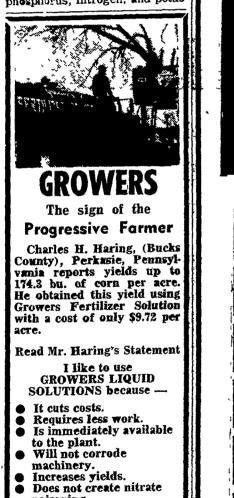
### Effluent From Sewage Plants Utilized In Irrigation Plan

from municipal sewage treat- crobes break down organic mole- ing Service. Stocks of all feed ment plants, normally wasted cules such as found in "hard" when fed into streams or lakes, laundry detergents. can be utilized in small or me- In the Penn State experiments, tremely good growing season dum-sized communities by ir- corn plants removed more ni-during 1967. Stocks of small righting nearby farm and forest rigating nearby farm and forest trogen than was added in all the grains increased moderately but land with the chlorinated efflu- water applied during a 33-week the supply of corn on hand Janent or run-off, suggests Louis T. period. The same corn, in sil- uary 1 was more than double Kardos, professor of soil tech- age form, removed 22 to 39 per. the supply a year earlier. nology at The Pennsylvania cent of the phosphorus applied State University.

ter and plant nutrients would re- held onto virtually all the rest of 1, 1967 stocks. Most of the stocks quire an irrigation system using the phosphorus. 129 acres of land to take up the one nº llion gallons of renovated waste water produced daily in a community of 10,000 persons, Dr. Kardos says.

He and his associates make this suggestion based on experiments applying 2 mones of chlor-inated sewage effluent weekly to 12. Corn yields increased by 30 says Jantes P. Gallagher, ex-65 acres of Penn State farm and forest land. They found that 60 to 80 percent of the renovated water trickles down to the groundwater reservoir and thence to wells, springs, and streams The water easily meets standards for potable water as set by the U.S. Public Health Service

Plant nutrients in sewage effluent undergo a "living filter" treatment by microbes, plants, and soil, Dr. Kardos explains. Plants take up nutrients such as phosphorus, nitrogen, and potas-



Water and plant nutrients sium through the roots. Soil mi-

in waste water. Soil particles positions are not much higher Such a method of utilizing wa- known as colloids absorbed or now compared with the January

> Such use of waste water is espcially beneficial to crops in dry years. During four ycars of drought at State College, hay yields increased by 2 to 3 tons per acre where 1 or 2 inches of waste water were applied week- unless it is in a ring or pasture, to 50 bushels per acre in con-tension animal science specialventional rows 38 inches apart. ist at The Pennsylvania State Such benefits could help to pay University. But if you are out costs of installing an irrigation late, keep your voice calm to system.

Total stocks of grain on January 1, 1968 were 75 percent more than a year earlier according to the Pennsylvania Crop Reportand food grains were higher on January 1 because of an ex-

STATE GRAIN STOCKS UP

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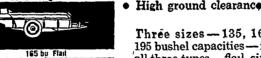


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