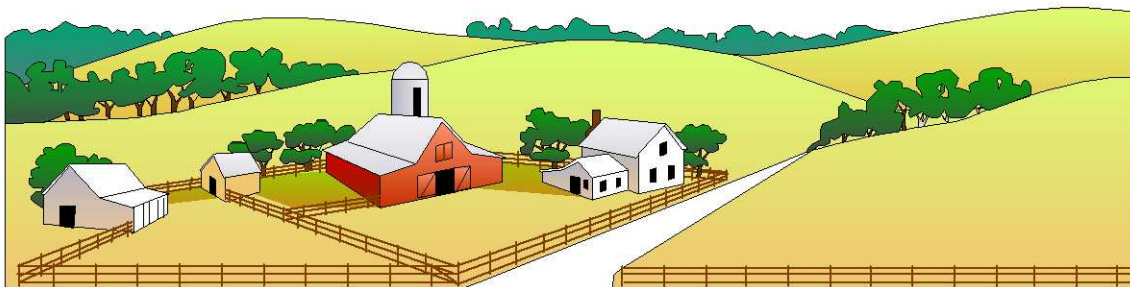


2009
NATIONAL AYRSHIRE
QUIZ BOWL
CONTEST

A DOUBLE-ELIMINATION CONTEST

RULES, REGULATIONS &
CODE OF CONDUCT

MANAGED BY:
HOLSTEIN FOUNDATION
BRATTLEBORO, VERMONT
800-952-5200



Quiz Bowl is a contest where teams of four (4) members compete against each other in a series of pre-constructed rounds. However, teams of three members will be allowed to participate. A three-person team must understand they will be competing at a disadvantage. A three-person team entering competition will start with a 20-point disadvantage from Phase A questions. Competition points are awarded for correctly answering questions about the dairy industry and other related areas.

TEAM ELIGIBILITY:

1. Each team shall be comprised of three (3) or four (4) individuals meeting the specified age requirements as follows:
 - Junior Division: Ages 9 - 15 as of January 1st of the year competing.
 - Senior Division: Ages 16 - 21 as of January 1st of the year competing.
2. Each team shall designate one member to serve as team captain. Team captains are to be seated in the second chair from the time keeper to encourage continuity between teams and to allow all team members to more easily discuss during team-oriented questions.
3. Junior-aged team members may compete on a senior team, but may only compete on one team.
4. There will be no last minute “pick-up” teams. Teams must be entered by June 1st. No late entries will be eligible for competition.
5. Entry forms must be postmarked by June 1st.

CONTEST CONDUCT:

1. Teams will compete in a series of one-on-one elimination contests until the top team has been chosen in each division.
2. Teams will be assigned the first round of competition before the contest officially begins by having each of the team members take a twenty-five (25) question placement test used for round robin seeding. Scores will not carry over to the team competition.
3. Some teams may receive a "BYE" as part of the assignment process if there is an odd number of teams.
4. The competition will be a double-elimination contest. A second loss eliminates a team from continuing competition.
5. Competition between teams will take place in two phases.
6. The winning team will be determined by the highest scores from phase A and B. In the event of a tie, the two teams will be asked an additional five (5) Phase B questions. There will be no bonus questions.
7. Anybody writing down questions or recording will not be allowed to communicate with the teams competing.

CONTEST RULES & REGULATIONS:

Phase 'A': Twelve questions will be asked per team with each team member in rotation being asked three questions. Three-person teams will be at a 20 point disadvantage.

Correct answers will be worth **10 points** with **NO deductions for an incorrect answer**. NO TEAMMATE assistance may be given or received otherwise the answer will be ruled incorrect. Questions will not be repeated. The answer must be started within **5 seconds** of question completion. Each team will be asked the same set of questions. Other teams will remain in isolation until the team in action completes the questions.

Phase 'B': A total of sixteen toss-up questions will be asked. The first team member to activate the signaling device will start to answer the question within **five (5) seconds** after being acknowledged by the moderator or **lose 10 points**. Any member answering without being recognized will **lose 10 points**.

Incorrect toss-up answers result in a **deduction of 10 points**. Any member from the other team also has the opportunity to answer the question after it is reread by the moderator. Any member of the opposing team must first signal with the buzzer and be acknowledged by the moderator before giving the answer.

If the team answers the question correctly, they will receive **15 points**; however, if the answer is not correct, the team will lose **10 points**. If the opposing team chooses not to answer, no points are added or lost.

If neither team can offer an answer to a question within **10 seconds**, the moderator will read the answer.

When a signal is pushed before a question is completely read, the moderator shall immediately stop reading the question. The person signaling prematurely shall answer the question within five seconds. If the answer is correct the team gets credit; but, if the answer is incorrect or incomplete, the team loses 10 points. The judge may NOT ask the contestant to explain his/her answer. The question shall then be reread and any member of the other team will have the chance to answer it.

Bonus Questions: Bonus questions may be earned in the toss-up round. Bonus questions will be asked whenever three team members have answered toss-up questions correctly with the count kept individually for members of both teams within a match. Answers are to be given by the team captain, but team members may consult before the captain gives the answers. Answers must be started within 15 seconds after completion of the question. Individual counts of correct answers do not start at zero following the awarding of a bonus question. Eligibility for bonus questions does not carry over to another match. Bonus questions will be worth 15 points. Credit will be given to the portion of the bonus question answered correctly.

Team consultation will be allowed on bonus questions. Bonus questions are not passed to the other team if not answered correctly or completely.

POINTS FOR BONUS QUESTIONS:

All correct answers will be worth **15 points**. However, partial credit for answers to bonus questions will be assigned as follows.

2 part question:	1 correct	5	points
	2 correct	15	points
3 part question:	1 correct	5	points
	2 correct	10	points
	3 correct	15	points
4 part question:	1 correct	4	points
	2 correct	8	points
	3 correct	12	points
	4 correct	15	points

5 part question:	1 correct	3	points
	2 correct	6	points
	3 correct	9	points
	4 correct	12	points
	5 correct	15	points

RESOURCES FOR CONTEST QUESTIONS:

Questions will be taken from:

1. Hoard's Dairyman - June 2007 to present
2. Dairy Herd Management - June 2008 to present
3. Holstein Foundation Workbooks - Series of eight publications
4. Ayrshire Digest 2008 to present
5. Ayrshire Blue Book - Sire Summary - 2009 edition
6. A History of Ayrshire Cattle in the United States
7. Practice Questions - may be requested or downloaded at www.holsteinfoundation.org from the Holstein Foundation

Questions will involve all phases of the dairy industry including: ag economics; feeds and feeding; milk quality and marketing; herd health; mammary, anatomy, physiology and health; cattle marketing; advertising; etc.

CLARIFICATION OF ACCEPTABLE ANSWERS:

1. Full names of animals - a contestant must use full registration name of an animal with the exclusion of suffix. If the suffix is used, it must be correct, i.e., ET versus ETS or *TD versus *TM.

Examples:	Burr-Ayr-Farms Spider	Correct
	Burr-Ayr-Farms Spider-ET	Correct
	Spider	Incorrect
	Burr-Ayr-Farms Spider-Twin	Incorrect
	Burr-Ayr-Farms Spider-ETS	Incorrect

2. Names of people - when giving a specific person's name, last name only will be acceptable. First name is not necessary, but if given, it must be correct.

Examples:	Payne	Correct
	Becky Payne	Correct
	Betty Payne	Incorrect

3. Pronunciation - judges must recognize answers given as a mispronunciation. The error in pronunciation can affect the correctness of an answer.

Example: For a question with antibody as the answer, antibiotic is incorrect.

4. Volunteering information - if a contestant first gives a correct answer and goes on to add incorrect information, the entire question will be incorrect.
5. Correcting answers - if a contestant gives a complete answer, he or she cannot make a correction. If a partial answer is given and the contestant makes the correction mid-answer or word, the corrected answer will NOT be accepted.

GENERAL RULES & REGULATIONS:

1. All team members must stay in the holding/staging room during the contest unless competing. Once a team has been eliminated, members can leave. Alternates may stay with the team. Coaches also have the option to decide whether they would like to stay in the staging room with their team except when the team is competing, or to stay out of the staging room and be allowed to move in and out of the various contests. Once a coach or alternate has made the decision to stay in or out of the staging room, it must be adhered to during the team's entire competition.
2. The decision of the judges is final. Any spectator or coach who questions or argues with a judge or moderator, or interferes with the running of the contest will be asked to leave. A competing contestant, however, may ask for verification of an answer to a question, but only a contestant.
3. Any questions arising, which are not specifically dealt with in these rules, will be answered as they arise by the Quiz Bowl committee.
4. The information used in this contest is based on data from various sources. While every effort is made to ensure the accuracy of contest information, the Holstein Foundation can not guarantee that errors or omissions will not occur. Therefore, the Foundation can not be held responsible for Quiz Bowl competition outcomes in the unlikely event that inaccuracies occur.

CONTEST OFFICIALS:

1. **Moderator**

The moderator assumes complete direction of all contests, asks all questions, designates contestants to answer questions, accepts or rejects all answers unless overruled by both judges. He/she may seek interpretation of questions and answers from judges. The moderator designates the winner of each contest and shall at all times be in charge; having the final voice in all decisions, except for answers to questions which are ruled on unanimously by judges.

2. **Judges**

Two judges are to be used who are knowledgeable in the subject matter. The judges may rule individually or jointly on the acceptability of any answer. Either both judges, or one judge and the moderator, must agree on the acceptability or rejection of a question and/or answer if either is challenged by a contestant.

3. **Timekeeper**

One individual will be used to record time and to indicate to the moderator the expiration of the time allowed in which to answer questions.

4. **Scorekeepers**

Two individuals will keep scores on each contest. One scorekeeper will write in such manner that all points awarded may be checked while the other remains visible to the moderator, the contestants, and insofar as possible, the viewing audience.

Organizing a Championship Quiz Bowl Team Ayrshire Fact Sheet



Quiz Bowl is a wonderful activity that brings together Junior members interested in the dairy industry. Youth have the opportunity to make rewarding friendships and gain knowledge about their industry. This fact sheet will help serve as a guideline to organizing a quiz bowl program for youth on a variety of levels.

Finding Competitors

The quiz bowl program is set-up for anyone who has an interest in the dairy industry. Quiz bowl gives youth the opportunity to expand their knowledge of the industry in many different areas, while enhancing their competition skills.

Preparing for Competition

Now that you have found a group of youth interested in competing, they need to start learning and sharing information. One way to start is by having the group share some of their experiences they have learned growing up in the industry. Youth have a wealth of information, just from working with their projects. By sharing these experiences they can learn information from each other and determine what areas each person is interested in.

A great way to prepare for the contest is to get sets of practice question from past contests. Questions can be obtained by talking to teams who have competed in the past. If potential team members practice who can answer the questions first, they will be prepared for the questions during real competition. It is extremely beneficial to practice with a set of competition buzzers.

To prepare for the questions that will be covered in upcoming competitions, the team must study other sources besides old questions. Some previous questions will come up each year, but the dairy industry is always changing. Studying current issues of industry publications allow the well prepared teams to rise to the top. Questions for each year are taken from the past June to May issues of Dairy Herd Management, Hoard's Dairyman, Holstein Foundation Workbooks, etc.

If the juniors divide the number of issues among themselves, the sources can be covered without each team member reading each magazine. Each teammate should be responsible for knowing his or her assigned issues completely and also report to the rest of the team the general information. One way to use information gathered from these issues is to create competition-like questions. This helps build a stronger team because each teammate knows general information from the entire year and one team member is well educated in that area. In addition, they know who to rely on for certain answers, giving them more confidence and greater ability to work as a team.

Selecting the Team

When you have large groups of interested youth, a system will need to be set up to determine team members. Each team consists of four members. There are various ways to select the team that will represent your group in county, district, state, or national competitions. One way is to select the team strictly by a written exam. This gives you the best test takers, although keep in mind some people do better on tests and freeze in competition.

The written exam can also be combined with an oral competition. The exam could be used to determine the top eight or ten members and then an oral round could be implemented to calculate the top four and an alternate.

Another approach would be to let the members choose teams and run a contest among those teams. The contest would need to parallel the national contest. The winner of this round robin would be the team to send to further contests, while the other teams could continue to practice and work together to compete in future years. Reinforce the fact that they are all winners, no matter who goes on to further competitions. If they feel like failures they are less likely to continue to practice and stay involved.

It is beneficial to use the older members when it is time to choose a team. The younger members have additional years to use their eligibility and would also benefit from more years of practice.

The Contest

The contest is structured in a round robin double-elimination format. A 25 question written exam is taken to determine the positions for the first round. After the first round is completed, a loss bracket is formed. Each team must lose twice to be eliminated from the contest.

Once the teams are seeded from the written test, round one begins. The team members combined score is used to determine position. Each round consists of two phases. In phase A, teams are brought in the room individually. Both teams are asked the same set of questions. Each team member is asked three ten point questions. The member asked the questions must answer within five seconds. There is no penalty for unanswered questions or incorrect answers and no help from teammates.

Phase B is the toss-up round. The contestant who rings in first is called on by the moderator. He or she is given ten seconds to answer the question for fifteen points. When a question is answered incorrectly there is a ten point penalty. There is no help from team members in this section. Phase B also contains a bonus section where questions are worth fifteen points. A bonus is given to a team when three different members answer a question correctly in Phase B. On bonus questions the team is allowed to confer and the team captain gives the answer. It is necessary for team members to have confidence in each others ability to answer the questions. Remember that when two teammates answer most of the questions and the other team misses the question to give the other members a chance to answer because it may produce a bonus question in your favor.

Winning a Championship

Although all participants in the quiz bowl program are winners, only one champion can be named in each division. The desire to be national champions comes from within the team. If they have confidence in themselves and each other, they are well on their way to the top.

More information contact:

Holstein Foundation

P.O. Box 816

Brattleboro, VT 05302-0816

800-952-5200, ext. 4124

2009 AYRSHIRE SAMPLE QUESTIONS

1 Using official tattoos is one of the preferred methods of identification for Ayrshires. Which ear contains the tattoo?

Left (AD 08)

2 Where did the Ayrshire breed originate?

Scotland (ABA 07)

3 Twenty-six percent of all cheese sold in the U.S. is manufactured in what state?

Wisconsin (HDI 12/07)

4 Name the dairy cooperative with the most member farms.

Dairy Farmers of America (HD 10/07)

5 What is the name of the official publication of the Ayrshire Breeders' Association?

Ayrshire Digest (AD 03)

6 The California Mastitis Test is used to measure what in milk?

Somatic cell count (HD 12/07)

7 What is the general recommendation for milk replacer crude protein percent?

20 to 28% (DHM 07)

8 Twinning can present many problems to dairy farmers such as an increase in the incidence of retained placentas, displaced abomasums, and ketosis. Which season of the year is the incidence of twins more frequent?

Summer (HD 07)

9 What is the highest classification score assigned to a U.S. Ayrshire cow?

97 points (ABA 07)

10 The newborn dairy calf is technically a monogastric or single stomach animal at birth. Which stomach compartment in the newborn calf is functioning at birth?

Abomasum (HD 07)

11 What is the name of the process by which cows are impregnated with semen from a bull without the bull being present?

Artificial insemination (HD 07)

12 What is the average weight of a mature Ayrshire cow?

1,200 pounds (ABA)

13 How long does the average mount last during an estrus period?

4 to 6 seconds (HD 07)

14 What kind of bedding supports the least amount of bacteria?

Sand (HD 07)

15 Before a calf is weaned, it should be consuming how many pounds of starter a day?

1.5 to 2 pounds (HD 07)

16 On average, which breed of cow has the longest productive life?

Jersey (HDQ 3/06)

17 When does peak milk production occur?

6 to 8 weeks after calving (NUT 07)

18 At what Fahrenheit temperature are cattle most comfortable?

50 to 55 degrees F (HD 07)

19 What name is given to the very firm gums of the upper jaw of a ruminant?

Dental pad (ANAT 07)

20 What two parts of a cow's anatomy can be twisted to one side and are often called "wry"?

Face and tail (ANAT 07)

21 How many parathyroid glands does the dairy cow have?

Four (ANAT 07)

22 Cows can suffer from a prolapsed uterus immediately after what?

Calving (HD 07)

23 According to the 2007 U.S. dairy statistics, which state has the greatest number of cows?

California (HD 5/08)

24 Name the Grand Champion at the 2007 Mid-Atlantic National.

Dingmac BBBK Lovely Alona-ET (AD 08)

25 Newborn calves need to receive at least what percent of their body weight in colostrum after delivery?

8 to 10% (DHM 07)

26 What usually occurs in cows with metabolic problems and follows difficult calvings. It greatly increases the risk of uterine infections.

Retained placenta (HD 07)

27 What is the biggest danger to overmilking?

Damage to teat end (HD 07)

28 Low SCC milk has more casein, the primary component in which dairy product?

Cheese (DHM 07)

29 How much does it cost to become a Junior member of the Ayrshire Breeders' Association?

\$10.00 (ABA)

30 Fertility, as measured by daughter pregnancy rate, is lowest in which breed?

Guernsey (HD 12/07)

31 What is the name of the tube that leads from the mouth to the stomach?

Esophagus (NUT 07)

32 For lease animals to be eligible to show in National Junior Ayrshire shows, agreements must be received by what date?

August 1st (AD 08)

33 On a percentage basis, what area has lost the most licensed herds?

Southeast (HD 3/07)

34 Name the dairy cow condition where the shoulder separates from the side and juts out sharply at the elbow?

Wing shoulder (ANAT 07)

35 Which country has the world's largest dairy herd?

India (HD 12/07)

36 Which Ayrshire cow was named the 2007 Junior All-American Age Cow?

Cedarvale Black China (AD 08)

37 What is the capacity of the rumen in an average cow?

40 to 50 gallons (NUT 07)

38 What breed is the most susceptible to copper toxicity?

Jersey (HD 07)

39 What term can be defined as the loss of feed from the point of harvest or delivery, to what is actually consumed by the cows?

Feed shrink or shrink (DHM 07)

40 Name the winner of the 2007 *Ayrshire Digest* photo contest.

Beverly Donovan (AD 08)

41 Where is most of the potassium located in an alfalfa plant?

Stems (HD 07)

42 The U.S. isn't the only country with a genomic test. Name the other country.

New Zealand (HD 5/08)

43 What is the ideal body condition score for a dry cow?

3.0 to 3.5 (HD 07)

44 What is the term used to describe the test that measures the amount of dirt in milk?

Sediment test (HD 07)

45 What organization conducts the Young Dairy Leaders Institute?

Holstein Foundation (HF 07)

46 Which breed of dairy cattle has the lowest rate of dystocia?

Jersey (HD 12/07)

47 According to the official PDCA showing and fitting scorecard, how many points are given in a showmanship contest for leading?

25 points (PDCA 07)

48 Proper pH is critical to growing high-yielding alfalfa. What is the most often used commodity spread on fields to achieve proper pH?

Lime (HD 12/07)

49 When is the best time to take a cow's temperature?

Morning - temperature rises with the heat of the day (DHM 07)

50 Manure odor intensity would be the least during what kind of weather?

Cool (HD 07)

51 Name the Grand Champion at the 2007 Eastern States National.

Lone Birch Mysti (AD 08)

52 When is the best time to fertilize alfalfa fields?

After first cut (HD 07)

53 What activity of the bovine's digestive process stimulates saliva flow?

Cud chewing or rumination (HD 07)

54 What does the Delvo test detect?

Antibiotic residues in milk (HD 07)

55 What does DCR stand for when talking about dairy herd improvement programs.

Date Collection Rating (HD 07)

56 When making baleage, what moisture level should hay be made at?

60 to 70% (HD 07)

57 What simple household ingredient can help with urea poisoning? It changes the rumen environment and neutralizes the urea.

Vinegar (HD 07)

58 What is the term given to the highest point on a cow's lactation curve, when she is giving the most pounds of milk per day?

Peak (HD 07)

59 Which stomach compartment is closest to the heart?

Reticulum (ANAT 07)

60 Who is the managing editor of the *Ayrshire Digest*?

Seth Johnson (AD 08)

61 Name the calf delivery position where the tail and butt come first.

Breech position (DHM 07)

62 What hormone in the first week following ovulation actually inhibits the development of the corpus luteum?

Oxytocin (HD 07)

63 What digestive condition occurs 80 to 90 percent on the left side of the cow's abdomen sometime after calving? Annual incidence is from 1.4 to 5.8 percent.

Displaced abomasum (HD 07)

64 What is the most likely source of Johne's disease?

Manure (HD 07)

65 What name is given to the contents of the large intestine that eventually leave the body through the rectum?

Feces (NUT 07)

66 What flavor in milk is characterized by a sharp, unclean, astringent taste that lingers as an unpleasant aftertaste?

Rancid (HD 07)

67 How often should one culture their bulk tank?

Once a month (HD 07)

68 What is the name of the device that judges quality by measuring the specific gravity of the colostrum and correlating this with the immunoglobulin or antibody concentration?

Colostrometer or hydrometer (HD 07)

69 Teat dip contains what germ-fighting element?

Iodine (HD 07)

70 A single case of lameness is costly, averaging more than how much per cow?

\$300 (HD 5/08)

71 What is the unit of inheritance called?

Gene (AIM 07)

72 What system does pneumonia primarily affect?

Respiratory (HD 07)

73 Well-preserved corn silage will have a pH of what?

3.7 to 4.2 (HD 07)

74 The first vaccine for bovine neosporosis has been granted approval from USDA. Who was the vaccine developed by?

Intervet, Inc. (HD 07)

75 What respiratory disease syndrome can develop in cattle following transport or movement?

Shipping fever (HD 07)

76 An Ayrshire cow must be what percent purebred or higher to participate in ABA programs?

87.5% (AD 08)

77 What is the greatest, most disruptive disease ever to affect British agriculture?

Mad cow disease (HD 07)

78 What temperature is best to serve milk?

33 to 40 degrees F (HD 07)

79 On what university campus would you find a statue of W. D. Hoard?

University of Wisconsin (HD 07)

80 Fear will cause what hormone to enter a cow's blood stream?

Adrenaline (AIM 07)

81 In Europe, robotic milking units became available in what year?

1992 (HD 07)

82 What is the primary female sex hormone?

Estrogen (HD 07)

83 Which state holds the record for most wins in the National 4-H Dairy Judging Contest?

Maryland (HD 07)

84 What organ controls a cow's body temperature?

Hypothalamus (HD 07)

85 Cereal grains contain what percent starch?

45 to 75% (HD 07)

86 What name describes the circumference of the body behind the shoulders of a dairy animal?

Girth (ANAT 07)

87 What organization manages the 15-cent dairy check-off program?

Dairy Management, Inc. (HDQ 12/07)

88 Active immunity is the type of immunity given to cattle by what method?

Vaccines (HD 12/07)

89 What organization publishes the Nutrient Requirements for Dairy cattle, the guide to feeding dairy cattle?

National Research Council (HD 07)

90 Mycobacterium paratuberculosis is the causative agent of what major cattle disease?

Johne's disease (HDQ 10/07)

91 Corn silage is usually harvested at how many inches above the soil?

6 inches (HD 07)

92 What is the name of the gas commonly called silo gas that is created when nitric oxide combines with oxygen in the silo?

Nitrogen dioxide (HD 07)

93 In drought stressed corn, where will the largest amounts of nitrate be found?

Stalks (HD 07)

95 Feeding an excess of what nutrient is the principal cause of overconditioning heifers?

Energy (HD 07)

96 Which by-product of cheese rose dramatically for price in 2007?

Whey (HD 12/07)

97 What term describes an animal's personal space surrounding their body?

Flight zone (HD 07)

98 What is expected to be the most prevalent form of external parasite infestation in milking-age cows?

Mange (HD 07)

99 For long-term colostrum storage, what is the best alternative?

Freezing (HD 07)

100 What term describes essential and nonessential groups that are the basic building blocks for protein?

Amino acids (HD 07)

Quiz Bowl

ENTRY FORM



All teams must designate a team captain and coach.
The coach should be recognized by the state association.
Entry forms must be postmarked by June 1st.

Division: Junior Senior

State Team Captain

TEAM COACH

Name

Address

City State Zip

Phone Number

TEAM MEMBERS

Name

Parents Name(s)

Address

City State Zip

Phone Number Date of Birth

Name

Parents Name(s)

Address

City State Zip

Phone Number Date of Birth



Name					
Parents Name(s)					
Address					
City		State		Zip	
Phone Number		Date of Birth			

Name					
Parents Name(s)					
Address					
City		State		Zip	
Phone Number		Date of Birth			

ALTERNATE TEAM MEMBERS

Name					
Parents Name(s)					
Address					
City		State		Zip	
Phone Number		Date of Birth			

Name					
Parents Name(s)					
Address					
City		State		Zip	
Phone Number		Date of Birth			

Dairy Bowl entries should be postmarked by June 1st to:

Holstein Foundation
ATTN: Kelli F. Dunklee
P.O. Box 816, Brattleboro, VT 05302-0816
800-952-5200, ext. 4124