

Timed - release herbicides seen

STATE COLLEGE — "Controlled release technology has the potential for improving the effectiveness of herbicides while reducing their impact on the environment," a U.S. Department of Agriculture agronomist said here recently.

Controlled release formulation—probably best known by the "time capsule" cold remedy—could be a new direction in commercial pesticide information, said C. Benjamin Coffman of USDA's Science and Education Administration.

Speaking at the annual meeting of the Northeastern American Society of Agronomy, Coffman described several advantages of the experimental formulations he has been studying. "By releasing only a small quantity of herbicide into the environment at a given time, there is less likelihood of the active compound in runoff water than with most conventional herbicide information.

"Conversely, the remainder of the herbicide is protected from the environment, extending the period of weed control and possibly eliminating the need for an extra treatment—saving fuel," he said.

Several commercial herbicides must be incorporated into the soil to protect them from decomposing, but controlled release formulations may eliminate this need. Not having to disk the herbicide in is another fuel-saving factor, said Coffman.

In his presentation, Coffman was referring primarily to two controlled release substrates—starch xanthate and ureaformaldehyde. Both produce granules that must be applied with a spreader.

In greenhouse tests, starch xanthate and ureaformaldehyde formulations of the herbicide, propham, more than doubled the period of ryegrass control as compared to the com-

mercial, sprayable formulation (10 weeks compared to 4.5 weeks). And a starch xanthate formulation of chlorpropham (a close, but longer acting relative of propham) extended the period of ryegrass control of 12 or more than 20 weeks.

The starch xanthate formulations were synthesized by SEA research chemist Baruch S. Shasha of the Northern Regional

Research Center in Peoria, Ill. PPG Industries, producer of propham and chlorpropham, synthesized the ureaformaldehyde formulation.

Coffman, who conducts his research at the Agricultural Research Center in Beltsville, Md., said that, in his experience with controlled release formulations of herbicides, he has had best results with starch xanthate

Chemical safety in spotlight

ROCK SPRINGS — Three members of the Penn State College of Agriculture will put on a skit demonstrating safe and unsafe procedures of handling agricultural chemicals at Ag Progress Days.

"Safety doesn't have to be dull," says Dennis J. Murphy, agricultural safety specialist, one of the program participants.

"We hope to provide a little entertainment as well as get an important message across to the people. What we'll be emphasizing," says Murphy, "is that dangerous chemicals, if handled properly, present little hazard to the user. But if handled improperly, can result in permanent and life-

long illnesses, respiratory ailments, and even death."

Donald Daum, agricultural engineer, and Winand K. Hock, pesticide specialist, will be the other two program participants. The skits are scheduled for 2:00 p.m., each day, in the Theater. A chemical safety display will be exhibited in the Educational Exhibits tent.

Ag Progress Days will be held Tuesday through Thursday at the Rock Springs Agricultural Research Center, 9 miles west of State College on Rt. 45. The three-day event has been designated an official part of the 125th anniversary celebration at Penn State

Cecil County DHIA

June 1980

Following are the top ten dairy herds for Cecil County which are on test with the Cecil County Dairy Herd Improvement Association. This information is compiled from records received in the Cecil County Extension Office during the period from June 16 through July 15, 1980.

OWNER	LBS MILK	% FAT	LBS FAT
Killdee Farm	538	4.68	2.52
Zee-M Farm	496	3.99	1.98
Joseph & Lisa Ayers	469	3.39	1.59
Pioneer Valley Farm	465	3.24	1.51
R D Dempsey & Sons	457	3.36	1.54
William Fred Schrader	448	3.51	1.57
Blair & Cammy Yurkanin	436	4.03	1.75
Benny J Farm	429	3.49	1.50
Carroll Davis	422	3.97	1.68
Kilby's Inc	417	3.30	1.37

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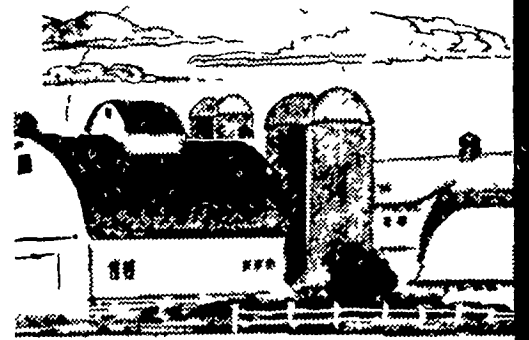
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The Questions
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- WHAT AM I GOING TO USE ON MY SILAGE THIS YEAR?
 - An Enzyme Based Product?
 - A Yeast Preparation?
 - A Urea Product?
 - A Molasses Based Product?
 - A Cultured Additive?
- WHAT WILL TOTAL COST OF THE PREPARATION BE?
 - Cost Per Ton!
 - Coverage Per Ton!
 - Total Return Vs Dollar Investment!
- HOW WILL I APPLY THE PRODUCT I CHOOSE?
 - Easy Application!
 - Requires Special Applicator!
 - Must Be Applied By Hand!

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The Answers
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- ALFA-ZYME is a fermented enzyme product injected onto a fine grade alfalfa (a top grade carrier of enzymes) We have the ORIGINAL ENZYMES PRODUCT!
- The COST of ALFA-ZYME Vs return for your dollar is fantastic. While other products use minimal lbs per ton, ALFA-ZYME requires 50 Lbs for every 3 tons of silage or high moisture corn. A 120 ton silo takes 40 bags or 1 tone of ALFA ZYME.
- We realize we might not have the easiest product to apply, but after application we have that "SOME THING SPECIAL" that makes better silage and corn! (No, we don't have an "easy applicator" but then again if your results are not satisfactory with "easily applied" products, all you end up with is a useless "easy applicator!")

We hope the above information has captured your attention. Now we have a few questions of our own.

- Do you realize the product you choose will determine the outcome of your silage up to the next filling season? You can change your feeding program often, but the product you apply to your silage or corn must work the coming winter, spring and summer months!
- Have you already purchased a product because of an early discount or "special deal"? If so, try this test: fill 1/2 your silo with the other product and then add ALFA-ZYME to the remainder. Make 1980 the year you make the test!



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