

# Dairy Pipeline

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' Extension Dairy Agent

**Preventing Johnsongrass** 

thwhile!

One way Johnsongrass spreads from farm to farm and from field harvesting equipment. Because of monia treatment of corn siilage infested fields.

several years, waiting for the details. opportune time to germinate. Thus, it is necessary to be persistent in control efforts.

the seeds survive fermentation and about 13 or 14 percent. It can digestion, and that some of the reduce silage dry matter losses 4 to infestations may have been spread 6 percent and energy losses by 6 to perhaps some of these seeds can natural protein in corn silage from spread when Johnsongrass in-degradation by an estimated 20 to fested feeds get into the bedding 40 percent; in untreated silage, and bypass the digestion process. about half of the natural protein is Nevertheless, it is a good idea not degraded to non-protein nitrogen, to purchase Johnsongrass infested NPN, during fermentation. Lactic feeds if it can be avoided.

### **Feeding Uncured Silage**

cows going off feed as they start to air. feeding newly-ensiled, but, uncured silage.

cows to recover fully from these nitrogen. setbacks, and the problem can be very costly to dairymen.

ATTENTION

FARMERS...

FREE

**ESTIMATES** 

ON RODENT

CONTROL

will need a supply of cured silage Johnsongrass is a very com- to feed from while the silo is being petitive, very costly noxious weed filled and while the silage is going that is gaining a foothold in Penn- through its curing process. Curing sylvania. Once established it can will take about two weeks. To spread rapidly from seed and from accomplish this, you may need an rhizomes. It can really bite into additional silo, a stack or a bag. It crop yields. It is very difficult and requires some planning plus a little very costly to control. Therefore, extra effort and cost, but the preventive efforts are very wor- benefits will probably far outweigh the costs.

**Ammoniated Corn Silage** 

Penn State Dairy Specialist, Jud to field is from seeds carried by Heinrichs, points out that "amthis, choose carefully who you hire has proven to be an effective and to do your harvesting for you. the most economical means of Preferably it should be someone preserving corn silage while who does not harvest Johnsongrass supplementing the crude protein value of corn silage." It is Johnsongrass seeds are very something worth considering by hard. They can lie in the soil for dairymen who pay attention to

Used at the rate of about seven pounds per ton of silage it can forages frequently. In Lancaster, elevate the crude protein level of There is some belief that some of the silage from 8 or 9 percent, up to "contaminated" manure; 10 percent. It helps protect the acid levels in silage increase about 20 to 30 percent. In the bunk, Corn ensiling time is close at ammonia inhibits the growth of hand. This is a time of the year molds and yeast and helps prevent when many dairymen experience silage from heating when exposed

Ammonia has some advantages, but it also has some risks. Cows can experience digestive Anhydrous ammonia is a toxic gas upsets, and declines in fat tests and that must be handled with care. production. It is difficult to get Ammonia is a non-protein

The cow's rumen microflora need a supply of readily available One way to prevent the problem protein from sources such as NPN is to feed only cured silage. You and soluble protein, however

PROPSS In ... of NPN and soluble protein can be toxic to the cow. So, the trick is to work closely with your nutrition and make other ration adjustments so as to arrive at the right balance.

When using ammonia, corn should be ensiled at 60 to 70 percent moisture, and ammonia should be applied uniformly at the rate of about seven pounds per ton of 35 percent DM silage. Test the silage frequently for protein content. Switch the herd to ammonia treated silage gradually over a period of about 2 to 3 weeks.

Testing

Many of you will soon be harvesting the majority of the feed that will carry you through the winter and to next year's harvesting season. The quality of feed you put up now is the quality your herd will have to put up with for a long period of time. Hopefully it's of good enough quality to entice good production.

One thing that affects quality is moisture at time of harvest. It would probably be wise to check the moisture content at harvest time occasionally. Moisture testers used for this purpose don't need to be real accurate, since the moisture content of the crop is changing rapidly. The main thing vou are interested in is getting a quick estimate of moisture.

The time when accuracy of moisture readings is important is at feeding time; it's necessary for the proper balancing of rations.

Because of the importance of moisture to forage and feed quality and to ration balancing, a moisture tester is one tool every good dairyman should have.

This is a year to be testing we've had a rather unusual growing season — a dry spring and lots of rain in July. The quality of forages grown under drouthy conditions is generally higher than that grown under wet conditions. Because of the rain delays, some of our hay crop was overmature when harvested. Some of the hay may be musty or moldy because it was too wet.

The fermentation of some of our rain-pelted, dirt-splashed, and hail-damaged crops may be different than normal due to a change in the microorganism population on the crop being ensiled.

Because of some short stalks, the ear to stalk ratio on some corn crops may be different. Poor pollination and ear development in other fields may have the same effect.

The point is, you may have a lot of variation in the quality of feeds you'll be using, and the quality this year may be different from that of last year. To be more sure, test

frequer y = as needed. **Dessicants and Preservatives** As we look back into the rainy month of July think about how much hay you might have been able to save if you could have gotten it harvested one day earlier or if you could have safely baled it at a slightly higher moisture level. Would a chemical drying agent, dessicant, or a hay preservative have helped you: 1. avoid some crop losses? 2. to harvest the crop at a more desirable maturity for better quality feed? 3. or permitted you to get the crop off in time to make an additional cutting possible without jeopardizing the stand? If you put up some off quality feed as a result of the rainy season, how much will this affect production, and what will be the cost of this? How much will it cost you to purchase feed to replace

what you did not get harvested? These are difficult questions to answer. Nevertheless, I think we need to reflect on them as we try to evaluate whether dessicants and preservatives have a place in our management program. The costs have to be weighed against the benefits, and we have to be careful

not to let one bad month affect our decisions; consider how often you experience inclement weather at harvest time.

Fall Alfalfa Management

The question is often asked "when should I take off the last cutting of alfalfa" The old guideline was no closer than 45 days to the first expected killing frost — whenever that is. If the first killing frost was October 15, that means not cutting after September 1. However, recent research has resulted in revised guidelines.

If fertility is good, if the more modern resistant varieties of alfalfa are grown, and if the stand has not been stressed by insect injury, weed competition, poor growing conditions or too frequent cutting, then, the date of the last cutting is of little importance, especially if one or more cuttings have been allowed to come into bloom. If the stand has been stressed and if you really want to save the stand, then comply with the old guideline.

Another question asked is, "can I remove a cutting after a killing (Turn to Page D17)

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