16-Lancaster Farming, Saturday, January 5, 1963

Zero Tillage For Corn Crop Is Researched

"Zero Tillage" may become 105.

corn on grass or grass-legum- tillage plots were not signifi- greater with no tillage than es sod, with all usual plowing canty different from yields on with conventional tillage. and cultivating eliminated. The sod, killed with herbicides prior to corn planting, re- ready

mains as a protective mulch through the growing season. yet fully resolved. Corn production without tillage is under study by ARS soil scientists, in cooperation and Virginia Agricultural Ex- tion of early-season herbicide, a small soil sampling tube. a standard practice of some periment Stations. Their rehumid-area corn growers if search indicates zero tillage yields (up to 140 bushels per ation. In the Virginia experibushes in New York) on no- to conventionally prepared soil.

es, there are problems not tensive field trials.

ADVANTAGES .

1. Only two farming operaspray and planting.

2, Killed sod acts as a mulresults of preliminary research has important soil conserva- ch during the growing season, with 4 pounds (active ingredare borne out in further stud- tion advantages. And corn restricting runoff and evapor-lient) of atrazine, per acre. The term describes an ex- acre in Virginia and 128 ments, available soil moisture 1,000 pounds of 10-10-10 per an 18-inch depth was acre, broadcast after planting.

3. The mulch from the pre-

1. No completely satisfactory equipment is available for

PROBLEMS

ies indicate several advantag- tice has not been tested in ex- weeks before planting the

In the Virginia experiments, pletely eliminated. The corn acre. The plots were fortilized was hand-planted, in orchardwith the Cornell University tions are required - applica-grass sod, in holes made with The sod had been killed 5 weeks earlier by spraying The plots were fertilized with

In the New York experiments, the corn was planted of home fires. Farm safety The scientists are not yet ceding grass crop reduces soil in narrow strips cut in the specialists suggest you check sod by a conventional corn your home heating plant freplanter, following a good al- quently and make any needed falfa-grass crop. The scient- corrections promptly.

tillage. Although early stud- may be a problem. The prac- ists killed the sod 4- to 6 corn by spraying a mixture of 3 pounds of atrazine-and 2 tillage operations were com- pounds of aminotriazole per with 1,000 pounds of 10-10-10 per acre. Eighty percent of the fertilizer was applied as a topdressing before planting, and 20 percent was applied as a topdressing before Planting, and 20 percent was applied in bands with a conventional seeder at planting time.

> Defective flues and heating systems head the list of causes



planting corn in sod. 2. Herbicides used for killing the sod may interfere with the establishment of oats or other crops following corn. In limited tests in Virginia, however, scientists were able to establish small glains, orchardgrass, and alfalfa after corn had been produced in sod killed by herbicides. Weeds that are resistant to the herbicide may also present special problems. 3. Plow-down applications

of fertilizer are impossible with zero tillage. Fertilizer must be spread before corn is planted or added in the row at planting time.

4. Soil type and management of the preceding sod crop may limit the use of zero tillage. Soil compaction by grazing animals, for example,



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