***Evaluation – full report***

*Three Internet-based meetings followed by a field day were organized for farmers and veterinarians to discuss and demonstrate parasite biology, managing drug resistant worms, and various grazing strategies including use of chicory and other plants to help control worms. Information about attending the meetings and field day was made available through many local and national venues. The Ohio Veterinary Medical Licensing Board gave approval for continuing education credit for Ohio veterinarians. The Internet-based meetings were held at a physical location with a live audience with additional sites available throughout Ohio where people could participate live via the Internet. Participants could also access these live meetings from home with a high-speed Internet connection. In addition, recordings were posted (and remain archived) on the Internet following each of the live presentations. Recordings were not created for any of the field day activities.*

*A total of 89 people completed the online registration process for the Internet-based meetings and approximately 28 people registered at one of the live sites. Eighty-four people attended the field day and registered at the site. An evaluation mailing list was created by merging the online list and the on-site attendees with the field day attendees and deleting the duplications. A questionnaire asking for evaluation of the programming effort was mailed to 138 individuals. They were instructed not to identify themselves for the survey and were given a self-addressed envelope to return the survey. Fifty-one questionnaires were returned in which 50 were considered usable for a response rate of 50/138=36.2%.*

*The results of the evaluation are presented below as frequencies and percentages as well as means, medians, standard deviations, and ranges when appropriate. Sections where multiple responses apply should be interpreted as a percentage of all respondents. Sections using a Likert-type scale should be interpreted as a percentage of those who responded to that specific item. Missing data were omitted from these calculations because some items where not applicable to certain participants.*

*Registrants from 14 different states participated in at least part of the programming. The majority were from Ohio (85.5%) followed by Pennsylvania (2.9%), Florida (2.2%), and Michigan (2.2%). The remaining states represented < 1% of the total participants and included: Colorado, Georgia, Iowa, Illinois, Indiana, Louisiana, South Dakota, Utah, Wisconsin, and West Virginia. Fourteen of the registrants indicated that they were veterinarians.*

**Section I: Background Information** *(please check all apply)*

1. Sessions in which you participated (live or recorded):   
   **28 (56.0%)** □ Basic Parasite Biology (live session held on August 4, 2011)   
   **30 (60.0%)** □ Management Strategies (live session held on August 18, 2011)  
   **28 (56.0%)** □ Management Tools and Techniques (live session held on August 25, 2011)  
   **31 (62.0%)** □ Field Day (August 27, 2011)
2. For the Internet-based meetings, you:   
   **10 (20.0%)** □ Attended meeting in person at one of the sites  
   **28 (56.0%)** □ Attended live session via the Internet  
   **11 (22.0%)** □ Listened & viewed the recordings via the Internet after the live presentation  
   **12 (24.0%)** □ None of the above
3. Profession:   
   **45 (90.0%)** □ Farmer/Producer   
   **4 (8.0%)** □ Veterinarian   
   **1 (2.0%)** □ Other, please specify: **Student**
4. Species (of primary interest/concern with regards to this topic):

**41 (82.0%)** □ Sheep:   
# of head\_\_\_\_\_\_  **mean=96.0; median=60.0; SD=118.5; range 3-500**   
# of years raising sheep\_\_\_\_\_\_ **mean=16.6; median=15.0; SD=13.1; range 1-40**

**21 (42.0%)** □ Goats:   
# of head\_\_\_\_\_\_  **mean=13.7; median=7.0; SD=15.3; range 2-50**   
# of years raising goats\_\_\_\_\_\_  **mean =4.5; median=2.0; SD=6.2; range 1-23**

**2 (4.0%)** □ Other, please specify: \_\_\_\_\_\_ **llama**  
# of head\_\_\_\_\_\_  **mean=1.0**  
# of years \_\_\_\_\_\_ **mean=6.5**

1. Amount of pasture used for your small ruminant species (acres):   
   **mean=36.3; median=20.0; SD=44.5; range 1-210**
2. Marketing channels (check all that apply):   
   **20 (40.0%)** □ Purebred   
   **25 (50.0%)** □ Feeder lambs/goats   
   **26 (52.0%)** □ Finished lambs/goats   
   **7 (14.0%)** □ Roasters
3. Age:   
   **5 (10.0%)** □ under 18   
   **2 (4.0%)** □ 18 to 25   
   **7 (14.0%)** □ 26 to 45   
   **30 (60.0%)** □ 46 to 65   
   **4 (8.0%)** □ over 65

**2 (4.0%) did not answer**

1. Highest level of education completed:   
   **8 (16.0%)** □ Elementary   
   **0 (0%)** □ GED   
   **9 (18.0%)** □ High School   
   **4 (8.0%)** □ Associate’s   
   **11 (22.0%)** □ Bachelor’s   
   **8 (16.0%)** □ Master’s   
   **4 (8.0%)** □ DVM   
   **5 (10.0%)**  □ PhD   
   **0 (0%)** □ Other\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
   **1 (2.0%) did not answer**
2. Value of your small ruminant enterprise relative to your total family income:  
   **4 (8.0%)** □ Very Unimportant   
   **21 (42.0%)** □ Of Little Importance   
   **12 (24.0%)** □ Important   
   **9 (18.0%)** □ Very Important

**4 (8.0%) did not answer**

1. If you are a veterinarian, what proportion of your practice is related to small ruminants?   
   **mean=2.0; med=1.0; SD=2.8; (responses - 2%, 6%, 0%, 0%) Section II: Program Format** *(please mark the appropriate boxes with an “X” or “✓”)*

Do you own a personal computer? **39 (78.0%)** □ Yes **11 (22.0%)** □ No

Do you have Internet access? **41 (82.0%)** □ Yes **9 (18.0%)** □ No

-**If yes**, do you have high speed (broadband)? **33 (80.5%)** □ Yes **8 (19.5%)** □ No

-**If no**, do you use the Internet elsewhere? **1 (12.5%)** □ Yes **7 (77.8%)** □ No

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **The programming format:** | **Strongly**  **Disagree** | **Disagree** | **Agree** | **Strongly**  **Agree** | **Did not answer** |
| 1. Addressing this topic with a series of Internet-based meetings followed by a field day was a good educational approach. | **0**  **(0.0)** | **3**  **(6.1)** | **14**  **(28.6)** | **32**  **(65.3)** | **1** |
| 1. I like to use the Internet to receive educational information and eliminate the time and resources needed to attend at a centralized physical location. | **3**  **(6.5)** | **7**  **(15.2)** | **19**  **(41.3)** | **17**  **(37.0)** | **4** |
| 1. I like the ability to access the recorded sessions of the meetings online at my convenience. | **3**  **(6.5)** | **4**  **(8.7)** | **14**  **(30.4)** | **25**  **(54.3)** | **4** |
| 1. I plan to access the recorded sessions for review of specific concepts/information. | **3**  **(6.7)** | **9**  **(20.0)** | **16**  **(35.6)** | **17**  **(37.8)** | **5** |
| 1. I prefer face-to-face meetings to receive educational programming. | **0**  **(0.0)** | **12**  **(28.6)** | **16**  **(38.1)** | **14**  **(33.3)** | **8** |
| 1. I like opportunities for personal interaction with research participants in a field day setting. | **0**  **(0.0)** | **2**  **(4.4)** | **16**  **(35.6)** | **27**  **(60.0)** | **5** |
| 1. I like opportunities to see on-farm applications first-hand in a field day setting. | **0**  **(0.0)** | **1**  **(2.1)** | **14**  **(29.2)** | **33**  **(68.8)** | **2** |

**Section III: Program Satisfaction** *(please mark the appropriate boxes with an “X” or “✓”)*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Quality of the programming:** | **No, definitely not** | **No, not really** | **Yes, I think so** | **Yes, definitely** | **Did not answer** |
| 1. Were you satisfied with the depth (or level) of information? | **0**  **(0.0)** | **2**  **(4.1)** | **17**  **(34.7)** | **30**  **(61.2)** | **1** |
| 1. I would like to have received more in-depth information about controlling internal parasites. | **0**  **(0.0)** | **22**  **(48.9)** | **13**  **(28.9)** | **10**  **(22.2)** | **5** |
| 1. I am new to this and the information presented was too advanced for me. | **20**  **(42.6)** | **22**  **(46.8)** | **2**  **(4.3)** | **3**  **(6.4)** | **3** |
| 1. Were you satisfied with the speakers/presenters and their knowledge and experience with this topic? | **0**  **(0.0)** | **0**  **(0.0)** | **13**  **(26.5)** | **36**  **(73.5)** | **1** |
| 1. Do you believe that the program will help you to better control internal parasites in your animals? | **0**  **(0.0)** | **2**  **(4.3)** | **16**  **(34.0)** | **29**  **(61.7)** | **3** |
| 1. I would recommend the recorded meeting sessions to others as a useful resource in developing their parasite control strategy. | **0**  **(0.0)** | **3**  **(6.7)** | **16**  **(35.6)** | **26**  **(57.8)** | **5** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **The educational materials and content:** | **Strongly**  **Disagree** | **Disagree** | **Agree** | **Strongly**  **Agree** | **Did not answer** |
| 1. Helped me better understand the complexity of controlling internal parasites. | **0**  **(0.0)** | **0**  **(0.0)** | **27**  **(55.1)** | **22**  **(44.9)** | **1** |
| 1. Provided information relevant to my work/farm. | **0**  **(0.0)** | **2**  **(4.2)** | **27**  **(56.3)** | **19**  **(39.6)** | **2** |
| 1. Were based on current, up-to-date information. | **0**  **(0.0)** | **0**  **(0.0)** | **23**  **(47.9)** | **25**  **(52.1)** | **2** |
| 1. Addressed the topic identified in the title of the program. | **0**  **(0.0)** | **0**  **(0.0)** | **22**  **(44.9)** | **27**  **(55.1)** | **1** |
| 1. Were well organized. | **0**  **(0.0)** | **0**  **(0.0)** | **18**  **(36.7)** | **31**  **(63.3)** | **1** |
| 1. Were easy to understand. | **0**  **(0.0)** | **0**  **(0.0)** | **23**  **(46.9)** | **26**  **(53.1)** | **1** |
| 1. Will be of great immediate use to me. | **1**  **(2.1)** | **4**  **(6.3)** | **24**  **(49.0)** | **20**  **(40.8)** | **1** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **The facilities (field day only) :** | **Poor** | **Fair** | **Good** | **Excellent** | **Did not attend** | **Did not answer** |
| 1. Were appropriate for this topic. | **0**  **(0.0)** | **0**  **(0.0)** | **3**  **(9.4)** | **29**  **(90.6)** | **9** | **9** |
| 1. Provided an adequate example of a working sheep farm. | **0**  **(0.0)** | **0**  **(0.0)** | **5**  **(15.6)** | **27**  **(84.4)** | **9** | **9** |
| 1. Provided a safe and comfortable learning environment. | **0**  **(0.0)** | **0**  **(0.0)** | **5**  **(15.6)** | **27**  **(84.4)** | **9** | **9** |
| 1. Provided adequate food, beverages, restrooms, and seating. | **0**  **(0.0)** | **1**  **(3.1)** | **5**  **(15.6)** | **26**  **(81.3)** | **9** | **9** |

**Section IV: Plans and Aspirations** *(please mark the appropriate boxes with an “X” or “✓”)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Moving forward:** | **Strongly**  **Disagree** | **Disagree** | **Agree** | **Strongly**  **Agree** | **Not Applicable** | **Did not answer** |
| 1. I have gained significant knowledge about principles and methods of internal parasite control from this program. | **0**  **(0.0)** | **1**  **(2.1)** | **22**  **(45.8)** | **25**  **(52.1)** | **0** | **2** |
| 1. I intend to apply my knowledge gained as a result of this program. | **0**  **(0.0)** | **0**  **(0.0)** | **16**  **(35.6)** | **29**  **(64.4)** | **3** | **2** |
| 1. I intend to change my grazing program to utilize new forage options. | **0**  **(0.0)** | **9**  **(22.5)** | **18**  **(45.0)** | **13**  **(32.5)** | **6** | **4** |
| 1. I intend to change my management practices regarding dewormer use to incorporate the concept of “refugia” of unselected worms. | **0**  **(0.0)** | **3**  **(7.5)** | **20**  **(50.0)** | **17**  **(42.5)** | **3** | **7** |
| 1. I believe I can improve my animals’ (or my client’s animals’) health and welfare as a result of this program. | **0**  **(0.0)** | **0**  **(0.0)** | **26**  **(56.5)** | **20**  **(43.5)** | **1** | **3** |
| 1. I believe that I can increase my income as a result of this program. | **0**  **(0.0)** | **6**  **(15.0)** | **19**  **(47.5)** | **15**  **(37.5)** | **4** | **6** |
| 1. I believe I can expand my operation as a result of this program. | **0**  **(0.0)** | **8**  **(21.6)** | **13**  **(35.1)** | **16**  **(43.2)** | **7** | **6** |
| 1. I will continue to consult with Extension personnel in developing a parasite control program. | **0**  **(0.0)** | **6**  **(14.6)** | **20**  **(48.8)** | **15**  **(36.6)** | **3** | **6** |
| 1. I require more educational training before applying or making changes to my existing operation/practices. | **6**  **(14.0)** | **25**  **(58.1)** | **6**  **(14.0)** | **6**  **(14.0)** | **3** | **4** |
| 1. I now better understand the FAMACHA scoring system and plan to use it in my flock/herd. | **0**  **(0.0)** | **2**  **(4.7)** | **19**  **(44.2)** | **22**  **(51.2)** | **3** | **4** |
| 1. I plan to seek more information about dewormer resistance in my flock by using fecal egg counts or the DrenchRite Assay. | **1**  **(2.4)** | **8**  **(19.5)** | **22**  **(53.7)** | **10**  **(24.4)** | **4** | **5** |

**Section V: Additional Comments/Feedback**

**-It would be nice to download the recorded sessions and listen while driving.**

**-I need to learn to actually do fecal egg counts myself and don’t feel all that confident about doint it with Drench Rite timing. Like how much is it. Can I do it even if I’ve had to worm almost everyone or can I do it in the fall or winter or should I wait to until Spring. I have limited pasture and a breeding sheep with not much parasite resistance and my “dry lot” is the bottom of a bank barn so some of the ideas are not easy for me to implement, but at least I have some ideas. How do you help sheep recover from anemia? How do you determine if your sheep mineral is good enough and where/how to get better quality minerals? I see treat N2 has a saliva test for parasite resistance. When can we get something like this? I think things I learned from this may have me save some sheep in this difficult year. Like feeding extra during hot weather.**

**-I am a student hoping one day to be a livestock veterinarian and live on a farm with sheep and goats. I attended this program as part of a 4-H project.**

**-Very much appreciated bringing together many great speakers and research material so conveniently.**

**-Having used FAMACHA for several years (not to see if my wormer is working, but to see if they need worming). Have not wormed my most of my sheep for several years.**

**-The Field Day is a good idea – However, milking schedules for my does plus travel time to and from gives a very little window to attend. Perhaps in the future, if the Field Days could be given in 4 or 5 regional locations. The travel time would be diminished. Your attendance would be smaller per session, but allow for more “on hands” work by the participants if so desired.**

**-I would love to have a laboratory to learn how to egg count.**

**-Good program.**

**-Some of the data gathered and presented in graphs was very interesting. It is best to summarize the results in simple applications for use. Parts of the program were very technical and we were tired of looking at all the graphs and percentages presented.**

**-More goat specific information would be useful!**

**-I have small flock of ‘primitive’ breed on small acreage. Last time I wormed was in early ’09 so far no real problems. Appreciate chance to learn more, esp FAMACHA system as a way to access what is going on in my flock.**

**-There is very little help for small ruminant producers and when some information becomes available I want to access it. The opportunity to participate via the Internet without traveling hundreds of miles is greatly appreciated.**

**-Slight problem with hearing speakers especially on Aug 14 session.**

**-Thank you!**

**-Overall a very good, thorough program. A very good setting, very interesting operation.**

**-I like the use of the Internet. A lot of preparation was put in the programs prior to the Field Day. The Field Day was great tying everything together. I can see if someone only attended the Field Day missed a lot of what was being conveyed. Thanks for your work.**

*We have just received additional support for developing tools to assist farmers in making decisions about how to manage internal parasites in their flocks/herds. We are interested in gauging the potential interest in helping evaluate them among those who participated in this series of educational programs. As we develop them, would you be willing to help evaluate these tools for their usefulness through face-to-face meetings and/or written communication? (Do not identify yourself at this time.)*

**34 (85.0%)** □ *Yes***6 (15.0%)** □ *No***10 Did not answer**

***Thank you, your contribution to this effort is greatly appreciated!***