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for Animal Health



FMD situation Mongolia

SEACFMD Campaign

Progress: 2021 - 2025

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Officer of General authority for veterinary service,
Mongolia

27th SEACFMD National Coordinators Meeting
20 – 22 August 2025, Luang Prabang, Lao PDR

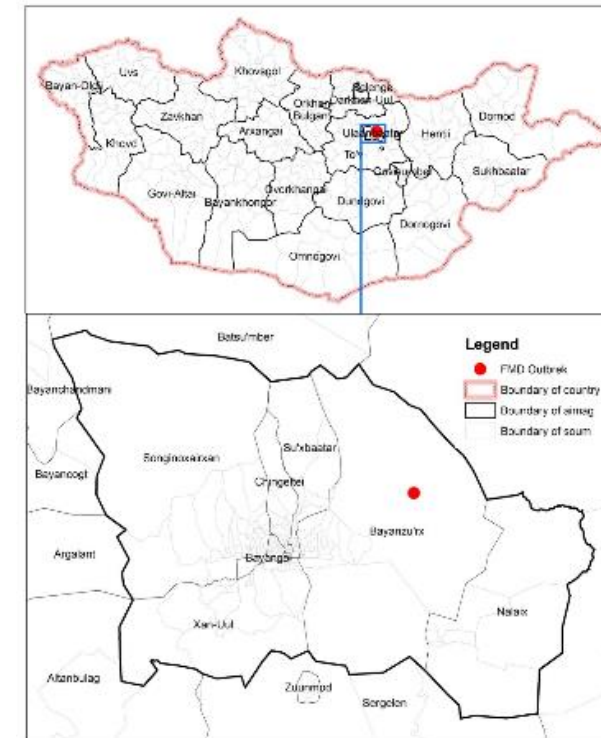
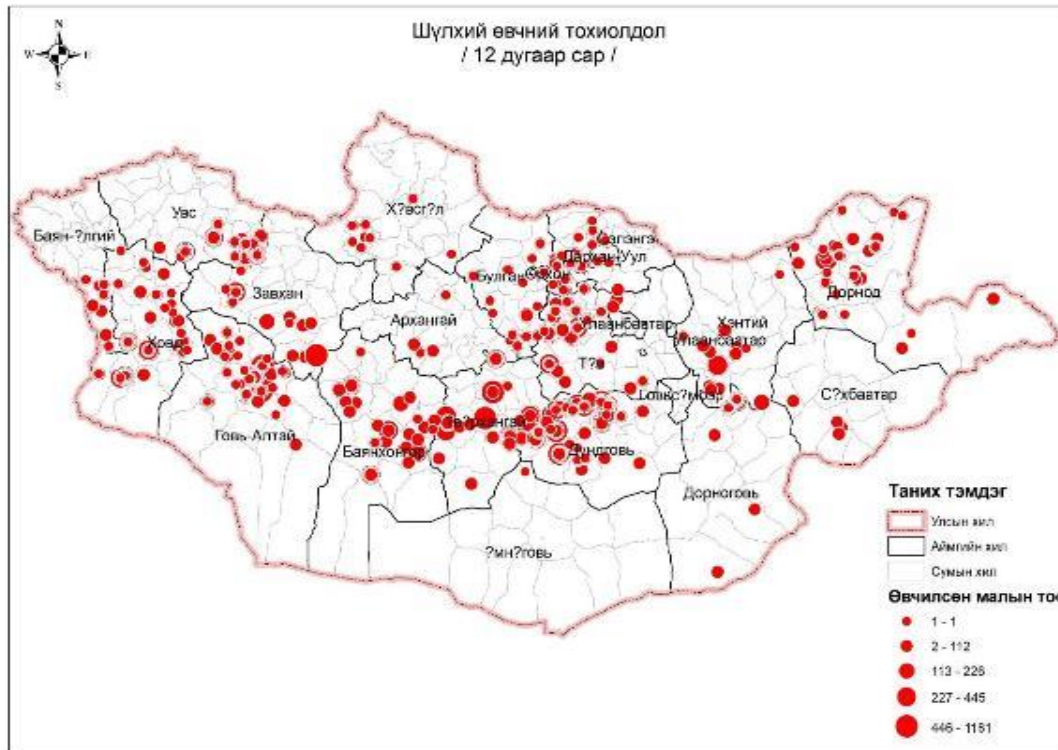
FMD situation in 2024 and 2025

- **FMD:** Last outbreak was in end of 2022

- **Type and subtype;** O-Ind-2001 (O/ME-SA/Ind-2001e)

Alarm; New FMD case in small ruminants reported in Ulaanbaatar city, July, 2025.

- **Type;** O



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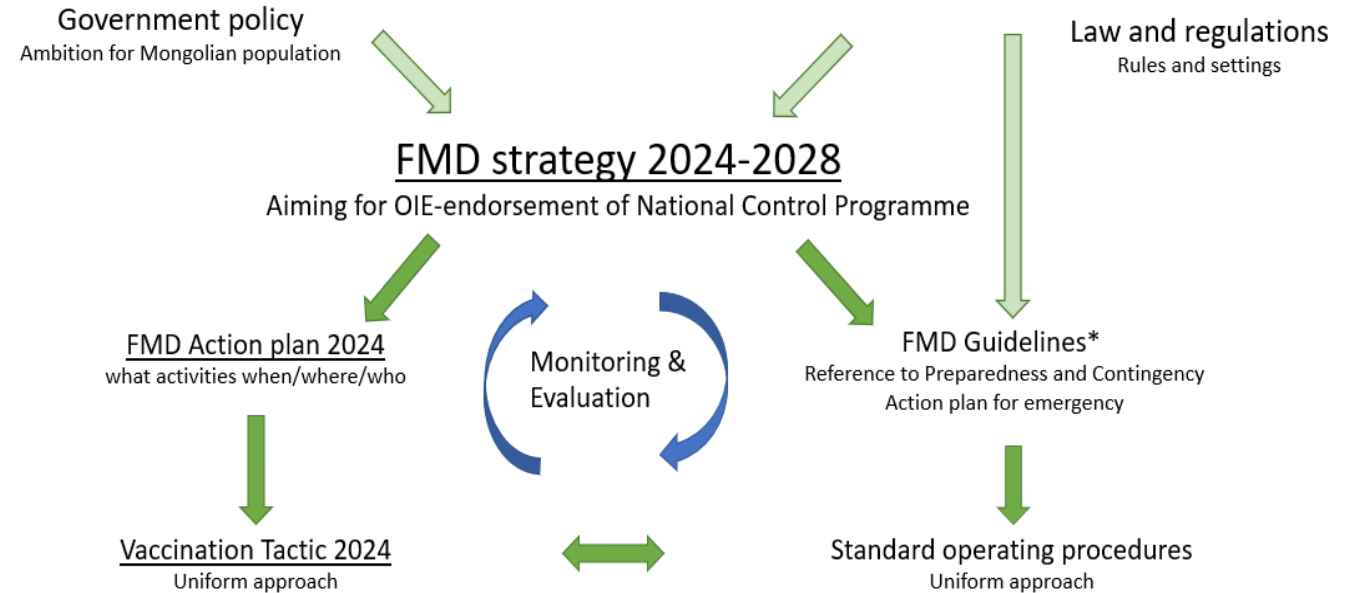


FMD Prevention and Control activities

Control measures: In Mongolia

- There are five technical elements for FMD.
 - Legal framework
 - FMD National Strategy Plan – official control programme
 - National preparedness plan for TADs
 - National contingency plan for control of FMD
 - Surveillance
 - Diagnostic
 - Prevention and Control
 - Stakeholder involvement

FMD control measures



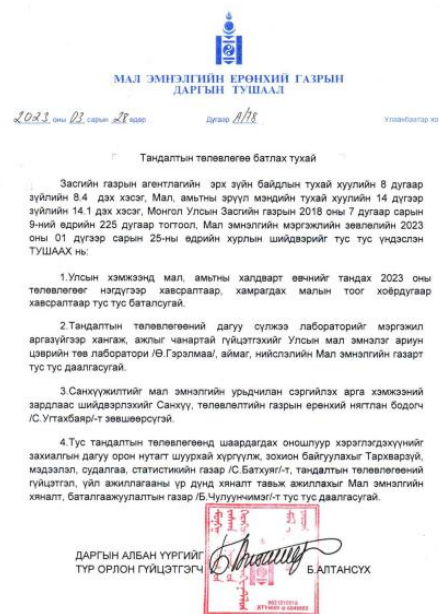
Under the OCP-FMD, seven objectives were defined to support the long-term national strategic goals to eliminate FMDV circulation in the domestic animal population in Mongolia and to achieve the WOA status of FMD-free without vaccination by 2030. For the next 5 years, the following seven strategic objectives form the basis of defining the annual workplan:

Strategy; Comprehensive prevention and control measures that focus on prevention and combine vaccination with culling
Key measures; Vaccination, enhancing biosecurity, surveillance, epi investigation, movement control, culling and safety disposal ----- ZONING AND COMPARTMENTALIZATION

FMD Prevention and Control activities

Surveillance for TADs

TADs active and passive surveillance was approved by GAVS in every year under “National strategy for the control and eradication of TADs”



PLAN OF INFECTIOUS AND VACCINE MONITORING-2024												
Д/Д	Name of diseases	I cap	II cap	III cap	IV cap	V cap	VI cap	VII cap	VIII cap	IX cap	X cap	XI cap
SERO-SURVEILLANCE												
1	FMD		(1,2)	1	3	1	3	1	3	(2) Ийлдсийн тандалт		
										Эрт илрүүлгийн үзлэг тандалт (EWAR)		
2	PPR		(1,2)	1	3	1	3	1	3	(2) Ийлдсийн тандалт		
										Эрт илрүүлгийн үзлэг тандалт (EWAR)		
3	SGP									Өвчин гарсан үед яаралтай хийнэ (2)		
										Эрт илрүүлгийн үзлэг тандалт (EWAR)		
4	LSD									Өвчин гарсан үед яаралтай хийнэ (2)		
										Эрт илрүүлгийн үзлэг тандалт (EWAR)		
5	TAD's for wildlifes								(1,2,5)	1	3	1
										3	1	3
										(2)ит		
VACCINE MONITORING												
6	FMD vaccine monitoring (PVM)					1		(1,2)	(3) сорьц	(2)ит		
7	PPR vaccine monitoring (PVM)							1	(1,2)	(3) сорьц	(2)ит	
8	Brucellosis vaccine monitoring									1	(1,2)	(3) сорьц
											(2)ит	



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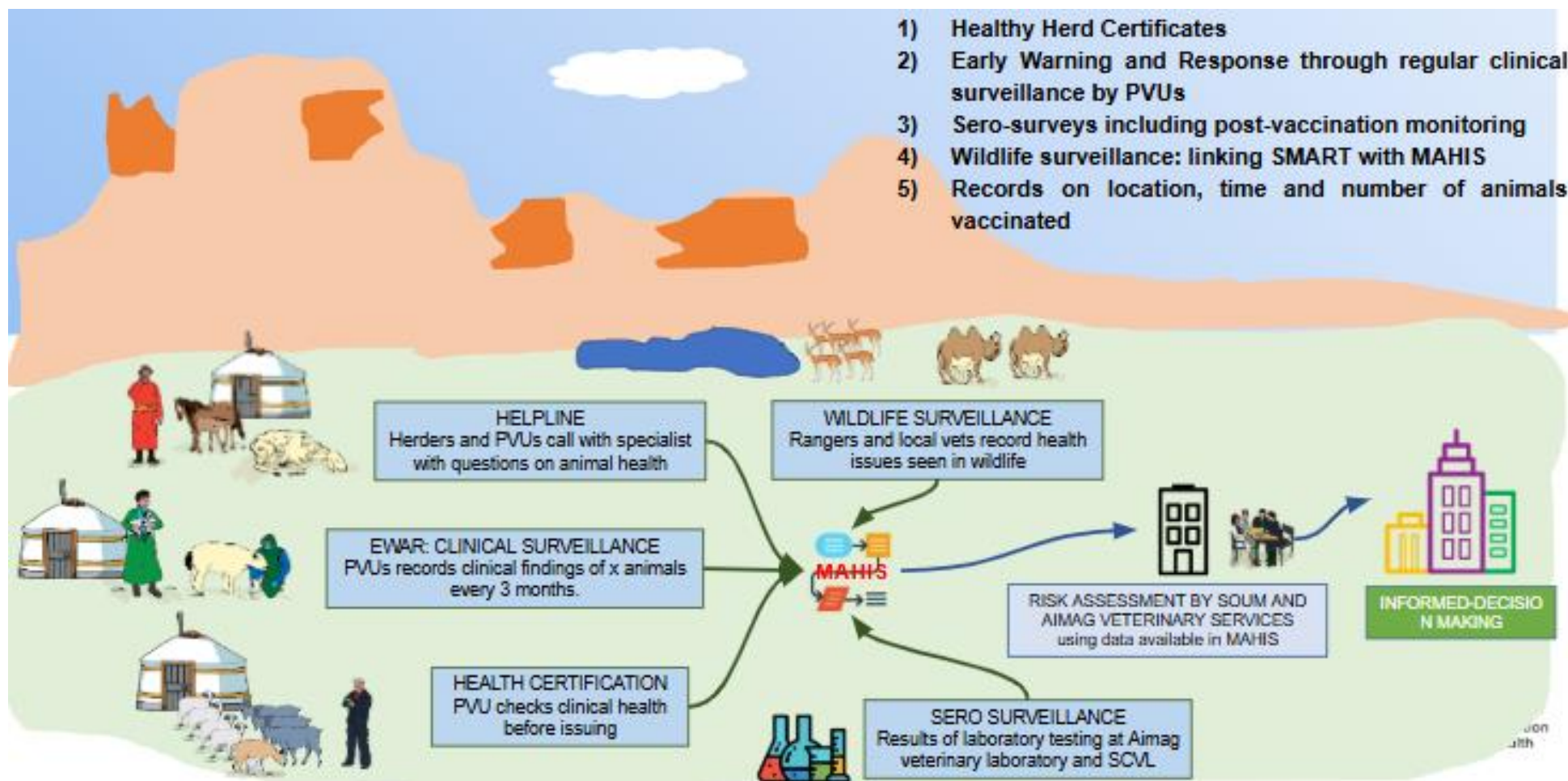
FMD Prevention and Control activities

Surveillance

- a surveillance system has been introduced nationwide in Mongolia to implement preventive measures against foot-and-mouth disease (FMD).
 - active
 - Passive
 - early warning and awareness response (EWAR) – each month
 - Participatory epidemiology – only 5 provinces, 2 times each year
 - Syndromic surveillance-based questionnaire – per each season
 - Pilot Help line by operator
- Using the MAHIS system, connections are made with all private veterinarians across the country to collect information on suspected disease cases. The results are compiled by the General Authority for Veterinary Services and disseminated to the public on a weekly and monthly basis through social media, along with awareness-raising and educational activities

FMD Prevention and Control activities

Use of Epidemiological tools - Surveillances for TADs



FMD Prevention and Control activities

Use of Epidemiological tools - Surveillances

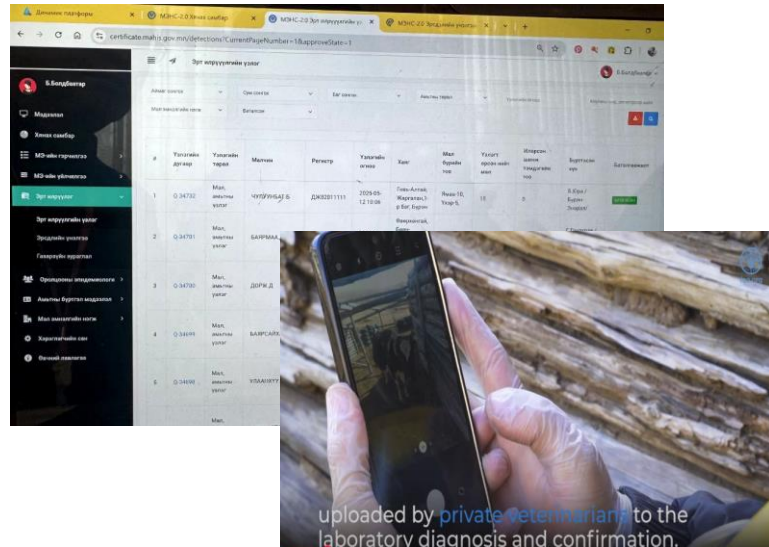


A Herder Helpline option was elaborated as an additional surveillance component. Its objective was to offer herders and veterinary practitioners the option to place a call to a free number (7505 6655) on any subject related to animal health. (<https://youtu.be/HbPUEwAU9Y>; <https://youtu.be/N87Af7UkFLc>).

This pilot was conducted between July and October 2021 in three aimags (Sukhbaatar in Eastern, Uvurkhangai in Central and Khovd in Western region), involving 151 private vets. Over a period of 5 months, almost 6,500 herds and 165,000 heads of livestock were examined. As result of this pilot, the CVO issued a new regulation that was named Early Warning and Response (EWAR) in August 2022. More than 1,100 soum inspectors, soum epidemiologists and private veterinarians were trained across Mongolia based on three manuals that had been developed.

FMD Prevention and Control activities

EWAR: Clinical surveillance (Passive surveillance)



PVUs records clinical findings of x animals every routine works

None of these notifications led to confirmation of presence of clinical FMD in the herds

The screenshot shows the EWAR system interface with a table of notifications. The table has the following columns: #, Уэлэгийн дугаар, Уэлэгийн төрөл, Малчин, Регистр, Уэлэгийн огноо, Хаяг, Мал бүрийн тоо, Уэлэгт орсон нийт мал, Илэрсэн шинж тэмдэгийн тоо, Бүртгэсэн хүн, and Баталгаажилт.

#	Уэлэгийн дугаар	Уэлэгийн төрөл	Малчин	Регистр	Уэлэгийн огноо	Хаяг	Мал бүрийн тоо	Уэлэгт орсон нийт мал	Илэрсэн шинж тэмдэгийн тоо	Бүртгэсэн хүн	Баталгаажилт
1	Q-34732	Мал, амьтны үзлэг	ЧУЛУУНБАТ.Б	ДЖ8201111	2025-05-12 10:06	Говь-Алтай, Жаргалан, 1-р баг, Бүрэн	Ямаа-10, Үхэр-5	15	0	Б.Юра / Бүрэн-Энэрэл /	БАТАЛСАН
2	Q-34701	Мал, амьтны үзлэг	БАЯРМАА.Д	ЙГ77073115	2025-05-11 23:35	Өвөрхангай, Баян-Өндөр, 3-р баг, Өвөр зүлэгт	Хонь-120,	120	1	Г.Гантүрээ / Тэрмийн буян /	БАТАЛСАН
3	Q-34700	Мал, амьтны үзлэг	ДОРЖ.Д	ЙГ76082917	2025-05-11 23:35	Өвөрхангай, Баян-Өндөр, 3-р баг, Өвөр зүлэгт	Хонь-160, Ямаа-10, Үхэр-5	175	0	Г.Гантүрээ / Тэрмийн буян /	БАТАЛСАН
4	Q-34699	Мал, амьтны үзлэг	БАЯРСАЙХАН.Д	ЙГ84051511	2025-05-11 23:35	Өвөрхангай, Баян-Өндөр, 3-р баг, Өвөр зүлэгт	Үхэр-25, Хонь-90, Ямаа-10	125	1	Г.Гантүрээ / Тэрмийн буян /	БАТАЛСАН
5	Q-34698	Мал, амьтны үзлэг	УЛААНХҮҮ.Л	ЙГ95110219	2025-05-11 23:35	Өвөрхангай, Баян-Өндөр, 3-р баг, Өвөр зүлэгт	Хонь-111,	111	0	Г.Гантүрээ / Тэрмийн буян /	БАТАЛСАН
		Мал,			2025-05-	Өвөрхангай, Баян-Өндөр, 3-р баг, Өвөр зүлэгт	Хонь-142, Ямаа-236	383	0	Г.Гантүрээ / Тэрмийн буян /	БАТАЛСАН

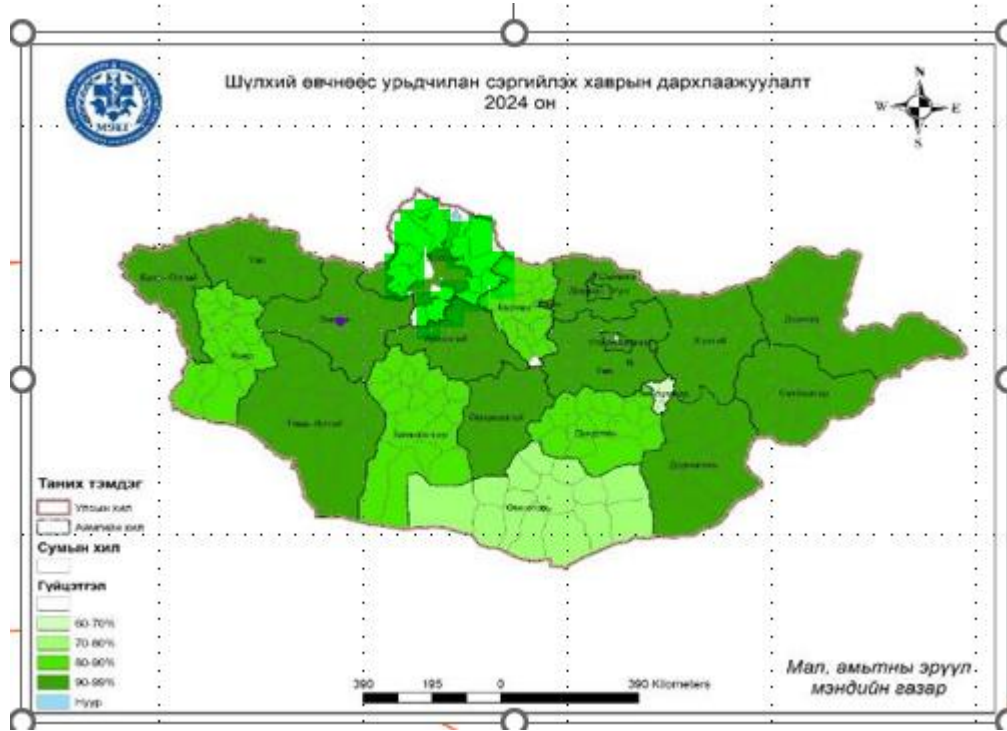
FMD Prevention and Control activities

Serological Surveillance in 2024

- A total of 10,080 samples were tested in 22 aimags, in 202 soums in 630 hot-ails
 - A total of 251 (2,5% [2,0-3,0%]) samples tested positive with a clear difference between cattle and yaks (1,8% [95% CI:1,1-2,5]) compared with small ruminants (2,7% [95%: 2,2-3,3%]) testing positive to NSP-Ab against FMD (Chisquare test, P-value < 0,01).
 - two categories: 4 to 11 months, 12 months and older
- the sero-survey results at hotail level, there were 94 out of 630 hotails with one or more animals testing sero-positive.
- At national level, this translated to 15% [95%CI: 12–18%] or between one in four hotails having indication of FMD virus infection across Mongolia.

There was great variability between aimags. No NSP-Ab positive hotails were tested in Bayankhongor, Govi-Altai, Govisumber, Darkhan-Uul, Ulaanbaatar, Uvurkhangai and Umnogobi.

FMD Prevention and Control activities



- The vaccination tactic for 2024-2029 is nationwide vaccination of all large ruminants, deer and pigs, every six months (Spring and Autumn). This is a continuation of the successful application of FMD vaccine to contain the FMD outbreaks in 2021 and 2022

- For the vaccination of livestock, preventive and in case of emergencies, ARRIAH oil-emulsion vaccines with serotypes O and A are used. This vaccine is registered in 2018 under the provision of registering of imported vaccines

FMD vaccination plan: twice in a year apart six month only for cattle (targeted species) until 2029



FMD Prevention and Control activities

Vaccination in 2024

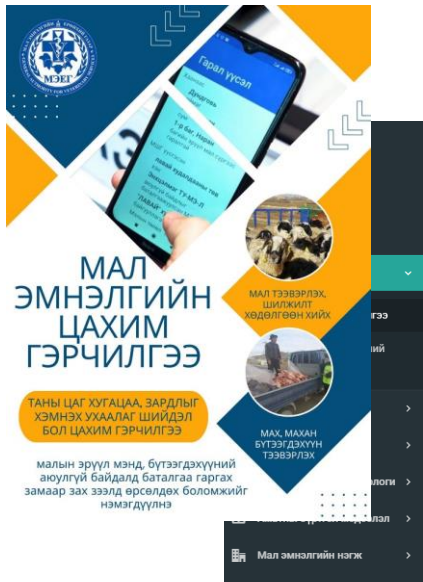
	Spring vaccination							
	Province	Soum	Reindeer	Cattle	Sheep	Goat	Pig	Total
1	22	298	-	4'184'874	-	-	22'632	4'207'506
	Autum vaccination							
	Province	Soum	Reindeer	Cattle	Sheep	Goat	Pig	Total
2	13	115	-	2'329'173	-	-	19'610	2'348'783
	22	336	-	6'541'047	-	-	42'242	6'556'289

A total of 10.5 million doses of G/Asia/Sea-97 and O/ME-SA/ind2011e strain vaccines were purchased from ARRIAH of Russia in 2024. Vaccination was organized in May-July and November-December 2024, and covered 87.9% of total animals.

The vaccination tactic for 2024-2029 is nationwide vaccination of all large ruminants, deer and pigs, every six months (spring an autumn).

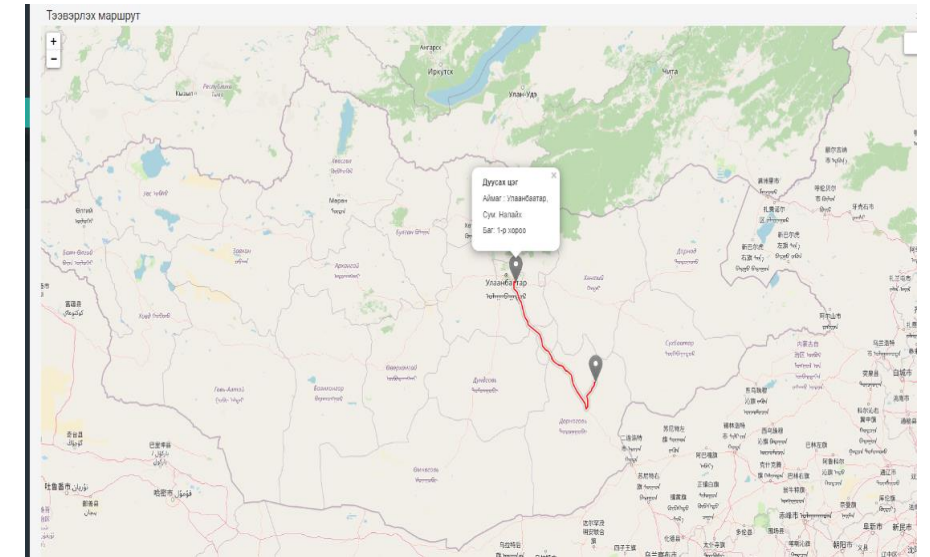
FMD Prevention and Control activities

Movement of animals is controlled under the MAHIS



Аймаг сонгох	Сум сонгох	Баг сонгох	2025/05/14 - 2025/08/14	Бүгд	Гэрчилгээний зори...
Амьтны төрөл	Бүтээгдэхүүний тө...	МЭГ дугаар	Малчны нэр, регистрээр	Хүлээн авагчаар хайх	Мал эмнэлгийн нэ...
Шалгалтын цаг	Гэрчилгээний төлөв			МЭГ шалгах	

№	МЭГ дугаар	Хаанаас	Хүлээн авагчийн нэр	Хүлээн авагчийн хаяг	Хүчинтэй хугацаа	Зориулалт	Төлөв	Түүх
1	Meg6107203	БААТАР.Ж (Дорнод, Баянтүмэн, 4-р баг, Хотонт)	Хаан Хүнс	Дорнод, Хэрлэн, 6-р баг	2025/08/14 - 2025/08/21	Бүтээгдэхүүн	БАТАЛГААЖИЛТ ХИЙГЭЭГҮЙ	
2	Meg6107202	НАМЖИЛЖАМЦ.С (Улаанбаатар, Сонгинохайрхан, 21-р хороо)	Т. Эрдэнэтөгс	Говьсүмбэр, Сүмбэр, 2-р баг	2025/08/14 - 2025/08/21	Үржил	БАТАЛГААЖИЛТ ХИЙГЭЭГҮЙ	
3	Meg6107201	АЛТАНБАЯР.Д (Төв, Мөнгөнморьт, 2-р баг, Байдала)	М АГРО	Хэнтий, Хэрлэн, 7-р баг, Номгон	2025/08/14 - 2025/08/15	Амьтан (хэрэгцээлэх)	БАТАЛГААЖИЛТ ХИЙГЭЭГҮЙ	
4	Meg6107200	НАРАНЧУЛУУН.П (Архангай, Ихтамир, 1-р баг, Иктамир)	Хүчитшонхор	Улаанбаатар, Чингэлтэй, 11-р хороо	2025/08/14 - 2025/08/21	Бүтээгдэхүүн	БАТАЛГААЖИЛТ ХИЙГЭЭГҮЙ	



- A total of 336 soums and districts within the 21 provinces and the capital city have implemented the electronic certificate system.

FMD Prevention and Control activities

Daily, weekly,
monthly report
based on
EWAR system



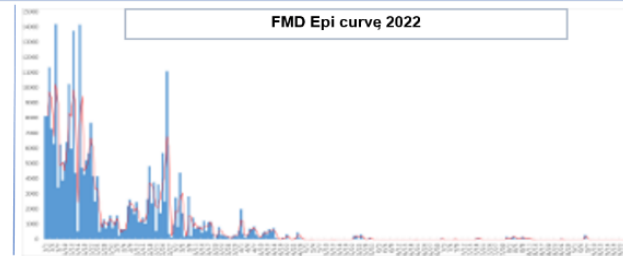
DAILY REPORT OF THE GENERAL AUTHORITY FOR VETERINARY SERVICE

As of 11 October 2022

FMD OUTBREAK (by provinces and soum)



FMD Epi curve 2022



QUARANTINE SITUATION (BY SOUM AND INFECTED ANIMAL NUMBERS)

Provinces
Soums
Infected animal

FMD STATUS

TOTAL INFECTED ANIMALS
359.836

QUARANTINED ANIMALS 0

INFECTED ANIMALS (species and number)



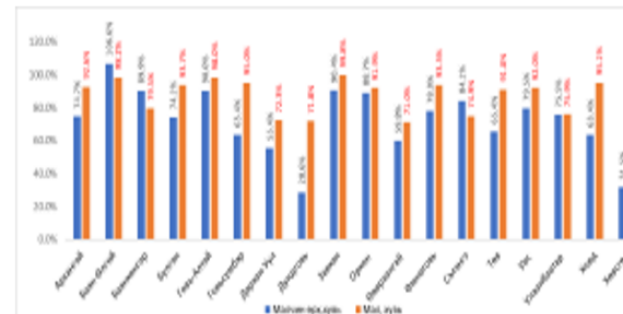
0

DAILY INCREASED NUMBER

СУМ 0
ГОЛОМТ 0
ӨРХ 0
МАЛ 0

PROGRESS OF FALL VACCINATION AGAINST FMD (PERCENTAGE OF PERFORMANCE)

The percentage of herders of FMD vaccination is 73.9,
The percentage of vaccinated animals 68.5



ANIMAL MOVEMENT CONTROL

Registered animals

Horse	Cattle	Sheep	Goat	Camel	Pigs
327	316	2473	2724	99	0

PRODUCTS DELIVERED TO THE CAPITAL CITY FOR FOOD

TRADE	MEAT /TN/		MILK /TN/
	IN RESERVE	FOR PERSONAL USE	
167.0	0	0	56

Cautions



Ask your veterinarian about animal diseases before moving or transporting animals.



Avoid herding or transporting animals through areas with animal diseases, and avoid putting your precious herds and local brethren at risk.



If you see a sick or dead animal, call a veterinarian immediately to protect your herd.

Make sure your cattle are vaccinated against foot-and-mouth disease.



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Social media search of herder and private veterinarian groups



FMD Prevention and Control activities

Communication and awareness activities

- FMD simulation exercise – 2 times in 2024
- Video storks – EWAR, PE, Epidemiology e.g - <https://www.facebook.com/watch/?v=768427258941046>
- Posters
- Pilot Helpline established
- To improve public-private partnerships, regional meetings and seminars are organized twice a year in two regions simultaneously
- digitalisation activities
 - EWAR was launched
 - Integrated SMART
 - Participatory epidemiology to MAHIS



Posters



Veterinary skills competition for TADs

FMD Prevention and Control activities

Stakeholder involvement

Simulation exercise for TADs

Emergency & field practice



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FMD Prevention and Control activities

Stakeholder involvement

Planning, field investigation, survey



Outbreak investigation



Multi-sectoral collaboration & Surveillance



Ministry of Health:

- NCCD
- NCZD

National emergency management agency

Aimag, soums governors



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SEACFMD Campaign Progress (2021 – 2025)

Progress of the implementation of SEACFMD Roadmap 2021 – 2025 based on agreed M&E indicators for the Objective, Outcome and Outputs

No	Indicators	Objective	Outcome	Output
1	1.1. PCP-FMD stage, progress within a stage or FMD-free status, of each SEACFMD member country, annually.	1: Reinvigorated FMD prevention and control in SEACFMD Member Countries	endorsed of official control programme in 2025.	Mongolia managed to move from PCP-Stage 2 in 2022 to PCP-Stage 4
2	1.2. Number of FMD outbreaks reported in 2020		0	After December 2022, no more reported outbreak were seen.
3	1.3. Percentage of reported outbreaks with full investigation including virus characterization, annually.		No virus detected during NSP and and Virological Surveillance	
4	1.4. Preparedness and response capacity to both endemic and new FMD viral strains developed.			
5	2.1. Country ownership of the SEACFMD Campaign enhanced.			
6	2.2. National Veterinary Service capacities assessed and recommendations from PVS Evaluation implemented.			
7	2.3. National legislation related to FMD (and other related TADs) reviewed and revised.			
8	2.4. Multi-disciplinary and multisectoral efforts implemented for control of FMD (and other related TADs).			
9	2.5. Cost-efficient synergies with other livestock activities implemented			
10	2.6. Pool of regional experts actively involved in SEACFMD activities.			

Key challenges and lessons learnt

- Key challenges and lessons learnt during implementation of SEACFMD Roadmap 2021 – 2025
 - FMD, PPR and LSD situation in neighboring areas remains complex, with diverse TADs strains circulating.
 - The FMD virus continues to circulate domestically, and small ruminants remain infected.
 - Herders lack awareness of disease prevention and control.
 - Live animals' long distance movement
- **Any recommended solution to address these challenges**
 - Enhance the knowledge and awareness of herders and veterinarians.
 - Further strengthen the control of the movement of live objectives.
 - Strengthen the construction of FMD free zones and compartmentalization

Priorities and Future Plans

- Reduce FMD virus circulation through implementation of the Official Control Program for FMD 2024-2028 (OCP-FMD 2024).
- Establishing FMD and PPR-free livestock compartments.
- Compulsory vaccination.
- Surveillance and PVM, EWAR.
- Routine Epidemiological Review and feedback.
- Capacity building and Continuous Training.

Proposed Priority Actions

- Priority activities that will be implemented from September 2025 till December 2026.
 - Reduce FMD virus circulation through implementation of the Official Control Program for FMD 2024-2028 (OCP-FMD 2024).
 - Establishing FMD and PPR-free livestock compartments.
 - Compulsory vaccination.
 - Surveillance and PVM, EWAR.
 - Routine Epidemiological Review and feedback.
 - Capacity building and Continuous Training
- Priority actions to be considered for the SEACFMD Roadmap 2026 – 2030
 - Have PVC assessed by WOA
 - To support the capacity building training of specialists in the all field especially epidemiology skills

Constraints and possible solution

Constraints

- FMD, PPR and LSD situation in neighboring areas remains complex, with diverse TADs strains circulating.
- The FMD virus continues to circulate domestically, and small ruminants remain infected.
- Herders lack awareness of disease prevention and control.
- Live animals' long distance movement

Possible solutions

- Enhance the knowledge and awareness of herders and veterinarians.
- Further strengthen the control of the movement of live objectives.
- Strengthen the construction of FMD free zones and compartmentalization





Thank You