



Llywodraeth Cymru
Welsh Government

Annual Report to the Senedd on the monitoring programme for transmissible spongiform encephalopathies (TSEs) – years 2021 & 2022



September
2023

Presented to the Senedd pursuant to Article 6.4 of Regulation (EC) No 999/2001 laying down rules for the prevention, control and eradication of certain transmissible spongiform encephalopathies.

This publication is available at www.gov.wales/transmissible-spongiform-encephalopathies-tse

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Introduction

Regulation (EC) No 999/2001, as retained at exit from the European Union (EU), lays down rules for the prevention, control and eradication of transmissible spongiform encephalopathies (TSEs) in livestock. These consist of bovine spongiform encephalopathy (BSE) ('mad cow disease'), scrapie which affects sheep and goats, and chronic wasting disease (CWD), which affects cervids.

Article 6 of retained Regulation 999/2001 sets out the requirement for an annual monitoring programme for TSEs based on active and passive surveillance. The surveillance programme monitors the level of BSE, in particular, over time and thereby checks the continued effectiveness of the BSE controls. Article 6 also requires that the appropriate authority must, where possible, submit to their relevant Parliament an annual report for each calendar year on this monitoring programme.

Prior to EU exit the Regulation required the annual report to be submitted to the European Commission to contribute to a consolidated European Union report. This provision was amended at EU exit by the Transmissible Spongiform Encephalopathies and Animal By-Products (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019/170); the report therefore covers data for Great Britain in 2021 and 2022.

The information required is set out in Annex III, Chapter B, Part I (Reporting and Recording requirements; Requirements on appropriate authorities) of the retained Regulation (as amended). Most of the data, from 2007 onwards, is available on GOV.UK, and has been provided via this webpage since 2015:

www.gov.uk/government/publications/active-tse-surveillance-statistics.

This data is updated monthly.

Bovine Spongiform Encephalopathy (BSE) in cattle

Under our robust surveillance programme, approximately 100,000 BSE tests are undertaken annually. Bovine animals are tested for BSE if they are born in the UK or in an EU country other than Romania or Bulgaria and:

- the animal is aged over 48 months and showed **signs of sickness** when examined by a veterinarian before death; or
- the animal is aged over 48 months and has been sent for **emergency slaughter** (for example, casualty animals which do not appear to be unwell, but have broken a leg or suffered some other injury); or

- the animal is aged over 48 months and is **fallen stock**, that is, their death was not due to being slaughtered for human consumption; or
- the animal is older than 30 months and killed for the farmer's private consumption: '**home kill**'.

In addition, our surveillance programme requires:

- BSE testing of bovine animals slaughtered for human consumption at abattoir if they were born in Romania, Bulgaria, or any non-EU country and they were older than 30 months and healthy at the time of slaughter.
- BSE testing of bovine animals that are fallen stock, were sent for emergency slaughter or showed signs of sickness when examined by a veterinarian before death that were born in Romania, Bulgaria or any non-EU country and were older than 24 months at the time of death.

The data for the calendar years 2021 and 2022 is in annexes 1 and 2.

The data includes a small number of bovine animals that were aged below 48 months, as tests are sometimes performed before the age of the animal can be verified. There are also a small number of bovine animals of unknown age due to their birth pre-dating the introduction of passports or failure by keepers to record them. All these animals were '**fallen stock**' which do not enter the food chain.

During the period covered by these reports, there was 1 confirmed BSE case in 2021 in Somerset of **1 cow** which was tested as fallen stock aged over 48 months. The youngest **2** offspring of this animal were placed under official restrictions and were culled, sampled, and tested for BSE, as required by legislation, both with negative results.

A total of **68** 'cohort' animals were identified. Cohort animals are those born in the same herd as the affected bovine animal within 12 months preceding or following the date of birth of that animal; and animals which at any time during the first year of their lives were reared together with the affected bovine animal during the first year of its life. As required by legislation, all the cohort animals were placed under official restrictions and were culled, sampled, and tested for BSE, all with negative results.

These animals are captured within the 2021 data under '**BSE culling**'.

Scrapie in sheep and goats

We monitor the level of scrapie in the national sheep flock and the national goat herd with a programme of active surveillance in line with legislative requirements. This programme monitors the continued effectiveness of our scrapie controls. It consists of the annual testing for TSE of 20,000 healthy and fallen sheep aged over 18 months, of which at least 5,000 are healthy animals slaughtered for human consumption, and 500 fallen stock goats.

Holdings under scrapie control and eradication measures are also monitored under the Compulsory Scrapie Flock Scheme (CSFS) which applies where cases of classical or atypical scrapie are confirmed. Unlike classical scrapie which affects younger animals and is highly contagious, atypical scrapie usually affects individual animals older than 5 and is believed to be spontaneous.

Under the CSFS there are strict testing requirements. Animals aged over 18 months going for slaughter must be sent to designated abattoirs, where they are sampled and tested for scrapie. Animals aged over 18 months which die or are killed on the farm must also be sampled and tested.

The data for the calendar years 2021 and 2022 is in annexes 3 and 4 which sets out the numbers of sheep and goats tested under both our national surveillance programme and the CSFS.

The data shows a small number of confirmed cases of atypical scrapie along with the additional information required by the legislation for each individual case. There were no confirmed cases of classical scrapie.

Chronic Wasting Disease (CWD) in cervids

Retained Regulation (EC) No 999/2001 also applies to CWD, but we are not required by the legislation to have an active surveillance programme. Like BSE and scrapie, the disease is notifiable meaning that it must be reported to the competent authority on suspicion; tests will be carried out on any suspect cases. We are required to include information on the number of samples tested and confirmed cases in the annual report. In 2021 there was one case of a roe deer showing clinical signs compatible with TSE, which was tested in order to rule out TSE. The test was negative. There have been no confirmed cases of CWD in the UK to date.

Annex 1: BSE testing of cattle – 2021

i. England

BSE survey	Age class by month	Number of animals tested	Result of test
Signs of sickness at ante-mortem	36-47	1	negative
Signs of sickness at ante-mortem	48-59	42	negative
Signs of sickness at ante-mortem	60-71	35	negative
Signs of sickness at ante-mortem	72-83	35	negative
Signs of sickness at ante-mortem	84-95	23	negative
Signs of sickness at ante-mortem	96-107	26	negative
Signs of sickness at ante-mortem	108-119	11	negative
Signs of sickness at ante-mortem	120-131	14	negative
Signs of sickness at ante-mortem	132-143	7	negative
Signs of sickness at ante-mortem	144-155	5	negative
Signs of sickness at ante-mortem	>=156	12	negative
Emergency slaughter	24-35	1	negative
Emergency slaughter	36-47	5	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Emergency slaughter	48-59	1165	negative
Emergency slaughter	60-71	930	negative
Emergency slaughter	72-83	692	negative
Emergency slaughter	84-95	468	negative
Emergency slaughter	96-107	296	negative
Emergency slaughter	108-119	219	negative
Emergency slaughter	120-131	142	negative
Emergency slaughter	132-143	88	negative
Emergency slaughter	144-155	56	negative
Emergency slaughter	>=156	106	negative
BSE culling	<24	1	negative
BSE culling	24-35	1	negative
BSE culling	60-71	15	negative
BSE culling	72-83	30	negative
BSE culling	84-95	22	negative
Fallen stock	<24	1	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Fallen stock	24-35	238	negative
Fallen stock	36-47	735	negative
Fallen stock	48-59	12016	negative
Fallen stock	60-71	12677	negative
Fallen stock	72-83	10932	negative
Fallen stock	72-83	1	positive
Fallen stock	84-95	8276	negative
Fallen stock	96-107	6309	negative
Fallen stock	108-119	4879	negative
Fallen stock	120-131	3336	negative
Fallen stock	132-143	2304	negative
Fallen stock	144-155	1762	negative
Fallen stock	>=156	4712	negative
Fallen stock	unknown	435	negative
Home kill	48-59	2	negative
Home Kill	60-71	3	negative

ii. Wales

BSE survey	Age class by month	Number of animals tested	Result of test
Signs of sickness at ante-mortem	48-59	5	negative
Signs of sickness at ante-mortem	60-71	3	negative
Signs of sickness at ante-mortem	72-83	4	negative
Signs of sickness at ante-mortem	84-95	2	negative
Signs of sickness at ante-mortem	96-107	2	negative
Signs of sickness at ante-mortem	120-131	1	negative
Signs of sickness at ante-mortem	132-143	1	negative
Signs of sickness at ante-mortem	144-155	2	negative
Emergency slaughter	48-59	78	negative
Emergency slaughter	60-71	68	negative
Emergency slaughter	72-83	36	negative
Emergency slaughter	84-95	35	negative
Emergency slaughter	96-107	19	negative
Emergency slaughter	108-119	12	negative
Emergency slaughter	120-131	10	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Emergency slaughter	132-143	5	negative
Emergency slaughter	144-155	2	negative
Emergency slaughter	>=156	8	negative
BSE culling	72-83	1	negative
Fallen stock	<24	1	negative
Fallen stock	24-35	61	negative
Fallen stock	36-47	154	negative
Fallen stock	48-59	2627	negative
Fallen stock	60-71	2831	negative
Fallen stock	72-83	2527	negative
Fallen stock	84-95	2006	negative
Fallen stock	96-107	1620	negative
Fallen stock	108-119	1312	negative
Fallen stock	120-131	848	negative
Fallen stock	132-143	648	negative
Fallen stock	144-155	464	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Fallen stock	>=156	1137	negative
Fallen stock	unknown	60	negative
Home kill	60-71	2	negative

iii. Scotland

BSE survey	Age class by month	Number of animals tested	Result of test
Signs of sickness at ante-mortem	48-59	14	negative
Signs of sickness at ante-mortem	60-71	10	negative
Signs of sickness at ante-mortem	72-83	6	negative
Signs of sickness at ante-mortem	84-95	9	negative
Signs of sickness at ante-mortem	96-107	3	negative
Signs of sickness at ante-mortem	108-119	4	negative
Signs of sickness at ante-mortem	120-131	2	negative
Signs of sickness at ante-mortem	132-143	2	negative
Signs of sickness at ante-mortem	144-155	2	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Signs of sickness at ante-mortem	>=156	6	negative
Emergency slaughter	48-59	47	negative
Emergency slaughter	60-71	47	negative
Emergency slaughter	72-83	35	negative
Emergency slaughter	84-95	18	negative
Emergency slaughter	96-107	25	negative
Emergency slaughter	108-119	11	negative
Emergency slaughter	120-131	6	negative
Emergency slaughter	132-143	6	negative
Emergency slaughter	144-155	1	negative
Emergency slaughter	>=156	8	negative
Fallen stock	24-35	16	negative
Fallen stock	36-47	65	negative
Fallen stock	48-59	3177	negative
Fallen stock	60-71	3127	negative
Fallen stock	72-83	2775	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Fallen stock	84-95	2077	negative
Fallen stock	96-107	1690	negative
Fallen stock	108-119	1365	negative
Fallen stock	120-131	1198	negative
Fallen stock	132-143	882	negative
Fallen stock	144-155	740	negative
Fallen stock	>=156	1860	negative
Fallen stock	unknown	89	negative

iv. Unknown location

BSE survey	Age class by month	Number of animals tested	Result of test
Signs of sickness at ante-mortem	unknown	1	negative
Emergency slaughter	120-131	1	negative
Emergency slaughter	48-59	1	negative
Emergency slaughter	60-71	1	negative
Emergency slaughter	72-83	1	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Fallen stock	>=156	2	negative
Fallen stock	120-131	1	negative
Fallen stock	144-155	1	negative
Fallen stock	60-71	2	negative
Fallen stock	72-83	2	negative
Fallen stock	96-107	1	negative
Fallen stock	unknown	32	negative

Annex 2: BSE testing of cattle – 2022

i. England

BSE survey	Age class by month	Number of animals tested	Result of test
Signs of sickness at ante-mortem	24-35	1	negative
Signs of sickness at ante-mortem	48-59	44	negative
Signs of sickness at ante-mortem	60-71	43	negative
Signs of sickness at ante-mortem	72-83	31	negative
Signs of sickness at ante-mortem	84-95	31	negative
Signs of sickness at ante-mortem	96-107	23	negative
Signs of sickness at ante-mortem	108-119	15	negative
Signs of sickness at ante-mortem	120-131	13	negative
Signs of sickness at ante-mortem	132-143	6	negative
Signs of sickness at ante-mortem	>=156	5	negative
Emergency slaughter	24-35	2	negative
Emergency slaughter	36-47	4	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Emergency slaughter	48-59	1369	negative
Emergency slaughter	60-71	1120	negative
Emergency slaughter	72-83	871	negative
Emergency slaughter	84-95	564	negative
Emergency slaughter	96-107	358	negative
Emergency slaughter	108-119	193	negative
Emergency slaughter	120-131	157	negative
Emergency slaughter	132-143	93	negative
Emergency slaughter	144-155	60	negative
Emergency slaughter	>=156	101	negative
Fallen stock	<24	3	negative
Fallen stock	24-35	282	negative
Fallen stock	36-47	858	negative
Fallen stock	48-59	11381	negative
Fallen stock	60-71	11565	negative
Fallen stock	72-83	10298	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Fallen stock	84-95	7998	negative
Fallen stock	96-107	5790	negative
Fallen stock	108-119	4059	negative
Fallen stock	120-131	3272	negative
Fallen stock	132-143	2352	negative
Fallen stock	144-155	1738	negative
Fallen stock	>=156	4670	negative
Fallen stock	unknown	361	negative
Home kill	48-59	1	negative

ii. Wales

BSE survey	Age class by month	Number of animals tested	Result of test
Signs of sickness at ante-mortem	48-59	5	negative
Signs of sickness at ante-mortem	60-71	2	negative
Signs of sickness at ante-mortem	72-83	4	negative
Signs of sickness at ante-mortem	84-95	1	negative
Signs of sickness at ante-mortem	96-107	3	negative
Signs of sickness at ante-mortem	108-119	1	negative
Signs of sickness at ante-mortem	120-131	3	negative
Signs of sickness at ante-mortem	>=156	4	negative
Emergency slaughter	36-47	1	negative
Emergency slaughter	48-59	74	negative
Emergency slaughter	60-71	56	negative
Emergency slaughter	72-83	44	negative
Emergency slaughter	84-95	33	negative
Emergency slaughter	96-107	11	negative
Emergency slaughter	108-119	11	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Emergency slaughter	120-131	12	negative
Emergency slaughter	132-143	2	negative
Emergency slaughter	144-155	5	negative
Emergency slaughter	>=156	5	negative
Fallen stock	<24	2	negative
Fallen stock	24-35	59	negative
Fallen stock	36-47	145	negative
Fallen stock	48-59	2545	negative
Fallen stock	60-71	2538	negative
Fallen stock	72-83	2376	negative
Fallen stock	84-95	1924	negative
Fallen stock	96-107	1396	negative
Fallen stock	108-119	1067	negative
Fallen stock	120-131	793	negative
Fallen stock	132-143	619	negative
Fallen stock	144-155	433	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Fallen stock	>=156	1071	negative
Fallen stock	unknown	59	negative
Home kill	72-83	1	negative
Home kill	96-107	1	negative

iii. Scotland

BSE survey	Age class by month	Number of animals tested	Result of test
Signs of sickness at ante-mortem	24-35	1	negative
Signs of sickness at ante-mortem	48-59	6	negative
Signs of sickness at ante-mortem	60-71	18	negative
Signs of sickness at ante-mortem	72-83	7	negative
Signs of sickness at ante-mortem	84-95	11	negative
Signs of sickness at ante-mortem	96-107	6	negative
Signs of sickness at ante-mortem	108-119	2	negative
Signs of sickness at ante-mortem	120-131	2	negative
Signs of sickness at ante-mortem	144-155	1	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Signs of sickness at ante-mortem	>=156	1	negative
Emergency slaughter	36-47	3	negative
Emergency slaughter	48-59	68	negative
Emergency slaughter	60-71	68	negative
Emergency slaughter	72-83	43	negative
Emergency slaughter	84-95	39	negative
Emergency slaughter	96-107	16	negative
Emergency slaughter	108-119	12	negative
Emergency slaughter	120-131	11	negative
Emergency slaughter	132-143	5	negative
Emergency slaughter	144-155	2	negative
Emergency slaughter	>=156	11	negative
Fallen stock	24-35	21	negative
Fallen stock	36-47	41	negative
Fallen stock	48-59	3035	negative
Fallen stock	60-71	3017	negative

BSE survey	Age class by month	Number of animals tested	Result of test
Fallen stock	72-83	2615	negative
Fallen stock	84-95	2089	negative
Fallen stock	96-107	1578	negative
Fallen stock	108-119	1198	negative
Fallen stock	120-131	1074	negative
Fallen stock	132-143	873	negative
Fallen stock	144-155	667	negative
Fallen stock	>=156	1748	negative
Fallen stock	unknown	132	negative

iv. Unknown location

BSE survey	Age class by month	Number of animals tested	Result of test
Emergency slaughter	48-59	1	negative
Emergency slaughter	72-83	1	negative
Emergency slaughter	120-131	1	negative
Fallen stock	>=156	1	negative
Fallen stock	108-119	1	negative
Fallen stock	120-131	1	negative
Fallen stock	36-47	1	negative
Fallen stock	60-71	3	negative
Fallen stock	84-95	1	negative
Fallen stock	96-107	1	negative
Fallen stock	unknown	44	negative

Annex 3: Scrapie – Test results and related data 2021

Year	Scrapie Survey	Number of animals tested	Number of animals tested with an atypical result	Number of animals tested in which scrapie is not confirmed	Number of animals tested in which scrapie is confirmed
2021	Sheep abattoir survey	5509	4	5505	0
2021	Sheep fallen stock survey	13651	6	13645	0
2021	Goat fallen stock survey	499	0	499	0
2021	Total Sheep tested	19160	10	19150	0
2021	Total Goats tested	499	0	499	0

Year	Scrapie Survey	Number of animals tested	Number of animals tested with an atypical result	Number of animals tested in which scrapie is not confirmed	Number of animals tested in which scrapie is confirmed
2021	CSFS Sheep Fallen Stock Survey	458	1	457	0
2021	CSFS Sheep Initial Cull Survey	0	0	0	0
2021	CSFS Sheep Annual Cull Survey	0	0	0	0
2021	CSFS Sheep Dead in Transit Survey	0	0	0	0
2021	CSFS Goat Fallen Stock Survey	302	0	302	0
2021	CSFS Goat Initial Cull Survey	0	0	0	0
2021	CSFS Goat Annual Cull Survey	237	0	237	0
2021	CSFS Goat Dead in Transit Survey	0	0	0	0
2021	Total Sheep tested	458	1	457	0
2021	Total Goats tested	539	0	539	0

Annex 3 (a): Scrapie – Positive results: date of birth, location, breed, genotype – 2021

Reference	Date reported	Sex	Species	Breed	Date of Birth	Age in years	Location	Result Summary	Final Result
21/00001	18/01/2021	Female	Sheep				Somerset	Biorad positive 20/01/2021 Genotype ALRQ/ AFRQ 29/01/2021 Modified Western Blot positive 01/02/2021 Sheep MicroSatellite Identification MATCH 02/02/2021	Atypical Scrapie
21/00002	26/01/2021	Female	Sheep	UNK	26/01/2014	7	West Sussex	Biorad positive 26/01/2021 Genotype ALHQ/ ALRR 03/02/2021 Modified Western Blot positive 01/02/2021 Sheep MicroSatellite Identification MATCH 03/02/2021	Atypical Scrapie
21/00003	11/02/2021	Female	Sheep	UNK	11/02/2007	14	Lincolnshire	Biorad positive 15/02/2021 Genotype ALHQ/ ALHQ 26/02/2021 Modified Western Blot positive 02/03/2021 Sheep MicroSatellite Identification MATCH 02/03/2021	Atypical Scrapie

Reference	Date reported	Sex	Species	Breed	Date of Birth	Age in years	Location	Result Summary	Final Result
21/00004	14/04/2021	Female	Sheep				West Sussex	Biorad positive 14/04/2021 Genotype ALRR/ALHQ 29/04/2021 IHC Cerebellum positive 28/06/2021 Modified Western Blot positive 26/04/2021	Atypical Scrapie
21/00005	23/04/2021	Female	Sheep	UNK			Devon	Biorad positive 22/04/2021 Genotype ALHQ/AFRQ 06/05/2021 Modified Western Blot positive 05/05/2021 Sheep MicroSatellite Identification MATCH 11/05/2021	Atypical Scrapie
21/00007	04/08/2021	Female	Sheep	HERD	04/08/2007	14	North Yorkshire	Biorad positive 04/08/2021 Genotype unsuitable 19/08/2021 Modified Western Blot positive 16/08/2021 Sheep MicroSatellite Identification unsuitable 19/08/2021	Atypical Scrapie

Reference	Date reported	Sex	Species	Breed	Date of Birth	Age in years	Location	Result Summary	Final Result
21/00009	15/11/2021	Female	Sheep	BALW	15/11/2015	6	Scottish Borders	Biorad positive 16/11/2021 Genotype ALHQ/ALHQ 02/12/2021 IHC Cerebellum Atypical 01/12/2021 IHC Obex Atypical 01/12/2021 Modified Western Blot positive 24/11/2021	Atypical Scrapie
21/00010	15/11/2021	Female	Sheep				Cumbria	Biorad positive 16/11/2021 Genotype ALRR/ALHQ 02/12/2021 IHC Cerebellum Atypical 01/12/2021 IHC Obex Atypical 01/12/2021 Modified Western Blot positive 24/11/2021	Atypical Scrapie
21/00011	03/12/2021	Female	Sheep	WEMO	03/12/2014	7	Cardiganshire	Biorad positive 02/12/2021 Genotype ALRR/AFRQ 22/12/2021 Modified Western Blot positive 17/12/2021 Sheep MicroSatellite Identification MATCH 20/12/2021	Atypical Scrapie

Reference	Date reported	Sex	Species	Breed	Date of Birth	Age in years	Location	Result Summary	Final Result
21/00012	07/12/2021	Female	Sheep	WEMO	07/12/2016	5	Powys	Biorad positive 07/12/2021 II Genotype ALRR/ALHQ 22/12/2021 II Modified Western Blot positive 17/12/2021	Atypical Scrapie
21/00013	17/12/2021	Female	Sheep				Scottish Borders	Biorad positive 17/12/2021 II Genotype AFRQ/AFRQ 31/12/2021 II Modified Western Blot positive 24/12/2021 II Sheep MicroSatellite Identification MATCH 24/12/2021	Atypical Scrapie

Annex 3 (b): Scrapie – suspect cases: flocks – 2021

Number of suspected cases placed under official movement restrictions			Number of flocks where suspected cases in ovine and caprine animals have been reported and investigated			Number of ovine and caprine flocks tested				
Sheep	Goats	Sheep	Goats	MIXED	Sheep SHC*	Sheep FS**	Sheep EM***	Goats SHC	Goats FS	Goats EM
2	0	2	0	0	>3	>5100	44	0	>245	1

* slaughtered for human consumption

** Fallen stock

*** Emergency slaughter

Note: '>' indicates a minimum number where there are significant numbers submitted without location recorded.

Annex 4: Scrapie – Test results and related data 2022

Year	Scrapie Survey	Number of animals tested	Number of animals tested with an atypical result	Number of animals tested in which scrapie is not confirmed	Number of animals tested in which scrapie is confirmed
2022	Sheep abattoir survey	7603	2	7601	0
2022	Sheep fallen stock survey	12005	8	11997	0
2022	Goat fallen stock survey	504	0	504	0
2022	Total sheep tested	19608	10	19598	0
2022	Total goats tested	504	0	504	0

Year	Scrapie Survey	Number of animals tested	Number of animals tested with an atypical result	Number of animals tested in which scrapie is not confirmed	Number of animals tested in which scrapie is confirmed
2022	CSFS Sheep Fallen Stock Survey	284	0	284	0
2022	CSFS Sheep Initial Cull Survey	0	0	0	0
2022	CSFS Sheep Annual Cull Survey	0	0	0	0
2022	CSFS Sheep Dead in Transit Survey	0	0	0	0
2022	CSFS Goat Fallen Stock Survey	277	0	277	0
2022	CSFS Goat Initial Cull Survey	0	0	0	0
2022	CSFS Goat Annual Cull Survey	158	0	158	0
2022	CSFS Goat Dead in Transit Survey	0	0	0	0
2022	Total Sheep tested	284	0	284	0
2022	Total Goats tested	435	0	435	0

Annex 4 (a): Scrapie – Positive results: date of birth, location, breed, genotype – 2022

Reference	Date reported	Sex	Species	Breed	Date of Birth	Age in years	Location	Result Summary	Final Result
22/00001	31/01/2022	Female	Sheep	MULE X UNK	31/01/2014	8	Lancashire	Biorad positive 31/01/2022 II Genotype ALRR/ ALHQ 15/02/2022 II Modified Western Blot positive 08/02/2022 II Sheep MicroSatellite Identification MATCH 17/02/2022	Atypical Scrapie
22/00002	01/02/2022	Female	Sheep	UNK	01/02/2016	6	Denbighshire	Biorad positive 01/02/2022 II Genotype ALHQ/ AFRQ 15/02/2022 II Modified Western Blot positive 08/02/2022	Atypical Scrapie
22/00004	14/03/2022	Female	Sheep	UNK	01/01/2015		Flintshire		Atypical Scrapie

Reference	Date reported	Sex	Species	Breed	Date of Birth	Age in years	Location	Result Summary	Final Result
22/00005	30/03/2022	Female	Sheep	HERD	30/03/2014	7	Dumfriesshire	Genotype ALRR/ ALHQ 11/09/2022 II IHC Obex Atypical 05/04/2022	Atypical Scrapie
22/00006	13/04/2022	Female	Sheep	SWAL	13/04/2014	8	Lancashire	Biorad positive 22/04/2022 II Genotype ALRR/ ALHQ 24/11/2022 II Modified Western Blot positive 05/05/2022 II Sheep MicroSatellite Identification unsuitable 13/05/2022	Atypical Scrapie
22/00007	19/04/2022	Female	Sheep	LLEY	19/04/2013	9	West Sussex	Biorad positive 26/04/2022 II Genotype ALRR/ ALHQ 11/05/2022 II Modified Western Blot positive 05/05/2022 II Sheep MicroSatellite Identification MATCH 12/05/2022 II	Atypical Scrapie

Reference	Date reported	Sex	Species	Breed	Date of Birth	Age in years	Location	Result Summary	Final Result
22/00008	06/05/2022	Female	Sheep				Dorset	Biorad positive 06/05/2022 II Genotype ALRR/ALHQ 13/05/2022 II Modified Western Blot positive 16/05/2022 II Sheep MicroSatellite Identification MATCH 13/05/2022	Atypical Scrapie
22/00009	11/05/2022	Female	Sheep				West Sussex	Biorad positive 18/05/2022 II Genotype AFRQ/AFRQ 30/05/2022 II Modified Western Blot positive 26/05/2022 II Sheep MicroSatellite Identification MATCH 08/06/2022	Atypical Scrapie
22/00010	07/06/2022	Female	Sheep				Surrey	Biorad positive 07/06/2022 II Genotype ALRR/ALRR 23/06/2022 II Modified Western Blot positive 15/06/2022 II Sheep MicroSatellite Identification MATCH 21/06/2022 II	Atypical Scrapie

Reference	Date reported	Sex	Species	Breed	Date of Birth	Age in years	Location	Result Summary	Final Result
22/00011	23/08/2022	Female	Sheep				Scottish Borders	Biorad positive 23/08/2022 II Genotype ALRR/AFRQ 07/09/2022 II Modified Western Blot positive 05/09/2022 II Sheep MicroSatellite Identification MATCH 08/09/2022	Atypical Scrapie
22/00012	06/10/2022	Female	Sheep	SWAL			North Yorkshire	Biorad positive 06/10/2022 II Genotype ALRR/ALHQ 24/10/2022 II Modified Western Blot positive 12/10/2022	Atypical Scrapie

Annex 4 (b): Scrapie – suspect cases: flocks – 2022

Number of suspected cases placed under official movement restrictions			Number of flocks where suspected cases in ovine and caprine animals have been reported and investigated			Number of ovine and caprine flocks tested				
Sheep	Goats	Sheep	Goats	MIXED	Sheep SHC*	Sheep FS**	Sheep EM***	Goats SHC	Goats FS	Goats EM
3	0	3	0	0	>3	>4691	>66	0	>245	0

* slaughtered for human consumption

** Fallen stock

*** Emergency slaughter

Note: ‘>’ indicates a minimum number where there are significant numbers submitted without location recorded.