



Animal and
Plant Health
Inspection
Service

Veterinary
Services

Sheep 2011 VS Initial Visit



National Animal Health
Monitoring System

2150 Centre Ave Bldg B
Fort Collins, CO 80526

Form Approved
OMB Number 0579-0188
Expires 06/2013

State FIPS:	Operation #:	Interviewer:	Date:
2 digits	5 digits	Initials	(mm/dd/yy)

Arrival time at operation: _____

Definitions can be found on page 22.

Section A—General Management

- How many ewes do you have on your operation today that are 1 year of age or older? V100 _____ 1+ yrs
 - How many of these ewes are between 1 and 2 years of age? V101 _____ < 2 yrs
- During 2010, how many of the following types of sheep were **added**, even temporarily, to this operation?
[Include both permanent additions to the flock and rams/ewes temporarily brought in for breeding or other purposes. Do not include natural additions (births).]

	Number animals added	If no animals added, how many years since last addition?
a. Ewes 1 year and older V102	_____	V105 _____
b. Rams 1 year and older V103	_____	V106 _____
c. Lambs under 1 year of either gender... V104	_____	V107 _____

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0188. The time required to complete this information collection is estimated to average 1.25 hours per response, including the time to review instructions, search existing data resources, gather the data needed, and complete and review the information collected.

**NAHMS-249
Jan 2011**

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3. During 2010, did sheep on this operation:

- a. Leave for shows, exhibitions, breeding, or for any other reason and then return to this operation?V108 ₁ Yes ₃ No
- b. Graze with sheep from another operation?.....V109 ₁ Yes ₃ No
- c. Have fence-line contact with sheep from another operation?.....V110 ₁ Yes ₃ No
- d. Have contact with sheep visiting from another operation for any reason such as shearing and breeding?.....V111 ₁ Yes ₃ No
- e. Have any other type of contact with sheep or flocks from another operation? (specify: _____) V112oth.....V112 ₁ Yes ₃ No

[If ALL No, SKIP to Question 5.]

4. During any of the occasions above, were efforts made to decrease nose-to-nose contact with other sheep?.....V113

₁ Yes ₃ No

5. During 2010, were any of the following types of cats present on this operation?

- a. Outdoor domestic or indoor cats with outside accessV114 ₁ Yes ₃ No
- b. Feral or strayV115 ₁ Yes ₃ No
- c. Wild or exotic (e.g., bobcats)V116 ₁ Yes ₃ No
- d. **Any** litters of kittensV117 ₁ Yes ₃ No
- e. Were the contents of a cat litter box discarded by dumping into the sheep raising areas? [N/A-no cats on premises using a litter box.].....V118 ₁ Yes ₃ No/NA

6. During 2010, were any of the following control methods used for rats and mice?

- a. Dogs V119 ₁ Yes ₃ No ₄ No dogs on operation
- b. Traps, baits, and/or poisonV120 ₁ Yes ₃ No
- c. Professional exterminatorV121 ₁ Yes ₃ No
- d. Other (specify: _____) V122oth.....V122 ₁ Yes ₃ No

7. During 2010, did you have any of the following types of visitors on your operation, and if Yes, did they enter the sheep-raising areas?

	Visited	If Yes, did they enter the sheep-raising areas?		
a.	Other sheep producers	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V123/133
b.	Federal/State veterinarian or animal health worker	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V124/134
c.	Extension agent or university veterinarian	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V125/135
d.	Private or company veterinarian	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V126/136
e.	Nutritionist or feed company consultant	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V127/137
f.	Customer (private individual) to purchase meat, wool, or other sheep products	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V128/138
g.	Sheep buyer or dealer	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V129/139
h.	Renderer	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V130/140
i.	Shearer	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V131/141
j.	Other visitors such as neighbors, friends, school field trips, 4-H group, hunters, etc.	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V132/142

[If the responses in Question 7, 2nd column, all equal No or missing, SKIP to Question 9.]

8. Of those visitors that entered the sheep-raising areas (question 7, 2nd column), how often are visitors required to perform the following biosecurity practices before entering the sheep-raising area?

	All visitors (from #7, 2 nd column)	If Sometimes is checked in column 1, was this practice ALWAYS required for visitors who handle sheep, such as other sheep producers?		
a.	Change into clean clothes or coveralls	<input type="checkbox"/> ₁ Always <input type="checkbox"/> ₂ Sometimes → <input type="checkbox"/> ₃ Never	<input type="checkbox"/> ₁ Yes	V143/149
b.	Use a footbath before entry	<input type="checkbox"/> ₁ Always <input type="checkbox"/> ₂ Sometimes → <input type="checkbox"/> ₃ Never	<input type="checkbox"/> ₁ Yes	V144/150
c.	Change into clean boots or use shoe covers	<input type="checkbox"/> ₁ Always <input type="checkbox"/> ₂ Sometimes → <input type="checkbox"/> ₃ Never	<input type="checkbox"/> ₁ Yes	V145/151
d.	Scrub footwear before or immediately after entry	<input type="checkbox"/> ₁ Always <input type="checkbox"/> ₂ Sometimes → <input type="checkbox"/> ₃ Never	<input type="checkbox"/> ₁ Yes	V146/152
e.	Wash hands or use hand sanitizer before handling sheep	<input type="checkbox"/> ₁ Always <input type="checkbox"/> ₂ Sometimes → <input type="checkbox"/> ₃ Never	<input type="checkbox"/> ₁ Yes	V147/153
f.	Park away from sheep area	<input type="checkbox"/> ₁ Always <input type="checkbox"/> ₂ Sometimes → <input type="checkbox"/> ₃ Never	<input type="checkbox"/> ₁ Yes	V148/154

9. During 2010, which of the following man-made housing structures were used for the **majority** of ewes:
[Check one only for each row.]

	Structure with four walls and roof with door closed most of the time	Structure with four walls and roof with door open most of the time	Structure with roof and three or fewer walls, e.g., loafing shed	No structure	
a. During winter?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	V155
b. During summer?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	V156
c. For lambing?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	V157

10. During 2010, how often did this operation use the same equipment (e.g., tractor buckets and shovels) to handle both manure and sheep feed? *[Check one only.]*

- ₁ Routinely V158
₂ Sometimes/rarely
₃ Never

[If Never, SKIP to Question 12.]

11. Which of the following best describes the procedures used for cleaning equipment after handling manure and before handling feed? *[Check one only.]*

- ₁ Wash equipment with water or steam only V159
₂ Chemically disinfect only
₃ Wash equipment and chemically disinfect
₄ Other (specify: _____) V159oth

12. Does this operation make use of manure by:

- | | | |
|--|---|--|
| a. Applying it to land either owned or rented by the operation?.....V160 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| b. Selling it or receiving other compensation?V161 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| c. Giving it away?V162 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| d. Composting?V163 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| e. Other? (specify: _____) V164othV164 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |

Section B—Last Completed Lamb Crop

13. Which of the following describes how you determine your lambing rate? *[Check one only.]*

- ₁ Lambs born divided by ewes bred ₃ Lambs weaned divided by ewes bred V165
₂ Lambs docked divided by ewes bred ₄ Other (specify: _____) V165oth

14. What is your normal or average lambing rate?V166 _____

The remaining questions in this section ask about the last COMPLETED lamb crop (defined as lambs having been weaned). It can be in 2011 if completed by this visit, or it might have been in 2010. If more than one lambing season in a year, use the LAST completed crop.

The remaining questions in this section ask about the last COMPLETED lamb crop (defined as lambs having been weaned). It can be in 2011 if completed by this visit, or it might have been in 2010. If more than one lambing season in a year, use the LAST completed crop.

15. For the last completed lambing season:
- a. What time of year was it? *[Check one only.]* .. V167 ₁ Fall ₂ Winter ₃ Spring ₄ Summer
 - b. In what year did it occur? V168 ₁ 2010 ₂ 2010–11 ₃ 2011
16. For the last completed lambing season, how many ewes were:
- a. Bred by this operation? V169 _____ bred
 - b. Added to this operation already bred? V170 _____ added
 - i. If more than 0, were the added bred ewes separated from the rest of the flock until after they lambd? V171 ₁ Yes ₃ No
 - c. TOTAL bred ewes for last completed lambing season [#16a+16b]..... V172 _____ total
17. How many ewes **lambd** with full-term births? *[must be ≤ #16c]* V173 _____ ewes
18. How many of the ewes that lambd were first-lambing ewes? *[must be ≤ #17]*..... V174 _____ first
- a. Were these first-lambing ewes separated from the rest of the flock until after they lambd? V175 ₁ Yes ₃ No ₄ No 1st ewes

Now I'm going to ask about the lambs for the last completed lamb crop (defined as lambs having been weaned).

19. How many lambs were:
- a. Born alive? V176 _____ alive
 - b. Born dead (stillborn)?..... V177 _____ dead
 - c. Total *[Confirm with Producer.]* V178 _____ total
 - d. Number weaned V179 _____ weaned
 - e. Number docked V180 _____ docked
20. Was the lambing rate of this last completed lamb crop lower than your usual lambing rate?..... V181 ₁ Yes ₃ No

[If No, SKIP to Question 22.]

21. Which of the following best describes the main reason your last lambing rate was lower than expected? *[Check one only.]*
- ₁ Open ewes (bred but did not take) ₅ Ram fertility V182
 - ₂ Abortions ₆ Other (specify: _____) V182oth
 - ₃ Lamb deaths (include stillborns) ₇ Do not know
 - ₄ Reduced twinning/triplets

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22. Which of the following best describes the **primary** reason for lamb deaths for the last completed lamb crop? *[Check one only.]*

- ₁ Predators V183
- ₂ Weather (temperature, lightning, flood, etc.)
- ₃ Disease (specify: _____) V183Aoth
- ₄ Other reasons (specify: _____) V183Both
- ₅ Do not know
- ₆ No lamb deaths

23. How many lambs born during the last completed lambing season were supplemented with **milk or milk replacer**?

[Do not include colostrum here.].....V184 _____ lambs

[If None, SKIP to Question 26.]

24. Were any of the following sources of **milk or milk replacer** used for the last lamb crop?

- a. Sheep milk from this operationV185 ₁ Yes ₃ No
- b. Liquid sheep milk from outside source.....V186 ₁ Yes ₃ No
- c. Dried milk or milk replacerV187 ₁ Yes ₃ No
- d. Fresh cow milkV188 ₁ Yes ₃ No
 - i. If Yes, was it from a herd tested for Johne's?V189 ₁ Yes ₃ No DK
- e. Goat milkV190 ₁ Yes ₃ No
- f. Other (specify: _____) V191othV191 ₁ Yes ₃ No

25. Was the supplemented fresh milk pasteurized? *[Check one only.]*

- ₁ Yes V192
- ₃ No
- ₄ Do not know
- ₅ Used only milk replacer

Section C—Lamb Management During 2010

26. During 2010, did you use the EZ Breed® CIDR progesterone insert as a breeding tool? *[approved October 2009]*.....V193

₁ Yes ₃ No

[If No, SKIP to Question 29.]

27. Was the EZ Breed® CIDR used:

- a. For out-of-season breeding?.....V194 ₁ Yes ₃ No
- b. To synchronize estrus in season?V195 ₁ Yes ₃ No
- c. With a gonadotropin (GnRH)?V196 ₁ Yes ₃ No
- d. For other purposes? (specify: _____) V197oth.....V197 ₁ Yes ₃ No

28. Would you use EZ Breed® CIDR again?V198 ₁ Yes ₃ No ₄ Don't know

29 During 2010, which of the following best describes how frequently the following areas were cleaned of **both manure and waste bedding** during the lambing season?

		Between each ewe	Between two or more ewes	At the end of lambing season	Not cleaned	
a.	Lambing area	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	V199
b.	Jugs for ewe-lamb pairs	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄ <input type="checkbox"/> ₅ Check here if jugs not used	V200

30. During 2010, were placentas usually removed from the area where ewes lambed?V201 ₁ Yes ₃ No

[If No, SKIP to Question 33.]

31. What is the average length of time (in hours) placentas were left on the ground before removal?V202 _____ hours

32. Which of the following best describes how placentas were usually disposed of? *[Check one only.]*

- ₁ Burn/incinerate
- ₂ Bury
- ₃ Render
- ₄ Landfill/dump
- ₅ Compost
- ₆ Throw out for carnivores
- ₇ Other (specify: _____) V203oth

33. How many ewes aborted during 2010?V204 _____ ewes

[If None, SKIP to Question 37.]

34. Of the ewes that aborted, approximately how many were first-lambing ewes?V205 _____ ewes

35. Were any of the following steps taken for aborting ewes?

- a. Removed placentas or fetuses as soon as possible.....V206 ₁ Yes ₃ No
- b. Cleaned the area by removing bedding and/or dirt.....V207 ₁ Yes ₃ No
- c. Disinfected the areaV208 ₁ Yes ₃ No
- d. Physically separated ewes that aborted from other ewesV209 ₁ Yes ₃ No
 - i. If Yes, how many days were they separated before being returned to the flock?
 - ₁ _____ days separated before returning V210/V211 (days)
 - ₂ Not returned to flock for rest of lambing season
 - ₃ Never returned to flock

36. Were the abortions caused by any of the following?
 If Yes, were causes diagnosed by a veterinarian or laboratory?

	Abortion cause		If Yes, was cause diagnosed by a vet or a lab?		
a. Campylobacteriosis (vibrio abortion).....	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No/DK	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V212/V219
b. Chlamydiosis (enzootic abortion).....	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No/DK	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V213/V220
c. Toxoplasmosis	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No/DK	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V214/V221
d. Q fever.....	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No/DK	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V215/V222
e. Salmonellosis	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No/DK	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V216/V223
f. Listeriosis	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No/DK	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V217/V224
g. Cache Valley virus	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No/DK	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V217a/V224a
h. Other (specify: _____) V218oth	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No/DK	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V218/V225

37. During 2010, did you use the lambing area for sick ewes:

- a. During lambing?V226 ₁ Yes ₃ No
- b. At other times of the year?V227 ₁ Yes ₃ No

38. During 2010, were any lambs given **colostrum** at birth, **from a source other than their mothers?**V228 ₁ Yes ₃ No

[If No, SKIP to Question 41.]

39. Were any of the following sources of **colostrum** used?

- a. Sheep colostrum from this operationV229 ₁ Yes ₃ No
- b. Liquid sheep colostrum from outside sourceV230 ₁ Yes ₃ No
- c. Dried sheep colostrumV231 ₁ Yes ₃ No
- d. Cow colostrumV232 ₁ Yes ₃ No
- I. If Yes, was it from a herd tested for Johne's?.....V233 ₁ Yes ₃ No ₄ DK
- e. Goat colostrum.....V234 ₁ Yes ₃ No
- f. Other (specify: _____) V235othV235 ₁ Yes ₃ No

40. How many hours following birth were newborn lambs typically given/fed their first colostrum?.....V236 _____ hours

41. For the **majority** of lambs born during 2010, which of the following best describes the length of lambs' tails after docking?
 [Check one only.]

- ₁ **1** Shorter than the caudal fold (bare skin located under the tail which comes together in a "V")
- ₂ **2** At the caudal fold
- ₃ **3** Longer than the caudal fold.
- ₄ No tail docking performed

V237



Section D—Disease Control, Illness, and Death

42. During 2010, did you usually separate injured sheep from the rest of the flock?V238 ₁ Yes ₃ No ₄ No injured sheep
43. During 2010, did you typically isolate sick sheep from the rest of the flock?V239 ₁ Yes ₃ No ₄ No sick sheep

[If No or No sick sheep, skip to Question 46.]

44. Were these **sick** sheep usually isolated in any of the following?
- a. In pen specifically for sick animals but located in the same housing as other sheepV240 ₁ Yes ₃ No
 - b. In a separate, covered structureV241 ₁ Yes ₃ No
 - c. In a separate fenced area outsideV242 ₁ Yes ₃ No
 - d. Other isolated area (specify: _____) V243othV243 ₁ Yes ₃ No
45. For isolated sick animals during 2010, which of the following best describes how frequently the area was cleaned (at least all bedding material removed)?
[Check one only.]
- ₁ After each sick animal leftV244
 - ₂ Weekly
 - ₃ Monthly
 - ₄ Seasonally
 - ₅ No set time period to clear out the pen
46. If a pregnant ewe shows weight loss with a normal appetite **and does not respond to treatment**, which of the following best describes what you would do most frequently? *[Check one only.]*
- ₁ Cull her before lambingV245
 - ₂ Allow her to lamb and then re-evaluate or cull her
 - ₃ Keep her regardless of the above signs
47. Before this study, how familiar were you with Johne's disease (paratuberculosis)?
[Check one only.]
- ₁ Very familiarV246
 - ₂ Somewhat familiar
 - ₃ Heard of name only
 - ₄ Never heard of

[If Heard of name only or Never heard of, SKIP to Question 49.]

48. Do you currently have a flock health management program to **specifically** control or prevent Johne's disease in your flock?V247 ₁ Yes ₃ No

49. Before this study, how familiar were you with scrapie? *[Check one only.]*

₁ Very familiar

V248

₂ Somewhat familiar

₃ Heard of name only

₄ Never heard of

[If Heard of name only or Never heard of, SKIP to Question 52.]

50. Are you doing any genetic selection for scrapie control in your flock?V249 ₁ Yes ₃ No

[If No, SKIP to Question 52.]

51. Which of the following selection practices are you currently using?

a. Using genetically less susceptible replacement rams

(i.e., RR alleles).....V250

₁ Yes ₃ No

b. Selecting genetically less susceptible ewes (i.e., QR or RR alleles).....V251

₁ Yes ₃ No

c. Culling genetically more susceptible ewes (i.e., QQ alleles)V252

₁ Yes ₃ No

d. Other (specify: _____) V253othV253

₁ Yes ₃ No

52. Do you have an APHIS-assigned flock identification number?V254 ₁ Yes ₃ No

[A flock identification number is a unique number used on official ear tags and tattoos to identify the flock or origin of an animal. The number is recorded in the Scrapie National Generic Database.]

53. Do you use official APHIS ear tags with the U.S. shield logo in your flock?V255 ₁ Yes ₃ No



[An official APHIS ear tag has the U.S. shield logo, State code, and a unique flock identification number.]

[If No, SKIP to Question 55.]

54. Who applies the tags? *[Check all that apply.]*

₁ You or other farm worker

V256

₂ Veterinarian

V257

₃ Market

V258

₄ Other (specify: _____) V259oth

V259

[If Question 54 was answered, skip to Question 57.]

If Question 54 was answered, skip to Question 57.

55. Which of the following describes why you do not use official ear tags in your flock?
[Check all that apply.]

- a. I only sell slaughter lambs so am not required to apply official ID. V260 ₁ Yes ₃ No
- b. I do not move sheep off my farm so I am not required to apply official ID...V261 ₁ Yes ₃ No
- c. I did not know I was required to officially identify my sheep before they leave the farm.....V262 ₁ Yes ₃ No
- d. I use another type of official identification instead of official ear tags.....V263 ₁ Yes ₃ No
 If Yes, what other types of ID to you use?
 - i. Official flock ID tattoos.....V264 ₁ Yes ₃ No
 - ii. Registry tattoosV265 ₁ Yes ₃ No
 - iii. Registry recorded electronic identification implantsV266 ₁ Yes ₃ No
 - iv. Other types (specify: _____) V267othV267 ₁ Yes ₃ No
- e. I do not use official ear tags for other reasons (specify: _____) V268oth.....V268 ₁ Yes ₃ No

56. Are you aware that official APHIS ear tags are available and free by calling a toll-free number? *[1-866-USDA-TAG (1-866-873-2824)]*.....V269 ₁ Yes ₃ No

57. Before this study, how familiar were you with ovine progressive pneumonia (OPP)?
[Check one only.]

- ₁ Very familiar V270
- ₂ Somewhat familiar
- ₃ Heard of name only
- ₄ Never heard of

[If Heard of name only or Never heard of, SKIP to Question 61.]

58. Do you have a current flock health management program **specifically** to control or prevent OPP in your flock?V271 ₁ Yes ₃ No

[If No, SKIP to Question 60.]

59. Which of the following methods do you use to control or prevent OPP in your flock?

- a. Remove from flock all seropositive sheep and lambs (sold and/or isolated in separate facilities).....V272 ₁ Yes ₃ No
- b. Keep flock isolated from infected sheep or goatsV273 ₁ Yes ₃ No
- c. Add only seronegative **sheep** to flock..... V274 ₁ Yes ₃ No ₄ No sheep added
- d. Add only sheep from OPP-seronegative **flocks** V275 ₁ Yes ₃ No ₄ No sheep added
- e. Test goats (if present) for CAE (caprine arthritis encephalitis)..... V276 ₁ Yes ₃ No ₄ No goats
- f. Other methods (specify: _____) V277othV277 ₁ Yes ₃ No

60. Which of the following best describes the current OPP status of your flock? *[Check one only.]*

- ₁ Currently infected with OPP
- ₂ Previously infected with OPP but now negative
- ₃ Never infected with OPP
- ₄ Do not know current OPP status

V278

61. How familiar are you with the following diseases?

- a. Toxoplasmosis V279 ₁ Very ₂ Somewhat ₃ Heard of name only ₄ Never heard of
- b. Q fever..... V280 ₁ Very ₂ Somewhat ₃ Heard of name only ₄ Never heard of

62. At any time **during the previous 3 years**, have any of the following been **suspected or confirmed** in your flock:
If Yes, was it diagnosed by a veterinarian or laboratory?

	In the flock during the previous 3 years?	If Yes, was it diagnosed by either a veterinarian or a lab?	
a. Johne's (paratuberculosis).....	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V281/V292
b. Scrapie	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V282/V293
c. Ovine progressive pneumonia (OPP)	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V283/V294
d. Footrot.....	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V284/V295
e. Caseous lymphadenitis (lumpy jaw)	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V285/V296
f. Enterotoxemia/overeating disease (clostridium C&D) (not grain overload).....	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V286/V297
g. Other clostridial diseases (e.g., blackleg, malignant edema, braxy, tetanus, botulism, big head).....	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V287/V298
h. Coccidiosis.....	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V288/V299
i. Sore mouth (contagious ecthyma) [orf].....	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V289/V300
j. Ring worm or club lamb fungus	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V290/V301
k. Bluetongue	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	V291/V302

63. Were any sheep or lambs on your operation vaccinated in 2010?
[Answer Yes if sheep were vaccinated on another operation.]..... V303 ₁ Yes ₃ No

[If No, SKIP to Question 66.]

[If Question 63 = No, SKIP to Question 66.]

64. Which of the following vaccines were used in 2010 for [read column heading]:
 [Enter "X" in appropriate columns for each vaccine used for the age groups listed.]

	Nursing lambs	Weaned feeder (market) lambs	Weaned replacement lambs	Ewes	Rams
CHECK box if you didn't have this class of sheep -->	V304	V315	V326	V341	V356
CLOSTRIDIAL					
a. Blackleg, malignant edema, 7- or 8-way (<i>Clostridium chauvoei</i> and/or <i>Cl. septicum</i>) and/or <i>Cl. novyi</i> and/or <i>Cl. sordellii</i>)	V305	V316	V327	V342	V357
b. Enterotoxemia, overeating (<i>Cl. perfringens</i> C and D)	V306	V317	V328	V343	V358
c. Tetanus (<i>Cl. tetani</i>)	V307	V318	V329	V344	V359
RESPIRATORY					
d. IBR-PI-3 (Nasalgen®)	V308	V319	V330	V345	
e. Pneumonia (<i>Pasteurella/Mannheimia</i>)	V309	V320	V331	V346	V360
DIGESTIVE					
f. Scours (<i>E. coli</i>)	V310	V321	V332	V347	
g. Rotavirus (bovine rotavirus vaccine)			V333	V348	
OTHER					
h. Lumpy jaw (<i>Caseous lymphadenitis</i>)	V311	V322	V334	V349	V361
i. Ram epididymitis bacterin (<i>Brucella</i>)					V362
j. Footrot (Footvax®)	V312	V323	V335	V350	V363
k. Rabies	V313	V324	V336	V351	V364
l. Sore mouth (contagious ecthyma)	V314	V325	V337	V352	V365
ANTI-ABORTION					
m. EAE (<i>Chlamydia abortus</i>)			V338	V353	
n. Leptospirosis			V339	V354	
o. <i>Campylobacter fetus/jejuni</i> (vibrio)			V340	V355	



⇐ Colorado Serum Co.

Hygieia Biological Labs ⇐



If a *Campylobacter* vaccine used ("X" marked above), check which vaccine used in 2010.

Colorado Serum Co.
 Hygieia Biological Labs

Colorado Serum Co.
 Hygieia Biological Labs

V366/V367

[In the previous question, if No sore mouth vaccine given (item L) for all age categories, SKIP to Question 66.]



65. Which sore mouth vaccine was used most recently? *[Check one only.]*

- ₁ Colorado Serum Company® (pictured at right) V368
- ₂ Autogenous vaccine from veterinarian
- ₃ Other (specify: _____) V368oth
- ₄ Do not know

66. Who vaccinated sheep for sore mouth during 2010, and were gloves worn when vaccine was administered?

	Gave vaccine	If Yes, were gloves worn?		
a. Veterinarian.....V369/V373	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₄ DK
b. Farm worker(s).....V370/V374	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₄ DK
c. Owner/operatorV371/V375	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₄ DK
d. Other (specify: _____) V372oth ..V372/V376	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₄ DK

67 If Footvax® (vaccine for footrot) was available, would you use it?.....V377 ₁ Yes ₃ No

[Note to VMO/AHT: Footvax® is not being manufactured at this time. Some veterinarians may still have it available so some producers may have vaccinated. The industry wants to measure interest in having this vaccine available again.]



The following questions ask about lambs intended for market that have been weaned while still on the operation. EXCLUDE lambs destined for market but still nursing and lambs that are “weaned” as they are loaded on a truck for transport to feedlot or slaughter.

68. During 2010, did this operation have any weaned lambs intended for market?V378 ₁ Yes ₃ No

[If No, SKIP to Question 73.]

69. How many **injections** of any kind (vaccines, treatments, etc.) did a **weaned market** lamb typically receive as a weaned market lamb while on this operation during 2010?V379 _____ injections

[If None, SKIP to Question 73.]

70. Of all injections administered to weaned market lambs, what percentage were administered by:

- a. Farm personnel? V380 _____ %
- b. Veterinarian? V381 _____ %
- c. Other? (specify: _____) V382oth V382 _____ %
- d. Total *[should equal 100%]* 100 %

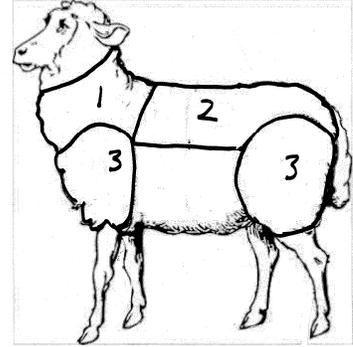
71. Of **all** injections administered to weaned market lambs, what percentage were:

- a. Intramuscular (IM)? V383 _____ %
 - b. Subcutaneous (SQ)?..... V384 _____ %
 - c. Intravenous (IV)?..... V385 _____ %
- Total [should equal 100%] 100%

[If Intramuscular is None, skip to Question 73.]

72. If **any** intramuscular injections were given to weaned market lambs, what was the **primary** location used?

- ₁ Neck V386
- ₂ Loin
- ₃ Leg
- ₄ Other location (specify: _____) V386oth



NOTE: The following questions ask about ALL lambs and ewes.

73. During 2010, did you use oral, injectable, or topical antibiotics on **lambs or ewes** to treat **any** disease?V387 ₁ Yes ₃ No

[If No, SKIP to Question 76.]

74. Were antibiotic treatment records typically kept with the following information?

- a. Product expiration dateV388 ₁ Yes ₃ No
- b. Name of product.....V389 ₁ Yes ₃ No
- c. Identity of animals treated.....V390 ₁ Yes ₃ No
- d. Reason for treatmentV391 ₁ Yes ₃ No

The next series of questions ask about antibiotics given INDIVIDUALLY as a treatment for disease or disorders during 2010. Do not include antibiotics put in feed or water OR given as preventive treatments.

75. Complete the table below for **individually given oral, injectable, and topical antibiotics used during 2010 for treating DISEASES or DISORDERS**. Do not include preventive treatments.
[Codes for the antibiotic list can be found on Guide 1, given out at field training.]

	Nursing lambs			Weaned replacement lambs			Weaned market lambs			Ewes		
	Number affected*	Number treated	Code for antibiotics used	Number affected*	Number treated	Code for antibiotics used	Number affected*	Number treated	Code for antibiotics used	Number affected*	Number treated	Code for antibiotics used
Respiratory	V392	V397	V402	V407	V412	V417	V422	V427	V432	V437	V445	V453
Diarrhea/scours or other digestive	V393	V398	V403	V408	V413	V418	V423	V428	V433	V438	V446	V454
Pinkeye	V394	V399	V404	V409	V414	V419	V424	V429	V434	V439	V447	V455
Navel infection	V395	V400	V405									
Lameness/footrot				V410	V415	V420	V425	V430	V435	V440	V448	V456
Reproductive (retained placenta/uterine infection)										V441	V449	V457
Mastitis										V442	V450	V458
Abortion										V443	V451	V459
Other (specify)	V396	V401	V406	V411	V416	V421	V426	V431	V436	V444	V452	V460

*Include all affected animals, whether or not treated.

76. During 2010, did this operation use a coccidiostat in feed or water?.....V461 ₁ Yes ₃ No

[If No, SKIP to Question 78.]

77. Which of the following coccidiostats were used in **feed or water**?

	FEED		WATER	
a. Ionophores (Rumensin®, Bovatec®, Monensis, Lasalocid) V462	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No		
b. Sulfa drugs (Albon®, Sulmet®, etc.)..... V463/V467	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No
c. Decoquinatate (Deccox®)..... V464/V468	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No
d. Amprolium (Corrid®) V465/V469	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No
e. Other (specify: _____) V466oth V466/V470	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No

78. During 2010, did this operation use a growth promotant or antibiotics for disease prevention **in feed or water**?V471 ₁ Yes ₃ No

[If No, SKIP to Question 80.]

79. Which of the following were used for growth promotion and/or disease prevention in feed or water?

	FEED			WATER		
	Yes	No	DK	Yes	No	DK
a. Aureomycin premix or soluble powder..... V472/477	<input type="checkbox"/> ₁	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₁	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
b. Tetracycline (e.g., Chlormax®, Terramycin®, etc.)..... V473/478	<input type="checkbox"/> ₁	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₁	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
c. Neomycin sulfate (e.g., Biosol®, Neomycin solution) V474/479	<input type="checkbox"/> ₁	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₁	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
d. Other antibiotics (specify: _____) V475oth V475/480	<input type="checkbox"/> ₁	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₁	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
e. Ionophores (Rumensin®, Bovatec®, Lasalocid)..... V476	<input type="checkbox"/> ₁	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄			

80. During 2010, did this operation use **hormone implants** such as Ralgro® in lambs for **growth promotion**?V481 ₁ Yes ₃ No

Section E—Parasites and Deworming

81. During 2010, was fecal testing performed for intestinal parasites?.....V482 ₁ Yes ₃ No

82. During 2010, how often was a dewormer for stomach or intestinal worms (not including coccidia) used **in sheep feed**?.....V483 ₁ Always ₂ Sometimes ₃ Never

For this next question, we want to know about dewormers that were NOT in the feed.

83. During 2010, did you use a dewormer given either orally or by injection?V484 ₁ Yes ₃ No ₄ DK

[If No or Don't know, SKIP to Question 85.]

[If Question 83 is No or Don't know, SKIP to Question 85.]

84. During 2010, were ewes or lambs dewormed for any of the following reasons?

	Ewes		Lambs		
a. General prevention measure	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V485/V491
b. Because worms were seen	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V486/V492
c. Fecal test results indicated a need	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V487/V493
d. Because sheep or lambs were thin or doing poorly	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V488/V494
e. Bottlejaw, scours, and other clinical signs	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V489/V495
f. Other (specify: _____) V490oth	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	V490/V496

85. Does this operation use the FAMACHA® card/eye color (anemia) score for sheep or lambs? V497 ₁ Yes ₃ No

[If No, SKIP to Question 87.]

86. Was the FAMACHA card used to:

a. Identify or cull worm-susceptible sheep or lambs?	V498	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No
b. Selectively deworm sheep or lambs (e.g., only sheep or lambs with certain scores are dewormed)?	V499	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No
c. Other? (specify: _____) V500oth	V500	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No

87. During 2010, how often did you usually deworm the following types of sheep using conventional or natural/alternative dewormers?

	Never	Less than once a year	Once a year	More than once a year	
a. Preweaned lambs	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	V501
b. Weaned replacement lambs	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	V502
c. Weaned market lambs	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	V503
d. Ewes.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	V504

[If Never for all animal classes, SKIP to Question 92.]

88. Were any of the following natural or chemical dewormers used during 2010?

a. High tannin concentrate plants (e.g., lespedeza)	V505	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No
b. Natural or alternative dewormers (e.g., diatomaceous earth, botanicals, herbs, cayenne pepper, copper oxide wire particles)..... If Yes, specify: _____ V506oth	V506	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No
c. Ivomec®-ivermectin, or Dectomax® (doramectin).....	V507	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No
d. Cydectin®/Quest® (moxidectin).....	V508	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No
e. Panacur®/Safeguard® (fenbendazole), or Valbazen® (albendazole) or Synanthic® (oxfendazole).....	V509	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No
f. Rumatel® (morantel) or Strongid® (Pyrantel).....	V510	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No
g. Levasole®/Tramisol® (levamisole)	V511	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No
h. Other (specify: _____) V512oth	V512	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No

89. Does this operation do any of the following to prolong or improve the efficacy of the dewormers used?

- a. Rotate dewormer type..... V513 ₁ Yes ₃ No
- b. Monitor effectiveness by fecal testing V514 ₁ Yes ₃ No
- c. Deworm more often..... V515 ₁ Yes ₃ No
- d. Deworm less often/strategically V516 ₁ Yes ₃ No
- e. Other (specify: _____) V517oth V517 ₁ Yes ₃ No

90. What is the **primary** way this operation determines whether or not the dewormer program is working? *[Check one only.]*

- ₁ Achieve expected performance V518
- ₂ Appearance of sheep
- ₃ Fecal consistency (no diarrhea)
- ₄ Improved eye score
- ₅ Laboratory testing
- ₆ Other (specify: _____) V518oth

91. How important are the following sources for deworming information?

- | | Importance | | |
|--|--|--|---|
| | <input type="checkbox"/> ₁ Very | <input type="checkbox"/> ₂ Somewhat | <input type="checkbox"/> ₃ Not |
| a. Veterinarian.....V519 | <input type="checkbox"/> ₁ Very | <input type="checkbox"/> ₂ Somewhat | <input type="checkbox"/> ₃ Not |
| b. Other sheep producersV520 | <input type="checkbox"/> ₁ Very | <input type="checkbox"/> ₂ Somewhat | <input type="checkbox"/> ₃ Not |
| c. Sales representativeV521 | <input type="checkbox"/> ₁ Very | <input type="checkbox"/> ₂ Somewhat | <input type="checkbox"/> ₃ Not |
| d. Extension/university personnelV522 | <input type="checkbox"/> ₁ Very | <input type="checkbox"/> ₂ Somewhat | <input type="checkbox"/> ₃ Not |
| e. Magazines/journals/club or 4-H publications (articles and/or ads)V523 | <input type="checkbox"/> ₁ Very | <input type="checkbox"/> ₂ Somewhat | <input type="checkbox"/> ₃ Not |
| f. InternetV524 | <input type="checkbox"/> ₁ Very | <input type="checkbox"/> ₂ Somewhat | <input type="checkbox"/> ₃ Not |
| g. Other source (specify: _____) V525othV525 | <input type="checkbox"/> ₁ Very | <input type="checkbox"/> ₂ Somewhat | <input type="checkbox"/> ₃ Not |

92. How involved is your veterinarian regarding the:

- | | Very involved | Somewhat involved | Not involved |
|---|---------------------------------------|---------------------------------------|---------------------------------------|
| a. Diagnosis of parasite infections? V526 | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ |
| b. Decisions about parasite treatments (dewormer)? V527 | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ |

93. During 2010, did this operation use the following fecal tests to determine resistance to dewormers?

- a. Fecal egg count reduction (worm egg count both before and after deworming).....V528 ₁ Yes ₃ No
- b. DrenchRite[®] (assay for resistance to dewormers)V529 ₁ Yes ₃ No
- c. Other (specify: _____) V530othV530 ₁ Yes ₃ No

94. During 2010, did this operation use the following for:

- | | Pour-on product | Topical spray | Dip |
|---------------------------------|--|--|--|
| a. Fly and/or ked control?..... | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| b. Tick control?..... | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
V531
V532 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
V533
V534 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
V535
V536 |

Section F—Pasture Management and Feeding Practices

95. When sheep grazed on pasture during 2010, did you use any of the following pasturing methods?

- | | |
|---|--|
| a. Alternated grazing sheep and other domestic species, such as cattle or horses.....V537 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| b. Commingled cattle or horses with ewe/lamb pairsV538 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| c. Alternated grazing sheep and crop or hay productionV539 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |

96. During 2010, did this operation use pasture rotation?V540 ₁ Yes ₃ No

[If No, SKIP to Question 98.]

97. On average, how many days was pasture allowed to rest between grazing sheep?V541 _____ days

98. During 2010, was harvested or commercial feed **placed** directly on the ground for sheep to eat?V542 ₁ Yes ₃ No

99. Did the flock **typically** have access to the following water sources during winter and summer?

- | | Winter | Summer | |
|--|--|--|-----------|
| a. Pond/lake/reservoir (or other standing water)..... | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | V543/V548 |
| b. Stream (or other running water)..... | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | V544/V549 |
| c. Bucket, trough, or waterer where rim is less than 2 feet off the ground | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | V545/V550 |
| d. Bucket, trough, or waterer where rim is 2 feet or more off the ground | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | V546/V551 |
| e. Other (specify: _____) V547oth | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | V547/V552 |

100. Which water source is the **primary** source during:
[Enter number code from below.]

- | | |
|---------------------|------------|
| a. Winter?.....V553 | _____ code |
| b. Summer?.....V554 | _____ code |

- 1 = Pond/lake/reservoir
- 2 = Stream
- 3 = Bucket, trough, or waterer where rim is less than 2 feet off the round
- 4 = Bucket, trough, or waterer where rim is 2 feet or more off the round
- 5 = Other water source
- 6 = Multiple sources used equally; can't pick one primary source

State/Operation #: _____

101. In general, do weaned lambs less than 12 months of age share common feed OR water sources with adult sheep? V555 ₁ Yes ₃ No ₄ No weaned lambs

102. Do you ever place thin ewes with younger sheep to encourage or to increase the ewes' feed intake? V556 ₁ Yes ₃ No

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State FIPS: _____ 2-digits	Operation #: _____ 5-digits	Interviewer: _____ Initials	Date: ____ / ____ / ____ (mm/dd/yy)
-------------------------------	--------------------------------	--------------------------------	--

1. Total time for interview [include time to discuss the program and complete the questionnaire] ____ min

2. Total travel time [round trip] ____ min

3. Data collector(s): [Enter the number for each category.]
____ Federal VMO ____ Federal AHT ____ State personnel ____ Other (specify)

4. Enter response code 99 if questionnaire is completed or enter one code of 0 through 7 that best describes the reason why the owner is not participating ____ code

- 99 - Survey completed
- 00 - Producer not contacted by VMO
- 01 - Poor time of year to contact or no time
- 02 - Does not want anyone on operation
- 03 - Bad experience with government veterinarians
- 04 - Does not want to do another survey or divulge information
- 05 - Told NASS they did not want to be contacted
- 06 - Ineligible (no sheep)
- 07 - Other reason (explain below)

5. Producer data quality ₁ Good to excellent ₂ OK ₃ Poor

6. Field data quality ₁ Good to excellent ₂ OK ₃ Poor

Comments regarding this questionnaire or operation:

VMO or AHT Signature: _____

Word Definitions

Abortion: The premature delivery of a nonviable lamb. The lamb might be breathing when it is born, but it dies shortly thereafter because it did not develop well enough to be capable of surviving outside the mother.

Bred: Exposed to a ram during breeding season.

Breeding season: The period of time when a ewe is showing estrus.

Lamb: Can mean different things to different producers. For the purpose of this study, a lamb is a sheep that is less than 1 year of age. Ewe lambs can be bred while still a lamb, but by the time they give birth, they are ewes.

Stillborn: A fetus that is fully mature but dead at birth.

Weaned: When a lamb has been removed from a diet of the ewe's milk or milk replacement. The lamb is then fed a forage- or grain-based diet.

Yearling: A sheep that is older than 12 months and approximately less than 24 months of age.
A 1-year-old sheep.