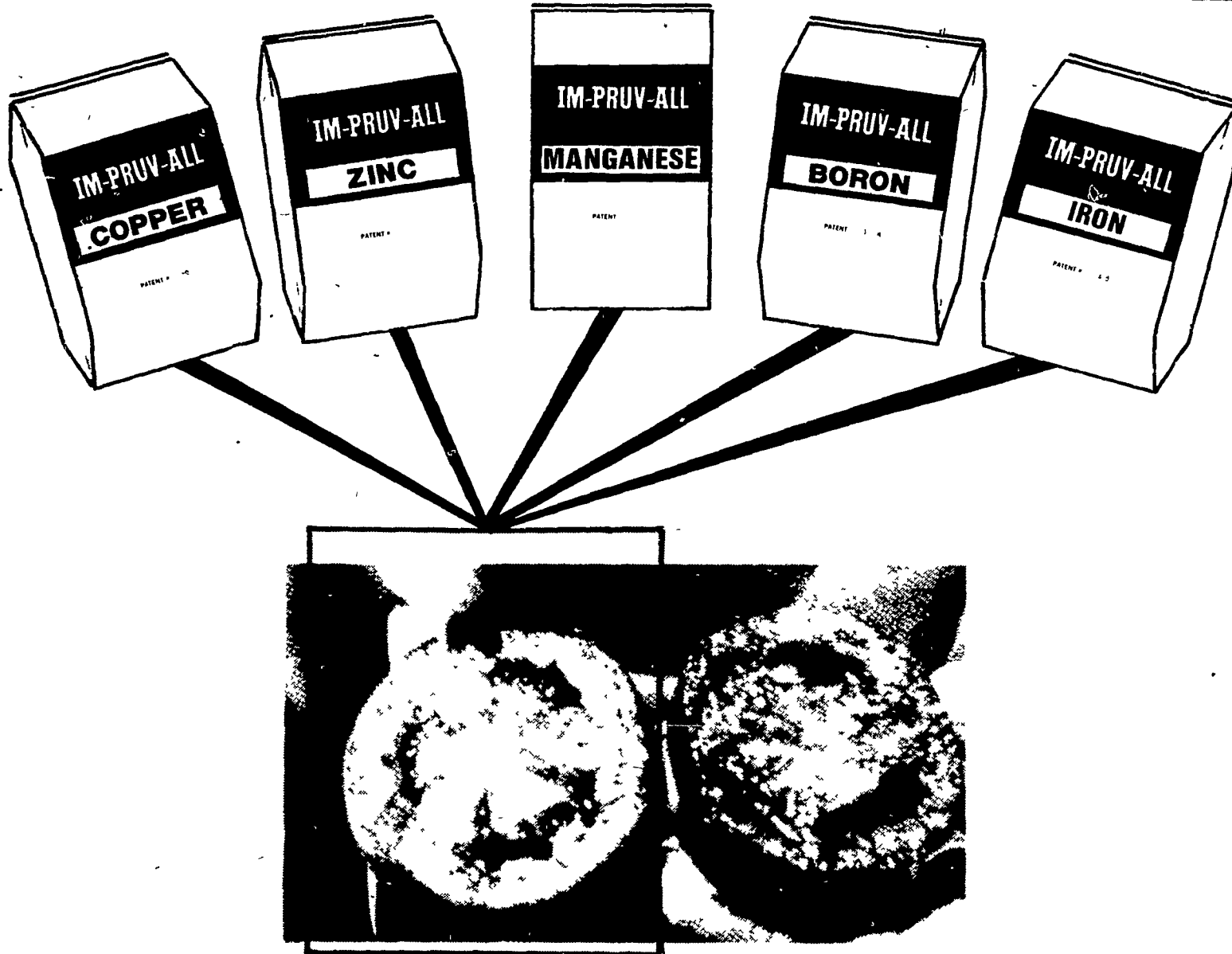


IM-PRUV-ALL



Scientists now recognize more than 100 elements. Most of them occur in plants, but only 17 are currently known to be essential. The 17 known essential plant elements are classified as follows

ESSENTIAL NUTRIENT ELEMENTS AND THEIR SOURCES

ESSENTIAL ELEMENTS USED IN RELATIVELY LARGE AMOUNTS		ESSENTIAL ELEMENTS USED IN RELATIVELY SMALL AMOUNTS	
Mostly from Air and Water	From Soil Solids	From Soil Solids	
Carbon Hydrogen Oxygen	Nitrogen Phosphorus Potassium Calcium Magnesium Sulfur	Iron Manganese Boron Molybdenum	Copper Zinc Chlorine Cobalt

Other minor elements such as sodium, fluorine, iodine, silicon, strontium and barium do not seem to be universally essential, as are the seventeen already cited, although the soluble compounds on some may increase crop growth.

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Twin Valley has flower power

ELVERSON, Pa. - Many of the classrooms at Twin Valley High School and Middle School are just a little bit more colorful because of the generosity of Dutch Wonderland and the efforts of the Twin Valley FFA. For the past several years FFA members have obtained geraniums from the Caernarvon Township Municipal Building in Morgantown, potted them, and placed them in classrooms. This year Caernarvon Township used petunias in a Bicentennial theme, so FFA members arranged to obtain plants from Dutch Wonderland in Lancaster. Immediately preceding the hard freeze of several week ago, Tom Enle and Ron Frederick, FFA advisors at Twin Valley, journeyed to Dutch Wonderland to obtain plants. Over 80 different plants were obtained, including many types of wax begonias, coleus, geraniums, impatiens, and dusty millers.

The following day FFA members potted the plants and began to care for them. As the plants recovered from the shock of being planted, they were distributed to various classrooms. Members of the plant science class have now assumed responsibility for caring for them, and will take cuttings from them.

Turf show set

CHERRY HILL, N.J. - The Annual New Jersey Turf Grass Expo '76 is scheduled to be held on December 6 through 9 at the Cherry Hill Hyatt House, here. The Third Annual Turf Grass Educational Conference and Trade Show includes sessions on establishing and maintaining turf for golf courses, athletic fields, lawns of various types and use of sod.

The trade show will feature the latest in turf grass equipment and products.

The annual event is co-sponsored by Cook College, Rutgers University, and the New Jersey Turf Grass Association.

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