How Lime Works

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easiest to handle

NOW most economical,

the soil

Calcium carbonate (CaCO3) soil to form carbonic acid

Have you ever wondered how dissolves slightly to release excess hydrogen (H) in an acid

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(H2CO3) Carbonic acid is unstable and splits apart to form carbon dioxide (CO2) and water (H20) Therefore, by this process, we have taken acid-formlime neutralizes soil acidity? It some calcium (Ca) and some ing hydrogen out of the soil does this by inactivating or 'ty carbonate (CO3) The carbon- system and combined it into a ing up' the excess hydrogen in ate (CO3) combines with the neutral, inactive water mole-

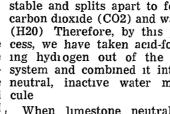
> When limestone neutralizes soil acidity, the calcium in the lime replaces the hydrogen on the surface of soil particles But, calcium does not neutralize the acidity As pointed out previously, it is the carbonate in the lime that inactivates the excess hydrogen

> The most important berefit of liming is that nearly all agronomic crops can be produced more efficiently when the soil pH is 65 to 70 In longtime studies in Wisconsin, we found that liming a soil with a pH of 52 resulted in yield increases of 40 percent for corn, 2 percent for oats, and 67 percent for alfalfa Research in Iowa and Ohio indicates that maximum yield of corn, oats, and alfalfa are attained when the soil pH is about 68 to 70

Liming acid soils improves crop yields primarily because

- 1 Microorganism activity is enhanced This results in more rapid release of nitrogen, phosphorus, and sulfur from decomposing organic matter, and in more efficient nitrogen fixation by legume plants
- 2 Nutrients, such as phosphorus and molybdenum, are more available at a pH of 65

Information Institute reports



- 3 Elements, such as iron, aluminum, and manganese, which are apt to be toxic in acid soils, are not a problem when soil is limed

NEW YORK - The civil disorders that laged across the nation during the summer of 1967 caused insured losses of more than \$64 million, the Insurance

TRAFFIC SAFETY

(A 5-question quiz on traffic safety from the Pennsylvania Bureau of Traffic Safety published through the cooperation of this newspaper)

- 1. In 1967 there were 2112 fatal accidents. Of these, approximately..... percent of the offending drivers involved were 24 years of age or younger.
- (a) 24
- (b) 30
- (c) 36
- (d) 41
- 2. While women drivers are the brunt of many jokes, statistics for 1967 reveal that of the 2112 offending drivers in fatal accidents, only..... were female.
- (a) 252
- (b) 313
- (c) 412
- (d) 613
- 3. Not one of Pennsylvania's 67 counties escaped without a traffic fatality in 1967. Only one county was able to hold traffic fatalities to one death. That county was
- (a) Clinton (b) Huntingdon (c) Potter (d) Forest
- 4. Under the recently passed legislation on "implied consent", an operator of a motor vehicle will be presumed to be under the influence of alcohol if properly conducted tests indicate the alcohol content of his blood to be.....
- (a) .10
- (b) .12
- (c) .15
- (d) .18
- 5. School's now in session. The speed limit for automobiles, when passing a school building during recess, or while children are going to or leaving school during opening or closing hours is.....miles per hour.
- (a) 10
- (b) 15
- (c) 20

Answers 1-c, 2-b, 3-d, 4-2, 5-b

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Prevent Ice Buildup

ity of ice building up along the edge of the trough, or filling the downspouts, and causing water a heating cable along the edge others? - George Eliot

of the roof or the spouting helps If water got into your house prevent ice buildup, it may be in through the downspouts to or any other building during re-keep them clear of ice, they cent heavy rains, it might be be-need to be turned on only when cause the eaves and downspouts the ice is forming Some safety were clogged with leaves With precautions must be observed. buildings under or near trees, Fasten it firmly with clips, make this could asily happen and sure it is grounded, and don't should be given some attention cut standard cable lengths before serious damage is done. These safety items are true with Also. I'm aware of the possibil- any heating cable at any place.

What do we live for, if it is to enter the building Zigzagging not to make life less difficult to

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