Smith Warns On Liquid Fertilizer To Feature Three Dairy Experts Promotion In Lancaster County

Many farmers are becoming interested in liquid fertilizers to be used in place of the dry forms of plant nutrients, County Agent Max M. Smith said this week.

Since many questions on the value and use of this form of plant food have come to the exstanding about the use of liquid plant food.

In the first place, he said, liquid muxed fertilizers are plant nutrient materials in a liqud form; this liquid may contain various combinations of nitrogen, phosphoric acid, and potash. Dry fertilizers also contain various combinations of the same plant nutrient materials plus a carrier. If liquid fertilizer and dry fertilizer are applied in equivalent amounts, and in the same manner, there would usually be little or no difference in crop growth.

Many growers are using liquid forms of fertilizer because it can be handled best by mechanical means with a minimum of labor, it can and shoud be placed properly in the soil the same as dry forms of fertilizer However, special liquid feitilizer equipment must be purchased, or custom application used, according to Sm-

Some reports seem to indicate that liquid fertilizer may be used as a foliar spray (on the leaf surface) to provide the needed plant nutrients This method of application has been practiced but usually is a poor substitute for plant nutrients applied to the soil. Experiments conducted by many state experiment stations have proven that applications of nitrogen, phosphorus, and potash to be ineffective as a spray on the leaves of field crops. Plant leaves can absorb only small amounts of nutrients; to provide the amount needed would require many applications Also, leaf injury from foliar applied fertilizer solutions is a problem unless under the guidance of crop experts.

Another practice that is being promoted by some local fertilizer concerns, is a seed treatment with a complete liquid fertilizer before planting This is not a good practice and research findings to date show no advantage It can actually prove detrimental to germination Liquid fertilizers may be used as a starter solution but usually are more expensive than other forms dissolved in water.

COMBINE BRINGS \$5,180 AT ESBENSHADE SALE

A Combine brought \$5.180 at the Adam B Esbenshade sale near New Holland last Tuesday A Farmall stractor brought \$1,890 and a Ford tractor sold for \$1,880.

The top cow in the herd sold for \$810 and the second cow brought \$630 A five month old heifer calf changed hands at \$235, and the entire herd of 30 cows averaged \$370 per head

Hay brought \$56.50 per ton and corn \$41 50 per ton

Other items and their selling prices included a self unloading wagon, \$900, a M-F tractor. \$660; Farmall "C" tractor, \$735; Baler, \$815, hay crusher, \$422, disc \$220, drill, \$250, manure loader. \$225, milkers, \$70 to \$95, milk cans \$7; silage, \$19 per foot, ponv, \$180, shoats, \$13 each, and a copper kettle, \$42.

should not be done.

In summary, liquid fertiliz- ate County Agent. ers are as good as, but no bet-

Breeders Institute Is Scheduled;

minent dairy authorities, Dr. all the honors that were with-The degree of acidity of the Carl F. Huffman, East Lan- in reach. In presenting his soil should 1 of be any different sing, Michigan; Harvey C. subject "Roaming Through the for dry forms of fertilizer, or Dreibelbis, Colts Neck, New Rumen" he will be relating for liquid fertilizer. It has been Jersey; and George R. Mc- his findings of the interior well established that most fie- Laughlin, Beavertown, On- workings of the dairy cow. ld crops do best at a pH of 6.5 tario will be speakers for the Harvey C. Dreibelbis, farm to 7.0 (exceptions might be po- third annual Breeder Institute manager of the nationally fatatoes at lower pH levels and sponsored by the Pennsylvania mous Hominy Hill Guernsey legumes at higher readings) Holstein Association. Local Farms where since established Complete soil tests should be dairymen are invited to attend in 1941 has completed a total tension office, Smith said he made to determine the amount one of six regional meetings of 80 class leader records, infeels there is a great deal of of lime needed. The suggestion on March 18, 10:30 A.M. at cluding 13 national produc- presentations the speakers will misinformation and misunder- of spreading excessive amounts Holtzschwamm Church, Thom- tion records. Equally impres- appear on a panel to answer of ground limestone (5 to 15 asville R1 (on Rt. 234 - 10 sive have been the ribbons and questions. Plastow urges all Tons per acre) is faulty and miles west of York), accord- trophies received for prize

> ter than, dry fertilizers if — looking into the digestive pro- individual cow care, Mr. Drei- bre of a program in our area." (1) It is applied to the soil, cess of dairy cattle at Michigan belbis has selected for his sub-(2) equivalent amounts of pl- State University. His findings they are placed in the soil in a leading state in this field the same manner, Smith said, and during his career the

A trio of nationally pro- diminutive scientist won about

ing to Victor Plastow, Associ- winning hay exhibits at both favorite breed of cattle to at-Dr. Huffman spent 39 years ing a firm believer in proper occassion to witness this cali-

ject "Managing the Dairy Herd".

George R. McLaughlin, owner-manager of the prominent Elmcroft Holstein Farms is one of Canada's most influential young men in agriculture. An immediate past-president of the Canadian Holstein Friesian Association, McLaughlin recently gained fame when his consignment topped the Royal Winter Fair Sale of Stars at \$16,500. He will be discussing 'Selective Breeding and Herd Development".

Following their individual dairymen, regardless of their state and national shows. Be- tend. He said, "It is a rare

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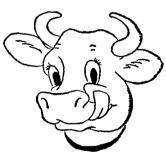


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