

Corn Silage

(Continued from Page C11)

ears and has leaves that have turned brown and are falling off. Be careful not to harvest prematurely because corn with ears and some green leaves may still have the potential to resume growth and accumulate dry matter later in the season. The net energy content of drought damaged corn often is 85-100 percent of normal, and it sometimes contains slightly more crude protein. One concern with drought stressed corn is the potential for high nitrate levels in the silage. High nitrate levels are found most frequently where excessive nitrogen rates were applied and when a drought stressed crop was chopped within three days following a rain. Ensiling crops that are suspected to have high nitrate levels is preferred to green chopping, because the fermentation process will decrease nitrate levels by about 50 percent. When in doubt, obtain a forage analysis with nitrate determination before feeding the questionable forage.

Silage additives

Urea and anhydrous ammonia are the more widely used additives for whole-plant corn silage. They are used primarily to increase the crude protein content of corn silage. Anhydrous ammonia also tends to reduce protein breakdown

in the ensiled crop and may result in a higher true protein content than obtained with urea. It is not as widely available as urea. Preferably, additions of these nonprotein nitrogen compounds (NPN) should be limited to the amount necessary to raise the crude protein content from about 8.5 percent to 13 percent, measured on a dry matter basis. Appreciably higher levels may hinder fermentation and increase the risk of toxicity from certain clostridial bacteria or excessive NPN in the diet. Add NPN at a level to provide 0.15 pound of actual nitrogen (N) for each percentage of silage dry matter. For example, if the silage contains 70 percent moisture and 30 percent dry matter (DM), add approximately 10 pounds of urea per ton (45 percent N). This is computed, as follows:

$$\text{lb N/ton} = 0.15 \times \% \text{ DM} (0.15 \times 30 = 4.5)$$

$$\text{lb Urea/ton} = 4.5 / \% \text{ N as decimal} (4.5 / .45 = 10)$$

Note: Urea = 45% N; Anhydrous ammonia = 82% N

Preferably, NPN should be added only when the dry matter content of the silage is between 30 to 40 percent, which avoids abnormal fermentation and losses of added nitrogen (N).

Silage Preservatives And Inoculants

Most preservatives and inoculants are aimed at promoting lactic acid production, reducing dry matter losses during storage, reducing heating, and increasing bunk life. In some cases, one or more of these benefits have occurred in controlled studies, but not in all trials. Likewise, some improvement in milk production has been found in some studies, but not in others. Research has included organic acids, such as propionic or acetic-propionic mixtures or their salts, certain enzymes alone or in combination with antioxidants, as well as silage inoculants containing one or more types of bacteria. When used, these products should be added according to the manufacturer's

directions. Some people advise their use routinely for insurance purposes. The products cannot, however, overcome poor practices for ensiling, feeding, or managing silos.

Since whole-plant corn silage typically is well preserved, preservatives and inoculants should not be used routinely. They should be considered, however, when the crop is ensiled at moisture levels under 63 percent and over 70 percent. They also may be considered for use in the top or bottom third of horizontal silos, depending upon the expense for treatment and the potential for spoilage.

Transferring corn silage Occasionally, it is desirable to transfer corn silage from one silo to another. This often can be done with a minimum of risk, if silage is well-preserved, as indicated by smell and bunk life or pH level. The transfer should be made during cool weather and done as quickly as possible.

Prepared by: Greg W. Roth, assistant professor of corn management and Richard S. Adams, professor of dairy science. Where trade names appear, no discrimination is intended, and no endorsement by Penn State Cooperative Extension is implied. Issued in furtherance of Cooperative Extension Work, Acts of Congress May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture and the Pennsylvania Legislature. L.F. Hood, Director of Cooperative Extension, The Pennsylvania State University.

BUY, SELL, TRADE OR RENT THROUGH THE CLASSIFIED ADS

PHONE: 717-626-1164 or 717-394-3047

4 BUILDINGS AND SUPPLIES

Antique building materials, beams, wide pine boards, flooring, doors, etc. 717/249-2304

Calf Kennels, custom built to order, your choice of color on painted steel siding, 3x8' pens, any length available, inside or outside feeding, enclosed feed room, vents in rear wall Delivered to your farm. Lancaster 717-656-9327.

All Steel Buildings Agricultural, Commercial or Industrial Call Now to Save Wilson Enterprises Authorized Wedgcor Dealer Phone 717-656-4065

FOR SALE: Tobacco rails, 3x6, 16' & 18' long Also 4x6 20' long. Lancaster Co. 717-786-7143

For Sale: 2x8 YP, TNG barn flooring, kiln dried, will deliver to Lancaster area, Enos King, Box 128, Rebersburg, PA 16872 answering service (814)231-6303.

Free Buildings for Removal: Chicken house and pig pen, in good condition 717/626-7549. Lutz

LUMBER: Air dried walnut, 1,200-B.F., walnut logs sawed to your specifications, ash air dried 1-1/8 thick. Burketts Sawmill, Lancaster Co. 717/367-2791.

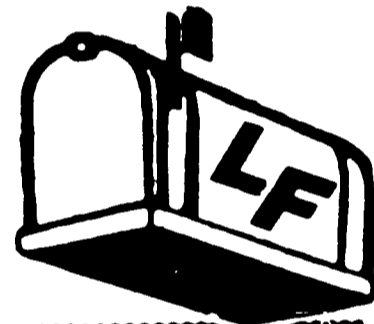
LUMBER: White Pine and Hemlock, cut to your order We cut long lengths (717)567-3003.

CLASSIFIED AD ORDER BLANK

PLEASE WRITE CLEARLY

MAIL TO:
LANCASTER FARMING
P.O. Box 609, Ephrata, PA 17522

DEADLINES:
SECTION C - WEDNESDAY
AT 5:00 P.M.
SECTION D - THURSDAY AT 9:00 A.M.
OF EACH WEEK'S PUBLICATION



NOTE: Please do not use this form for Mail Box Market Ads, see instructions with Mailbox Markets.

Name _____
Address _____
City _____ State _____
Zip _____ Phone (____) _____

Please publish my _____ word ad _____ times starting with the _____ issue. Classify under # _____. I enclose _____.

Box Replies: Ads with answers coming to a box number, c/o Lancaster Farming: \$1.50 per ad per week additional.

This newspaper will not be responsible for more than one incorrect insertion of any advertisement.

CLASSIFIED ADVERTISING RATES

34¢ per word per week - 1 or 2 times
28¢ per word per week - 3 or more times

Words	1 Time	2 Times	3 Times
up to 11	3.74	7.48	9.24
12	4.08	8.16	10.08
13	4.42	8.84	10.92
14	4.76	9.52	11.76
15	5.10	10.20	12.60
16	5.44	10.88	13.44
17	5.78	11.56	14.28
18	6.12	12.24	15.12
19	6.46	12.92	15.96
20	6.80	13.60	16.80

Lancaster Farming
1 E. Main St.
Ephrata, Pa. 17522
717-394-3047
or Lutz
717-626-1164

PHONE HOURS:
Mon., Tues.,
Wed. & Fri.
8 a.m. to 5 p.m.
Thurs.
7 a.m. to 5 p.m.

OFFICE HOURS:
Mon. thru Fri.
8 a.m. to 5 p.m.

The following categories are available for your classified advertising. In Section D. Deadline: Thursday morning at 9 of each week's publication

- 1- Farm Equipment
- 1a- Construction Equipment
- 2- Farm Eq. Wanted
- 3- Silos and Unloaders

The following categories are available in your classified advertising. In Section C. Deadline: Wednesday afternoon at 5 of each week's publication.

- 4- Building and Supplies
- 5- Grain Equipment
- 6- Dairy Equipment
- 7- Livestock Equipment
- 8- Cattle
- 9- Horses & Mules
- 10- Sheep & Goats
- 11- Swine
- 12- Artificial Breeding
- 13- Hog Eq. & Supplies
- 14- Poultry & Supplies
- 15- Feed & Seed
- 16- Fertilizer
- 17- Plants
- 18- Fruits & Vegetables
- 19- Nursery
- 20- Lawn & Garden
- 21- Services Offered
- 22- Custom Work
- 23- Help Wanted
- 24- Situations Wanted
- 25- Business Opportunities
- 26- Household
- 27- Pets
- 28- Lost
- 29- Found
- 30- Computers
- 31- Notice
- 32- Miscellaneous
- 33- Recreational Vehicles
- 34- Autos
- 35- Trucks & Trailers
- 36- Real Estate

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40

(Phone Numbers Count As One Word)