Managing Through Stress: A Livestock Information Event

Iowa State University Extension and Outreach (ISUEO) and Iowa Farm Bureau Federation (IFBF) have co-sponsored the program to be held at 14 sites throughout the state.

General session speakers:
Chad Hart, ISUEO crop economist; Lee Schultz, ISUEO livestock economist; Elwynn Taylor, ISUEO climatologist; Michael Rosmann, Ag Behavioral Health and Sterling Liddell, Rabo AgriFinance.

Recordings of the general session speakers and their slides will be posted on the following websites within a couple of days:
- Iowa Farm Bureau Federation www.iowafarmbureau.com (look for Managing Through Stress picture)
- ISUEO, Dealing with Disasters: www.extension.iastate.edu/topic/recovering-disasters/
- Plus other ISUEO websites

Each meeting site is being hosted by an ISUEO livestock specialist who will lead the afternoon discussion that may focus on beef, dairy or swine industry. For your awareness, this handout highlights the management considerations that are important to each species. The lingering impacts of the 2012 drought combined with the uncertainty of future weather and pricing may challenge our farms, businesses and families.

Please contact your area ISUEO livestock specialist if you have any questions.

### Water Availability – potential issue for all species

There are two key areas of concern related to water; quantity and quality.

**Quantity:** First, estimate your water demand.
* If your well can supply enough water for the day, but not on a minute by minute basis, a surge tank may provide the solution, but requires on-site storage and alternate pumping system.
* If your well cannot supply enough water for the day, you can look for alternate sources of water.

1. Another well on the same site may be an option for a very limited number of operations, if water and drillers are available.
2. Rural water may be an option if a supply line is nearby, but connection fees and purchase price may be significant.
3. Hauled water may be an option, but requires hauling equipment and on-site storage and alternate pumping equipment, and sanitation is an issue. Be sure to NEVER haul human or livestock drinking water in tanks that have hauled fertilizer or pesticides. Tanks cannot be washed well enough to remove all residues.
4. Surface water – you might be able to improve efficiency of water use from surface water used for watering grazing livestock by pumping water from the surface water to a tank for drinking. Pumping water into an existing well from surface water is not efficient and could contaminate your well.
5. Water conservation practices can help reduce the risk that you run out of water.
6. Check into program through FSA to help develop water resources.

**Quality** issues tend to focus on blue green algae. Blue-green algae blooms can be stimulated following storms when surface runoff containing phosphorus and nitrogen enters receiving waters. Techniques to reduce blue-green algae include
installing an aeration device, reducing nutrient runoff into the water, reducing nitrogen and phosphorus fertilizer applications and establishing vegetated buffer strips, and algaecides such as copper sulfate.

**Beef - Iowa Beef Center**  [www.iowabeefcenter.org](http://www.iowabeefcenter.org)

1. **Pasture status and management:** Many producers have concerns about productivity of pastures that were overgrazed due to last year’s drought. It may still be too early to make any firm decisions, but you should definitely have several alternative plans in mind depending on the weather we receive from now to spring. Pastures that were severely overgrazed will likely need some renovation. This may vary from fertilizer and interseeding to destroying the current vegetation and starting with a new establishment. Pastures that were overgrazed for the summer but allowed to regrow ungrazed during the fall rains may only need some fertilizer and a chance to start growing. Without adequate spring moisture, additional pasture improvements may not be profitable and alternative summer feeding options may need to be considered until adequate rainfall is available. A current plan of action might include:

   - Make a plan for severely limited forage/grazing or moderately limited due to drought and consider the effects if it occurs early or late or lasts through the grazing period.
   - Determine what kind of forage production you would normally have with normal precipitation and determine how much less forage would be available with limited precipitation.
   - Develop alternative feeding plans should the pasture not be available.
   - Develop plan for frost seeding/interseeding methods and species now, in case it is needed.
   - Develop a rotational grazing plan to provide needed pasture rest and improve utilization of the forage grown.
   - Resources available on pasture renovation can be found at: [http://www.iowabeefcenter.org/forages_grazing.html](http://www.iowabeefcenter.org/forages_grazing.html)

Without additional rain, some cattlemen will be forced to feed additional supplementation on pasture to maintain the cow’s body condition, or even remove the cattle from the pasture and drylot for a while. Anyone needing help with rations during confinement should contact their beef specialists.

2. **Alternative forages and feeds:** Can we get forage production from annual forages with limited precipitation? Obviously it depends on adequate rainfall and moisture for them to germinate and grow. However a decision to devote some acres to these annual forages would likely need to be made before you know how much rain we are going to get. Some options might include:

   - Spring cereals (oats, triticale, barley) with or without legumes (field peas) or brassicas (radish, turnips) - Seeded April and ready to graze mid-to-late-June
   - Annual ryegrass – Seeded early spring and grazed mid-summer
   - Sorghums, sudangrass & millets – Seeded June to July and ready to graze July to August
   - Fall seeded cereals with or without brassicas (radish or turnips) - Seeded August to September and grazed October and the following early spring

All of these options could be chopped for winter feed as well as grazed for summer feed.

**ISUEO Beef Field Specialist Contacts:**

**NW IA:** Beth Doran  
Orange City, IA  
**Phone:** 712.737.4230  
**Cell Phone:** 712.395.0280  
[doran@iastate.edu](mailto:doran@iastate.edu)

**NC IA:** Russ Euken  
Garner, IA  
**Phone:** 641.923.2856  
**Cell Phone:** 641.231.1711  
[reuen@iastate.edu](mailto:reuen@iastate.edu)

**NE IA:** Denise Schwab  
Vinton, IA  
**Phone:** 715.737.4230  
**Cell Phone:** 712.540.2304  
[dschwab@iastate.edu](mailto:dschwab@iastate.edu)

**SW IA:** Christopher Clark  
Lewis, IA  
**Phone:** 712.769.2600  
**Cell Phone:** 636.432.9437  
[caclark@iastate.edu](mailto:caclark@iastate.edu)

**SC IA:** Joe Sellers  
Chariton, IA  
**Phone:** 641.774.2016  
**Cell Phone:** 641.203.1270  
[sellers@iastate.edu](mailto:sellers@iastate.edu)

**SE IA:** Byron Leu  
Fairfield, IA  
**Phone:** 641.472.4166  
**Cell Phone:** 641.799.2298  
[bleu@iastate.edu](mailto:bleu@iastate.edu)
Although milk prices have been good recently, the forecast is for milk prices to decline. In addition, the higher feed costs are causing the income over feed cost margin to be extremely tight for most dairy producers. Consequently, long-term survival may depend on how successfully producers are able to utilize the various tools and options available to them.

Three options to consider during 2013 if forage shortages have or become an issue:

1. **Use of by-products:** A traditional ration can be modified to include less forage or concentrate by incorporating various by-products, depending on the particular situation. By-products can provide additional protein (distillers and gluten feed) or stretch available forage supplies (soy hulls, beet pulp, and whole cottonseed). By-products may be a more economical source of nutrients (lower cost per unit of protein for example) than corn or soybean meal.

2. **Reduce Animal Numbers:** If there is not enough feed to last until the next harvest season, and you want to minimize the amount of feed purchased, reducing livestock numbers is a consideration. The market for culled dairy cows has been strong and predictions are that this trend will continue for much of 2013. With milk prices starting to decline, this might be a good time to ship low producing or problem cows. Selling surplus replacement heifers may be considered if there are more available than needed to maintain herd size.

3. **Limit Feed Heifers:** This involves feeding a higher energy diet than has been common with free-choice forages, but limiting the total amount of feed offered, thus controlling average daily gain. The heifers will be very vocal for the first week or two after implementing this feeding program, but once they adjust, performance both before and after calving is not reduced. Other potential advantages of a limit feeding program are a reduction in total feed costs for rearing heifers, increased feed efficiency (lb. of feed to get a lb. of gain) and less total manure.

**ISUEO Dairy Field Specialist Contacts:**

| NW IA: Kevin Lager | NE IA: Jennifer Bentley | NE/SE IA: Larry Tranel |
| Orange City, IA    | Decorah, IA             | Dubuque, IA            |
| Phone: 715.737.4230 | Phone: 563.382.2949    | Phone: 563.583.6496   |
| Cell Phone: 712.540.2304 | Cell Phone: 563.419.4469 | Cell Phone: 563.590.7025 |
| klager@iastate.edu | jbentley@iastate.edu   | tranel@iastate.edu    |

**ISUEO State Dairy Specialist Contacts (on campus):**

| Leo Timms         | Lee Kilmer              |
| Orange City, IA   | Iowa Falls, IA         |
| Phone: 515.294.4522 | Phone: 515.294.4641    |
| Cell Phone: 515.290.7190 | Cell Phone: 515.290.5321 |
| ltimms@iastate.edu | lhkilmer@iastate.edu |

**ISUEO Agricultural Engineering Field Specialist Contacts:**

| NW IA: Kris Kohl | C IA: Kapil Arora        | NE IA: Dan Huyser        |
| Storm Lake, IA   | Nevada, IA              | Nashua, IA               |
| Phone: 712.732.5056 | Phone: 515.382.6551      | Phone: 515.298.1731      |
| kkohl1@iastate.edu | pbtiger@iastate.edu    | dehuyser@iastate.edu    |

| SW IA: Shawn Shouse | SE IA: Greg Brenneman |
| Lewis, IA          | Iowa City, IA         |
| Phone: 712.769.2600 | Phone: 319.337.2145   |
| sshouse@iastate.edu | gregb@iastate.edu |

**ISUEO Farm Management Field Specialist Contacts:**

| NW: Melissa O'Rourke | CW: Shane Ellis        | NC: Kelvin Leibold        | NE: Kristen Schulte      |
| Orange City, IA     | Carroll, IA            | Iowa Falls, IA           | Cresco, IA              |
| Phone: 712.737.4230 | Phone: 712.792.2364    | Phone: 641.648.4850      | Phone: 563.547.3001    |
| morourke@iastate.edu | shanee@iastate.edu    | kleibold@iastate.edu      | kschulte@iastate.edu    |

| SW: Tim Eggers | CC: Steve Johnson    | CE: Ryan Drollett        | SE: Bob Wells          |
| Clarinda, IA    | Altoona, IA         | Iowa City, IA           | Oskaloosa, IA         |
| Phone: 712.542.5171 | Phone: 515.957.5790   | Phone: 319.337.2145     | Phone: 641.673.5841   |
| teggers@iastate.edu | sjohns@iastate.edu  | drollett@iastate.edu     | wellsjb@iastate.edu   |
Understanding your pig flow and potential changes in pig flow will help estimate corn needs and evaluate profit or minimize negative returns until reaching the next crop. Weather and price uncertainty may challenge management and feed sourcing beyond the fall of 2013. Improving production efficiencies can make an immediate benefit while pig flow changes can make short to long term changes. A current plan of action might include reviewing:

**General**

- Pig flows and grain requirements until November 2013 (or beyond?) – quantify your needs, physical supply of grain/feed in addition to price risk management may be important
- Use your own information/records and make sure you make decisions based on comparable/reliable data
- Water Conservation: Cups/bowls may save 31% more than nipple drinkers; visually check for leaks (water drops add up); reduce wash time and wash water used with dry clean-up/initial scrap practices.

**Marketing and risk management**

- With price volatility, continually monitoring and managing margin (potential return over feed cost)
- Understand how seasonal market price relates to pig flow, market weight and profit potential
  - Bred: Feb (now) ➔ Farrow: End of May ➔ Mkt: Nov = “lower” profit potential
  - Bred: mid Sept ➔ Farrow: Dec ➔ Mkt: June = “higher” profit potential
- Can you reduce sort loss or improve on getting the right pigs on the truck? How accurately can you determine weight of pigs in the barn? How do you determine/monitor when to start marketing pigs from a group?
- Understand the packer grid you are selling to and what discounts and premiums might apply

**Improving production efficiency/reducing costs**

- Adjust feeder to reduce waste
- Appropriate pig environment – temp 4°F below thermal-neutral reduce F/G by 2.8%, increase health challenge
- Selling weight – Understand net return of selling at a lighter weight (packer grid, marginal return over feed cost)
- Review Culling practices (farrow thru finish) – non-marketable pigs eat but do not generate revenue (or little of it)
- Feed manufacturing/storage – particle size (1.2% improved F/G per 100 micron reduction), quality control
- Alternative ingredients – opportunity?, generally priced relative to corn, available supply, consistent quality, logistics, typically need to purchase in larger quantities
  - *Specifically for farrowing*
    - Review Weaning weight/age = Sow feed versus starter feed cost and quantity, performance of older pigs
    - Body condition of sows – instead of a condition score of 3 (average) 2+ (slightly below)
    - Pig flow/reducing numbers – if margins are negative producing more pigs does not help. With volatility in prices timing of this strategy is critical so that you do not miss profit opportunities
    - Skip breeding? – shoot for missing low market selling months
    - Decrease or depop. sow herd –herd health challenges/ poor performance, time to clean up?

**Additional Swine Resources:**

- Iowa Pork Industry Center [http://www.ipic.iastate.edu/](http://www.ipic.iastate.edu/)
  - Webinar recording from Aug. 28, 2012
  - Webinar recording from Dec. 10, 2012

**ISUEO Swine Field Specialist Contacts:**

NW IA: Dave Stender
Cerokkee, IA
Phone: 712.225.6196
dstender@iastate.edu

NC IA: Russ Eucken
Garner, IA
Phone: 641.923.2856
reuken@iastate.edu

NE IA: Mark Storlie
Fayette, IA
Phone: 563.425.3331
mstorlie@iastate.edu

SW IA: Matt Swantek
Arcadia, IA
Phone: 712.371.2856
mswantek@iastate.edu

SC IA: Terry Steinhart
Sigourney, IA
Phone: 641.622.2680
tsteinha@iastate.edu

SE IA: Tom Miller
Washington, IA
Phone: 319.653.4811
tmiller@iastate.edu

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