SECOND SECTION



Nutrition In The Field

crops with over 3,000 grades of chemical fertilizers, mounting sales of plant nutrients invite a look at the industry's supplies.

America's farmers are reaping ever-bigger harvests with steadily increasing yields. At the same time, they're using more and more fertilizer.

Farmers spent nearly \$1.8 billion in 1966 for about 34 million into mixtures alone. These mix- the capacity to produce an estons of chemical fertilizers of- tures accounted for 57 percent, fered in close to 3,300 different or 19.4 million tons, of total tongrades.

These sales represented a 57- By 1980, consumption of plant twe capacity for anhydrous am- planted in the ground, corn seed percent increase from only a nutrients is expected to be more monia was an estimated 17 mildecade earlier in the volume of than double that in 1966.

While farmers nourish their gross- fertilizer tonnage consumed.

> The most striking change in the 1956-66 period, however, was fertilizer's primary plant nutrients-nitrogen, phosphorus, and potassium (tagged N, P, and K, primary store is the atmosphere, respectively).

> ments rose to 9.6 million tons into chemical compounds-notain the year ending June 30, 1966 bly synthetic ammonia. And about 5 million tons went nage.

What and where are the sources of plant nutrient supplies-not only for US. farmers but also for farmers abroad? Will stocks be sufficient to meet the heavier needs and demands?

What developmnts can be exa rise of 120 percent in use of pected in the chemical fertilizer industry?

Nitrogen, for which Nature's is available to all countries that Total use of these nutrient ele- have a facility for converting it

> timated 27 percent of the world's (Continued on Page 22)

Spring Sends Out A Call Even To Stored Corn

to all living organisms.

and tries to answer the call to when the corn has been dried reproduce.

Everyone knows that corn beed in the warm, moist soil, but North American plants have crib, far above the ground, corn farm or in commercial bins, 'knows'' when spring arrives? nitrogen supply, and Western goes through a physiological heating is the odor of sour corn Europe 36 percent US produc- change. Even though it is not will try to carry out its reproductive function It may not ac-

When spring creeps north, na- tually sprout, but the increasedture puts out an undeniable call activity within the kernels will produce enough heat to spoil the Even corn in storage "hears" crop. This can happen even

to 14 or 14½ percent moisture.

Says John Crothers, Extension gins to sprout when it is plant marketing specialist at the University of Maryland, "if you did you know that even in the have shelled corn stored on the check it carefully for heating. At this time of year, corn One of the first obvious signs of -but by that time it is too late.'

> "You have to be on the defensive if you want to beat nature at her tricks he adds "If you don't have heat sensors already in the bin, you'd better find some way to take temperature readings at several areas. Heat sensors on the market can be installed in most bins '

> Crothers says the heating problem is likely to be worse if the corn contains large amounts of foreign material (weed seed, pieces of cob, broken kernels) which forms pockets and may hold a little more moisture than the rest of the bin.

> "What can you do if the heat sensors do show hot spots? The best thing is to turn the corn by transferring it to another bin. This will be certain to move and aerate- all sections of the bin. It also breaks up any pockets of foreign material." Crothers adds. "This job should be done on a sunny day if possible.

> But even after the corn is moved to another bin, don't be complacent, Crothers warns. All your efforts may be wasted if the rebinned corn begins to heat again. Usually you can keep the corn in good condition if you aerate it with forced air. Grain can be kept safely through the summer if it does not heat or is not allowed to get damp. But you have to know Mother Nature and her tricks if you want to stay on the defensive.

> Jay Irwin **Speaks** At **E-Town FFA** Guest speaker for the Elizabethtown FFA Chapter Parent-Son Banquet held recently in the school cafeteria, was Jay Irwin, assistant county agent. Irwin showed slides taken on his recent trip to the Soviet Union. In the awards program, Daniel S. Baum, Kenneth Johnson Jr. and John Risser were made Honorary Chapter Farmers, and a certificate of appreciation was given to Baum's Bologna, Inc. The Chapter Star Farmer was John Kurtz and the Star Green Hand was James Kreider. These foundation awards were given' Kurtz, Dairy; Steve Alleman, Livestock, Mike Baum, Poultry; Gary Dupler, Farm Mechanics, and Kurtz, Crops The Swine Trophy was presented to Mike Baum from the Elizabethtown Kiwanis Club and the Record Keeping Award went to Kurtz from the Elizabethtown office of the Harrisburg National Bank and Trust Co.

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The Lancaster County Bankers Award went to Kurtz and was presented by Dr. Phillip Metzler, president of the Elizabethtown Trust Co.