

### BARB Investigation Questionnaire

	Question	Answers
	<b>Case animal details</b>	
1	Tag number of case animal	
2	Breed of case animal	
3	Is case animal pedigree or non pedigree	
4	Was AI or natural service used on case animal?	
5	If AI was used was it DIY or professional?	
6	Does farm use embryo transfer? If yes give name and address of any premises from which embryos obtained	
7	Name and address of premises where semen was prepared	
8	Date of birth of case animal according to AHCS	
9	Date of birth of case animal according to herd register	
10	Record the details of all TB tests for the case animal including date, age, breed	
11	Was the case animal ever retagged. If so describe including when, were one or both tags replaced etc	
12	List all progeny, date of birth, tag number, sex, live/dead, BSE test result, sample grade	
13	Summarise milk recording details for the case animal	
14	Age of case animal at onset of clinical signs	
15	Provide detailed description of the history of the animal. As well as clinical history how was she to handle in early life? Was she productive? Any information about her at all.	
16	Date of death of case animal according to NBAS31D	
17	Date of death according to AHCS	
18	Date rapid tested for BSE	
19	Rapid BSE test used	
20	Result of rapid test	
21	Degree of staining with immunohistochemical staining (information will need to be obtained from the NRL)	

22	Anything unusual about staining pattern (information will need to be obtained from the NRL)?	
23	Were histopathological lesions noted (information will need to be obtained from the NRL)?	
24	Anything unusual about the histopathological lesions (information will need to be obtained from the NRL)?	
25	Age according to dentition	
	<b>Herd details</b>	
26	Record details of the herds in which the animal spent its first year life e.g.dealer/agent yes or no, date moved in, date moved out, was herd ever diagnosed with BSE in past, ever notified any BSE suspects, dairy, suckler, beef fattening etc, disposal of previous BSE positive animal?	
27	Provide the number and category of bovine animals on the holding at the time the case animal was born. Details of any pets and farmed fish enterprises should also be included.	
28	Provide details of any other animals species including their date of residence that have ever been kept on the farm including any fish enterprises, pet animals, hunting dogs etc.	
29	Has the farm any history of scrapie?	
30	Has farmer ever notified a scrapie suspect?	
	<b>Spatial characteristics</b>	
31	Record X and Y co-ordinates	
32	Attach aerial photograph of all land parcels associated with herd number	
33	Indicate fields, yards and dwelling house associated with herd number	
34	Indicate location of any yards, fields where case animal spent time during first year of life	
35	Describe terrain of farm including any geographical features e.g. rivers, lakes, ring forts, quarries etc	

36	Walk farm. Note anything found in fields, hedges, ditches. Check over all hedges to see what on other side. Ask farmer about activities of neighbours	
37	Did you notice anything unusual during your walk around the farm? Noise? Smell? Anything else?	
38	Record all activities on contiguous land	
39	Can birds be seen on the farm? What types?	
40	Were any contiguous farms associated with BSE? BSE animal born? Reared? Diagnosed?	
41	Was there a disused pig or poultry house on the holding at the time the case animal was under 1 year of age?	
	<b>Parents</b>	
42	Dam ID according to AHCS	
43	Dam ID according to herd register	
44	Dam ID according to any AI or Pedigree records	
45	Dam breed	
46	Was dam pedigree or non pedigree	
47	List all dam's progeny, tag number, date of birth, sex, live/dead, date of death, age at death, BSE tested yes or no, BSE result, sample grade	
48	Date dam's birth according to AHCS	
49	Date of dam's death according to AHCS	
50	Age of dam at death	
51	Clinical history of dam if had one	
52	Premises where dam slaughtered or carcase disposed of	
53	Dam's BSE test result	
54	Grade of dam's BSE sample	
55	Any other comments noted on dam's BSE test result sheet (BSE Surv 6 or OTM1)	
56	Sire ID according to AHCS	
57	Sire ID according to AI or pedigree records	
58	Sire breed	
59	Was sire pedigree or non pedigree	
60	Date sire's birth according to AHCS	

61	Date of sire's death according to AHCS	
62	Age of sire at death	
63	Clinical history for sire if had one	
64	Premises where sire slaughtered or carcase disposed of	
65	Sire's BSE test result	
66	Grade of sire's BSE sample	
67	Any other comments noted on sire's BSE test result sheet (BSE Surv 6 or OTM1)	
	<b>Compliance with identification requirements</b>	
68	Did ear tags or ears show any signs of tampering?	
69	Record details on passport including any anomalies noted and any differences between passport and herd register and AHCS	
70	Examine the herd register. Is it fully completed? Are there gaps? Are there any other anomalies?	
71	Date animal's birth registered on AHCS	
72	Were there any late registrations in herd in 2002, 2003 and 2004. Is the answer is yes please provide more details	
73	Describe any herd profile discrepancies which have been noted for the farm	
74	Describe how these were resolved	
75	Carry out a DNA check between random sample of dams and calves (10). A check of the case animal against one of her progeny should also be carried out if possible.	
	<b>General farm management practices</b>	
76	What is the opinion of individuals in the DVO that know the farmer e.g. Teagasc advisor?	
77	What is your general opinion of farmer eg. Progressive? Disillusioned? Welfare conscious? Anxious to get out?	
78	How long is he/she farming?	
79	Who ran the operation before?	
80	In your opinion is the farm well maintained, average or poorly maintained?	
81	Describe the quality of the fencing on the farm	
82	Is farmer in Reps or any other official scheme?	

83	Describe calving interval, good, bad, average?	
84	Replacements. Bred by AI or bull? When done?	
85	In general when are animals housed in winter?	
86	In general when are animals let out in the Spring?	
87	Are pens with replacements in first winter cleaned out when animals have gone out? How?	
88	Does farmer or anyone else living on premises have off farm employment? If so please describe	
89	Are there contract machinery or haulage vehicles on the farm or were there at the time the case animal was under 1 year of age? If so please describe	
90	Is there machinery for spreading materials such slurry, factory waste etc on the farm? If so inspect and describe	
91	Rodent control. Any evidence that in place? Any visible evidence of rodents?	
92	List all materials e.g. slurry, poultry manure, sewage, blood, other types of Animal By Products, pesticides, agrichemicals, spread on the farm land. Details to include type, source, done by farmer or outside individual, spreading equipment brought onto farm from exogenous source yes or no?	
	<b>Feed</b>	
93	What fodders are used on farm? Home produced? How are they produced? What preservatives are used?	
94	Does farmer use any supplements? Mineral licks? Dicalcium phosphate? Organic or homeopathic feed supplements? If the answer is yes please provide details	

95	Inspect and provide detailed record of all places where feed, feed ingredients or supplements are stored on the farm (or would have been stored in the past) including nature of material, floors, walls, are walls to roof height, silo yes or no, is material separated from other categories of material, hygiene, rodent control, is anything else stored in same air space (machinery, materials etc), evidence of cemented feed material in silos or old feed material in storage area?	
96	If silos are used on the farm please provide a record of what feed is stored in the silos, when did the farmer get them, were new or second hand, in the event they were second hand where were they purchased from?	
97	Describe the farmers cleaning and disinfection arrangements for silos, bays, troughs and buckets.	
98	Is there any evidence of home compounding on farm e.g. straights, protein sources etc?	
99	Does the farmer have a Keenan mixer? If so please inspect, describe contents, hygiene etc and take samples	
100	Were there any bags of feed for other animals to be found on the farm? If so please describe.	
101	Inspect all fertilisers to be found on farm. Record manufacturer and whether organic or inorganic	
102	Does the farm have a tillage operation now or did it have one at the time the case animal was under 1 year of age?	
103	Are any feed materials from exogenous sources stored on the farm or were they stored at the time the case animal was under 1 year of age?	
104	Has farmer ever used any industrial by products to feed to animals on his or her farm e.g bread, brewer's grains etc? If the answer is yes please provide more details.	
105	Did the farmer ever use MBM for any purpose before it was banned?	

106	Did farmer ever purchase any feed or fertilizers for farm in Northern Ireland?	
107	Were calves born at that time allowed to suckle other dams?	
108	Were calves born at that time fed pooled colostrum?	
109	Were calves born at that time fed milk replacer?	
110	What was usual length of time during which milk replacer is fed?	
111	What was the usual amount fed per day?	
112	What types of feed would have been fed to the case animal during its time on the farm (include any supplements and fodders). Record brand, date started, date finished, approximate amount of feed fed per day. Method of administration (trough, on fodder, bucket).	
113	Record all types of feed material e.g. milk replacer, compound feeds, feed supplements, mineral licks, straights and anything else which could conceivably be fed to animals supplied to the farm in the time period when case animal was under one year of age. Record should include manufacturer, place of purchase, date of purchase, amount purchased, batch number if available, bulk or bagged, delivered or collected by farmer..	
114	Was home compounding taking place at time case animal was under 1 year of age?	
115	Would the farmer have been feeding straights to any animal at the time the case animal was under 1 year of age and if so are they home produced or bought in? What category of animal are they fed to?	
116	Arrange with an inspector from Feedingstuffs Division to take representative samples of all feeds on the farm. Arrange to take some samples of old feed material if present (assume is in most cases as feed storage areas rarely completely cleaned) particularly from areas where feed fed to replacement animals in their first year of life is stored. Arrange to take samples from material in the Keenan mixer if there is one present on the holding.	

117	List all fertilisers bought for farm in time period when animal was under 1 year of age including date purchased, place purchased, type of material, manufacturer's name and address, amount purchased, bulk or bagged, delivered or collected by farmer.	
	<b><u>Farm Management practices when case animal was present on the farm</u></b>	
118	When the case animal was born, how soon after calving are placentas removed?	
119	How were placentas disposed of at that time?	
120	How was soiled bedding from calving area disposed of at that time?	
121	Could calves born in that year have had contact with other calving cows? If the answer is yes please provide more detail	
122	Provide details of all areas where the calf would have been placed during its time on the farm. Details must include indoors/outdoors, field number from aerial map, description of walls, floors, bedding, general hygiene, feeding arrangements, any other category of animal in same pens as calves, any other category of animal in contiguous pens or other pens in same building, any thing else stored in same building as animals housed, category of animal in contiguous fields etc	
123	Does farmer recall anything unusual or anything different in his or her management practises at the time the case animal was under 1 year of age?	
	<b><u>History of disease or deficiencies on the farm</u></b>	
124	Speak to PVP to get general history of farm, disease problems, deficiency problems, whether cattle are in good condition at various times, what kind of farmer etc	
125	Are there any records of the case animal being treated in the Animal Remedies Register?	

126	Inspect and describe any animal remedies currently on the holding	
127	Does farmer keep any unofficial records of animals treated? If so any record of case animal?	
128	Does the farmer worm the cattle? Is so list what products would have been used to used worm the case animal while present on the farm	
129	Does the farmer treat cattle for parasites? Is so list what products would have been used to treat the case animal.	
130	What vaccines does the farmer use? List any vaccines that would have been given to the case animal.	
131	Did the case animal ever receive a blood transfusion?	
	<b>History of on farm deaths</b>	
132	What is the farmer's experience with disease over the the last couple of years? Does he/she remember any particular disease problems at any time when the case animal was on the farm?	
133	Record the number of bovine animal deaths on the farm per year. Record the number that went to the knackery. Were the carcasses collected by the knackery or delivered by the farmer?	
134	Have there been any missing animals recorded in the herd? If the answer is yes please provide numbers per year and likely fate of missing animals.	
135	Has farmer reported any lost or stolen animals. If the answer is yes please provide numbers per year	