

Snap Beans Respond Well To Nitrogen, Phosphorus

For best yields and balanced nutrition, snap beans in the commercial production areas of Pennsylvania can be grown most efficiently with only reasonable quantities of nitrogen and phosphorus and recommended amounts of lime.

This statement was made August 31 by Dr. Cyril B. Smith of The Pennsylvania State University during the 69th annual meeting of the American Society

for Horticultural Science in St. Paul, Minn.

Favorable yield increases occurred only when nitrogen and/or phosphorus were applied, Dr. Smith stated. The Penn State scientist in plant nutrition said potassium and magnesium applications gave no favorable response.

Snap bean nutrition experiments were carried out at 3 different sites using varieties

Blue Lake and Provider. Fertilizer treatments were set up to test the effects of banding one or two 25 pound increments of nitrogen, phosphorus, potassium, and magnesium in various combinations. These were applied as ammonium nitrate, triple superphosphate, muriate of potash, and Magox, respectively. Also included were clastic and dolomitic limestone treatments at rate of 2 tons per acre.

Leaf analysis results showed that both applied nitrogen and phosphorus strongly enhanced the absorption of calcium and magnesium and depressed uptake of potassium. Dolomitic limestone applied just prior to planting also resulted in increased magnesium uptake. These results indicate why it is usually unnecessary to apply magnesium in fertilizer.

When potassium was applied, even at the 25 pound per acre rate, uptake of phosphorus, calcium, and magnesium was depressed. This shows why

potassium should not be applied unless definitely needed.

When magnesium was applied, a substantial increase in magnesium uptake occurred but this was largely counteracted by application of an equal quantity of potassium. Thus, the magnesium content was similar whether both potassium and magnesium, or neither, were applied. This indicated that the antagonism between potassium and magnesium is so strong that they are inefficient when both are applied in fertilizer.

The studies are among some 325 projects being carried out by scientists with the Agricultural Experiment Station at Penn State.

Calming Childish Fears

As an adult looking back to your childhood you may recall it as the happiest time of your life. You're probably remembering the days when you laughed and played and had little or no responsibilities—and no bills to pay! But you're forgetting the worries and fears you had as a child.

Remember when your parents left you with the neighbors for a day while they went on a trip? You wondered if and when they'd return. Or the time your mother went to the hospital? Everyone said she was all right—but you weren't sure. Now you may wonder why your child cries when you place him in a similar situation.

Cats, big dogs, mice, or high places may also have frightened you. These fears were very real but sometimes you were ridiculed. Fear is a feeling and that's why it's very complicated. You usually fear things you know little about. To help your child, try to make him understand and learn about the things he fears. Be sympathetic and discuss your child's fears with him. If he has a chance to put his fears into words, he may find there's nothing to fear. Building courage is an antidote to fear. Look for chances to help your child develop courage.

Just as fear was real to you, it is real to your child. And he needs to feel that you understand him and are sympathetic.

4-H Calendar

Sunday, September 3
Rough Riders 4-H Horse and Pony Club clinic, Mrs. Jane Groff's, Quarryville.

Wednesday, September 6
7 p.m. — Akron Singing Needles roundup, Akron.
7:30 p.m. — Red Rose 4-H Baby Beef and Lamb Club pig roast, New Holland Park.

Saturday, September 9
Boots and Saddles 4-H Horse and Pony Club meeting, home of Donna Rousseau, Penn Grant Rd., Lancaster.

Garden Spot Club

The Garden Spot 4-H Club has been working hard the past several months on their projects for Achievement Day, which was held August 17, and the Club has gone on several educational tours.

The first tour was to Bell Telephone where the Club found out how phones work. The second was to a veterinarian, Dr. Harold Landis of Smoketown. The Club saw many sizes of pills and needles and the injured animals, as well as a new operating table.

News Reporter,
Lorraine Woodruff

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