

American Sheep Industry Association Survey

Individual Sheep Production Information

Sheep Industry Expansion

Farm/Ranch Purchases

Livestock Protection

1/18/2010

In December 2009, the American Sheep Industry Association (ASI) membership was sent a survey as part of an ongoing national effort to assist the newly formed Re-building the Sheep Inventory Committee, which is working to strengthen U.S. sheep production, and to address questions regarding product purchases to entice more companies to support industry programs. In addition, the U.S. Department of Agriculture's Wildlife Services program was looking to gather information about predation and the use of livestock protection dogs.

The information in this document reflects the completed surveys that were received by the ASI office as of Jan. 11, 2010, which was the deadline. Of the 7,394 surveys that were mailed, 1,640 were entered into the survey program, which is a response rate of 22 percent. ASI thanks the membership for the strong participation in the survey.

This document does not include the answers to the open-ended questions, which will be analyzed at a later date. Rather the purpose of this document is to provide a general overview of the results.

Individual Sheep Production Information

1. Contact information:		
Answer Options	Response Percent	Response Count
Name:	99.8%	1606
Company:	56.1%	904
Address:	96.2%	1549
Address 2:	5.6%	90
City/Town:	97.8%	1574
State:	98.3%	1582
ZIP/Postal Code:	97.8%	1575
Email Address:	68.6%	1105
Phone Number:	87.5%	1408
<i>answered question</i>		1610
<i>skipped question</i>		21

2. What is your age?		
Answer Options	Response Percent	Response Count
20 years old or younger	1.1%	18
21-30 years old	2.2%	35
31-40 years old	5.4%	87
41-50 years old	20.0%	324
51-60 years old	32.3%	523
61-70 years old	26.4%	427
71-80 years old	10.3%	167
81 years old or older	2.4%	39
<i>answered question</i>		1620
<i>skipped question</i>		11

3. How many years experience do you have raising sheep?		
Answer Options	Response Percent	Response Count
1-9 years	11.4%	184
10-20 years	20.4%	328
21-30 years	19.1%	307
30 plus years	49.1%	790
<i>answered question</i>		1609
<i>skipped question</i>		22

4. What is the size of your flock (number of breeding stock)?		
Answer Options	Response Percent	Response Count
1-100	63.1%	999
101-500	24.4%	387
501-1000	5.2%	82
1001-5000	6.3%	99
5000 or more	1.0%	16
<i>answered question</i>		1583
<i>skipped question</i>		48

5. What type of producer would you be considered?		
Answer Options	Response Percent	Response Count
Commercial	62.8%	985
Seedstock	22.6%	354
Club lamb	10.3%	162
Lamb feeder	4.0%	63
Dairy	0.3%	5
If COMMERCIAL was selected, which type of lambs do you sell? (Answer: purebred or crossbred)		959
<i>answered question</i>		1569
<i>skipped question</i>		62

6. What is your typical percentage of lambs born per ewe exposed?		
Answer Options	Response Percent	
100 and below	14%	
101-120	5%	
121-140	10%	
141-160	21%	
161-180	25%	
181-200	21%	
201-220	1%	
221-240	2%	
241 and above	1%	
Total	100%	
<i>answered question</i>		1535
<i>skipped question</i>		96

7. What is your typical percentage of lambs weaned per ewe exposed?		
Categorized Answers		Response Percent
100 and below		20%
101-120		8%
121-140		16%
141-160	█	22%
161-180		20%
181-200		13%
201 and above		1%
Total		100%
<i>answered question</i>		1539
<i>skipped question</i>		92

8. What is the average weight per lamb weaned?		
Categorized Answers		Response Percent
20 lbs and less		2%
21-40 lbs		11%
41-60 lbs	█	29%
61-80 lbs		28%
81-100 lbs		21%
101-120 lbs		7%
120 lbs and above		2%
Total		100%
<i>answered question</i>		1478
<i>skipped question</i>		153

9. Do you place your own lambs on feed for slaughter?		
Answer Options	Response Percent	Response Count
Yes	55.7%	865
No	44.3%	687
<i>answered question</i>		1552
<i>skipped question</i>		79

10. What is your average annual ewe replacement rate (purchased and retained)? (percentage of ewe-flock base)	
Categorized Answers	Response Percent
10% and below	39%
11-20%	44%
21-40%	13%
41-60%	1%
61-80%	1%
81-100%	2%
Total	100%
<i>answered question</i>	
1498	
<i>skipped question</i>	
133	

11. What is the principle breed of your flock?	
Categorized Answers	Response Percent
Columbia	6%
Dorper	3%
Dorset	9%
Hampshire	6%
Katahdin	4%
Polypay	6%
Rambouillet	11%
Suffolk	19%
Targhee	7%
Misc.	29%
Total	100%
<i>answered question</i>	
1555	
<i>skipped question</i>	
76	

12. Do you have a veterinarian that you use for your sheep operation?		
Answer Options	Response Percent	Response Count
Yes	71.2%	1125
No	28.8%	456
<i>answered question</i>		1581
<i>skipped question</i>		50

13. What is your source for lamb/wool market information? (check all that apply)		
Answer Options	Response Percent	Response Count
Local sale coverage	68.3%	1060
DTN	4.1%	63
USDA reports	45.6%	708
Other (please specify)	32.7%	508
<i>answered question</i>		1553
<i>skipped question</i>		78

14. What is your source for sheep industry information? (check all that apply)		
Answer Options	Response Percent	Response Count
State newsletter	55.1%	865
Sheep Industry News	79.5%	1248
ASI Weekly newsletter	55.5%	872
Other sheep-specific communications (please specify)	38.5%	605
<i>answered question</i>		1570
<i>skipped question</i>		61

15. What is your source for production information, such as management or disease control questions? (check all that apply)		
Answer Options	Response Percent	Response Count
Other producers	70.9%	1123
Sheep Production Handbook	45.8%	725
Extension agent	30.5%	483
Consultant	6.1%	96
Veterinarian	63.2%	1001
Other (please specify)	27.5%	435
<i>answered question</i>		1583
<i>skipped question</i>		48

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16. How frequently do you watch RFD-TV?		
Answer Options	Response Percent	Response Count
Never	53.0%	830
Every couple of months	12.8%	200
At least once a month	6.6%	103
Two to three times a month	6.9%	108
At least once a week	13.0%	203
Daily	7.8%	123
	<i>answered question</i>	1567
	<i>skipped question</i>	64

Sheep Industry Expansion

1. What percentage of your total agriculture operation revenue is from your sheep?	
Categorized Answers	Response Percent
1-20%	29%
21-40%	14%
41-60%	14%
61-80%	12%
81-100%	31%
Total	100%
<i>answered question</i>	
1468	
<i>skipped question</i>	
163	

2. Are family members a part of the sheep operation?		
Answer Options	Response Percent	Response Count
Yes	74.9%	1128
No	25.1%	378
<i>answered question</i>		1506
<i>skipped question</i>		125

3. Do family members plan to take over the sheep operation when you retire?		
Answer Options	Response Percent	Response Count
Yes	35.4%	506
No	64.6%	925
<i>answered question</i>		1431
<i>skipped question</i>		200

4. What percentage of each type of lamb below do you SELL? (answers must equal 100%, do not include percent sign in answer)			
Answer Options	Response Average	Response Total	Response Count
Feeder lambs	53.52	54,425	1017
Slaughter lambs	54.09	66,860	1236
Breeding lambs	26.24	26,815	1022
<i>answered question</i>			1481
<i>skipped question</i>			150

5. ONLY if you sell slaughter lambs, how are they sold? (check all that apply)

Answer Options	Response Percent	Response Count
Livestock auction	52.8%	632
Dealer	17.4%	209
Live to consumer	42.3%	507
Meat to consumer	29.3%	351
Pool or cooperative	11.3%	135
Direct to packer	14.5%	174
Other (please specify)	4.9%	59
<i>answered question</i>		1198
<i>skipped question</i>		433

6. Do you purchase feeder lambs?

Answer Options	Response Percent	Response Count
Yes	9.5%	143
No	90.5%	1358
<i>answered question</i>		1501
<i>skipped question</i>		130

7. Do you routinely sell breeding stock?

Answer Options	Response Percent	Response Count
Yes	46.3%	697
No	53.7%	810
<i>answered question</i>		1507
<i>skipped question</i>		124

8. Do you purchase replacement ewes?

Answer Options	Response Percent	Response Count
Yes	38.1%	571
No	61.9%	928
<i>answered question</i>		1499
<i>skipped question</i>		132

9. Where do you purchase your rams? (check all that apply)

Answer Options	Response Percent	Response Count
Private treaty	86.0%	1277
Organized ram sales	37.2%	553
Other (please specify)	11.6%	172
<i>answered question</i>		1485
<i>skipped question</i>		146

10. How do you sell your wool? (check all that apply)

Answer Options	Response Percent	Response Count
Warehouse	25.5%	361
Woolpool	28.1%	398
Direct to buyer	35.1%	496
Direct to processor	5.8%	82
Other (please specify)	20.1%	284
<i>answered question</i>		1414
<i>skipped question</i>		217

11. Do you participate in the Wool Loan Deficiency Payment Program (LDP)?

Answer Options	Response Percent	Response Count
Yes	51.4%	774
No	48.6%	732
<i>answered question</i>		1506
<i>skipped question</i>		125

12. Do you plan to participate in the Livestock Risk Protection Insurance for Lamb (LRP-Lamb) in the next year?

Answer Options	Response Percent	Response Count
Yes	10.9%	161
No	89.1%	1312
<i>answered question</i>		1473
<i>skipped question</i>		158

13. Are sheep an important enough part of your operation to borrow money for feed, grazing or facilities?		
Answer Options	Response Percent	Response Count
Yes	45.0%	675
No	55.0%	824
<i>answered question</i>		1499
<i>skipped question</i>		132

14. Are introduced species (wolves, bighorn sheep) or endangered species regulations impacting your operation?		
Answer Options	Response Percent	Response Count
Yes	17.2%	258
No	82.8%	1245
If YES, which introduced/endangered species regulation is impacting your sheep operation?		215
<i>answered question</i>		1503
<i>skipped question</i>		128

15. Which type(s) of predator management practices do you currently use? (check all that apply)		
Answer Options	Response Percent	Response Count
Hunting/trapping, snaring	44.8%	675
Guardian dogs	33.3%	501
Guardian animals (other than dogs)	27.6%	415
Fencing pastures	69.1%	1040
Night penning or confinement	41.6%	627
Other (please specify)	8.8%	132
<i>answered question</i>		1506
<i>skipped question</i>		125

16. Does USDA/Wildlife Services help provide protection for your livestock?		
Answer Options	Response Percent	Response Count
Yes	27.5%	416
No	72.5%	1094
If YES, which option helps provide livestock protection? (Answer: state government, county government, special district such as a predator district or other, please specify other)		284
<i>answered question</i>		1510
<i>skipped question</i>		121

17. Is revenue from hunting/recreation a significant part of your operation?		
Answer Options	Response Percent	Response Count
Yes	8.2%	124
No	91.8%	1381
<i>answered question</i>		1505
<i>skipped question</i>		126

18. Does your operation include any of the following? (check all that apply)		
Answer Options	Response Percent	Response Count
Paid grazing with sheep for weed control	8.8%	50
Federal land lease	18.7%	107
State land lease	18.9%	108
Private land lease	70.4%	402
Use of distiller grains from ethanol production	21.9%	125
<i>answered question</i>		571
<i>skipped question</i>		1060

19. Which category describes your sheep operation today?		
Answer Options	Response Percent	Response Count
Expanding sheep numbers	23.6%	357
Cutting back sheep numbers	15.4%	233
Maintaining current sheep numbers	61.0%	924
If CUTTING BACK or MAINTAINING numbers, would you like to expand sheep numbers in your operation? (Answer: yes or no)		777
<i>answered question</i>		1514
<i>skipped question</i>		117

20. What would make it possible to expand your sheep operation? (check all that apply)

Answer Options	Response Percent	Response Count
Availability of feed and forage	45.5%	644
Ability to finance or lease land or livestock	20.0%	283
Availability of labor	30.6%	433
Availability of shearers	11.8%	167
Increased revenue	51.1%	724
More predator management	21.7%	307
Forward contracts to market your lambs or wool	16.0%	227
Other (please specify)	18.0%	255
<i>answered question</i>		1416
<i>skipped question</i>		215

21. Rank in order of importance all the new technologies you have adopted to improve production efficiency. Identify only those you have used in a significant way. (1=most important to 7=least important, only one check per column)

Answer Options	1	2	3	4	5	6	7	Rating Average	Response Count
Predator control	357	92	93	82	94	111	438	4.22	1267
Nutrition management	198	265	204	177	171	157	75	3.50	1247
Grazing, pasture management	221	240	222	191	171	184	62	3.50	1291
Flock management	130	220	274	266	185	104	64	3.58	1243
Breeding and selection	295	271	246	206	167	94	33	3.07	1312
Record-keeping	93	147	169	173	201	283	186	4.47	1252
Reproductive management	120	146	149	167	209	204	213	4.38	1208
Other effective technology (please specify)									1208
<i>answered question</i>									1476
<i>skipped question</i>									155

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22. Rank in order of importance the following items you feel will help you improve profitability in your sheep operation. If one or more will not be important, leave them blank. (1=most important to 13=least important, only one check per column)

Answer Options	1	2	3	4	5	6	7	8	9	10	11	12	13	Rating Average	Response Count
Improve production efficiency	418	155	115	110	71	57	59	38	22	25	20	19	28	3.68	1137
More competitive market outlets	197	266	134	101	87	61	61	51	30	33	21	28	20	4.22	1090
Information on production decisions	13	65	97	90	110	97	87	80	85	66	49	33	27	6.55	899
Information on marketing decisions	21	52	106	126	105	123	92	67	75	68	47	31	13	6.27	926
Form producer cooperatives at local level	20	49	75	64	84	77	84	67	81	59	75	50	64	7.28	849
Direct-to-consumer marketing	149	134	119	101	103	71	53	62	39	43	54	41	26	5.22	995
Price-risk protection via LRP-Lamb	17	22	21	22	46	49	56	41	58	97	103	109	83	8.93	724
Decrease predation	168	96	92	65	47	56	53	66	46	59	68	65	93	6.27	974
Price/market-risk protection via forward contracts	17	25	41	41	47	49	49	57	82	84	83	100	68	8.42	743
Improved consumer level demand for wool	60	144	155	118	91	78	73	61	60	63	41	51	65	5.93	1060
Information on ethnic lamb markets	29	73	107	101	100	79	80	71	69	41	53	42	67	6.57	912
Collective or group actions by producers	15	49	46	84	70	90	88	89	74	62	51	62	52	7.30	832
Improved consumer level demand for lamb	240	212	187	158	108	80	56	45	29	30	16	18	34	4.14	1213
Other item to improve profitability (please specify)															73
<i>answered question</i>															1448
<i>skipped question</i>															183

23. Is financing the primary constraint when you consider expanding your sheep operation?

Answer Options	Response Percent	Response Count
Yes	19.0%	286
No	81.0%	1221
<i>answered question</i>		1507
<i>skipped question</i>		124

24. ONLY if you answered NO to Question 23, which one of the following is the primary restraint?

Answer Options	Response Percent	Response Count
Labor costs/availability	13.3%	160
No available land to buy or lease	16.9%	203
No one to take over when I retire	15.9%	192
Don't have economic size unit	8.7%	105
Now part-time or working off farm	22.8%	275
Concerned about long-term outlook of the industry	8.6%	104
Other (please specify)	13.7%	165
<i>answered question</i>		1204
<i>skipped question</i>		427

25. If you are to consider expanding your sheep enterprise, rate the following items you feel would compete for your time, resources and money.

Answer Options	Competitive	Doesn't matter much	Not competitive	Rating Average	Response Count
Livestock other than sheep	411	345	464	2.04	1220
Crops	299	338	517	2.19	1154
Another job	621	165	387	1.80	1173
Other competition (please specify)					105
<i>answered question</i>					1299
<i>skipped question</i>					332

Farm/Ranch Purchases

1. Are you more likely to buy from a company that supports ASI through advertising, trade shows or sponsorships versus a company that does not do these activities?

Answer Options	Response Percent	Response Count
Yes	69.6%	993
No	30.4%	434
<i>answered question</i>		1427
<i>skipped question</i>		204

2. Are you considering purchasing each item within the next two years?

Answer Options	Yes	No	Don't know	Response Count
Pickup truck	494	769	193	1456
ATV/motorcycle	231	1064	137	1432
Livestock trailer	268	1005	153	1426
Tractor	290	987	154	1431
Hay baling equipment	179	1079	153	1411
Swather/mowing equipment	143	1140	129	1412
Skid steer loader	116	1167	131	1414
Wheel loader/pay loader	16	1329	61	1406
Gator/utility vehicle	147	1118	147	1412
Chainsaw	234	1020	160	1414
Eartags	1257	182	37	1476
Fencing supplies	1290	127	60	1477
Livestock handling equipment	725	522	186	1433
Livestock watering tanks or trough	727	555	166	1448
Steel farm building	191	1046	177	1414
Chute	177	1080	147	1404
Scale	200	1067	140	1407
Shearing supplies	638	712	71	1421
Marking supplies	906	459	69	1434
Firearm	362	874	181	1417
Milking equipment	29	1299	70	1398
<i>answered question</i>				1499
<i>skipped question</i>				132

3. ONLY if you checked YES to purchasing a PICKUP TRUCK in Question 2, what size of truck do you plan to purchase?

Answer Options	Response Percent	Response Count
½ ton	20.4%	112
¾ ton	45.3%	248
1 ton	24.1%	132
1 ½ ton	2.4%	13
2 ton	0.9%	5
Don't know	5.7%	31
Other (please specify)	1.3%	7
<i>answered question</i>		548
<i>skipped question</i>		1083

4. ONLY if you checked YES to purchasing a TRACTOR in Question 2, what horsepower of tractor do you plan to purchase?

Answer Options	Response Percent	Response Count
50 to under 100	50.6%	159
100 to under 150	25.2%	79
150 to under 200	10.2%	32
200 to under 300	5.1%	16
300 or more	0.6%	2
Don't know	8.3%	26
<i>answered question</i>		314
<i>skipped question</i>		1317

5. ONLY if you checked YES to purchasing HAY BALING EQUIPMENT in Question 2, what type of hay baling equipment do you plan to purchase?

Answer Options	Response Percent	Response Count
Big square	7.3%	17
Little square	40.9%	95
Loaf	1.3%	3
Round baler	39.2%	91
Don't know	6.9%	16
Other (please specify)	4.3%	10
<i>answered question</i>		232
<i>skipped question</i>		1399

6. Do you purchase mineral or feed supplements for your sheep?		
Answer Options	Response Percent	Response Count
Yes	98.2%	1458
No	1.8%	26
<i>answered question</i>		1484
<i>skipped question</i>		147

7. Do you purchase any of the following on an annual basis for your sheep operation?			
Answer Options	Yes	No	Response Count
Sheep creep feed	992	379	1371
Sheep range cubes	228	956	1184
Hay	929	444	1373
<i>answered question</i>			1482
<i>skipped question</i>			149

8. Do you purchase milk replacer for your lambs?		
Answer Options	Response Percent	Response Count
Yes	82.3%	1215
No	17.7%	262
<i>answered question</i>		1477
<i>skipped question</i>		154

9. Do you purchase food for the following animals?			
Answer Options	Yes	No	Response Count
Dogs	1190	281	1471
Llamas	188	1080	1268
Donkeys	114	1138	1252
If YES to any options above, how many pounds do you purchase annually for each kind of animal?			841
<i>answered question</i>			1488
<i>skipped question</i>			143

10. Do you deworm your sheep at least once a year?		
Answer Options	Response Percent	Response Count
Yes	93.1%	1373
No	6.9%	102
If YES, how often do you deworm your sheep? (Answer: quarterly, bi-annually, annually or when needed according to fecal egg count or FAMACHA scores "smart drenching")		980
<i>answered question</i>		1475
<i>skipped question</i>		156

11. Do you vaccinate for the following?			
Answer Options	Yes	No	Response Count
Foot rot	153	1245	1398
Caseous lymphadenitis	142	1234	1376
Sore mouth	365	1042	1407
Bluetongue	82	1278	1360
Enterotoxemia (over-eating disease)	1251	221	1472
Chlamydia	344	1039	1383
Tetanus	1164	296	1460
Other abortive disease(s) you vaccinate for (please specify)			120
<i>answered question</i>			1496
<i>skipped question</i>			135

12. Do you treat for the following?			
Answer Options	Yes	No	Response Count
Foot rot or foot scald	581	862	1443
Keds	342	1001	1343
Other disease(s) you treat for (please specify)			77
<i>answered question</i>			1471
<i>skipped question</i>			160

13. Do you trim hooves regularly?		
Answer Options	Response Percent	Response Count
Yes	62.8%	937
No	37.2%	555
<i>answered question</i>		1492
<i>skipped question</i>		139

14. Do you have or think you have OPPV in your flock?		
Answer Options	Response Percent	Response Count
Yes	6.8%	100
No	93.2%	1371
If YES, do you have a strategy for reducing the incidence? (Answer: yes or no)		80
<i>answered question</i>		1471
<i>skipped question</i>		160

15. Do you have caseous lymphadenitis in your flock?		
Answer Options	Response Percent	Response Count
Yes	11.7%	171
No	88.3%	1295
<i>answered question</i>		1466
<i>skipped question</i>		165

16. Do you observe coccidiosis in your flock?		
Answer Options	Response Percent	Response Count
Yes	32.9%	486
No	67.1%	992
If YES, do you have prevention/treatment programs in place? (Answer: yes or no)		350
<i>answered question</i>		1478
<i>skipped question</i>		153

17. Do you routinely purchase tobacco products?		
Answer Options	Response Percent	Response Count
Yes	12.3%	183
No	87.7%	1306
<i>answered question</i>		1489
<i>skipped question</i>		142

18. Do you routinely purchase ammunition for firearms?		
Answer Options	Response Percent	Response Count
Yes	54.6%	813
No	45.4%	677
<i>answered question</i>		1490
<i>skipped question</i>		141

19. Do you own a personal computer?		
Answer Options	Response Percent	Response Count
Yes	87.9%	1305
No	12.1%	180
<i>answered question</i>		1485
<i>skipped question</i>		146

20. Do you currently have Internet access?		
Answer Options	Response Percent	Response Count
Yes	86.6%	1295
No	13.4%	201
If YES, what type of Internet service do you have? (Answer: dial-up, satellite, DSL, cable)		952
<i>answered question</i>		1496
<i>skipped question</i>		135

Livestock Protection

1. Please fill in your zip code.

Answer Options	Response Percent	Response Count
ZIP/Postal Code:	100.0%	1452
<i>answered question</i>		1452
<i>skipped question</i>		179

2. Over the past year, how many of each of the animals listed were present in your operation?

Answer Options	Response Average	Response Total	Response Count
Ewes	376.54	540,328	1435
Lambs	777.73	1,098,152	1412
Rams	14.48	20,441	1412
<i>answered question</i>			1448
<i>skipped question</i>			183

3. Has your operation been impacted from predation on the animals listed in Question 2?

Answer Options	Response Percent	Response Count
Yes	38.4%	555
No	61.6%	889
If NO, prior to this past year, has your operation experienced predation? (Answer: yes or no)		602
<i>answered question</i>		1444
<i>skipped question</i>		187

4. Identify how frequently you observe the species of potential predators below at your operation.

Answer Options	Frequently	Somewhat frequently	Rarely	Never	Rating Average	Response Count
Mountain lion	31	74	254	1007	3.64	1366
Coyote	678	377	281	109	1.88	1445
Bobcat	102	158	288	827	3.34	1375
Bear	35	87	206	1031	3.64	1359
Wolf	20	42	121	1160	3.80	1343
Domestic dog	376	474	436	123	2.22	1409
Other frequent potential predator(s) (please specify)						212
<i>answered question</i>						1459
<i>skipped question</i>						172

5. Over the past year, how many animals have been VERIFIED lost to predation?

Answer Options	Response Average	Response Total	Response Count
Ewes	8.57	8,690	1014
Lambs	17.12	18,424	1076
Rams	3.40	3,061	900
<i>answered question</i>			1118
<i>skipped question</i>			513

6. If different than Question 5, over the past year, how many animals do you BELIEVE have been lost to predation?

Answer Options	Response Average	Response Total	Response Count
Ewes	9.34	3,727	399
Lambs	32.29	14,402	446
Rams	.57	205	360
<i>answered question</i>			460
<i>skipped question</i>			1171

7. What were your total estimated sheep losses to predation over the past year in dollars? (Do not use dollar sign or comma.)

Categorized Answers	Response Count	
0-1000	73%	
1001-5000	18%	
5001-10,000	4%	
10,001-20,000	3%	
20,001-50,000	1%	
50,001 and above	1%	
Total	100%	
<i>answered question</i>		1040
<i>skipped question</i>		591

8. Indicate the degree of effectiveness of each measure below to prevent predation on your sheep.

Answer Options	Very effective	Somewhat effective	Not effective	N/A	Rating Average	Response Count
Shed lambing	833	181	33	275	1.24	1322
Fencing	613	482	166	92	1.65	1353
Trapping/capture devices	224	366	103	580	1.83	1273
Livestock protection dogs	384	189	40	663	1.44	1276
Call/shoot	249	407	97	527	1.80	1280
Other effective measure(s) to control predation (please specify)						222
<i>answered question</i>						1409
<i>skipped question</i>						222

9. Provide the total investment to implement any of the methods below you have used to protect your sheep from predation. (Do not include dollar signs or commas to answers.)

Answer Options	Response Total	Response Count
Shed lambing	12,402,184	645
Fencing	35,398,585	861
Trapping/capture devices	871,339	469
Livestock protection dogs	140,679,599	569
Call/shoot	350,374	460
Other method of controlling predation	1,167,443	356
<i>answered question</i>		1074
<i>skipped question</i>		557

10. How many LPD puppies have you purchased over the past year for use on your sheep operation per specific breed?

Answer Options	Response Percent	Response Count
Akbash	41.5%	132
Great pyrenees	73.9%	235
Komondor	31.8%	101
Anatolians	39.6%	126
Maremmas	37.1%	118
Other	38.7%	123
Other	26.1%	83
<i>answered question</i>		318
<i>skipped question</i>		1313

11. What was the purchase price of each LPD puppy(s) that you purchased over the past year per specific breed for use on your sheep operation? (Do not include dollar signs or commas.) (Average of those who recorded a dollar amount)

Answer Options	Response Average
Akbash	\$414
Great pyrenees	\$320
Komondor	\$250
Anatolians	\$316
Maremmas	\$469
Other	\$358
<i>answered question</i>	
285	
<i>skipped question</i>	
1346	

12. Provide the average first-year expenditures (ie. shipping, feed, health care, any damages caused by dog, etc.) for each LPD puppy(s) that you purchased over the past year for use on your sheep operation per specific breed. (Do not include dollar signs or commas.) (Average of those who recorded a dollar amount)

Answer Options	Response Average
Akbash	\$663
Great pyrenees	\$520
Komondor	\$50
Anatolians	\$609
Maremmas	\$659
Other	\$457
<i>answered question</i>	
263	
<i>skipped question</i>	
1368	

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13. Select how many LPD ADULTS have been actively working on your sheep operation over the past year by breed and by age group (in years)?

1-3 yrs																						
Answer Options	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Greater than 20	Response Count
Akbash	22	10	10	1	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	50
Great pyrenees	82	48	13	5	3	1	0	0	0	3	0	1	0	0	1	0	0	0	1	0	0	158
Komondor	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Anatolians	21	7	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Maremmas	14	4	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Other	22	10	1	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Other	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
4-6 yrs																						
Answer Options	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Greater than 20	Response Count
Akbash	18	10	7	1	2	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	42
Great pyrenees	73	24	10	6	2	2	1	1	0	1	0	1	0	0	2	0	1	0	0	1	0	125
Komondor	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Anatolians	13	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Maremmas	16	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Other	6	7	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Other	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7-9 yrs																						
Answer Options	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Greater than 20	Response Count
Akbash	11	5	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Great pyrenees	39	13	4	2	2	0	1	0	3	2	1	0	0	0	0	0	0	0	0	0	0	67
Komondor	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Anatolians	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Maremmas	9	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Other	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Other	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
9 yrs and older																						
Answer Options	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Greater than 20	Response Count
Akbash	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Great pyrenees	21	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	26
Komondor	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Anatolians	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Maremmas	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Other	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Other	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
																					Question Totals	
																					<i>answered question</i>	377
																					<i>skipped question</i>	1254

14. What is the average monthly cost of care (in dollars) for the active LPD adults that have been utilized on your sheep operation over the past year? (Do not include dollar signs or commas.) (Average of those who recorded a dollar amount)

Answer Options	Response Average
Akbash	\$110
Great pyrenees	\$114
Komondor	\$79
Anatolians	\$82
Maremmas	\$242
Other	\$160
<i>answered question</i>	
390	
<i>skipped question</i>	
1241	

15. Did one of your actively working adult LPDs suffer an injury or death caused by predators in the past year?

Answer Options	Response Percent	Response Count
Yes	5.8%	27
No	94.2%	439
<i>answered question</i>		466
<i>skipped question</i>		1165

16. If YES to Question 15, please provide the number of LPDs INJURED.

Answer Options	Response Total	Response Count
Akbash	8	6
Great pyrenees	26	13
Komondor	1	2
Anatolians	4	5
Maremmas	0	1
Other	0	1
Other	3	2
<i>answered question</i>		20
<i>skipped question</i>		1611

17. If YES to Question 15, please provide the number of LPDs KILLED.

Answer Options	Response Total	Response Count
Akbash	1	3
Great pyrenees	17	9
Komondor	0	2
Anatolians	2	4
Maremmas	0	1
Other	0	2
Other	0	1
<i>answered question</i>		12
<i>skipped question</i>		1619

18. On average, how much time did you spend each week providing care for your LPDs? (hrs per week)

Categorized Answers	Response Percent	
0-2 hours	61%	
3-5 hours	21%	
5-7 hours	8%	
8 or more	10%	
Total	100%	
<i>answered question</i>		392
<i>skipped question</i>		1239

19. What is the estimated change in the level of predation at your operation since employing LPDs? (percentage)

Answer Options	Response Average	Response Total	Response Count
Increased	41.85	2,762	66
Decreased	69.45	20,487	295
<i>answered question</i>			321
<i>skipped question</i>			1310

20. In the last year, on average, employing LPDs saved how many head of each?

Answer Options	Response Average	Response Total	Response Count
Ewes	40.82	9,837	241
Lambs	64.22	17,017	265
Rams	6.96	1,191	171
<i>answered question</i>			277
<i>skipped question</i>			1354

21. Would you recommend employing LPDs to other producers as a predation deterrent?

Answer Options	Response Percent	Response Count
Yes	95.2%	434
No	4.8%	22
<i>answered question</i>		456
<i>skipped question</i>		1175

22. Have you had any negative experiences with employing LPDs? If yes, please describe:

Answer Options	Response Count	
	254	
<i>answered question</i>		254
<i>skipped question</i>		1377

23. Your assistance in compiling information to address more in depth questions involving livestock predation, and the benefits and challenges of using Livestock Protection Dogs, is needed. If you would be willing to help by telling us about your personal experiences, please provide your name and contact information below. This information will be kept confidential, and will only be used to contact you for a future study. Your participation is voluntary and is greatly appreciated!

Answer Options	Response Percent	Response Count
Name:	99.5%	368
Email Address:	81.4%	301
Phone Number:	93.5%	346
<i>answered question</i>		370
<i>skipped question</i>		1261