







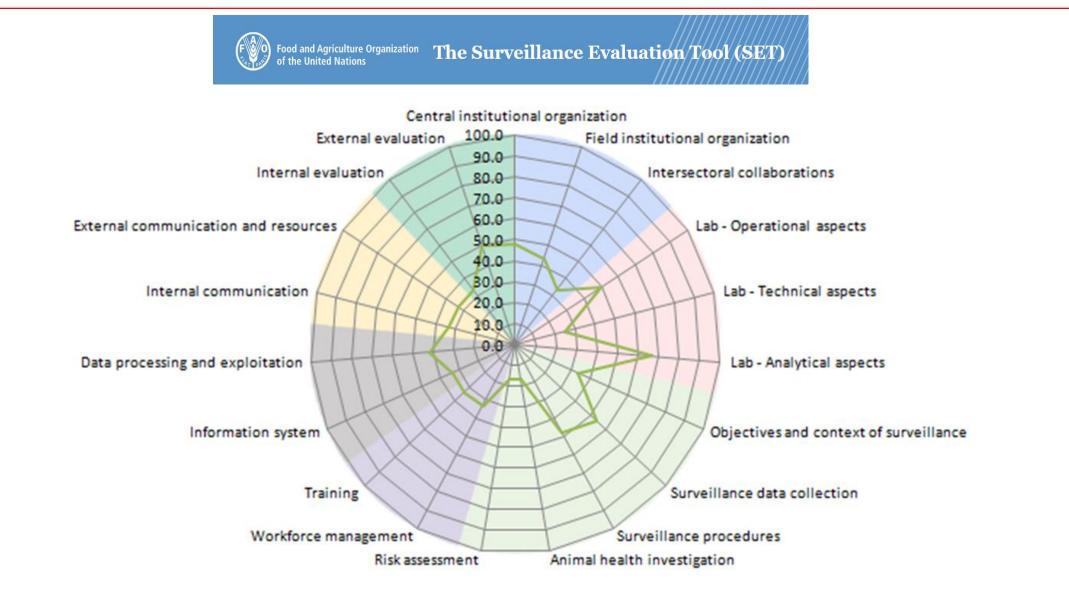
COUNTRY REPORT: MONGOLIA

Presenter: Boldbaatar Byambaa – Head of animal health deprtment , GAVS

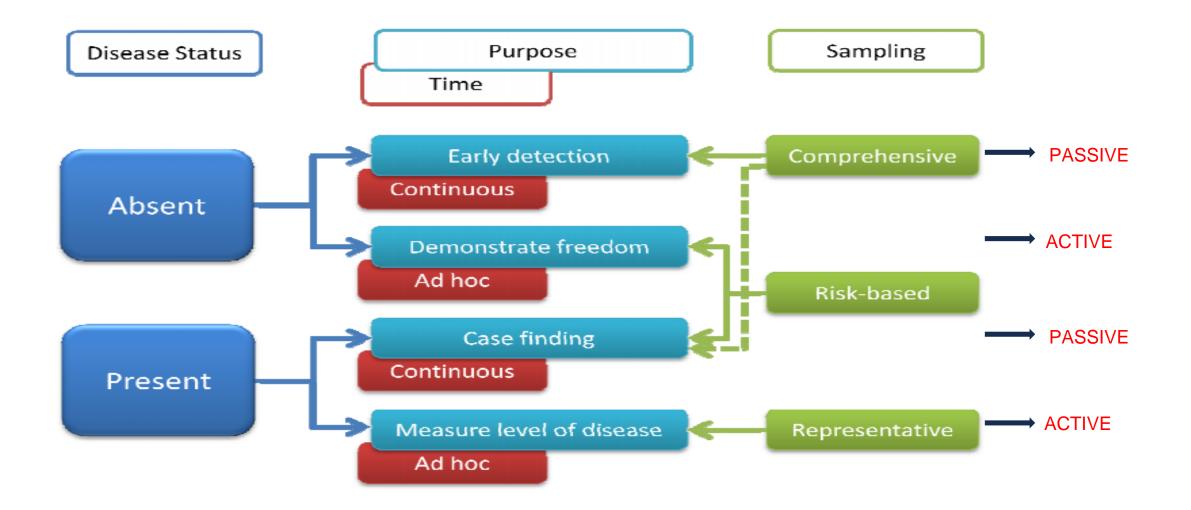
Gerelmaa Ulziibat – Director of SCVL

13-15 May 2025, Qingdao, People's Republic of China

Assessments for surveillance capacities in Mongolia



FMD Surveillance Strategy

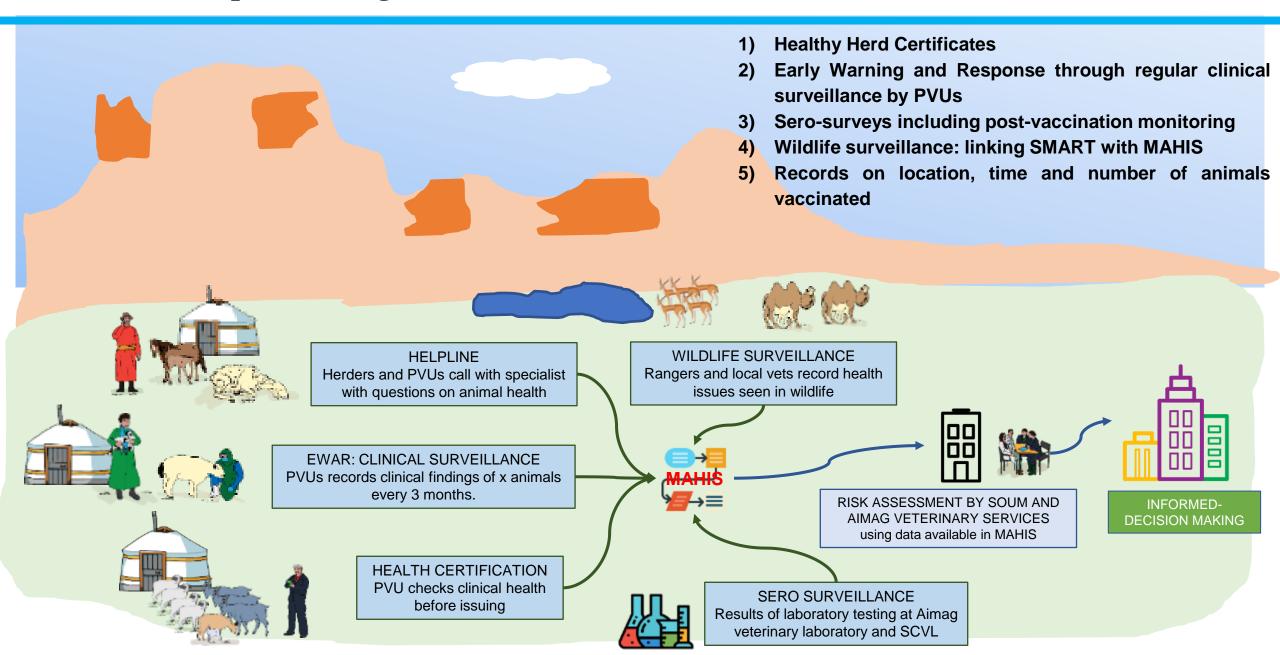


IntegratedAnimalHealthSurveillanceSystem(IAHSS)includes the following surveillance components:

- Early warning and response based on clinical examinations of herd that private veterinarians perform at time of regular herd visits and when issuing an animal health certificate;
- Sero surveillance for the purpose of defining the extend of FMD virus circulation (NSP-Ab prevalence rates) and assessment of control measures;
- Annual post-vaccination monitoring of the population immunity at herd level;
- Virological surveillance:
- Herder Helpline;
- Social media search of herder and private veterinarian groups;
- Abattoir-based surveillance;
- Wildlife surveillance;
- WAHIS and internet search.

Use of Epidemiological tools-Surveillances

5



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/HbPUEwAUJ9Y; https://youtu.be/N87Af7UkfLc),

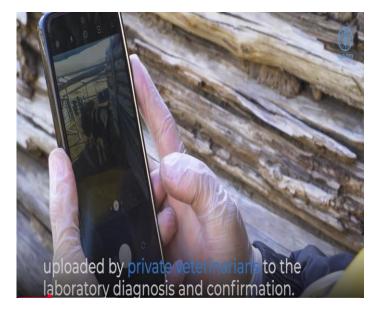
This pilot was conducted between July and October 2021 in three aimags (Sukhbaatar in Eastern, Uvurkhangai in Central and Khovd in Western region), involving 151 private vets. Over a period of 5 months, almost 6,500 herds and 165,000 heads of livestock were examined. As result of this pilot, the CVO 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.

in 2023, a total of 14,621 herds were clinically examined across all aimags in Mongolia, completing examination of 365,525 heads of livestock.

The study estimated that the saiga population was 6,664, a decrease of 33.1% compared to the same assessment in October 2021 and tested seven out of 50 tissue samples from 5 saiga carcasses positive in the RT-PCR for FMD virus. One blood sample tested positive to NSP-Ab for FMD. This was the first time that FMD virus was confirmed in Saiga.



EWAR: CLINICAL SURVEILLANCE (Passive surveillance)



💪 Динамик платформ 🛛 🗙	1 🕑 M	1ЭНС-2.0 Хянах	самбар	х 💿 мэнс-	2.0 Эрт илрүүүлги		Maus ana	and the				
	e.mahis.g	gov.mn/deteo	tions?Curre	ntPageNumber=18			@ M3HC-203	рсдэлийн үнэл	• X 1667			- 0
A Company of the State			илрүүүлгийн							9 1		C 1 2
5.Болдбаатар				(Sher			1					5.Болдбаатар
olouidualap	Аймаг сонгох 🗸			Сум сонгох · Амьтины терел					 Узлагийн огноо Малины нэр, регистраар хайг 			
Мәдәәләл	Мал з	жлен нйилленмо	*	Баталсан	~							
Хянах самбар												
МЭ-ийн гэрчилгээ >	#	Үэлэгийн дугаар	Үэлэгийн төрөл	Малчин	Регистр	Үэлэгийн огноо	Хаяг	Мал бүрийн тоо	Үэлэгт орсон нийт мал	Илэрсэн шинж тэмдэгийн	Бүртгэсэн хүн	Баталгаажилт
МЭ-ийн үйлчилгээ > Эрт илрүүлэг	1	Q-34732	Мал, амьтны үзлэг	чулуунбат.б	ДЖ82011111	2025-05- 12 10:06	Говь-Алтай, Жаргалан,1- р баг, Бүрэн	Ямаа-10, Үхэр-5,	15	тоо 0	Б.Юра / Бүрэн- Энэрэл/	BATARCAH
Эрт илрүүлгийн үзлэг Эрсдлийн үнэлгээ Газарзүйн зураглал	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.Ганпүрэв / Тэрмийн буян/	BATAJICAH
Форолцооны эпидемиологи > Амьтны бүртгэл мэдээлэл >	3	Q-34700	Мал, амьтны үзлэг	дорж.д	ЙГ76082917	2025-05- 11 23:35	Өвөрхангай, Баян- Өндөр,3∙р баг, Өвөр зүлэгт	Хомь-160, Ямаа-10, Үхэр-5,	175	0	Г. Ганпүрэв / Тэрмийн буян/	Баталсан
Мал эмнэлгийн нэгж > Хэрэглэгчийн сан	4	Q-34699	Мал, амьтны үзлэг	БАЯРСАЙХАН Д	ЙҐ84051511	2025-05- 11 23:35	Өвөрхангай, Баян- Өндөр,3-р баг, Өвөр аүлэгт	Үхэр-25, Хонь-90, Ямаа-10,	125	1	Г.Ганпүрэв / Тэрмийн буян/	GALATEAN
Өрчний ладлагаа	5	Q-34698	Мал, амьтны үзлэг	улаанхүүл	' ЙГ95110219	2025-05- 11 23:35	Өвөрхангай, Баян- Ондар,3-р баг, Өвөр зүлэгт	Хонь-111,	111	0	Г.Ганпүров / Тэрмийн буян/	CUTARYN
			Мал,		Ú500022234	2025-05-	Өвөрхангай, Баян- Өнхөөр 3-р	Хонь-142, Ямал-236.	383	0	Г.Ганпурав / Тэрьэнин	ALANEAH

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.



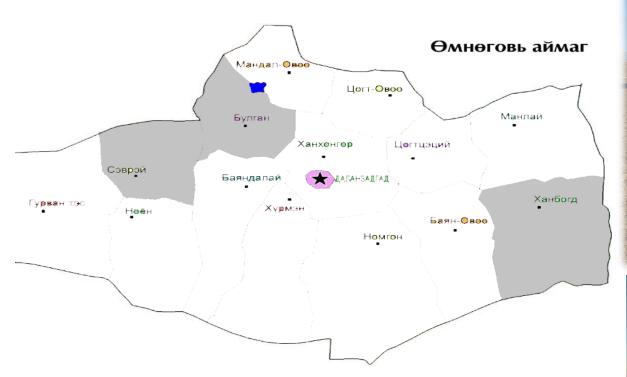
WILDLIFE SURVEILLANCE FOR FMD AND PPR IN 2022

			NYDET Malchin	SHUTT Kityargas		Zuurkhangai		arkhar G	Food and Ap	priculture	(i) I							
це.ен В	Atlantsugts Umn Bayannuur	ulgii	Zavxha	Teegaankha	undurkhan Undurkha	ingai	Songli Nº	no 1 : N Province	Soum		Collar ID	Age	Sex	Sample	located	Body condition	PPR Ab	FMD NSP
-		. (~	00	~			1	Tuv	Bayantsagaan	MG	MG-1-220926	5	F	46.61666	107.040715	Normal	Neg	Pos
	7	Myanged	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Urg	amai	entmargate 1	2	Tuv	Bayantsagaan	MG	MG-2-220927	4	F	46.61666	107.040715	Normal	Neg	Pos
	Toibo Erdeneburen	il	Durgun 0	5,		and the second	• 3	Tuv	Bayantsagaan	MG	MG-3-220927	3	М	46.61666	107.040715	Normal	Neg	Pos
	1	D. M		1	s ret		4	Tuv	Bayantsagaan	MG	MG-4-220927	3	F	46.61666	107.040715	Normal	Neg	Neg
	Khovd		and pos	S	Zavkhan	mandal	^{nde} 5	Tuv	Bayantsagaan	MG	MG-5-220927	4	М	46.593406	107.112321	Normal	Neg	Neg
and a	at Ja	rgalant	a 0 %	: Durvulen		1	6	Tuv	Bayantsagaan	MG	MG-6-220927	4	F	46.593406	107.112321	Normal	Neg	Neg
	1 15	Buyant	1 1 1	1 7	1	4	7	Tuv	Bayantsagaan	MG	MG-7-220928	4	F	46.557312	107.163666	Normal	Neg	Neg
-	Deluun	-	de transference de la companya de la	2		- 1: 0-	8	Tuv	Bayantsagaan	MG	MG-8-220928	4	F	46.557312	107.163666	Normal	Neg	Pos
1		and a second second		A State of the	· · ː · · · · · · · ·	Vin	ġ	Tuv	Bayantsagaan	MG	MG-9-220928	4	F	46.557312	107.163666	Normal	Neg	Pos
) Duut			ത്താം	Khukhmorit		10	Tuv	Bayantsagaan	MG	MG-10-220928	4	F	46.557312	107.163666	Normal	Neg	Pos
	Legend	Mankhan		000		- 16	11	Dundgobi	Tsagaandelger	MG	MG-11-220929	4	F	46.332713	107.949690	Normal	Neg	Pos
	Died saiga point 12022		11	- Y	3		12	Tuv	Bayantsagaan	MG	Dead	3	F	46.593406	107.112321	Normal	Neg	Pos
£_	Total	hairkhan	Zereg	Darvi	0000	layan-Uul		Tuv	Bayantsagaan	MG	Young	1	M	46.593406	107.112321	Normal	Neg	Neg
- E	• 1.000000 - 6.000000	· · · · · · · · · · · · · · · · · · ·			<u>, o</u>		. 13				····		111	40.030400	107.112321	Nomai	neg	INCY
	 6.000001 - 13.000000 13.000001 - 25.000000 	25	Must	0	D O		2		1	>	Bayantag							
	25.000001 - 49.000000	:	Muse 8	\sim	000	0	17	12	Taishir	~	1							
	49.000001 - 93.000000		-	1	Darvi	O.O O OSharga	and the second	1:		1	Khureemata							
	boundary_aimag	i /~	Tsetse			•				Delg	er							
	boundary_soums			Ca	•			Esonbulag										
E	boundary_country		Attai	Tonkhil	•:	•				1	-5							
80	lake		1. 1.	5	· COP	0 0 0 0 0 0 0 0		Khailun		. Bin	· ` `							
	Saiga_distirbution	2 J	:	<i>J</i> :	10 - T					Big	Chandman							
	C. and an	· mlar	: mlar		lugat	and in the	Tse	nel .	Teogt	i de la cara								

Died saiga location with FMDV natural infection in Mongolian saiga, 2016

Laboratory test results, information and natural infection surveillance in Mongolian gazelle, August 2022

WILDLIFE SURVEILLANCE FOR FMD AND PPR IN 2023







WILDLIFE SURVEILLANCE FOR FMD in 2021-2022

Name of provinceSukhbaat	Surveillance year	Species of wildlife	Number of samples	FMD NSP positive result	RT-PCR positive result
Govi-Altai in the Western	2021	Goitered Gazelle	1	0	
Khovd and Uvs in the Western	2021	Saiga	50	1	5
Umnugovi and Dornogovi in the South	2021	Goitered Gazelle	31	0	
Khentii and Dornod in the Eastern	2021	Mongolian Gazelle	18	4	
Govi-Altai, Khovd, Zavkhan in the Western	2022	Saiga	14	0	
Dundgovi and Tuv in the Central	2022	Mongolian gazelle	18	12	
Sukhbaatar in the Eastern	2022	Mongolian gazelle	9	5	
Umnugovi in the Eastern	2023	Mongolian gazelle	10	1	0

In October, 2021 and tested seven out of 50 tissue samples from 5 saiga carcasses positive in the RT-PCR for FMD virus. One blood sample tested positive to NSP-Ab for FMD. This was the first time that FMD virus was confirmed in Saiga.



Nº	Hac	Хүйс	Аймаг	Сум	Уртраг	Өргөрөг	Биеийн байдал	PPR SN	БМ мялзан	FMD NSP SN	Шүлхий
MG-1-221102	3	Эм	Сүхбаатар	Сүхбаатар	47.251479	114.053406	Шүд гэмтэлтэй	95.87	Сөрөг	5.748	Эерэг
MG-2-221102	5	Эм	Сүхбаатар	Сүхбаатар	47.251479	114.053406	Хэвийн	97.09	Сөрөг	14.058	Эерэг
MG-3-221102	6	Эм	Сүхбаатар	Сүхбаатар	47.251479	114.053406	Хэвийн	97.28	Сөрөг	5.515	Эерэг
MG-4-221102	4	Эр	Сүхбаатар	Сүхбаатар	47.251479	114.053406	Хэвийн	104.13	Сөрөг	19.573	Эерэг
MG-5-221103	6	Эм	Сүхбаатар	Сүхбаатар	47.229759	113.892217	Хэвийн	97.92	Сөрөг	83.81	Сөрөг
MG-6-221103	4	Эм	Сүхбаатар	Сүхбаатар	47.315855	114.212156	Хэвийн	103.62	Сөрөг	88.08	Сөрөг
MG-7-221103	3	Эм	Сүхбаатар	Сүхбаатар	47.315855	114.212156	Хэвийн	89.28	Сөрөг	41.48	Эерэг
MG-8-221103	2	Эм	Сүхбаатар	Сүхбаатар	47.315855	114.212156	Хэвийн	92.54	Сөрөг	113.94	Сөрөг
MG-9-221103	4	Эм	Сүхбаатар	Сүхбаатар	47.315855	114.212156	Хэвийн	105.73	Сөрөг	55.30	Сөрөг

The video animations are also available on GAVS's YouTube channel with the following titles and links:

- What are the clinical signs of FMD in livestock? <u>https://www.youtube.com/watch?v=4JpbJffw1Rk/</u>
- How FMD is spread? <u>https://www.youtube.com/watch?v=ySerEPyaXK4</u>
- Quarantine and restriction regime during FMD outbreak: <u>https://www.youtube.com/watch?v=cOvpMRhoS1w</u>
- Let's prevent the spread of FMD by restricting animal movement: <u>https://www.youtube.com/watch?v=YT17CeSyuPY</u>
- Economic impact of FMD: <u>https://www.youtube.com/watch?v=PSaV_lr88aA</u>

A series of 5 veterinary video lessons on clinical diagnosis, stages, sample collection, sample packaging and transporting, and biosecurity measures of FMD for the aimag, soum, and local veterinarians were prepared and posted on social media. The prepared video lessons can be found at the GAVS's YouTube channel with following titles and links:

- Lesson 1: Method for blood and serum sample preparation: <u>https://www.youtube.com/watch?v=dY3C36XyrE4</u>
- Lesson 2: Method for tissue/Epithelium sample collection: <u>https://www.youtube.com/watch?v=HRWqYOzIHSM</u>
- Lesson 3: Method for saliva and swab sample collection: <u>https://www.youtube.com/watch?v=k8UHj_3WVlE</u>
- Lesson 4: Method for probang sample collection: <u>https://www.youtube.com/watch?v=k8UHj_3WVlE</u>
- Lesson 5: Delivering samples to the laboratory and principles of biosafety and biosecurity measures: https://www.youtube.com/watch?v=dhexsD-awjI

Additionally, the video programmes that are produced for the purpose of raising awareness among the public and veterinarians:

No	Subject	Duration	Topic
1	Video: Global, regional and national FMD situation, and its' economic impact	30 min	FMD and its transmission route and control, and history of FMD outbreaks and its impacts at a national, regional and international levels
2	Video: Principles and benefit of establishing FMD free zone without vaccination	30 min	Guiding principles for establishing a zone free from FMD without vaccination/with vaccination
3	Video: National strategy for FMD control and prevention in Mongolia	30 min	Principles of Strategy development and guidelines, Action plan for National strategy for FMD control and prevention (2013- 2017), Duties and responsibilities of stakeholders for FMD control plan
4	Video: FMD diagnostic capacity in Mongolia	30 min	FMD diagnosis and surveillance capacity in Mongolia and its future plan
5	International cooperation on FMD free zone	30 min	Procedures for self-declaration and for official recognition by the OIE, and International cooperation on FMD control

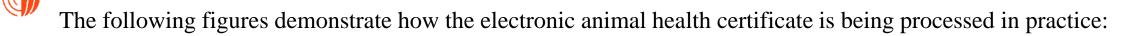


Veterinary certification issuance and its progress on MAHIS.

The following figures demonstrate how the electronic animal health certificate is being processed in practice:

	= 💉 4					1 /	٢	Р.Содномдаржаа
 Р.Содномдаржаа Улаанбаатар МЭ-ийн гэрчилгээ 	Баян-Өлгий, Баяко Үхэр, Хонь, Ямаа, Баталсан , Татгал	Тэмээ, Гах 🗸	Сум Бүтээгдэхүүний төрөл Шалгалтын цэг	 Баг Уржил, Үзэсгэл Мал эмнэлгийн 	эн, уралдаан, — 👻 МЭГ дул	/01 - 2020/09/02 Bap	Ирсэн Малчны нэрээ	ν P Q
Мал эмнэлгийн гэрчилгээ						N		
Олон улсын гэрчилгээ	МЭГ дугаар	Хаанаас		Хүлээн авагчийн нэр	Хүлээн авагчийн хаяг	Хүчинтэй хугацаа	Зориулалт	Толов
Дүнгийн хуудас	1 Meg24	анхтуя Хешеет)	4.Ч (Төв,Аргалант, 2-р баг,	энхирээдүй.м	Баянхонгор-Баянхонгор-10-р баг, Рашаант	2020/09/02 - 2020/09/09	Үржил	татгалэсан
Телевлегеет ажил	2 Meg24	43535 БАЯРЖА 1-р баг, 6	РГАЛ.С (Өвөрхангай,Баянгол, нц)	Бат	Говь-Алтай-Дарив-2-р баг, Хужирт	2020/08/30 - 2020/09/02	Отор, нуудэл	шалгасан
Дуудлага Тайлан >	3 Meg24	12449 ГЭРЭЛТ баг, Таль	ОД.Д (Дундговь,Өндөршил, 2-р ін нар)	содномсүрэнж	Хөвсгөл-Түнэл-З-р баг, Баян Эрхэт	2020/08/29 - 2020/09/05	Үржил	БАТАЛСАН
Хэрэглэгчид	4 Meg24	12058 ГАНТӨМ 6ar, Уянг	ЭР.Ж (Төв,Өндөрширээт, 3-р а)	Увс аймаг наран булаг сум	Увс-Наранбулаг-4-р баг, Улаан-Үзүүр	2020/08/28 - 2020/10/10	Отор, нүүдэл	БАТАЛСАН
Мал эмнэлгийн нэгж	5 Meg24	40491 АЛТАНХ Хешеет)	/ЯГ.М (Төв,Аргалант, 2-р баг,	өсөхбаяр.м	Завхан-Ургамал-4-р баг, Төв	2020/08/28 - 2020/09/04	Уржил	татгаласан
МЭН-ийн судалгаа	6 Meg23	18756 TOPMOH 6ar, Hani	Х.М (Өмнөговь,Баян-Овоо, 3-р іх)	хүсэл бүтээмж ххк	Хевсгел-Мерен-7-р баг	2020/08/27 - 2020/09/03	Үйлдвэрлэл, худалдаа	БАТАЛСАН
Системийн утгууд >								

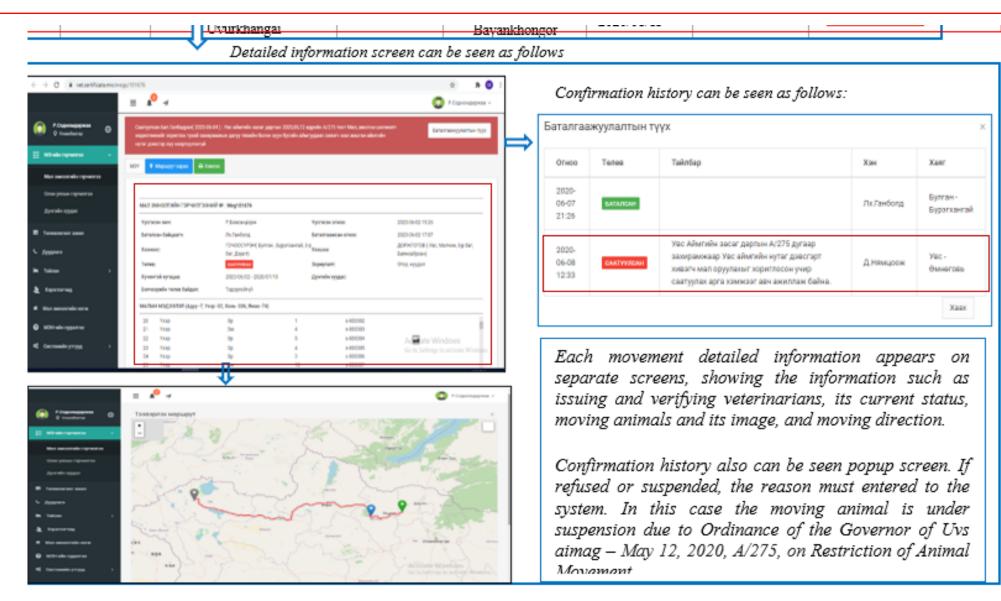
A list of animal health certificate and its progress/status displayed on admin console



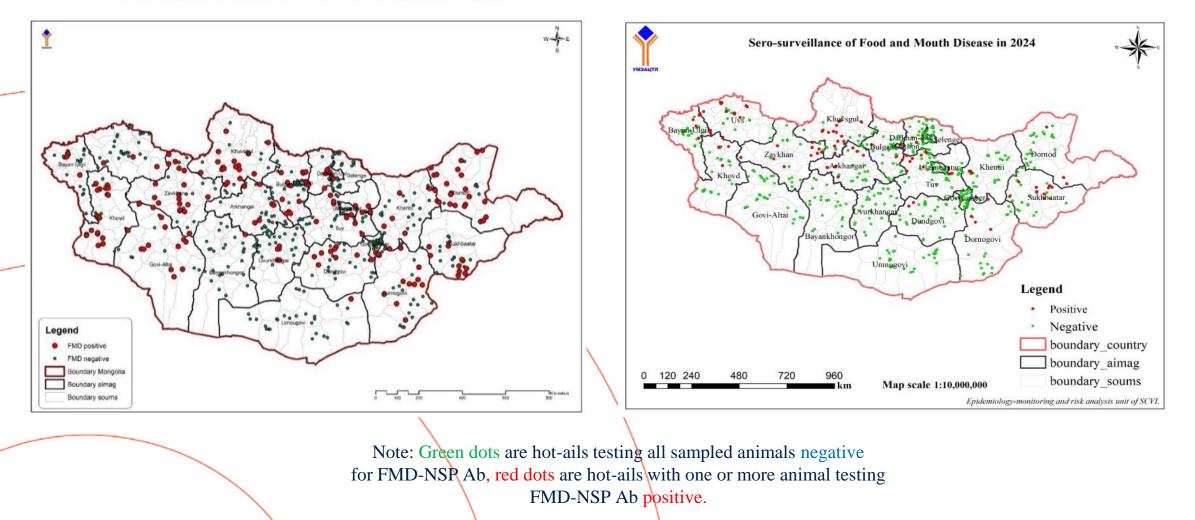
	Certificate number	Sender's Name and Originated location	Receiver's Name	Destination	Validity period	Purpose of movement	Status
1	Meg243535	Bayanjargal 1 st Bag, Bayangol Soum, Uvurkhangai	Bat	2 nd Bag, Khujur Soum, Gobi-Altai.	2020/08/30 - 2020/09/02	movement	INSPECTED
2	Meg242449	Gerelt-Od 2 nd Bad, Undurshil soum, Dundgobi	Sodnomsuren	3 rd Bag, Tunel soum, Khuvsgul	2020/08/29 - 2020/09/05 -	Breeding	CONFIRMED
4	Meg240491	Altankhuyag 2 nd Bag, Argalant soum , Tuv aimag	Usukhbayar.M	4 th Bag, Urgamal Soum, Zavkhan	2020/08/28 - 2020/09/04 -	Breeding	REFUSED
5	Meg238756	Turmunkh.M 3 rd Bag, Bayan-Uvuu, Umnu-Gobi	Khusel Buteej LLC	7 th Bag Murun, Khuvsgul	2020/08/27 - 2020/09/03 -	Trade	CONFIRMED
6	Meg237967	Ariuntugs.B 3 rd Bag Khutag-Undur soum, Bulgan	Delgersaikhan	1 st Bag, Tosontsengel, Khuvsgul	2020/08/26 - 2020/08/28	Breeding	INSPECTED
10	Meg230221	Odonchimeg.T 2 nd Bag, Tsakhir soum, Arkhangai	Zavkhan	4 th Bag, Telmen soum Zavkhan,	2020/08/23 - 2020/08/30	Fairs	CONFIRMED
19	Meg221038	Battumur.E 2 nd Batmer soum, Tuv	Jargalsaikhan	6 th Bag, Aldarkhaan soum, Zavkhan	2020/08/18 - 2020/08/21	movement	CONFIRMED
20	Meg204537	Ochırsum.B 2 nd Bag, Esonzuil soum, Uvurkhangai	Bayambasuren	2 nd Bag, Bumbugur soum, Bayankhongor	2020/08/12 - 2020/08/13	Trade	SUSPENDED

Detailed information screen can be seen as follows

⁷ The following figures demonstrate how the electronic animal health certificate is being processed in practice:



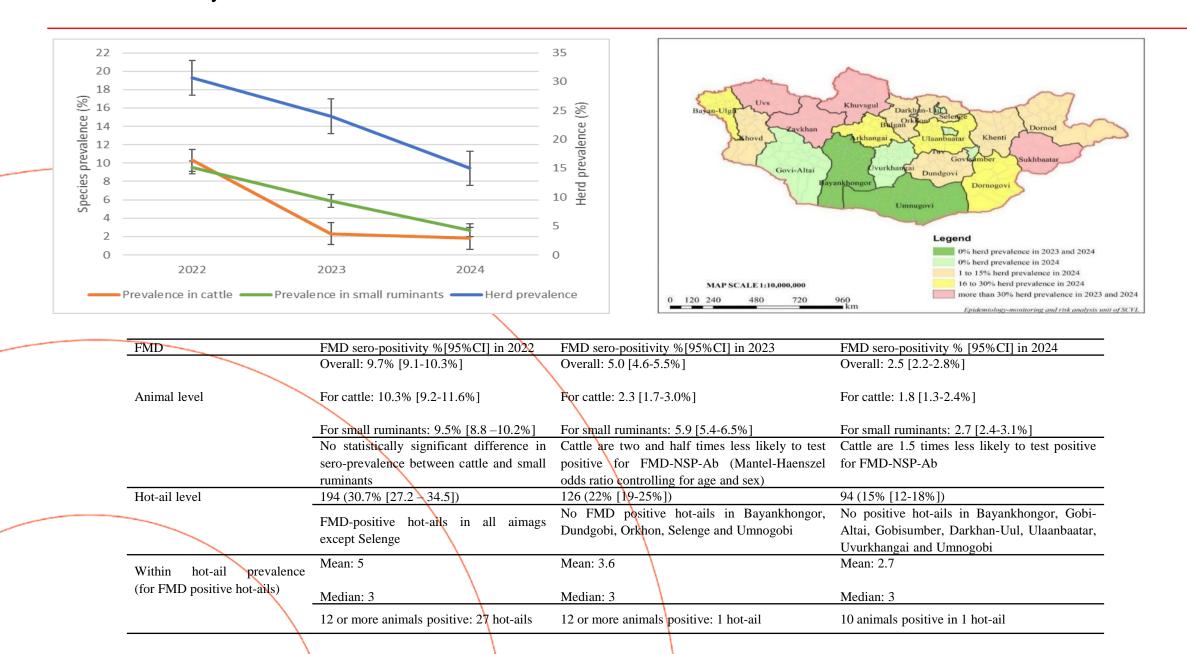
FMD NSP-Surveillances 2022-2024



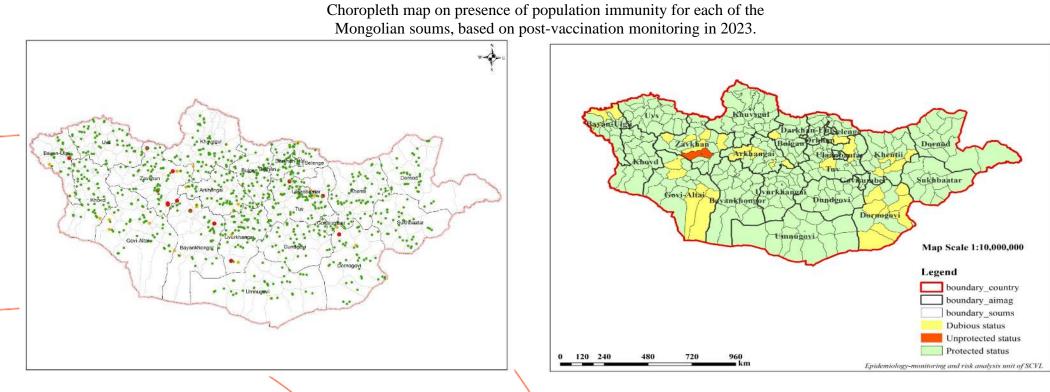
Herder locations tested for FMD-NSP antibodies in 2022

Herder locations tested for FMD-NSP antibodies in 2024

Summary result of FMD NSP-Surveillances 2022-2024



FMD Post-vaccination monitoring



Based on SP-serotype O	Herds in 2022	Percentage [95%CI]	Herds in 2023	Percentage [95%CI]	Herds in 2024	Percentage [95%CI]
Herd unprotected	16	1.6% [0.9 – 2.6%]	23	2.3% [1.5 – 3.5%]	34	3.4% [2.3 – 4.7%]
Herd dubiously protected	29	2.9% [1.9 – 4.1%]	28	2.8% [1.9 – 4.1%]	44	4.4% [3.2 – 5.8%]
Herd sufficiently and well protected	963	95.5% [94.0 – 96.7%]	938	94.8% [93.3 – 96.1%]	930	92.3% [90.4 – 93.8%]
Total	1,008		989		1,008	

Of the 1,008 herds, 930 (92.3% [90.4 – 93.8%]) herds were sufficiently and well protected based on the results of SP-ELISA against serotype O in 2024



Thank you for your attention **Contact Us**

General Authority Veterinary Services (GAVS) Mongolia:

51261635	
-----------------	--

S vet.gov.mn

vet@vet.gov.mn

State Central Veterinary laboratory (SCVL) Mongolia:

Contact Us

ANTTAL XAREBARTYNTT STUDIO

- 976+70111050
- S scvl.gov.mn
- vetlabnet@scvl.gov.mn