National FFA Career Development Events

A Special Project of the National FFA Foundation

National FFA Career Development Events General Information

Contact:

Career Development Events Education Specialist National FFA Center 6060 FFA Drive PO Box 68960 Indianapolis, Indiana 46268-0960 (317) 802-4288 Technical Writer: Jessica Scholer Indianapolis, Indiana

These are the official rules and regulations for National FFA Career Development Events for 2012-2016. Refer to the CDE webpage on ffa.org for the most up-to-date edition of the career development event handbook.

Prepared and published by the National FFA Organization. The National FFA Organization is a resource and support organization that does not select, control or supervise state association, local chapter or individual member activities except as expressly provided for in the National FFA Organization Constitution and Bylaws. The National FFA Organization affirms its belief in the value of all human beings and seeks diversity in its membership, leadership and staff.

FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth and career success through agricultural education. National FFA Online, www.ffa.org, FFA's Internet web site, can provide information about the National FFA Organization.

Philosophy of National FFA Career Development Events

The National FFA Organization is dedicated to organizing experiences that will meet the future needs of students while accomplishing the current purposes of agricultural education. The primary goal of career development events is to develop individual responsibilities, foster teamwork and promote communication while recognizing the value of ethical competition and individual achievement.

The activities in each career development event:

- include problem solving, critical thinking and teamwork skills, where appropriate.
- encourage appreciation for diversity by reducing barriers to participation among members.
- develop general leadership and recognize individual and team achievement.
- promote concentrated focus on future needs of members and society.

The National FFA Organization assumes the leadership role in developing and continuously improving relevant FFA career development events. National career development events should reflect instruction that currently takes place in the entire agricultural education program, including classroom instruction, laboratory instruction, individualized instruction and/or supervised agricultural experience. Career development events and awards are intended to be an outgrowth of instruction. Also, it is appropriate for the national organization to develop career development events and awards that stimulate instruction in emerging areas that reflect both current and future community, national and global work force needs. National FFA Career Development Events should be developed with significant input from FFA members, teachers, partners, respective industry sponsors and others involved in agricultural education. The National FFA Organization continues to encourage accessibility and provide opportunities for achievement and recognition for students with diverse backgrounds.

Career development events that include team activities should be based on cooperation and teamwork while recognizing the value of competition and individual achievement. Where appropriate, team activities will be included that require two or more members from one chapter working cooperatively.

Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Standards

Agriculture is a highly technical and ever-changing industry upon which everyone is dependent. In order to maintain agriculture as the nation's number one industry, it is crucial to understand the importance of agrisciences, marketing strategies, safe food production and continuous research. Strong, relevant agriscience programs are one way to can maintain the nation's agricultural edge.

The National AFNR Career Cluster Content Standards were developed as part of the National FFA 10 x 15 project to provide state agricultural education leaders and teachers with a forward-thinking guide for what students should know and be able to do through the study of agriculture. The National AFNR Career Cluster Content Standards should be used as a guide to develop well-planned curriculum in agriscience education to be delivered to students throughout the country. For a complete copy of the AFNR Career Cluster Content Standards please visit www.agedlearning.org.

National FFA Organization has adopted the AFNR Career Cluster Content Standards and integrated them into all national award and recognition programs for the benefit of the members, school administration and agriculture as a whole. Details outlining the incorporation of the standards in career development events can be found at the end of each event chapter in the CDE handbook.

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Official CDE Rules and Policies - 2012-2016

General Rules

Violations of any of the following rules may be grounds for the event superintendent to disqualify the participants. National FFA staff and event superintendents will use the published rules and procedures to organize and implement the National FFA Career Development Events. Event activities may not be conducted due to lack of necessary materials, expertise or extreme impact to event budgets. Teams that are certified to compete will receive the current event format in a team orientation packet prior to the convention.

Official Dress Recommendations, Number of Participants and Number of Scores for Team Total

Event	Official Dress Appropriate	Number of Participants Allowed (per team)	Number of Scores Counted for Team Score
Agricultural Communications	Yes	3	3
Agricultural Issues Forum	Optional	3-7	Team Score Event
Agricultural Technology and Mechanical Systems	No	4	Top 3 Scores
Agricultural Sales	Yes	4	4
Agronomy	Yes	4	4
Creed Speaking	Yes	1	N/A
Dairy Cattle Management and Evaluation	Yes	4	4
Dairy Cattle Handlers	Yes	1	N/A
Environmental and Natural Resources	No	4	4
Extemporaneous Public Speaking	Yes	1	N/A
Farm Business Management	Yes	4	Top 3 Scores
Floriculture	Yes	4	4
Food Science and Technology	Yes	4	4
Forestry	No	4	4
Horse Evaluation	Yes	4	Top 3 Scores
Job Interview	Yes	1	N/A
Livestock Evaluation	Yes	4	4
Marketing Plan	Yes	3	Team Score Event
Meats Evaluation and Technology	No	4	Top 3 Scores
Milk Quality and Products	Yes	4	4
Nursery/Landscape	Yes	4	Top 3 Scores
Parliamentary Procedure	Yes	6	Team Score Event
Poultry Evaluation	Yes	4	Top 3 Scores
Prepared Public Speaking	Yes	1	N/A
Veterinary Science	No	4	4

Eligibility of Participants

- A. Each participant must be a current, bona fide, dues paying FFA member in good standing with the local chapter, state FFA association and the National FFA Organization during the school year which the participant qualified to participate at the national level.
 - 1. In the event a participant's name is not on the chapter's official roster for the years in which the dues were payable to the National FFA Organization, a past due membership processing fee, in addition to the dues, must be paid prior to the national event.
 - 2. National FFA membership staff will set the processing fee amount annually.
- B. The participant, at the national event, must:
 - 1. Be a high school FFA member; high school refers to grades 9-12. (A graduating senior is considered eligible to compete in state and national career development events up to and including his/her first national convention following graduation.)
 - 2. Have qualified as a 7th, 8th or 9th grade member to participate in the Creed speaking event.
 - 3. While in high school, be enrolled in at least one agricultural education course during the school year and/or follow a planned course of study; either course must include a supervised agricultural experience program, the objective of which is preparation for an agricultural career.
 - 4. If a student moves to a different chapter or a different state once a he/she has qualified as a state representative in a career development event, that student may be allowed to compete in the national event with the school he/she qualified with during the qualifying year.
- C. A student may not participate more than once in the same official National FFA Career Development Event.
- D. No student may participate in more than one National FFA Career Development Event each year.
- E. Each member participating in a National FFA Career Development Event must submit the proper *Waiver, Release of Liability and Consent to Medical Treatment Form* prior to start of event.

Selection and Certification of State Teams

- A. Each state will submit a team declaration form by **June 1** prior to the national FFA convention. An entry processing fee will be charged for participation in each declared event with the exception of the dairy cattle handlers activity.
- B. Each team will be composed of the number of members determined by the specific event rules and formats. The members of a state team must be from the same chapter. Members must qualify in the career development event in which they are to participate at the national level. Teams must be selected at a state or interstate career development event held between the immediate previous national FFA convention and prior to the national FFA convention in which they are participating. States that qualify more than one year out must request and submit a written waiver for approval by the certification deadline.
 - 1. Online certification deadline: September 15.
 - 2. Online add/delete deadline: Tuesday before convention at noon (Eastern).
- C. With extenuating circumstances a teacher may substitute another student from the chapter who may not have participated at a state qualifying event, with the exception of Creed speaking, dairy handlers activity, extemporaneous public speaking, job interview and prepared public speaking, which must be submitted and approved by state staff.

- D. The state supervisor of agricultural education or the executive secretary must certify that participants are eligible. If an ineligible student participates in any career development event, the member will be disqualified and may result in the disqualification of the team as well.
- E. All students must be certified online by the designated deadline. Once original certification has been completed, no member may be added without first deleting a member.
- F. The national organization will certify National FFA Career Development Event winners for international competition when states request, with the understanding that the state team will provide their own travel expenses.

Emergency Conditions

Under emergency conditions a state team participating in a National FFA Career Development Event may be made up of less than the required members. States must still certify teams prior to the national FFA convention, but fewer than the required members could compete if an emergency condition such as illness, death in the family or an act of God would occur. Those individuals competing would still be eligible to qualify for individual awards, if applicable.

Disqualification

- A. Any communication, verbal or non-verbal, between participants during a career development event will be sufficient cause to eliminate the team member involved from the career development event. The only exception to this would be communications between team members during the team activity portion of a given career development event.
- B. Teams or participants arriving after the career development event has begun may be disqualified or penalized.
- C. Any assistance given to a team member from any source other than the career development event officials or assistants will be sufficient cause to eliminate the team from the career development event.
- D. Event superintendents may stop any participant if they deem their manner to be hazardous either to themselves or others. Such action shall deem the individuals disqualified for that section of the career development event.
- E. Participants who start an event and do not complete the event without notifying event officials at the time of departure will be disqualified. This can affect the overall team rank and position. In some events this will also disqualify the entire team.
- F. Participants will not be allowed to utilize personal electronic communication devices, other than those approved by the event officials, during the entire course of the event. Participants who access personal electronic communication devices without prior approval of the event officials will be disqualified.
- G. No participant shall gain access to real materials that will be utilized by the event committee during competition. Any team, participant, advisor or coach reported and proven to do so will be disqualified from the national event.

Additions/Deletions of National Events

- A. National FFA staff is expected to be proactive in developing new or initiating changes within existing career development events to ensure that they meet the needs of FFA members.
- B. If fifteen (15) state supervisors/executive secretaries develop a proposal for a new career development event, the national FFA staff will conduct a study for the validity of the career development event and make a recommendation to the chief executive officer. Representatives of these states must be from each of the FFA regions. The same process may be used to eliminate a national career development event.
- C. Three years following the initiation of a new career development event, at least fifteen (15) states should be participating. After the next three-year period, at least twenty-six (26) states should be participating in order to retain the event at the national level.

Rules Committee/Scoring Appeals Process

- A. If a written appeal is filed within the seven (7) calendar days after results announcement, national CDE staff will review the appeal. Upon receiving input from team leader and division director, national CDE staff will accept or deny the appeal. The national CDE staff's recommendation will be shared with appeals committee and National FFA Chief Executive Officer for further input, if necessary.
 - 1. The written appeal must be filed with the Education Division staff responsible for scoring career development events within seven (7) calendar days of the results announcement and accompanied by a \$50 filing fee. The fee will be returned if the appeal is justified.
- B. The appeals committee will be chaired by the National FFA Awards, Recognition and Career Development Events Advisory Committee chairperson who will in turn appoint a representative of the each of the following organizations: National Association of Supervisors of Agricultural Education (NASAE), National Association of Agricultural Educators (NAAE) and the American Association for Agricultural Education (AAAE). The National FFA staff responsible for career development events will also serve on the committee.

Waiver of FFA Rules

Any local chapter seeking a waiver of a National FFA policy or procedure must submit in writing to the chapter's state FFA association office. If the request is approved at the state level, it must be forwarded, under the signature of the state advisor or executive secretary, to the career development events education specialist. After study by the appropriate FFA staff, a recommendation to grant or deny the appeal will be forward to the chief executive officer for his/her approval. The request must be submitted to the national FFA staff at least 30 days prior to the scheduled event or due date for which the waiver is requested. This policy does not supersede any current FFA policy for appeals already established for a particular FFA program.

Selection of CDE Superintendents and CDE Committee Members

- A. Nominations for CDE superintendents may come to National FFA staff from the following sources:
 - 1. standing CDE superintendent
 - 2. current CDE committee members
 - 3. state leadership
 - 4. Team Ag Ed partners
- B. CDE superintendents will be selected by national CDE staff and approved by the National FFA Chief Executive Officer.
- C. Each CDE superintendent will serve a three to five year term. At the end of the superintendent's term, a qualified replacement will assume the duties of superintendent.
- D. National FFA staff and CDE superintendents will select qualified individuals to serve on CDE committees. Selection of committee members will be based on:
 - 1. individual qualifications.
 - 2. recommendations from state leaders, current CDE committee members, CDE superintendents or National FFA staff.
 - 3. recommendations from Team Ag Ed partners.
 - 4. current rotational procedures developed by each CDE committee.
 - 5. provide diversity for the committee.
 - 6. commitment to serve a minimum of three years on the committee.
- E. Final approval of new committee members is the responsibility of the National FFA CDE staff with input and recommendations from CDE event superintendent and committee.

Sanctioning Events

Sanctioning of non-national FFA competitive events (those competitive events conducted by organizations other than the National FFA Organization) as National FFA Career Development Events should occur when:

- 1. The highest quality event possible is conducted.
- 2. Organization conducting event and National FFA Organization agree that event can and should be sanctioned.
- 3. Event is recommended by the National FFA Staff responsible for CDEs with input and agreement from the Award and Recognition Advisory Committee and approved by the National FFA Chief Executive Officer.
- 4. National FFA is represented by staff responsible for career development events on the planning and implementation committee for each event.
- 5. Winners of the national sanctioned event will be recognized in the same manner as national career development events winners are currently recognized.

Official Dress

Participants are expected to observe the National FFA Code of Ethics and the proper use of the FFA jacket during career development events. (Please reference the latest edition of the Official FFA Manual.) Official FFA dress is highly recommended for all participants where appropriate and is required for the awards presentation and recognition.

Accessibility for All Students

All special needs requests and appropriate documentation as outlined in the special needs request policy must be submitted at time of certification.

- 1. Special needs policy is posted on the CDE program page at www.ffa.org/cde
- 2. Special needs request due: August 15

Written Document Penalties

A penalty of 10% of the total points allotted will be assessed for the written documents received after the postmarked deadline. If the document is still not received seven days after the postmarked deadline, the team/individual may be subject to disqualification.

- 1. National staff will mark late entries as such.
- 2. Event officials will be notified of late entries at the time written documents are provided for judging.
- 3. Event superintendent will ensure that penalty is applied.

National FFA Dairy Cattle Evaluation and Management Career Development Event

A Special Project of the National FFA Foundation

Important Note

Please thoroughly read the Introduction Section at the beginning of this handbook for complete rules and procedures that are relevant to all National FFA Career Development Events.

I. Purpose

The purpose of the National FFA Dairy Cattle Evaluation and Management Career Development Event is to provide a competitive event for agricultural education students which emphasizes skills in dairy cattle management and evaluation.

II. Objectives

- A. To provide a practical experience to students enrolled in agricultural education with an interest in dairy cattle to help prepare for industry positions or in management of a modern dairy herd.
- B. To develop students' skills in observation, analysis, communication and team collaboration.
- C. To provide experience in the evaluation of dairy cattle type, production records and dairy herd management.
- D. To encourage agriculture instructors to seek assistance from various resources in the dairy industry. (Examples: dairy breed associations, artificial breeding associations, state extension dairy specialists, state dairy herd improvement associations, dairy equipment manufacturers, local dairy farmers and breeders, etc.)

III. Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Standards

With the recommendation of the National FFA Board of Directors, all national FFA programs have incorporated these standards to guide the direction and content of program materials and activities. Refer to Appendix A in this chapter of the handbook for a complete list of the measurable activities that participants will carry out in this event. For details about the incorporation of AFNR standards, refer to the Introduction chapter of the CDE handbook.

IV. Event Rules

- A. Each team will be comprised of four members. All four scores will be used to determine total team score.
- B. It is highly recommended that participants wear FFA Official Dress for this event.
- C. Participants will report to the team orientation meeting for instructions at the time and place shown in the current year's team orientation packet.
- D. The most current and updated information will be used as industry standards change.
- E. Computer score sheets will be used in the event to record all responses. These forms must be completed within the time allotted for each section of the event. No additional time will be permitted to transfer responses to computer scoring sheets. Responses that are not correctly recorded on the computer score sheets cannot be considered due to the large number of participants' responses that must be processed.

V. Event Format

- A. *Materials student must provide*: Each participant must have:
 - 1. A clean, free of notes clipboard
 - 2. Two sharpened No. 2 pencils
 - 3. An electronic calculator. Calculators used in this event should be battery operated, nonprogrammable and silent with large keys and displays. Calculators should only have these functions: addition, subtraction, multiplication, division, equals, percent, square root, +/- key and one memory register. No other calculators are allowed to be used during the event.
- B. Team Activity Dairy Management Activity 600 points
 - 1. Each team will be provided with a dairy farm management scenario to identify problems and determine possible improvements. (See team activity example in Appendix C.) All necessary information will be provided. Teams should assume the role of a hired consultant advising a producer (judges). Teams will be given 40 minutes to prepare their recommendations to be presented to a panel of judges. It is not necessary to describe the scenario to the judges since they are the producer. Teams will be allowed 10 minutes to present their recommendations, followed by 5 minutes of clarifying questions from the judges.
 - 2. The scenario will be based on the following rotating topic areas:
 - 2012 & 2016: Genetics/Reproduction
 - 2013: Feeds/Nutrition
 - 2014: Housing/Facilities
 - 2015: Health/Diseases
 - 3. Each scenario may include animal welfare, biosecurity, business management, current issues, environmental management and safety concerns related to the topic area.
- C. Individual Activities
 - 1. General Knowledge Exam 150 points
 - a. The exam will consist of a 50 question exam involving dairy management practices and DHI records.
 - i. Forty questions will cover various dairy management and industry related topics.
 - ii. Ten questions will be answered using a dairy herd record evaluation data sheet to analyze individual cows. (See sample herd record evaluation data sheet in reference section.)
 - b. Appropriate information necessary to answer the DHI questions will be provided.
 - c. Participants will have 30 minutes to complete the exam.
 - 2. Evaluation and Selection 300 points
 - a. Six classes of four dairy animals will each be placed on type. Classes will be selected from the recognized breeds of dairy cattle. The class selection committee, however, shall give priority to selecting quality cattle in the breeds available and not be obligated to having all breeds represented in the evaluation classes. Classes will consist of heifers, young cows or mature cows.
 - b. Participants will be permitted to view the animals from all angles but will not be permitted to handle them.
 - c. The handlers/cattle will wear numbers which identify the animals.
 - d. Each class is worth 50 points maximum for a correct placing.
 - e. Participants will have 12 minutes to place each class. For classes on which oral reasons will be given, participants will be given 15 minutes.

6. Oral Reasons - 150 points

- a. Oral reasons will be required on three classes. These three classes will be designated by the event superintendent prior to the actual evaluation of the class.
- b. Oral reasons will be given in another location immediately following the evaluation classes.
- c. Participants may not use notes during delivery of reasons. Points will be deducted for the use of notes.
- d. Each class is worth 50 points maximum for each set of reasons.
- e. Participants will have 12 minutes to prepare each set of oral reasons. No more than two minutes may be used to deliver the reasons before the judges.

VI. Scoring

Individual	Maximum Points
General knowledge exam	150
Evaluation	300
Oral reasons	<u>150</u>
Total possible score	600

Team	Maximum Points
Dairy management activity	y 600
Total individual score x4	2,400
Total possible score	3,000

VII. Tiebreakers

If a tie occurs, the following events will be used to determine award recipients: Individual

- 1. Oral reasons score
- 2. General knowledge exam score
- 3. Evaluation score

Overall Team

- 1. Team activity score
- 2. Total oral reasons score
- 3. Total general knowledge exam score
- 4. Total evaluation score

VII. Awards

Awards will be presented to individuals and/or teams based upon their rankings at the awards ceremony. Awards are sponsored by a cooperating industry sponsor(s) as a special project, and/ or by the general fund of the National FFA Foundation.

The high-scoring participant in each of the following categories will also receive a certificate recognizing their accomplishment:

- A. High Breed total (High individual of each breed- Holstein, Jersey, Guernsey, Brown Swiss, etc.) with associated oral reasons scores as applicable
- B. Oral reasons score
- C. General knowledge exam
- D. Team- dairy management activity

VIII. References

This list of references is not intended to be all-inclusive. Other sources may be utilized, and teachers are encouraged to make use of the very best instructional materials available. The following list contains references that may prove helpful during event preparation.

National FFA Core Catalog—Past CDE Material (<u>http://shop.ffa.org/cde-qas-c1413.aspx</u>)

Hoard's Dairyman- Judging contest and materials, youth tests and quiz questions: <u>www.hoards.com</u>

Cornell University Department of Animal Science Dairy Resources: http://www.ansci.cornell.edu/4H/dairycattle/dairyresources.html

Virginia Dairy Quiz Bowl study materials: <u>http://www2.dasc.vt.edu/youth/bowlmat.html</u>

CEV Multimedia, Inc.: www.cevmultimedia.com

Holstein Association: www.holsteinusa.com

Dairy Herd Improvement: www.drms.org

2009 Dairy Unified Scorecard: <u>http://www.usjersey.com/Reference/</u> PDCA Dairy Cow Unified Scorecard 2009update.pdf

Dairy Cattle Evaluation and Management Team Activity Content Scorecard - 400 points

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State:

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Indicators	Very strong evidence skill is present 10-8	Moderate evidence skill is present 7-4	Strong evidence skill is not present 3-0	Points Earned	Weight	Total Score
A. Opening statement	Begins with an impact statement or question that articulates the fo- cus of the topic area.	Begins with an impact statement or question that is vague concern- ing the topic area.	Begins with a state- ment or question that is completely irrelevant to the topic area.		X 2	
B. Identification of problem areas	4 or more problems from the scenario are accurately identified and discussed.	2-3 problems from the scenario are accurately identified and discussed.	1 or no problems from the scenario are accu- rately identified and discussed.		X 4	
C. Supporting information	Does an outstanding job discussing industry trends with related statistics.	Does an adequate job discussing industry trends with related statistics.	Vaguely discusses in- dustry trends with re- lated statistics.		X 6	
D. Factors of impact	All factors that are impacted by problems listed in the scenario are addressed. (i.e. economic impact, pro- duction factors, etc.)	Some factors that are impacted by problems listed in the scenario are addressed. (i.e. economic impact, pro- duction factors, etc.)	Little or no factors that are impacted by prob- lems listed in the sce- nario are addressed. (i.e. economic impact, production factors, etc.)		X 10	
E. Identifying solutions	All solutions connect with and support in- dustry best practices.	Some solutions con- nect with and support industry best practices.	Solutions do not con- nect with and do not support industry best practices.		X 10	
F. Implementa- tion of solutions	All solutions are cor- rectly prioritized for implementation; pro- vides complete justifi- cation for the imple- mentation process.	Few solutions are cor- rectly prioritized for implementation; pro- vides little justification for the implementation process.	Solutions are incorrect- ly prioritized for im- plementation; provides no justification for the implementation pro- cess.		X 6	
G. Conclusion	Provides a summary statement that provides a clear and concise overview of the topic area.	Provides a summary statement that provides a vague overview of the topic area.	Provides a summary statement that has little relevance to the topic area.		X 2	
		·	·	То	tal Points	

Dairy Cattle Evaluation and Management Team Activity Communication Scorecard (200 points)

State:

Indicators	Very strong evidence skill is present 5-4	Moderate evidence skill is present 3-2	Strong evidence skill is not present 1-0	Points Earned	Weight	Tota Score
A. Examples	 Examples are vivid, precise and clearly explained. Examples are original, logical and relevant. 	 Examples are usually concrete, some- times needs clarification. Examples are effective, but need more originality or thought. 	 Examples are abstract or not clearly defined. Examples are sometimes confusing, leaving the listeners with questions. 		X 4	
B. Speaking without hesitation	Speaks very articulately without hesi- tation. • Never has the need for unneces- sary pauses or hesitation when speaking.	 Speaks articulately, but sometimes hesitates. Occasionally has the need for a long pause or moderate hesitation when speaking. 	 Speaks articulately, but frequently hesitates. Frequently hesitates or has long, awkward pauses while speak- ing. 		X 4	
C. Tone	 Appropriate tone is consistent. Speaks at the right pace to be clear. Pronunciation of words is very clear and intent is apparent. 	 Appropriate tone is usually consistent. Speaks at the right pace most of the time, but shows some nervousness. Pronunciation of words is usually clear, sometimes vague. 	 Has difficulty using an appropriate tone. Pace is too fast; nervous. Pronunciation of words is difficult to understand; unclear. 		X 4	
D. Being detail-oriented	 Is able to stay fully detail-oriented. Always provides details which support the issue; is well orga- nized. 	 Is mostly good at being detail-oriented. Usually provides details which are supportive of the issue; displays good organizational skills. 	 Has difficulty being detail-oriented. Sometimes overlooks details that could be very beneficial to the issue; lacks organization. 		X 4	
E. Speaking unrehearsed	 Speaks unrehearsed with comfort and ease. Is able to speak quickly with organized thoughts and concise answers. 	 Speaks unrehearsed mostly with comfort and ease, but sometimes seems nervous or unsure. Is able to speak effectively, has to stop and think and sometimes gets off focus. 	 Shows nervousness or seems unprepared when speaking unrehearsed. Seems to ramble or speaks before thinking. 		X 4	
F. Connecting and articulating facts and issues	 Exemplary in connecting facts and issues and articulating how they impact the issue locally and globally. Possesses a strong knowledge base and is able to effectively articulate information regarding related facts and current issues. 	 Sufficient in connecting facts and issues and articulating how they impact the issue locally and globally. Possesses a good knowledge base and is able to, for the most part, articulate information regarding related facts and current issues. 	 Has difficulty with connecting facts and issues and articulating how they impact the issue locally and globally. Possesses some knowledge base but is unable to articulate infor- mation regarding related facts and current issues. 		X 4	
G. All team members participated	• All team members took an active role in the presentation.	• Three team members took an active role in the presentation.	• Two or less team members took an active role in the presentation.		X 4	
Non-verbal Cor	nmunication—60 points					
A. Attention (eye contact)	 Eye contact constantly used as an effective connection. Constantly looks at the entire audience (90-100% of the time). 	 Eye contact is mostly effective and consistent. Mostly looks around the audience (60-80% of the time). 	 Eye contact does not always allow connection with the speaker. Occasionally looks at someone or some groups (less than 50% of the time). 		X 3	
B. Manner- isms	Does not have distracting mannerisms that affect effectiveness. • No nervous habits.	 Sometimes has distracting mannerisms that pull from the presentation. Sometimes exhibits nervous habits or ticks. 	 Has mannerisms that pull from the effectiveness of the presentation. Displays some nervous habits – fidgets or anxious ticks. 		X 3	
C. Gestures	 Gestures are purposeful and effective. Hand motions are expressive and used to emphasize talking points. Great posture (confident) with positive body language. 	 Usually uses purposeful gestures. Hands are sometimes used to express or emphasize. Occasionally slumps; sometimes negative body language. 	 Occasionally gestures are used effectively. Hands are not used to emphasize talking points; hand motions are sometimes distracting. Lacks positive body language; slumps. 		X 3	
D. Well- poised	 <i>Is extremely well-poised.</i> Poised and in control at all times. 	Usually is well-poised. • Poised and in control most of the time; rarely loses composure.	Isn't always well-poised. Sometimes seems to lose composure. 		X 3	

Sample Dairy Herd Evaluation Data Sheet

	q-x		Te	st Day P	Test Day Production				1	Current	Current Lactation					:	Mature Ed	quivalent.			PTA	:
scc date bred	Ηd	BCS	milk	fat %	protein pe %	pers	s s	s \$value c	Cow IS	code o	days age@ bred_calving	#	days in	milk	fat #	# prot n	prot milk fat prot # # # #	t prot #		Rel. Value	milk	\$\$\$
1000's	OP			2	2		s				0		milk									
1-3	2 0									ø	0 6-9	5	180	16180	551	457	21290	725	607	93	+632	+74
67		2.5	26.4	4.3	2.5		2	3.43	349 4-22	-	0 5-9	4	20	840	38	22	12130	486	331	55	+1131	+94
974 11-12	2 P	4.5	42.2	3.4	3.4	84	9	5.74		-	181 6-7	5	337	18570	692	611	17120	643	564	76	+113	+14
8-3	3 P	4.0							377 3-5	9	282 6-3	5	359	28590	983	946	25490	857	832	114	+353	+40
00		2.0	81.9	3.8	3.0	83	0	11.13	402 3-5	-	0 4-10	33	99	6940	286	213	18810	751	598	85	+2118	+276
81 2-19	2 P	1.5	90.7	3.0	2.8	83	3	12.12	404 11-19	-	82 4-5	3	174	19400	658	549	27490	897	790	120	+1932	+209
2267 3-9	2	1.0	92.8	3.1	2.9	120	00	12.46	405 11-23	-	64 4-5	3	170	19280	626	546	27770	686	798	121	+2134	+216
38 1.29	6 P	3.5	55.2	3.3	3.6	91	2	7.48	419 6-9	-	103 3-5	2	337	26150	907	875	26950	931	874	119	+1362	+152
223 1-2		3.5	43.9	2.4	3.0	69	4	5.70	420 8-8	-	130 3-7	2	277	22600	643	629	26800	750	763	114	+2096	+198
2-16	4								428 4-25	00	54 3-3	2	262	18570	618	618	23360	779	762	102	+1339	+157
122 1-4	2 P	4.0	31.7	5.8	4.1	75	3	4.79	430 9-10	-	128 3-3	2	244	14960	683	526	18570	856	639	86	+782	+114
77 2-20	3	3.5	48.9	3.4	3.4	61	3	6.66	431 9-23	-	81 3-2	2	231	16780	712	540	22050	899	688	100	+1618	+203
37 3-31	3 0	3.0	61.3	2.5	3.1	62	2	8.00	432 11-17	-	0 3-2	2	176	16120	531	482	23870	734	704	103	+1694	+170
130 2-24	2 0	2.5	68.0	4.4	3.5	125	ŝ	9.68	433 10-2	-	0 3-1	2	222	17700	705	586	24310	970	784	110	+1172	+194
9-20	4	5.0							434 4-28	9	234 2-5	-	455	23190	922	786	22570	800	689	89	+1676	+191
22 1-10	1 P	2.0	86.9	4.0	3.5	112	-	12.16	435 11-21	-	122 3-2	2	172	16970	663	558	27460	1066	890	123	+1412	+176
166 2-11	1 P	2.0	96.8	2.8	3.3	94	4	12.81	437 11-12	-	90 3-1	2	181	18770	583	608	30060	893	959	129	+1799	+200
6		2.0	106.6	3.7	3.0	101	0	14.42	439 3-8	-	0 3-3	2	65	7370	290	221	23870	903	724	107	+1896	+189
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9-17		3.5							450 4-2	9	238 2-1	-	288	13380	417	387	17560	548	492	76	+1406	+120
22 2-5		3.0	64.9	3.3	3.0	94	-	8.79	452 10-4	2	0 2-2	-	220	14390	492	428	22370	745	656	98	+1979	+209
27 2-4	2 0	2.5	51.4	3.6	3.1	84	-	7.06	453 10-7	2	0 2-2	-	217	14450	488	431	21610	727	634	95	+1779	+182
17 12-24		2.5	63.0	3.5	3.2	90	0	8.61	455 10-9	2	139 2-0	-	215	14800	603	481	23600	919	751	106	+2133	+215
19 3-1		2.0	76.4	3.4	3.3	109	-	10.40	460 11-20	2	72 1-11	-	173	13090	492	406	25730	925	792	114	+2200	+239
75 1-7		2.5	66.3	2.8	3.0	94	3	8.77	461 10-31	2	125 1-10	-	193	14300	394	424	25470	703	763	109	+1911	+192
21 2-6		4.0	26.9	3.9	3.5	61	-	3.75	463 9-30	5	95 1-9	-	224	10570	414	344	16300	639	517	73	ΥN	
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55 1-15	1 P	3.0	47.0	4.2	4.0	116	. 6	6.63	526 10-30	- 6	117 2-4	-	194	9340	395	365	15800	652	609	72	+1792	+217
199 1-20	1 P	3.0	47.4	3.9	3.3	113	4	6.60	527 10-31	0	112 2-4	-	193	9350	375	307	15910	621	516	7	+694	+82
548 4-13		2.5	56.0	3.3	3.4	98	5	7.59	528 10-4	2	29 2-3	-	220	15360	504	528	22730	730	769	66	+1536	+183
9 2-6	2 P	1.5	82.9	3.1	3.4	100	0	11.13	529 10-7	2	95 2-3	-	217	16090	566	546	25790	857	860	113	+1452	+179
39 1-6	1 P	2.0	74.9	3.1	3.5	93	2	10.05	530 10-11	2	126 2-3	-	213	15770	530	545	25080	804	853	109	+1325	+156

Appendix A: AFNR Career Cluster Content Standards

Performance Measurement Levels	Event Activity Addressing Measurement	Related Academic Standards
ABS.07.02. Performance Indicator: Develop a production a plan.	nd operational	Language Arts: 4, 5, 6 and 12
ABS.07.02.01.b. Evaluate the components of a production and operational plan and then revise an existing plan.	team activity	
ABS.07.02.02.a. Identify common resources needed to operate a production facility.	team activity	
ABS.07.03. Performance Indicator: Utilize appropriate tech mine the most likely strengths, weaknesses and inconsisten ness plan and relate these to risk management strategies.	niques to deter- cies in a busi-	Language Arts: 12
ABS.07.03.01.b. Describe approaches to use in revis- ing a business plan for improved consistency and realism.	team activity	
AS.01.01. Performance Indicator: Evaluate the developmentions of animal origin, domestication and distribution.	t and implica-	Science: C3 Social Studies: 7h
AS.01.01.02.a. Define major components of the animal industry.	exam	
AS.02.02. Performance Indicator: Apply principles of comp and physiology to uses within various animal systems.	parative anatomy	Science: C1, C5 and F2
AS.02.02.01.c. Explain how the components and systems of animal anatomy and physiology relate to the production and use of animals.	team activity	
AS.02.03. Performance Indicator: Select animals for specific maximum performance based on anatomy and physiology.	ic purposes and	Science: C5
AS.02.03.01.c. Evaluate and select animals to max- imize performance based on anatomical and physio- logical characteristics that affect health, growth and reproduction.	evaluation	
AS.02.03.02.c. Develop efficient procedures to pro- duce consistently high-quality animals, well suited for their intended purposes.	team activity	
AS.03.01. Performance Indicator: Prescribe and implement and treatment program for animal diseases, parasites and ot		Science: C4, F1 and F5
AS.03.01.02.a. Identify common diseases, parasites and physiological disorders that affect animals.	exam, team activity	
AS.03.01.03.b. Evaluate preventive measures for controlling and limiting the spread of diseases, parasites and disorders among animals.	team activity	

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AS.03.02. Performance Indicator: Provide for the biosecu animals and production facilities.	rity of agricultural	Science: F5 and F6 Social Studies: 9d
AS.03.02.01.a. Explain the importance of biosecurity to the animal industry.	exam	
AS.03.02.01.b. Discuss procedures at the local, state and national levels to ensure biosecurity of the animal industry.	team activity	
AS.04.01. Performance Indicator: Formulate feed rations nutritional needs of animals.	to provide for the	Math: 1C and 6B Science: A4 and C5
AS.04.01.01.b. Determine the relative nutritional value of feedstuffs by evaluating their general quality and condition.	exam	
AS.04.01.01.c. Select appropriate feedstuffs for animals based on factors such as economics, diges- tive system and nutritional needs.	team activity	
AS.04.01.02.a. Explain the importance of a balanced ration for animals.	exam	
AS.04.01.02.b. Appraise the adequacy of feed rations using data from the analysis of feedstuffs, animal requirements and performance.	team activity	
AS.04.02. Performance Indicator: Prescribe and administer additives and growth promotants in animal production.	er animal feed	Science: C5
AS.04.02.01.b. Discuss how feed additives and growth promotants are administered and the precautions that should be taken.	exam, team activity	
AS.05.01. Performance Indicator: Evaluate the male and t tive systems in selecting animals.	female reproduc-	Science: C1 and C3
AS.05.01.01.a. Explain the male and female reproductive organs of the major animal species.	exam	
AS.05.02. Performance Indicator: Evaluate animals for br and soundness.	eeding readiness	Science: C6
AS.05.02.02.c. Treat or cull animals with reproductive problems.	exam, team activity	

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AS.05.03. Performance Indicator: Apply scientific principles i and breeding of animals.	n the selection	Math: 6C Science: A4, C2 and E2
AS.05.03.01.c. Select a breeding system based on the principles of genetics.	team activity	
AS.05.03.02.c. Select animal breeding methods based on reproductive and economic efficiency.	team activity	
AS.05.03.03.a. Explain the use of quantitative breeding values (e.g., EPDs) in the selection of genetically superior breeding stock.	exam	
AS.05.03.03.c. Select animals based on quantitative breeding values for specific characteristics.	team activity	
AS.05.03.04.b. Explain the processes of major reproductive management practices, including estrous synchronization, superovulation, flushing and embryo transfer.		
AS.05.03.05.b. Explain the materials, methods and processes of artificial insemination.	exam, team activity	
AS.07.01. Performance Indicator: Design animal housing, equ handling facilities for the major systems of animal production.		Science: C6 and F6
AS.07.01.01.b. Critique designs for an animal facility and prescribe alternative layouts and adjustments for the safe and efficient use of the facility.	team activity	
AS.07.01.02.b. Explain how modern equipment and handling facilities enhance the safe and economic production of animals.	team activity	
AS.08.01. Performance Indicator: Reduce the effects of anima the environment.	l production on	Science: C4 and F4
AS.08.01.01.a. Evaluate the effects of animal agriculture on the environment.	exam	
AS.08.01.01.b. Outline methods of reducing the effects of animal agriculture on the environment.	team activity	
AS.08.02. Performance Indicator: Evaluate the effects of envir conditions on animals.	ronmental	Science: C6 and F4
AS.08.02.01.a. Identify optimal environmental conditions for animals.	exam	
AS.08.02.01.b. Describe the effects of environmental conditions on animal populations and performance.	team activity	
CS.01.05. Performance Indicator: Awareness: Desire purposef ing related to professional and personal activities.	ful understand-	Language Arts: 1 Social Studies: 1e, 4e, 10b and 10j
CS.01.05.01.c Articulate current issues that are important to the local, state, national and global communities.	presentation	

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CS.02.02. Performance Indicator: Social Growth: Interact we manner that respects the differences of a diverse and change		Language Arts: 12 Social Studies: 1e
CS.02.02.02.c. Present oneself appropriately in various settings.	presentation	
CS.02.05. Performance Indicator: Emotional Growth: Demo responses to one's feelings.	onstrate healthy	Social Studies: 4a
CS.02.05.03.c. Exhibit self confidence while in the workplace.	presentation	
CS.03.01. Performance Indicator: Communication: Demonstern and verbal skills.	strate oral, writ-	Language Arts: 4, 5 and 12
CS.03.01.01.c. Demonstrate technical and business writing skills to communicate effectively with co-workers and supervisors.	written plan	
CS.03.01.03.c. Make effective business presentations.	presentation	

Appendix B: Related Academic Standards

National academic standards for mathematics, science, English language arts and social studies related to this event are reported below. The statements are based on information in reports of the respective associations/organizations in the academic areas. Some adjustment of numbering was done to facilitate the process of alignment with the standards that have been developed in the pathways of the Agriculture, Food and Natural Resources (AFNR) Career Cluster.

The approach was to determine the presence of alignment between the content standards, expectations or thematic strands of the four academic areas and the performance indicators of the AFNR Standards. Supporting statements have been included to clarify content of the respective content standards, expectations or thematic strands. The statements were initially developed independently by the respective organizations and, therefore, are not parallel in wording and presentation. Occasionally minor editing was done to adjust the background or stem of a statement but not the statement itself.

Mathematics

- 1. Standard and Expectations: Number and Operations
 - 1C. Compute fluently and make reasonable estimates.
- 6. Standard and Expectations: Problem Solving
 - 6B. Solve problems that arise in mathematics in other contexts.
 - 6C. Apply and adapt a variety of appropriate strategies to solve problems.

Science

- A. Content Standard: Science as an Inquiry
 - A4. Formulate and revise scientific explanations and models using logic and evidence.
- C. Content Standard: Life Science
 - C1. The cell.
 - C2. Molecular basis of heredity.
 - C3. Biological evolution.
 - C4. Interdependence of organisms.
 - C5. Matter, energy and organization in living systems.
 - C6. Behavior of organisms.
- E. Content Standard: Science and Technology
 - F4. Environmental quality.
 - F5. Natural and human-induced hazards.
 - F6. Science and technology in local, national and global challenges.
 - E2. Understanding about science and technology.
- F. Content Standard: Science in Personal and Social Perspectives
 - F1. Personal and community health.
 - F2. Population growth.

English Language Arts

4. Students adjust their use of spoken, written and visual language (e.g., conventions, style, vocabulary) to communicate effectively with a variety of audiences and for different purposes.

5. Students employ a wide range of strategies as they write and use different writing process elements appropriately to communicate with different audiences for a variety of purposes.

6. Students apply knowledge of language structure, language conventions (e.g., spelling and punctuation), media techniques, figurative language and genre to create, critique and discuss print and non-print texts.

12. Students use spoken, written and visual language to accomplish their own purposes (e.g., for learning, enjoyment, persuasion and the exchange of information).

Social Studies

7. Thematic Strand: Production, Distribution and Consumption

7h. apply economic concepts and reasoning when evaluating historical and contemporary social developments and issues;

Appendix C: Dairy Cattle Evaluation and Management Team Activity Example Scenario

Directions: Please read the dairy farm management scenario and supplemental information provided for the scenario, identify problems and determine possible improvements. Your team should assume the role of a hired consultant advising the producer (judges). Then, you have 10 minutes to respond orally to the judges. Your team has 40 minutes to prepare your recommendations to be presented to a panel of judges. It is not necessary to describe the scenario to the judges since they are the producer. Teams will be allowed 10 minutes to present their recommendations, followed by 5 minutes of clarifying questions from the judges.

You will be provided with an additional worksheet to assist you with your presentation. This worksheet will be turned in to the judges after the completion of your presentation and responses to the judges' questions. All four team members are expected to participate in the oral presentation. You may make and take notes for the presentation.

This scenario, your responses and evidence of team work are worth 600 points (400 points on content and 200 points on communication).

Scenario: A dairy producer in Western Kentucky calls you indicating he is having some production problems with his dairy herd. Unfortunately, budget constraints have dictated that you will be unable to visit his herd in person. You do have access to his DHI records, however. Using the DHI-202 Herd Summary below, answer the following questions.

- 1. Production (Provide data/numbers to support your observations).
 - Using standardized 150 day milk, describe any trends you observe with regard to seasonality of milk production.
 - Discuss what might contribute to these differences.
 - Examine peak milk and summit milk trends by age group and describe any differences you observe. Are these differences what you would expect?
 - Describe the difference between peak milk and summit milk.
- 2. Mastitis/Somatic Cell Count
 - Describe any trends you see in somatic cell count by month.
 - What factors might contribute to this trend?
 - Cows with a somatic cell score >3.9 percent are generally considered to be experiencing some level of infection. Using this cut-off, what percentage of this herd had some type of infection during the November 2009 test day?
 - What is the value (\$) of the unrealized milk production resulting from somatic cell count during the current test period?

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-		76	81	61	47	69		NUMBER	BER AVG.							DIFFE	DIFFERENCE		ACC -		% COWS	WS SCC SCORE	CORE	
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	e.			4.1	4.2	4.0		COWS	NOW SN	i	_	MILK	FAT	PROTEIN	IN MILK		FAT	PROTEIN	WEIGHT	142,000	142,000-	284,000-	1, 130,000-	1,130,00
LAGT PROT To	3.6			3.6	3.5	3.6	1ST LACT		34 26	5 78		72 23004	4 742	669 3		+1553	6+	+45	1190	48	ŋ	14	19	14
2ND FAT %		3.7	3.1	3.9	4.4	3.9	2ND LACT		28 41	93		84 23739	9 821	724		+2557	+95	+69	1350	41	თ		18	32
LAGT PROT 74		3.3	3.2	3.3	3.7	3.4	3+ LACTS		41 61	96		85 21248	8 766	699 9		-457	+43	+3	1400	47	19	14	3	17
34 FAT %	4	4.2	3.4	4.2	5.0	4.2	ALL ALLATIONS		103 45	5 88	8 81	1 22571	1 775	969 9		+1113	+46	+37	1320	46	13	10	11	20
PROT. LACTS PROT "	3.1	3.2	3.2	3.4	3.9	3.4																10000		
ALL FAT TH	100	100	3.3	4.1	4.5	4.1							YEARLY	2.11	SUMMARY		OF CC	COWS	ENTERED		AND LE	LEFT T	THE HI	HERD
LACTS PROT 7	3.2	3.3	3.2	3.5	3.7	3.4			DRY	COW PROFILE	PROF	ILE	COWS	s	COWS			Z	NUMBER OF		COWS LEFT THE HER	HERD		
TOAL TEI	639			637	645	639		NUN		_	NUMBER	R NUMBER	HER			- 1	DAIRY LOW	V REPO.	O. MAST	UDDFR	FEET & O	OR DIS-	usin .	NOT
2ND LACT		238	1721	1618	580	1016		PER	PERIODS DRY	40 DAYS	s DAYS	70 DAYS	NUM.	×	NUM.	*	_				LEGS OT	OTHER EAS	-	-
ACT 3+ LAUTS			104		1837	472	1ST LACT	cr	_				42	38	14	13	-	-	4	٦	_	3	3	
ALL LACTS	312	284	532	827 1	1002	648	2ND LACT		26 73	3 2	15		4	4	10	Ø	-	-	2			-	D	
SCC NUMBER	ß	9	4	14	12	41	3+ LACTS		_	7 3	18	18	2	2	16	15	-	+	2 4		_	2	3 3	
E PERCENT	45	50	40	50	57	50	ALL LACTATIONS		65 75		33	27	48	44	40	36	3	3	8 4	1		9	4 11	
WEIGHTED SCC (NEAREST	SCC (I	NEARES.	T 1,000)	(00)		X	YEARLY		PRODUCTION		AND M	MASTITIS	SUMMARY	MAR	_	34 %	% LEFT HERD FOR INVOLUNTARY REASONS	FOR INVO	ILINTARY I	EASONS				
DATE		NUMBER		TEST DAY AVERAGES	AGES	STANDARD-	1.	-	TESI	1000	RAGES			ROLLING	ROLLING YEARLY	ľ		S DOWS	SDC SCORE	COUNT SUN	131			NUMBER
	TEST	HERD ON	P	LKING CO	(SMO)	150 DAY	PERSIST.	T. % IN	-	INIT COWS	S EAT	* 0001	A			- AND	0,1,2,J BBLOW	4 142,000	5 284,000 566	6 7,8,9 566,000- DVER	SCC	ACTUAL	- 1	HEHD
IESI PRODUCT		TEST DAY	-		-	WILK	1	WII					A ILLA	+	+	+			1 000 1	1.13		100	_	SOLU
	2/2	CR.					-				3.0			+	+	t	640	2		_	'n.			0
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80-12-4	17	0 			13.1	19.0	_			04.8	с. С. С	100		3		-	00	ה מ	- (n' '		-	
5-27-09	36	115			72.0	17.	-						17965	22	609	576	43	3	0	0	4			
7-01-09	35	111			63.5	70.5	1	88		56.3	3.0	3.0	18169	66	616	577	41	13	13	1	4	2 851	-	3
7-28-09	27	110			63.2	71.4	_			10.0	34		18474	4	628	583	40	13	0		4.	-		
60-60-6	43	107	219		60.4	72.	7 106	85		51.3	3.5	3.2	18761	5	646	589	32	18	13	13 24	4.	8 907	-	2
10-06-09	27	105	227		62.3	74.	2 105			55.5	3.8	3.3	19186	36	663	602	37	16	2	11 29	4	6 1057	2	
11-04-09	29	103	_		63.6			80		50.3		1.1.1	19589	39	682	616	46	13		11 2(4	1 653		S
AVERAGES	35	110	200		0 00	00	a 10.4											1	c		1			00
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ds (N=73) with at least 100 c 50th 19388.6 702.4	Percentile 75th	
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19388.6		054
		95th
702.4	21482.4	24494.6
	778.4	887.8
595.4	657.4	746.6
59.0	65.6	75.1
66.2	72.4	81.3
82.1	90.3	102.2
87.4	95.9	108.1
71.8	78.5	88.2
88.8	98.2	111.7
95.2	103.7	115.9
21502.8	23491.3	26352.0
67.6	75.2	86.0
		163.4
		22.4
		11.3
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		83.8
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Dairy Cattle Evaluation and Management Team Activity Worksheet

Please turn worksheet over to complete page 2

Dairy Cattle Evaluation and Management Career Development Event $\ 18$

Problems or Opportunities Identified	Relevant Data and Supporting Facts	Proposed Solutions
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.
5.	5.	5.