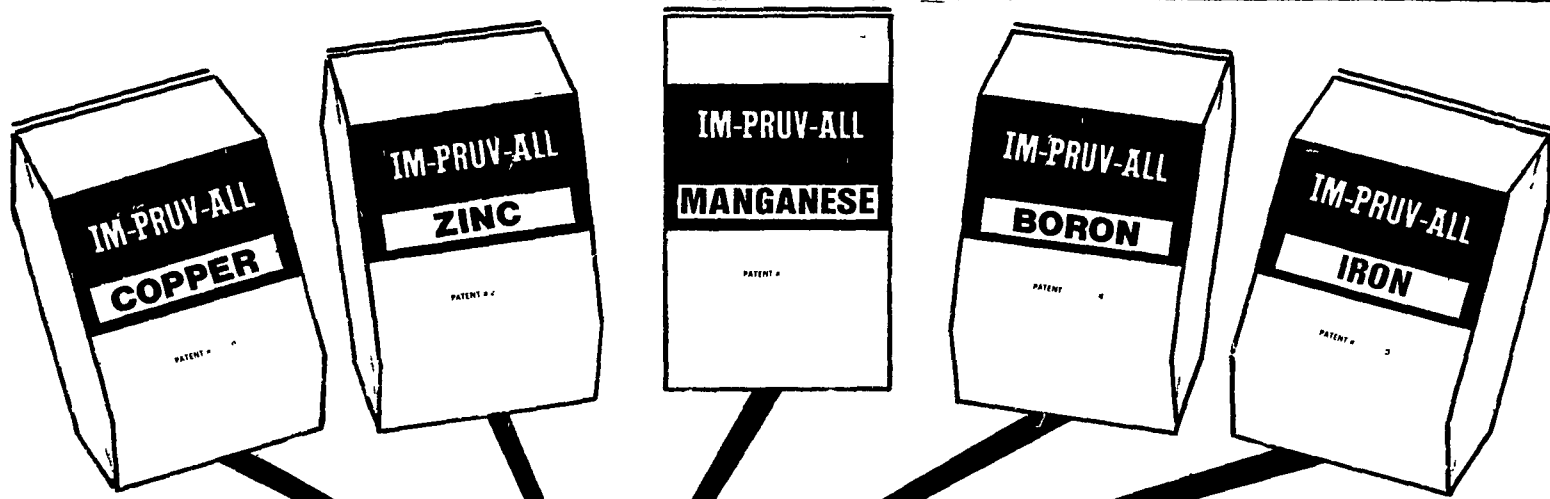


IM-PRUV-ALL



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	Iron Manganese Boron Molybdenum	Calcium Magnesium Sulfur 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.

WEILER BROS. INC. IM-PRUV-ALL

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Lancaster Farming,
Saturday, Nov. 6, 1976—15

What's New

PTO SHAFT

POTTSWATER, Pa. - A new driveshaft evens torque loads during turns to distribute power better, lessen vibration and extend life, according to the maker.

Neapco says its new 90 degree shaft reduces all the traditional problems with power-take-off in turns without adding cumbersome or troublesome parts.

The new shaft fits directly onto the PTO shaft of the tractor and the implement, just as a standard shaft does. The secret of its operation lies in the shaft's ability to telescope.

As the tractor turns, the shaft contracts so that the angle at the driving yoke and the angle at the driven yoke remain almost equal. Unequal angles at the input and output yokes cause uneven torsional loads, vibration and chattering - all of which work to induce failure. By eliminating the failure-inducers, Neapco says, the new shaft delivers longer life.

At present, the shaft is available in Neapco's 1800 Series for tractors and implements rated up to 48 horsepower at 1000 rpm. It is intended only for original equipment applications, not retrofit.

Neapco's Randy Altenhoff, national sales manager - OEM, says each application will be custom-engineered. Peak loads - not average horsepower - are the limiting criteria, he points out.

Tough Task

It is estimated that 12 per cent - Or, 4.5 million - of the 40 million American women who perform house-keeping duties are affected by some type of disability

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