

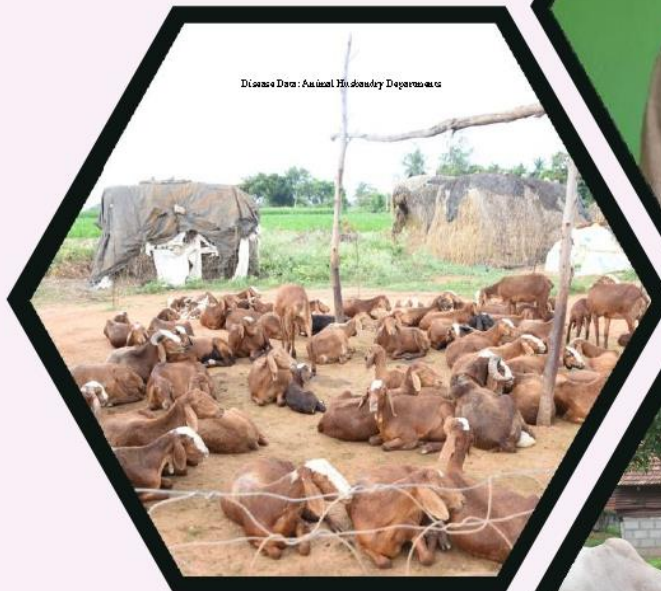


VET-ALERT

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



PREDICTION FOR
APRIL 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

ICAR NIVEDI

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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

[Click here for Methodology – Part 2](#)

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

The livestock disease risk forewarning of **February 2025** predicts that **736** districts across India will face high to very high disease risks in **April 2025**. Jharkhand (201 districts), Uttar Pradesh (105 districts), Assam (98 districts), Kerala (60 districts) and Karnataka (55 districts) are the top five states projected to experience significant outbreaks. The most anticipated diseases include PPR (103 outbreaks), Babesiosis (91 predicted outbreaks), Theileriosis (87 outbreaks), and HS (74 outbreaks). In addition, Jharkhand, Uttara Pradesh, Karnataka, Assam, Haryana, Kerala, Maharashtra, and West Bengal are expected to witness outbreaks of PPR, FMD, S&G Pox, and Black Quarter. 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

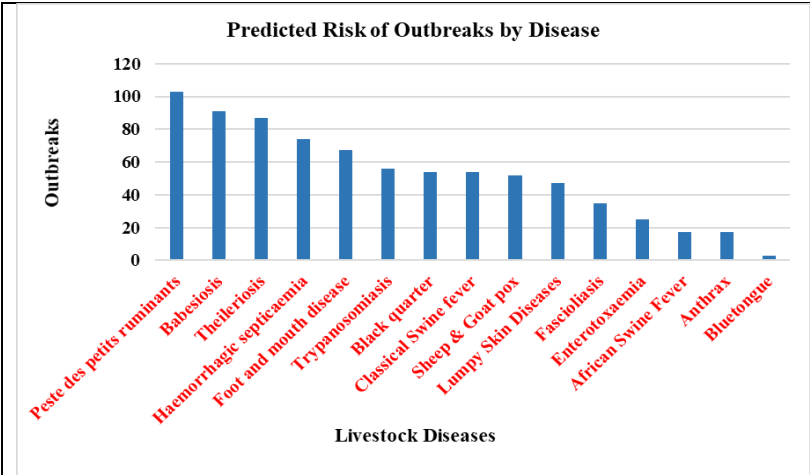


Fig. 1 Predicted Risk of Outbreaks for 15 Livestock Diseases in April 2025

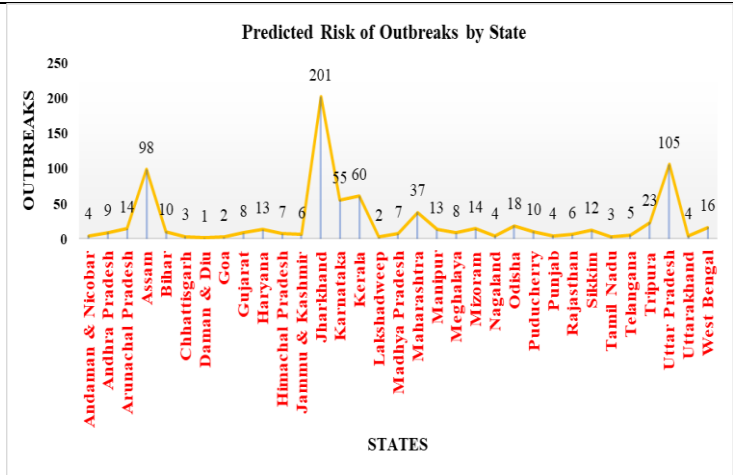


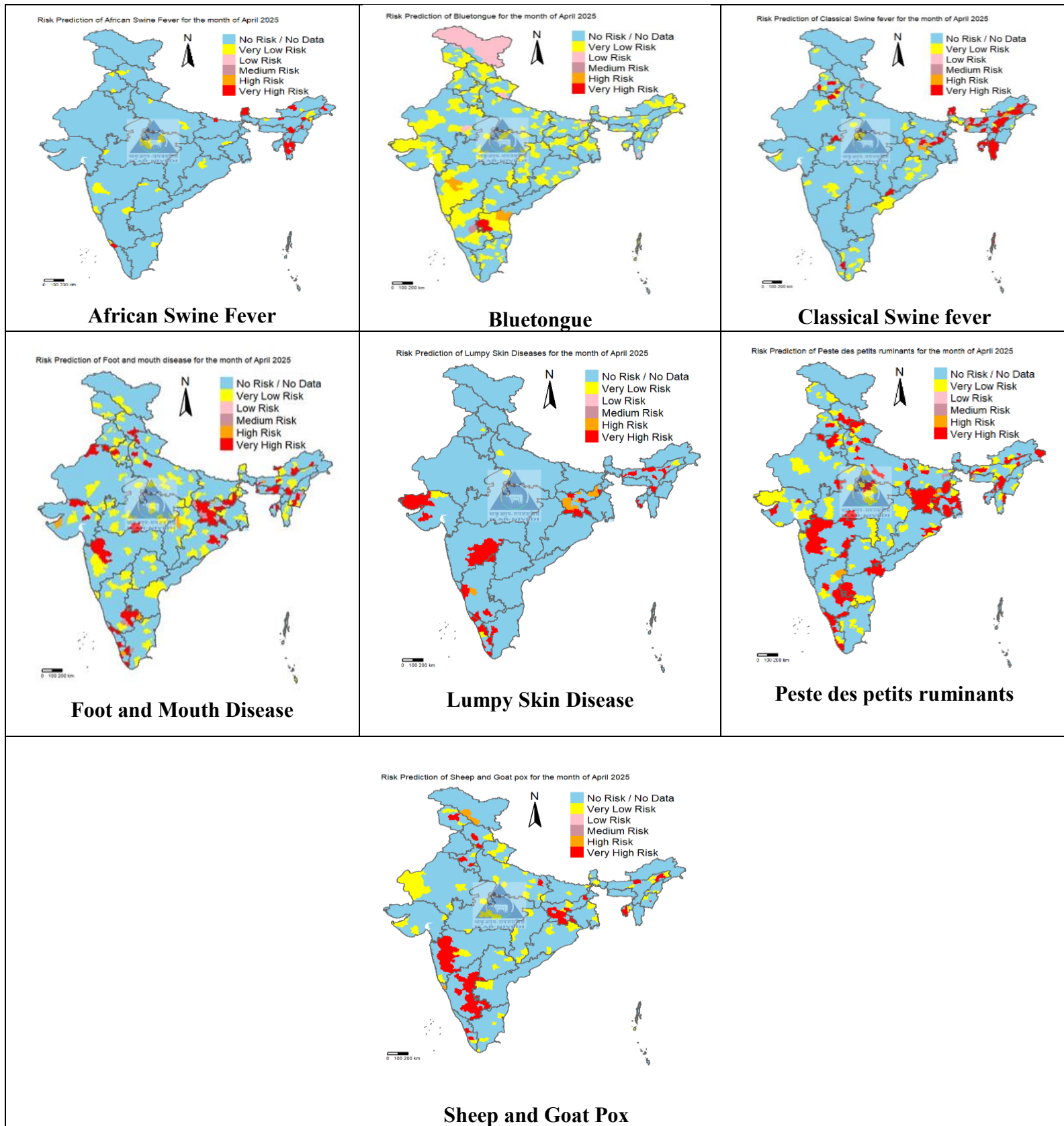
Fig. 2 State-wise Predicted Risk of Livestock Disease Outbreaks for April 2025

II. Total number of predicted High-level risk of outbreaks of disease for different States of India for the month of April 2025

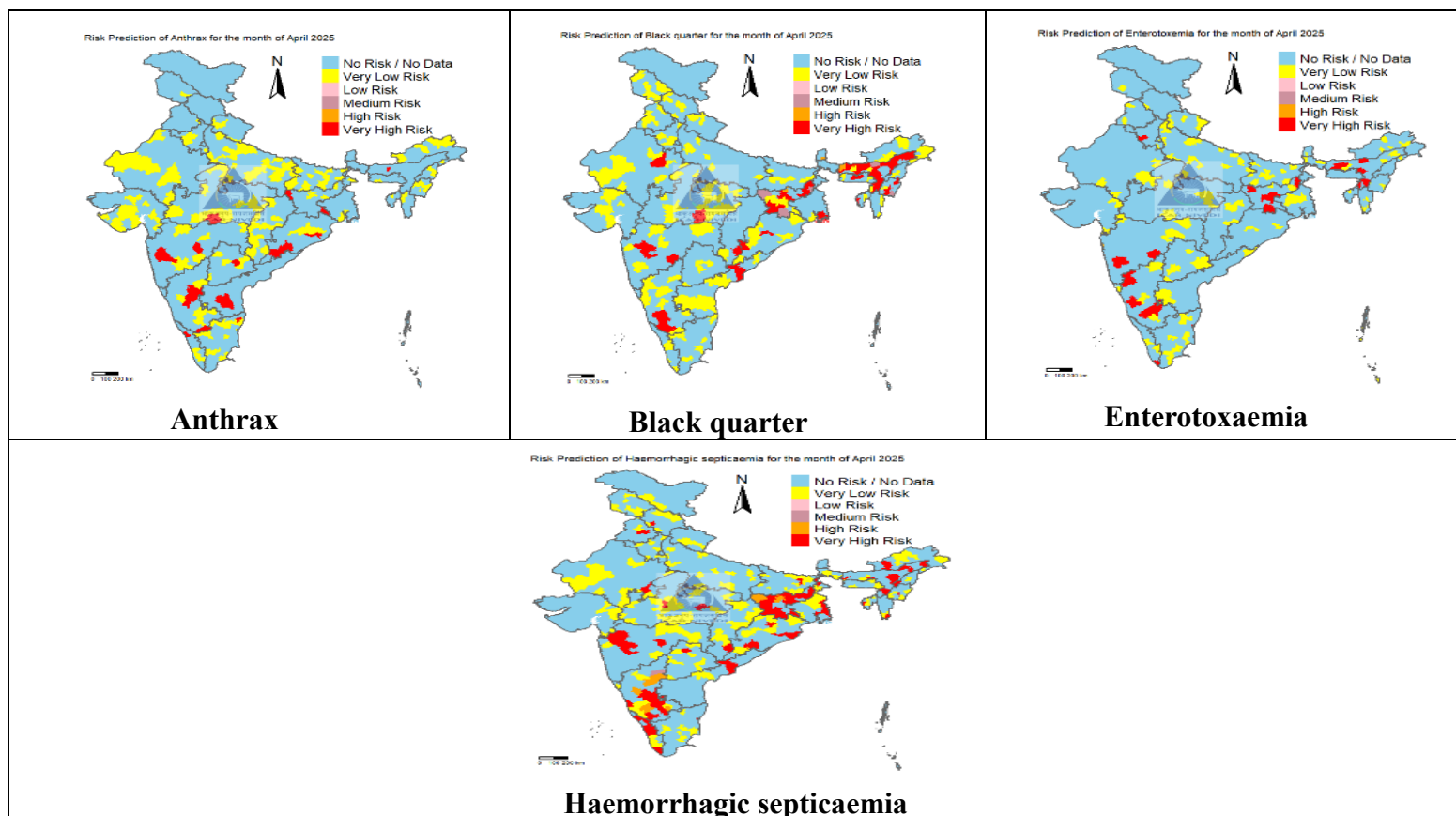
Sl. No.	State Name	Livestock Diseases															districts predicted for Total number of risks of disease
		ASF	Anthrax	Babesiosis	BQ	BT	CSF	ET	Fascioliasis	FMD	HS	LSD	PPR	S&G Pox	Theileriosis	Trypanosomiasis	
1	Andaman & Nicobar	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	4
2	Andhra Pradesh	0	1	0	1	2	0	0	1	0	1	0	3	0	0	0	9
3	Arunachal Pradesh	2	0	0	0	0	3	0	0	4	2	0	3	0	0	0	14
4	Assam	3	1	13	23	0	14	8	2	4	7	9	10	3	1	0	98
5	Bihar	1	0	2	0	0	0	0	0	0	1	0	2	0	2	2	10
6	Chhattisgarh	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	3
7	Daman & Diu	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
8	Goa	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	2
9	Gujarat	0	0	0	0	0	0	0	0	3	0	2	3	0	0	0	8
10	Haryana	0	0	0	0	0	2	1	0	2	0	0	5	2	1	0	13
11	Himachal Pradesh	0	0	0	0	0	0	0	0	1	1	0	3	2	0	0	7
12	Jammu & Kashmir	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6
13	Jharkhand	0	2	24	10	0	8	7	23	16	19	15	22	8	23	24	201
14	Karnataka	0	4	0	4	0	0	4	0	5	11	5	7	15	0	0	55
15	Kerala	1	1	12	0	0	1	1	0	7	7	6	8	2	13	1	60
16	Lakshadweep	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2
17	Madhya Pradesh	0	1	0	1	0	0	0	0	1	2	0	2	0	0	0	7
18	Maharashtra	0	2	0	2	1	0	3	0	2	3	7	8	5	4	0	37
19	Manipur	0	0	0	4	0	0	0	1	6	1	0	0	1	0	0	13
20	Meghalaya	0	0	0	1	0	3	0	0	4	0	0	0	0	0	0	8
21	Mizoram	4	0	0	0	0	8	0	0	0	1	0	1	0	0	0	14
22	Nagaland	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	4
23	Odisha	0	3	0	2	0	1	0	0	3	5	0	3	0	1	0	18
24	Puducherry	0	0	3	0	0	0	1	1	1	1	0	1	1	1	0	10
25	Punjab	0	0	0	0	0	2	0	0	0	1	0	1	0	0	0	4
26	Rajasthan	0	0	0	1	0	1	0	0	1	2	0	1	0	0	0	6
27	Sikkim	4	0	2	1	0	3	0	0	0	0	0	1	0	1	0	12
28	Tamil Nadu	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	3
29	Telangana	0	1	0	0	0	1	0	0	0	1	0	1	1	0	0	5
30	Tripura	0	0	1	1	0	6	0	4	2	1	2	2	4	0	0	23
31	Uttar Pradesh	0	0	31	0	0	0	0	0	2	0	0	6	1	36	29	105
32	Uttarakhand	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	4
33	West Bengal	0	0	2	1	0	0	0	0	0	4	0	7	0	2	0	16
Total number of districts likely for risk of disease		17	17	91	54	3	54	25	35	67	74	47	103	52	87	56	782

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

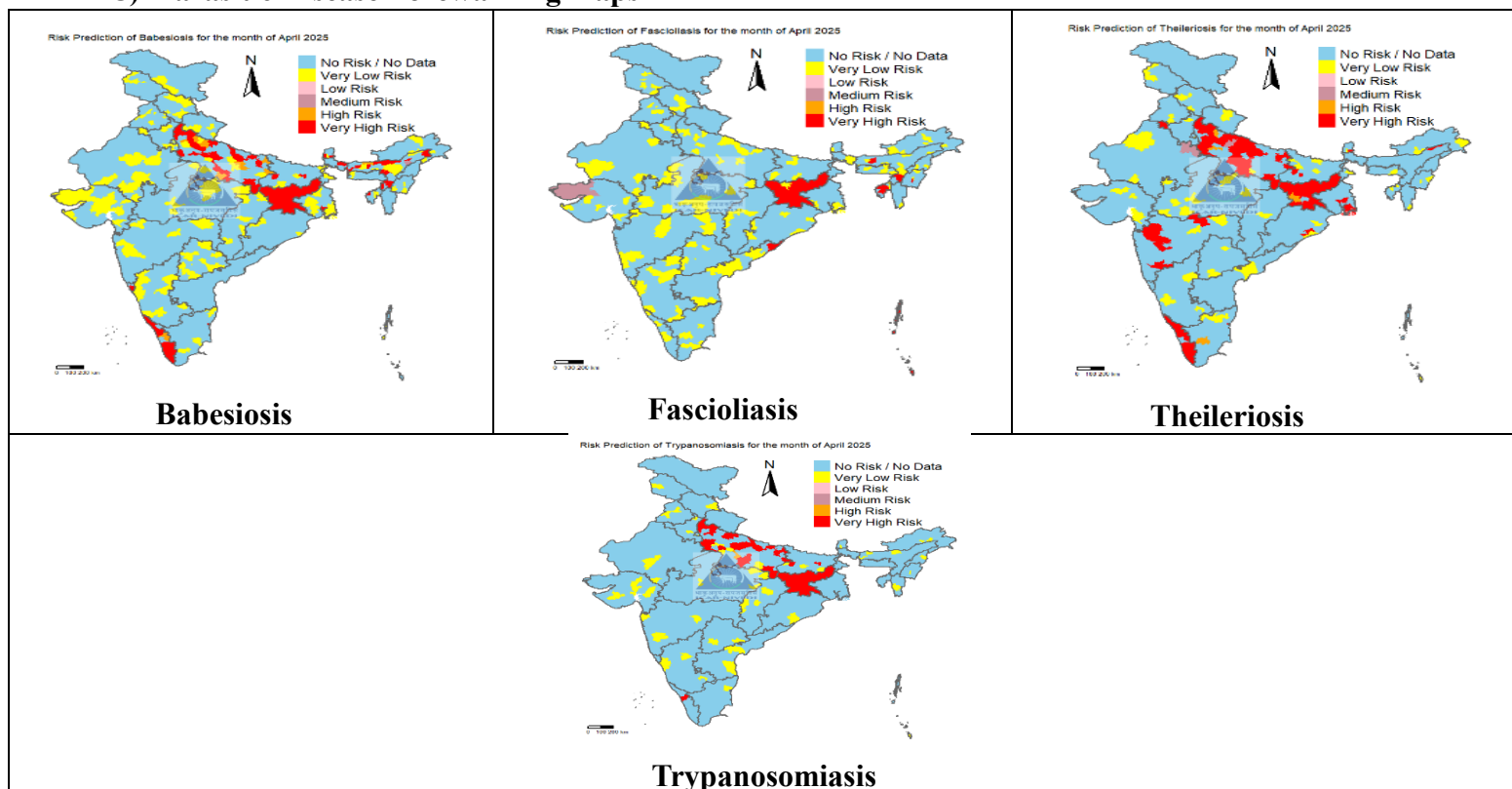
A) Viral Disease Forewarning Maps



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 APRIL 2025

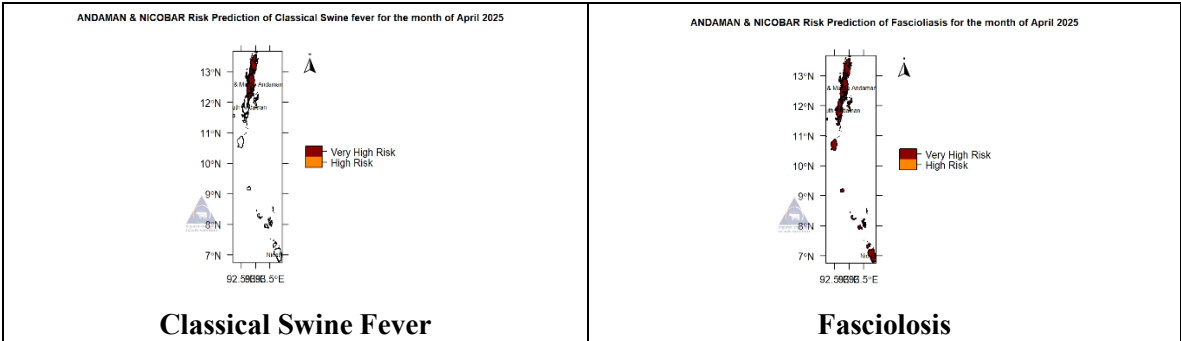
3.1. Andaman and Nicobar

The livestock disease forecast for **Andaman and Nicobar** for **April 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, 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 April 2025

SI. No.	Disease Name	Number of districts predicted	Names of Districts
1	Classical Swine Fever	One	North & Middle Andaman
2	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 April 2025 for Andaman and Nicobar

Districts of Andaman and Nicobar	Livestock Diseases		
	CSF	Fasciolosis	Total No of Disease Risk per District
Nicobars	-	VHR	1
North & Middle Andaman	VHR	VHR	2
South Andaman	-	VHR	1
Total No of District at Disease Risk	1	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

Implement prophylactic treatment for Fasciolosis with Routine testing in VHR districts for early disease detection. Additionally, ensure timely treatment of infected animals, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

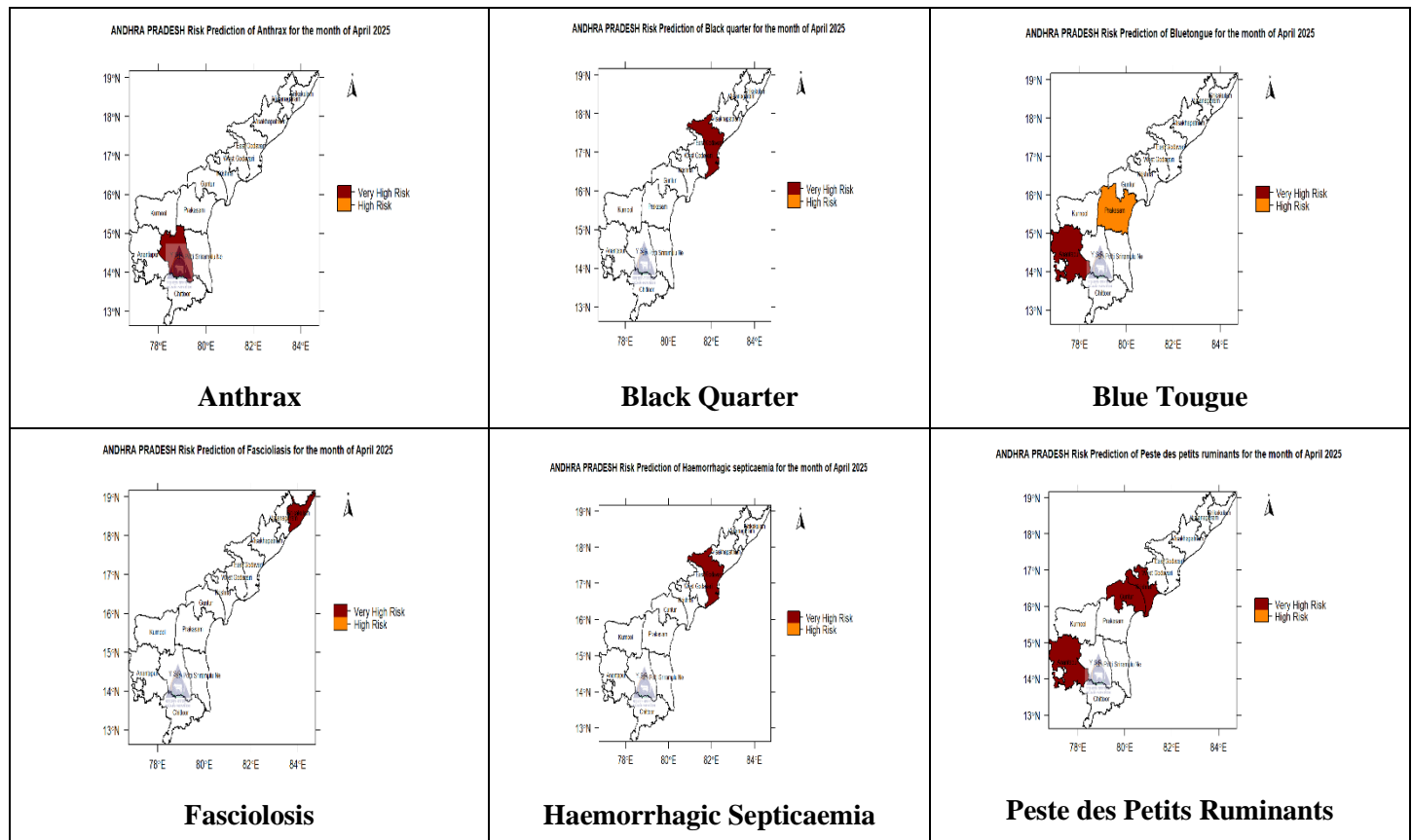
3.2. Andhra Pradesh

The livestock disease forecast for **Andhra Pradesh** for **April 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, Peste des Petits Ruminants (3 districts) and Blue Tongue (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 Andhra Pradesh during April 2025

SI. No.	Disease Name	Number of districts predicted	Names of Districts
1	Anthrax	One	Y.S.R.
2	Black Quarter	One	East Godavari
3	Blue Tongue	Two	Anantapur and Prakasam
4	Fasciolosis	One	Srikakulam
5	Haemorrhagic Septicaemia	One	East Godavari
6	Peste des Petits Ruminants	Three	Anantapur, Guntur and Krishna

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 the month of April 2025 for Andhra Pradesh

Districts of Andhra Pradesh	Livestock Diseases						
	Anthrax	BQ	BT	Fasciolosis	HS	PPR	Total No of Disease Risk per District
Anantapur	-	-	<i>VHR</i>	-	-	<i>VHR</i>	2
East Godavari	-	<i>VHR</i>	-	-	<i>VHR</i>	-	2
Guntur	-	-	-	-	-	<i>VHR</i>	1
Krishna	-	-	-	-	-	<i>VHR</i>	1
Prakasam	-	-	<i>HR</i>	-	-	-	1
Srikakulam	-	-	-	<i>VHR</i>	-	-	1
Y.S.R.	<i>VHR</i>	-	-		-	-	1
Total No of District at Disease Risk	1	1	2	1	1	3	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 coverage for PPR, Anthrax, and BT in VHR districts with scheduled booster doses. Additionally, ensure timely treatment of infected animals, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

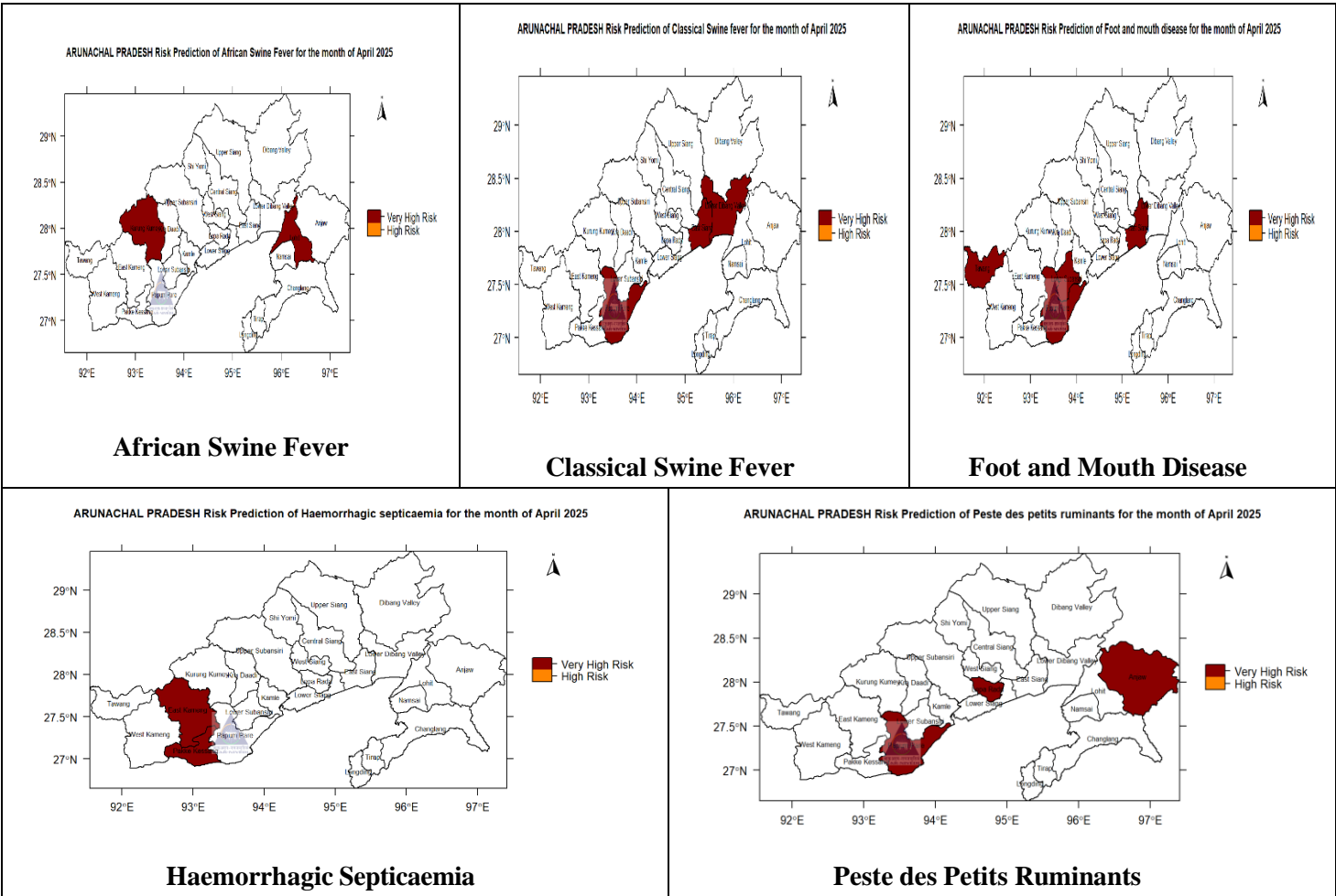
3.3 Arunachal Pradesh

The livestock disease forecast for **Arunachal Pradesh** for **April 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 (4 districts), Classical Swine Fever (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 Arunachal Pradesh during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	Two	Kurung Kumey and Lohit
2	Classical Swine Fever	Three	East Siang, Lower Dibang Valley and Papum Pare
3	Foot and Mouth Disease	Four	East Siang, Lower Subansiri, Papum Pare and Tawang
4	Haemorrhagic Septicaemia	Two	East Kameng and Pakke Kessang
5	Peste des Petits Ruminants	Three	Anjaw, Lepa Rada and 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 April 2025 for Arunachal Pradesh

Districts of Arunachal Pradesh	Livestock Diseases					
	ASF	CSF	FMD	HS	PPR	Total No of Disease Risk per District
Anjaw	-	-	-	-	<i>VHR</i>	1
East Kameng	-	-	-	<i>VHR</i>	-	1
East Siang	-	<i>VHR</i>	<i>VHR</i>	-	-	2
Kurung Kumey	<i>VHR</i>	-	-	-	-	1
Lepa Rada	-	-	-	-	<i>VHR</i>	1
Lohit	<i>VHR</i>	-	-	-	-	1
Lower Dibang Valley	-	<i>VHR</i>	-	-	-	1
Lower Subansiri	-	-	<i>VHR</i>	-	-	1
Pakke Kessang	-	-	-	<i>VHR</i>	-	1
Papum Pare	-	<i>VHR</i>	<i>VHR</i>	-	<i>VHR</i>	3
Tawang	-		<i>VHR</i>	-	-	1
Total No of District at Disease Risk	2	3	4	2	3	14

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, PPR, HS and FMD in VHR districts with scheduled boosters, conduct active surveillance and routine testing in VHR districts. Additionally, ensure timely treatment of infected animals, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

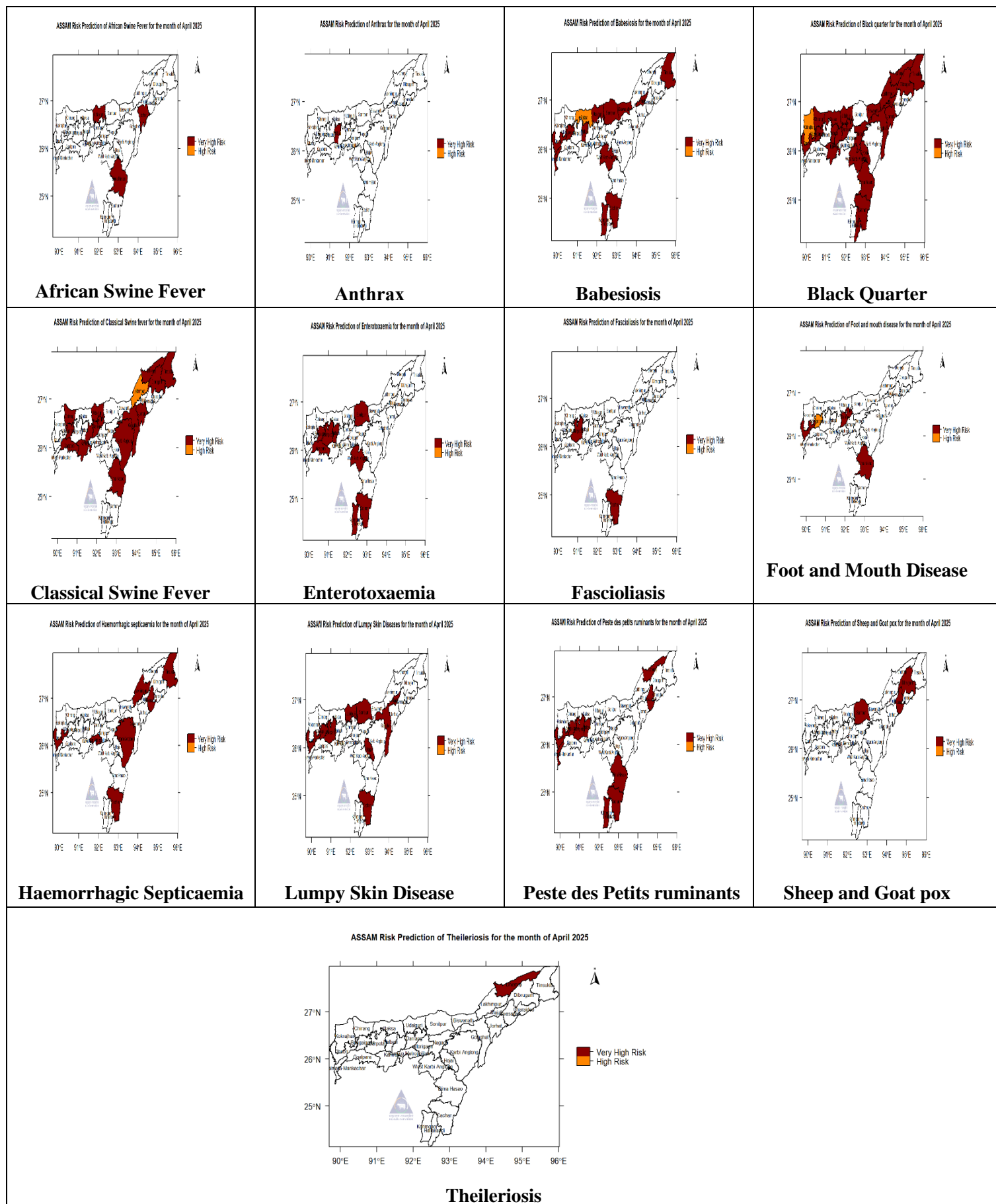
3.4. Assam

The livestock disease forecast for **Assam** for **April 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **13** major diseases. Among these, Black Quarter (23 districts), Classical Swine Fever (14 districts), Babesiosis (13 districts), Peste des Petits Ruminants (10 districts) and Enterotoxaemia (8 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 April 2025

SI. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	Three	Dima Hasao, Jorhat and Udalguri
2	Anthrax	One	Nalbari
3	Babesiosis	Thirteen	Baksa, Biswanath, Bongaigaon, Cachar, Dhubri, Karimganj, Majuli, Nalbari, Sonitpur, South Salmara-Mankachar, Tinsukia, Udalguri and West Karbi Anglong
4	Black Quarter	Twenty-Three	Baksa, Biswanath, Bongaigaon, Cachar, Chirang, Darrang, Dhemaji, Dhubri, Dibrugarh, Dima Hasao, Golaghat, Hailakandi, Hojai, Jorhat, Kamrup, Kokrajhar, Lakhimpur, Majuli, Nagaon, Nalbari, Tinsukia, Udalguri and West Karbi Anglong
5	Classical Swine Fever	Fourteen	Bongaigaon, Chirang, Darrang, Dhemaji, Dibrugarh, Dima Hasao, Goalpara, Golaghat, Jorhat, Kamrup, Karbi Anglong, Lakhimpur, Tinsukia and Udalguri
6	Enterotoxaemia	Eight	Barpeta, Bongaigaon, Cachar, Goalpara, Karimganj, Nalbari, Sonitpur and West Karbi Anglong
7	Fascioliasis	Two	Barpeta and Cachar
8	Foot and Mouth Disease	Four	Bongaigaon, Darrang, Dhubri and Dima Hasao
9	Haemorrhagic Septicaemia	Seven	Cachar, Dhubri, Kamrup Metropolitan, Karbi Anglong, Lakhimpur, Sivasagar and Tinsukia
10	Lumpy Skin Diseases	Nine	Barpeta, Bongaigaon, Cachar, Dhubri, Golaghat, Hojai, Majuli, Sonitpur and Udalguri
11	Peste des Petits Ruminants	Ten	Barpeta, Bongaigaon, Cachar, Dhemaji, Dhubri, Dima Hasao, Karimganj, Nalbari, Sivasagar and South Salmara-Mankachar
12	Sheep & Goat pox	Three	Dibrugarh, Sivasagar and Sonitpur
13	Theileriosis	One	Dhemaji

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 the month of April 2025 for Assam

Districts of Assam	Livestock Diseases													
	ASF	Anthr ax	Babesi osis	BQ	CSF	ET	Fasciola sis	FMD	HS	LSD	PPR	S&G pox	Theil eriosi s	Total No of Disease Risk per District
Baksa	-	-	HR	VHR	-	-	-	-	-			-	-	2
Barpeta	-	-	-	-	-	VHR	VHR	-	-	VHR	VHR	-	-	4
Biswanath	-	-	VHR	VHR	-	-	-	-	-	-	-	-	-	2
Bongaigaon	-	-	VHR	VHR	VHR	VHR	-	HR	-	VHR	VHR	-	-	7
Cachar	-	-	VHR	VHR		VHR	VHR	-	VHR	VHR	VHR	-	-	7
Chirang	-	-	-	VHR	VHR	-	-	-	-	-	-	-	-	2
Darrang	-	-	-	VHR	VHR	-	-	VHR	-	-	-	-	-	3
Dhemaji	-	-	-	VHR	VHR	-	-		-	-	VHR	-	VHR	4
Dhubri	-	-	VHR	VHR		-	-	VHR	VHR	VHR	VHR	-	-	6
Dibrugarh	-	-		VHR	VHR	-	-		-	-	-	VHR	-	3
Dima Hasao	VHR	-	-	VHR	VHR	-	-	VHR	-	-	VHR	-	-	5
Goalpara	-	-	-		VHR	VHR	-	-	-	-	-	-	-	2
Golaghat	-	-	-	VHR	VHR	-	-	-	-	VHR	-	-	-	3
Hailakandi	-	-	-	VHR		-	-	-	-	-	-	-	-	1
Hojai	-	-	-	VHR		-	-	-	-	VHR	-	-	-	2
Jorhat	VHR	-	-	VHR	VHR	-	-	-	-	-	-	-	-	3
Kamrup	-	-		VHR	VHR	-	-	-	-	-	-	-	-	2
Kamrup Metropolitan	-	-	-	-	-	-	-	-	VHR	-	-	-	-	1
Karbi Anglong	-	-	-	-	VHR	-	-	-	VHR	-	-	-	-	2
Karimganj	-	-	VHR			VHR	-	-	-	-	VHR	-	-	3
Kokrajhar	-	-		HR		-	-	-	-	-	-	-	-	1
Lakhimpur	-	-		VHR	HR	-	-	-	VHR	-	-	-	-	3
Majuli	-	-	VHR	VHR	-	-	-	-	-	VHR	-	-	-	3
Nagaon	-	-		VHR	-	-	-	-	-	-	-	-	-	1
Nalbari	-	VHR	VHR	VHR	-	VHR	-	-	-	-	VHR	-	-	4
Sivasagar	-	-	-	-	-	-	-	-	VHR	-	VHR	VHR	-	3
Sonitpur	-	-	VHR		-	VHR	-	-		VHR		VHR	-	4
South Salmara-Mankachar	-	-	VHR		-	-	-	-	-	-	VHR	-	-	2
Tinsukia	-	-	VHR	VHR	VHR	-	-		VHR		-	-	-	4

Udalguri	VHR		VHR	VHR	VHR	-	-	-	-	VHR	-	-	-	5
West Karbi Anglong	-	-	VHR	VHR		VHR	-	-	-		-	-	-	3
Total No of District at Disease Risk	3	1	13	24	14	8	2	4	2	9	10	3	1	98

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 with timely boosters for Black quarter, CSF, PPR, S&G pox, Enterotoxaemia and implement prophylactic treatment for Babesiosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

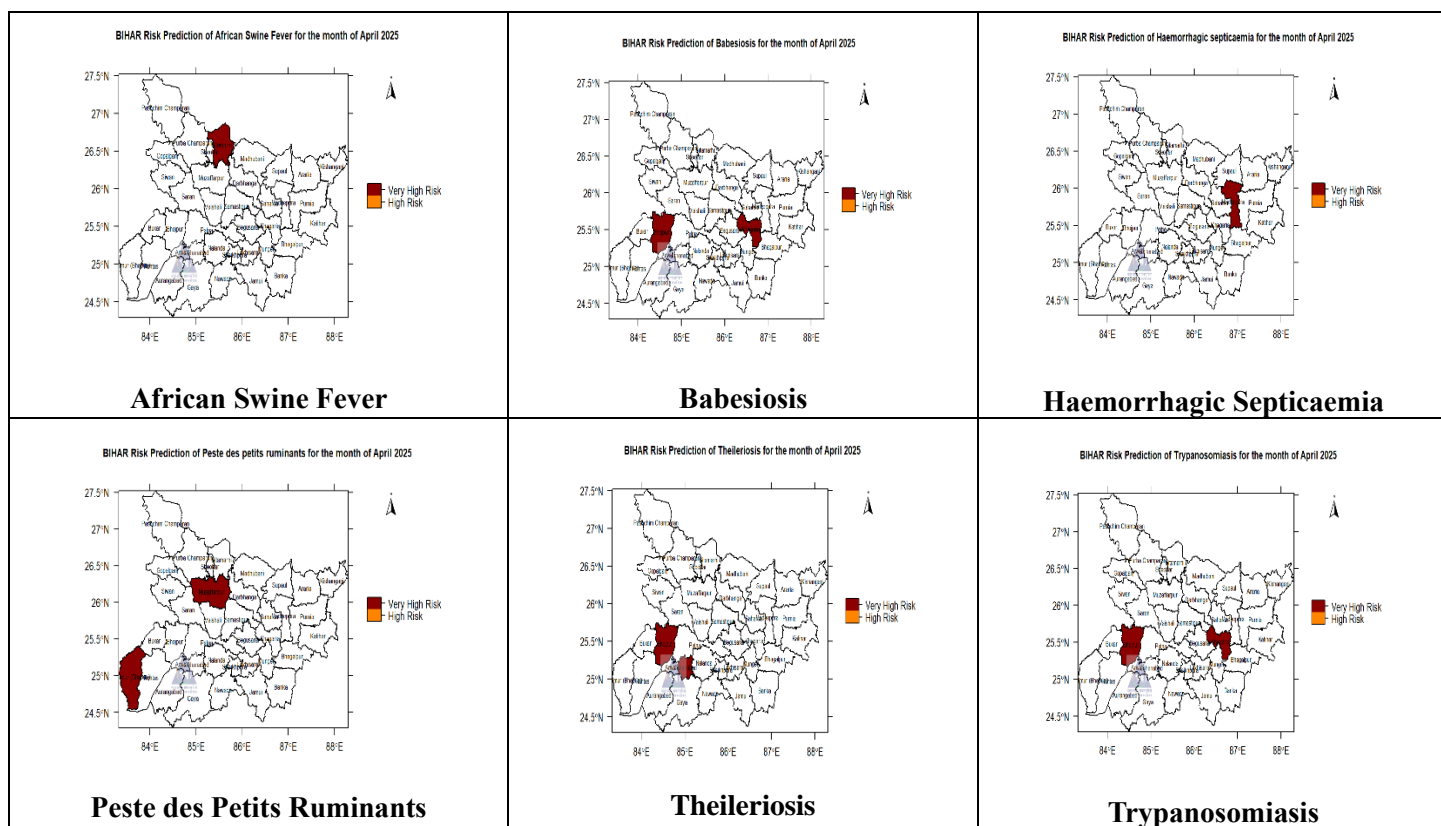
3.5. Bihar

The livestock disease forecast for **Bihar** for **April 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, Babesiosis (2 districts), Peste des Petits ruminants (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 April 2025

SI. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	One	Sitamarhi
2	Babesiosis	Two	Bhojpur and Khagaria
3	Haemorrhagic Septicaemia	One	Madhepura
4	Peste des Petits Ruminants	Two	Kaimur (Bhabua) and Muzaffarpur
5	Theileriosis	Two	Bhojpur and Jehanabad
6	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 the month of April 2025 for Bihar

Districts of Bihar	Livestock Diseases						
	ASF	Babesiosis	HS	PPR	Theileriosis	Trypanosomosis	Total No of Disease Risk per District
Bhojpur	-	<i>VHR</i>	-	-	<i>VHR</i>	<i>VHR</i>	3
Jehanabad	-	-	-	-	<i>VHR</i>	-	1
Kaimur (Bhabua)	-	-	-	<i>VHR</i>	-	-	1
Khagaria	-	<i>VHR</i>	-		-	<i>VHR</i>	2
Madhepura	-	-	<i>VHR</i>		-	-	1
Muzaffarpur	-	-	-	<i>VHR</i>	-	-	1
Sitamarhi	<i>VHR</i>	-	-		-	-	1
Total No of District at Disease Risk	1	2	1	2	2	2	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 with timely boosters for PPR, Theileriosis and implement prophylactic treatment for Babesiosis and Trypanosomosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

3.6. Chandigarh

The livestock disease forecast for **Chandigarh** for **April 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 April 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 the month of April 2025 for Chandigarh
No disease table

IV. Risk Mitigation/Risk communication Strategies

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.

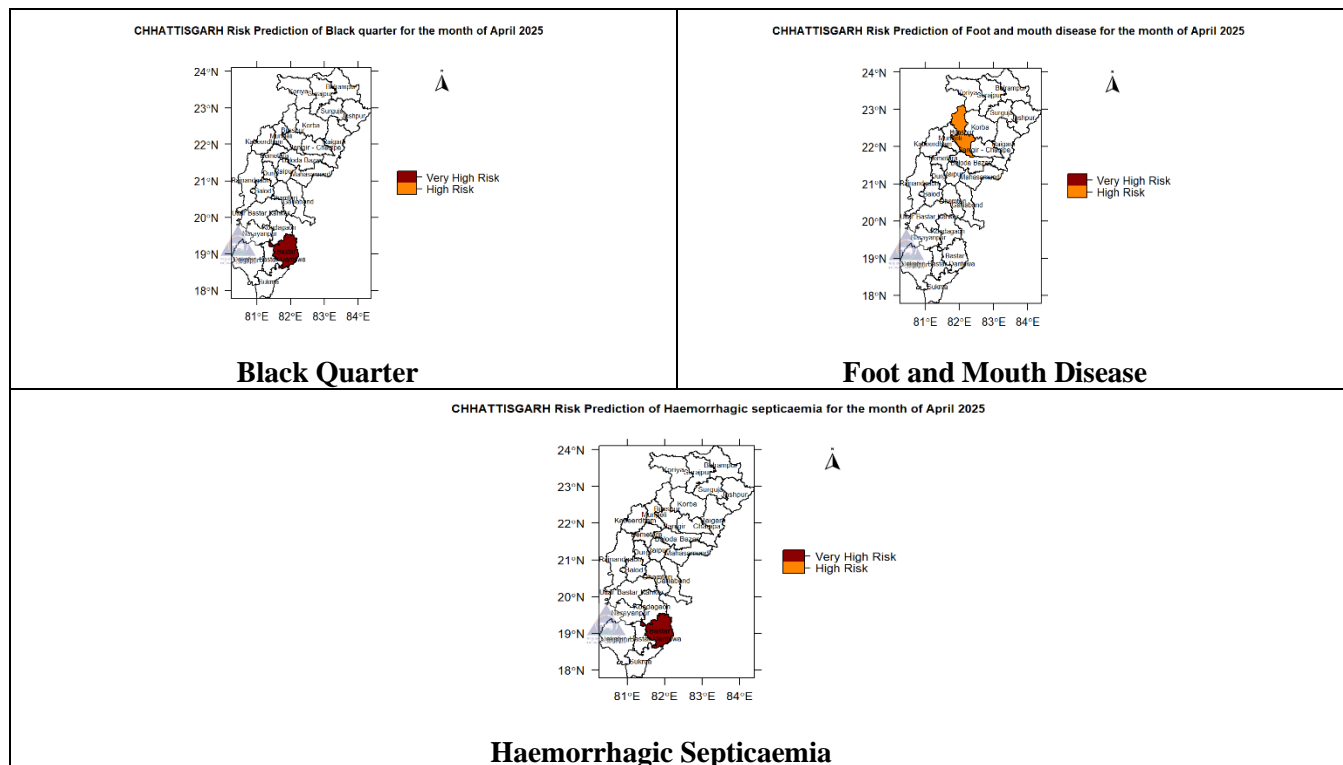
3.7. Chhattisgarh

The livestock disease forecast for **Chhattisgarh** for **April 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 (1 districts), Black Quarter (1 district) and Haemorrhagic Septicaemia (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 Chhattisgarh during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Black Quarter	One	Bastar
2	Foot and Mouth Disease	One	Bilaspur
3	Haemorrhagic Septicaemia	One	Bastar

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 the month of April 2025 for Chhattisgarh

Districts of Chhattisgarh	Livestock Diseases			
	BQ	FMD	HS	Total No of Disease Risk per District
Bastar	<i>VHR</i>	-	<i>VHR</i>	2
Bilaspur	-	<i>HR</i>	-	1
Total No of District at Disease Risk	1	1	1	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 BQ, FMD and HS in VHR districts with scheduled boosters, conduct active surveillance and testing in HR districts. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

3.8. Dadra and Nagar Haveli

The livestock disease forecast for **Dadra and Nagar Haveli** for **April 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 Dadra and Nagar Haveli during April 2025**
No Table
- II. Disease-Specific Risk Mapping: Predicted High and Very High-Risk Levels in Different Districts of Dadra and Nagar Haveli**
No Risk Map
- III. District-Wise Risk Assessment for Livestock Disease Forewarning for the month of April 2025 for Dadra and Nagar Haveli** No Table

IV. Risk Mitigation/Risk communication Strategies

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.

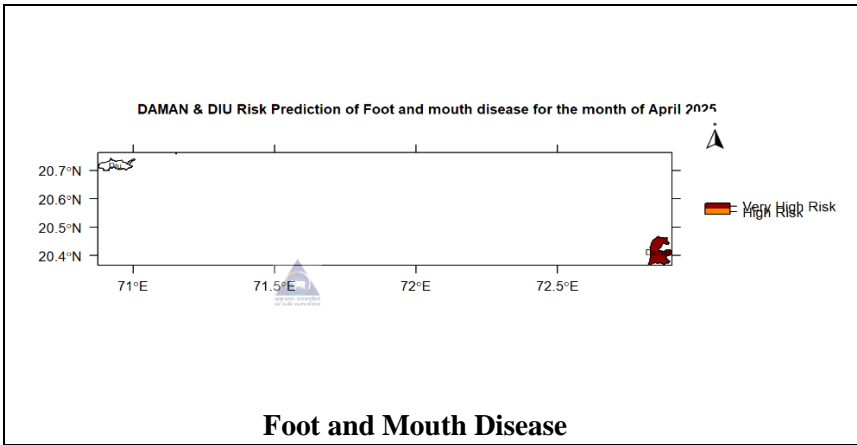
3.9. Daman and Diu

The livestock disease forecast for **Daman and Diu** for **April 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 Daman and Diu during April 2025

SI. No.	Disease Name	Number of districts predicted	Names of Districts
1	Foot and Mouth Disease	One	Daman

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 the month of April 2025 for Daman and

Districts of Daman and Diu	Livestock Diseases	
	Foot and Mouth Disease	Total No of Disease Risk per District
Daman	VHR	1
Diu	-	0
Total No of District at Disease Risk	1	1

Diu

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 Foot and Mouth Disease VHR districts with scheduled boosters, conduct active surveillance and testing in VHR districts. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

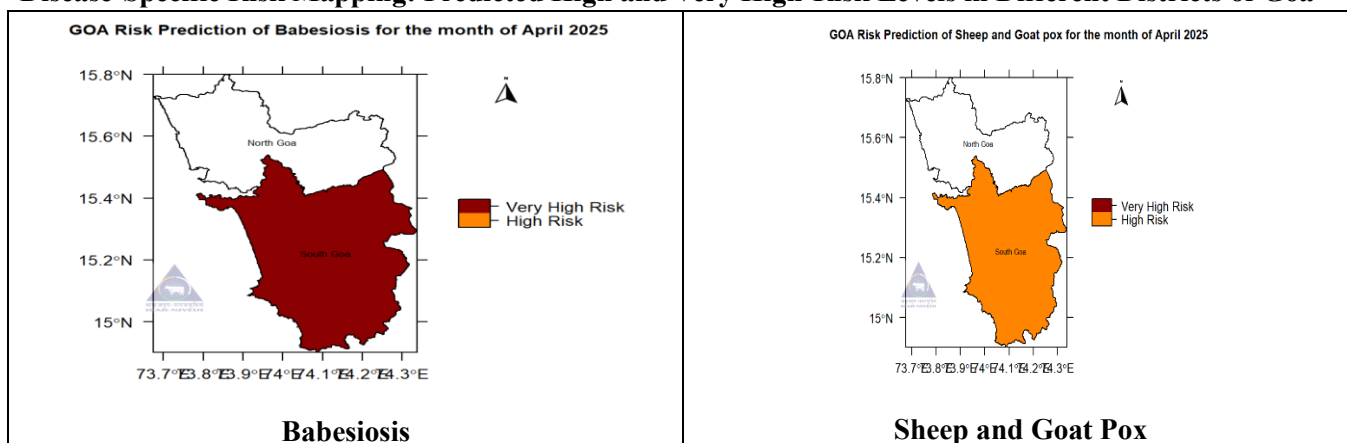
3.10. Goa

The livestock disease forecast for **Goa** for **April 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, Babesiosis (1 district) and 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 Goa during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	One	South Goa
2	Sheep and Goat Pox	One	South 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 the month of April 2025 for Goa

Districts of Goa	Livestock Diseases		
	Babesiosis	S&G pox	Total No of Disease Risk per District
North Goa	-	-	0
South Goa	<i>VHR</i>	<i>HR</i>	2
Total No of District at Disease Risk	1	1	2

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 with timely boosters for S & G pox and implement prophylactic treatment for Babesiosis and Trypanosomosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

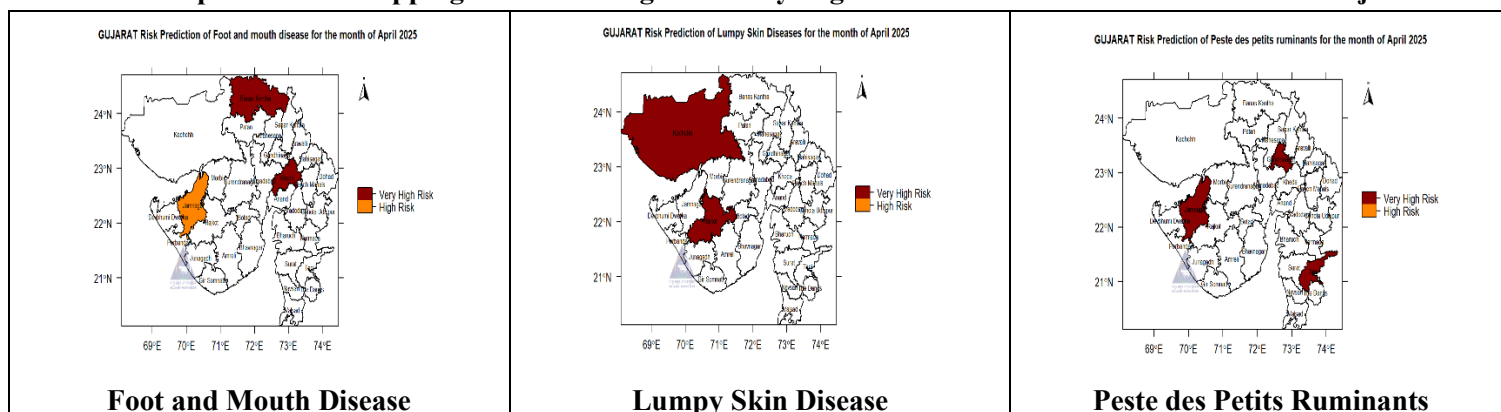
3.11. Gujarat

The livestock disease forecast for **Gujarat** for **April 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 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 Disease with High Predicted Risk in Different Districts of Gujarat during April 2025

SI. No.	Disease Name	Number of districts predicted	Names of Districts
1	Foot and Mouth Disease	Three	Banas Kantha, Jamnagar and Kheda
2	Lumpy skin Disease	Two	Kachchh and Rajkot
3	Peste des Petits Ruminants	Three	Gandhinagar, Jamnagar and Tapi

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 the month of April 2025 for Gujarat

Districts of Gujarat	Livestock Diseases			
	FMD	LSD	PPR	Total No of district risk per district
Banas Kantha	<i>VHR</i>	-	-	1
Gandhinagar	-	-	<i>VHR</i>	1
Jamnagar	<i>HR</i>	-	<i>VHR</i>	2
Kachchh	-	<i>VHR</i>	-	1
Kheda	<i>VHR</i>	-	-	1
Rajkot	-	<i>VHR</i>	-	1
Tapi	-	-	<i>VHR</i>	1
Total No of District at Disease Risk	3	2	3	8

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 with timely boosters for PPR, Theileriosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

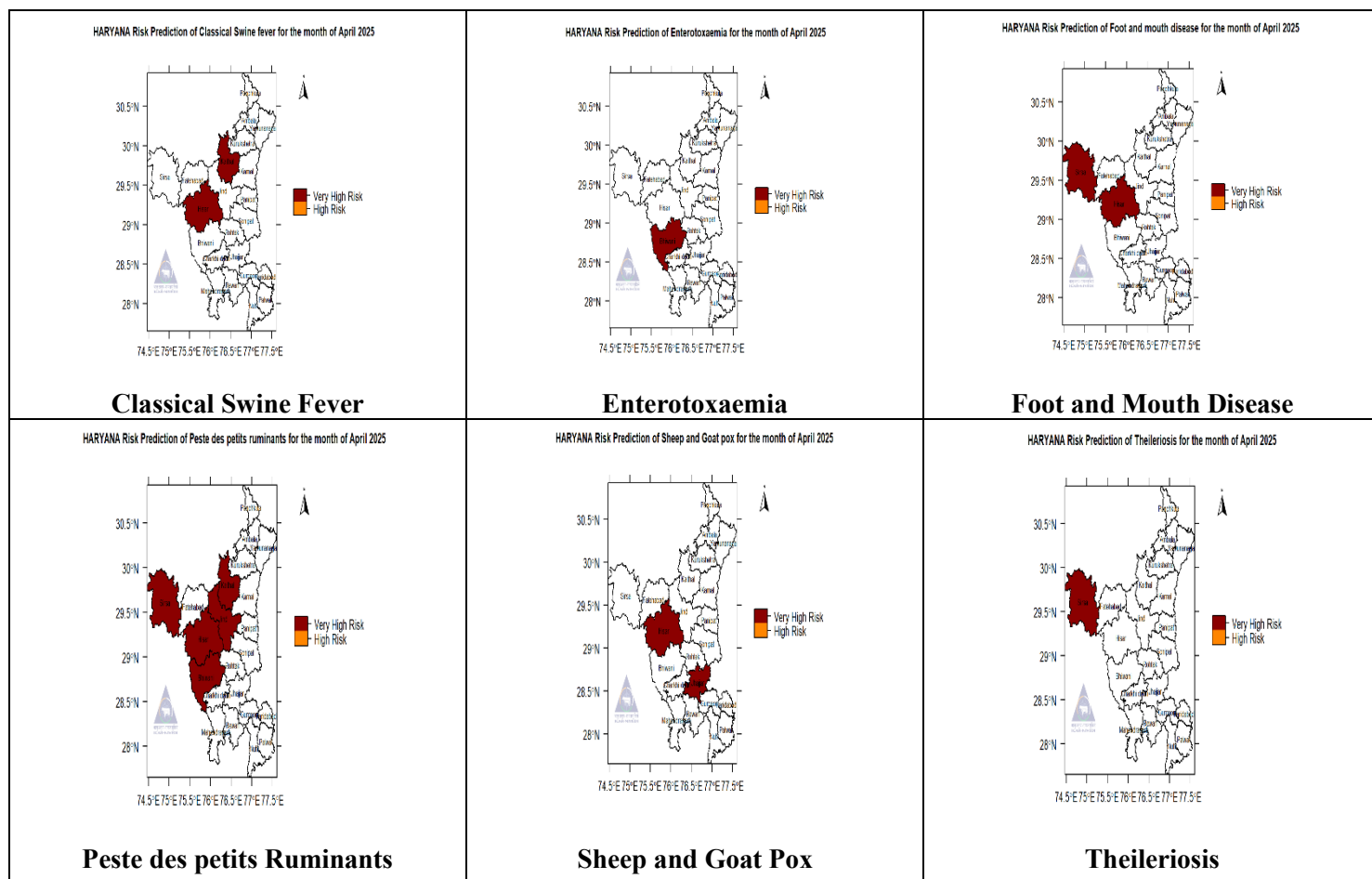
3.12. Haryana

The livestock disease forecast for **Haryana** for **April 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, Peste des Petits Ruminants (5 districts), Classical Swine Fever (2 districts) and Foot and Mouth Disease (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 Haryana during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Classical Swine Fever	Two	Hisar and Kaithal
2	Enterotoxaemia	One	Bhiwani
3	Foot and Mouth Disease	Two	Hisar and Sirsa
4	Peste des Petits Ruminants	Five	Bhiwani, Hisar, Jind, Kaithal and Sirsa
5	Sheep and Goat Pox	Two	Hisar and Jhajjar
6	Theileriosis	One	Sirsa

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 the month of April 2025 for Haryana

Districts of Haryana	Livestock Diseases						Total No of district risk per district
	CSF	ET	FMD	PPR	S&G Pox	Theileriosis	
Bhiwani	-	<i>VHR</i>	-	<i>VHR</i>	-	-	2
Hisar	<i>VHR</i>	-	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	-	4
Jhajjar	-	-	-	-	<i>VHR</i>	-	1
Jind	-	-	-	<i>VHR</i>	-	-	1
Kaithal	<i>VHR</i>	-	-	<i>VHR</i>	-	-	2
Sirsa	-	-	<i>VHR</i>	<i>VHR</i>	-	<i>VHR</i>	3
Total No of district at disease risk	2	1	2	5	2	1	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 with timely boosters for PPR, Theileriosis, S & G pox, CSF, ET and FMD alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

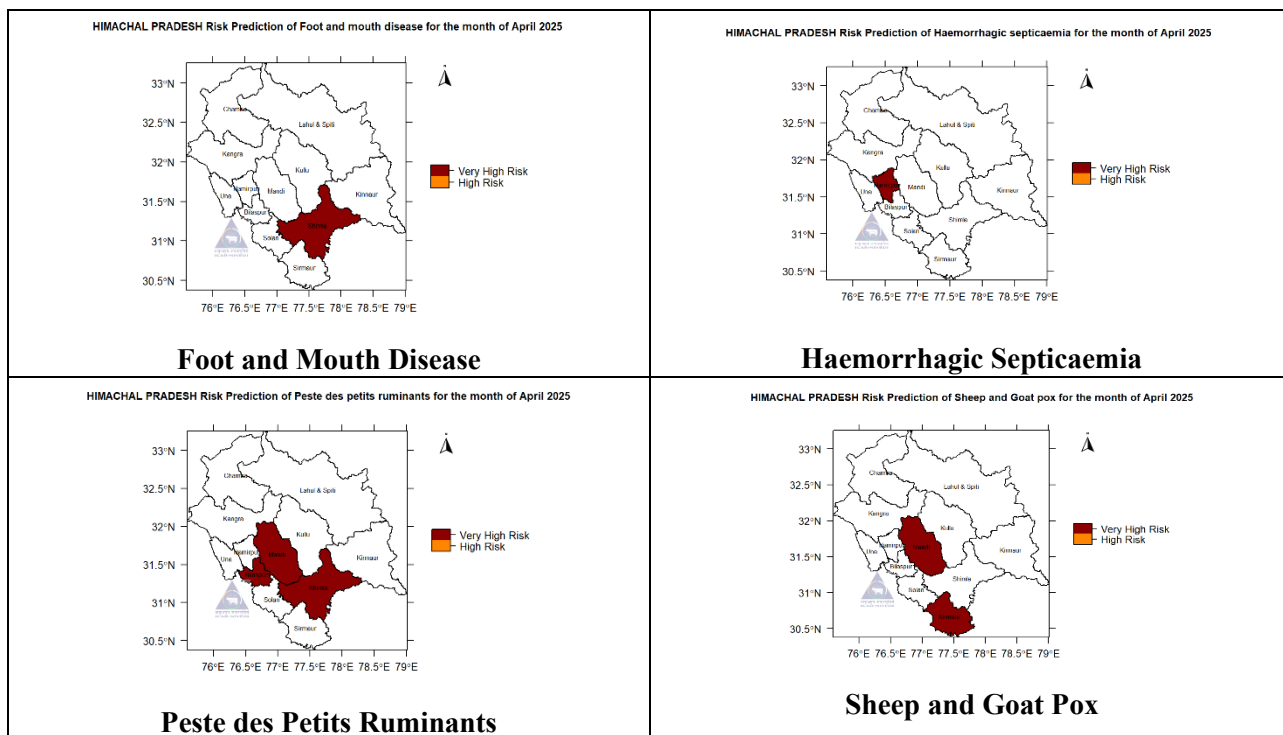
3.13. Himachal Pradesh

The livestock disease forecast for **Himachal Pradesh** for **April 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, Peste des Petits Ruminants (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 Diseases with High Predicted Risk in Different Districts of Himachal Pradesh during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Foot and Mouth Disease	One	Shimla
2	Haemorrhagic Septicaemia	One	Hamirpur
3	Peste des Petits Ruminants	Three	Bilaspur, Mandi and Shimla
4	Sheep & Goat Pox	Two	Mandi and Sirmaur

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 the month of April 2025 for Himachal Pradesh

Districts of Himachal Pradesh	Livestock Diseases				
	FMD	HS	PPR	S&G Pox	Total No of district risk per district
Bilaspur	-	-	VHR	-	1
Hamirpur	-	VHR	-	-	1
Mandi	-	-	VHR	VHR	2
Shimla	VHR	-	VHR	-	2
Sirmaur	-	-	-	VHR	1
Total No of district at disease risk	1	1	3	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 with timely boosters for PPR, Theileriosis, S & G pox, CSF, ET and FMD alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

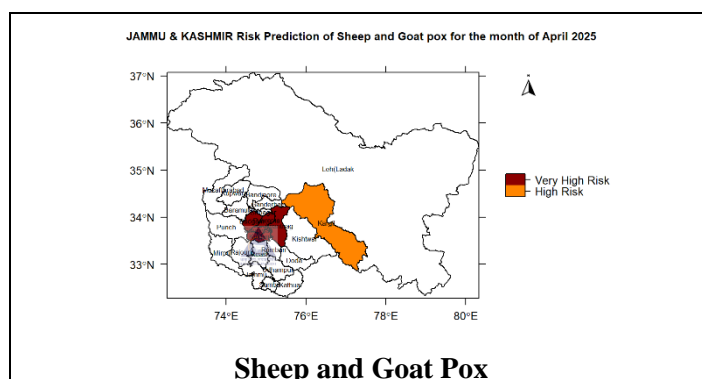
3.14. Jammu and Kashmir

The livestock disease forecast for **Jammu and Kashmir** for **April 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 (6 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 April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Sheep & Goat pox	Six	Anantnag, Badgam, Kargil, Kulgam, Pulwama and Shupiyan

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 the month of April 2025 for Jammu and Kashmir

Districts of Jammu & Kashmir	Livestock Diseases	
	S&G Pox	Total No of Disease Risk per District
Anantnag	<i>VHR</i>	1
Badgam	<i>VHR</i>	1
Kargil	<i>HR</i>	1
Kulgam	<i>VHR</i>	1
Pulwama	<i>VHR</i>	1
Shupiyan	<i>VHR</i>	1
Total No of District at Disease risk	6	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 with timely boosters' S & G pox alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

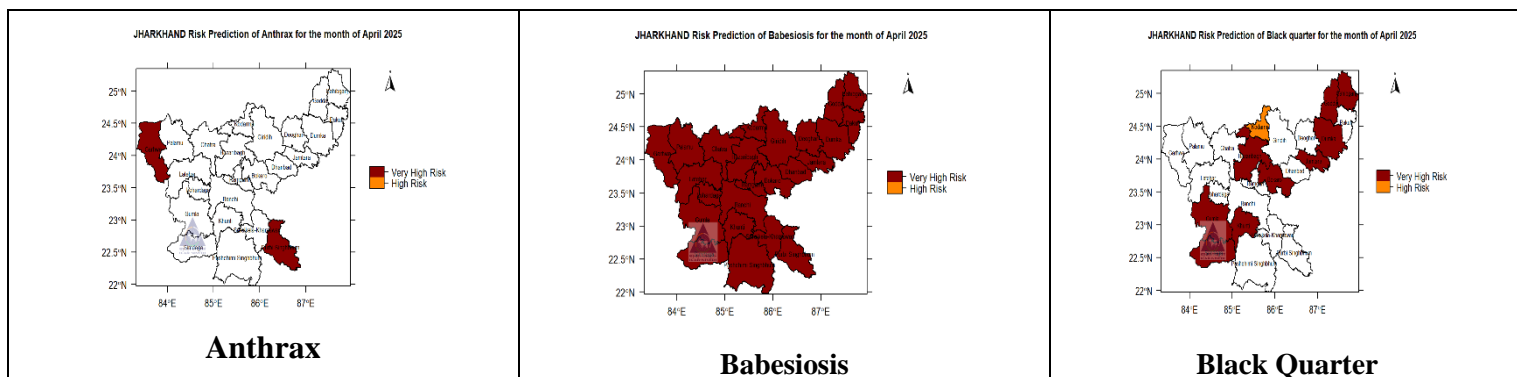
3.15. Jharkhand

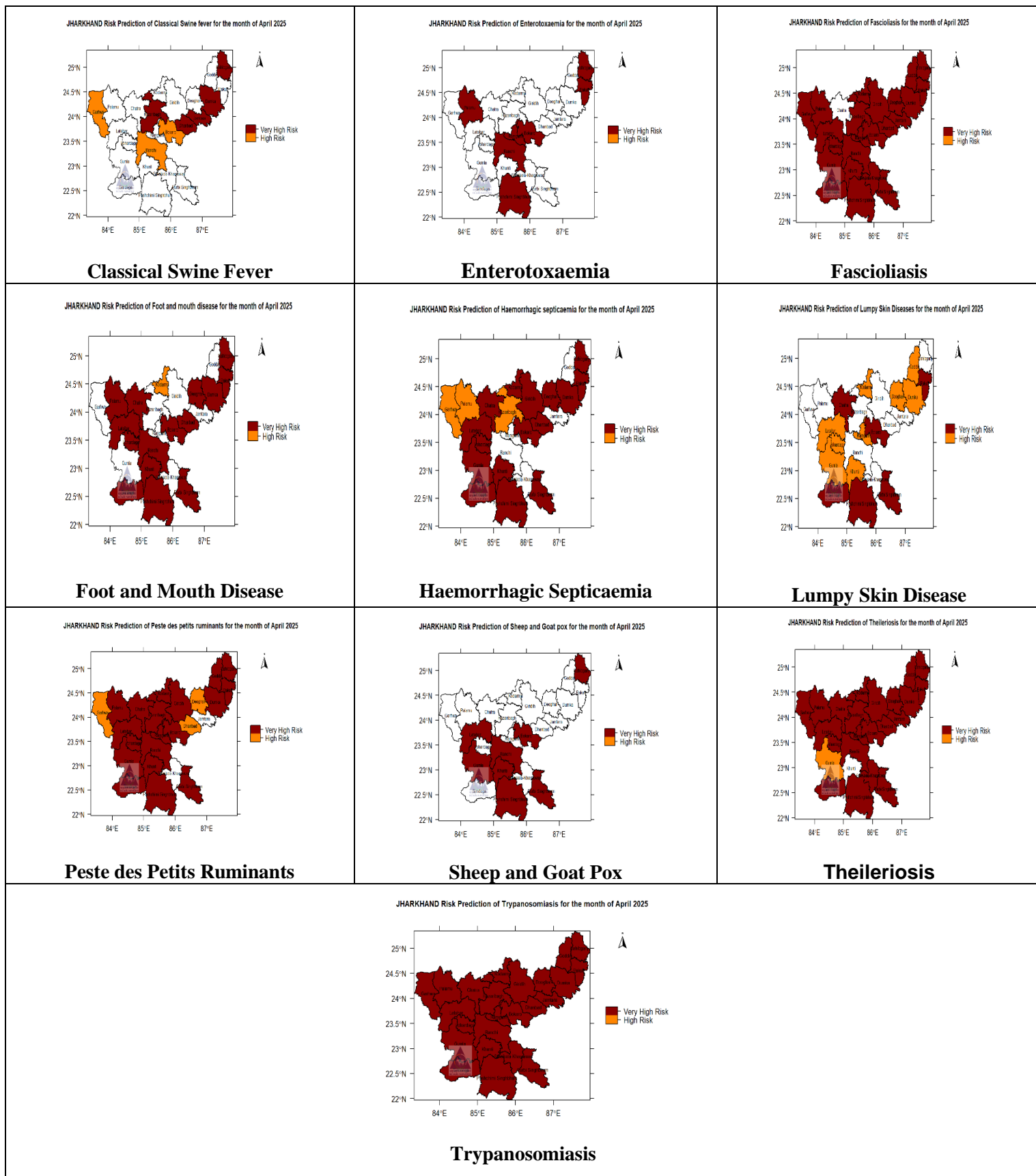
The livestock disease forecast for **Jharkhand** for **April 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **13** major diseases. Among these, Babesiosis (24 districts), Trypanosomosis (24 districts), Fasciolosis (23 districts), Theileriosis (23 districts) and Peste des Petits Ruminants (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 Jharkhand During April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Anthrax	Two	Garhwa and Purbi Singhbhum
2	Babesiosis	Twenty-Four	All Districts
3	Black Quarter	Ten	Bokaro, Dumka, Godda, Gumla, Hazaribagh, Jamtara, Khunti, Kodarma, Sahibganj and Simdega
4	Classical Swine Fever	Eight	Bokaro, Dhanbad, Dumka, Garhwa, Hazaribagh, Jamtara, Ranchi and Sahibganj
5	Enterotoxaemia	Seven	Bokaro, Pakur, Palamu, Pashchimi Singhbhum, Ramgarh, Ranchi and Sahibganj
6	Fasciolosis	Twenty-Three	All Districts except Chatra
7	Foot and Mouth Disease	Sixteen	Bokaro, Chatra, Deoghar, Dhanbad, Dumka, Khunti, Kodarma, Latehar, Lohardaga, Pakur, Palamu, Pashchimi Singhbhum, Purbi Singhbhum, Ranchi, Sahibganj and Simdega
8	Haemorrhagic Septicaemia	Nineteen	Bokaro, Chatra, Deoghar, Dhanbad, Dumka, Garhwa, Giridih, Gumla, Hazaribagh, Khunti, Kodarma, Latehar, Lohardaga, Pakur, Palamu, Pashchimi Singhbhum, Purbi Singhbhum, Sahibganj and Simdega
9	Lumpy Skin Disease	Fifteen	Bokaro, Chatra, Deoghar, Dumka, Godda, Gumla, Khunti, Kodarma, Latehar, Lohardaga, Pakur, Pashchimi Singhbhum, Purbi Singhbhum, Ramgarh and Simdega
10	Peste des petits ruminants	Twenty-Two	All Districts Except Jamtara and Saraikela-Kharsawan
11	Sheep & Goat pox	Eight	Bokaro, Gumla, Khunti, Latehar, Pashchimi Singhbhum, Purbi Singhbhum, Ranchi and Sahibganj
12	Theileriosis	Twenty-Three	All Districts except Khunti
13	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 the month of April 2025 for Jharkhand

Districts of Jharkhand	Livestock Diseases													
	Ant hrax	Bab esios is	BQ	CSF	ET	Fasci olosi s	FMD	HS	LSD	PPR	S&G Pox	Theil erios is	Tryp anos omos is	Total No of Disease Risk per District
Bokaro	-	VHR	VHR	HR	VHR	VHR	VHR	VHR	VHR	VHR	VHR	VHR	VHR	12
Chatra	-	VHR	-	-	-	-	VHR	VHR	VHR	VHR	-	VHR	VHR	7
Deoghar	-	VHR	-	-	-	VHR	VHR	VHR	HR	HR	-	VHR	VHR	8
Dhanbad	-	VHR	-	VHR	-	VHR	VHR	VHR	-	HR	-	VHR	VHR	8
Dumka	-	VHR	VHR	VHR	-	VHR	VHR	VHR	HR	VHR	-	VHR	VHR	10
Garhwa	VHR	VHR	-	HR	-	VHR	-	HR	-	HR	-	VHR	VHR	8
Giridih	-	VHR	-	-	-	VHR	-	VHR	-	VHR	-	VHR	VHR	6
Godda	-	VHR	VHR	-	-	VHR	-		HR	VHR	-	VHR	VHR	7
Gumla	-	VHR	VHR	-	-	VHR	-	VHR	HR	VHR	VHR	HR	VHR	9
Hazaribagh	-	VHR	VHR	VHR	-	VHR	-	HR	-	VHR	-	VHR	VHR	8
Jamtara	-	VHR	VHR	VHR	-	VHR	-	-	-	-	-	VHR	VHR	6
Khunti	-	VHR	VHR	-	-	VHR	VHR	VHR	HR	VHR	VHR	-	VHR	9
Kodarma	-	VHR	HR	-	-	VHR	HR	VHR	HR	VHR		VHR	VHR	9
Latehar	-	VHR	-	-	-	VHR	VHR	VHR	HR	VHR	VHR	VHR	VHR	9
Lohardaga	-	VHR	-	-	-	VHR	VHR	VHR	HR	VHR	-	VHR	VHR	8
Pakur	-	VHR	-	-	VHR	VHR	VHR	VHR	VHR	VHR	-	VHR	VHR	9
Palamu	-	VHR	-	-	VHR	VHR	VHR	HR	-	VHR	-	VHR	VHR	8
Pashchimi Singhbhum	-	VHR	-	-	VHR	VHR	VHR	VHR	VHR	VHR	VHR	VHR	VHR	10
Purbi Singhbhum	VHR	VHR	-	-	-	VHR	VHR	VHR	VHR	VHR	VHR	VHR	VHR	10
Ramgarh	-	VHR	-	-	VHR	VHR		-	HR	VHR	-	VHR	VHR	7
Ranchi	-	VHR	-	HR	VHR	VHR	VHR	-	-	VHR	VHR	VHR	VHR	9
Sahibganj	-	VHR	VHR	VHR	VHR	VHR	VHR	VHR	-	VHR	VHR	VHR	VHR	11
Saraikela- Kharsawan	-	VHR	-	-	-	VHR	-	-	-	-	-	VHR	VHR	4
Simdega	-	VHR	VHR	HR	-	VHR	VHR	VHR	VHR	VHR	-	VHR	VHR	10
Total No of District at Disease risk	2	24	10	8	7	23	16	19	15	22	8	23	24	201

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 with timely boosters for PPR, BQ, CSF, ET, FMD, LSD, HS, S & G Pox, Anthrax, Theileriosis and implement prophylactic treatment for Babesiosis and Trypanosomosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

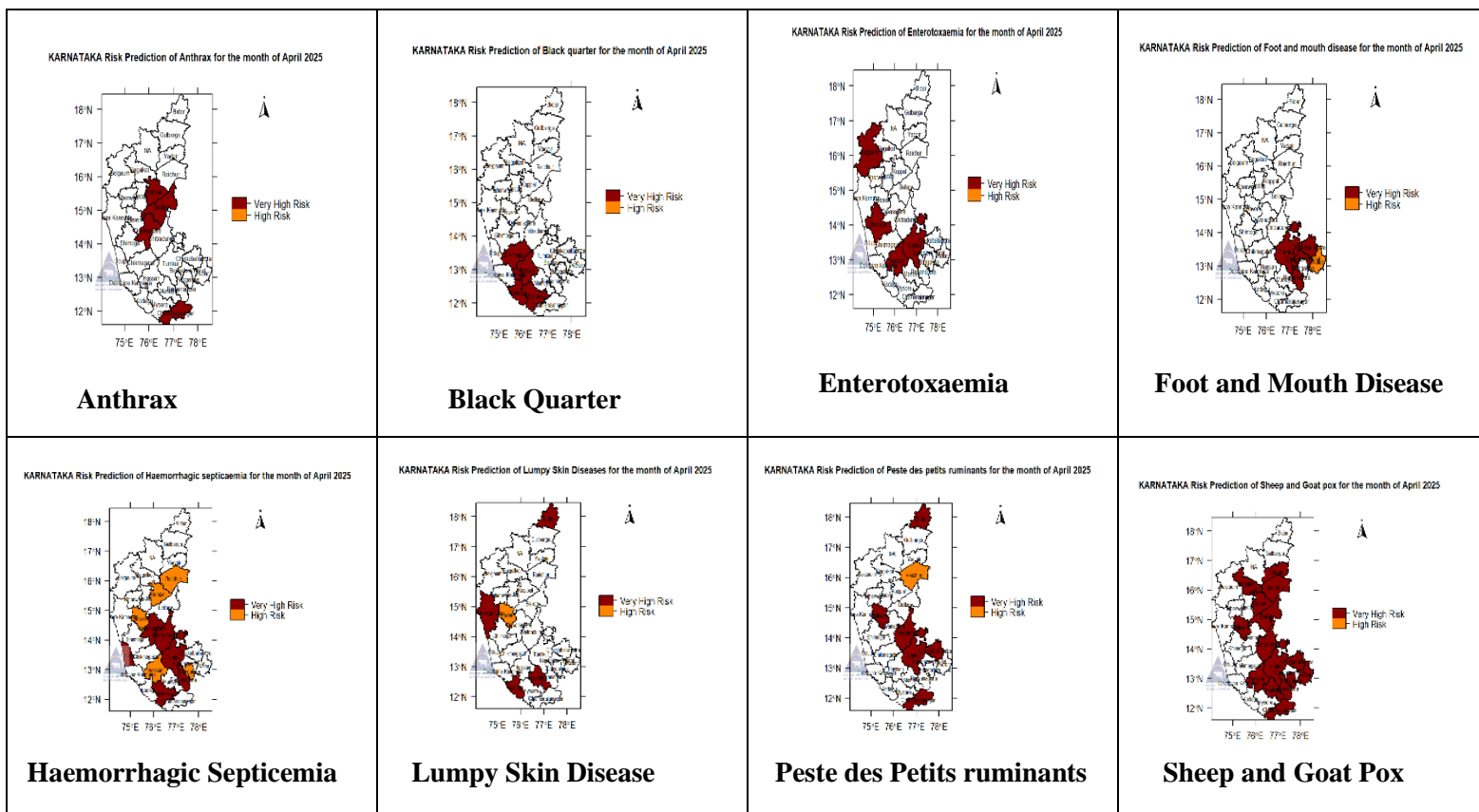
3.16. Karnataka

The livestock disease forecast for **Karnataka** for **April 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 (15 districts), Haemorrhagic septicemia (11 districts), and Peste des Petits Ruminants (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 Karnataka during April 2025

SI. No.	Disease Name	Number of districts predicted	Names of Districts
1	Anthrax	Four	Bellary, Chamarajanagar, Davanagere and Koppal
2	Black Quarter	Four	Chikmagalur, Hassan, Kodagu and Mysore
3	Enterotoxaemia	Four	Belgaum, Hassan, Shimoga and Tumkur
4	Foot and Mouth Disease	Five	Bangalore Rural, Chikkaballapura, Kolar, Ramanagara and Tumkur
5	Haemorrhagic septicemia	Eleven	Bangalore, Chitradurga, Davanagere, Hassan, Haveri, Koppal, Mysore, Raichur, Ramanagara, Tumkur and Udipi
6	Lumpy Skin Disease	Five	Bidar, Haveri, Kodagu, Mandya and Uttara Kannada
7	Peste des Petits Ruminants	Seven	Bidar, Chamarajanagar, Chikkaballapura, Chitradurga, Haveri, Raichur and Tumkur
8	Sheep & Goat pox	Fifteen	Bagalkot, Bangalore, Bellary, Chamarajanagar, Chikkaballapura, Chitradurga, Hassan, Haveri, Kolar, Koppal, Mandya, Raichur, Ramanagara, 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 the month of April 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	-	-	VHR	2
Bangalore Rural	-	-	-	VHR	-	-	-	-	1
Belgaum	-	-	VHR		-	-	-	-	1
Bellary	VHR	-	-	-	-	-	-	VHR	2
Bidar	-	-	-	-	-	VHR	VHR		2
Chamarajanagar	VHR	-	-	-	-	-	VHR	VHR	3
Chikkaballapura	-	-		VHR	-	-	VHR	VHR	3
Chikmagalur	-	VHR	-	-	-	-	-	-	1
Chitradurga	-	-	-	-	VHR	-	VHR	VHR	3
Davanagere	VHR	-	-	-	VHR	-	-	-	2
Hassan	-	VHR	VHR	-	HR	-	-	VHR	4
Haveri	-		-	-	HR	HR	VHR	VHR	4
Kodagu	-	VHR	-	-	-	VHR	-	-	2
Kolar	-	-	-	HR	-	-	-	VHR	2
Koppal	VHR	-	-	-	HR	-	-	VHR	3
Mandya	-	-	-	-		VHR	-	VHR	2
Mysore	-	VHR	-	-	VHR	-	-	-	2
Raichur	-	-	-	-	HR	-	HR	VHR	3
Ramanagara	-	-	-	VHR	VHR	-		VHR	3
Shimoga	-	-	VHR			-		-	1
Tumkur	-	-	VHR	VHR	VHR	-	VHR	VHR	4
Udupi	-	-	-	-	VHR	-	-	-	1
Uttara Kannada	-	-	-	-	-	VHR	-	-	1
Yadgir	-	-	-	-	-		-	VHR	1
Total No. of district at disease risk	4	4	4	5	11	5	7	15	55

IV. Risk Mitigation/Risk communication Strategies

Ensure 100% vaccination with timely boosters for HS, PPR, S &G pox, Anthrax, BQ, ET, LSD and FMD alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

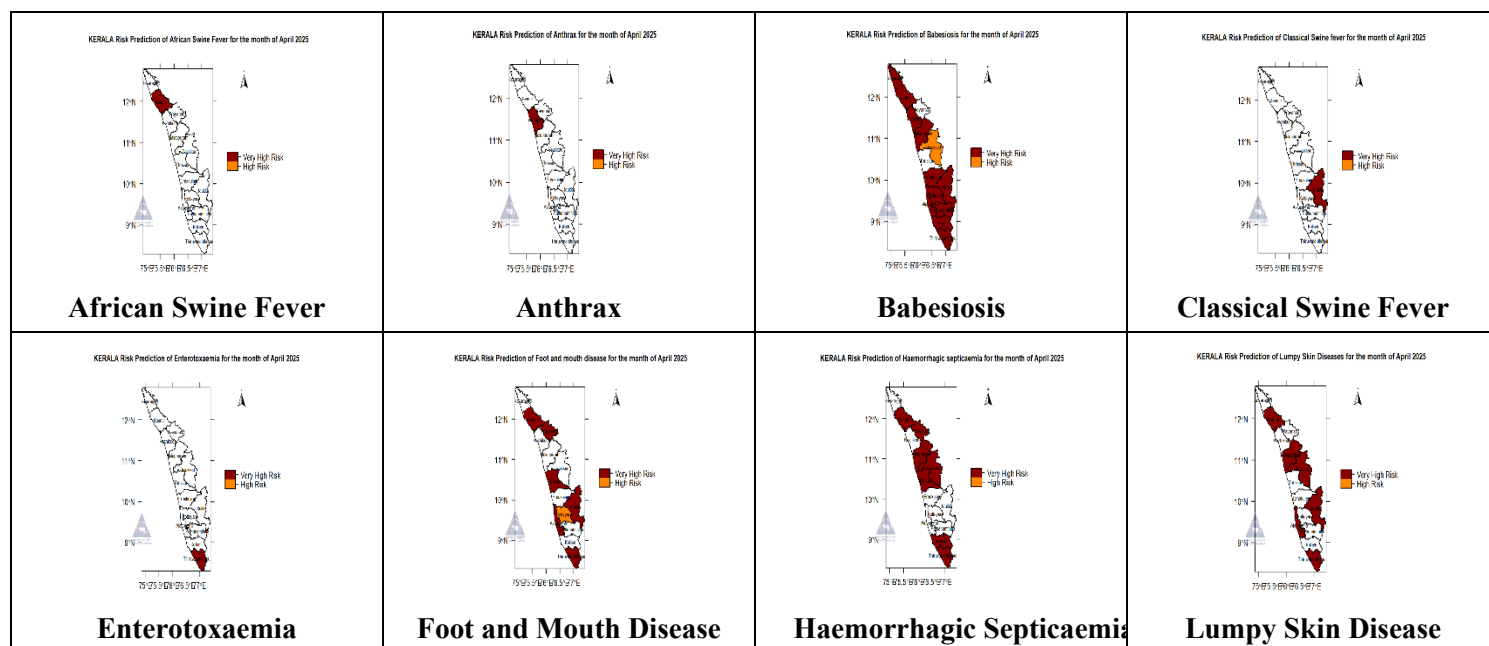
3.17. Kerala

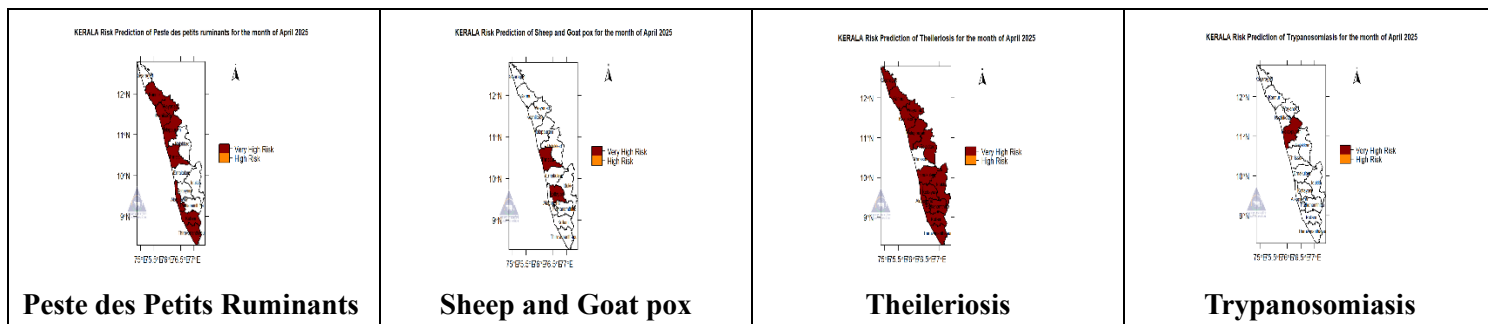
The livestock disease forecast for **Kerala** for **April 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **12** major diseases. Among these, Theileriosis (13 districts), Babesiosis (12 districts), Peste des Petits Ruminants (8 districts) and Foot and Mouth Disease (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 Kerala during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	One	Kannur
2	Anthrax	One	Kozhikode
3	Babesiosis	Twelve	All Districts expect Thrissur and Wayanad
4	Classical Swine Fever	One	Idukki
5	Enterotoxaemia	One	Thiruvananthapuram
6	Foot and Mouth Disease	Seven	Alappuzha, Idukki, Kannur, Kottayam, Thiruvananthapuram, Thrissur and Wayanad
7	Haemorrhagic Septicaemia	Seven	Kannur, Kollam, Malappuram, Palakkad, Thiruvananthapuram, Thrissur and Wayanad
8	Lumpy Skin Disease	Six	Alappuzha, Idukki, Kannur, Malappuram, Thiruvananthapuram and Palakkad
9	Peste des Petits Ruminants	Eight	Alappuzha, Kannur, Kollam, Kozhikode, Malappuram, Thiruvananthapuram, Thrissur and Wayanad
10	Sheep and Goat Pox	Two	Kottayam
11	Theileriosis	Thirteen	All Districts expect Thrissur
12	Trypanosomiasis	One	Malappuram

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 the month of April 2025 for Kerala

Districts of Kerala	Livestock Diseases												
	Ant hrax	ASF	Babe siosis	CSF	ET	FMD	HS	LSD	PPR	S&G Pox	Theil erios is	Trypa noso miasi s	Total No of Disease Risk per District
Alappuzha	-	-	VHR	-	-	VHR	-	VHR	VHR	-	VHR	-	5
Ernakulam	-	-	VHR	-	-	-	-	-	-	-	VHR	-	2
Idukki	-	-	VHR	VHR	-	VHR	-	VHR	-	-	VHR	-	5
Kannur	VHR	-	VHR	-	-	VHR	VHR	VHR	VHR	-	VHR	-	7
Kasaragod	-	-	VHR	-	-	-	-	-	-	-	VHR	-	2
Kollam	-	-	VHR	-	-	-	VHR	-	VHR	-	VHR	-	4
Kottayam	-	-	VHR	-	-	HR	-	-	-	VHR	VHR	-	4
Kozhikode	-	VHR	VHR	-	-	-	-	-	VHR	-	VHR	-	4
Malappuram	-	-	VHR	-	-	-	VHR	VHR	VHR	-	VHR	VHR	6
Palakkad	-	-	HR	-	-	-	VHR	VHR	-	-	VHR	-	4
Pathanamthitta	-	-	VHR	-	-	-	-	-	-	-	VHR	-	2
Thiruvananthapuram	-	-	VHR	-	VHR	VHR	VHR	VHR	VHR	-	VHR	-	7
Thrissur	-	-	-	-	-	VHR	VHR	-	VHR	VHR	-	-	4
Wayanad	-	-	-	-	-	VHR	VHR	-	VHR	-	VHR	-	4
Total No of District at Disease risk	1	1	12	1	1	7	7	6	8	2	13	1	60

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 with timely boosters for PPR, Theileriosis, HS, FMD, LSD, S&G Pox and implement prophylactic treatment for Babesiosis and Trypanosomosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

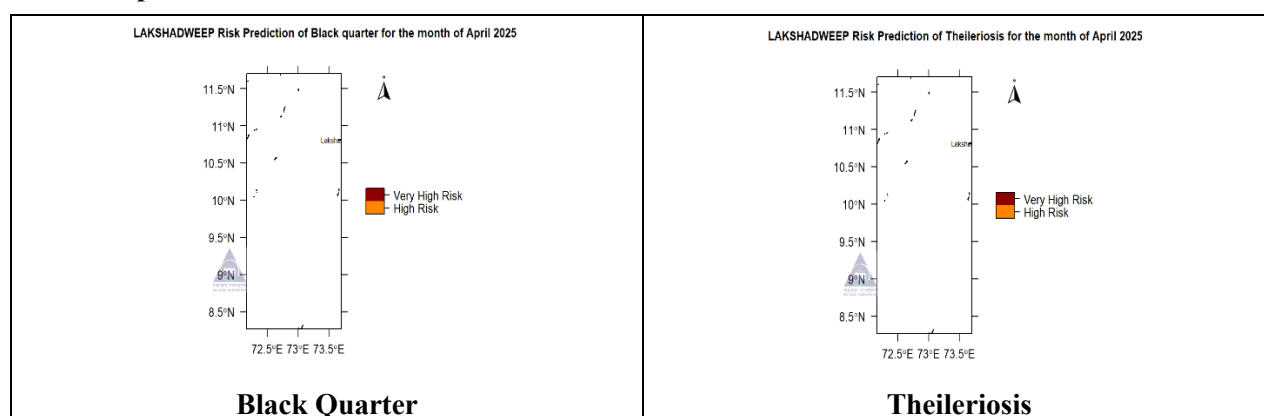
3.18. Lakshadweep

The livestock disease forecast for **Lakshadweep** for **April 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, Black Quarter (1 district) and Theileriosis (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 Lakshadweep during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Black Quarter	One	Lakshadweep
2	Theileriosis	One	Lakshadweep

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



III. District-Wise Risk Assessment for Livestock Disease Forewarning for the month of April 2025 for Lakshadweep

Districts of Lakshadweep	Livestock Diseases		
	Black Quarter	Theileriosis	Total No of Disease Risk per District
Lakshadweep	<i>HR</i>	<i>HR</i>	2
Total No of District at Disease Risk	1	1	2

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 with timely boosters for BQ, Theileriosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

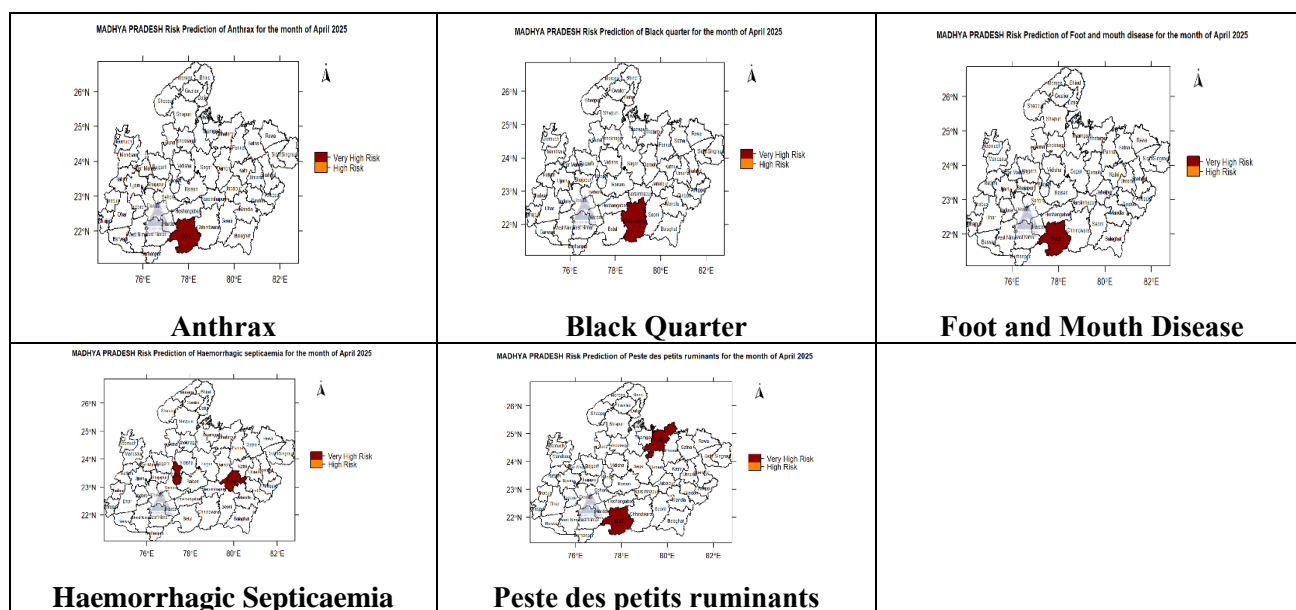
3.19. Madhya Pradesh

The livestock disease forecast for **Madhya Pradesh** for **April 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, Hemorrhagic septicemia (2 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 Madhya Pradesh during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Anthrax	One	Betul
2	Black Quarter	One	Chhindwara
3	Foot and Mouth Disease	One	Betul
4	Haemorrhagic Septicemia	Two	Bhopal and Jabalpur
5	Peste des petits ruminants	Two	Betul and Chhatarpur

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 the month of April 2025 for Madhya Pradesh

Districts of Madhya Pradesh	Livestock Diseases					
	Anthrax	BQ	FMD	HS	PPR	Total No of Disease Risk per District
Betul	VHR	-	VHR	-	VHR	3
Bhopal	-	-	-	VHR	-	1
Chhindwara	-	VHR	-	-	-	1
Chhatarpur	-	-	-	-	VHR	1
Jabalpur	-	-	-	VHR	-	1
Total No of District at Disease risk	1	1	1	2	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 with timely boosters for PPR, Theileriosis, S & G pox, CSF, ET and FMD alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

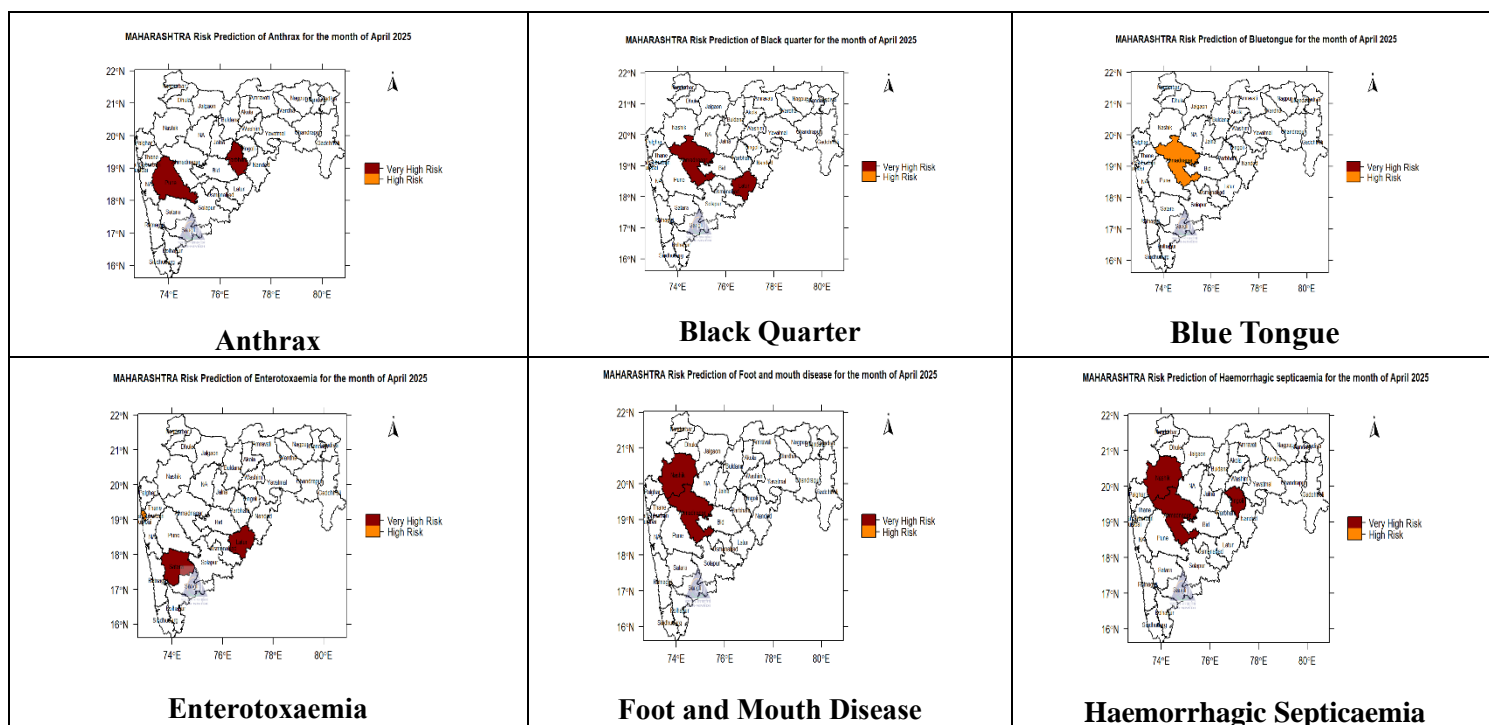
3.20. Maharashtra

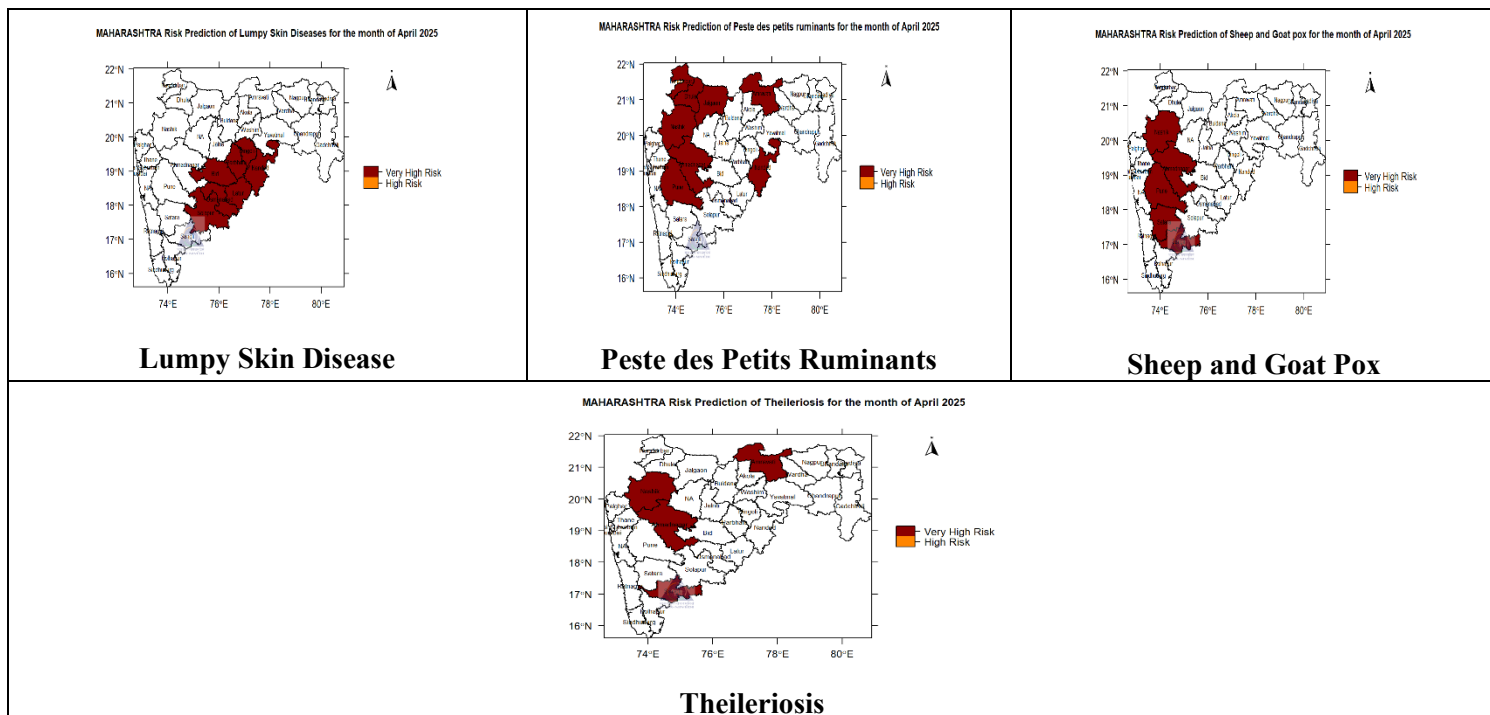
The livestock disease forecast for **Maharashtra** for **April 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **10** major diseases. Among these, Peste des Petits Ruminants (8 districts), Lumpy Skin Disease (7 districts), Sheep and Goat pox (5 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 Maharashtra during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Anthrax	Two	Parbhani and Pune
2	Black Quarter	Two	Latur and Ahmadnagar
3	Blue Tongue	One	Ahmadnagar
4	Enterotoxaemia	Three	Latur, Mumbai Suburban and Satara
5	Foot and Mouth Disease	Two	Ahmadnagar and Nashik
6	Haemorrhagic septicemia	Three	Ahmadnagar, Hingoli and Nashik
7	Lumpy Skin Disease	Seven	Bid, Hingoli, Latur, Nanded, Osmanabad, Parbhani and Solapur
8	Peste des petits ruminants	Eight	Ahmadnagar, Amravati, Dhule, Jalgaon, Nanded, Nandurbar, Nashik and Pune
9	Sheep & Goat pox	Five	Ahmadnagar, Nashik, Pune, Sangli and Satara
10	Theileriosis	Four	Ahmadnagar, Amravati, 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 the month of April 2025 for Maharashtra

Districts of Maharashtra	Livestock Diseases										
	Anthrax	BQ	BT	ET	FMD	HS	LSD	PPR	S&G Pox	Theileriosis	Total No of Disease Risk per District
Ahmadnagar	-	VHR	HR	-	VHR	VHR	-	VHR	VHR	VHR	7
Amravati	-	-	-	-	-	-	-	VHR	-	VHR	2
Bid	-	-	-	-	-	-	VHR	-	-	-	1
Dhule	-	-	-	-	-	-	-	VHR	-	-	1
Hingoli	-	-	-	-	-	VHR	VHR	-	-	-	2
Jalgaon	-	-	-	-	-	-	-	VHR	-	-	1
Latur	-	VHR	-	VHR	-	-	VHR	-	-	-	3
Mumbai Suburban	-	-	-	HR	-	-	-	-	-	-	1
Nanded	-	-	-	-	-	-	VHR	VHR	-	-	2
Nandurbar	-	-	-	-	-	-	-	VHR	-	-	1
Nashik	-	-	-	-	VHR	VHR	-	VHR	VHR	VHR	5
Osmanabad	-	-	-	-	-	-	VHR	-	-	-	1
Parbhani	VHR	-	-	-	-	-	VHR	-	-	-	2
Pune	VHR	-	-	-	-	-	-	VHR	VHR	-	3
Sangli	-	-	-	-	-	-	-	-	VHR	VHR	2
Satara	-	-	-	VHR	-	-	-	-	VHR	-	2
Solapur	-	-	-	-	-	-	VHR	-	-	-	1
Total No of District at Disease risk	2	2	1	3	2	3	7	8	5	4	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 with timely boosters for PPR, Theileriosis, S & G pox, CSF, ET, Anthrax and BQ and FMD alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

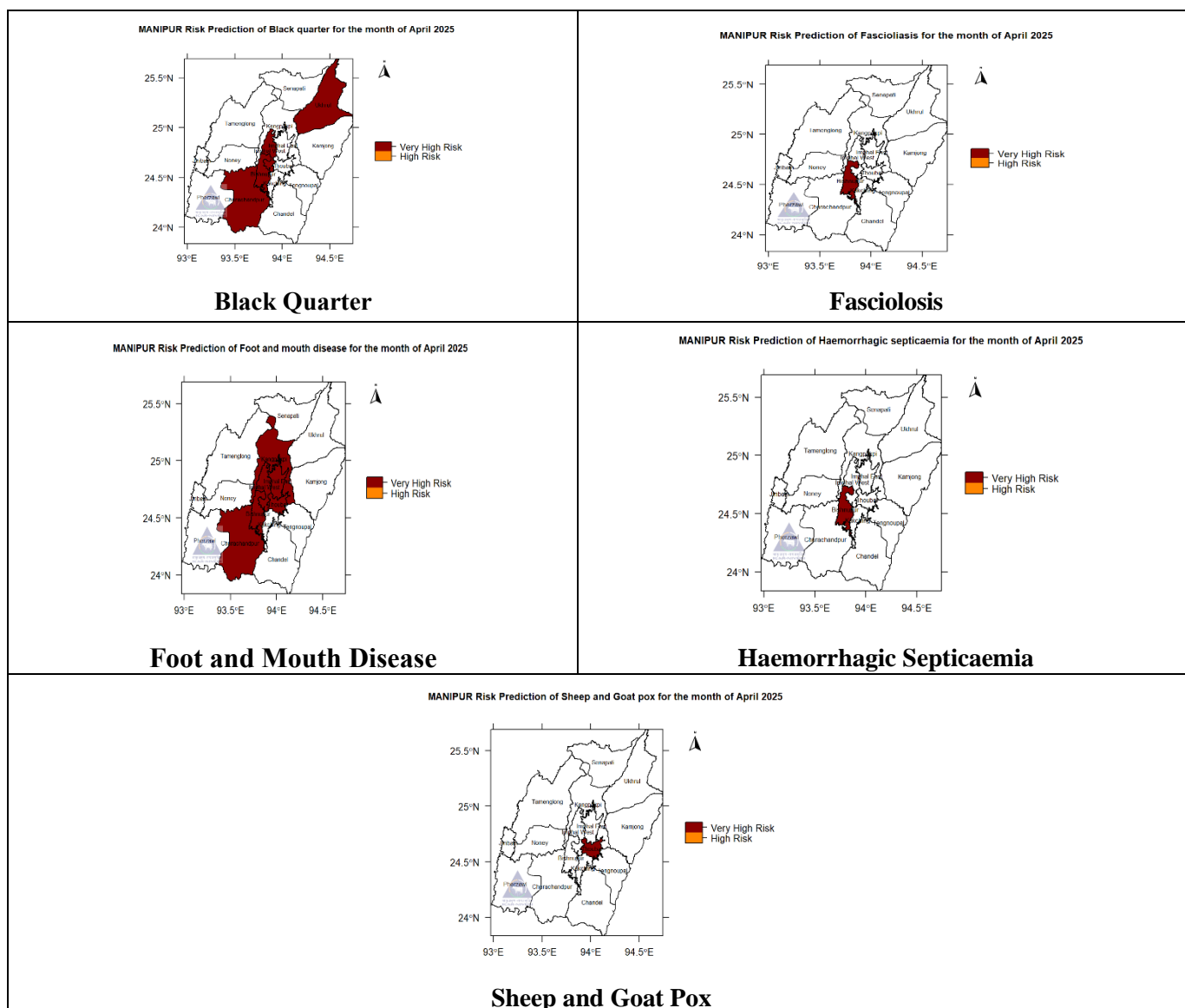
3.21. Manipur

The livestock disease forecast for **Manipur** for **April 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 (6 districts) and Fasciolosis (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 Manipur during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts Predicted at Very-high level risk
1	Black Quarter	Four	Bishnupur, Churachandpur, Imphal West and Ukhrul
2	Fasciolosis	One	Bishnupur
3	Foot and Mouth Disease	Six	Bishnupur, Churachandpur, Imphal East, Imphal West, Kangpokpi and Thoubal
4	Haemorrhagic Septicaemia	One	Bishnupur
5	Sheep and Goat pox	One	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 the month of April 2025 for Manipur

Districts of Manipur	Livestock Diseases					
	BQ	Fasciolosis	FMD	HS	S&G Pox	Total No of Disease Risk per District
Bishnupur	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	-	4
Churachandpur	<i>VHR</i>	-	<i>VHR</i>	-	-	2
Imphal East	-	-	<i>VHR</i>	-	-	1
Imphal West	<i>VHR</i>	-	<i>VHR</i>	-	-	2
Kangpokpi	-	-	<i>VHR</i>	-	-	1
Thoubal	-	-	<i>VHR</i>	-	<i>VHR</i>	2
Ukhrul	<i>VHR</i>	-	-	-	-	1
Total No of District at Disease risk	4	1	6	1	1	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 with timely boosters for BQ, FMD, HS, S&G Pox and implement prophylactic treatment for Fasciolosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

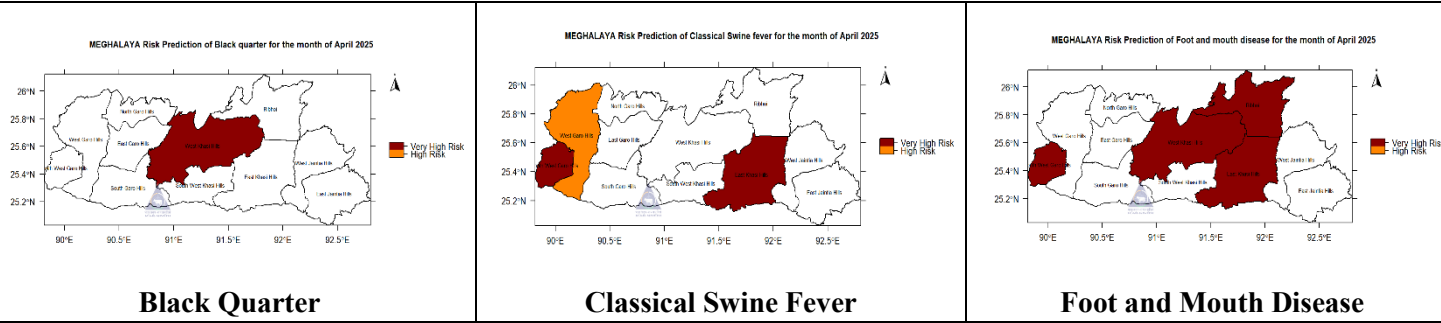
3.22. Meghalaya

The livestock disease forecast for **Meghalaya** for **April 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 (4 districts) and Classical 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 Meghalaya during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts Predicted
1	Black Quarter	One	West Khasi Hills
2	Classical Swine Fever	Three	East Khasi Hills, South West Garo Hills and West Garo Hills
3	Foot and Mouth Disease	Four	East Khasi Hills, Ribhoi, South West Garo Hills, West Khasi 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 the month of April 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 Garo Hills	-	HR	-	1
West Khasi Hills	VHR	-	VHR	2
Total No of District at Disease risk	1	3	4	8

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 with timely boosters for FMD, CSF and BQ alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

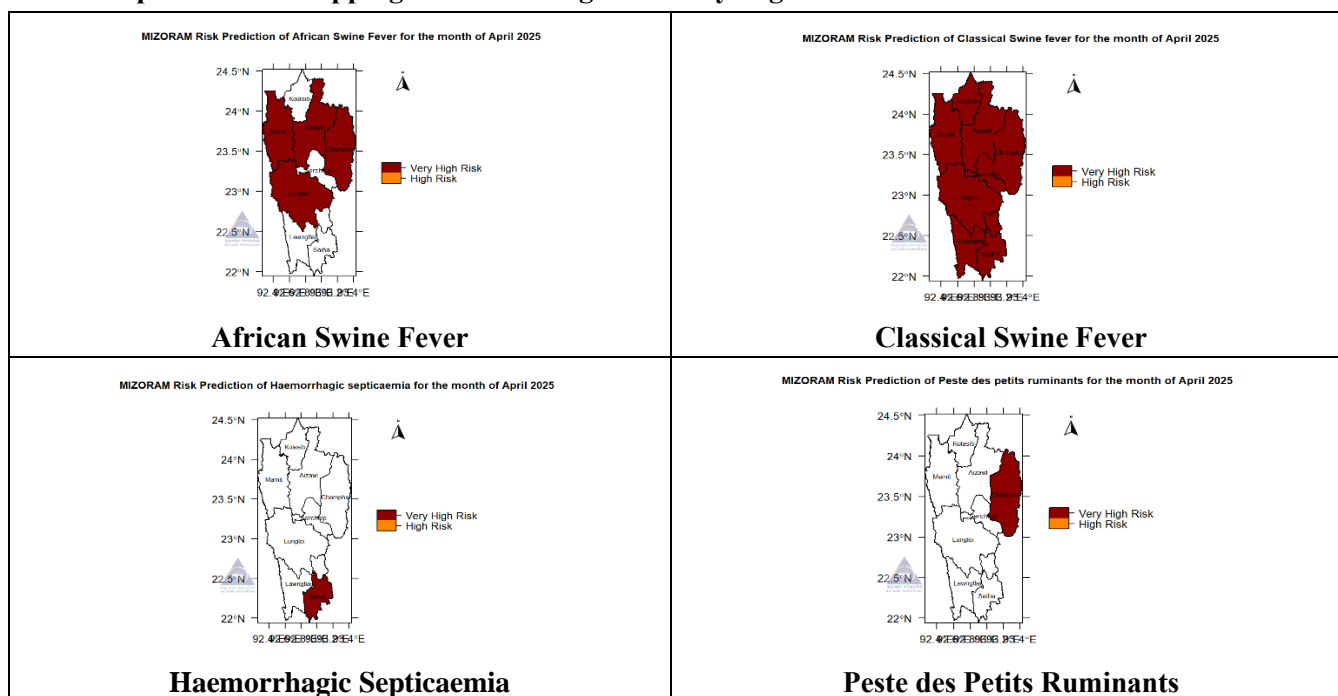
3.23. Mizoram

The livestock disease forecast for **Mizoram** for **April 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 (8 districts) and African 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 April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	Four	Aizawl, Champhai, Lunglei and Mamit
2	Classical swine Fever	Eight	All Districts
3	Haemorrhagic Septicaemia	One	Saiha
4	Peste des Petits Ruminants	One	Champhai

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 the month of April 2025 of Mizoram

Districts of Mizoram	Livestock Diseases				
	ASF	CSF	HS	PPR	Total No of Disease Risk per District
Aizawl	VHR	VHR	-	-	2
Champhai	VHR	VHR	-	VHR	3
Kolasib	-	VHR	-	-	1
Lawngtlai	-	VHR	-	-	1
Lunglei	VHR	VHR	-	-	2
Mamit	VHR	VHR	-	-	2
Saiha	-	VHR	VHR	-	2
Serchhip	-	VHR	-	-	1
Total No of District at Disease risk	4	8	1	1	14

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 with timely boosters for CSF, HS, PPR and implement Biosecurity measures for ASF alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

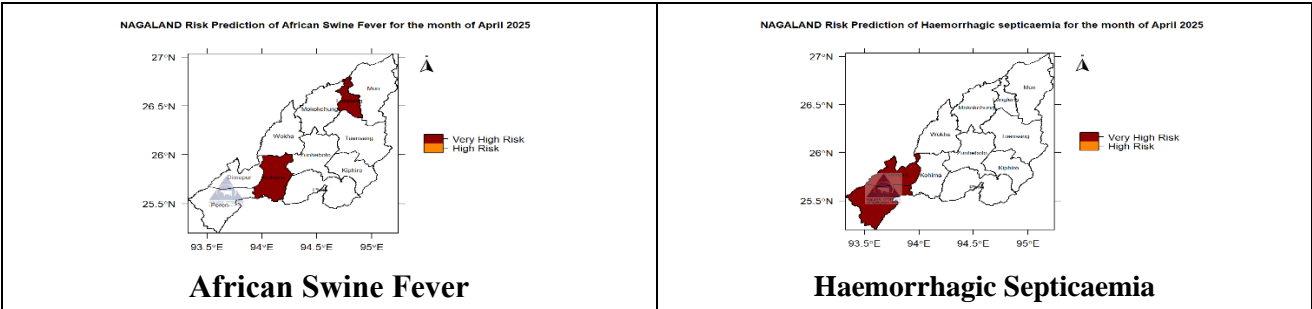
3.24. Nagaland

The livestock disease forecast for **Nagaland** for **April 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 (2 districts) and Haemorrhagic Septicaemia (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 Nagaland during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	Two	Kohima and Longleng
2	Haemorrhagic Septicaemia	Two	Peren and Dimapur

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 the month of April 2025 for Nagaland

Districts of Nagaland	Livestock Diseases		
	ASF	HS	Total No of Disease Risk per District
Dimapur	-	<i>VHR</i>	1
Kohima	<i>VHR</i>	-	1
Longleng	<i>VHR</i>	-	1
Peren	-	<i>VHR</i>	1
Total No of District at Disease risk	2	2	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 with timely boosters for HS and implement Biosecurity measures for ASF alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

3.25. NCT of Delhi

The livestock disease forecast for **NCT of Delhi** for **April 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 NCT of Delhi during April 2025
No Table

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

III. District-Wise Risk Assessment for Livestock Disease Forewarning for the month of April 2025 for NCT of Delhi
No Table

IV. Risk Mitigation/Risk communication Strategies

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.

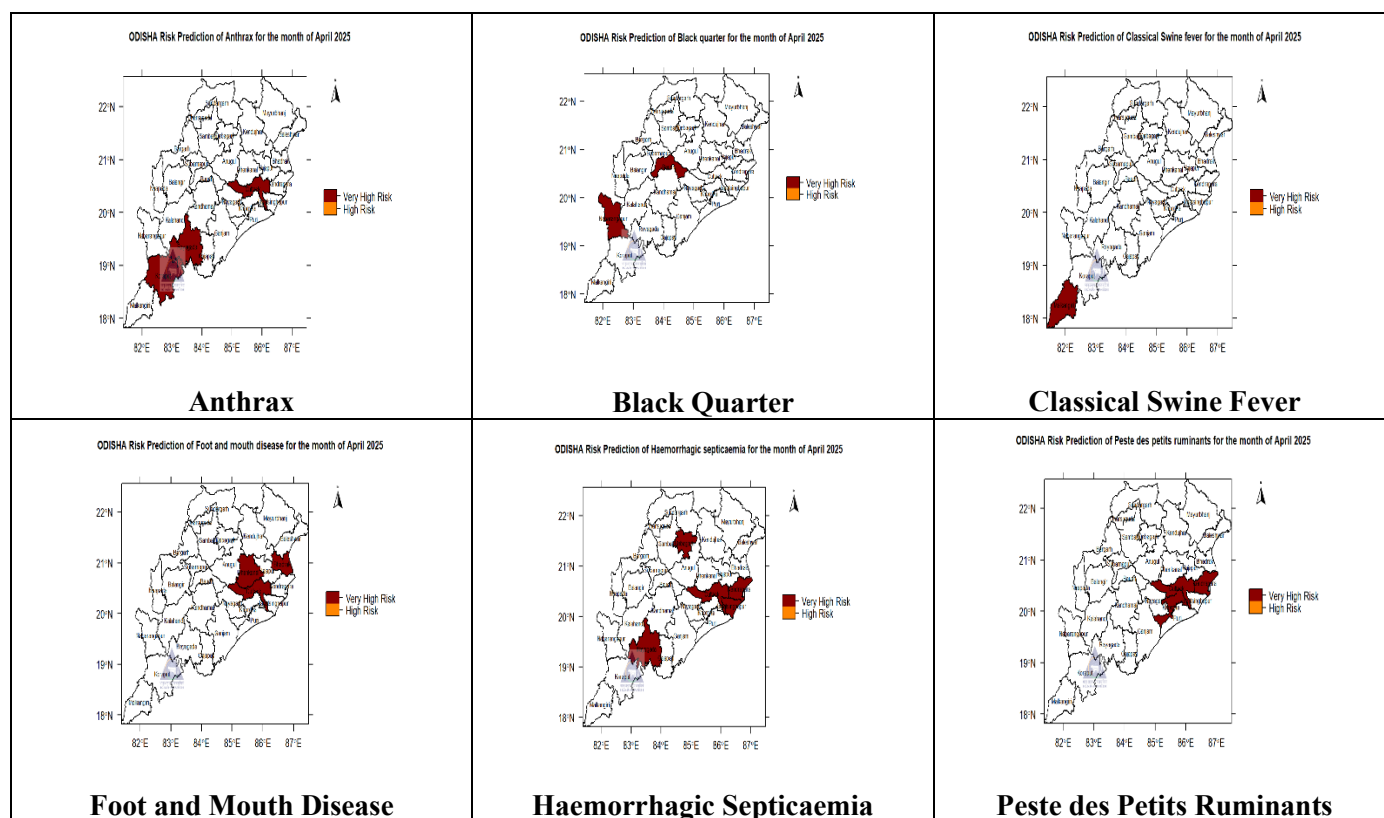
3.26. Odisha

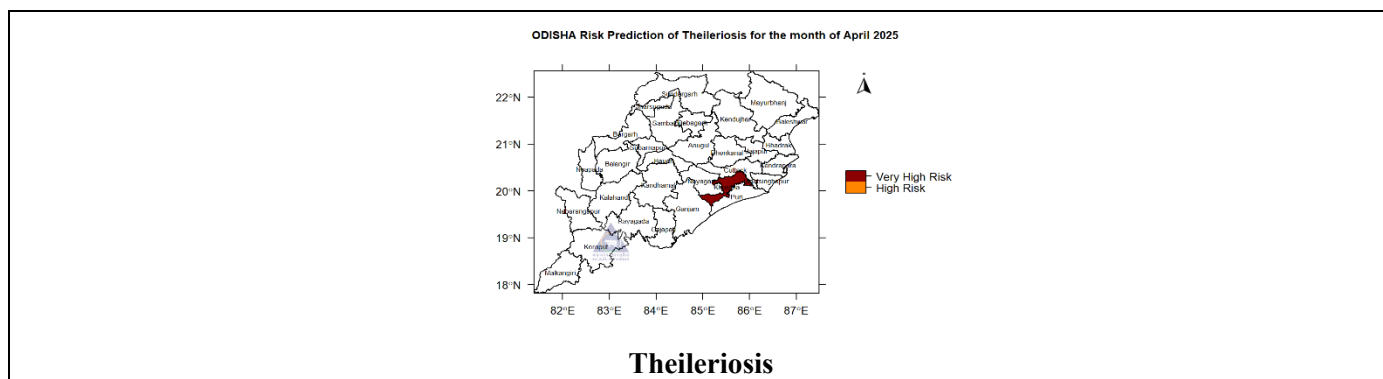
The livestock disease forecast for **Odisha** for **April 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **7** major diseases. Among these, Haemorrhagic septicaemia (5 districts), Anthrax (3 districts), 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 April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Anthrax	Three	Cuttack, Koraput and Rayagada
2	Black Quarter	Two	Baudh and Nabarangapur
3	Classical Swine Fever	One	Malkangiri
4	Foot and Mouth Disease	Three	Bhadrak, Cuttack and Dhenkanal
5	Haemorrhagic septicaemia	Five	Cuttack, Debagarh, Jagatsinghapur, Kendrapara and Rayagada
6	Peste des petits ruminants	Three	Cuttack, Kendrapara and Khordha
7	Theileriosis	One	Khordha

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 the month of April 2025 for Odisha

Districts of Odisha	Livestock Diseases							
	Anthrax	BQ	CSF	FMD	HS	PPR	Theileriosis	Total No of Disease Risk per District
Baudh	-	<i>VHR</i>	-	-	-	-	-	1
Bhadrak	-	-	-	<i>VHR</i>	-	-	-	1
Cuttack	<i>VHR</i>	-	-	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	-	4
Debagarh	-	-	-	-	<i>VHR</i>	-	-	1
Dhenkanal	-	-	-	<i>VHR</i>	-	-	-	1
Jagatsinghapur	-	-	-	-	<i>VHR</i>	-	-	1
Kendrapara	-	-	-	-	<i>VHR</i>	<i>VHR</i>	-	2
Khordha	-	-	-	-	-	<i>VHR</i>	<i>VHR</i>	2
Koraput	<i>VHR</i>	-	-	-	-	-	-	1
Malkangiri	-	-	<i>VHR</i>	-	-	-	-	1
Nabarangapur	-	<i>VHR</i>	-	-	-	-	-	1
Rayagada	<i>VHR</i>	-	-	-	<i>VHR</i>	-	-	2
Total No of District at Disease risk	3	2	1	3	5	3	1	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 with timely boosters for HS, FMD, Anthrax, BQ and PPR alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

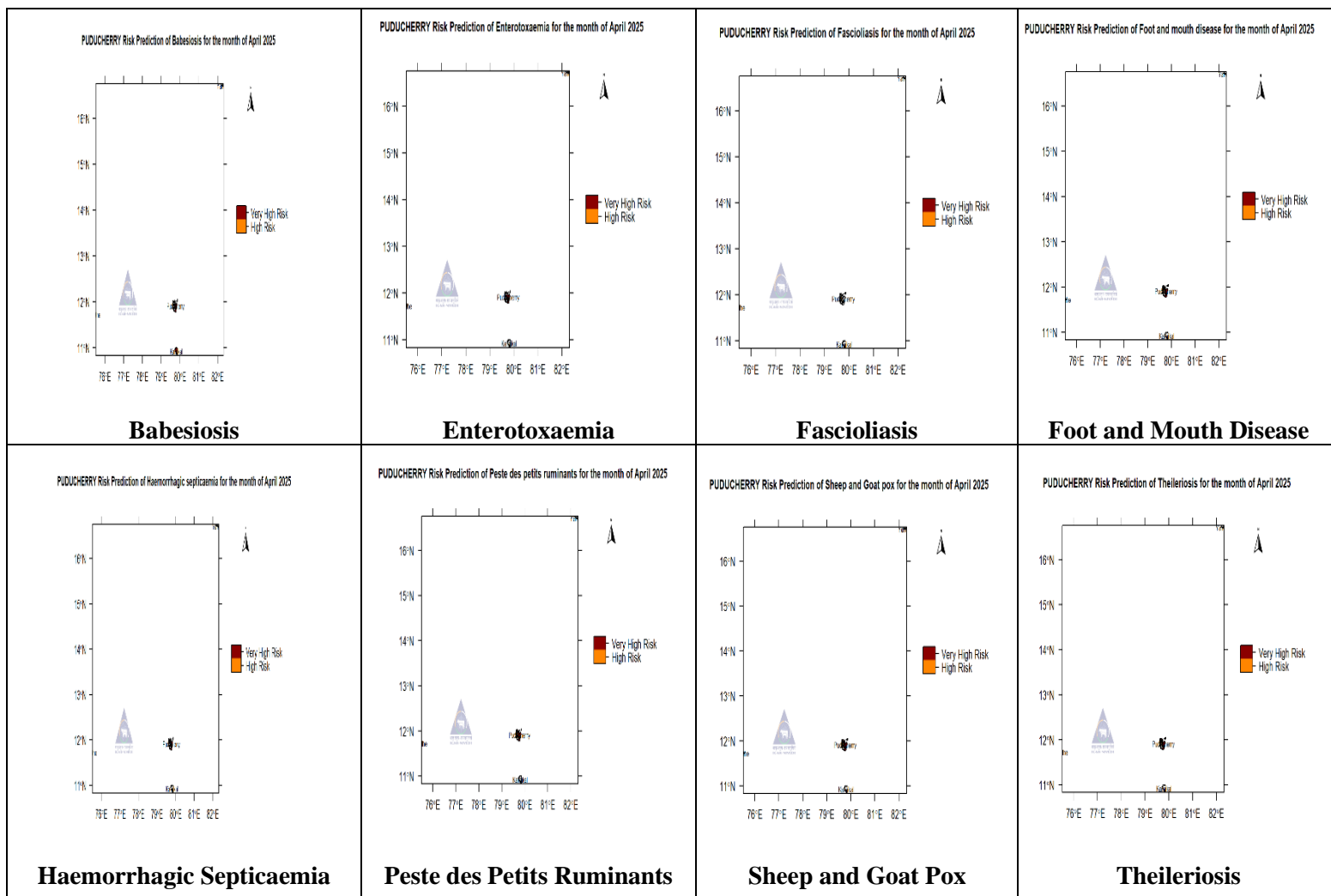
3.27. Puducherry

The livestock disease forecast for **Puducherry** for **April 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 (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 April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	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 the month of April 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>VHR</i>	<i>VHR</i>	<i>VHR</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 with timely boosters for PPR, Theileriosis, HS, FMD, ET, S&G Pox and implement prophylactic treatment for Babesiosis and Fasciolosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

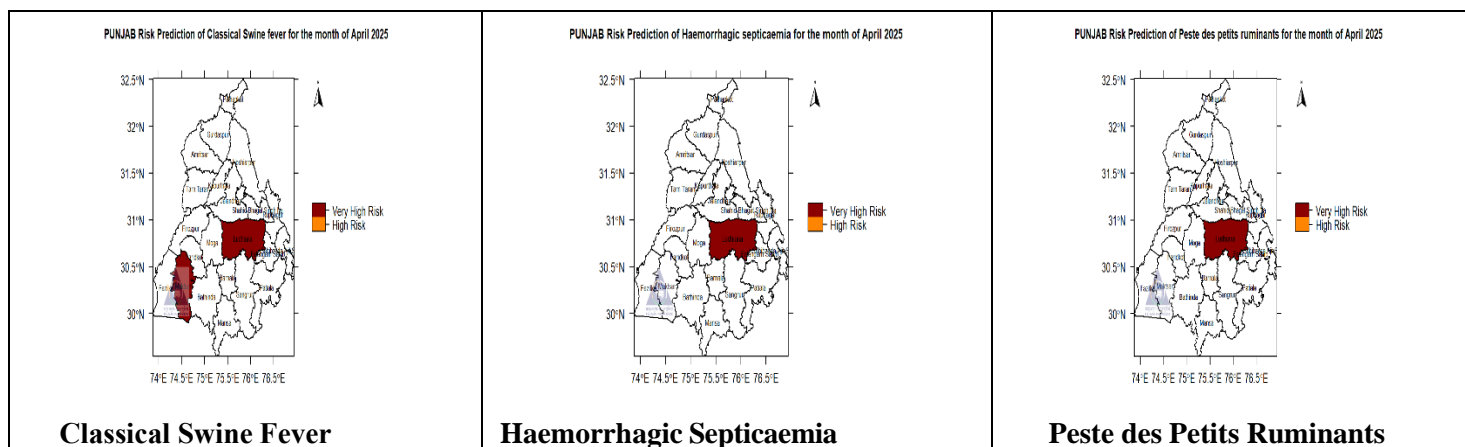
3.28. Punjab

The livestock disease forecast for **Punjab** for **April 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, 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 Punjab during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Classical Swine Fever	Two	Ludhiana and Muktsar
2	Haemorrhagic Septicaemia	One	Ludhiana
3	Peste des Petits Ruminants	One	Ludhiana

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



III. District-Wise Risk Assessment for Livestock Disease Forewarning for the month of April 2025 for Punjab

Districts of Puducherry	Livestock Diseases			
	CSF	HS	PPR	Total No of Disease Risk per District
Ludhiana	VHR	VHR	VHR	3
Muktsar	VHR	-	-	1
Total No of District at Disease risk	2	1	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 with timely boosters for CSF, HS and PPR alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

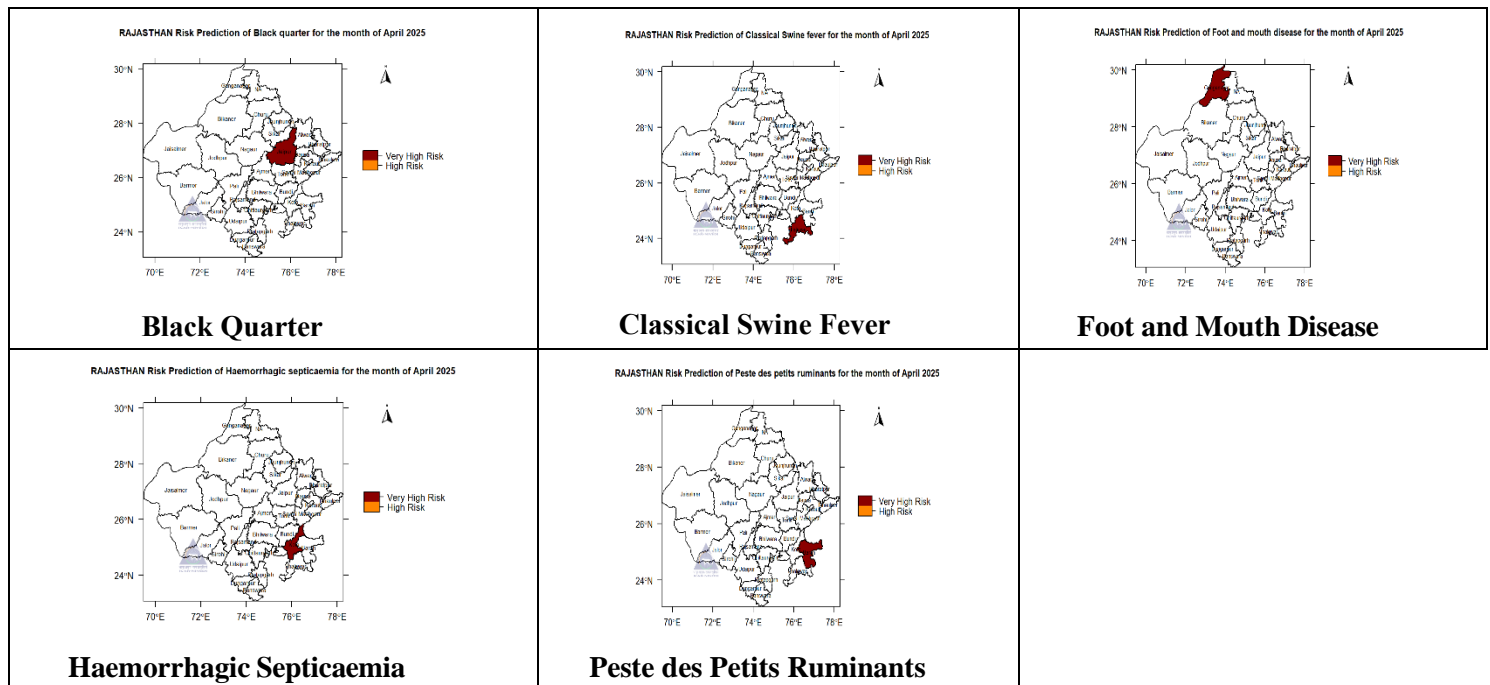
3.29. Rajasthan

The livestock disease forecast for **Rajasthan** for **April 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, Haemorrhagic Septicaemia (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 Rajasthan during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Black Quarter	One	Jaipur
2	Classical Swine Fever	One	Jhalawar
3	Foot and Mouth Disease	One	Ganganagar
4	Haemorrhagic Septicaemia	Two	Hanumangarh and Kota
5	Peste des Petits Ruminants	One	Baran

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 the month of April 2025 for Rajasthan

Districts of Rajasthan	Livestock Diseases					Total No of Disease Risk per District
	BQ	CSF	FMD	HS	PPR	
Baran	-	-	-	-	<i>VHR</i>	1
Ganganagar	-	-	<i>VHR</i>	-	-	1
Hanumangarh	-	-	-	<i>VHR</i>	-	1
Jaipur	<i>VHR</i>	-	-	-	-	1
Jhalawar	-	<i>VHR</i>	-	-	-	1
Kota	-	-	-	<i>VHR</i>	-	1
Total No of District at Disease risk	1	1	1	2	1	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 with timely boosters for HS, FMD, CSF, BQ and PPR alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

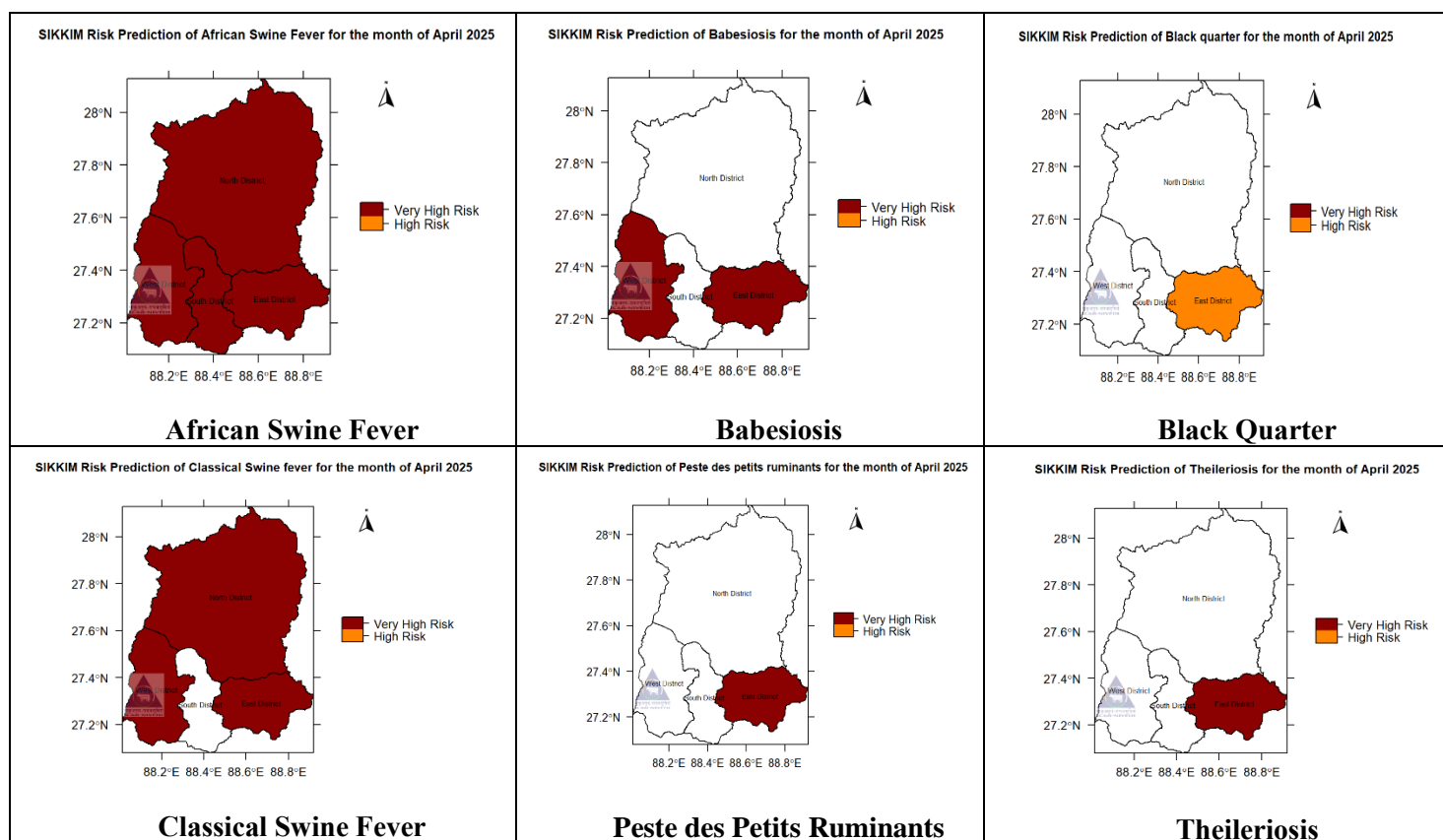
3.30. Sikkim

The livestock disease forecast for **Sikkim** for **April 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, African Swine Fever (4 districts), Babesiosis (3 districts), Classical 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 April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	African Swine Fever	Four	All districts
2	Babesiosis	Two	East District and West District
3	Black Quarter	One	East District
4	Classical Swine Fever	Three	All districts Except South District
5	Peste des Petits Ruminants	One	East District
6	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 the month of April 2025 for Sikkim

Districts of Sikkim	Livestock Diseases						
	ASF	Babesiosis	BQ	CSF	PPR	Theileriosis	Total No of Disease Risk per District
East District	<i>VHR</i>	<i>VHR</i>	<i>HR</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>	-	-	-	-	-	1
West District	<i>VHR</i>	<i>VHR</i>	-	<i>VHR</i>	-	-	3
Total No of District at Disease risk	4	2	1	3	1	1	12

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 with timely boosters for CSF, BQ, PPR, Theileriosis and implement prophylactic treatment for Babesiosis and biosecurity measures for ASF alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

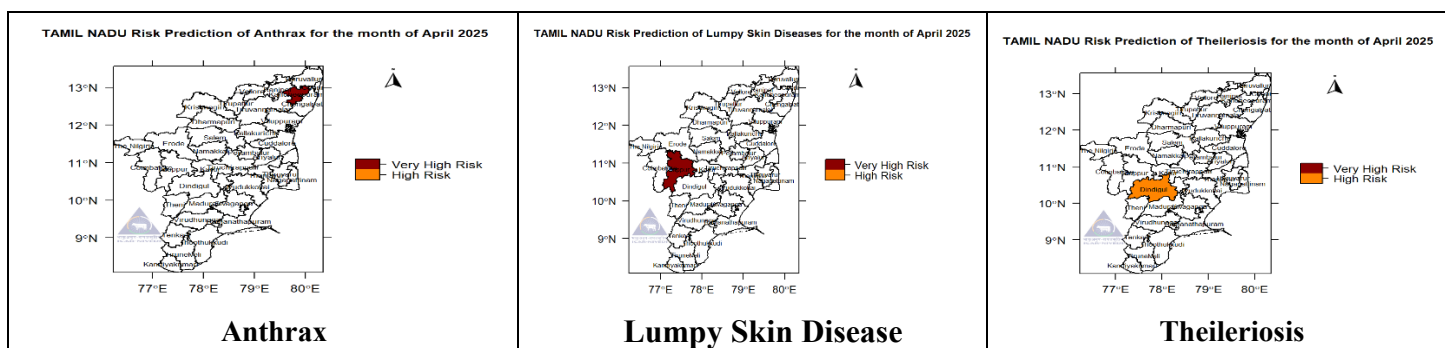
3.31. Tamil Nadu

The livestock disease forecast for **Tamil Nadu** for **April 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, Anthrax (1 district) and Lumpy Skin 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 Tamil Nadu during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Anthrax	One	Kancheepuram
2	Lumpy Skin Disease	One	Tiruppur
3	Theileriosis	One	Dindigul

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 the month of April 2025 for Tamil Nadu

Districts of Tamil Nadu	Livestock Diseases			
	Anthrax	LSD	Theileriosis	Total No of Disease Risk per District
Dindigul	-	-	<i>HR</i>	1
Kancheepuram	<i>VHR</i>	-	-	1
Tiruppur	-	<i>VHR</i>	-	1
Total No of District at Disease risk	1	1	1	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 with timely boosters for Anthrax, LSD and Theileriosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

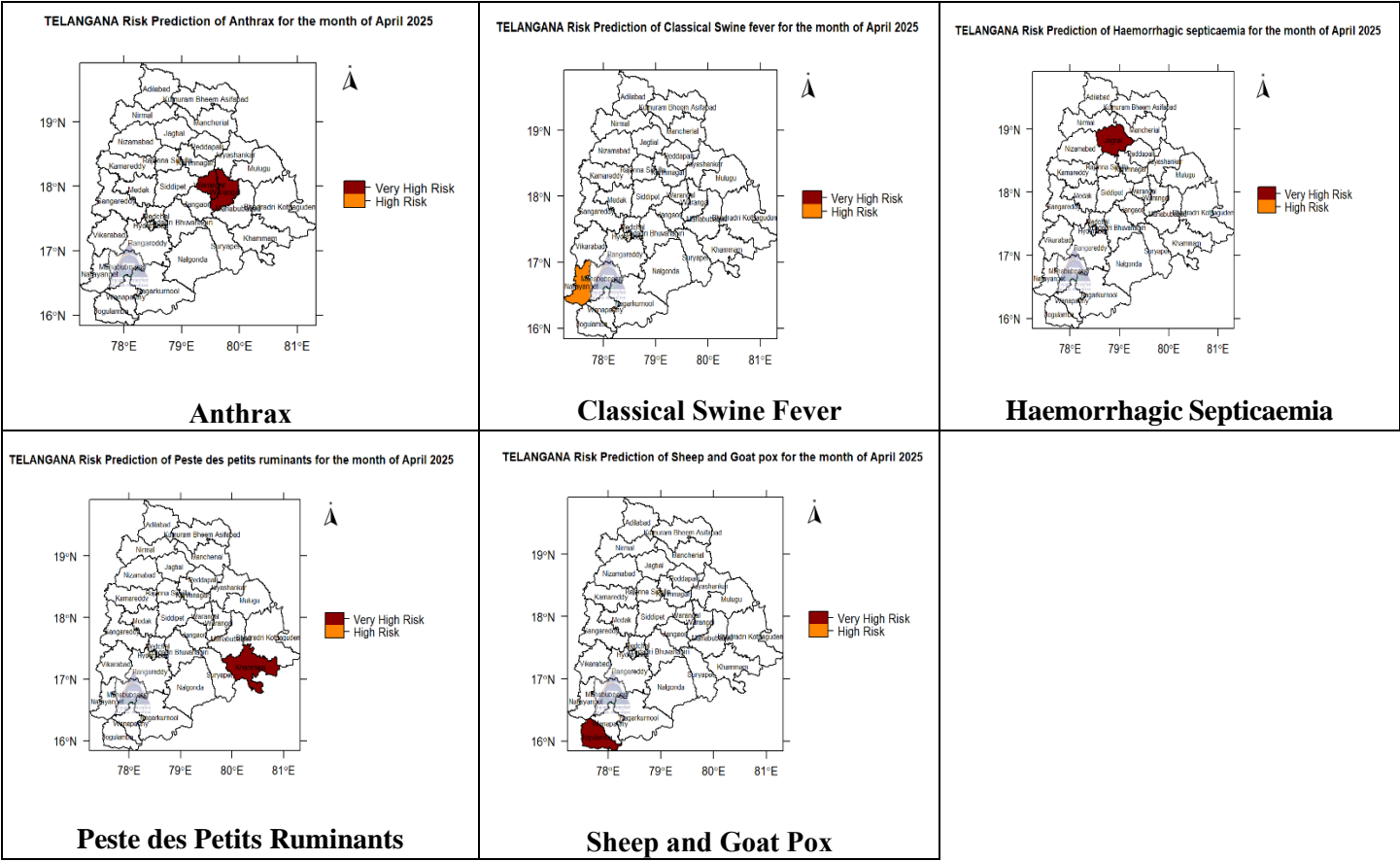
3.32. Telangana

The livestock disease forecast for **Telangana** for **April 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, Anthrax (1 district), Classical Swine Fever (1 district), Haemorrhagic Septicaemia (1 district), Peste des Petits Ruminants (1 district) and 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 April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Anthrax	One	Warangal
2	Classical Swine Fever	One	Narayanpet
3	Haemorrhagic Septicaemia	One	Jagtial
4	Peste des Petits Ruminants	One	Khammam
5	Sheep and Goat Pox	One	Jogulamba

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 the month of April 2025 for Telangana

Districts of Telangana	Livestock Diseases					Total No of Disease Risk per District
	Anthrax	CSF	HS	PPR	S&G Pox	
Jagtial	-	-	<i>VHR</i>	-	-	1
Jogulamba	-	-	-	-	<i>VHR</i>	1
Khammam	-	-	-	<i>VHR</i>	-	1
Narayanpet	-	<i>HR</i>	-	-	-	1
Warangal	<i>VHR</i>	-	-	-	-	1
Total No of District at Disease risk	1	1	1	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 with timely boosters for PPR, S & G pox, CSF, HS and Anthrax alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

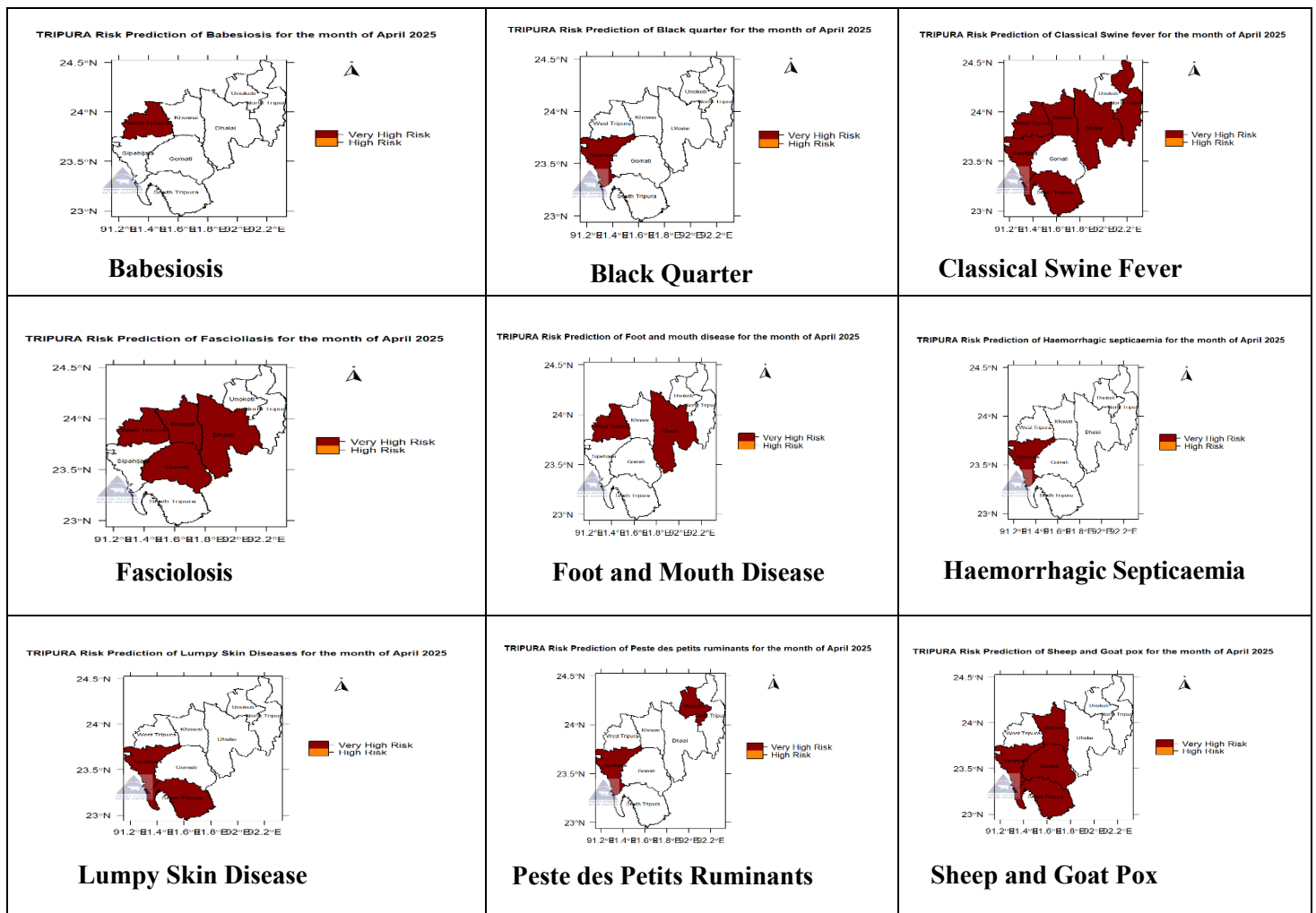
3.33. Tripura

The livestock disease forecast for **Tripura** for **April 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for **9** major diseases. Among these, Classical Swine Fever (6 districts), Sheep and Goat Pox (4 districts) and Fasciolosis (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 Tripura during April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	One	West Tripura
2	Black Quarter	One	Sipahijala
3	Classical Swine Fever	Six	Dhalai, Khowai, North Tripura, Sipahijala, South Tripura and West Tripura
4	Fasciolosis	Four	Dhalai, Gomati, Khowai and West Tripura
5	Foot and Mouth Disease	Two	Dhalai and West Tripura
6	Haemorrhagic Septicaemia	One	Sipahijala
7	Lumpy Skin Disease	Two	Sipahijala and South Tripura
8	Peste des Petits Ruminants	Two	Sipahijala and Unokoti
9	Sheep and Goat Pox	Four	Gomati, Khowai, Sipahijala and South 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 the month of April 2025 for Tripura

Districts of Tripura	Livestock Diseases									
	Babesiosis	BQ	CSF	Fasciolosis	FMD	HS	LSD	PPR	S&G Pox	Total No of Disease Risk per District
Dhalai	-	-	VHR	VHR	VHR	-	-	-	-	3
Gomati	-	-	-	VHR	-	-	-	-	VHR	2
Khowai	-	-	VHR	VHR	-	-	-	-	VHR	3
North Tripura	-	-	VHR	-	-	-	-	-	-	1
Sipahijala	-	VHR	VHR	-	-	VHR	VHR	VHR	VHR	6
South Tripura	-	-	VHR	-	-	-	VHR	-	VHR	3
Unokoti	-	-	-	-	-	-	-	VHR	-	1
West Tripura	VHR	-	VHR	VHR	VHR	-	-	-	-	4
Total No of District at Disease risk	1	1	6	4	2	1	2	2	4	23

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 with timely boosters for CSF, S& G Pox, FMD, LSD, PPR and implement prophylactic treatment for Babesiosis and Fasciolosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

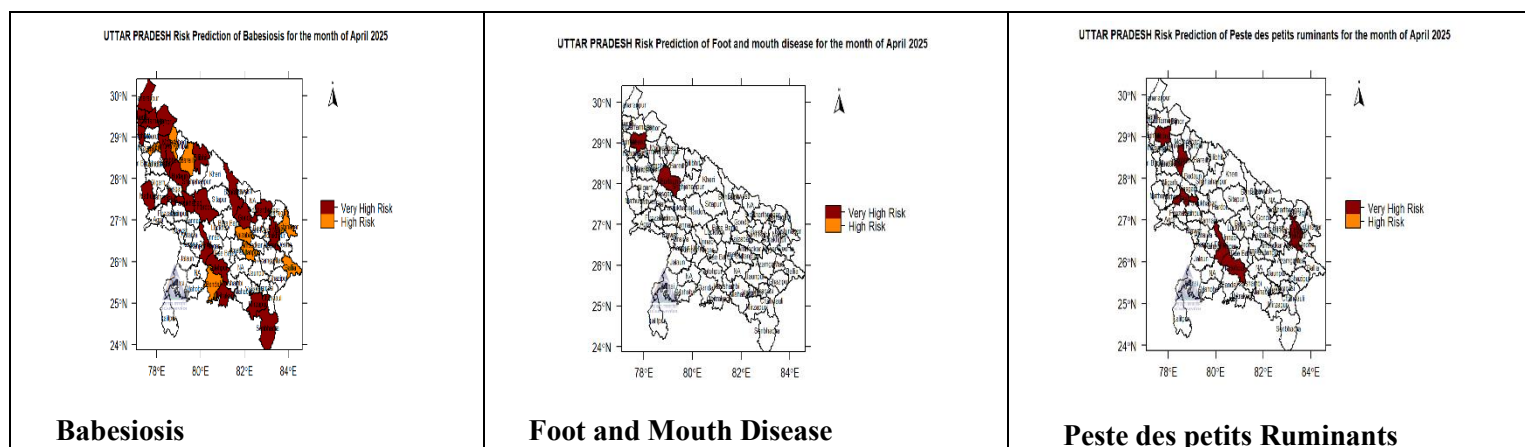
3.34. Uttar Pradesh

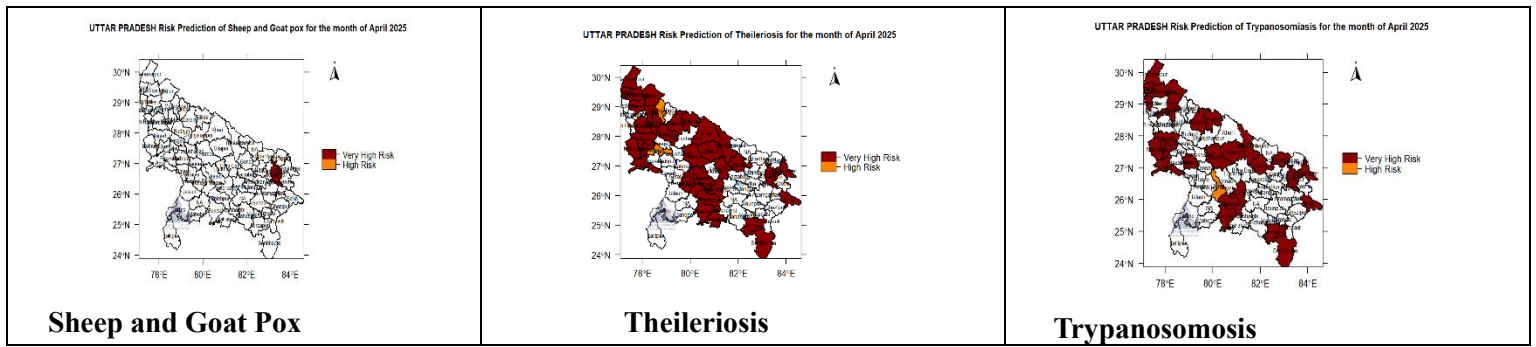
The livestock disease forecast for **Uttar Pradesh** for **April 2025**, generated using NADRES v2, an Artificial Intelligence-powered early warning system, indicates that **some** districts are at **very high risk** for 6 major diseases. Among these, Trypanosomosis (38 districts), Babesiosis (33 districts) 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 April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	Thirty-One	Amroha, Baghpat, Bahraich, Ballia, Banda, Bareilly, Bijnor, Budaun, Chitrakoot, Deoria, Etah, Faizabad, Farrukhabad, Fatehpur, Gonda, Gorakhpur, Hapur, Hardoi, Kanpur Nagar, Kushinagar, Mathura, Mirzapur, Moradabad, Muzaffarnagar, Pilibhit, Pratapgrah, Saharanpur, Sambhal, Shamli, Sidharthnagar, Sonbhadra and Sultanpur
2	Foot and Mouth Disease	Two	Budaun and Meerut
3	Peste des Petits Ruminants	Six	Etah, Fatehpur, Gorakhpur, Kanpur Nagar, Meerut and Sambhal
4	Sheep and Goat Pox	One	Gorakhpur
5	Theileriosis	Thirty-Six	Agra, Aligarh, Amroha, Bahraich, Ballia, Banda, Bara, Banki, Bareilly, Bijnor, Budaun, Bulandshahr, Chitrakoot, Etah, Fatehpur, Gonda, Gorakhpur, Hardoi, Hathras, Kanpur, Dehat, Kanpur Nagar, Kheri, Kushinagar, Mathura, Meerut, Mirzapur, Moradabad, Muzaffarnagar, Pilibhit, Pratapgarh, Rae Bareli, Saharanpur, Sambhal, Shamli, Sitapur, Sonbhadra and Unnao
6	Trypanosomosis	Twenty-Nine	Agra, Aligarh, Amroha, Baghpat, Bahraich, Ballia, Banda, Bareilly, Bijnor, Fatehpur, Gonda, Gorakhpur, Hapur, Hardoi, Hathras, Kanpur Nagar, Kushinagar, Mainpuri, Mathura, Muzaffarnagar, Pilibhit, Pratapgarh, Rae Bareli, Saharanpur, Shamli, Siddharthnagar, 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 the month of April 2025 for Uttar Pradesh

Districts of Uttar Pradesh	Livestock Diseases						
	Babesiosis	FMD	PPR	S& G pox	Theileriosis	Trypanosomosis	Total No of Disease Risk per District
Agra	-	-	-	-	<i>VHR</i>	<i>VHR</i>	1
Aligarh	-	-	-	-	<i>VHR</i>	<i>VHR</i>	2
Amroha	<i>VHR</i>	-	-	-	<i>VHR</i>	<i>VHR</i>	3
Baghpat	<i>VHR</i>	-	-	-	-	<i>VHR</i>	2
Bahraich	<i>VHR</i>	-	-	-	<i>VHR</i>	<i>VHR</i>	3
Ballia	<i>HR</i>	-	-	-	<i>VHR</i>	<i>VHR</i>	3
Banda	<i>HR</i>	-	-	-	<i>VHR</i>	<i>VHR</i>	3
Bara Banki	-	-	-	-	<i>VHR</i>	-	1
Bareilly	<i>HR</i>	-	-	-	<i>VHR</i>	<i>VHR</i>	3
Bijnor	<i>VHR</i>	-	-	-	<i>VHR</i>	<i>VHR</i>	3
Budaun	<i>VHR</i>	<i>VHR</i>	-	-	<i>VHR</i>	-	3
Bulandshahr	-	-	-	-	<i>VHR</i>	-	1
Chitrakoot	<i>VHR</i>	-	-	-	<i>VHR</i>	-	2
Etah	<i>VHR</i>	-	<i>VHR</i>	-	<i>HR</i>	-	3
Faizabad	<i>HR</i>	-	-	-	-	-	1
Farrukhabad	<i>VHR</i>	-	-	-	-	-	1
Fatehpur	<i>VHR</i>	-	<i>VHR</i>	-	<i>VHR</i>	<i>VHR</i>	4
Gonda	<i>VHR</i>	-	-	-	<i>VHR</i>	<i>VHR</i>	3
Gorakhpur	<i>VHR</i>	-	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	<i>VHR</i>	5
Hapur	<i>HR</i>	-	-	-	-	<i>VHR</i>	2
Hardoi	<i>VHR</i>	-	-	-	<i>VHR</i>	<i>VHR</i>	3
Hathras	-	-	-	-	<i>VHR</i>	<i>VHR</i>	2
Kanpur Dehat	-	-	-	-	<i>VHR</i>	-	1
Kanpur Nagar	<i>VHR</i>	-	<i>VHR</i>	-	<i>VHR</i>	<i>HR</i>	4
Kheri	-	-	-	-	<i>VHR</i>	-	1
Kushinagar	<i>HR</i>	-	-	-	<i>VHR</i>	<i>VHR</i>	3
Mainpuri	-	-	-	-	-	<i>VHR</i>	1
Mathura	<i>VHR</i>	-	-	-	<i>VHR</i>	<i>VHR</i>	3

Districts of Uttar Pradesh	Livestock Diseases						
	Babesiosis	FMD	PPR	S & G Pox	Theileriosis	Trypanosomosis	Total No of Disease Risk per District
Meerut	-	VHR	VHR	-	VHR	-	3
Mirzapur	VHR	-	-	-	VHR	VHR	3
Moradabad	HR	-	-	-	HR	-	2
Muzaffarnagar	VHR	-	-	-	VHR	VHR	3
Pilibhit	VHR	-	-	-	VHR	VHR	3
Pratapgarh	HR	-	-	-	VHR	HR	3
Rae Bareli	-	-	-	-	VHR	VHR	2
Saharanpur	VHR	-	-	-	VHR	VHR	3
Sambhal	VHR	-	VHR	-	VHR	-	3
Shamli	VHR	-	-	-	VHR	VHR	3
Siddharthnagar	VHR	-	-	-	-	VHR	2
Sitapur	-	-	-	-	VHR	VHR	2
Sonbhadra	VHR	-	-	-	VHR	VHR	3
Sultanpur	HR	-	-	-	-	-	1
Unnao	-			-	VHR	-	1
Total No of District at Disease risk	31	2	6	1	36	29	105

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 with timely boosters for Theileriosis, PPR, FMD, S&G Pox and implement prophylactic treatment for Babesiosis and Trypanosomosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

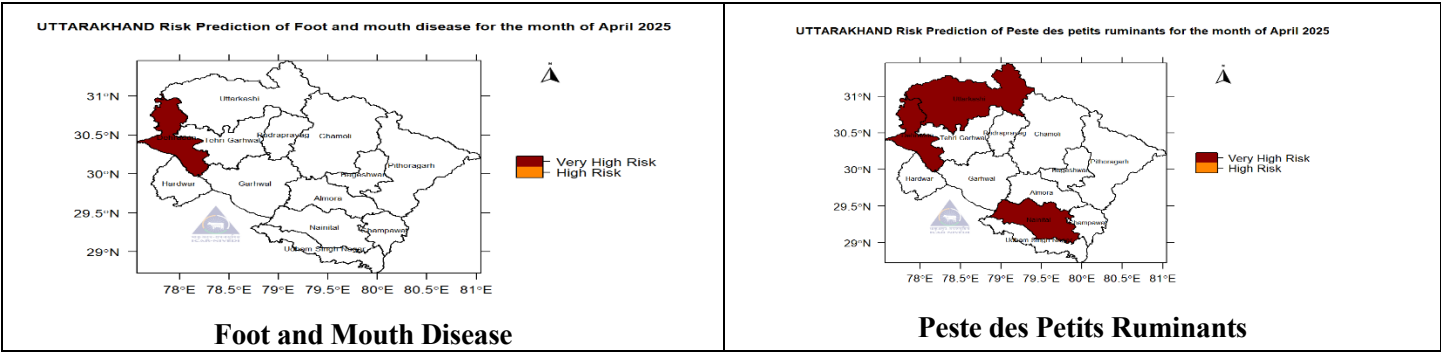
3.35. Uttarakhand

The livestock disease forecast for **Uttarakhand** for **April 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, Peste des Petits Ruminants (3 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 April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Foot and Mouth Disease	One	Dehradun
2	Peste des Petits Ruminants	Three	Dehradun, Nainital and Uttarkashi

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 the month of April 2025 for Uttarakhand

Districts of Uttarakhand	Livestock Diseases		
	FMD	PPR	Total No of Disease Risk per District
Dehradun	VHR	VHR	2
Nainital	-	VHR	1
Uttarkashi	-	VHR	1
Total No of District at Disease risk	1	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 with timely boosters for PPR and FMD alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

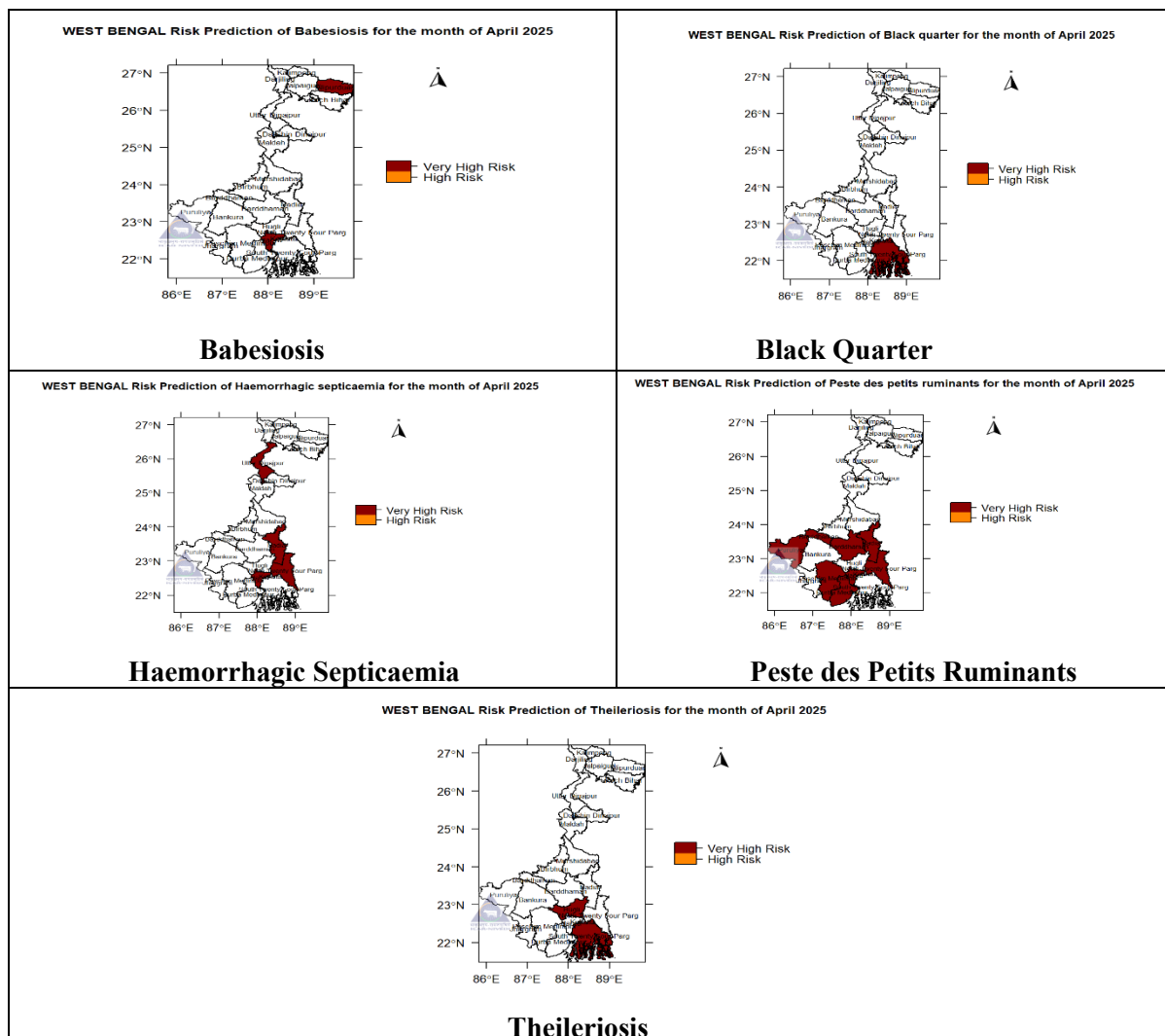
3.36. West Bengal

The livestock disease forecast for **West Bengal** for **April 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 April 2025

Sl. No.	Disease Name	Number of districts predicted	Names of Districts
1	Babesiosis	Two	Alipurduar and Haora
2	Black Quarter	One	South Twenty-Four Parg
3	Haemorrhagic Septicaemia	Four	Haora, Nadia, North Twenty Four Parg and Uttar Dinjapur
4	Peste des petits ruminants	Seven	Bardhaman, Haora, Nadia, North Twenty-Four Parg, Paschim Medinipur, Purba Medinipur and Puruliya
5	Theileriosis	Two	Hugli and South Twenty Four Parg

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 the month of April 2025 for West Bengal

Districts of West Bengal	Livestock Diseases					Total No of Disease Risk per District
	Babesiosis	BQ	HS	PPR	Theileriosis	
Alipurduar	<i>VHR</i>	-	-	-	-	1
Bardhaman	-	-	-	<i>VHR</i>	-	2
Haora	<i>VHR</i>	-	<i>VHR</i>	<i>VHR</i>	-	3
Hugli	-	-	-	<i>VHR</i>	<i>VHR</i>	2
Nadia	-	-	<i>VHR</i>	-	-	1
North Twenty Four Parg	-	-	<i>VHR</i>	<i>VHR</i>	-	2
Paschim Medinipur	-	-	-	<i>VHR</i>	-	1
Purba Medinipur	-	-	-	<i>VHR</i>	-	1
Puruliya	-	-	-	<i>VHR</i>	-	1
South Twenty Four Parg	-	<i>VHR</i>	-	-	<i>VHR</i>	3
Uttar Dinajpur	-	-	<i>VHR</i>	-	-	1
Total No of District at Disease risk	2	1	4	7	2	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 with timely boosters for PPR, HS, Theileriosis, BQ and implement prophylactic treatment for Babesiosis alongside routine testing in VHR districts to enable early disease detection. Additionally, adopt effective snail control measures, and conduct farmer training on disease management and biosecurity practices.

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 **January 2025**, a total of **18,08,739** SMS alerts were sent to farmers.

Table A: Number of famers received the SMS alert through FRUITS application during **January-2025**

Disease	Districts	Number of Farmer Received SMS	Disease	Districts	Number of Farmer Received SMS
Anthrax	Bellary	3837	Foot and Mouth Disease	Chikkaballapura	48204
	Chitradurga	23636		Chikmagalur	21741
	Davanagere	36624		Davanagere	36624
	Gulbarga	9800		Gulbarga	9800
	Koppal	22745		Hassan	103744
	Tumkur	117112		Kolar	37136
Black Quarter	Chamarajanagara	34107		Mandya	134373
	Chikmagalur	21741		Mysore	142292
	Davanagere	36624		Ramanagara	68632
	Hassan	103744		Tumkur	117112
	Haveri	37541		Uttara Kannada	17385
	Mysore	142292	Haemorrhagic Septicaemia	Chitradurga	23637
	Ramanagara	68626		Dakshina Kannada	43264
	Shimoga	48464		Davanagere	36625
	Uttara Kannada	17384		Tumkur	117112
			Lumpy Skin Disease	Davanagere	36625
Foot and Mouth Disease	Bangalore Rural	42400		Yadgir	485
	Bidar	13164			
	Chamarajanagara	34107			
TOTAL					18,08,739

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 **January 2025** is detailed in Table B, which outlines the number of alerts sent to veterinarians. During this period, a total of **7,885** 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 **January 2025**

SI No.	State Name	No. of District Risk Predicted	Total SMS Sent
1	Karnataka	27	1995
2	Kerala	14	4186
3	Nagaland	3	15
4	Tamil Nadu	9	22
5	West Bengal	12	1667
TOTAL		65	7885



Customer/Client Feedback Form

Feedback for the Livestock Diseases Risk Forewarning Bulletin of February-2025, Volume 13 and Issue 02
(Please return this duly fill in after receiving the outbreak report of April-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:

List of NADEN Centres, Principal Investigators and Co-Principal Investigators

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