



VET-ALERT

LIVESTOCK DISEASE RISK FOREWARNING BULLETIN
(Powered by AI & ML)



PREDICTION FOR
MARCH 2025



LINKED WITH FARMER REGISTRATION AND UNIFIED BENEFICIARY INFORMATION
SYSTEM (FRUITS) & DLT SMS ALERTS FOR VETERINARIANS

ICAR - National Institute of Veterinary Epidemiology and Disease Informatics

ICARNIVEDI

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Disclaimer

The forewarnings are based on the retrospective disease data available in the NADRES database. Hence, for those states where 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*.

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Director
ICAR- NIVEDI

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1. ABOUT THE BULLETIN....

Livestock sector plays a crucial role in the rural economy of India as around 20.5 million people depend upon livestock for their livelihood. Even though the investment in the livestock sector is meagre, tremendous achievements has been observed in the sector during the last decade. As it is an important component in poverty alleviation programmes, continuous emphasis is being laid on this sector for enhancing the quality of the primary and secondary products in the international market, which in turn demands improved animal health. Therefore, livestock development programmes cannot succeed unless a well-organized animal health service is built up and in place for safeguarding the livestock against economically important diseases.

Forecasting is the scientific process of predicting future events based on historical data and current conditions, using statistical models or machine learning. It is essential for risk mitigation, resource optimization, strategic planning, and economic efficiency across various sectors. In livestock, forecasting aids in disease prediction and prevention, efficient resource allocation, and minimizing economic losses due to disease outbreaks. It also supports climate adaptation and informs policy formulation, ensuring better management of animal health and enhancing the sustainability of the livestock sector.

India has achieved significant success in the eradication of diseases like Rinderpest (RP), CBPP, AHS, and Dourine. However, several other infectious and non-infectious diseases continue to cause substantial annual economic losses. Effective prevention, control, and eradication of these diseases require a deep understanding of their epidemiology and economic impact. The National Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI) has the mandate to conduct research in veterinary epidemiology and disease informatics. India's success in eradicating RP demonstrates the country's capacity to overcome challenges, and similar efforts are essential to control and eradicate diseases such as FMD, PPR, Brucellosis, CSF, and HS, which impose significant economic burdens on the livestock industry.

To address this, ICAR-NIVEDI has identified 15 priority livestock diseases based on historical incidence patterns and has developed a comprehensive database for these diseases. ICAR-NIVEDI has also created NADRES v2, an early warning system powered by Artificial Intelligence (AI), which integrates diverse datasets to forecast livestock disease risks. This system allows stakeholders, including livestock populations, farmers, and organizations, to prepare and respond promptly, minimizing the occurrence of disease outbreaks. The system combines historical disease data, livestock population figures from the 20th Livestock Census (2019), and meteorological and remotely sensed data, including 23 risk parameters like temperature, precipitation, humidity, wind velocity, and soil moisture. This data is sourced from global providers, including NASA's NCEP, CRU, and MODIS satellites. NADRES v2 utilizes 18 machine learning models trained on outbreak data, with rigorous evaluation using 11 performance metrics: Receiver Operating Characteristic (ROC), Cohen's Kappa, True Skill Statistic (TSS), Precision, Accuracy, Error Rate, Sensitivity, Specificity, F1 Score, Log Loss, and Gini Coefficient. Risk predictions are expressed as probabilities (0-1) and categorized into six levels: Very High Risk, High Risk, Moderate Risk, Low Risk, Very Low Risk, and No Risk. These forecasts provide district-level risk assessments for livestock diseases across 755 districts in India, with predictions made two months in advance.

This forewarning is compiled into a bulletin that alerts animal husbandry departments at both the national and state levels, prompting appropriate control measures. The forewarning bulletin serves as a valuable tool for field veterinarians, helping them implement preventive and control measures that reduce the occurrence of livestock disease outbreaks.

The detailed methodology for forewarning of livestock diseases is available at this link

https://www.nivedi.res.in/Nadres_v2/pdf/nadres_bulletin/2025/January%202025_Llivestock%20Disease%20Risk%20Forewarning%20Methodology_Prediction@March_2025.pdf

2. LIVESTOCK DISEASE RISK FOREWARNING FOR INDIA FOR THE MONTH OF MARCH 2025

The livestock disease risk forewarning of **January 2025** predicts that **736** districts across India will face high to very high disease risks in **March 2025**. Jharkhand (185 districts), Uttar Pradesh (96 districts), Karnataka (71 districts), Assam (62 districts), and Kerala (49 districts) are the top five states projected to experience significant outbreaks. The most anticipated diseases include Babesiosis (112 predicted outbreaks), PPR (85 outbreaks), Theileriosis (80 outbreaks), and FMD (71 outbreaks). In addition, Jharkhand, Karnataka, Assam, Haryana, Kerala, Maharashtra, Puducherry, Andhra Pradesh, and West Bengal are expected to witness outbreaks of PPR, FMD, S&G Pox, Black Quarter, and Fasciolosis. These findings underscore the need for targeted preventive measures in the most vulnerable regions. The predicted disease outbreaks, systematically categorized and visualized by disease (Fig. 1) and by state (Fig. 2), are presented below.

These diseases represent a significant threat to livestock health, with potential implications for animal productivity, welfare, and regional economies. To mitigate the anticipated risks, a comprehensive disease management strategy is required, incorporating enhanced epidemiological surveillance, targeted vaccination programs, and robust biosecurity measures. Timely and scientifically guided interventions will be critical to minimizing the economic and zoonotic impacts of these livestock diseases across affected regions.

I. Total Number of Diseases Predicted with High-Risk Level

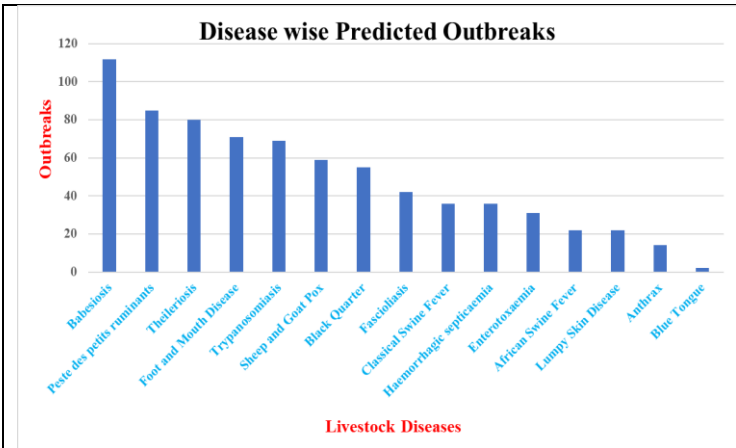


Fig. 1 Predicted Outbreaks of 15 Livestock Diseases Risk for the month of March 2025

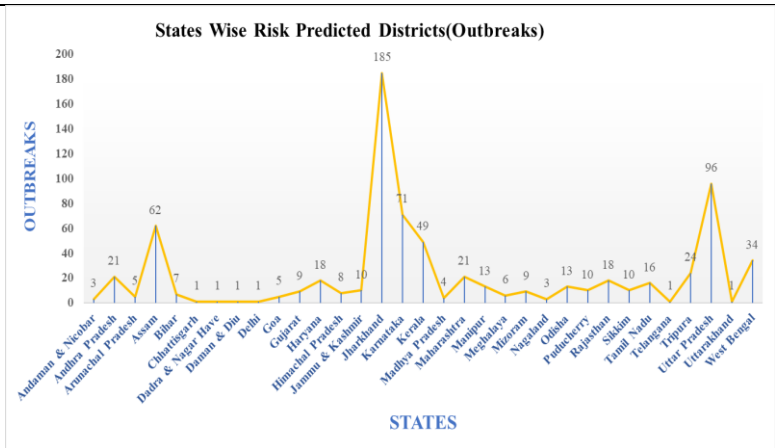


Fig. 2 State-wise Predicted Livestock Disease Risk Outbreaks for the month of March 2025

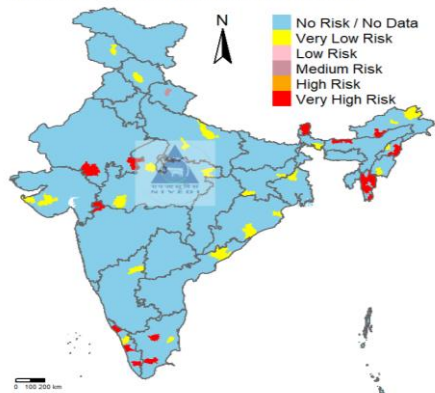
II. Total number of diseases predicted for different States of India with High-level risk for the month of March 2025

Sl. No.	State Name	Livestock Diseases															districts predicted for Total number of risks of disease
		ASF	Anthrax	Babesiosis	BQ	BT	CSF	ET	Fascioliasis	FMD	HS	LSD	PPR	S&G Pox	Theileriosis	Trypanosomiasis	
1	Andaman & Nicobar	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
2	Andhra Pradesh	0	4	3	1	2	2	1	1	0	1	1	3	1	1	0	21
3	Arunachal Pradesh	1	0	0	0	0	2	0	0	1	0	0	0	1	0	0	5
4	Assam	2	0	12	14	0	4	7	0	2	4	7	9	0	1	0	62
5	Bihar	0	0	2	1	0	1	0	0	0	0	1	0	0	0	2	7
6	Chhattisgarh	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7	Dadra & Nagar Have	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
8	Daman & Diu	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
9	Delhi	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
10	Goa	0	0	2	0	0	0	0	0	1	1	0	0	0	1	0	5
11	Gujarat	0	0	0	1	0	0	0	1	3	0	0	1	2	0	1	9
12	Haryana	0	0	0	1	0	2	2	0	1	2	0	4	0	4	2	18
13	Himachal Pradesh	0	0	1	1	0	0	0	0	3	0	0	2	1	0	0	8
14	Jammu & Kashmir	0	0	3	0	0	0	0	0	0	0	0	0	7	0	0	10
15	Jharkhand	0	0	24	7	0	10	13	24	19	9	4	19	8	24	24	185
16	Karnataka	0	6	0	9	0	0	2	0	14	4	2	14	20	0	0	71
17	Kerala	3	0	13	0	0	2	0	0	4	2	7	5	0	13	0	49
18	Madhya Pradesh	0	0	0	0	0	0	0	0	1	2	0	1	0	0	0	4
19	Maharashtra	1	0	0	2	0	0	1	0	2	2	0	7	3	3	0	21
20	Manipur	0	0	1	2	0	1	1	6	0	0	0	0	2	0	0	13
21	Meghalaya	0	0	0	1	0	2	0	0	3	0	0	0	0	0	0	6
22	Mizoram	5	0	0	0	0	4	0	0	0	0	0	0	0	0	0	9
23	Nagaland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
24	Odisha	0	0	0	2	0	0	0	0	3	2	0	4	0	2	0	13
25	Puducherry	0	0	3	0	0	0	1	1	1	1	0	1	1	1	0	10
26	Rajasthan	2	0	3	1	0	1	3	1	1	1	0	4	0	0	1	18
27	Sikkim	3	0	2	0	0	3	0	0	1	0	0	0	0	1	0	10
28	Tamil Nadu	2	4	0	2	0	0	0	0	1	0	0	1	6	0	0	16
29	Telangana	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
30	Tripura	0	0	4	2	0	2	0	5	3	2	0	1	5	0	0	24
31	Uttar Pradesh	0	0	33	0	0	0	0	0	2	0	0	1	0	22	38	96
32	Uttarakhand	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
33	West Bengal	0	0	5	7	0	0	0	0	3	3	0	7	1	7	1	34
Total number of districts likely for risk of disease		22	14	112	55	2	36	31	42	71	36	22	85	59	80	69	736

III. Spatial distribution of district level livestock disease forewarning for selected diseases

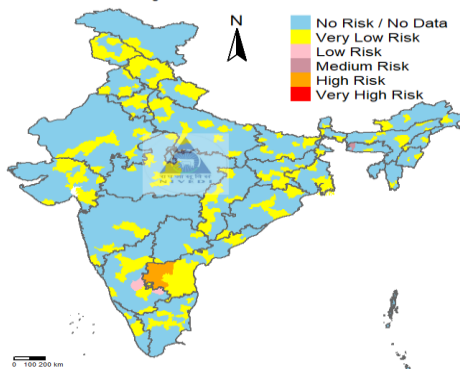
A) Viral Disease Forewarning Maps

Risk Prediction of African Swine Fever for the month of March 2025



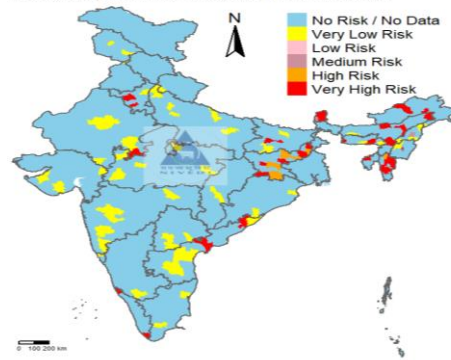
African Swine Fever

Risk Prediction of Bluetongue for the month of March 2025



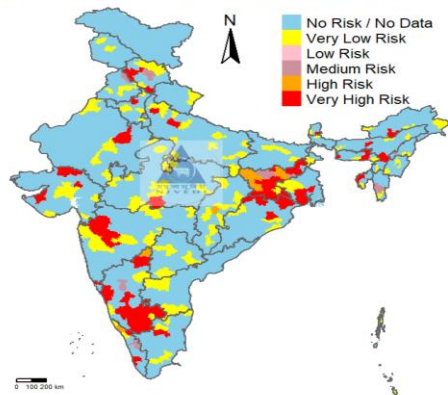
Bluetongue

Risk Prediction of Classical Swine fever for the month of March 2025



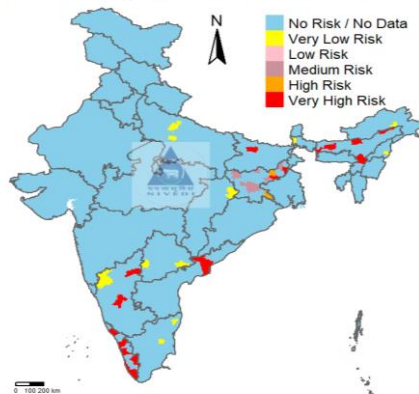
Classical Swine fever

Risk Prediction of Foot and mouth disease for the month of March 2025



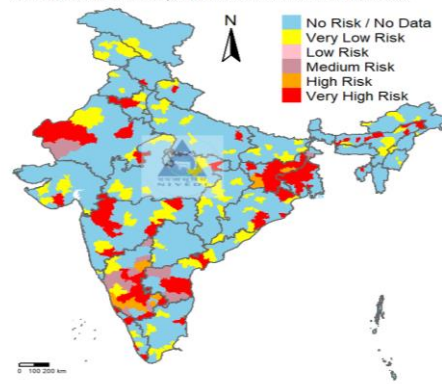
Foot and Mouth Disease

Risk Prediction of Lumpy Skin Diseases for the month of March 2025



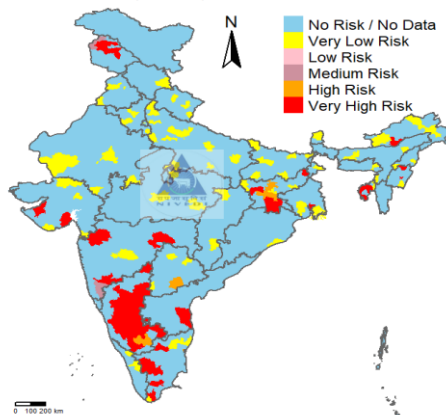
Lumpy Skin Disease

Risk Prediction of Peste des petits ruminants for the month of March 2025



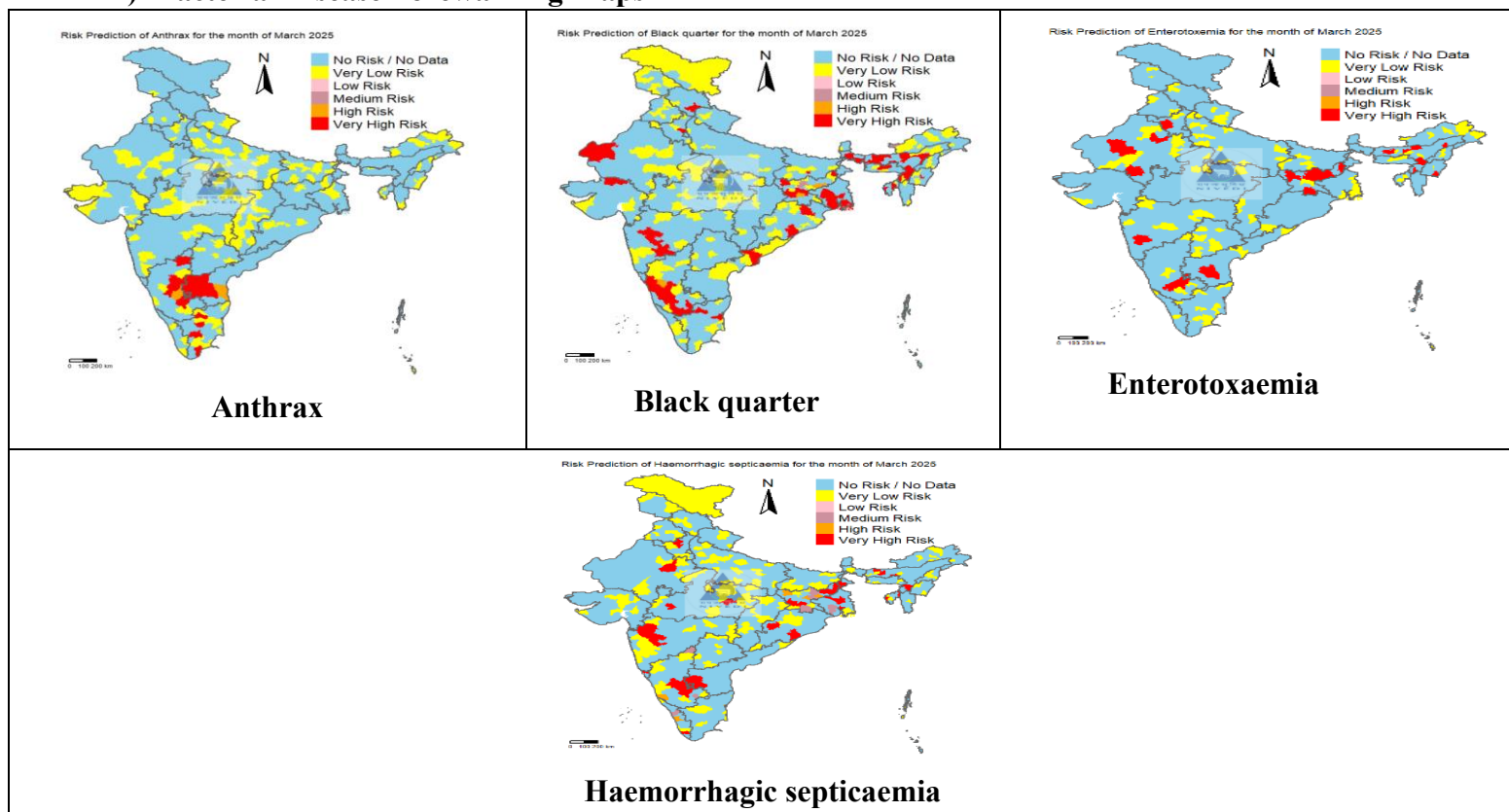
Peste des petits ruminants

Risk Prediction of Sheep and Goat pox for the month of March 2025

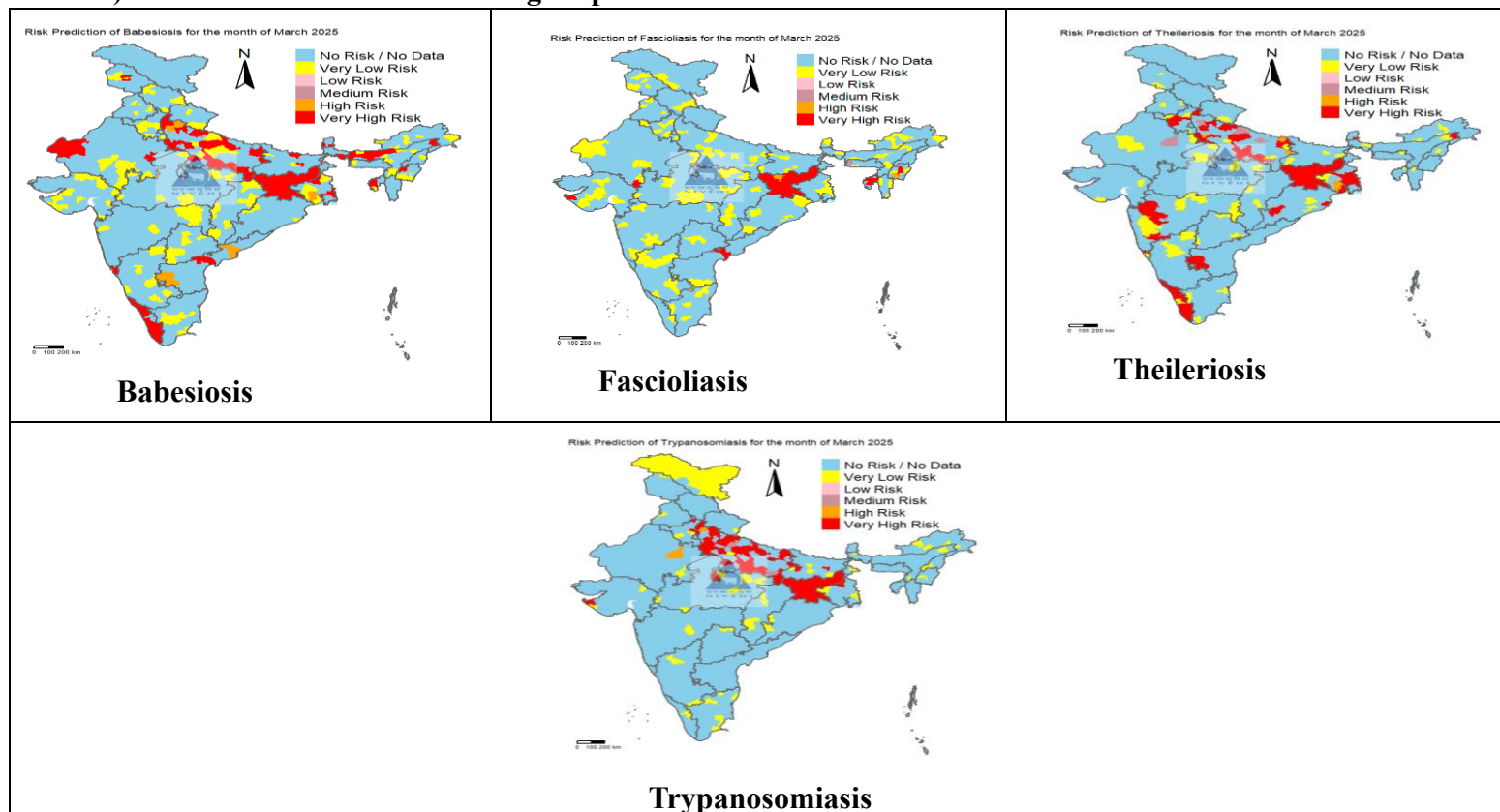


Sheep and Goat Pox

B) Bacterial Disease Forewarning Maps



C) Parasitic Disease Forewarning maps



IV. Risk Mitigation/Risk Communication Strategies

1. Vaccination Drives

- Conduct ring vaccination campaigns within an 8 km radius in affected areas using suitable vaccines for specific diseases.
- Administer primary vaccinations at the recommended age, followed by booster doses annually or as advised.
- Vaccinate animals in endemic zones to prevent outbreaks, ensuring age-appropriate and serotype-specific vaccinations.

2. Disease Surveillance

- Implement regular monitoring and reporting of unusual mortality or symptoms in livestock.
- Enforce strict biosecurity protocols, including controlled farm access, equipment disinfection, and quarantine for newly introduced animals.
- Control vector populations through integrated management practices, including tick control, fly-proof shelters, and molluscicide use in snail-infested areas.

3. Awareness Programs

- Educate farmers on proper disposal methods for infected carcasses, such as incineration or deep burial with lime.
- Raise awareness about avoiding high-risk practices, such as feeding swill to pigs or grazing in infected or waterlogged areas.
- Promote hygiene and sanitation measures, including disinfection of contaminated areas and restrictions on animal movement in and out of affected zones.

4. Capacity-Building and Training Programs

- Conduct workshops and training sessions for veterinarians, farmers, and animal health workers on disease identification, prevention, and management techniques.
- Develop skill enhancement programs for using modern diagnostic tools and biosecurity measures effectively.
- Provide hands-on training on vaccination procedures, carcass disposal methods, and managing outbreaks to ensure timely and accurate responses.

3. DISTRICT WISE LIVESTOCK DISEASE RISK FOREWARNING FOR THE MONTH OF MARCH 2025

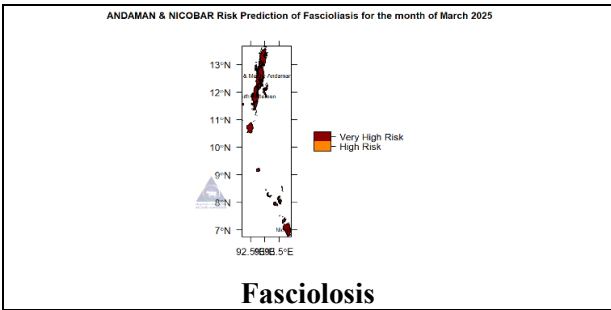
3.1. Andaman and Nicobar

The livestock disease forecast for **Andaman and Nicobar** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **1** major disease. Among these, Fasciolosis (3 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Andaman and Nicobar during March 2025

SL. No.	Disease Name	Number of districts predicted	Names of Districts
1	Fasciolosis	Three	Nicobars, North & Middle Andaman and South Andaman

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Andaman and Nicobar



III. District-Wise Risk Assessment for Livestock Disease Forewarning for the month of March 2025 for Andaman and Nicobar

Districts of Andaman and Nicobar	Livestock Diseases	
	Fasciolosis	Total No of Disease Risk per District
Nicobars	VHR	1
North & Middle Andaman	VHR	1
South Andaman	VHR	1
Total No of District at Disease Risk	3	3

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk Communication Strategies

Ensure 100% vaccination coverage for Fasciolosis in VHR districts with timely booster doses, implement active surveillance and routine testing in VHR districts for early outbreak detection, and conduct farmer training on disease management and biosecurity measures.

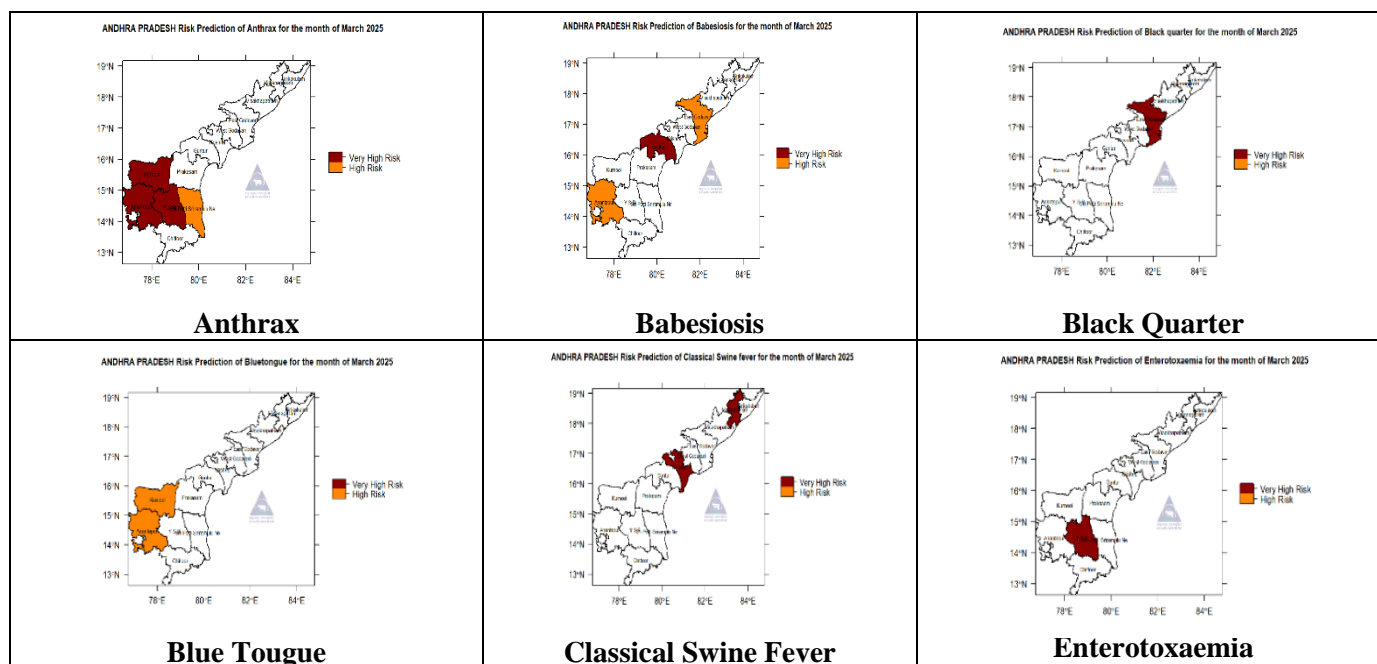
3.2. Andhra Pradesh

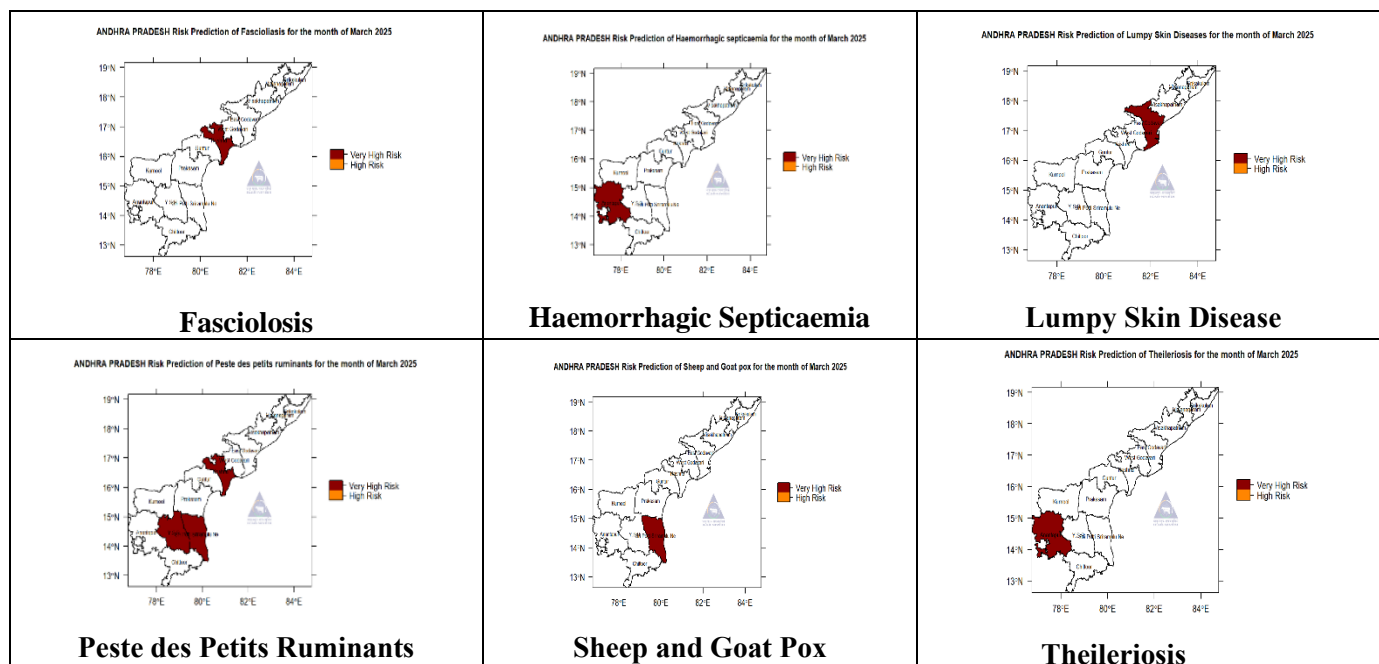
The livestock disease forecast for **Andhra Pradesh** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **12** major diseases. Among these, Anthrax (4 districts), Babesiosis (3 districts) and Peste des Petits Ruminants (3 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Andhra Pradesh during March 2025

SI. No.	Disease Name	Number of districts predicted	Names of Districts
1	Anthrax	Four	Anantapur, Kurnool, Sri Potti Sriramulu Nellore and Y.S.R.
2	Babesiosis	Three	Anantapur, East Godavari and Guntur
3	Black Quarter	One	East Godavari
4	Blue Tongue	Two	Anantapur and Kurnool
5	Classical Swine Fever	Two	Krishna and Vizianagaram
6	Enterotoxaemia	One	Y.S.R.
7	Fasciolosis	One	Krishna
8	Haemorrhagic Septicaemia	One	Anantapur
9	Lumpy Skin Disease	One	East Godavari
10	Peste des Petits Ruminants	Three	Krishna, Sri Potti Sriramulu Nellore and Y.S.R.
11	Sheep and Goat Pox	One	Sri Potti Sriramulu Nellore
12	Theileriosis	One	Anantapur

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Andhra Pradesh





III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Andhra Pradesh

Districts of Andhra Pradesh	Livestock Diseases												
	Anthrax	Babesiosis	BQ	BT	CSF	ET	Fasciolosis	HS	LSD	PPR	S&G Pox	Theileriosis	Total No of Disease Risk per District
Anantapur	<i>VHR</i>	<i>HR</i>	-	<i>HR</i>	-	-	-	<i>VHR</i>	-	-	-	<i>VHR</i>	5
East Godavari	-	<i>HR</i>	<i>VHR</i>	-	-	-	-	-	<i>VHR</i>	-	-	-	3
Guntur	-	<i>VHR</i>	-	-	-	-	-	-	-	-	-	-	1
Krishna	-	-	-	-	<i>VHR</i>	-	<i>VHR</i>	-	-	<i>VHR</i>	-	-	3
Kurnool	<i>VHR</i>	-	-	<i>HR</i>	-	-	-	-	-	-	-	-	2
Sri Potti Sriramulu Nellore	<i>HR</i>	-	-	-	-	-	-	-	-	<i>VHR</i>	<i>VHR</i>	-	3
Vizianagaram	-	-	-	-	<i>VHR</i>	-	-	-	-	-	-	-	1
Y.S.R.	<i>VHR</i>	-	-	-	-	<i>VHR</i>	-	-	-	<i>VHR</i>	-	-	3
Total No of District at Disease Risk	4	3	1	2	2	1	1	1	1	3	1	1	21

If vaccinated, please ignore the disease forecast

Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination coverage for Anthrax, Babesiosis, and PPR in VHR districts with scheduled booster doses, and implement active surveillance, routine testing, farmer training, and biosecurity measures to manage and prevent disease outbreaks.

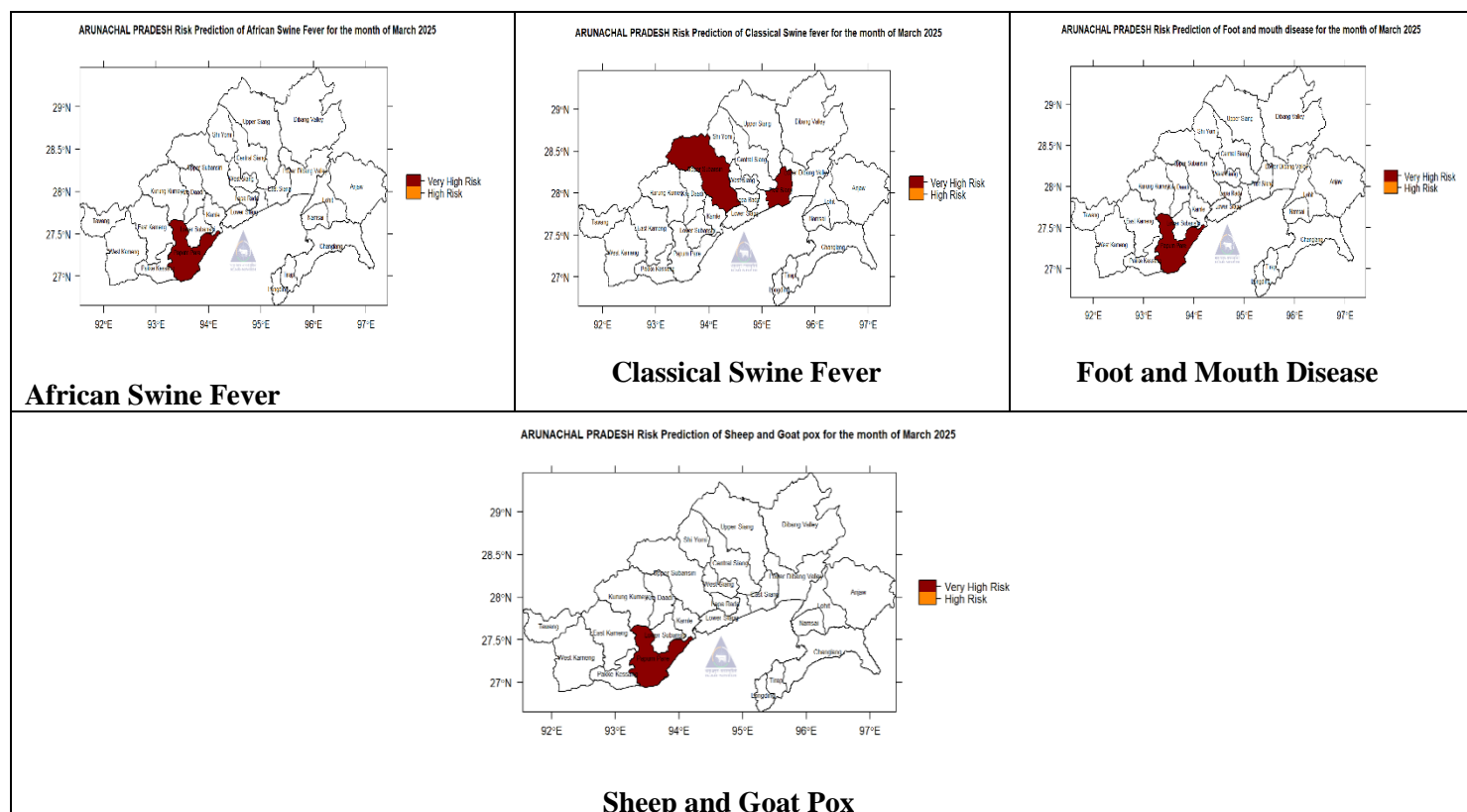
2.3. Arunachal Pradesh

The livestock disease forecast for **Arunachal Pradesh** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **4** major diseases. Among these, Classical Swine Fever (2 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Arunachal Pradesh during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	One	Papum Pare
2	Classical Swine Fever	Two	East Siang and Upper Subansiri
3	Foot and Mouth Disease	One	Papum Pare
4	Sheep & Goat Pox	One	Papum Pare

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Arunachal Pradesh



III. District-Wise Risk Assessment for Livestock Disease Forewarning for the month of March 2025 for Arunachal Pradesh

Districts of Arunachal Pradesh	Livestock Diseases				
	ASF	CSF	FMD	S&G Pox	Total No of Disease Risk per District
East Siang	-	<i>VHR</i>	-	-	1
Papum Pare	<i>VHR</i>	-	<i>VHR</i>	<i>VHR</i>	3
Upper Subansiri	-	<i>VHR</i>	-	-	1
Total No of District at Disease Risk	1	2	1	1	5

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for CSF, ASF and FMD in VHR districts with scheduled boosters, conduct active surveillance and routine testing in VHR districts, and train farmers on disease management and biosecurity to prevent outbreaks.

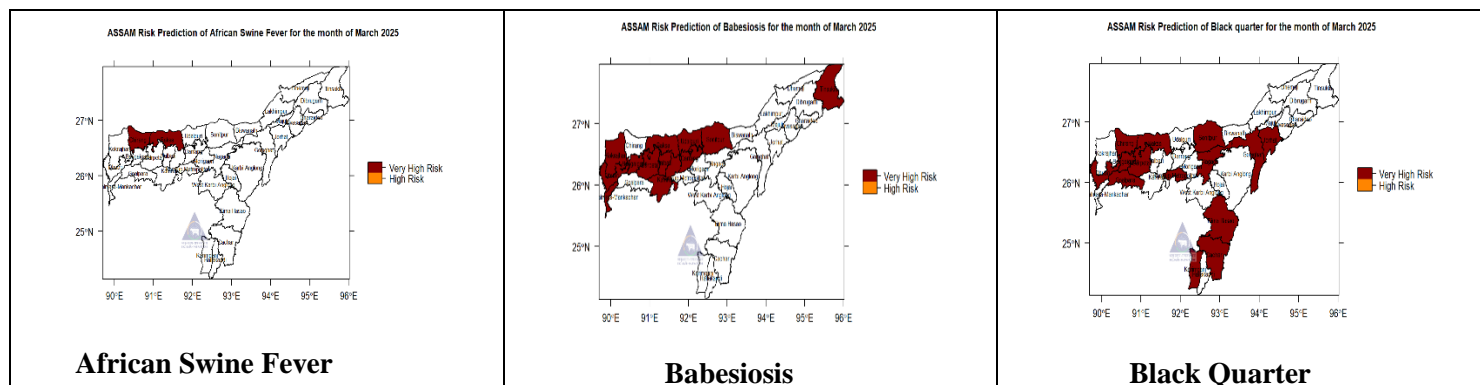
3.4. Assam

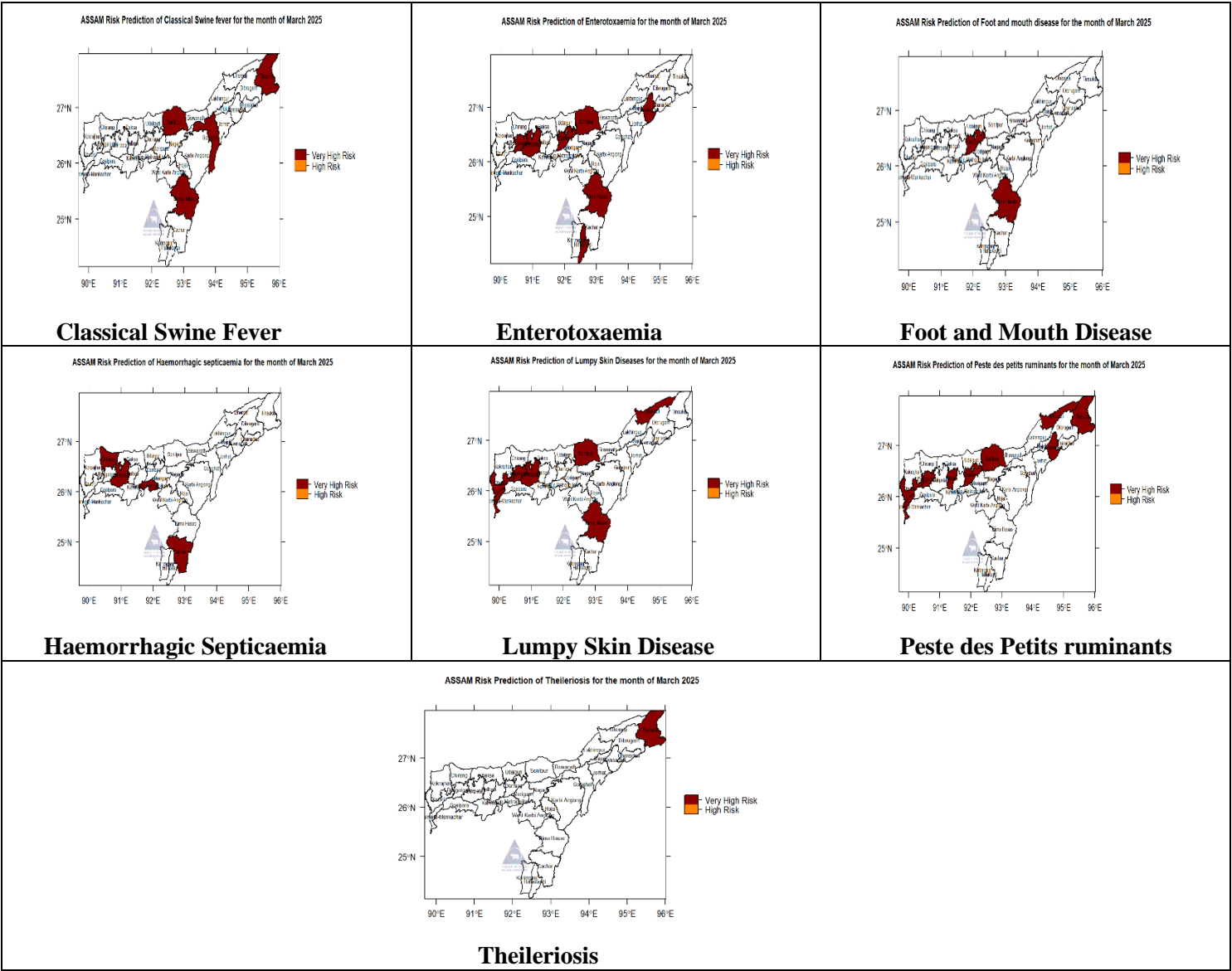
The livestock disease forecast for **Assam** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **10** major diseases. Among these, Babesiosis (12 districts), Black Quarter (14 districts), Enterotoxaemia (7 districts), Lumpy Skin Disease (7 districts) and Peste des Petits Ruminants (9 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Assam during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	Two	Baksa and Chirang
2	Babesiosis	Twelve	Baksa, Barpeta, Bongaigaon, Darrang, Dhubri, Kamrup, Kokrajhar, Nalbari, Sonitpur, South Salmara-Mankachar, Tinsukia and Udalguri
3	Black Quarter	Fourteen	Baksa, Barpeta, Bongaigaon, Cachar, Chirang, Dhubri, Dima Hasao, Goalpara, Golaghat, Jorhat, Kamrup Metropolitan, Karimganj, Nagaon and Sonitpur
4	Classical Swine Fever	Four	Dima Hasao, Golaghat, Sonitpur and Tinsukia
5	Enterotoxaemia	Seven	Barpeta, Bongaigaon, Darrang, Dima Hasao, Hailakandi, Sivasagar and Sonitpur
6	Foot and Mouth Disease	Two	Darrang and Dima Hasao
7	Haemorrhagic Septicaemia	Four	Barpeta, Cachar, Chirang and Kamrup Metropolitan
8	Lumpy Skin Diseases	Seven	Barpeta, Bongaigaon, Dhemaji, Dhubri, Dima Hasao, Sonitpur and South Salmara-Mankachar
9	Peste des Petits Ruminants	Nine	Bongaigaon, Darrang, Dhemaji, Dhubri, Nalbari, Sivasagar, Sonitpur, South Salmara-Mankachar and Tinsukia
10	Theileriosis	One	Tinsukia

II. Disease-Specific Risk Mapping: Predicted High and Very High Risk Levels in Different Districts of Assam





III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Assam

Districts of Assam	Livestock Diseases										
	ASF	Babesiosis	BQ	CSF	ET	FM D	HS	LSD	PPR	Theileriosis	Total No of Disease Risk per District
Baksa	VHR	VHR	VHR	-	-	-	-	-	-	-	3
Barpeta	-	VHR	VHR	-	VHR	-	VHR	VHR		-	5
Bongaigaon	-	VHR	VHR	-	VHR	-		VHR	VHR	-	5
Cachar	-	-	VHR	-	-	-	VHR	-	-	-	2
Chirang	VHR	-	VHR	-	-	-	VHR	-	-	-	3
Darrang	-	VHR	-	-	VHR	VHR	-	-	VHR	-	4
Dhemaji	-	-	-	-	-	-	-	VHR	VHR	-	2
Dhubri	-	VHR	VHR	-	-	-	-	VHR	VHR	-	4
Dima Hasao	-	-	VHR	VHR	VHR	VHR	-	VHR	-	-	5
Goalpara	-	-	VHR	-	-	-	-	-	-	-	1
Golaghat	-	-	VHR	VHR	-	-	-	-	-	-	2
Hailakandi	-	-	-	-	VHR	-	-	-	-	-	1
Jorhat	-	-	VHR	-	-	-	-	-	-	-	1
Kamrup	-	VHR	-	-	-	-	-	-	-	-	1
Kamrup Metropolitan	-	-	VHR	-	-	-	VHR	-	-	-	2
Karimganj	-	-	VHR	-	-	-	-	-	-	-	1
Kokrajhar	-	VHR	-	-	-	-	-	-	-	-	1
Nagaon	-	-	VHR	-	-	-	-	-	-	-	1
Nalbari	-	VHR	-	-	-	-	-	-	VHR	-	2
Sivasagar	-	-	-	-	VHR	-	-	-	VHR	-	2
Sonitpur	-	VHR	VHR	VHR	VHR	-	-	VHR	VHR	-	6
South Salmara-Mankachar	-	VHR	-	-	-	-	-	VHR	VHR	-	3
Tinsukia	-	VHR	-	VHR	-	-	-	-	VHR	VHR	4
Udalguri	-	VHR	-	-	-	-	-	-	-	-	1
Total No of District at Disease Risk	2	12	14	4	7	2	4	7	9	1	62

If vaccinated, please ignore the disease forecast

Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for Black quarter, Babesiosis, PPR and Enterotoxaemia in VHR districts with timely boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity to prevent outbreaks.

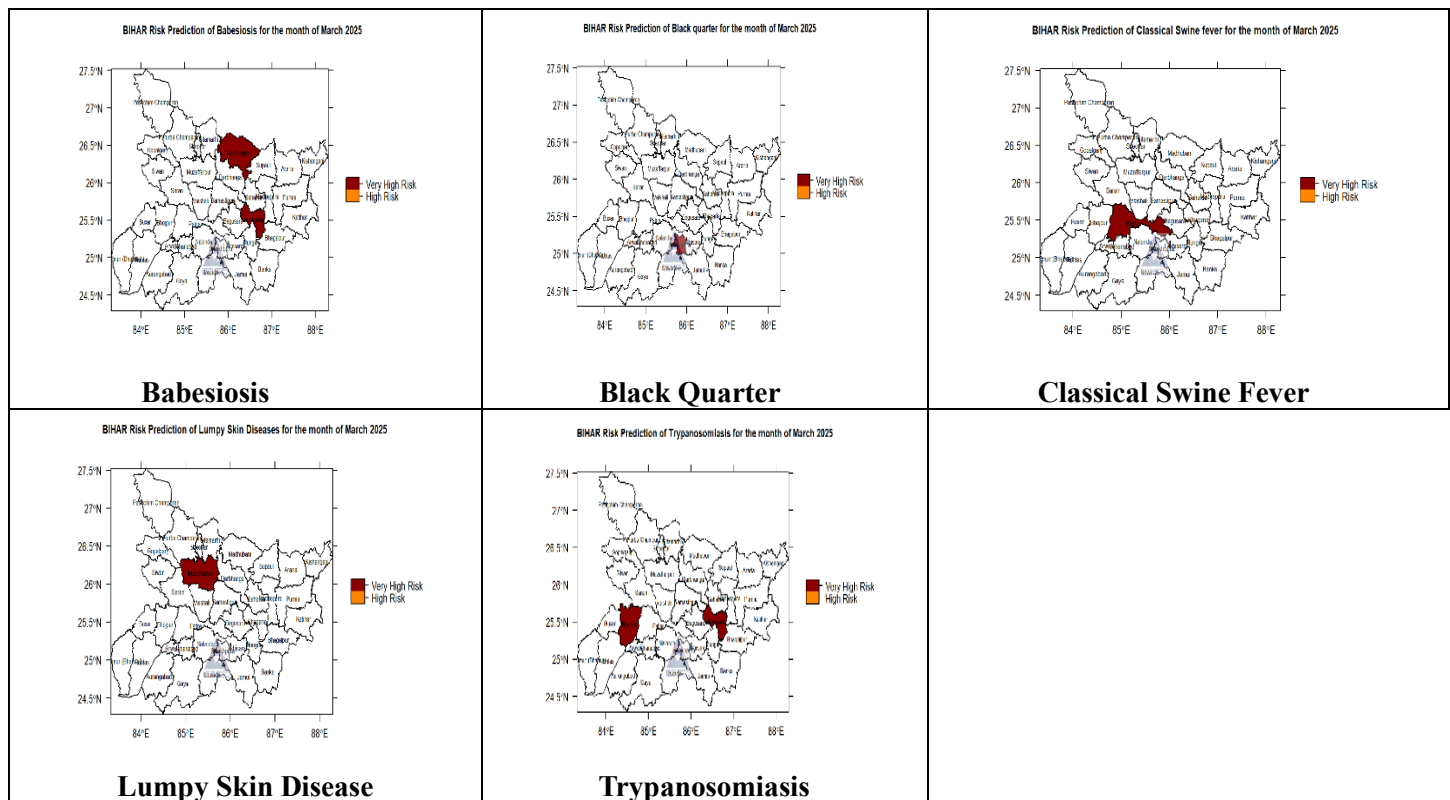
3.5. Bihar

The livestock disease forecast for **Bihar** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for 5 major diseases. Among these, Babesiosis (2 districts) and Trypanosomosis (2 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Bihar during March 2025

SL. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	Two	Khagaria and Madhubani
2	Black Quarter	One	Sheikhpura
3	Classical Swine Fever	One	Patna
4	Lumpy Skin Diseases	One	Muzaffarpur
5	Trypanosomiasis	Two	Bhojpur and Khagaria

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Bihar



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Bihar

Districts of Bihar	Livestock Diseases					
	Babesiosis	BQ	CSF	LSD	Trypanosomosis	Total No of Disease Risk per District
Bhojpur	-	-	-	-	<i>VHR</i>	1
Khagaria	<i>VHR</i>	-	-	-	<i>VHR</i>	2
Madhubani	<i>VHR</i>	-	-	-	-	1
Muzaffarpur	-	-		<i>VHR</i>	-	1
Patna	-	-	<i>VHR</i>	-	-	1
Sheikhpura	-	<i>VHR</i>	-	-	-	1
Total No of District at Disease Risk	2	1	1	1	2	7

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination coverage for Babesiosis, Trypanosomosis, Black Quarter, Classical Swine Fever and Lumpy Skin Diseases in VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity to prevent infections.

3.6. Chandigarh

The livestock disease forecast for **Chandigarh** for **March 2025** shows **no risk**. However, maintaining risk mitigation strategies such as routine disease surveillance for early detection, vaccination programs, and heightened biosecurity measures is recommended to ensure continued disease prevention.

I. Livestock Diseases with High Predicted Risk in Different Districts of Chandigarh during March 2025

No table

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Chandigarh

No Maps

III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Chandigarh

No disease table

IV. Risk Mitigation/Risk communication Strategies

No vaccination is required in districts of Chandigarh at this time.

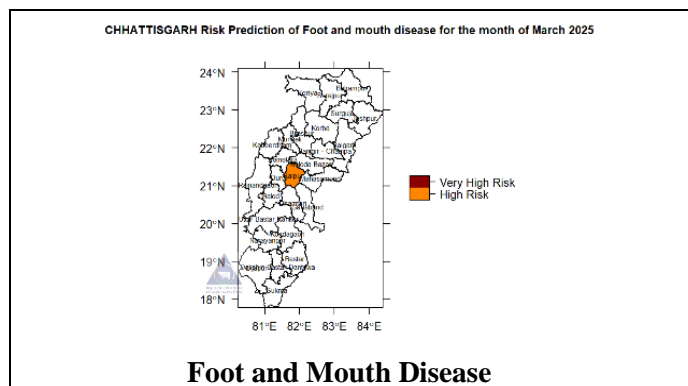
3.7. Chhattisgarh

The livestock disease forecast for **Chhattisgarh** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **1** major disease. Among these, Foot and Mouth Disease (1 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Chhattisgarh during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Foot and Mouth Disease	One	Raipur

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Chhattisgarh



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Chhattisgarh

Districts of Chhattisgarh	Livestock Diseases	
	FMD	Total No of Disease Risk per District
Raipur	<i>HR</i>	1
Total No of District at Disease Risk	1	1

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for FMD in HR districts with scheduled boosters, conduct active surveillance and testing in HR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

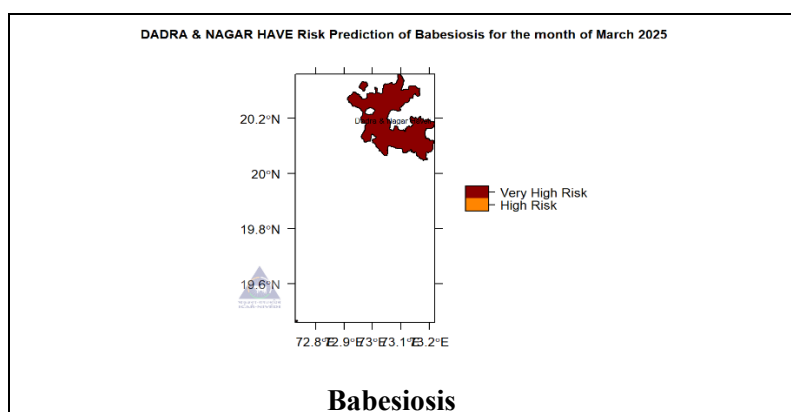
3.8. Dadra and Nagar Haveli

The livestock disease forecast for **Dadra and Nagar Haveli** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **1** major disease. Among these, Babesiosis (1 district) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Dadra and Nagar Haveli during March 2025

SI. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	One	Dadra & Nagar Haveli

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Dadra and Nagar Haveli



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Dadra and Nagar Haveli

Districts of Dadra & Nagar Haveli	Livestock Diseases	
	Babesiosis	Total No of Disease Risk per District
Dadra & Nagar Haveli	<i>VHR</i>	1
Total No of District at Disease Risk	1	1

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for Babesiosis in VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

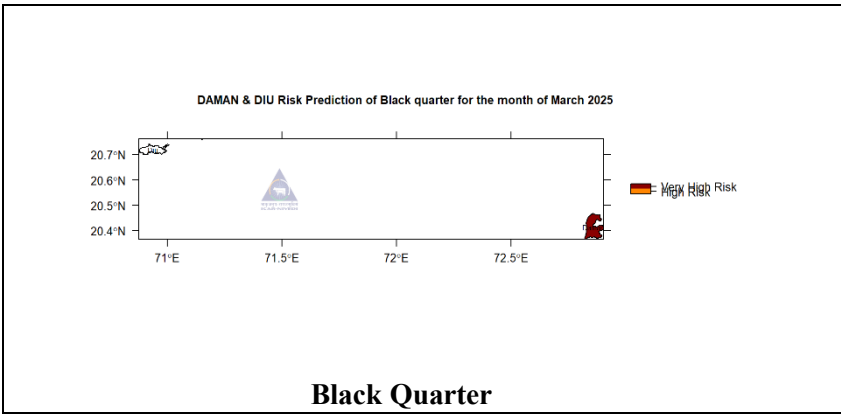
3.9. Daman and Diu

The livestock disease forecast for **Daman and Diu** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **1** major disease. Among these, Black Quarter (1 district) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Daman and Diu during March 2025

SI. No.	Disease Name	Number of districts predicted	Names of Districts
1	Black Quarter	One	Daman and Diu

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Daman and Diu



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Daman and Diu

Districts of Daman and Diu	Livestock Diseases	
	Black Quarter	Total No of Disease Risk per District
Daman and Diu	VHR	1
Total No of District at Disease Risk	1	1

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation Strategies

Ensure 100% vaccination for Black Quarter VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

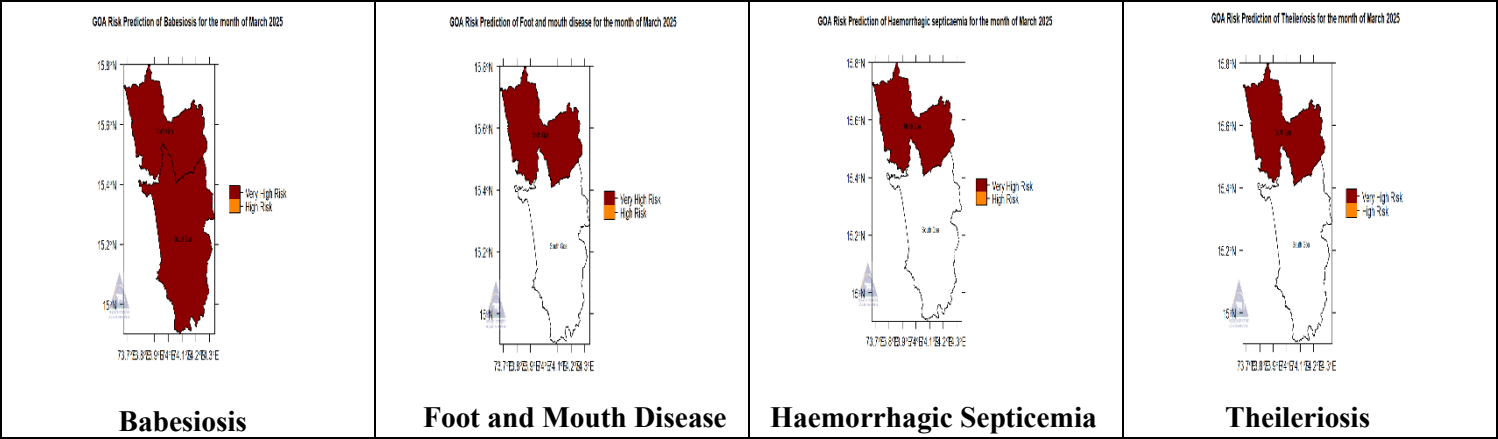
3.10. Goa

The livestock disease forecast for **Goa** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **4** major diseases. Among these, Babesiosis (2 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Goa during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	Two	North Goa and South Goa
2	Foot and Mouth Disease	One	North Goa
3	Haemorrhagic Septicemia	One	North Goa
4	Theileriosis	One	North Goa

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Goa



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Goa

Districts of Goa	Livestock Diseases				
	Babesiosis	FMD	HS	Theileriosis	Total No of Disease Risk per District
North Goa	VHR	VHR	VHR	VHR	4
South Goa	VHR	-	-	-	1
Total No of District at Disease Risk	2	1	1	1	5

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

I. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for Babesiosis, FMD, HS and Theileriosis in VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

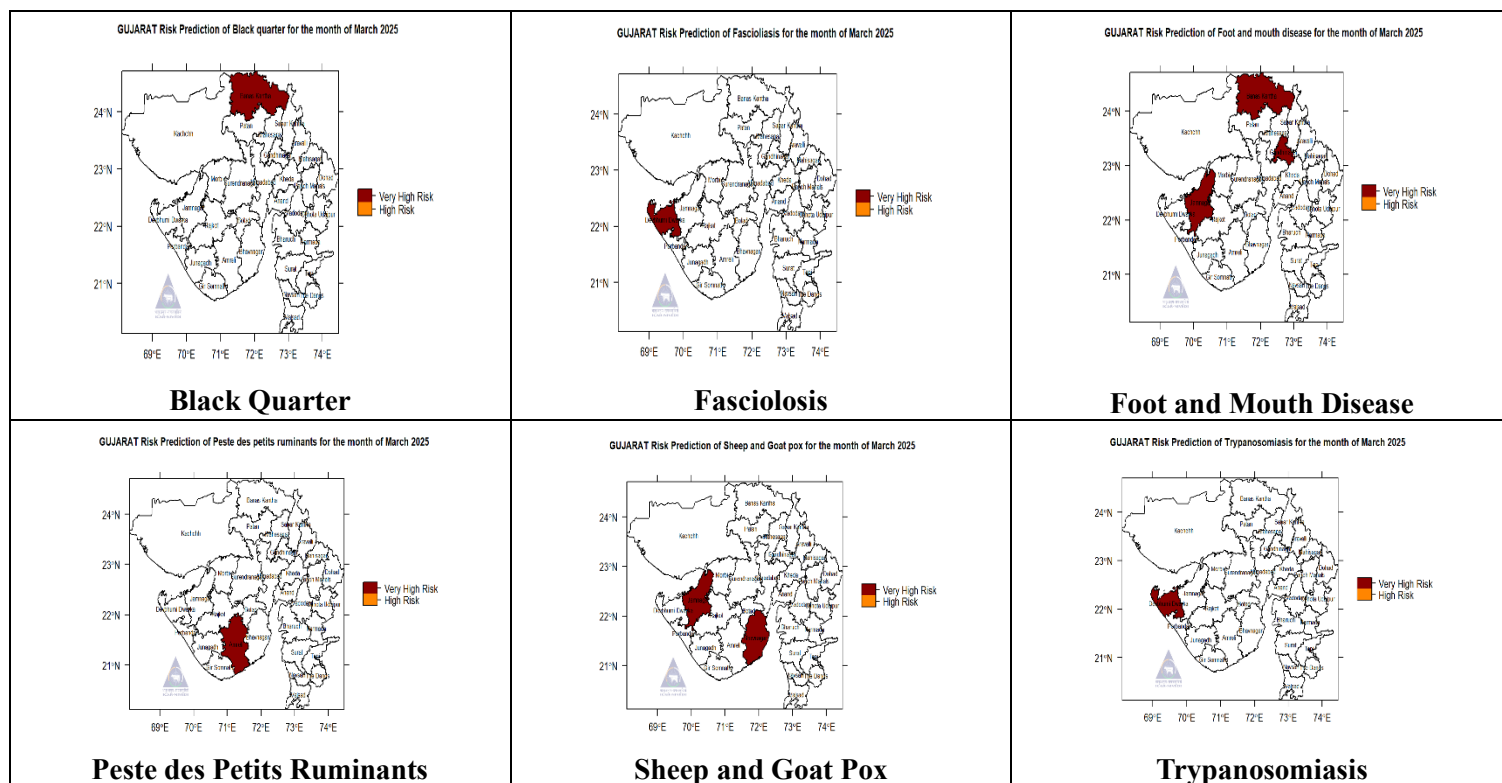
3.11. Gujarat

The livestock disease forecast for **Gujarat** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **6** major diseases. Among these, Foot and Mouth Disease (3 districts) and Sheep and Goat Pox (2 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Disease with High Predicted Risk in Different Districts of Gujarat during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Black Quarter	One	Banas Kantha
2	Fasciolosis	One	Devbhumi Dwarka
3	Foot and Mouth Disease	Three	Banas Kantha, Gandhinagar and Jamnagar
4	Peste des Petits Ruminants	One	Amreli
5	Sheep & Goat Pox	Two	Bhavnagar and Jamnagar
6	Trypanosomiasis	One	Devbhumi Dwarka

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Gujarat



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Gujarat

Districts of Gujarat	Livestock Diseases						
	BQ	Fasciolosis	FMD	PPR	S&G Pox	Trypanosomosis	Total No of district risk per district
Amreli	-	-	-	<i>VHR</i>	-	-	1
Banas Kantha	<i>VHR</i>	-	<i>VHR</i>	-	-	-	2
Bhavnagar	-	-	-	-	<i>VHR</i>	-	1
Devbhumi Dwarka	-	<i>VHR</i>	-	-	-	<i>VHR</i>	2
Gandhinagar	-	-	<i>VHR</i>	-	-	-	1
Jamnagar	-	-	<i>VHR</i>	-	<i>VHR</i>	-	2
Total No of District at Disease Risk	1	1	3	1	2	1	9

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for FMD, Sheep & Goat Pox, Black quarter, Fasciolosis, PPR and Trypanosomosis in VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

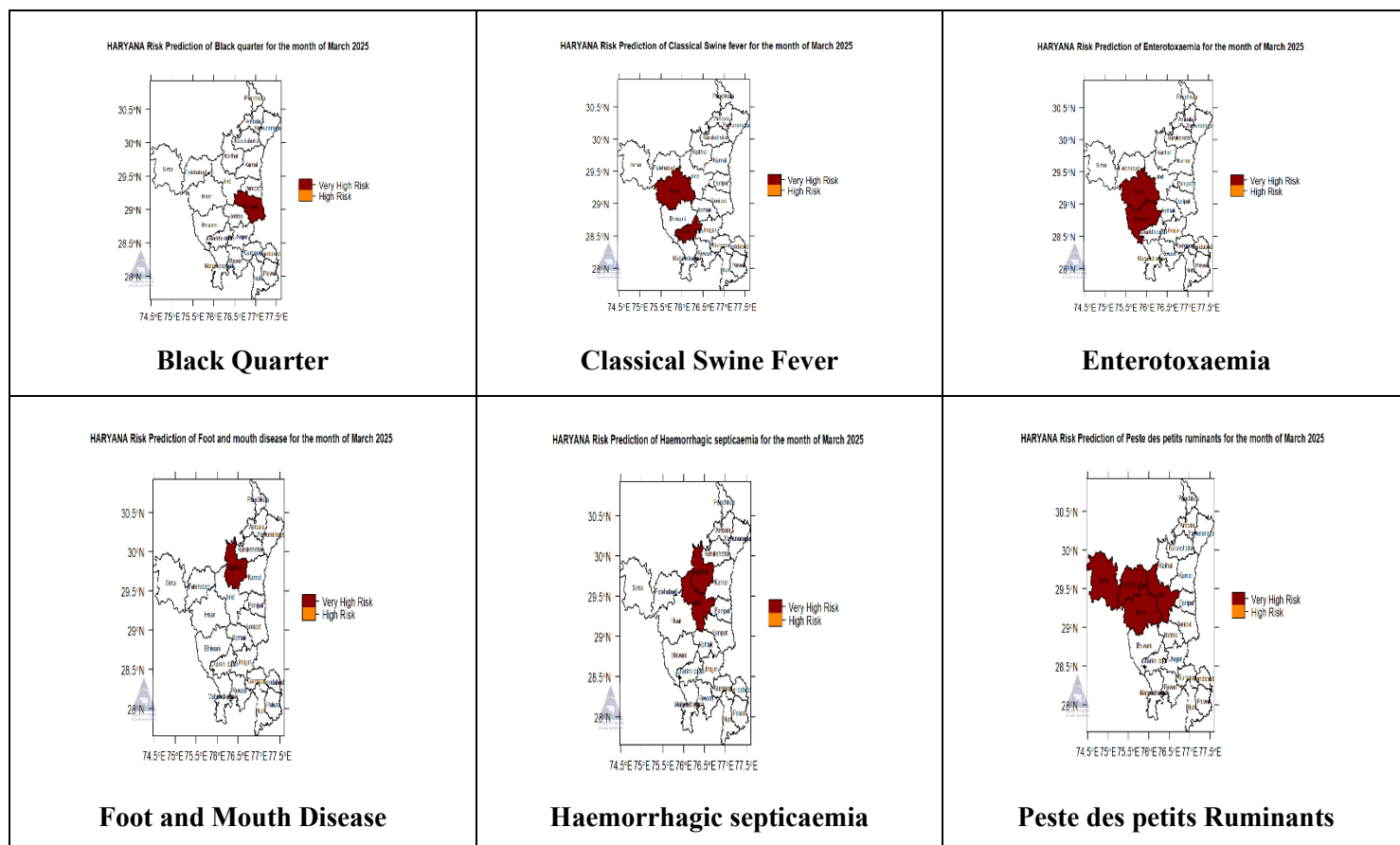
3.12. Haryana

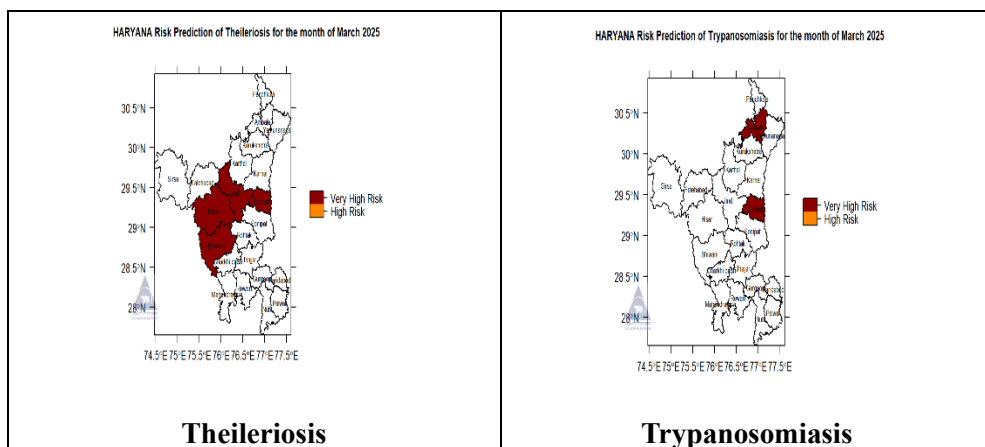
The livestock disease forecast for **Haryana** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **8** major diseases. Among these, Peste des Petits Ruminants (4 districts) and Theileriosis (4 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Haryana during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Black Quarter	One	Sonipat
2	Classical Swine Fever	Two	Charkhi dadri and Hisar
3	Enterotoxaemia	Two	Bhiwani and Hisar
4	Foot and Mouth Disease	One	Kaithal
5	Haemorrhagic Septicaemia	Two	Jind and Kaithal
6	Peste des Petits Ruminants	Four	Fatehabad, Hisar, Jind and Sirsa
7	Theileriosis	Four	Bhiwani, Hisar, Jind and Panipat
8	Trypanosomiasis	Two	Ambala and Panipat

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Haryana





III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Haryana

Districts of Haryana	Livestock Diseases								Total No of district risk per district
	BQ	CSF	ET	FMD	HS	PPR	Theileriosis	Trypanosomosis	
Ambala	-	-	-	-	-	-	-	<i>VHR</i>	1
Bhiwani	-	-	<i>VHR</i>	-	-	-	<i>VHR</i>	-	2
Charkhi dadri	-	<i>VHR</i>	-	-	-	-	-	-	1
Fatehabad	-	-	-	-	-	<i>VHR</i>	-	-	1
Hisar	-	<i>VHR</i>	<i>VHR</i>	-	-	<i>VHR</i>	<i>VHR</i>	-	4
Jind	-	-	-	-	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	-	3
Kaithal	-	-	-	<i>VHR</i>	<i>VHR</i>	-	-	-	2
Panipat	-	-	-	-	-	-	<i>VHR</i>	<i>VHR</i>	2
Sirsa	-	-	-	-	-	<i>VHR</i>	-	-	1
Sonipat	<i>VHR</i>	-	-	-	-	-	-	-	1
Total No of district at disease risk	1	2	2	1	2	4	4	2	18

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for PPR and Theileriosis in VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

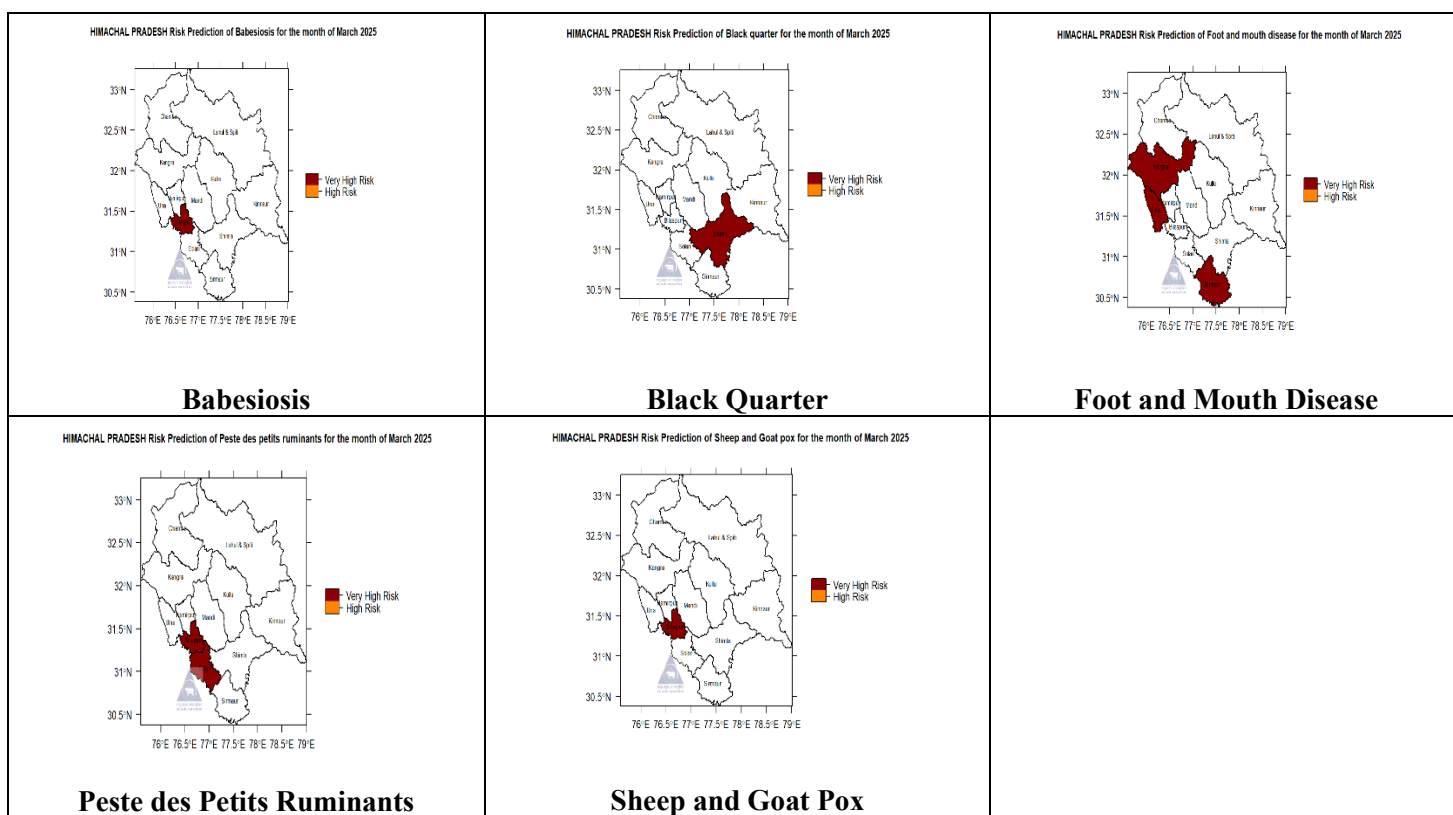
3.13. Himachal Pradesh

The livestock disease forecast for **Himachal Pradesh** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **5** major diseases. Among these, Foot and Mouth Disease (3 districts), and Peste des Petits Ruminants (2 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Himachal Pradesh during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	One	Bilaspur
2	Black Quarter	One	Shimla
3	Foot and Mouth Disease	Three	Kangra, Sirmaur and Una
4	Peste des Petits Ruminants	Two	Bilaspur and Solan
5	Sheep & Goat Pox	One	Bilaspur

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Himachal Pradesh



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Himachal Pradesh

Districts of Himachal Pradesh	Livestock Diseases					
	Babesiosis	BQ	FMD	PPR	S&G Pox	Total No of district risk per district
Bilaspur	<i>VHR</i>	-	-	<i>VHR</i>	<i>VHR</i>	3
Kangra	-	-	<i>VHR</i>	-	-	1
Shimla	-	<i>VHR</i>	-	-	-	1
Sirmaur	-	-	<i>VHR</i>	-	-	1
Solan	-	-	-	<i>VHR</i>	-	1
Una	-	-	<i>VHR</i>	-	-	1
Total No of district at disease risk	1	1	3	2	1	8

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation Strategies

Ensure 100% vaccination for FMD, PPR, Babesiosis, Black quarter and Sheep & Goat pox in VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

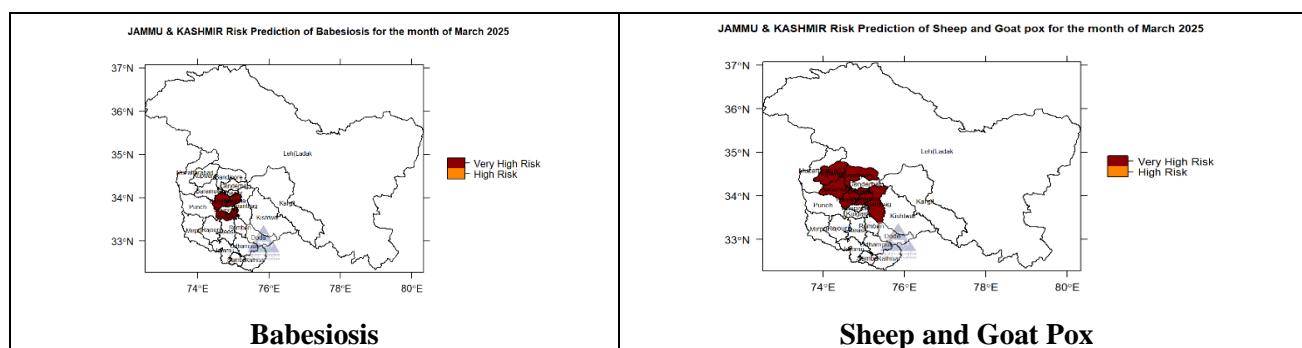
3.14. Jammu and Kashmir

The livestock disease forecast for **Jammu and Kashmir** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **2** major diseases. Among these, Sheep and Goat Pox (7 districts) and Babesiosis (3 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Jammu and Kashmir during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	Three	Badgam, Kulgam and Pulwama
2	Sheep & Goat pox	Seven	Anantnag, Badgam, Bandipore, Baramula, Kupwara, Pulwama and Srinagar

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Jammu and Kashmir



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Jammu and Kashmir

Districts of Jammu & Kashmir	Livestock Diseases		
	Babesiosis	S&G Pox	Total No of Disease Risk per District
Anantnag	-	VHR	1
Badgam	VHR	VHR	2
Bandipore	-	VHR	1
Baramula	-	VHR	1
Kulgam	VHR	-	1
Kupwara	-	VHR	1
Pulwama	VHR	VHR	2
Srinagar	-	VHR	1
Total No of District at Disease risk	3	7	10

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation Strategies

Ensure 100% vaccination for Babesiosis and Sheep & Goat Pox in VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

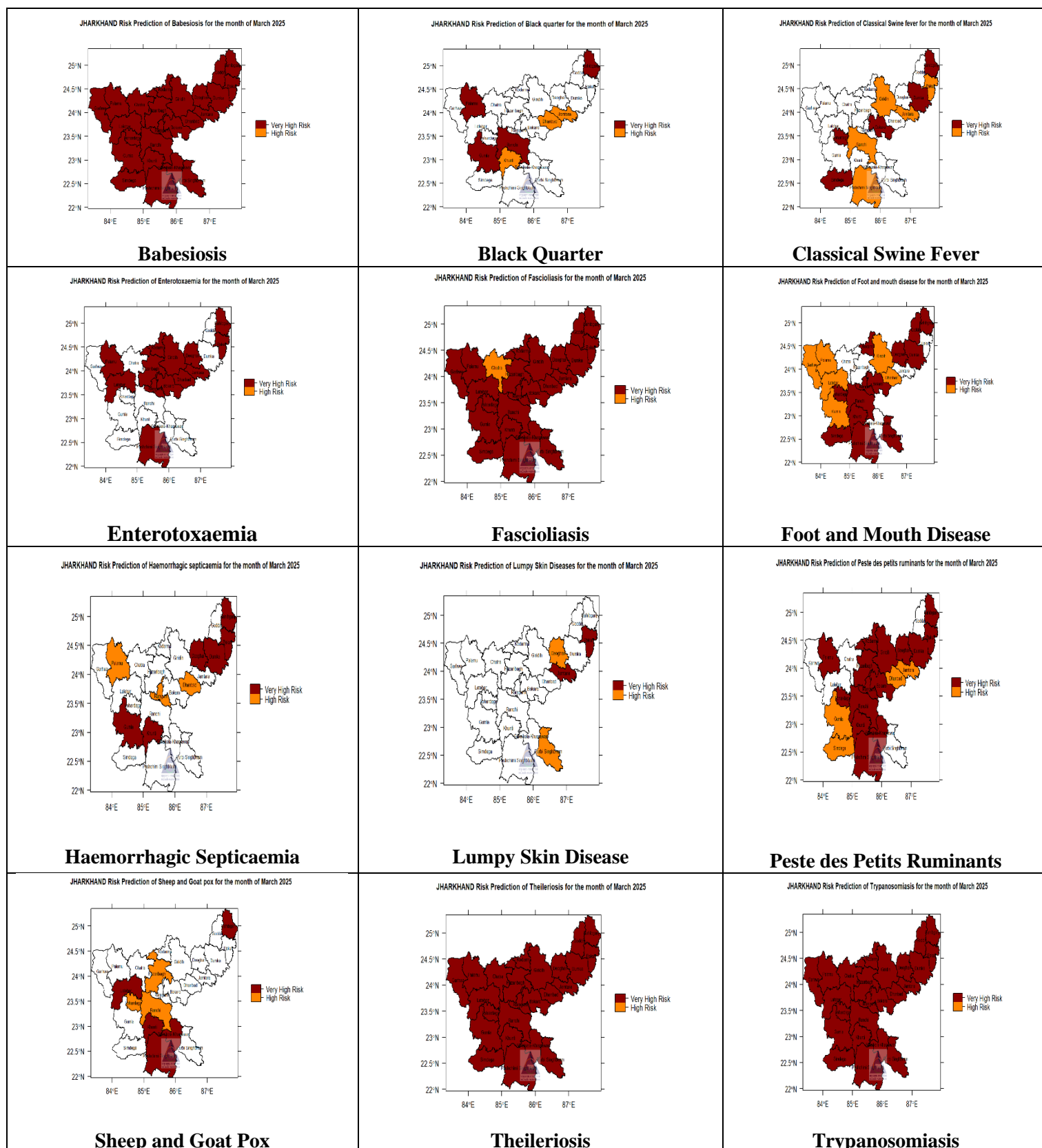
3.15. Jharkhand

The livestock disease forecast for **Jharkhand** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **12** major diseases. Among these, Babesiosis (24 districts), Fasciolosis (24 districts), Theileriosis (24 districts), Trypanosomosis (24 districts), Foot and Mouth Disease (19 districts) and Peste des Petits Ruminants (19 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Jharkhand During March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	Twenty-Four	All Districts
2	Black Quarter	Seven	Dhanbad, Gumla, Jamtara, Khunti, Palamu, Ranchi and Sahibganj
3	Classical Swine Fever	Ten	Bokaro, Dumka, Giridih, Jamtara, Lohardaga, Pakur, Pashchimi, Singhbhum, Ranchi, Sahibganj and Simdega
4	Enterotoxaemia	Thirteen	Bokaro, Deoghar, Dhanbad, Giridih, Hazaribagh, Jamtara, Kodarma, Latehar, Pakur, Palamu, Pashchimi Singhbhum, Ramgarh and Sahibganj
5	Fasciolosis	Twenty-Four	All Districts
6	Foot and Mouth Disease	Nineteen	Bokaro, Deoghar, Dhanbad, Dumka, Garhwa, Giridih, Godda, Gumla, Khunti, Kodarma, Latehar, Lohardaga, Palamu, Pashchimi Singhbhum, Purbi Singhbhum, Ramgarh, Ranchi, Sahibganj and Simdega
7	Haemorrhagic Septicaemia	Nine	Deoghar, Dhanbad, Dumka, Gumla, Khunti, Pakur, Palamu, Ramgarh and Sahibganj
8	Lumpy Skin Disease	Four	Deoghar, Jamtara, Pakur and Purbi Singhbhum
9	Peste des petits ruminants	Nineteen	Bokaro, Deoghar, Dhanbad, Dumka, Giridih, Gumla, Hazaribagh, Jamtara, Khunti, Kodarma, Lohardaga, Pakur, Palamu, Pashchimi Singhbhum, Ramgarh, Ranchi, Sahibganj, Saraikela-Kharsawan and Simdega
10	Sheep & Goat pox	Eight	Hazaribagh, Khunti, Latehar, Lohardaga, Pashchimi Singhbhum, Ranchi, Sahibganj and Saraikela-Kharsawan
11	Theileriosis	Twenty-Four	All Districts
12	Trypanosomosis	Twenty-Four	All Districts

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Jharkhand



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Jharkhand

Districts of Jharkhand	Livestock Diseases												
	Babe siosis	BQ	CSF	ET	Fasci olosis	FMD	HS	LSD	PPR	S&G Pox	Theil eriosi s	Tryp anoso mosis	Total No of Disease Risk per District
Bokaro	VHR	-	VHR	VHR	VHR	VHR	-	-	VHR	-	VHR	VHR	8
Chatra	VHR	-	-	-	HR	-	-	-	-	-	VHR	VHR	4
Deoghar	VHR	-	-	VHR	VHR	VHR	VHR	HR	VHR	-	VHR	VHR	9
Dhanbad	VHR	HR	-	VHR	VHR	HR	HR	-	HR	-	VHR	VHR	9
Dumka	VHR	-	VHR	-	VHR	VHR	VHR	-	VHR	-	VHR	VHR	8
Garhwa	VHR	-	-	-	VHR	HR	-	-	-	-	VHR	VHR	5
Giridih	VHR	-	HR	VHR	VHR	HR	-	-	VHR	-	VHR	VHR	8
Godda	VHR	-	-	-	VHR	VHR	-	-	-	-	VHR	VHR	5
Gumla	VHR	VHR	-	-	VHR	HR	VHR	-	HR	-	VHR	VHR	8
Hazaribagh	VHR	-	-	VHR	VHR	-	-	-	VHR	HR	VHR	VHR	7
Jamtara	VHR	HR	HR	VHR	VHR	-	-	VHR	HR	-	VHR	VHR	9
Khunti	VHR	HR	-	-	VHR	VHR	VHR	-	VHR	VHR	VHR	VHR	9
Kodarma	VHR	-	-	VHR	VHR	VHR	-	-	VHR	-	VHR	VHR	7
Latehar	VHR	-	-	VHR	VHR	HR	-	-	-	VHR	VHR	VHR	7
Lohardaga	VHR	-	VHR	-	VHR	VHR	-	-	VHR	HR	VHR	VHR	8
Pakur	VHR	-	HR	VHR	VHR	-	VHR	VHR	VHR	-	VHR	VHR	9
Palamu	VHR	VHR	-	VHR	VHR	HR	HR	-	VHR	-	VHR	VHR	9
Pashchimi Singhbhum	VHR	-	HR	VHR	VHR	VHR	-	-	VHR	VHR	VHR	VHR	9
Purbi Singhbhum	VHR	-	-	-	VHR	VHR	-	HR	-	-	VHR	VHR	6
Ramgarh	VHR	-	-	VHR	VHR	VHR	HR	-	VHR	-	VHR	VHR	8
Ranchi	VHR	VHR	HR	-	VHR	VHR	-	-	VHR	HR	VHR	VHR	9
Sahibganj	VHR	VHR	VHR	VHR	VHR	VHR	VHR	-	VHR	VHR	VHR	VHR	11
Saraikela- Kharsawan	VHR	-	-	-	VHR	-	-	-	VHR	VHR	VHR	VHR	6
Simdega	VHR	-	VHR	-	VHR	VHR	-	-	HR	-	VHR	VHR	7
Total No of District at Disease risk	24	7	10	13	24	19	9	4	19	8	24	24	185

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for Babesiosis, Theileriosis, Trypanosomiasis and PPR in VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

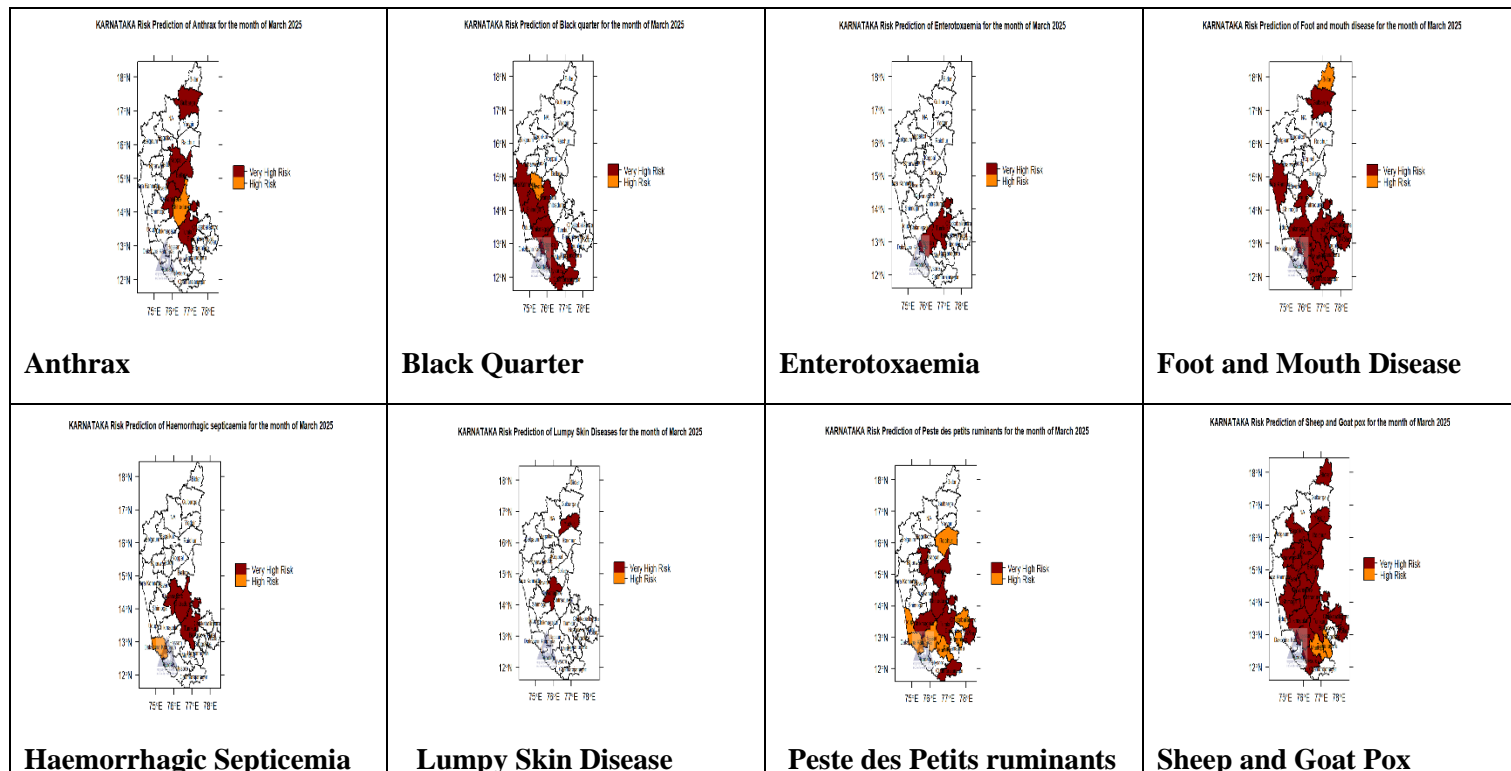
3.16. Karnataka

The livestock disease forecast for **Karnataka** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **8** major diseases. Among these, Sheep and Goat Pox (20 districts), Foot and Mouth Disease (14 districts), and Peste des Petits Ruminants (14 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Karnataka during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Anthrax	Six	Bellary, Chitradurga, Davanagere, Gulbarga, Koppal and Tumkur
2	Black Quarter	Nine	Chamarajanagar, Chikmagalur, Davanagere, Hassan, Haveri, Mysore, Ramanagara, Shimoga and Uttara Kannada
3	Enterotoxaemia	Two	Hassan and Tumkur
4	Foot and Mouth Disease	Fourteen	Bangalore Rural, Bidar, Chamarajanagar, Chikkaballapura, Chikmagalur, Davanagere, Gulbarga, Hassan, Kolar, Mandya, Mysore, Ramanagara, Tumkur and Uttara Kannada
5	Haemorrhagic septicemia	Four	Chitradurga, Dakshina Kannada, Davanagere and Tumkur
6	Lumpy Skin Disease	Two	Davanagere and Yadgir
7	Peste des Petits Ruminants	Fourteen	Bangalore, Bellary, Chamarajanagar, Chikkaballapura, Chikmagalur, Chitradurga, Dakshina Kannada, Gadag, Hassan, Kolar, Mandya, Raichur, Tumkur and Udupi
8	Sheep & Goat pox	Twenty	Bagalkot, Bellary, Bidar, Chikkaballapura, Chikmagalur, Chitradurga, Davanagere, Dharwad, Gadag, Hassan, Haveri, Kolar, Koppal, Mandya, Mysore, Raichur, Ramanagara, Shimoga, Tumkur and Yadgir

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Karnataka



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Karnataka

Districts of Karnataka	Livestock Diseases								
	Anthrax	BQ	ET	FMD	HS	LSD	PPR	S&G Pox	Total No. of disease risk per district
Bagalkot	-	-	-	-	-	-	-	VHR	1
Bangalore	-	-	-	-	-	-	HR	-	1
Bangalore Rural	-	-	-	VHR	-	-	-	-	1
Bellary	VHR	-	-	-	-	-	VHR	VHR	3
Bidar	-	-	-	HR	-	-	-	VHR	2
Chamarajanagar	-	VHR	-	VHR	-	-	VHR	-	3
Chikkaballapura	-	-	-	VHR	-	-	HR	VHR	3
Chikmagalur	-	VHR	-	VHR	-	-	VHR	VHR	4
Chitradurga	HR	-	-	-	VHR	-	VHR	VHR	4
Dakshina Kannada	-	-	-	-	HR	-	HR	-	2
Davanagere	VHR	VHR	-	VHR	VHR	VHR	-	VHR	6
Dharwad	-	-	-	-	-	-	-	VHR	1
Gadag	-	-	-	-	-	-	VHR	VHR	2
Gulbarga	VHR	-	-	VHR	-	-	-	-	2
Hassan	-	VHR	VHR	VHR	-	-	HR	VHR	5
Haveri	-	HR	-	-	-	-	-	VHR	2
Kolar	-	-	-	VHR	-	-	VHR	VHR	3
Koppal	VHR	-	-	-	-	-	-	VHR	2
Mandya	-	-	-	VHR	-	-	HR	HR	3
Mysore	-	VHR	-	VHR	-	-	-	VHR	3
Raichur	-	-	-	-	-	-	HR	VHR	2
Ramanagara	-	VHR	-	VHR	-	-	-	HR	3
Shimoga	-	VHR	-	-	-	-	-	VHR	2
Tumkur	VHR	-	VHR	VHR	VHR	-	VHR	VHR	6
Udupi	-	-	-	-	-	-	HR	-	1
Uttara Kannada	-	VHR	-	VHR	-	-	-	-	2
Yadgir	-	-	-	-	-	VHR	-	VHR	2
Total No. of district at disease risk	6	9	2	14	4	2	14	20	71

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for Sheep & Goat Pox, FMD, PPR, Black Quarter and Anthrax in VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks

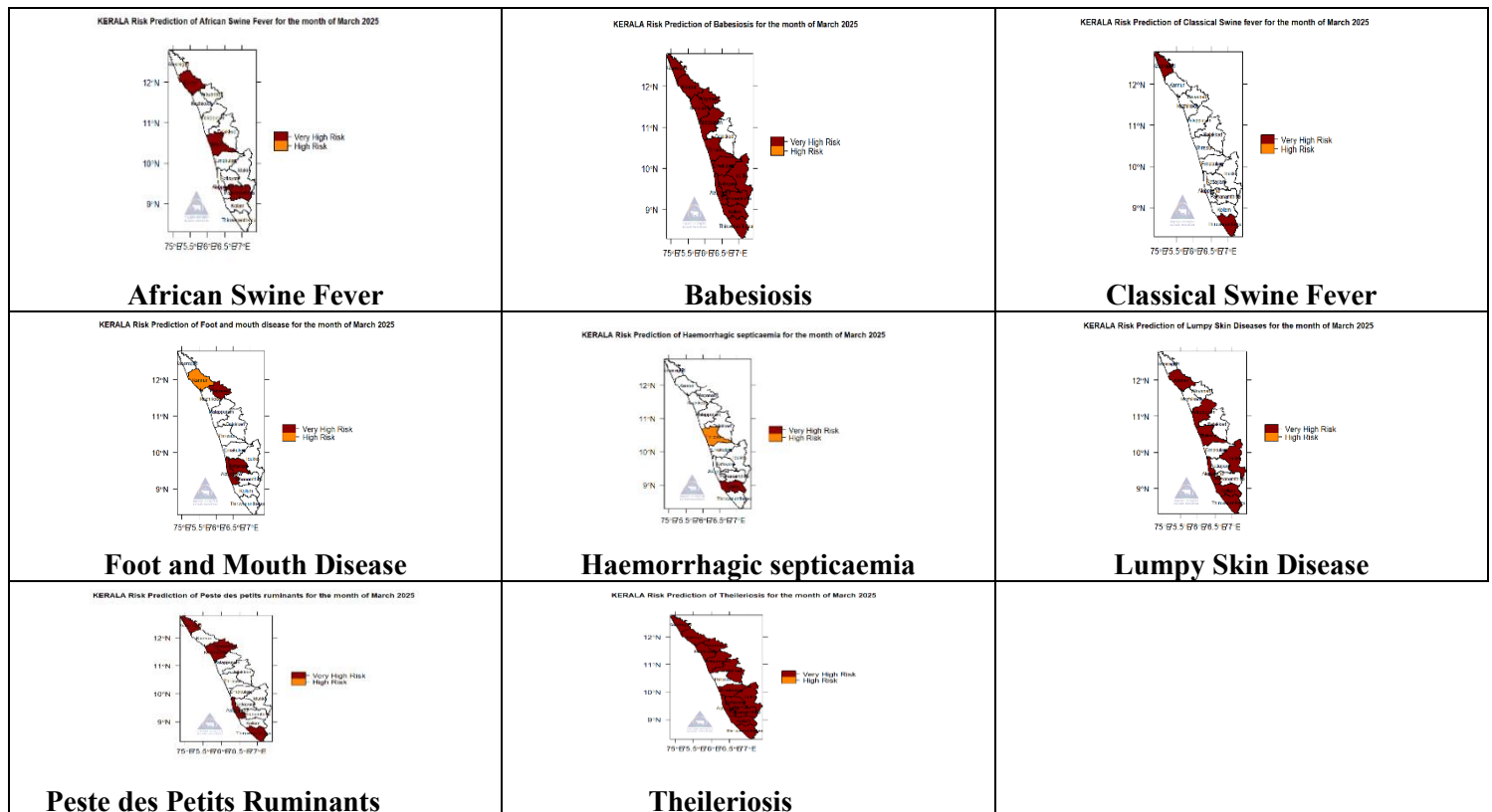
3.17. Kerala

The livestock disease forecast for **Kerala** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **8** major diseases. Among these, Babesiosis (13 districts), Theileriosis (13 districts), Peste des Petits Ruminants (5 districts) and Foot and Mouth Disease (4 Districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Kerala during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	Three	Kannur, Pathanamthitta and Thrissur
2	Babesiosis	Thirteen	All Districts except Palakkad
3	Classical Swine Fever	Two	Kasaragod and Thiruvananthapuram
4	Foot and Mouth Disease	Four	Alappuzha, Kannur, Kottayam and Wayanad
5	Haemorrhagic Septicaemia	Two	Kollam and Thrissur
6	Lumpy Skin Disease		Alappuzha, Idukki, Kannur, Kollam, Malappuram, Thiruvananthapuram and Thrissur
7	Peste des Petits Ruminants	Five	Alappuzha, Kasaragod, Kozhikode, Thiruvananthapuram and Wayanad
8	Theileriosis	Thirteen	All Districts except Thrissur

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Kerala



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Kerala

Districts of Kerala	Livestock Diseases								
	ASF	Babesiosis	CSF	FMD	HS	LSD	PPR	Theileriosis	Total No of Disease Risk per District
Alappuzha	-	VHR	-	VHR	-	VHR	VHR	VHR	5
Ernakulam	-	VHR	-	-	-	-	-	VHR	2
Idukki	-	VHR	-	-	-	VHR	-	VHR	3
Kannur	VHR	VHR	-	HR	-	VHR	-	VHR	5
Kasaragod	-	VHR	VHR	-	-	-	VHR	VHR	4
Kollam	-	VHR	-	-	VHR	VHR	-	VHR	4
Kottayam	-	VHR	-	VHR	-	-	-	VHR	3
Kozhikode	-	VHR	-	-	-	-	VHR	VHR	3
Malappuram	-	VHR	-	-	-	VHR	-	VHR	3
Palakkad	-	-	-	-	-	-	-	VHR	1
Pathanamthitta	VHR	VHR	-	-	-	-	-	VHR	3
Thiruvananthapuram	-	VHR	VHR	-	-	VHR	VHR	VHR	5
Thrissur	VHR	VHR	-	-	HR	VHR	-	-	4
Wayanad	-	VHR	-	VHR	-	-	VHR	VHR	4
Total No of District at Disease risk	3	13	2	4	2	7	5	13	49

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for Babesiosis, Theileriosis, Lumpy Skin Disease, FMD and PPR in VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

3.18. Lakshadweep

The livestock disease forecast for **Lakshadweep** for **March 2025** shows **no risk**. However, maintaining risk mitigation strategies such as routine disease surveillance for early detection, vaccination programs, and heightened biosecurity measures is recommended to ensure continued disease prevention.

I. Livestock Diseases with High Predicted Risk in Different Districts of Lakshadweep during March 2025

No table

II. Disease-Specific Risk Mapping: Predicted High and Very-High Risk Levels in Different Districts of Lakshadweep

No Risk Map

III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Lakshadweep

No table

IV. Risk Mitigation/Risk communication Strategies

No Vaccination is required in districts of Lakshadweep at this time

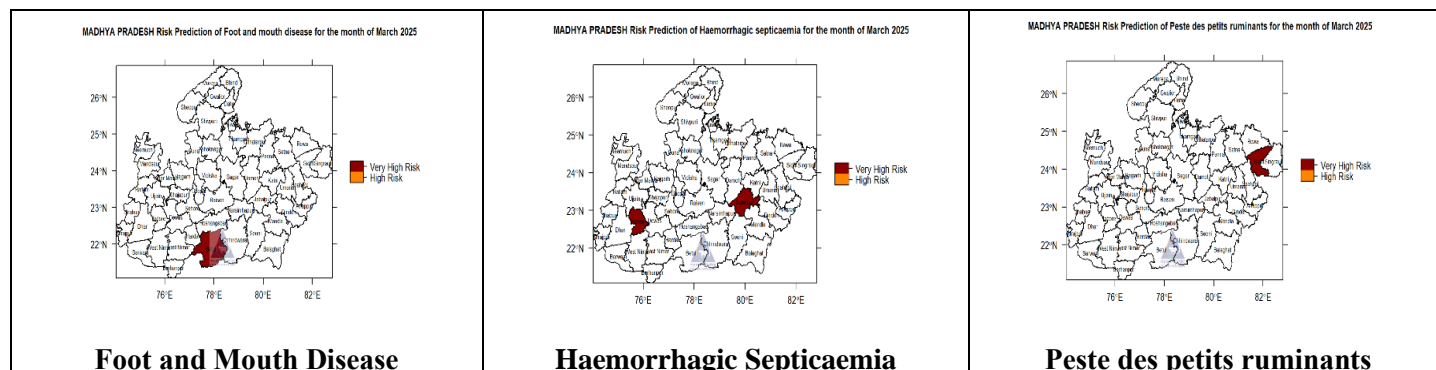
3.19. Madhya Pradesh

The livestock disease forecast for **Madhya Pradesh** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **3** major diseases. Among these, Hemorrhagic septicemia (2 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Madhya Pradesh during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Foot and Mouth Disease	One	Betul
2	Haemorrhagic Septicemia	Two	Indore and Jabalpur
3	Peste des petits ruminants	One	Sidhi

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Madhya Pradesh



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Madhya Pradesh

Districts of Madhya Pradesh	Livestock Diseases			
	FMD	HS	PPR	Total No of Disease Risk per District
Betul	<i>VHR</i>	-	-	1
Indore	-	<i>VHR</i>	-	1
Jabalpur	-	<i>VHR</i>	-	1
Sidhi	-	-	<i>VHR</i>	1
Total No of District at Disease risk	1	2	1	4

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for FMD, HS and PPR in VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

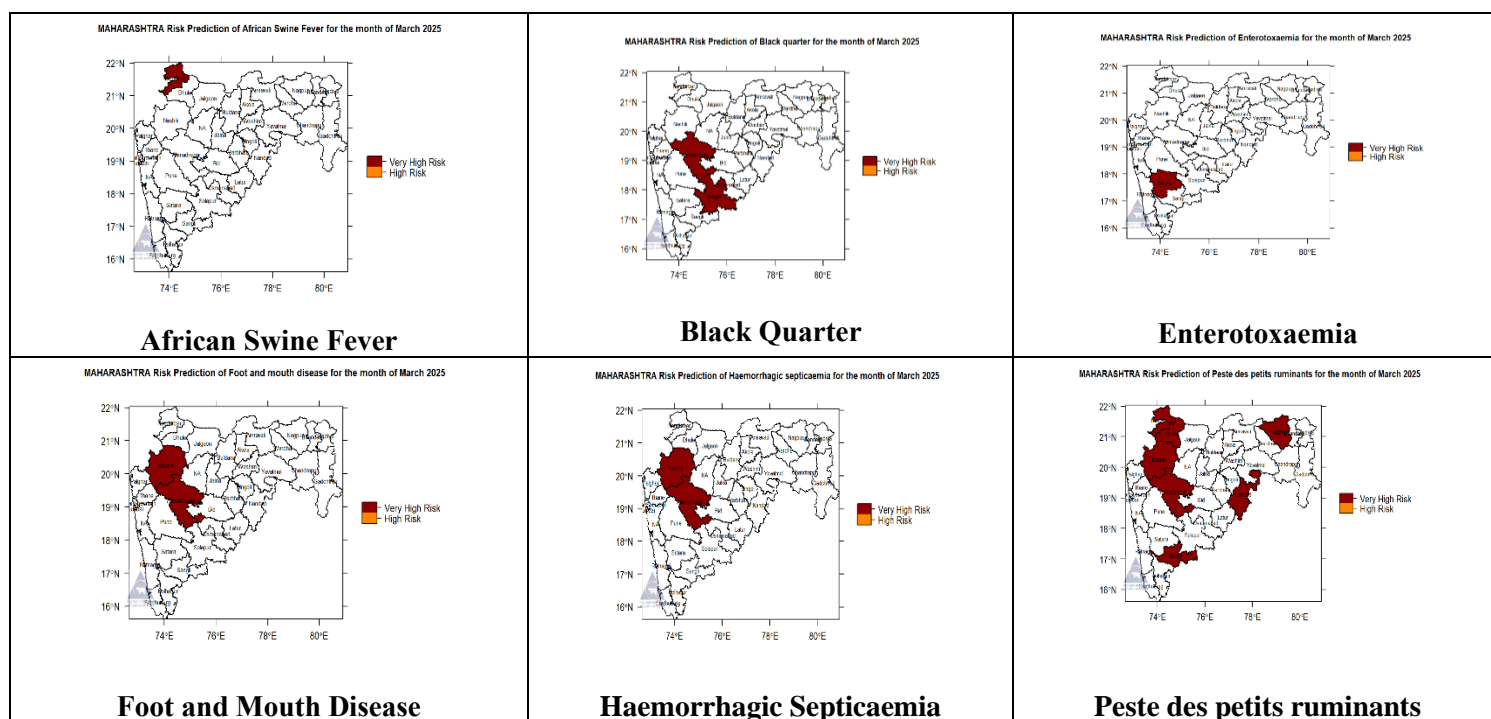
3.20. Maharashtra

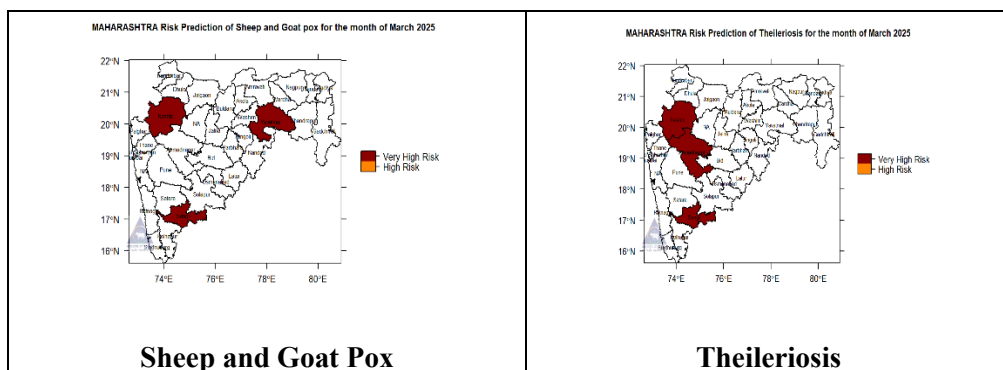
The livestock disease forecast for **Maharashtra** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **8** major diseases. Among these, Peste des Petits Ruminants (7 districts), Sheep and Goat pox (3 districts) and Theileriosis (3 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Maharashtra during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	One	Nandurbar
2	Black Quarter	Two	Ahmadnagar and Solapur
3	Enterotoxaemia	One	Satara
4	Foot and Mouth Disease	Two	Ahmadnagar and Nashik
5	Haemorrhagic septicemia	Two	Ahmadnagar and Nashik
6	Peste des petits ruminants	Seven	Ahmadnagar, Dhule, Nagpur, Nanded, Nandurbar, Nashik and Sangli
7	Sheep & Goat pox	Three	Nashik, Sangli and Yavatmal
8	Theileriosis	Three	Ahmadnagar, Nashik and Sangli

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Maharashtra





III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Maharashtra

Districts of Maharashtra	Livestock Diseases								
	ASF	BQ	ET	FMD	HS	PPR	S&G Pox	Theileriosis	Total No of Disease Risk per District
Ahmadnagar	-	<i>VHR</i>	-	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	-	<i>VHR</i>	5
Dhule	-	-	-	-	-	<i>VHR</i>	-	-	1
Nagpur	-	-	-	-	-	<i>VHR</i>	-	-	1
Nanded	-	-	-	-	-	<i>VHR</i>	-	-	1
Nandurbar	<i>VHR</i>	-	-	-	-	<i>VHR</i>	-	-	2
Nashik	-	-	-	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	5
Sangli	-	-	-	-	-	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	3
Satara	-	-	<i>VHR</i>	-	-	-	-	-	1
Solapur	-	<i>VHR</i>	-	-	-	-	-	-	1
Yavatmal	-	-	-	-	-	-	<i>VHR</i>	-	1
Total No of District at Disease risk	1	2	1	2	2	7	3	3	4

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for Sheep & Goat pox, Theileriosis and PPR in VHR districts with scheduled boosters, conduct active surveillance and testing in HR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

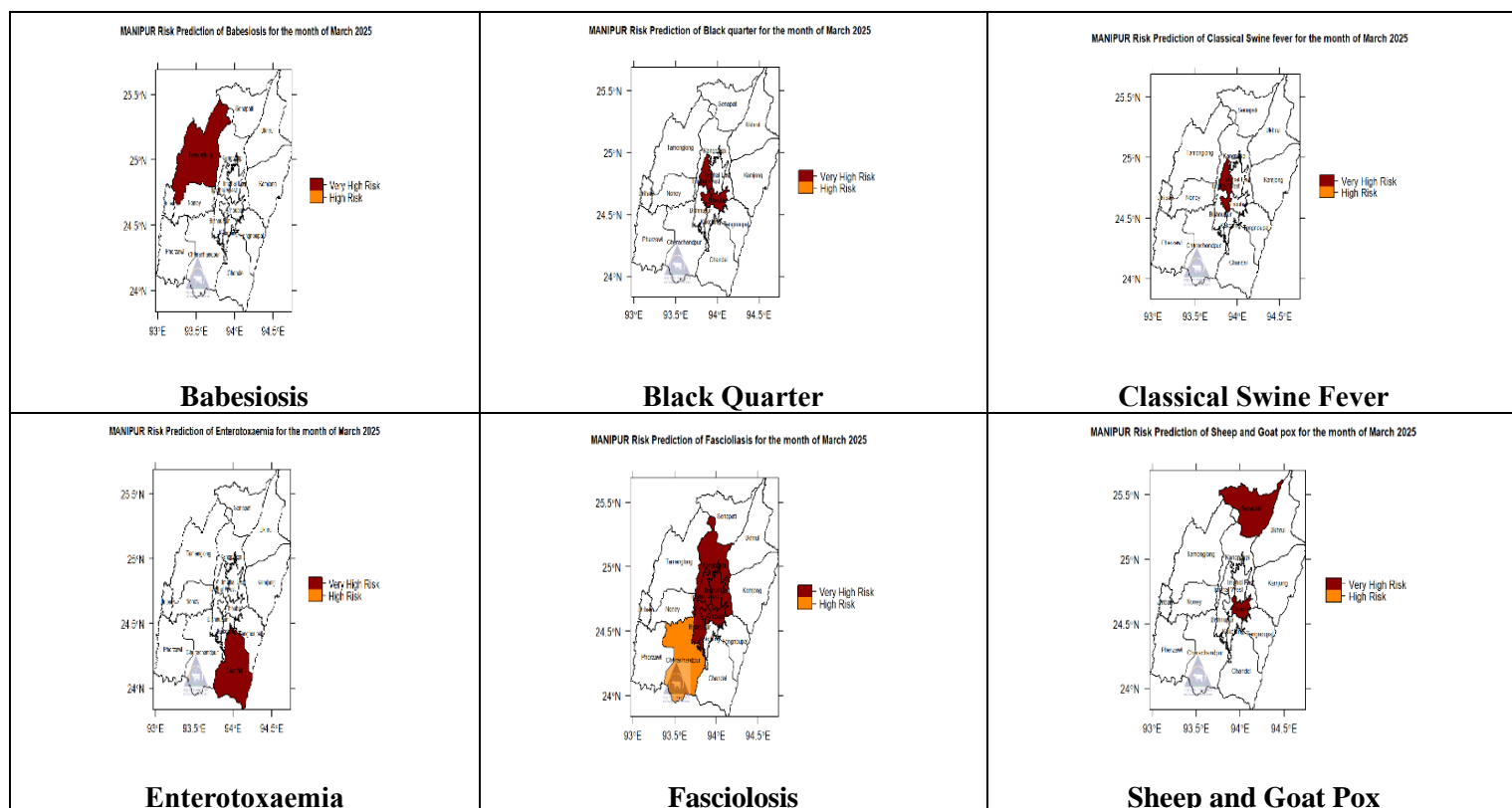
3.21. Manipur

The livestock disease forecast for **Manipur** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **6** major diseases. Among these, Fasciolosis (5 districts), Black Quarter (2 districts), and Sheep and Goat Pox (2 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Manipur during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts Predicted at Very-high level risk
1	Babesiosis	One	Tamenglong
2	Black Quarter	Two	Imphal West and Thoubal
3	Classical Swine Fever	One	Imphal West
4	Enterotoxaemia	One	Chandel
5	Fasciolosis	Five	Bishnupur, Imphal East, Imphal West, Kangpokpi and Thoubal
6	Sheep and Goat pox	Two	Senapati and Thoubal

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Manipur



III. District-wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Manipur

Districts of Manipur	Livestock Diseases						
	Babesiosis	BQ	CSF	ET	Fasciolosis	S&G Pox	Total No of Disease Risk per District
Bishnupur	-	-	-	-	<i>VHR</i>	-	1
Chandel	-	-	-	<i>VHR</i>	-	-	1
Churachandpur	-	-	-	-	<i>HR</i>	-	1
Imphal East	-	-	-	-	<i>VHR</i>	-	1
Imphal West	-	<i>VHR</i>	<i>VHR</i>	-	<i>VHR</i>	-	3
Kangpokpi	-	-	-	-	<i>VHR</i>	-	1
Senapati	-	-	-	-	-	<i>VHR</i>	1
Tamenglong	<i>VHR</i>	-	-	-	-	-	1
Thoubal	-	<i>VHR</i>	-	-	<i>VHR</i>	<i>VHR</i>	3
Total No of District at Disease risk	1	2	1	1	6	2	13

If vaccinated, please ignore the disease forecast

Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for Fasciolosis, Black quarter, and Sheep & Goat pox in VHR districts with scheduled boosters, conduct active surveillance and testing in HR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

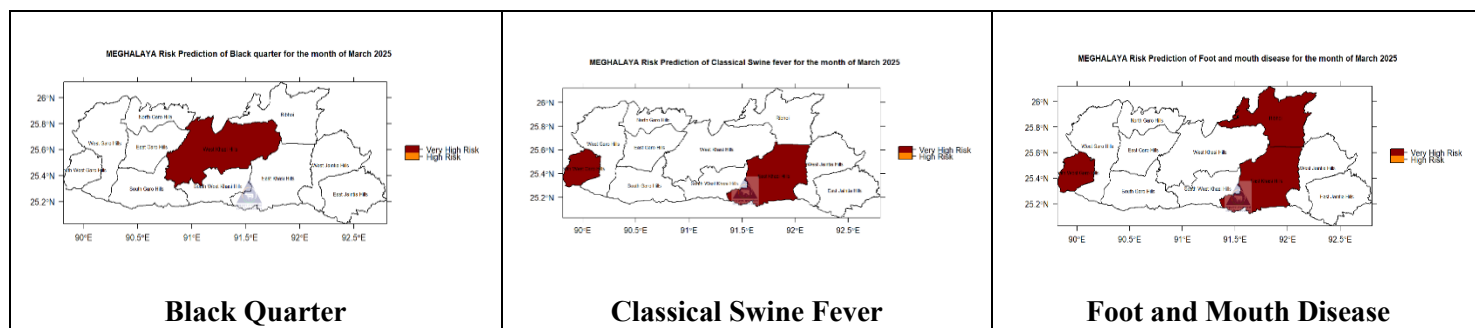
3.22. Meghalaya

The livestock disease forecast for **Meghalaya** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **3** major diseases. Among these, Foot and Mouth Disease (3 districts) and Classical Swine Fever (2 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Meghalaya during march 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts Predicted
1	Black Quarter	One	West Khasi Hills
2	Classical Swine Fever	Two	East Khasi Hills and South West Garo Hills
3	Foot and Mouth Disease	Three	East Khasi Hills, Ribhoi and South West Garo Hills

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Meghalaya



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Meghalaya

Districts of Meghalaya	Livestock Diseases			
	BQ	CSF	FMD	Total No of Disease Risk per District
East Khasi Hills	-	VHR	VHR	2
Ribhoi	-	-	VHR	1
South West Garo Hills	-	VHR	VHR	2
West Khasi Hills	VHR	-	-	1
Total No of District at Disease risk	1	2	3	6

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for FMD, Classical Swine Fever and Black quarter in VHR districts with scheduled boosters, conduct active surveillance and testing in HR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

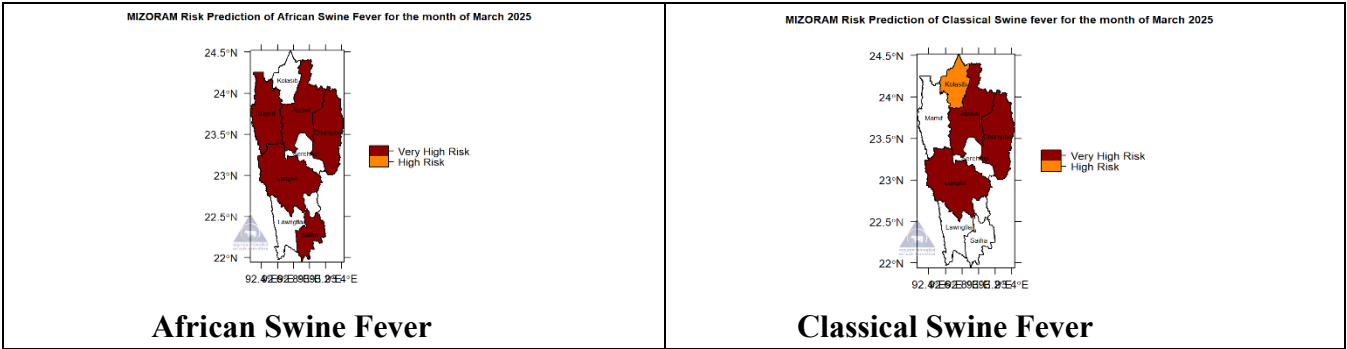
3.23. Mizoram

The livestock disease forecast for **Mizoram** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **2** major diseases. Among these, African Swine Fever (5 districts) and Classical Swine Fever (4 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Mizoram during march 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	Five	Aizawl, Champhai, Lunglei, Mamit and Saiha
2	Classical swine Fever	Four	Aizawl, Champhai and Lunglei and Kolasib

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Mizoram



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 of Mizoram

Districts of Mizoram	Livestock Diseases		
	ASF	CSF	Total No of Disease Risk per District
Aizawl	VHR	VHR	2
Champhai	VHR	VHR	2
Kolasib	-	HR	1
Lunglei	VHR	VHR	2
Mamit	VHR	-	1
Saiha	VHR	-	1
Total No of District at Disease risk	5	4	9

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for ASF and CSF in VHR districts with scheduled boosters, conduct active surveillance and testing in HR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

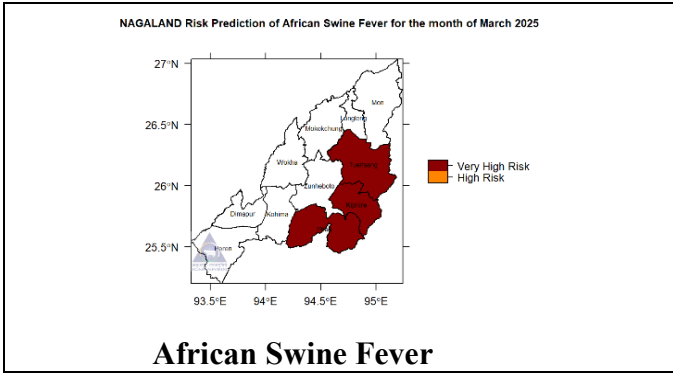
3.24. Nagaland

The livestock disease forecast for **Nagaland** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **1** major disease. Among these, African Swine Fever (3 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Nagaland during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	Three	Kiphire, Phek and Tuensang

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Nagaland



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Nagaland

Districts of Nagaland	Livestock Diseases	
	ASF	Total No of Disease Risk per District
Kiphire	VHR	1
Phek	VHR	1
Tuensang	VHR	1
Total No of District at Disease risk	3	3

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for ASF in VHR districts with scheduled boosters, conduct active surveillance and testing in HR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

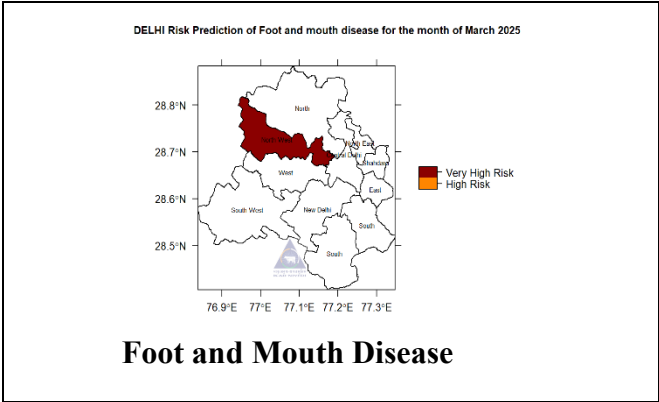
3.25. NCT of Delhi

The livestock disease forecast for **NCT of Delhi** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **1** major disease. Among these, Foot and Mouth Disease (1 district) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of NCT of Delhi during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Foot and Mouth Disease	One	North West

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of NCT of Delhi



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for NCT of Delhi

Districts of NCT of Delhi	Livestock Diseases	
	BQ	Total
North West	VHR	1
Total	1	1

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for Black Quarter in VHR districts with scheduled boosters, conduct active surveillance and testing in HR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

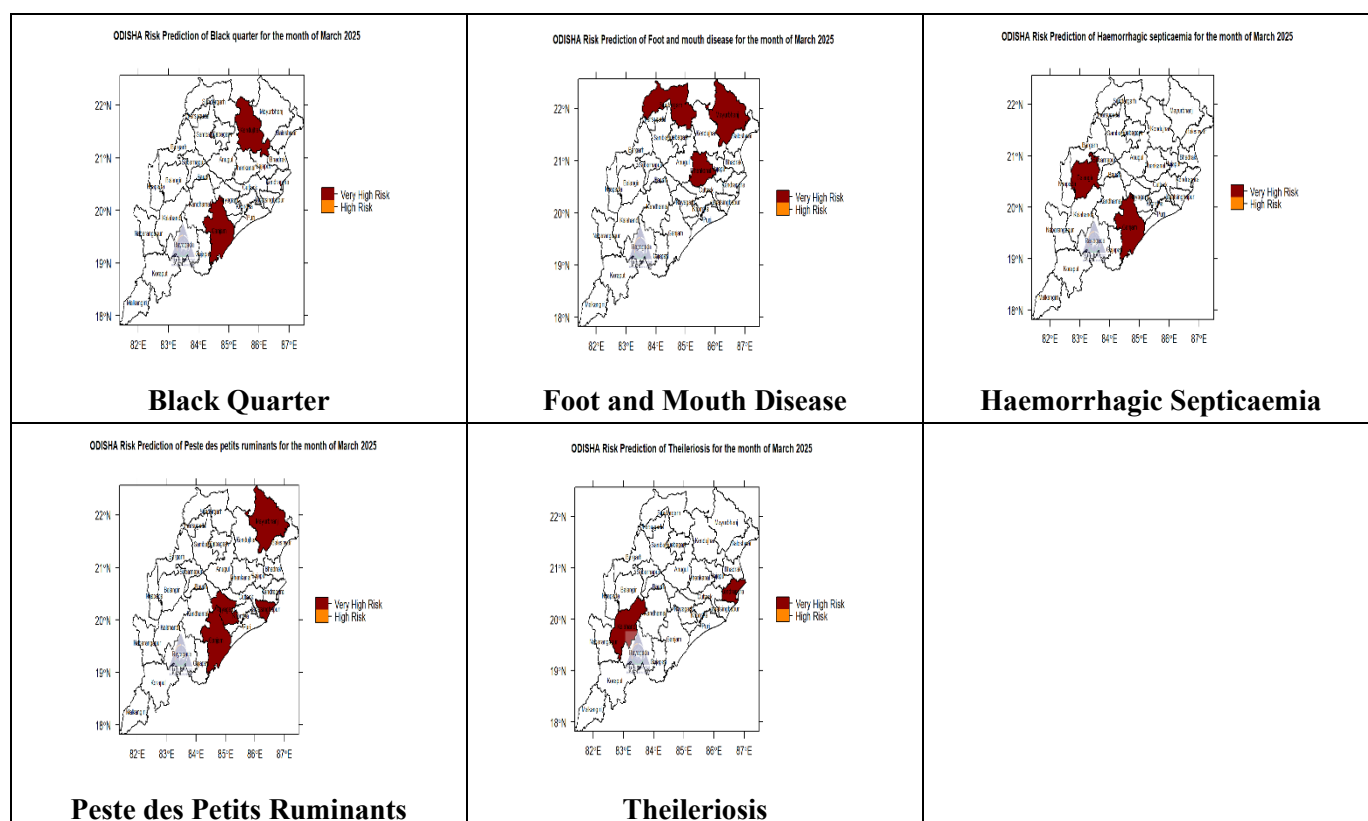
3.26. Odisha

The livestock disease forecast for **Odisha** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **5** major diseases. Among these, Foot and Mouth Disease (3 districts), and Peste des Petits Ruminants (4 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Odisha during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Black Quarter	Two	Ganjam and Kendujhar
2	Foot and Mouth Disease	Three	Dhenkanal, Mayurbhanj and Sundargarh
3	Haemorrhagic septicaemia	Two	Balangir and Ganjam
4	Peste des petits ruminants	Four	Ganjam, Jagatsinghapur, Mayurbhanj and Nayagarh
5	Theileriosis	Two	Kalahandi and Kendrapara

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Odisha



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Odisha

Districts of Odisha	Livestock Diseases					
	BQ	FMD	HS	PPR	Theileriosis	Total No of Disease Risk per District
Balangir	-	-	<i>VHR</i>	-	-	1
Dhenkanal	-	<i>VHR</i>	-	-	-	1
Ganjam	<i>VHR</i>	-	<i>VHR</i>	<i>VHR</i>	-	3
Jagatsinghapur	-	-	-	<i>VHR</i>	-	1
Kalahandi	-	-	-	-	<i>VHR</i>	1
Kendrapara	-	-	-	-	<i>VHR</i>	1
Kendujhar	<i>VHR</i>	-	-	-	-	1
Mayurbhanj	-	<i>VHR</i>	-	<i>VHR</i>	-	2
Nayagarh	-	-	-	<i>VHR</i>	-	1
Sundargarh	-	<i>VHR</i>	-	-	-	1
Total No of District at Disease risk	2	3	2	4	2	13

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for FMD, PPR, Black quarter, HS and Theileriosis in VHR districts with scheduled boosters, conduct active surveillance and testing in HR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

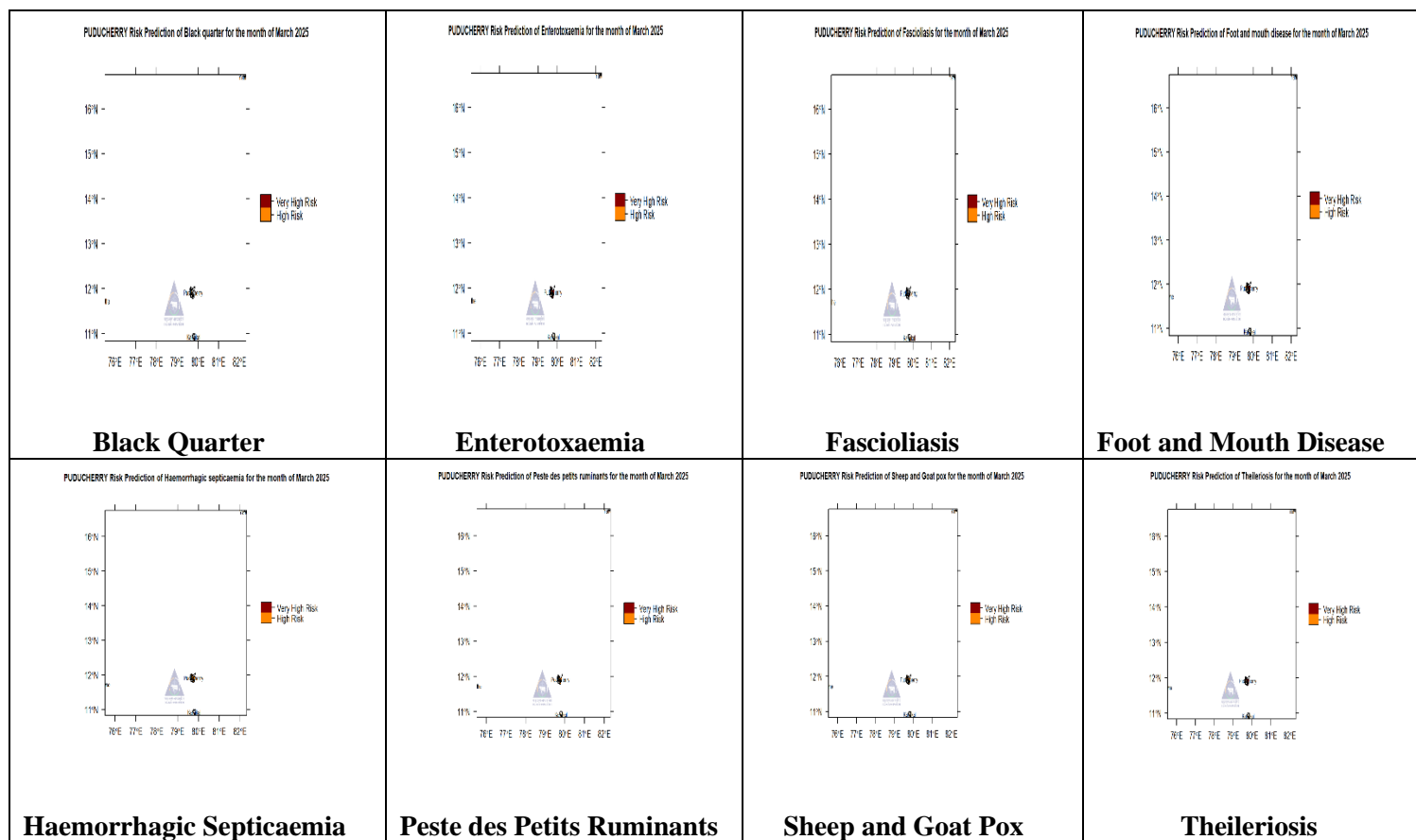
3.27. Puducherry

The livestock disease forecast for **Puducherry** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **8** major diseases. Among these, black Quarter (3 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Puducherry during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Black Quarter	Three	Karaikal and Puducherry and Yanam
2	Enterotoxaemia	One	Puducherry
3	Fascioliasis	One	Yanam
4	Foot and Mouth Disease	One	Puducherry
5	Haemorrhagic Septicaemia	One	Puducherry
6	Peste des Petits Ruminants	One	Puducherry
7	Sheep & Goat pox	One	Puducherry
8	Theileriosis	One	Puducherry

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Puducherry



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Puducherry

Districts of Puducherry	Livestock Diseases								
	Babesiosis	ET	Fasciolosis	FMD	HS	PPR	S&G Pox	Theileriosis	Total No of Disease Risk per District
Karaikal	<i>VHR</i>	-	-	-	-	-	-	-	1
Puducherry	<i>VHR</i>	<i>VHR</i>	-	<i>VHR</i>	<i>HR</i>	<i>HR</i>	<i>HR</i>	<i>VHR</i>	7
Yanam	<i>HR</i>	-	<i>VHR</i>	-	-	-	-	-	2
Total No of District at Disease risk	3	1	1	1	1	1	1	1	10

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for Babesiosis, ET, Fasciolosis, FMD, HS, Sheep & Goat pox, PPR and Theileriosis in VHR districts with scheduled boosters, conduct active surveillance and testing in HR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

3.28. Punjab

The livestock disease forecast for **Punjab** for **March 2025** predicts **no risk**. However, it is recommended to maintain risk mitigation strategies such as routine disease surveillance for early detection, vaccination programs, and heightened biosecurity measures to ensure continued disease prevention.

- I. Livestock Diseases with High Predicted Risk in Different Districts of Punjab during March 2025**
No Table

- II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Punjab**
No Risk Map

- III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Punjab**
No table

- IV. Risk Mitigation/Risk communication Strategies**

No Vaccination is required in districts of Punjab at this time

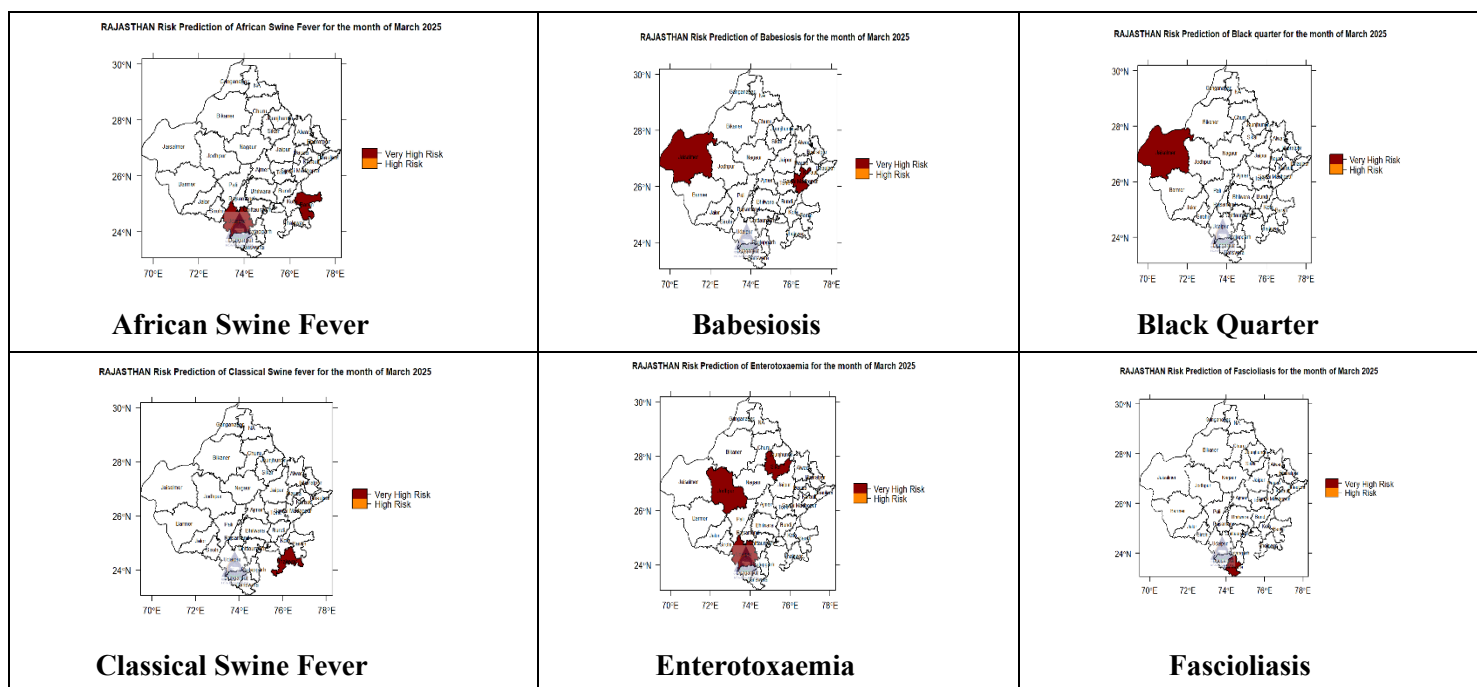
3.29. Rajasthan

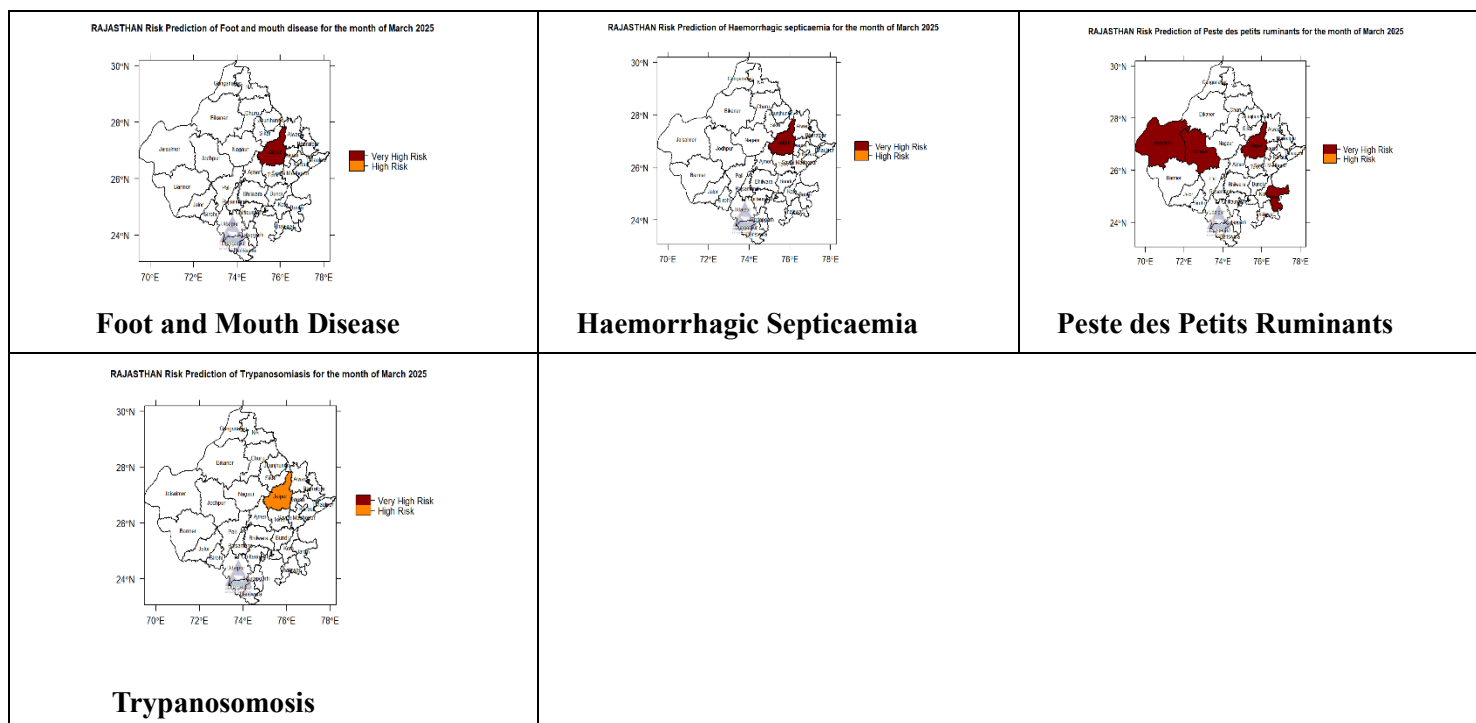
The livestock disease forecast for **Rajasthan** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **10** major diseases. Among these, Peste des Petits Ruminants (4 districts), Babesiosis (3 districts) and Enterotoxaemia (3 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Rajasthan during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	Two	Baran and Udaipur
2	Babesiosis	Three	Hanumangarh, Jaisalmer and Sawai Madhopur
3	Black Quarter	One	Jaisalmer
4	Classical Swine Fever	One	Jhalawar
5	Enterotoxaemia	Three	Jodhpur, Sikar and Udaipur
6	Fascioliasis	One	Banswara
7	Foot and Mouth Disease	One	Jaipur
8	Haemorrhagic Septicaemia	One	Jaipur
9	Peste des Petits Ruminants	Four	Baran, Jaipur, Jaisalmer and Jodhpur
10	Trypanosomosis	One	Jaipur

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Rajasthan





III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Rajasthan

Districts of Rajasthan	Livestock Diseases										
	ASF	Babesi osis	BQ	CSF	ET	Fascio losis	FMD	HS	PPR	Trypa nosom osis	Total No of Disease Risk per District
Banswara	-	-	-	-	-	<i>VHR</i>	-	-	-	-	1
Baran	<i>VHR</i>	-	-	-	-	-	-	-	<i>VHR</i>	-	2
Hanumangarh	-	<i>VHR</i>	-	-	-	-	-	-	-	-	1
Jaipur	-	-	-	-	-	-	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	<i>HR</i>	4
Jaisalmer	-	<i>VHR</i>	<i>VHR</i>	-	-	-	-	-	<i>VHR</i>	-	3
Jhalawar	-	-	-	<i>VHR</i>	-	-	-	-	-	-	1
Jodhpur	-	-	-	-	<i>VHR</i>	-	-	-	<i>VHR</i>	-	2
Sawai Madhopur	-	<i>VHR</i>	-	-	-	-	-	-	-	-	1
Sikar	-	-	-	-	<i>VHR</i>	-	-	-	-	-	1
Udaipur	<i>VHR</i>	-	-	-	<i>VHR</i>	-	-	-	-	-	2
Total No of District at Disease risk	2	3	1	1	3	1	1	1	4	1	18

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation Strategies

Ensure 100% vaccination for Babesiosis, ASF, ET, FMD and PPR in VHR districts with scheduled boosters, conduct active surveillance and testing in HR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

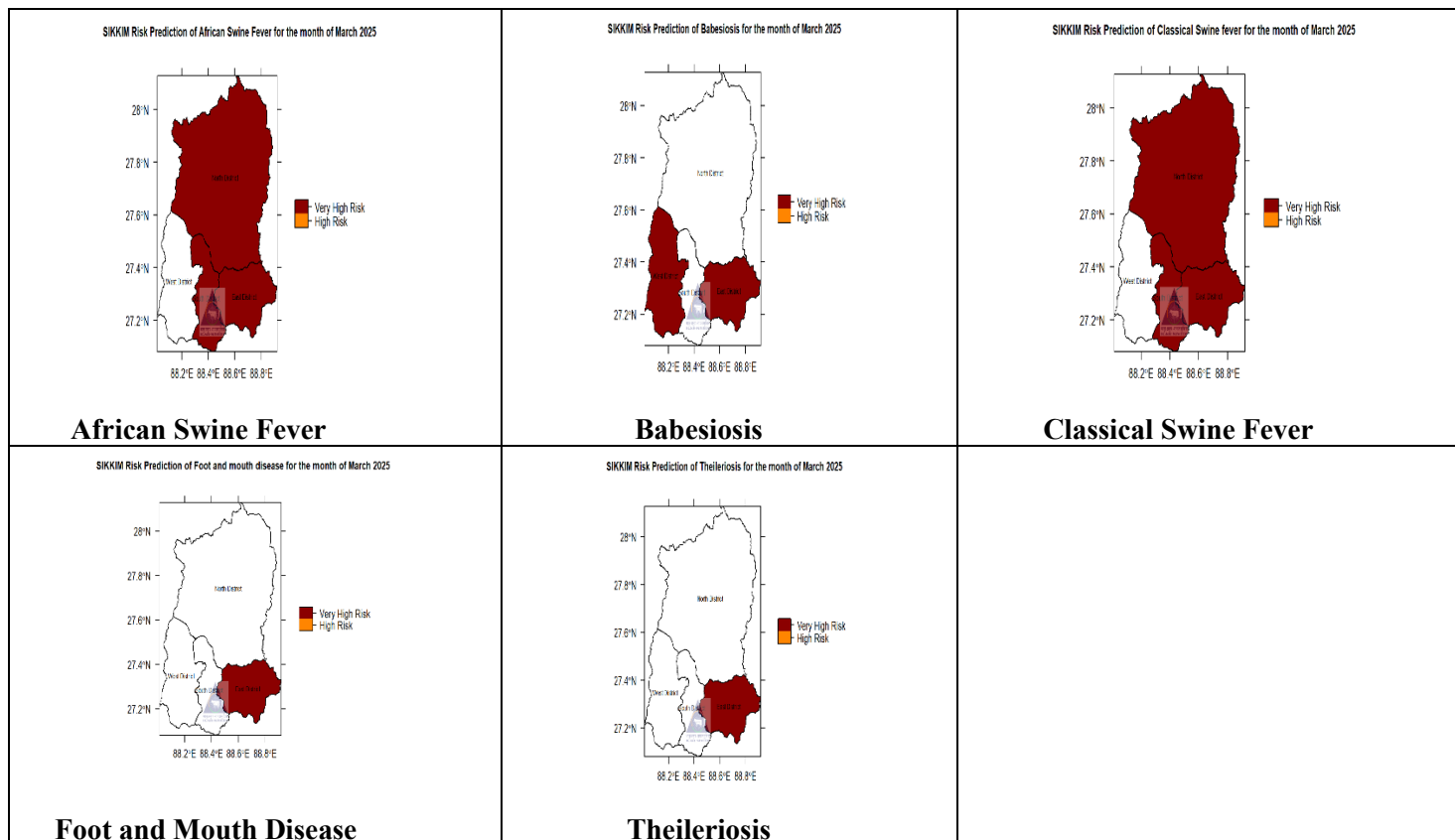
3.30. Sikkim

The livestock disease forecast for **Sikkim** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **5** major diseases. Among these, Classical Swine Fever (3 districts), African Swine Fever (3 districts) and Babesiosis (2 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Sikkim during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	Three	East District, North District and South District
2	Babesiosis	Two	East District and West District
3	Classical Swine Fever	Three	East District, North District and South District
4	Foot and Mouth Disease	One	East District
5	Theileriosis	One	East District

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Sikkim



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Sikkim

Districts of Sikkim	Livestock Diseases					
	ASF	Babesiosis	CSF	FMD	Theileriosis	Total No of Disease Risk per District
East District	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	5
North District	<i>VHR</i>	-	<i>VHR</i>	-	-	2
South District	<i>VHR</i>	-	<i>VHR</i>	-	-	2
West District	-	<i>VHR</i>	-	-	-	1
Total No of District at Disease risk	3	2	3	1	1	10

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination for ASF, Babesiosis, CSF, FMD and Theileriosis in VHR districts with scheduled boosters, conduct active surveillance and testing in HR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

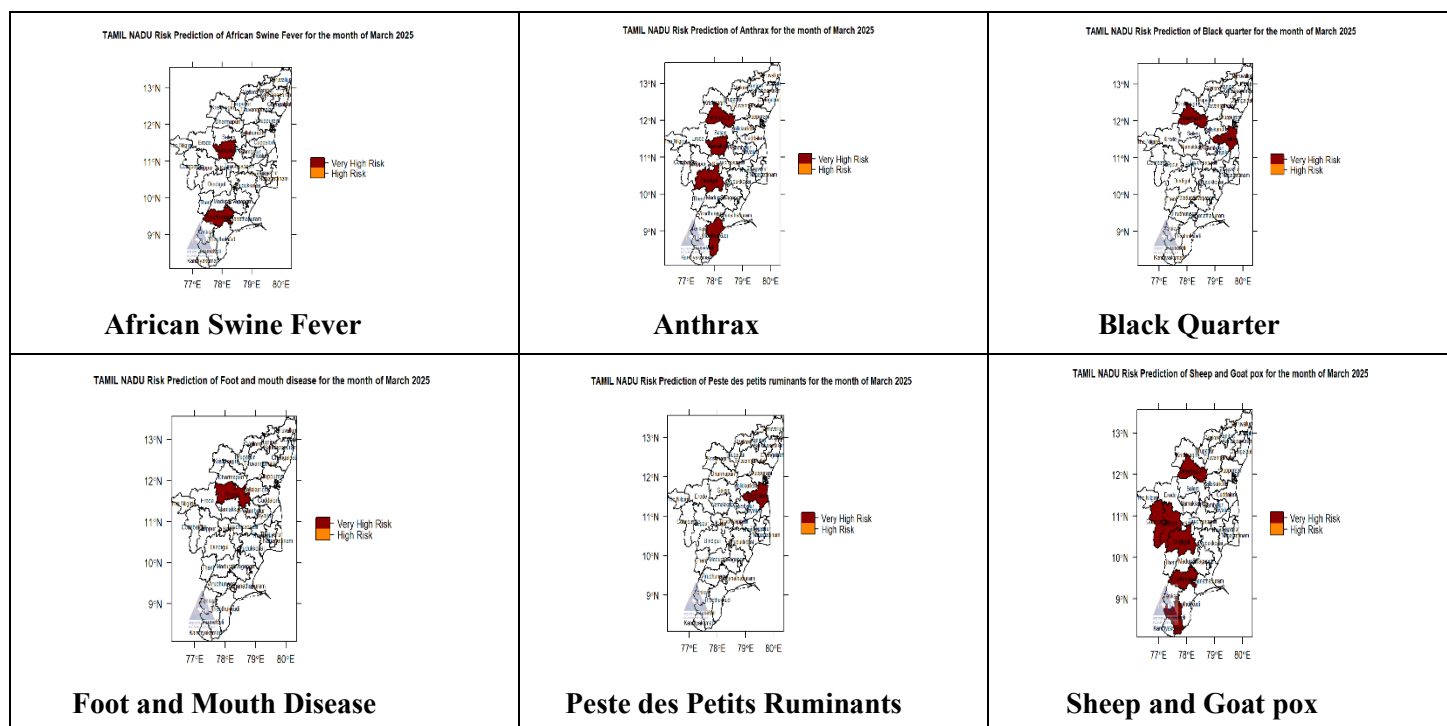
3.31. Tamil Nadu

The livestock disease forecast for **Tamil Nadu** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **6** major diseases. Among these, Sheep and Goat pox (6 districts), Anthrax (4 districts) and African Swine Fever (2 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Tamil Nadu during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	Two	Namakkal and Virudhunagar
2	Anthrax	Four	Dharmapuri, Dindigul, Namakkal and Thoothukkudi
3	Black Quarter	Two	Cuddalore and Dharmapuri
4	Foot and Mouth Disease	One	Salem
5	Peste des Petits Ruminants	One	Cuddalore
6	Sheep & Goat Pox	Six	Coimbatore, Dharmapuri, Dindigul, Tirunelveli, Tiruppur and Virudhunagar

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Tamil Nadu



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Tamil Nadu

Districts of Tamil Nadu	Livestock Diseases						
	ASF	Anthrax	BQ	FMD	PPR	S&G Pox	Total No of Disease Risk per District
Coimbatore	-	-	-	-	-	<i>VHR</i>	1
Cuddalore	-	-	<i>VHR</i>	-	<i>VHR</i>	-	2
Dharmapuri	-	<i>VHR</i>	<i>VHR</i>	-	-	<i>VHR</i>	3
Dindigul	-	<i>VHR</i>	-	-	-	<i>VHR</i>	2
Namakkal	<i>VHR</i>	<i>VHR</i>	-	-	-	-	2
Salem	-	-	-	<i>VHR</i>	-	-	1
Thoothukkudi	-	<i>VHR</i>	-	-	-	-	1
Tirunelveli	-	-	-	-	-	<i>VHR</i>	1
Tiruppur	-	-	-	-	-	<i>VHR</i>	1
Virudhunagar	<i>VHR</i>	-	-	-	-	<i>VHR</i>	2
Total No of District at Disease risk	2	4	2	1	1	6	16

If vaccinated, please ignore the disease forecast

Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination coverage for ASF, Anthrax, Black quarter, FMD, Sheep & Goat pox and PPR in VHR districts with scheduled booster doses. Conduct active surveillance and routine testing in HR districts to detect and respond early to outbreaks. Train farmers on disease management, clinical signs, and biosecurity measures to prevent infections.

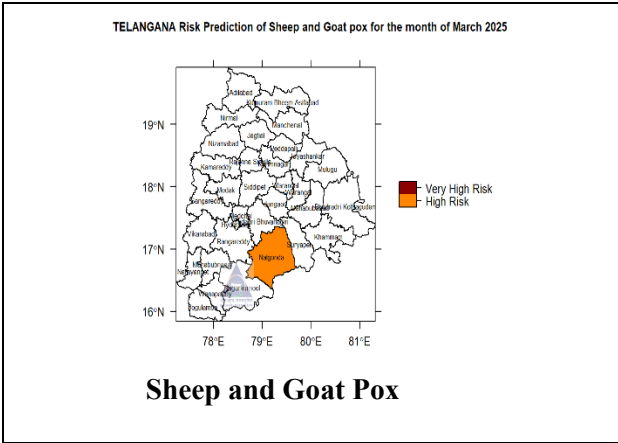
3.32. Telangana

The livestock disease forecast for **Telangana** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **1** major disease. Among these, Sheep and Goat pox (1 district) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Telangana during march 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Sheep and Goat Pox	One	Nalgonda

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Telangana



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Telangana

Districts of Telangana	Livestock Diseases	
	S&G Pox	Total No of Disease Risk per District
Nalgonda	HR	1
Total No of District at Disease risk	1	1

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination coverage for Sheep & Goat pox in VHR districts with scheduled booster doses. Conduct active surveillance and routine testing in HR districts to detect and respond early to outbreaks. Train farmers on disease management, clinical signs, and biosecurity measures to prevent infections.

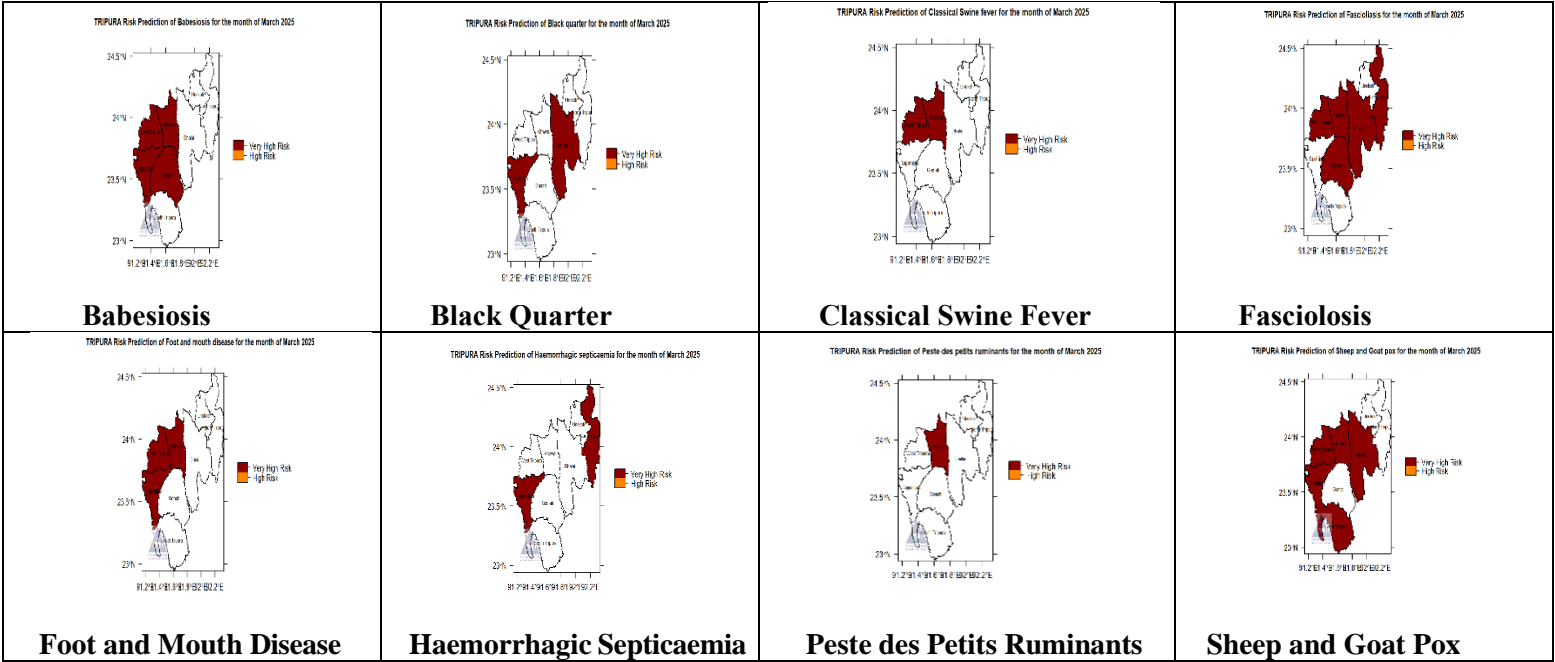
3.33. Tripura

The livestock disease forecast for **Tripura** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **8** major diseases. Among these, Sheep and Goat Pox (5 districts), Fasciolosis (5 districts), Babesiosis (4 districts) and Foot and mouth disease (3 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Tripura during march 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	Four	Gomati, Khowai, Sipahijala and West Tripura
2	Black Quarter	Two	Dhalai and Sipahijala
3	Classical Swine Fever	Two	Khowai and West Tripura
4	Fasciolosis	Five	Dhalai, Gomati, Khowai, North Tripura and West Tripura
5	Foot and Mouth Disease	Three	Khowai, Sipahijala and West Tripura
6	Haemorrhagic Septicaemia	Two	North Tripura and Sipahijala
7	Peste des Petits Ruminants	One	Khowai
8	Sheep and Goat Pox	Five	Dhalai, Khowai, Sipahijala, South Tripura and West Tripura

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Tripura



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Tripura

Districts of Tripura	Livestock Diseases								
	Babesiosis	BQ	CSF	Fasciolosis	FMD	HS	PPR	S&G Pox	Total No of Disease Risk per District
Dhalai	-	VHR	-	VHR	-	-	-	VHR	3
Gomati	VHR	-	-	VHR	-	-	-	-	2
Khowai	VHR	-	VHR	VHR	VHR	-	VHR	VHR	6
North Tripura	-	-	-	VHR	-	VHR	-	-	2
Sipahijala	VHR	VHR	-	-	VHR	VHR	-	VHR	5
South Tripura	-	-	-	-	-	-	-	VHR	1
West Tripura	VHR	-	VHR	VHR	VHR	-	-	VHR	5
Total No of District at Disease risk	4	2	2	5	3	2	1	5	24

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination coverage for Fasciolosis, FMD, Sheep & Goat Pox and PPR in VHR districts with scheduled booster doses. Conduct active surveillance and routine testing in HR districts to detect and respond early to outbreaks. Train farmers on disease management, clinical signs, and biosecurity measures to prevent infections.

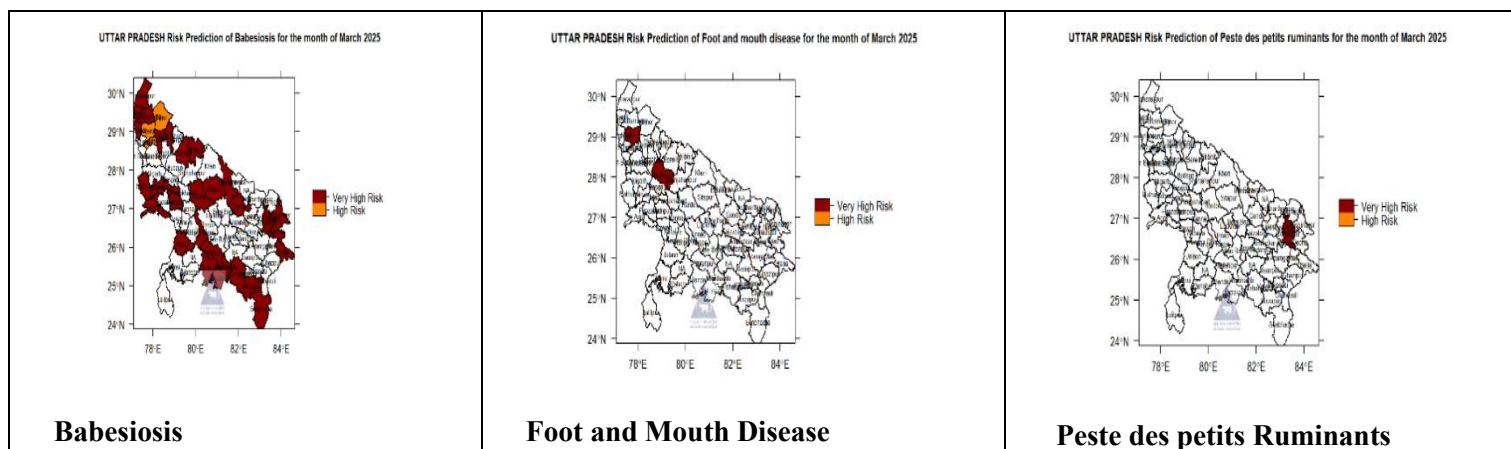
3.34. Uttar Pradesh

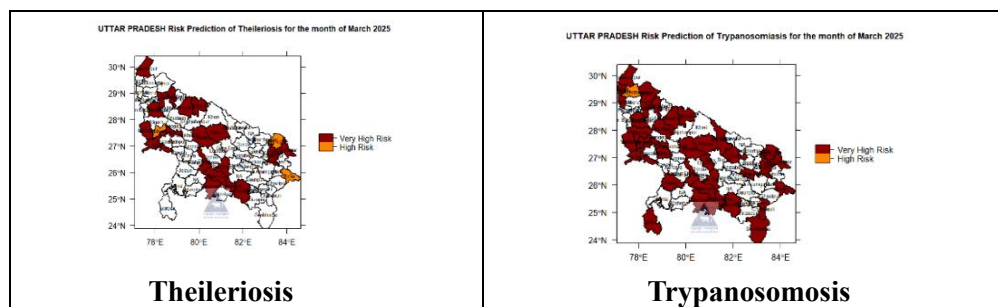
The livestock disease forecast for **Uttar Pradesh** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **5** major diseases. Among these, Trypanosomosis (38 districts), Babesiosis (33 districts) and Theileriosis (22 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Uttar Pradesh during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	Thirty-Three	Agra, Allahabad, Amroha, Baghpat, Bahraich, Ballia, Banda, Bareilly, Bijnor, Chitrakoot, Deoria, Etah, Fatehpur, Gonda, Gorakhpur, Hapur, Hardoi, Hathras, Jalaun, Kanpur Nagar, Kaushambi, Kushinagar, Mainpuri, Mathura, Meerut, Mirzapur, Moradabad, Muzaffarnagar, Pilibhit, Saharanpur, Shamli, Sitapur and Sonbhadra
2	Foot and Mouth Disease	Two	Budaun and Meerut
3	Peste des Petits Ruminants	One	Gorakhpur
4	Theileriosis	Twenty-Two	Agra, Allahabad, Amroha, Ballia, Banda, Bareilly, Bulandshahr, Etah, Fatehpur, Gorakhpur, Hardoi, Hathras, Kanpur Nagar, Kaushambi, Kushinagar, Mahrajganj, Mathura, Moradabad, Pilibhit, Rae Bareli, Saharanpur and Sitapur
5	Trypanosomosis	Thirty-Eight	Agra, Aligarh, Allahabad, Ambedkar Nagar, Amroha, Baghpat, Bahraich, Ballia, Banda, Bareilly, Bijnor, Budaun, Bulandshahr, Chandauli, Chitrakoot, Etah, Fatehpur, Gonda, Gorakhpur, Hardoi, Hathras, Jalaun, Kanpur Nagar, Kaushambi, Kushinagar, Lalitpur, Lucknow, Mahrajganj, Mainpuri, Mathura, Moradabad, Muzaffarnagar, Pilibhit, Rae Bareli, Saharanpur, Shamli, Sitapur and Sonbhadra

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Uttar Pradesh





III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for Uttar Pradesh

Districts of Uttar Pradesh	Livestock Diseases					
	Babesiosis	FMD	PPR	Theileriosis	Trypanosomosis	Total No of Disease Risk per District
Agra	VHR	-	-	VHR	VHR	3
Aligarh	-	-	-	-	VHR	1
Allahabad	VHR	-	-	VHR	VHR	3
Ambedkar Nagar	-	-	-	-	VHR	1
Amroha	VHR	-	-	VHR	VHR	3
Baghpat	VHR	-	-	-	VHR	2
Bahraich	VHR	-	-	-	VHR	2
Ballia	VHR	-	-	HR	VHR	3
Banda	VHR	-	-	VHR	VHR	3
Bareilly	VHR	-	-	VHR	VHR	3
Bijnor	HR	-	-	-	VHR	2
Budaun	-	VHR	-	-	VHR	2
Bulandshahr	-	-	-	VHR	VHR	2
Chandauli	-	-	-	-	VHR	1
Chitrakoot	VHR	-	-	-	VHR	2
Deoria	VHR	-	-	-	-	1
Etah	VHR	-	-	VHR	VHR	3
Fatehpur	VHR	-	-	VHR	VHR	3
Gonda	VHR	-	-	-	VHR	2
Gorakhpur	VHR	-	VHR	VHR	VHR	4
Hapur	HR	-	-	-	-	1
Hardoi	VHR	-	-	VHR	VHR	3
Hathras	VHR	-	-	HR	VHR	3
Jalaun	VHR	-	-	-	VHR	2
Kanpur Nagar	VHR	-	-	VHR	VHR	3
Kaushambi	VHR	-	-	VHR	VHR	3
Kushinagar	VHR	-	-	VHR	VHR	3
Lalitpur	-	-	-	-	VHR	1

Districts of Uttar Pradesh	Livestock Diseases					
	Babesiosis	FMD	PPR	Theileriosis	Trypanosomosis	Total No of Disease Risk per District
Lucknow	-	-	-	-	<i>VHR</i>	1
Mahrajganj	-	-	-	<i>HR</i>	<i>VHR</i>	2
Mainpuri	<i>VHR</i>	-	-	-	<i>VHR</i>	2
Mathura	<i>VHR</i>	-	-	<i>VHR</i>	<i>VHR</i>	3
Meerut	<i>HR</i>	<i>VHR</i>	-	-	-	2
Mirzapur	<i>VHR</i>	-	-	-	-	1
Moradabad	<i>VHR</i>	-	-	<i>VHR</i>	<i>VHR</i>	3
Muzaffarnagar	<i>VHR</i>	-	-	-	<i>HR</i>	2
Pilibhit	<i>VHR</i>	-	-	<i>VHR</i>	<i>VHR</i>	3
Rae Bareli	-	-	-	<i>VHR</i>	<i>VHR</i>	2
Saharanpur	<i>VHR</i>	-	-	<i>VHR</i>	<i>VHR</i>	3
Shamli	<i>VHR</i>	-	-	-	<i>VHR</i>	2
Sitapur	<i>VHR</i>	-	-	<i>VHR</i>	<i>VHR</i>	3
Sonbhadra	<i>VHR</i>	-	-	-	<i>VHR</i>	2
Total No of District at Disease risk	33	2	1	22	38	96

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation Strategies

Ensure 100% vaccination for Trypanosomosis, Babesiosis, Theileriosis, FMD and PPR in VHR districts with scheduled boosters, conduct active surveillance and testing in HR districts, and train farmers on disease management and biosecurity measures to prevent outbreaks.

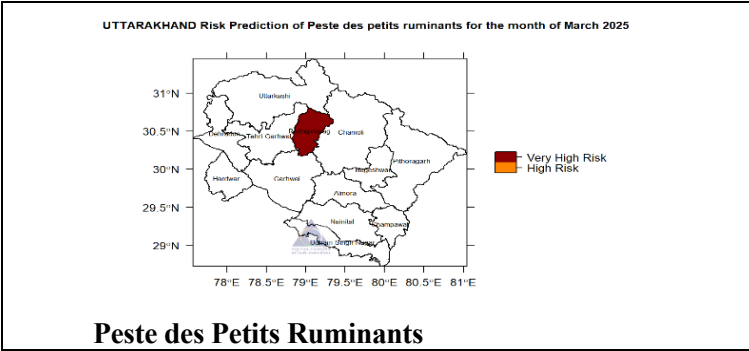
3.35. Uttarakhand

The livestock disease forecast for **Uttarakhand** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **1** major disease. Among these, Peste des Petits Ruminants (1 district) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of Uttarakhand during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Peste des Petits Ruminants	One	Rudraprayag

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Uttarakhand



III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025

Districts of Uttarakhand	Livestock Diseases	
	PPR	Total No of Disease Risk per District
Rudraprayag	VHR	1
Total No of District at Disease risk	1	1

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination coverage for PPR in VHR districts with scheduled booster doses. Conduct active surveillance and routine testing in HR districts to detect and respond early to outbreaks. Train farmers on disease management, clinical signs, and biosecurity measures to prevent infections.

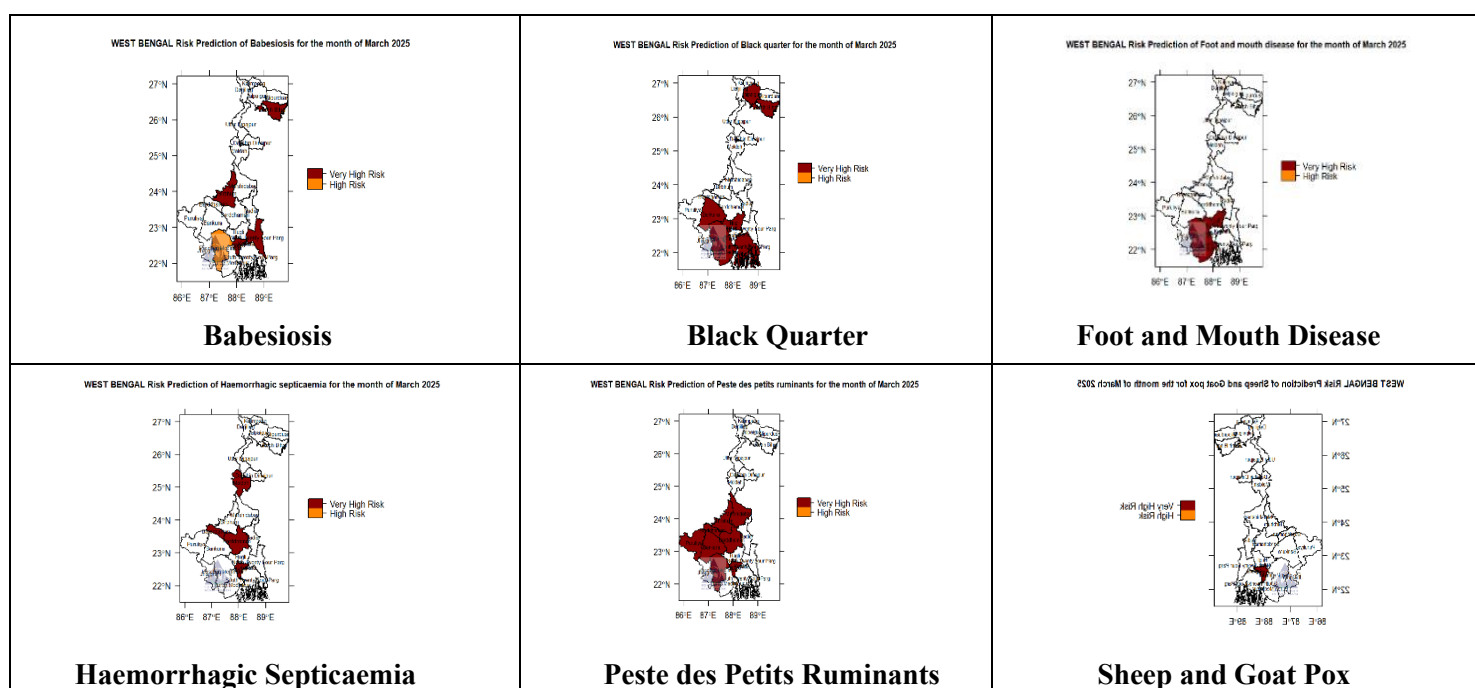
3.36. West Bengal

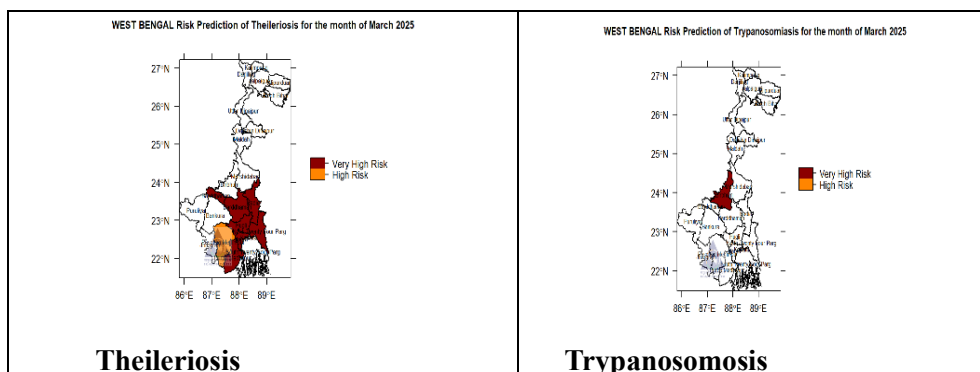
The livestock disease forecast for **West Bengal** for **March 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **8** major diseases. Among these, Black Quarter (7 districts), Peste des Petits Ruminants (7 districts) and Theileriosis (7 districts) pose the highest predicted risks. This forewarning aims to enable timely preparation and appropriate actions, such as disease surveillance, targeted vaccination drives, and stringent biosecurity measures, to reduce disease incidence and safeguard livestock populations.

I. Livestock Diseases with High Predicted Risk in Different Districts of West Bengal during March 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	Five	Birbhum, Haora, Koch Bihar, North Twenty-Four Parg and Paschim Medinipur
2	Black Quarter	Seven	Bankura, Hugli, Jalpaiguri, Koch Bihar, Paschim Medinipur, Purba Medinipur and South Twenty-Four Parg
3	Foot and Mouth disease	Three	Hugli, Paschim Medinipur and Purba Medinipur
4	Haemorrhagic Septicaemia	Three	Barddhaman, Haora and Maldah
5	Peste des petits ruminants	Seven	Bankura, Barddhaman, Birbhum, Haora, Murshidabad, Paschim Medinipur and Puruliya
6	Sheep and Goat pox	One	Haora
7	Theileriosis	Seven	Barddhaman, Haora, Hugli, Nadia, North Twenty-Four Parg, Paschim Medinipur and Purba Medinipur
8	Trypanosomiasis	One	Birbhum

II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of West Bengal





III. District-Wise Risk Assessment for Livestock Disease Forewarning for March 2025 for West Bengal

Districts of West Bengal	Livestock Diseases								Total No of Disease Risk per District
	Babesiosis	BQ	FMD	HS	PPR	S&G Pox	Theileriosis	Trypanosomiasis	
Bankura	-	<i>VHR</i>	-	-	<i>VHR</i>	-	-	-	2
Bardhaman	-	-	-	<i>VHR</i>	<i>VHR</i>	-	<i>VHR</i>	-	3
Birbhum	<i>VHR</i>	-	-	-	<i>VHR</i>	-	-	<i>VHR</i>	3
Haora	<i>VHR</i>	-	-	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	-	5
Hugli	-	<i>VHR</i>	<i>VHR</i>	-	-	-	<i>VHR</i>	-	3
Jalpaiguri	-	<i>VHR</i>	-	-	-	-	-	-	1
Koch Bihar	<i>VHR</i>	<i>VHR</i>	-	-	-	-	-	-	2
Maldah	-	-	-	<i>VHR</i>	-	-	-	-	1
Murshidabad	-	-	-	-	<i>VHR</i>	-	-	-	1
Nadia	-	-	-	-	-	-	<i>VHR</i>	-	1
North Twenty-Four Parg	<i>VHR</i>	-	-	-	-	-	<i>VHR</i>	-	2
Paschim Medinipur	<i>HR</i>	<i>VHR</i>	<i>VHR</i>	-	<i>VHR</i>	-	<i>HR</i>	-	5
Purba Medinipur	-	<i>VHR</i>	<i>VHR</i>	-	-	-	<i>VHR</i>	-	3
Puruliya	-	-	-	-	<i>VHR</i>	-	-	-	1
South Twenty-Four Parg	-	<i>VHR</i>	-	-	-	-	-	-	1
Total No of District at Disease risk	5	7	3	3	7	1	7	1	34

If vaccinated, please ignore the disease forecast
Only High Risk (HR) and Very High Risk (VHR) used for alerts

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination coverage for Theileriosis, PPR, Black Quarter, Babesiosis, FMD and HS in VHR districts with scheduled booster doses. Conduct active surveillance and routine testing in HR districts to detect and respond early to outbreaks. Train farmers on disease management, clinical signs, and biosecurity measures to prevent infections.

4. DISEASE RISK COMMUNICATION: FARMERS EMPOWERMENT THROUGH INFORMATION TECHNOLOGY

I. Collaboration with Fruits, Nic, Govt. Of Karnataka

In addition to NADRES V₂ (The National Animal Disease Referral Expert System), ICAR-NIVEDI collaborated with NIC, Govt. of Karnataka, Karnataka State for sending the SMS alerts directly to the farmers who have registered in **FRUITS (Farmers Registration and Unified Beneficiary Information System)**. The information alerts on risk prediction of five livestock diseases were sent through SMS to farmers is presented in Table A. During **December 2024**, a total of **28,60,721** SMS alerts were sent to farmers.

Table A: Number of famers received the SMS alert through FRUITS application during **December-2024**

Disease	Districts	Number of Farmer Received SMS	Disease	Districts	Number of Farmer Received SMS
Anthrax	Bellary	3820	Foot and Mouth Disease	Dakshina Kannada	43181
	Chikkaballapura	48064		Davanagere	36434
	Chitradurga	23489		Gadag	18202
	Davanagere	36434		Hassan	103431
	Haveri	37220		Kodagu	4169
	Kolar	36922		Kolar	36923
	Koppal	22538		Koppal	22538
	Mandya	133840		Mandya	133847
	Raichur	7997		Mysore	141786
	Tumkur	116583		Ramanagara	68440
Black Quarter	Bangalore Rural	42269	Haemorrhagic Septicaemia	Shimoga	48223
	Bidar	13066		Tumkur	116660
	Chitradurga	23489		Udupi	33681
	Davanagere	36434		Uttara Kannada	17268
	Hassan	103431		Chitradurga	17268
	Haveri	37220		Davanagere	36434
	Kodagu	4169		Gadag	18202
	Mandya	133846		Hassan	103431
	Mysore	141779		Haveri	37229
	Raichur	7997		Koppal	22538
	Shimoga	48222		Mysore	141789
	Uttara Kannada	17268		Ramanagara	68440
Foot and Mouth Disease	Yadgir	484		Tumkur	116660
	Bangalore Urban	29376		Uttara Kannada	17269
	Bangalore Rural	42269	Lumpy Skin Disease	Yadgir	484
	Chamarajanagar	33974		Haveri	37231
	Chikkaballapura	48069	Trypanosomosis	Mandya	133848
	Chikmagalur	21653		Gulbarga	9704
	Chitradurga	23489			
TOTAL					28,60,721

II. Distributed Ledger Technology (DLT)

In September 2024, ICAR-NIVEDI expanded its livestock disease risk communication initiative by integrating Distributed Ledger Technology (DLT) from Jio, utilizing the Fast2SMS platform to target veterinary professionals within States. This advanced service is designed to provide veterinarians with real-time, reliable, and secure information on livestock disease outbreaks. By leveraging DLT, the initiative ensures efficient and authenticated dissemination of critical data, enabling frontline veterinary professionals to respond promptly and effectively to emerging disease threats, thereby enhancing livestock health and management across districts.

In September 2024, ICAR-NIVEDI disseminated a total of **1,848** SMS alerts to veterinary professionals in Karnataka, leveraging Distributed Ledger Technology (DLT) for effective communication. By October 2024, the initiative was expanded to include additional states of India, ensuring broader coverage. In November 2024, the service was further scaled to encompass 13 states, significantly enhancing the reach of disease risk communication to veterinarians across these regions. The distribution of SMS alerts during **December 2024** is detailed in Table B, which outlines the number of alerts sent to veterinarians. During this period, a total of **8,478** SMS alerts were successfully disseminated, reinforcing the commitment to providing timely and critical disease risk information to veterinary professionals.

Table B: Number of veterinary doctors received the SMS alert through DLT during **December 2024**

SI No.	State Name	No. of District Risk Predicted	Total SMS Sent
1	Karnataka	28	2203
2	Kerala	14	5031
3	Nagaland	1	4
4	Tamil Nadu	8	20
5	West Bengal	9	1220
TOTAL		60	8,478



ICAR - National Institute of Veterinary Epidemiology and Disease Informatics

Customer/Client Feedback Form

Feedback for the Livestock Diseases Risk Forewarning Bulletin of January-2025, Volume 13 and Issue 01
(Please return this duly fill in after receiving the outbreak report of March-2025)

1. Details of the number of districts with diseases reported vs. forecast in your state.

Sl. No	Disease Name	No. of districts in which outbreaks occurred but not alerted**	Measures taken in case of disease forecasted: Yes or No.**	Any other
Large ruminants' diseases				
1.	Anthrax			
2.	Black Quarter			
3.	Haemorrhagic septicaemia			
4.	Babesiosis			
5.	Fasciolosis			
6.	Foot and mouth diseases			
7.	Lumpy Skin Disease			
8.	Theileriosis			
9.	Trypanosomosis			
Small ruminants' diseases				
1.	Enterotoxaemia			
2.	Bluetongue			
3.	Peste des Petits Ruminants			
4.	Sheep & Goat pox			
Pig diseases				
1.	African Swine Fever			
2.	Classical Swine Fever			

**Details may be written here.

2. What are the preventive measures taken in case of predicted outbreaks?

3. How would you rate your satisfaction with the following aspects of the services you have received or accessed?

Description	Very satisfied	Satisfied	Unsatisfied	Not sure
Quality of services provided				
Timeliness of alerts received				
Benefits from forecasting of livestock diseases				
Your awareness of this service				

4. Suggestions for further improvement of report.

Sign and Signature with Designation

NADEN centre:

Dated:

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