

Beef Breeds
by
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HIGH CONCENTRATE FEEDLOT DIETS

High concentrate — and therefore high energy — feedlot diets are used in a variety of cattle feeding programs. Many Pennsylvania farmer-feeders routinely use silage and haylage at up to 50-60 percent of the dry matter in feedlot diets, because of the economics of using their land to produce feed energy.

An exception in our area to this high forage feeding regime is when feeding Holsteins and some "exotic" type cattle for speciality markets.

Research has shown that cattle can be fed to 95-100 percent of the dry matter intake as grain, and it can be economical to do so. A recent report from Cornell (Traxler et al, 1995) has shown that in rations containing hay crop silage, pelleted roughage, or no roughage fed to Holsteins, the most economical to feed were those with no roughage.

Other work has shown with con-

ventional beef cattle there will be a reduction in performance after 112 days on all-concentrate feeds, while even other studies have shown there are inconsistent results when adding roughage to these diets. Why the conflict?

The answer generally lies in the type of grain that is being fed. For the cow, dry corn will be digested differently than will high moisture corn, rolled wheat, grain sorghum, or cracked corn. The rumen digests part of the grain through the action of bacteria, and part of it is digested in the intestine. The relative proportion of each is determined in part by the physical form of the grain and the amount of roughage that may be present.

The Cornell study indicated that dry, whole corn may in fact be treated like roughage and be ruminated like hay, thus changing the pH and form of the grain before it is digested by the bacteria in the rumen. These results allow the grain be used efficiently for growth.

Tree Association To Show Benefits Of Tree Care

WILKES-BARRE (Luzerne Co.) — On Saturday, July 29, join Vincent Cotrone, Penn State Extension urban forester; Bernie Dincher, International Society of Arboriculture (ISA) certified arborist, and members of the Northeast Pennsylvania Community Tree Association for a morning in the park, demonstrating and discussing tree care practices at the South Williamsport Area Recreation Park on East Central Avenue.

Starting at 9 a.m., interested homeowners, gardeners, municipal workers, and shade tree commission members will begin to witness an ISA certified arborist and his crew demonstrate tree climbing practices, proper tree pruning, fertilization, and the use of aerial lifts and other tree care equipment.

Participants will learn tree care tips; what to look for when hiring a professional arborist; and how the ISA maintains a voluntary, non-government certification program.

Maintenance of community trees is something often misunderstood and left up to the property owners. In many cases, when maintenance work is performed, it

is done improperly, having drastic effects on tree health. For example, homeowners fearing a tree's height will contract for the topping of their trees, which promotes decay and death. Well cared for trees are attractive and can add considerable value to your property. Poorly maintained trees can be a significant liability.

Making the decision to hire a professional tree service should not be taken lightly. Certified arborists are plant care specialists dedicated to excellence in the field of arboriculture. They are highly qualified in the care of valuable landscapes using the most up-to-date advances and proven age-old techniques.

The ISA maintains this voluntary, non-governmental certification program. To qualify as a certified arborist, an experienced plant care professional must pass an extensive examination and obtain continuing education credits while keeping abreast of new technology.

For more information contact South Williamsport Borough at (717) 322-0158 or Penn State Cooperative Extension at (717) 825-1701.

Cattle producers often ask me if it pays to grind, roll, or crack corn for cattle. The answer really has little to do with digestion kinetics. The answer must be determined by economics and feeding management.

For the Holstein feeding situation, the high concentrate ration with dry, whole corn works well for two reasons. The cattle eat the grain well and use it efficiently for gain. It also mixes well and sorting is prevented with the protein/mineral pellets generally fed to these cattle.

When grain is processed in any manner, there is a cost associated with it. Large western feedlots will often use steam flaking, rolling, or

some other process for their grain. The equipment for this type of processing is very expensive, and the incremental change in conversion and performance can be very small.

However, because these lots feed very large numbers of animals, it can be profitable to perform this processing. For feeders in our region, the small changes in performance from processing the grain may not be economical. Possible exceptions would include wheat, barley, or rye, and the cost of using these grains must include the cost of processing it. For corn, there is little economic incentive to process the grain under most conditions. This includes not only the

processing costs, but the storage and handling costs as well.

For example, if cracked corn is used 5 percent more efficiently than whole corn, this means for every 100 pounds of whole corn valued at \$3 per bushel fed, there would only be about 95 pounds of cracked corn fed to get the same results. The producer should pay no more than \$.15 per bushel to have the corn cracked.

If it costs more to store or handle the cracked grain, then the processing costs would be even less.

We are fortunate in Pennsylvania to have a variety of grains available for feeding cattle. Processing these grains has a cost that must be determined.

Angus Breeders Exhibit

(Continued from Page D3)

was Daltons Monet and she had a February 1995 bull calf at side. The February 1993 cow is sired by R&J Espresso, and the calf is sired by GAR Precision 1680.

A complete list of winners follows:

1995 Atlantic National Junior Angus Show

Timonium, Maryland
Total number shown: 221; Judge Randy Daniels, Colbert, Georgia.

Bred-and-owned heifers
46 shown

Fall Heifer Calf Champion: Dalton Lady Belle; Exhibitor: Judson Dalton, Altavista, VA.

Reserve Fall Heifer Calf Champion: Kruegers Blackbird Nadia; Exhibitor: Erin Krueger, Coatesville, PA.

Summer Heifer Calf Champion: Daltons Belle Anna; Exhibitor: Judson Dalton, Altavista, VA.

Reserve Summer Heifer Calf Champion: Kruegers Scaara Cassidy; Exhibitor: Amy Krueger, Coatesville, PA.

Spring Heifer Calf Champion: Car Don Miss Traveler B307; Exhibitor: Deanna Bloom, Westville, IN.

Reserve Spring Heifer Calf Champion: Daltons Bell Donna; Exhibitor: Douglas Dalton, Altavista, VA.

Senior Heifer Calf Champion: B&J Lady Chelsea; Exhibitor: Jason Michael, Mount Solon, VA.

Reserve Senior Heifer Calf Champion: WF Patty MAH; Exhibitor: Melissa Harrison, Woodbine, MD.

Intermediate Champion Heifer: DME Eulima Lady C2; Exhibitor: Darren Eversole, Blacksburg, VA.

Junior Champion Heifer: Daltons Monet; Exhibitor: Wynn Dalton, Altavista, VA.

Reserve Junior Champion Heifer: B&J Alexis 315; Exhibitor: Troy Jeffries, Canmer, KY.

Grand Champion Bred-and-Owned Female: Dalton Lady Belle; Exhibitor: Judson Dalton, Altavista, VA.

Reserve Grand Champion Bred-and-Owned Female: Daltons Belle Anna; Exhibitor: Judson Dalton, Altavista, VA.

Owned Heifers
108 shown

Fall Heifer Calf Champion: Champion Hill Elegant Queen; Exhibitor: Michael Roddey Jr., Travelers Rest, SC.

Reserve Fall Heifer Calf Champion: Rolling Knoll Jewel; Exhibitor: Becky Walker, Damascus, MD.

Summer Heifer Calf Champion: MT Valley Hannah; Exhibitor: Casey High, Litz, PA.

Reserve Summer Heifer Calf Champion: Davis Blackcap 4162; Exhibitor: Troy Jeffries, Canmer, KY.

Late Spring Heifer Calf Champion: Ankony Lady Lucy V284; Exhibitor: Kyle Jackson, Anderson, IN.

Reserve Late Spring Heifer Calf Champion: Whitestone Tibbie F084; Exhibitor: Jason Michael, Mount Solon, VA.

Early Spring Heifer Calf Champion: Waldeck EF Forever Lady 9407; Exhibitor: Ted Bourne Jr., Donalds, SC.

Reserve Early Spring Heifer Calf Champion: WK Sally; Exhibitor: Curt Stockdale, Dayton, PA.

Senior Heifer Calf Champion: Champion Hill Jestress 740; Exhibitor: Sonya Smith, Lebanon, TN.

Reserve Senior Heifer Calf Champion: Hayfields Nrthindr 111-315; Exhibitor: Caroline Smith, Pendleton, SC.

Intermediate Champion Heifer: JDH Miss Tessie 9304; Exhibitor: Jeff Covell, Clarksburg, MD.

Reserve Intermediate Champion Heifer: Hope Hill Shining Stone 203; Exhibitor: Duncan Mackay, Poughquag, NY.

Senior Yearling Champion Female: Kruegers Blackbird 704B; Exhibitor: Erin Krueger, Coatesville, PA.

Reserve Senior Yearling Champion Female: Mengs Miss Skymere 56B; Exhibitor: Kate Conner, Alexandria, VA.

Grand Champion Owned Female: Waldeck EF Forever Lady 9407; Exhibitor: Ted Bourne Jr., Donalds, SC.

Reserve Grand Champion Owned Female: Ankony Lady Lucy V284; Exhibitor: Kyle Jackson, Anderson, IN.

Bred-and-Owned Bulls
15 shown

Grand Champion Bull: Champion Hill Architect; Exhibitor: Neenah Hill, Bidwell, OH.

Reserve Grand Champion Bull: Southsides Bando; Exhibitor: Randolph Clary III, Brodnax, VA.

Cow-Calf Pairs
6 shown

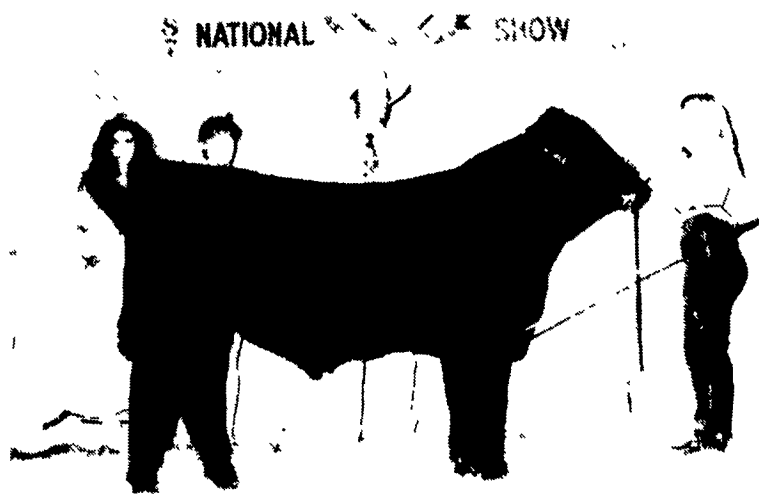
Grand Champion Cow-Calf: Kruegers Blackbird 704B; Exhibitor: Erin Krueger, Coatesville, PA.

Reserve Grand Champion Cow-Calf: Daltons Monet; Exhibitor: Wynn Dalton, Altavista, VA.

Registered Steers
46 shown

Grand Champion Steer: Bull Run ET; Exhibitor: Jeremy Brown, Boyce, VA.

Reserve Grand Champion Steer: STR JVR D05; Exhibitor: Deanna Bloom, Westville, IN.



Champion Hill Architect captured bred-and-owned grand champion bull honors at the 1995 Atlantic National Junior Angus Show held in Timonium, Md. The September 1994 son of VDAR New Trend 802 was exhibited by Neenah Hill, Bidwell, Ohio.



Judson Dalton, Altavista, Va., won grand champion bred-and-owned female honors with this fall heifer calf at the 1995 Atlantic National Junior Angus Show held in Timonium, Md. The entry is named Dalton Lady Belle and is a November 1994 daughter of GDAR Oscar 711.



Waldeck EF Forever Lady 9407 took grand champion owned female honors at the 1995 Atlantic National Junior Angus Show held in Timonium, Md. The January 1994 daughter of Waldeck Sky Traveler was also named the owned early spring heifer calf champion. The grand winner was exhibited by Ted Bourne Jr., Donalds, S.C.



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