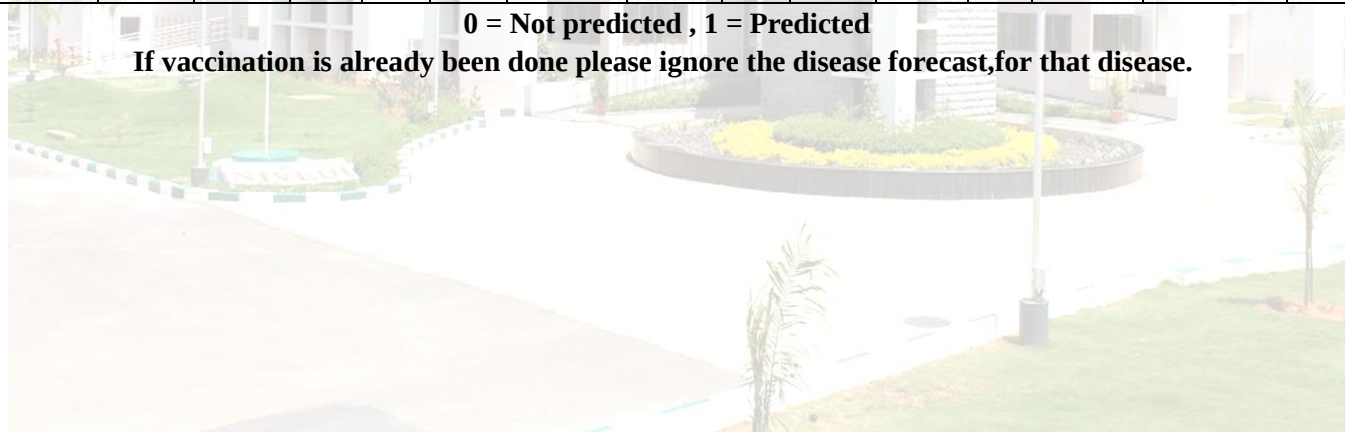
If vaccination is already been done please ignore the disease forecast, for that disease.

District wise Livestock Disease forewarning for June 2017: Manipur

Districts of Manipur	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Bishnupur	0	0	0	0	0	1	1	0	0	0	1	0	0	3
Churachandpu r	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Temenglong	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Thoubal	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Ukhrul	0	0	1	0	0	0	0	0	0	0	0	0	0	1
No.of Disease Districts likely to report	0	0	4	0	0	1	1	0	0	0	1	0	0	7

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.



District wise Livestock Disease forewarning for June 2017: Meghalaya

Districts of Meghalaya	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
East Jaintia Hills	0	0	0	0	0	0	1	0	0	0	1	0	0	2
East khasi hills	0	0	1	0	0	0	1	0	0	0	1	0	0	3
Jaintia hills	0	0	1	0	0	0	0	0	0	0	1	0	0	2
Ri bhoi	0	0	0	0	0	0	1	0	0	0	1	0	0	2
West garo hills	0	0	1	0	0	0	1	0	0	0	1	0	0	3
West khasi hills	0	0	1	0	0	0	1	0	0	0	1	0	0	3
No.of Disease Districts likely to report	0	0	4	0	0	0	5	0	0	0	6	0	0	15

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.



District wise Livestock Disease forewarning for June 2017: Mizoram

Districts of Mizoram	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Aizawl	0	0	1	0	0	1	1	0	0	0	1	0	0	4
Lunglei	0	0	0	0	0	1	1	0	0	0	0	0	0	2
Mamit	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Saiha	0	0	0	0	0	1	1	0	0	0	0	0	0	2
Serchhip	0	0	0	0	0	1	1	0	0	0	0	0	0	2
No.of Disease Districts likely to report	0	0	2	0	0	4	4	0	0	0	1	0	0	11

0 = Not predicted , 1 = Predicted

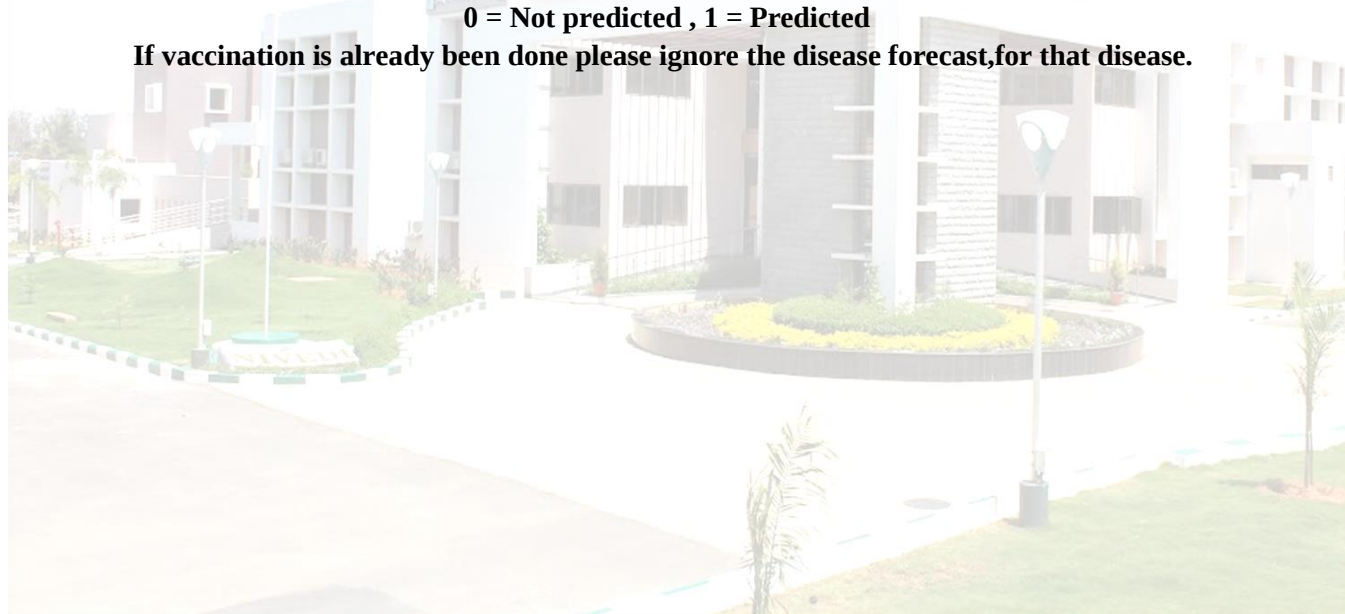
If vaccination is already been done please ignore the disease forecast,for that disease.

District wise Livestock Disease forewarning for June 2017: Nagaland

Districts of Nagaland	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Wokha	0	0	0	0	0	0	1	0	0	0	0	0	0	1
No.of Disease Districts likely to report	0	0	0	0	0	0	1	0	0	0	0	0	0	1

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.



District wise Livestock Disease forewarning for June 2017: NCT OF DELHI

Districts of Nagaland	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Central	0	0	0	0	0	0	1	0	0	0	0	0	0	1
North West	0	0	0	0	0	0	0	0	0	0	1	0	0	1
South West	0	0	0	0	0	0	0	0	0	0	1	0	0	1
West	0	0	0	0	0	0	1	0	0	0	0	0	0	1
No.of Disease Districts likely to report	0	0	0	0	0	0	2	0	0	0	2	0	0	4

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.



District wise Livestock Disease forewarning for June 2017: Odisha

Districts of Odisha	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Baleshwar	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Bhadrak	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Cuttack	0	0	1	0	0	0	1	1	1	0	0	0	0	4
Gajapati	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Ganjam	0	0	1	0	0	0	1	1	1	0	0	0	0	4
Jagatsinghpur	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Jajapur	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Kandhamal	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Kendrapara	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Khordha	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Koraput	0	0	1	0	0	0	0	1	1	0	0	0	0	3
Malkangiri	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Juneurbhanj	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Nayagarh	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Puri	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Rayagada	0	0	1	0	0	0	0	0	0	0	0	0	0	1
No.of Disease Districts likely to report	0	1	15	0	0	0	2	3	3	0	0	0	0	24

0 = Not predicted , 1 = Predicted

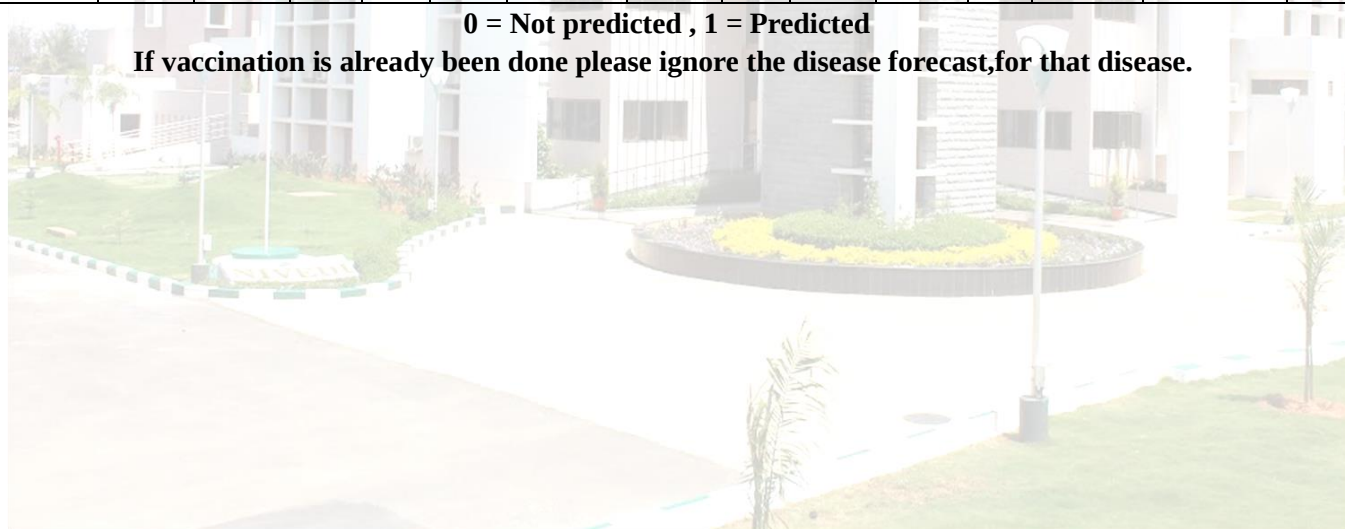
If vaccination is already been done please ignore the disease forecast,for that disease.

District wise Livestock Disease forewarning for June 2017: Puducherry

Districts of Puducherry	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
No.of Disease Districts likely to report	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.

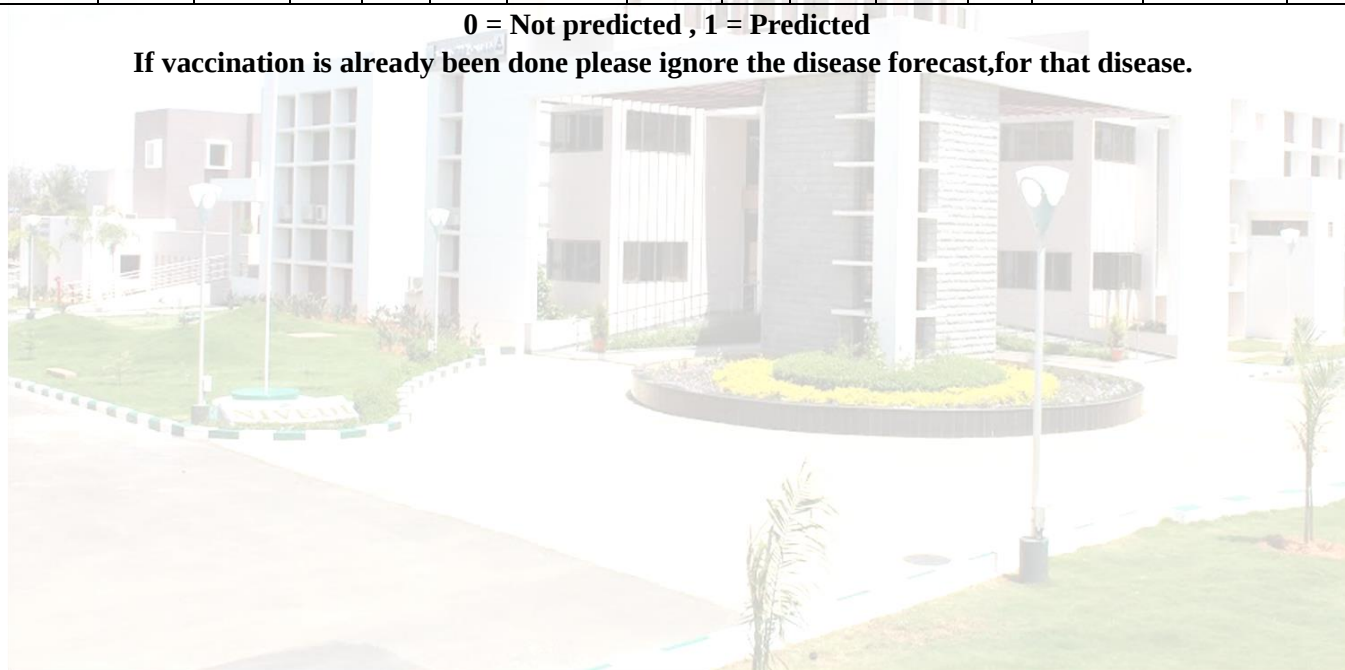


District wise Livestock Disease forewarning for June 2017: Punjab

Districts of Punjab	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
No.of Disease Districts likely to report	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.

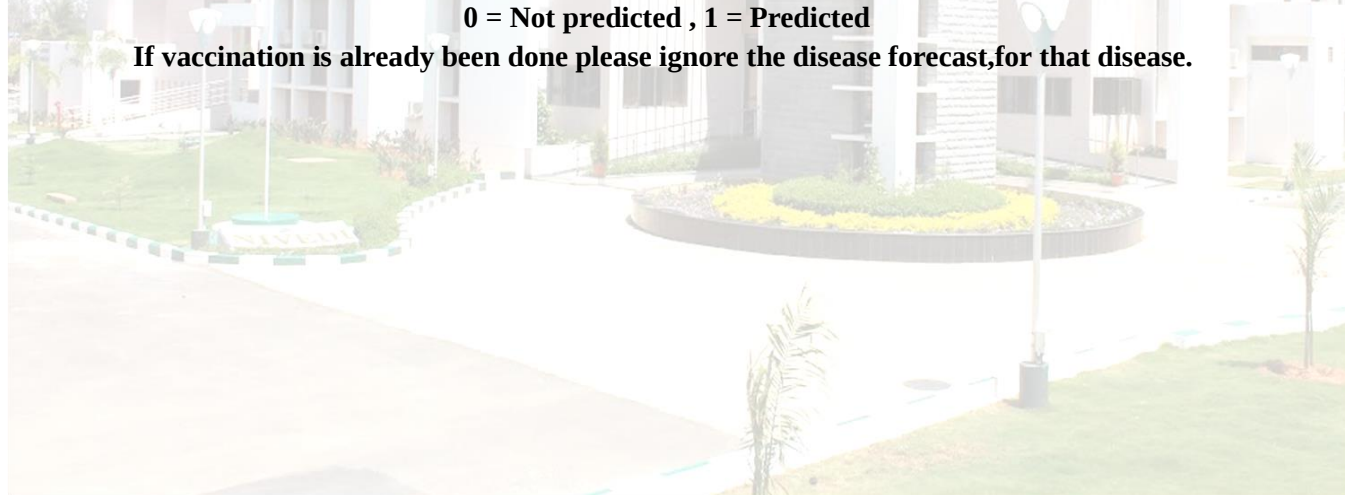


District wise Livestock Disease forewarning for June 2017: Rajasthan

Districts of Rajasthan	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Bikaner	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Jaisalmer	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Nagaur	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Sikar	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Udaipur	0	0	1	0	0	0	0	1	0	0	0	0	0	2
No.of Disease Districts likely to report	0	0	3	0	0	0	2	1	0	0	0	0	0	6

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.

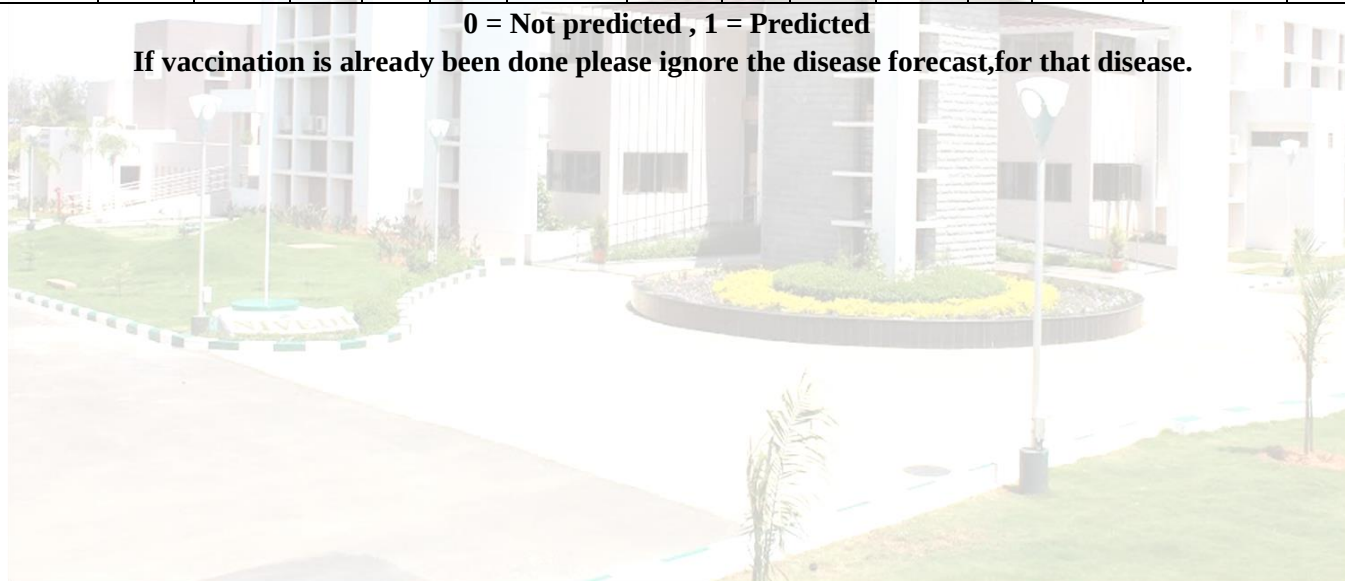


District wise Livestock Disease forewarning for June 2017: Sikkim

Districts of Sikkim	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
No.of Disease Districts likely to report	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.



District wise Livestock Disease forewarning for June 2017: Tamil Nadu

Districts of Tamil Nadu	Livestock Disease													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Coimbatore	1	0	0	0	0	0	1	0	0	0	0	0	0	2
Cuddalore	1	0	1	0	0	0	0	0	0	0	0	0	0	2
Dharmapuri	1	0	0	0	0	0	1	0	0	0	0	0	0	2
Dindigul	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Erode	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Kancheepuram	1	0	1	0	0	0	0	0	0	0	0	0	0	2
Kanniyakumari	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Karur	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Krishnagiri	0	0	0	0	1	0	0	0	0	1	0	0	0	2
Madurai	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Pudukkottai	1	0	1	0	1	0	1	0	0	0	0	0	0	4
Salem	1	0	1	0	0	0	1	0	1	0	0	0	0	4
Sivaganga	1	0	0	0	1	0	0	0	0	0	0	0	0	2
Thanjavur	1	0	1	0	0	0	1	0	0	0	0	0	0	3
The Nilgiris	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Thiruvallur	1	0	1	0	0	0	0	0	0	0	0	0	0	2
Thiruvarur	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Tiruchirappalli	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Tirunelveli	1	0	1	0	0	0	1	1	1	0	0	0	0	5
No.of Disease Districts likely to report	13	0	8	0	3	1	8	2	2	1	0	0	0	38

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.

District wise Livestock Disease forewarning for June 2017: Telangana

Districts of Telangana	Livestock Diseases													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
Adilabad	0	0	1	0	1	0	1	1	1	1	0	0	0	6
Hyderabad	0	0	1	0	1	0	0	1	0	1	0	0	0	4
Karimnagar	0	0	1	0	1	0	1	1	1	1	0	0	0	6
Khammam	1	0	1	0	1	0	1	1	1	1	0	0	0	7
Mahbubnagar	1	0	1	1	1	0	1	1	1	1	0	0	0	8
Medak	0	0	1	0	1	0	0	1	1	1	0	0	0	5
Nalgonda	1	0	1	0	1	0	0	1	1	1	0	0	0	6
Nizamabad	0	0	1	0	1	0	0	1	1	0	0	0	0	4
Rangareddy	0	0	1	0	1	0	1	1	1	1	0	0	0	6
Warangal	0	0	1	0	1	0	0	1	1	1	0	0	0	5
No.of Disease Districts likely to report	3	0	10	1	10	0	5	10	9	9	0	0	0	57

0 = Not predicted , 1 = Predicted

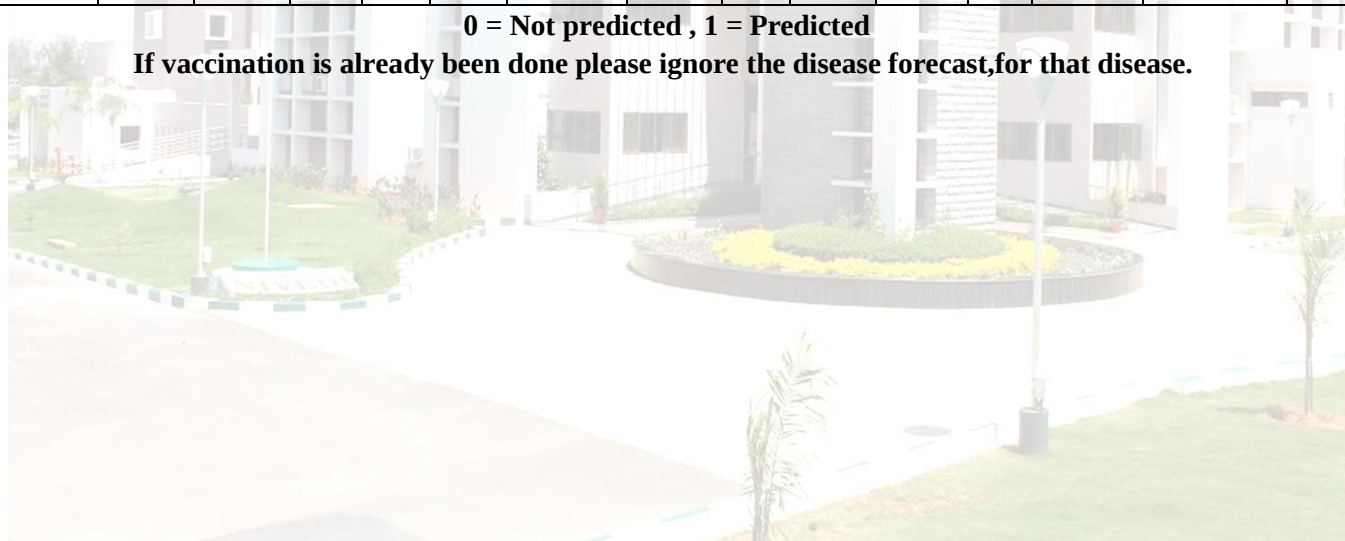
If vaccination is already been done please ignore the disease forecast,for that disease.

District wise Livestock Disease forewarning for June 2017: Tripura

Districts of Tripura	Livestock Disease													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
North Tripura	0	0	0	0	0	0	1	0	0	0	0	0	0	1
South Tripura	0	1	0	0	0	1	1	0	0	1	0	0	0	4
West Tripura	0	0	1	0	0	0	1	0	0	0	1	0	0	3
No.of Disease Districts likely to report	0	1	1	0	0	1	3	0	0	1	1	0	0	8

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.

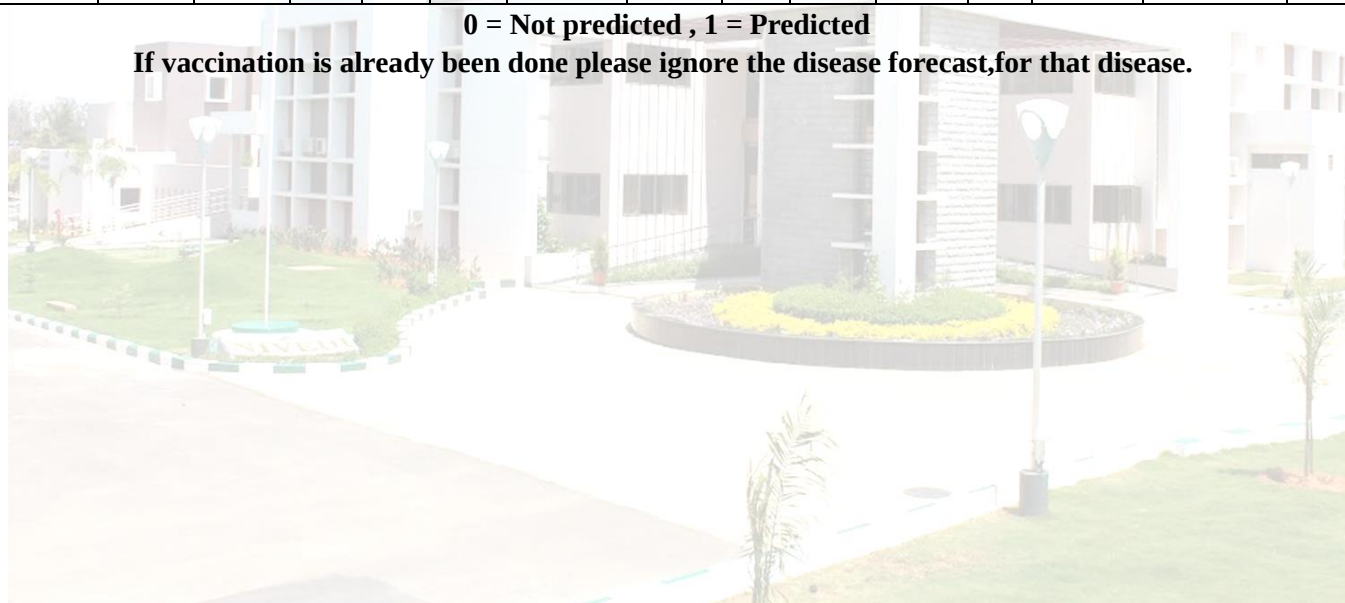


District wise Livestock Disease forewarning for June 2017: Uttar Pradesh

Districts of Uttar Pradesh	Livestock Disease													No. of Diseases likely to occur
	Anthrax	Babesiosis	BQ	BT	ET	Fascioliasis	FMD	HS	PPR	S&G Pox	SF	Theileriosis	Trypanosomiasis	
Lalitpur	0	0	0	0	0	0	0	0	1	0	0	0	0	1
No. of Disease Districts likely to report	0	0	0	0	0	0	0	0	1	0	0	0	0	1

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast, for that disease.





District wise Livestock Disease forewarning for June 2017: Uttarakhand

Districts of Uttarakhand	Livestock Disease													No. of Diseases likely to occur
	Anth rax	Babe siosis	BQ	BT	ET	Fasciol iasis	FMD	HS	PPR	S&G Pox	SF	Theile riosis	Trypano somiasis	
No.of Disease Districts likely to report	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast,for that disease.

District wise Livestock Disease forewarning for June 2017: West Bengal

Districts of West Bengal	Livestock Disease													No. of Diseases likely to occur
	Anthrax	Babesiosis	BQ	BT	ET	Fascioliasis	FMD	HS	PPR	S&G Pox	SF	Theileriosis	Trypanosomiasis	
Bankura	1	0	1	0	0	0	1	1	1	0	0	0	0	5
Bardhaman	1	0	1	0	0	0	1	1	1	1	0	0	0	6
Birbhum	1	0	1	0	0	0	1	1	1	1	0	0	0	6
Darjiling	0	0	1	0	0	0	1	0	0	0	0	0	0	2
Hugli	1	0	1	0	0	0	0	0	1	0	0	0	0	3
Jalpaiguri	0	0	1	0	0	0	1	1	1	0	0	0	0	4
Koch Bihar	0	0	1	0	0	0	0	0	1	0	0	0	0	2
Maldah	1	0	1	0	0	0	0	0	1	0	0	0	0	3
Murshidabad	1	1	1	0	0	0	1	1	1	0	0	0	0	6
Nadia	1	0	1	0	0	0	0	1	1	0	0	0	0	4
North 24 Parganas	1	0	1	0	0	0	1	1	1	0	0	0	0	5
Pashchim Medinipur	1	0	1	0	0	0	1	1	1	0	0	0	0	5
South 24 Parganas	0	0	1	0	0	0	1	1	1	1	0	0	0	5
Uttar Dinajpur	1	0	1	0	0	0	0	0	1	0	0	0	0	3
No. of Disease Districts likely to report	10	1	14	0	0	0	9	9	13	3	0	0	0	59

0 = Not predicted , 1 = Predicted

If vaccination is already been done please ignore the disease forecast, for that disease.

State wise Livestock Disease forewarning for June 2017

Sl.No	State Name	Anthrax	Babesiosis	BQ	BT	ET	Fascioliasis	FMD	HS	PPR	S&G Pox	SF	Theileriosis	Trypanosomiasis	Total no. of Diseases events likely to occur
1	Andaman and Nicobar	0	3	0	0	0	3	0	0	0	0	0	0	0	6
2	Andhra Pradesh	12	0	13	2	13	1	11	13	13	11	0	0	4	93
3	Arunachal Pradesh	0	0	0	0	0	7	0	0	0	0	0	0	0	7
4	Assam	1	0	20	0	0	9	14	15	0	0	5	0	0	64
5	Bihar	0	0	8	0	0	24	5	20	0	0	0	0	18	75
6	Chhattisgarh	0	0	3	0	0	0	0	4	0	0	0	0	0	7
7	Dadra and Nagar Haveli	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Daman and Diu	0	0	1	0	0	0	1	0	0	0	0	0	0	2
9	Goa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Gujarat	0	0	9	0	0	0	15	21	0	1	0	0	0	46
11	Haryana	0	0	0	0	1	0	1	0	0	0	0	0	0	2
12	Himachal Pradesh	0	0	1	0	0	0	2	0	0	0	0	0	0	3
13	Jammu and Kashmir	0	0	3	0	0	0	11	1	0	12	0	0	0	27
14	Jharkhand	0	20	15	0	0	13	2	14	0	0	0	21	22	107
15	Karnataka	13	2	26	0	15	0	26	27	5	10	0	0	0	124
16	Kerala	12	13	10	0	0	4	13	12	6	0	2	14	0	86
17	Lakshadweep	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Madhya Pradesh	0	0	3	0	0	0	0	5	1	0	0	0	0	9
19	Maharashtra	2	0	19	0	3	0	4	22	3	3	0	0	0	56
20	Manipur	0	0	4	0	0	1	1	0	0	0	1	0	0	7
21	Meghalaya	0	0	4	0	0	0	5	0	0	0	6	0	0	15
22	Mizoram	0	0	2	0	0	4	4	0	0	0	1	0	0	11
23	Nagaland	0	0	0	0	0	0	1	0	0	0	0	0	0	1
24	Nct of Delhi	0	0	0	0	0	0	2	0	0	0	2	0	0	4
25	Orissa	0	1	15	0	0	0	2	3	3	0	0	0	0	24
26	Puducherry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Punjab	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Rajasthan	0	0	3	0	0	0	2	1	0	0	0	0	0	6
29	sikkim	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Tamil Nadu	13	0	8	0	3	1	8	2	2	1	0	0	0	38
31	Telangana	3	0	10	1	10	0	5	10	9	9	0	0	0	57
32	Tripura	0	1	1	0	0	1	3	0	0	1	1	0	0	8
33	Uttar Pradesh	0	0	0	0	0	0	0	0	1	0	0	0	0	1
34	Uttarakhand	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	West Bengal	10	1	14	0	0	0	9	9	13	3	0	0	0	59
Total No districts likely to report		66	41	192	3	45	68	147	179	56	51	18	35	44	945

Andaman and Nicobar

All the districts in the state are likely to report Babesiosis and Fascioliasis diseases.

Andhra Pradesh

A total of 13 districts in Andhra Pradesh are likely report the major 10 livestock diseases. i.e., Anthrax, Black Quarter, Bluetongue, Enterotoxaemia, Fascioliasis, Foot and Mouth Disease, Haemorrhagic Septicaemia, Peste des petits ruminants, Sheep & Goat pox and Trypanosomiasis in which Black Quarter, Enterotoxaemia, Haemorrhagic Septicaemia and Peste des petits ruminants are predicted for 13 districts while Anthrax is predicted in all the 12 districts. Foot and Mouth Disease and Sheep & Goat pox are predicted for 11 districts. Trypanosomiasis is likely to occur in 4 districts while Anantapur is only district likely to have Fascioliasis.

Arunachal Pradesh

All the districts in the state are likely to report Fascioliasis.

Assam

A total of 21 districts from Assam are likely to report 6 livestock diseases i.e., Anthrax, Black Quarter, Fascioliasis, Foot and Mouth disease, Haemorrhagic Septicaemia and Swine Fever; in which Foot and Mouth disease is predicted in 14 districts and 20 districts are prone to Black Quarter. 15 districts are prone to Haemorrhagic Septicaemia. 9 districts are prone to Fascioliasis. 5 districts are likely to have Swine Fever. Sonitpur is the only district prone to Anthrax.

Bihar

A total of 29 districts in Bihar are likely to report 5 diseases i.e. Black Quarter, Foot and Mouth disease, Fascioliasis, Haemorrhagic Septicaemia and Trypanosomiasis. 24 districts are likely to have Fascioliasis. Foot and Mouth disease is threat for 5 districts in Bihar. 18 districts are prone to Trypanosomiasis. 20 are prone to Haemorrhagic Septicaemia. 8 districts are prone to Black Quarter.

Chhattisgarh

Bastar, Durg, Raipur and Rajnandgaon are districts prone to Haemorrhagic Septicaemia while Bastar, Durg and Raipur are prone to Black Quarter.

Daman and Diu

Daman is likely to report Black Quarter and Foot and Mouth disease

Gujarat

A total of 21 districts in Gujarat are likely to report 4 diseases i.e., Black Quarter, Foot and Mouth disease, Haemorrhagic Septicaemia and Sheep & Goat pox. Foot and Mouth disease is likely to occur in 15 districts. Haemorrhagic Septicaemia is predicted in 21 districts. Black Quarter is prone to 9 districts. Sheep & Goat pox is predicted in Banas Kantha districts.

Haryana

Hisar is the district likely to report Enterotoxaemia and Foot and Mouth disease.

Himachal Pradesh

Kangra and Kullu are districts likely to have Foot and Mouth disease while Kullu is the districts prone to Black Quarter.

Jammu and Kashmir

A total of 12 districts in Jammu and Kashmir are likely to report 4 diseases i.e., Black Quarter, Foot and Mouth disease, Haemorrhagic Septicaemia and Sheep & Goat pox. Foot and Mouth disease is predicted in 12 districts. Sheep & Goat pox disease is predicted in 11 districts. Black Quarter is likely to occur only in 3 districts. Udhampur is the district likely to have Haemorrhagic Septicaemia.

Jharkhand

A total of 22 districts in Jharkhand are likely to report 7 diseases i.e., Babesiosis, Black Quarter, Fascioliasis, Foot and Mouth disease, Haemorrhagic Septicaemia, Theileriosis and Trypanosomiasis. Trypanosomiasis is likely to report in 22 districts. Babesiosis is likely to occur in 20 districts while Theileriosis disease is likely to occur in 21 districts. Fascioliasis is predicted in 13 districts. Foot and Mouth disease is likely to occur in Dumka and Ranchi while Haemorrhagic Septicaemia are predicted for 14 districts. Black Quarter is likely to occur in 15 districts.

Karnataka

A total of 27 districts in Karnataka are likely to report 8 diseases i.e., Anthrax, Babesiosis, Black Quarter, Enterotoxaemia, Foot and Mouth disease, Haemorrhagic Septicaemia, Peste des petits ruminants and Sheep & Goat pox. 26 districts are prone to Foot and Mouth disease. 26 districts are prone to Black Quarter and 27 districts are prone to Haemorrhagic Septicaemia. Enterotoxaemia and Sheep & Goat pox is likely to occur in 15 and 10 districts respectively. Anthrax is likely to occur in 13 districts. Peste des petits ruminants is threat for 5 districts.

Kerala

A total of 14 districts in Kerala are likely to report 9 diseases i.e., Anthrax, Babesiosis, Black Quarter, Fascioliasis, Foot & Mouth disease, Haemorrhagic Septicaemia, Peste des petits ruminants, Swine Fever and Theileriosis. 14 districts are prone to Theileriosis. 13 districts are prone to Babesiosis and Foot & Mouth disease. Anthrax and Haemorrhagic Septicaemia are threat to districts. Black Quarter is likely to occur in 10 districts. 6 districts are prone to Peste des petits ruminants.

Madhya Pradesh

A total of 6 districts in Madhya Pradesh likely to have 3 diseases i.e., Black Quarter, Haemorrhagic Septicaemia and Peste des petits ruminants. 5 districts are prone to Haemorrhagic Septicaemia. Balaghat, Betul and Chhindwara are the districts prone to Black Quarter while Betul is the only districts prone to Peste des petits ruminants.

Maharashtra

A total of 22 districts in Maharashtra are likely to report 6 diseases i.e., Anthrax, Black Quarter, Enterotoxaemia, Foot and Mouth disease, Haemorrhagic Septicaemia, Peste des petits ruminants and Sheep and Goat pox. Haemorrhagic Septicaemia disease is threat to 22 districts. Foot and Mouth disease is likely to occur in 4 districts. Black Quarter is likely to occur in 19 districts while 3 districts are prone to Peste des petits ruminants and Sheep and Goat pox. Anthrax is likely to occur in Ahmadnagar and Pune districts.

Manipur

A total of 5 districts in Manipur are likely to report Black Quarter, Fascioliasis, Foot and Mouth disease and Swine fever. 4 districts are prone to Black Quarter while Bishnupur is the only district likely to have Fascioliasis, Foot and Mouth disease and Swine fever

Meghalaya

A total of 6 districts in Meghalaya are likely to report 3 diseases i.e., Black Quarter, Foot and Mouth disease and Swine Fever. Black Quarter is predicted in 4 districts while Swine Fever is likely to occur in 6 districts. 5 districts are prone to Foot and Mouth disease.

Mizoram

A total of 5 districts in Mizoram are likely to report 4 diseases i.e., Black Quarter, Fascioliasis, Foot and Mouth disease and Swine Fever. Fascioliasis and Foot and Mouth disease are predicted in 4 districts while Swine Fever is likely to occur in Aizawl districts. Aizawl and Mamit are the districts prone to Black Quarter.

Nagaland

Wokha districts in Nagaland are prone to Foot and Mouth disease.

NCT OF DELHI

North West and South West districts in NCT OF DELHI are prone to Swine Fever while Central and West are prone to Swine Fever.



Odisha

A total of 16 districts in Orissa are likely to report 5 diseases i.e., Babesiosis, Black Quarter, Foot and Mouth Disease, Haemorrhagic Septicaemia and Peste des petits ruminants. Black Quarter is threat for 15. Haemorrhagic Septicaemia and Peste des petits ruminants are likely to occur in 3 districts. Kendrapara is the only district prone to Babesiosis.

Rajasthan

A total of 5 districts in Rajasthan are likely to report 3 diseases i.e., Black Quarter is predicted for 3 districts. Foot and Mouth Disease predicted in Sikar and Nagaur districts. Haemorrhagic Septicaemia is threat in Udaipur district.

Tamil Nadu

A total of 19 districts in Tamil Nadu are likely to report 8 diseases i.e., Anthrax, Black Quarter, Fascioliasis, Enterotoxaemia, Foot and Mouth Disease, Haemorrhagic Septicaemia, Peste des petits ruminants and Sheep and Goat pox. Anthrax is predicted for 13 districts. Black Quarter is predicted in 8 districts. Peste des petits ruminants is threat for 2 districts. Foot and Mouth Disease is threat for 8 districts. The Nilgiris is the district prone to Fascioliasis while Kanniyakumari and Tirunelveli is prone to Haemorrhagic Septicaemia and Krishnagiri is the district prone to Sheep and Goat pox.

Telangana

A total of 10 districts in Telangana are likely report the major 8 livestock disease. i.e., Anthrax, Black Quarter, Bluetongue, Enterotoxaemia, Foot and Mouth Disease, Haemorrhagic Septicaemia, Peste des petits ruminants and Sheep and Goat pox; in which Peste des petits ruminants and Sheep and Goat pox are predicted in all the 9 districts. Black Quarter, Enterotoxaemia and Haemorrhagic Septicaemia are likely to occur in 10 districts. 5 districts are prone to Foot and Mouth Disease while 3 districts are prone to Anthrax. Mahbubnagar district is prone to Bluetongue.

Tripura

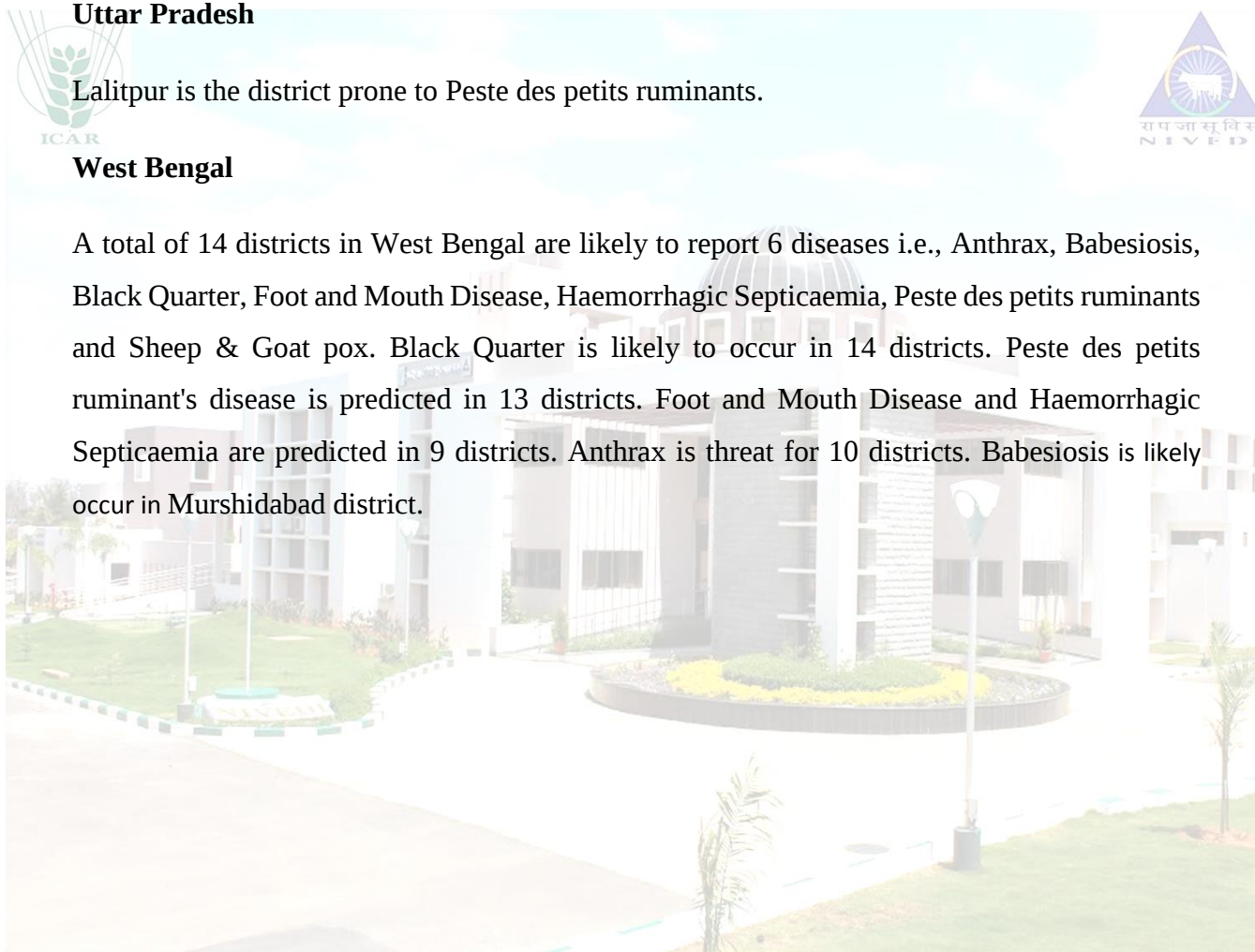
North Tripura, South Tripura and West Tripura are likely to report 6 diseases i.e., Babesiosis, Black Quarter, Fascioliasis, Foot and Mouth disease, Sheep & Goat pox and Swine Fever. Food and mouth disease is likely to occur in all 3 districts. South Tripura is prone to Babesiosis, Fascioliasis and Sheep & Goat pox. West Tripura is prone to Black Quarter and Swine Fever.

Uttar Pradesh

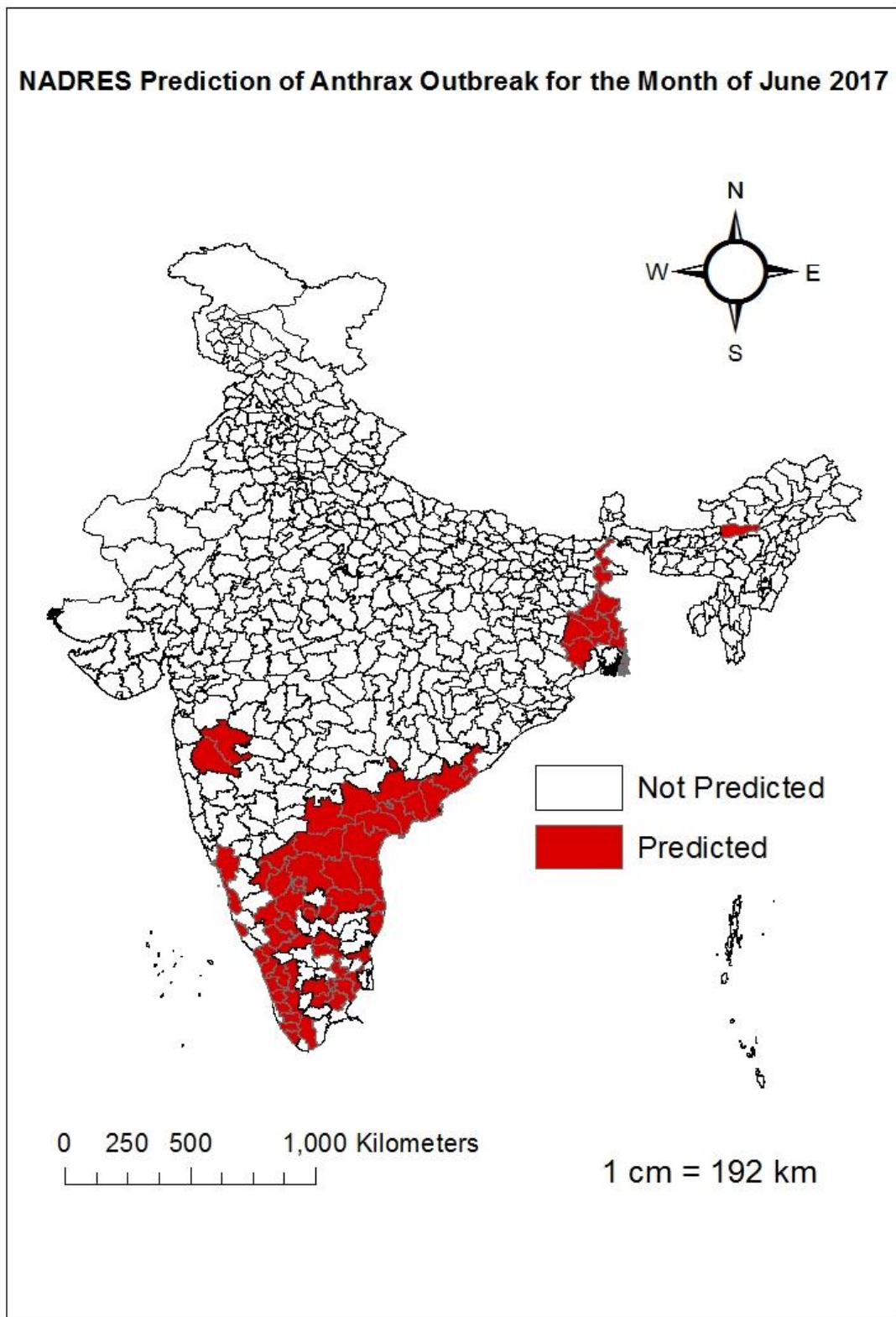
Lalitpur is the district prone to Peste des petits ruminants.

West Bengal

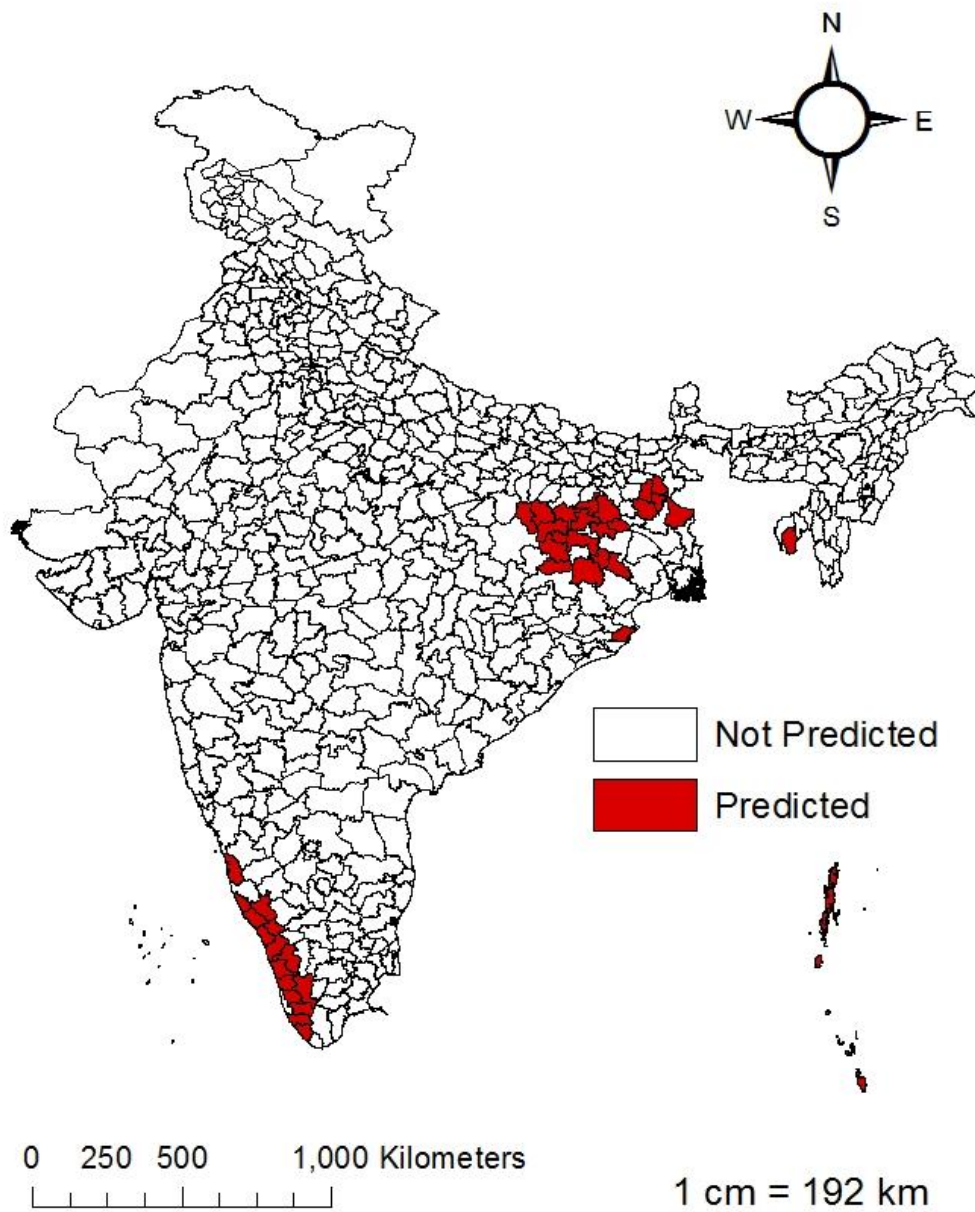
A total of 14 districts in West Bengal are likely to report 6 diseases i.e., Anthrax, Babesiosis, Black Quarter, Foot and Mouth Disease, Haemorrhagic Septicaemia, Peste des petits ruminants and Sheep & Goat pox. Black Quarter is likely to occur in 14 districts. Peste des petits ruminant's disease is predicted in 13 districts. Foot and Mouth Disease and Haemorrhagic Septicaemia are predicted in 9 districts. Anthrax is threat for 10 districts. Babesiosis is likely occur in Murshidabad district.



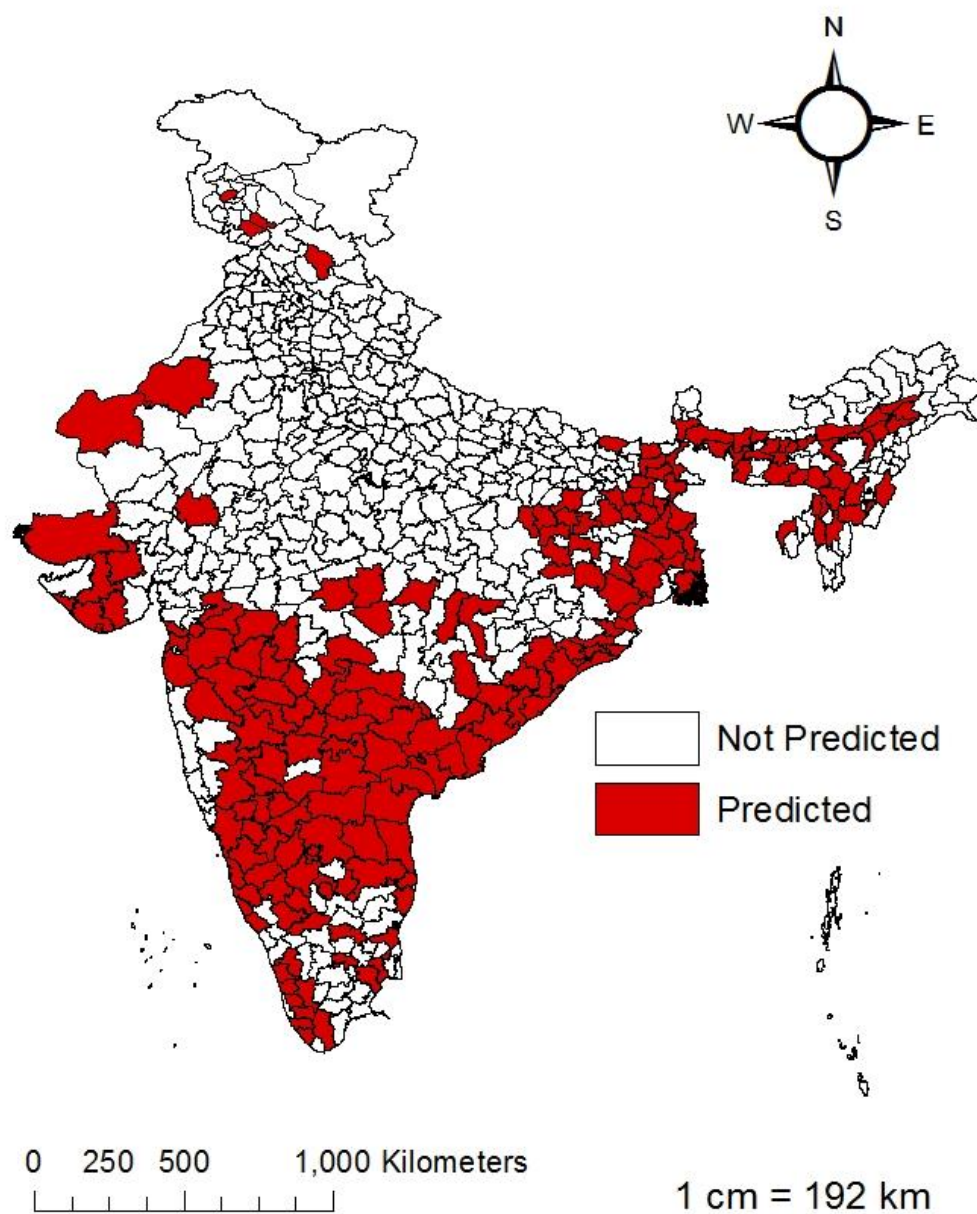
iii) Livestock disease forewarning Maps



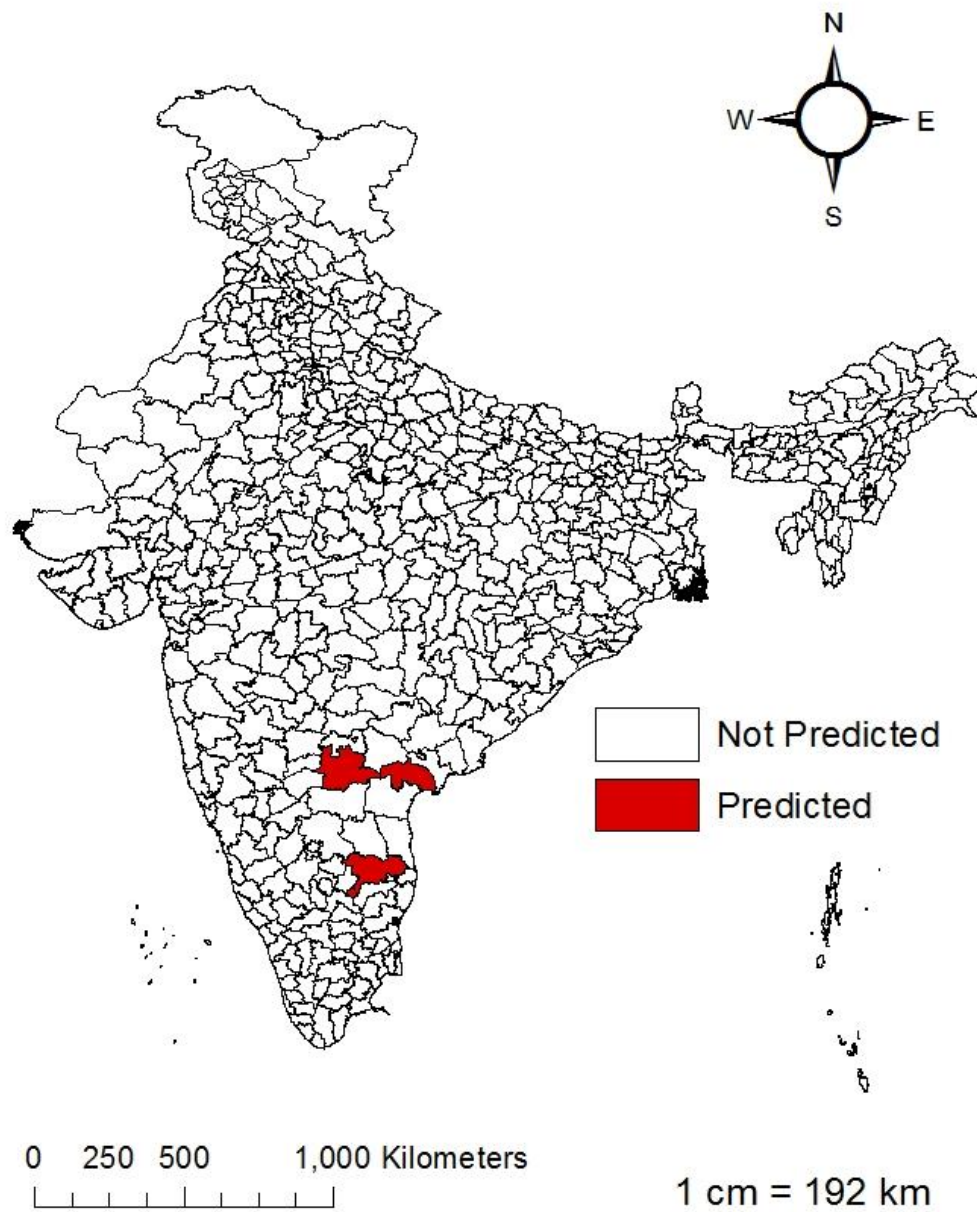
NADRES Prediction of Babesiosis Outbreak for the Month of June 2017



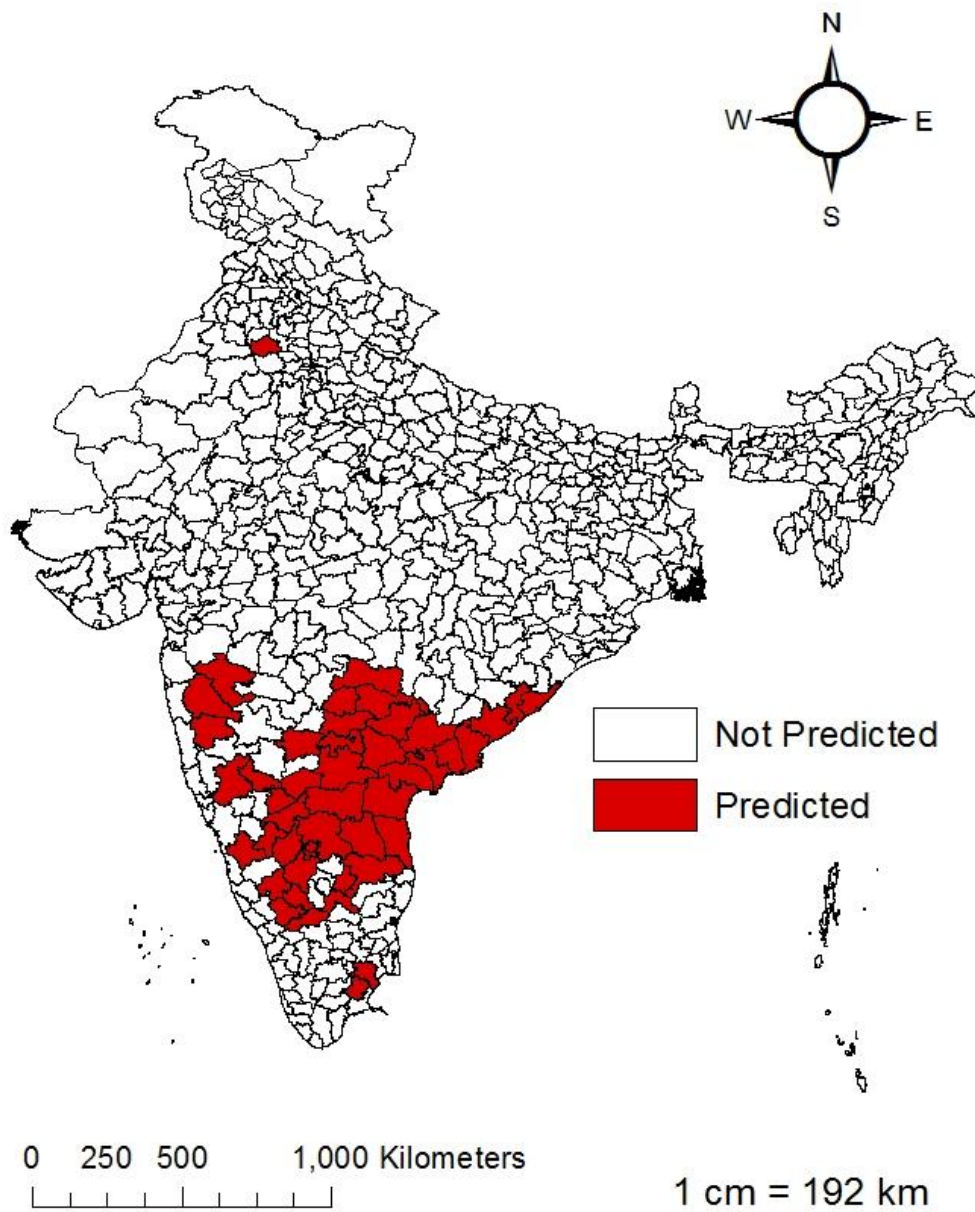
NADRES Prediction of BQ Outbreak for the Month of June 2017



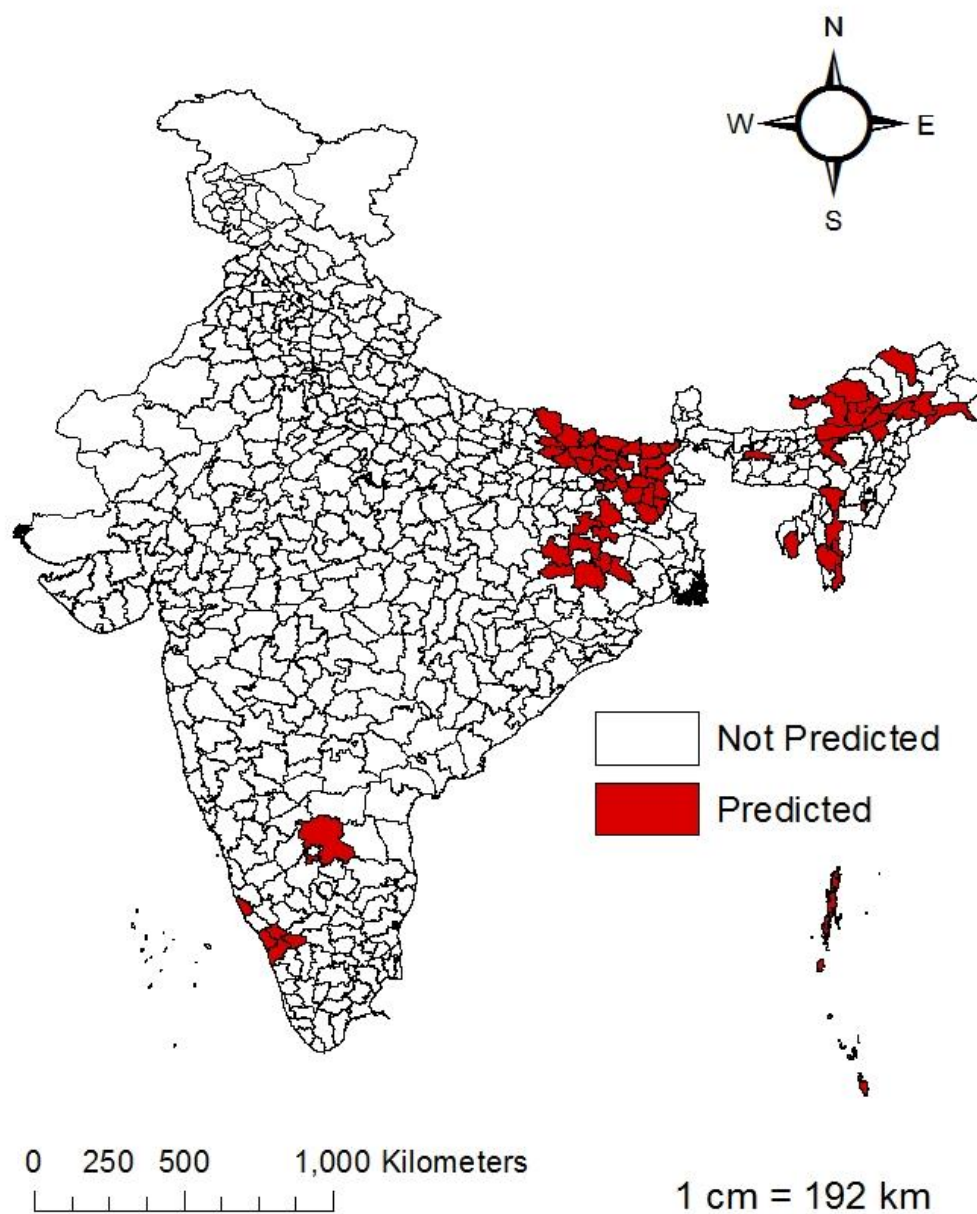
NADRES Prediction of Bluetongue Outbreak for the Month of June 2017



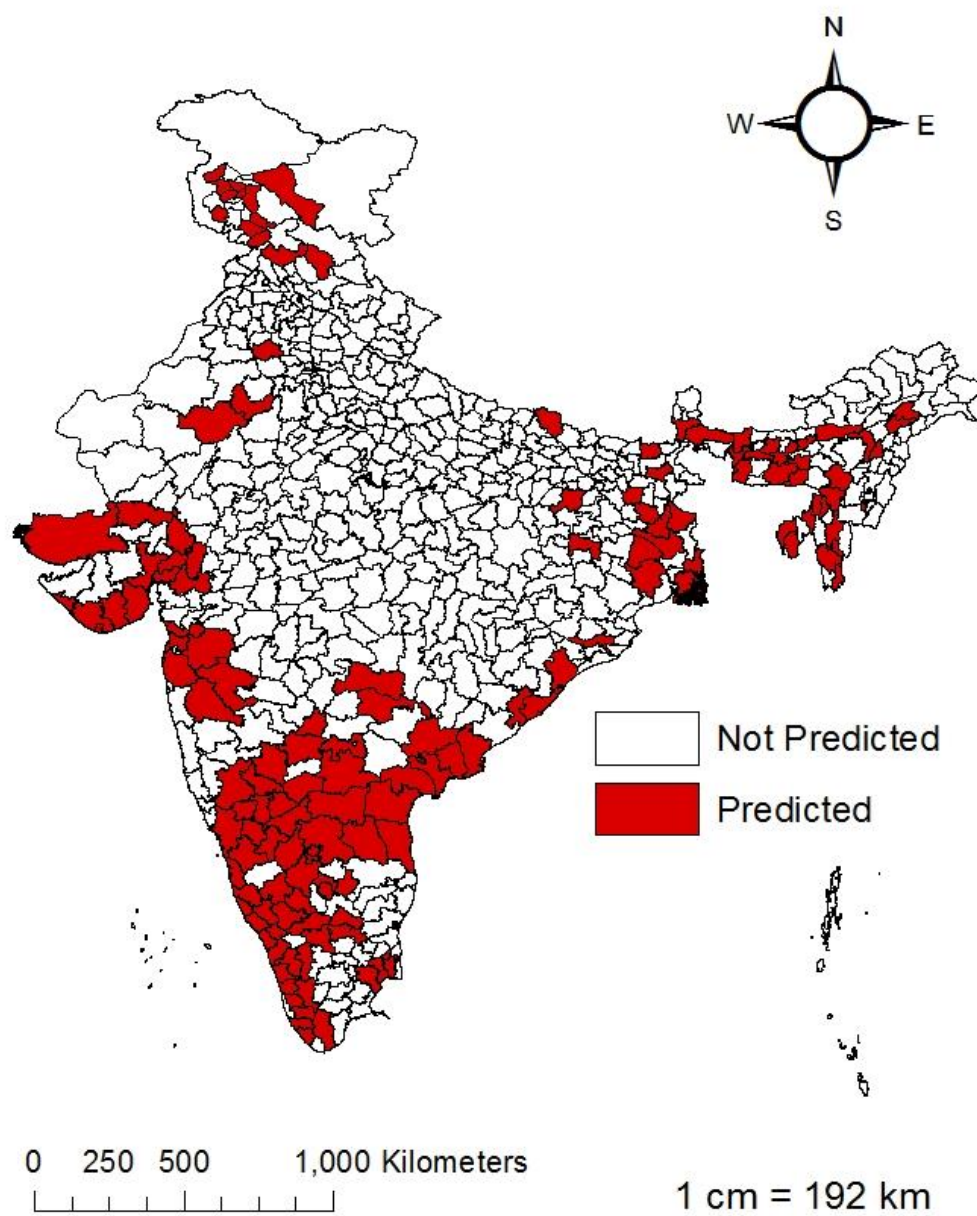
NADRES Prediction of Enterotoxaemia Outbreak for the Month of June 2017



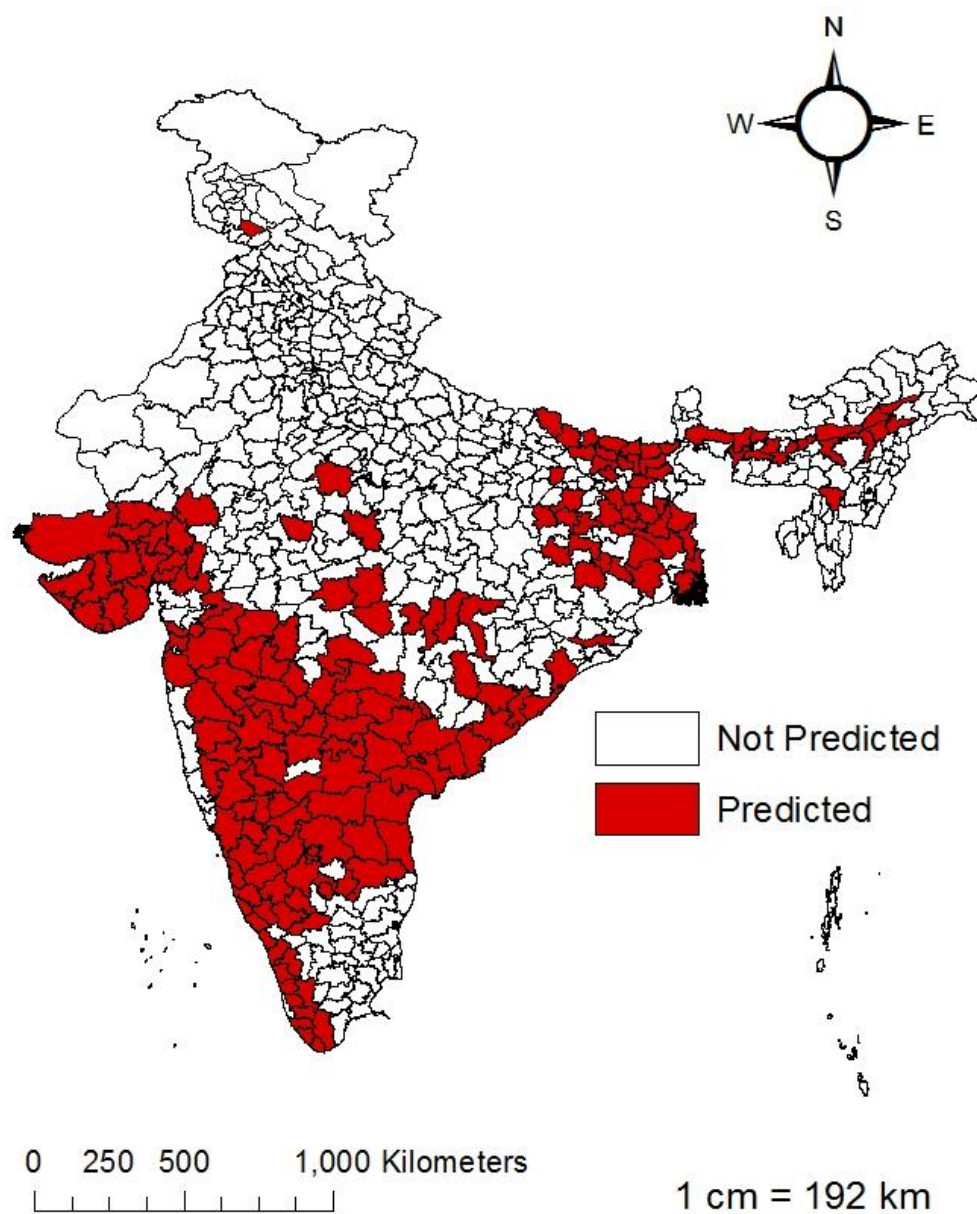
NADRES Prediction of Fascioliasis Outbreak for the Month of June 2017



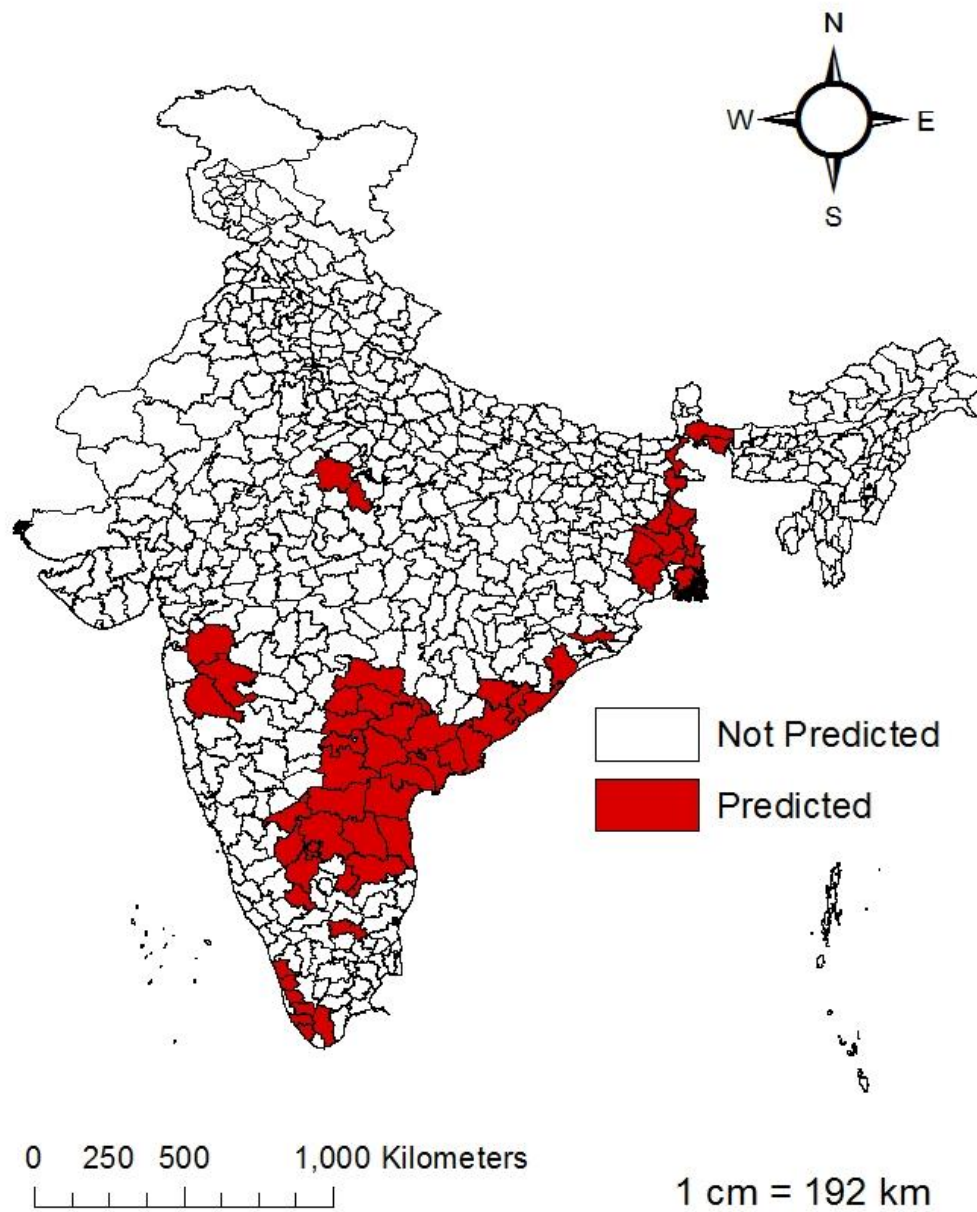
NADRES Prediction of FMD Outbreak for the Month of June 2017



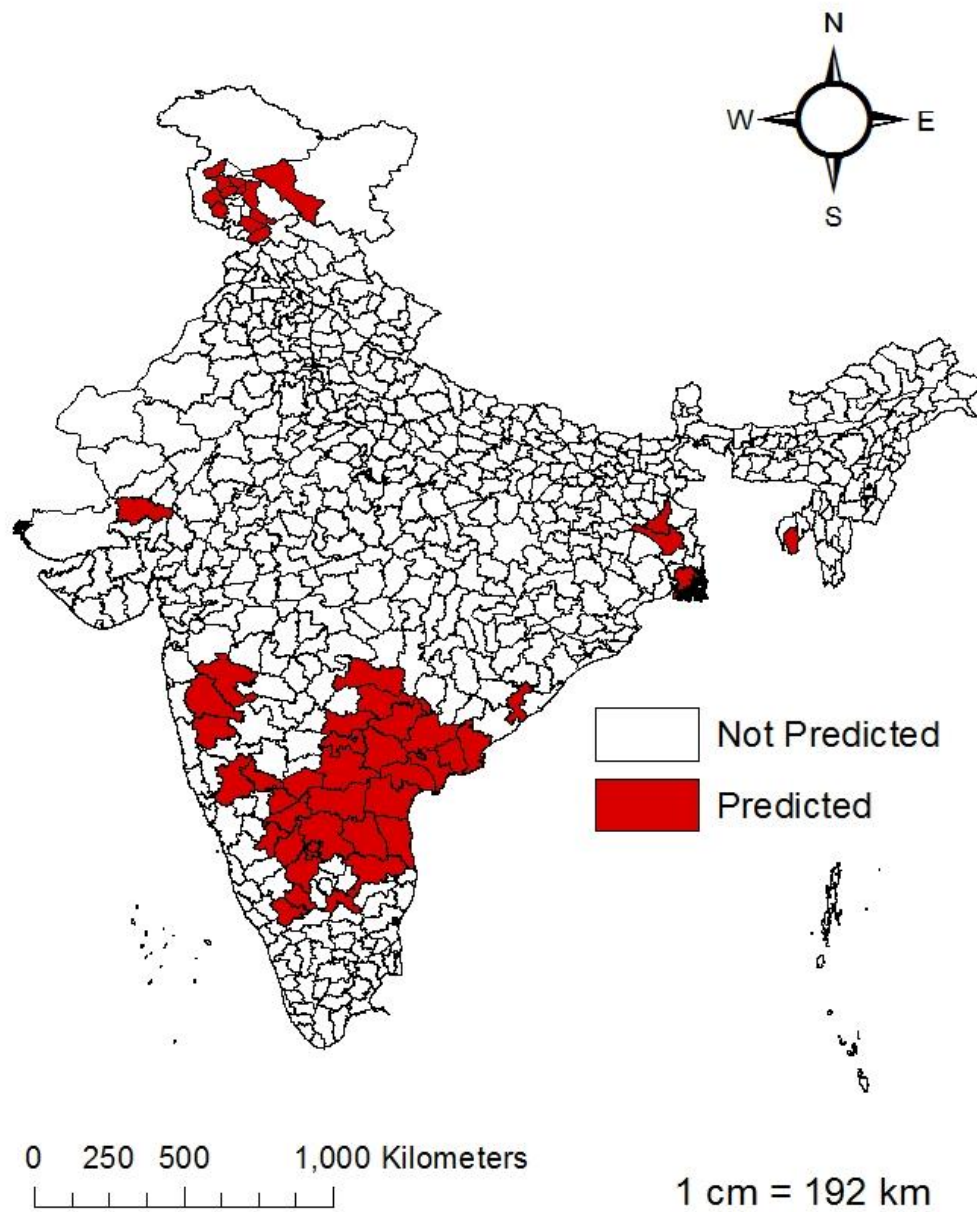
NADRES Prediction of HS Outbreak for the Month of June 2017



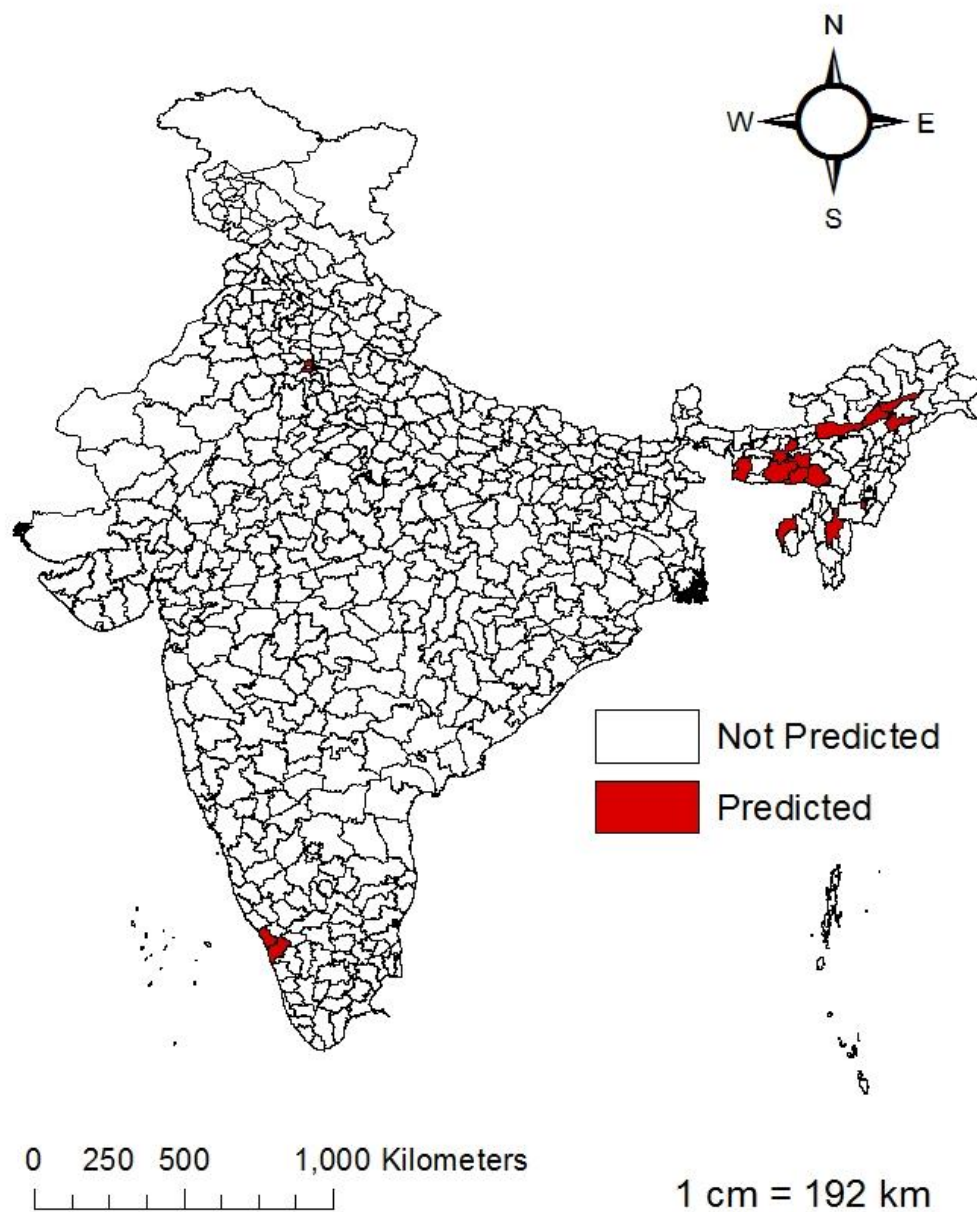
NADRES Prediction of PPR Outbreak for the Month of June 2017



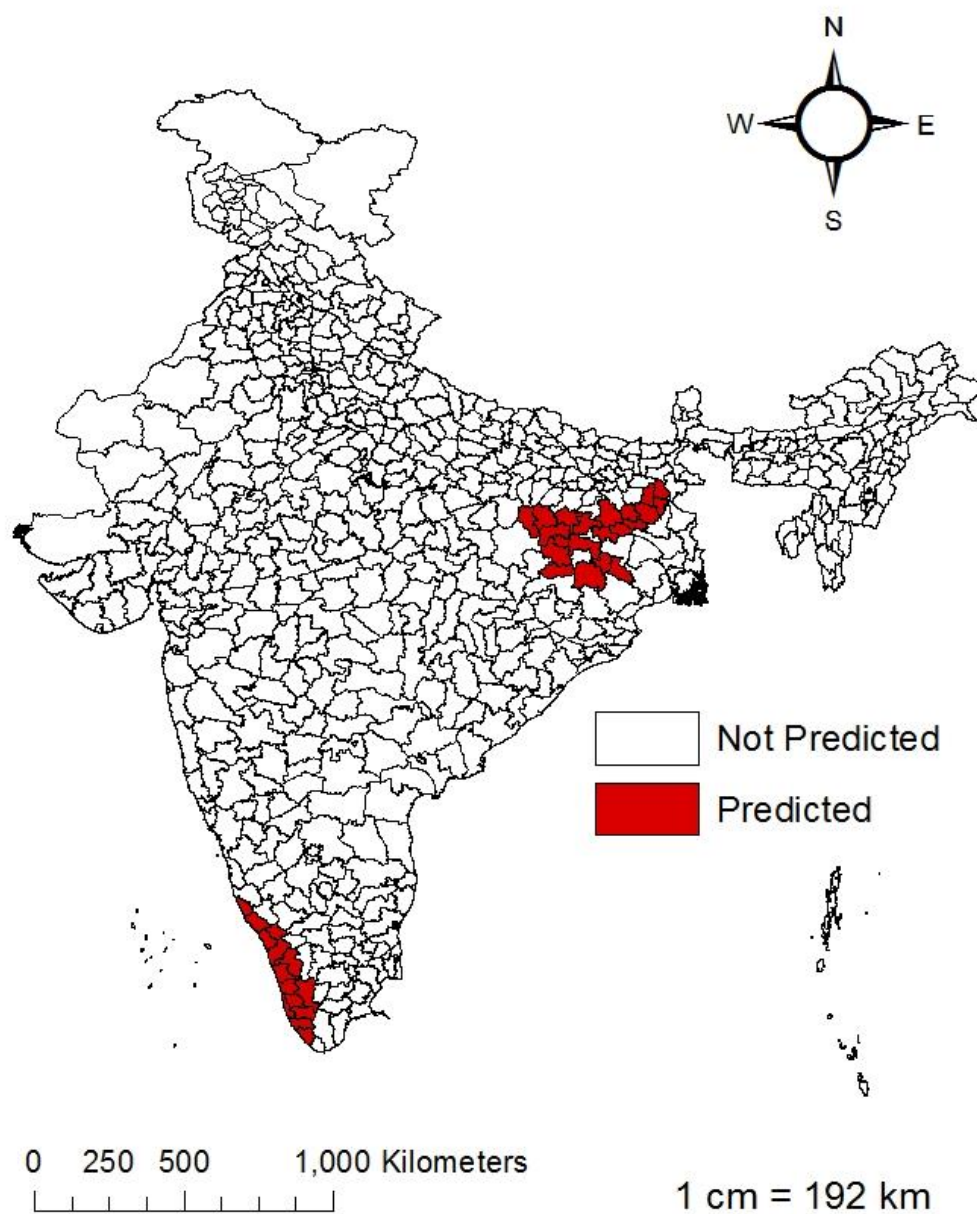
NADRES Prediction of S&G Pox Outbreak for the Month of June 2017



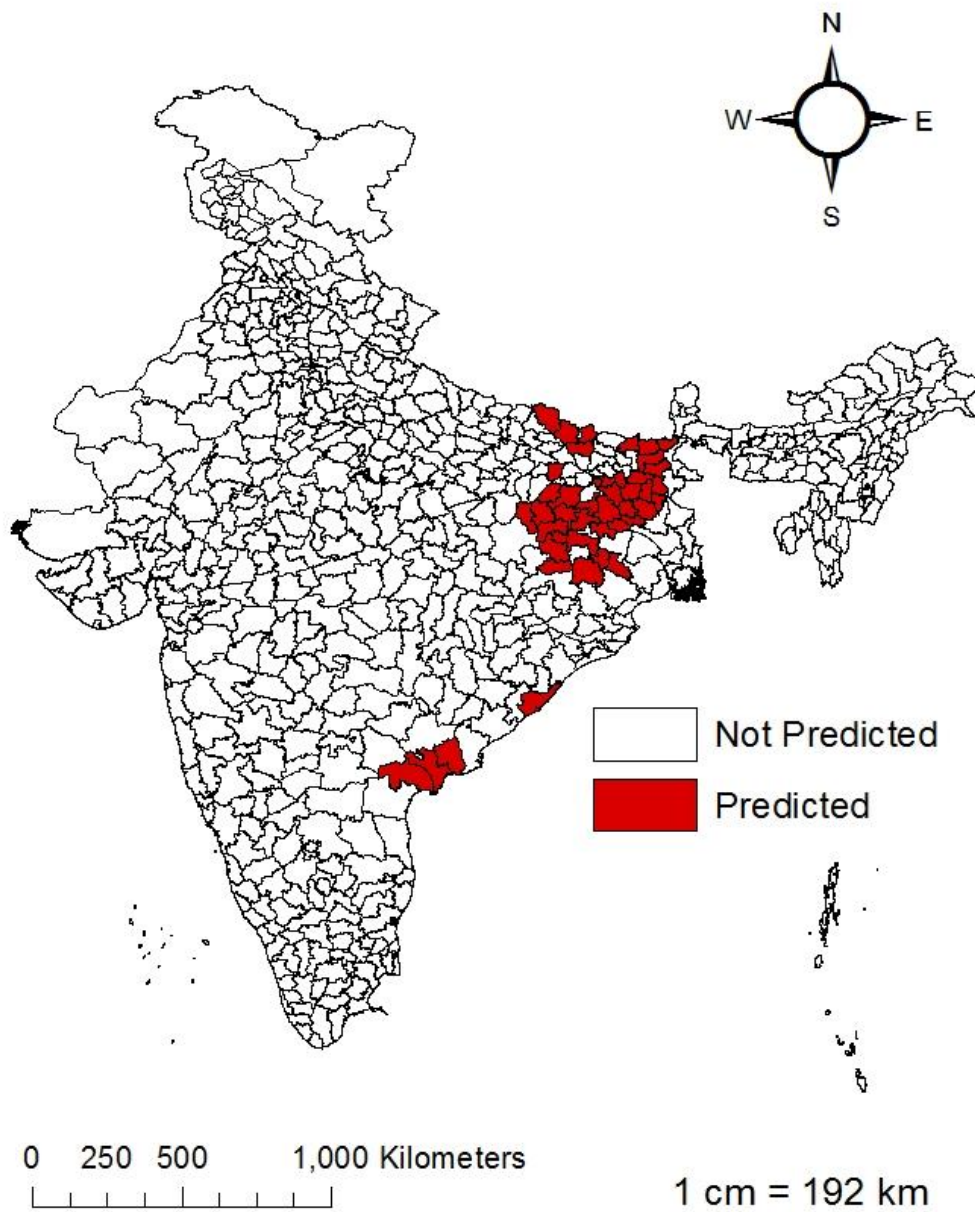
NADRES Prediction of Swine Fever Outbreak for the Month of June 2017



NADRES Prediction of Theileriosis Outbreak for the Month of June 2017



NADRES Prediction of Trypanosomiasis Outbreak for the Month of June 2017



Appendix

A. SAS Code

```
libname July"C:\Users\admin\Desktop\nadres\July";
run;
*import the final data and outbreak data*/
procSORT data= July.finalnadres;
by state_name district_name disease_name month;
run;
procSORT data= July.mayoutbreak;
by state_name district_name disease_name month;
run;
dataJuly.temp;
merge July.finalnadres July.mayoutbreak;
by state_name district_name disease_name month;
run;
procSQL;
update July.temp
set number_of_outbreaks=0
where number_of_outbreaks=.;
run;
dataJuly.finalJuly;
set July.temp;
outbrk1=outbreaks+number_of_outbreaks;
run;
dataJuly.July_final;
set July.finalJuly;
if outbrk1>=1 then outbrk=1;
else
outbrk=0;
run;

procEXPORT data=July.July_final outfile="C:\Users\admin\Desktop\nadres\July\July1.xlsx";
run;
```



B. Abbreviations

NADRES : National Animal Disease Referral Expert System

SAS : Statistical Analysis System

SPSS : Statistical Product and Service Solutions (or Statistical Package for the Social Sciences)

BQ : Black Quarter

BT : Blue tongue

ET : Enterotoxaemia

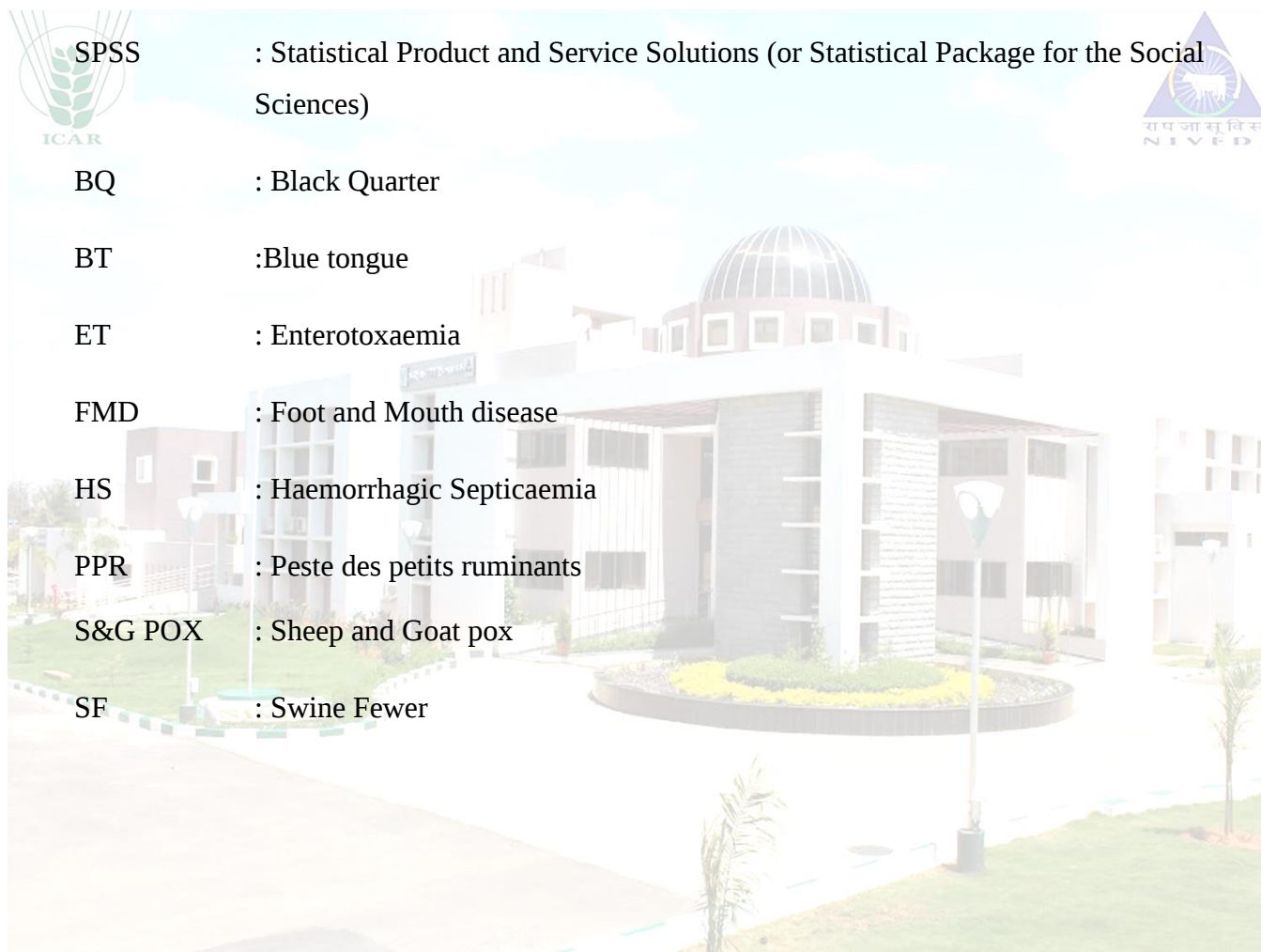
FMD : Foot and Mouth disease

HS : Haemorrhagic Septicaemia

PPR : Peste des petits ruminants

S&G POX : Sheep and Goat pox

SF : Swine Fever





हर कदम, हर डगर
किसानों का हमसफर
भारतीय कृषि अनुसंधान परिषद

Agrisearch with a human touch.



ICAR-National Institute of Veterinary Epidemiology and Disease Informatics (ICAR_NIVEDI),

P. B. No.6450, Yelahanka, Bengaluru-560064

Phone: +91-80-23093111, Fax: +91-80-23093222, Email: director.nivedi@icar.gov.in