Minimum Tillage Corn Planting Studied By County Agri. Teacher

The advantages of "Minimum Tillage' for coin are not in higher yields but in time saved, reduction of production costs, lessening of soil compaction and crosion weed control and soil temperature changes according to Joseph McGahen a teacher of vocational agriculture at Manheim Central High School

McGahen on a years leave tillage of absence from the high. He cited research data from

minimum tillage means the lation figured in reduced yields prepare the soil for planting list of limiting factors was ber of trips over a field in was a factor in 117 per cent preparms a seedbed will ob- of the research plots viously save time labor and. Poor feitility can be corion in vield?

McGahen's paper titled tion can be adjusted easily portant the other benefits real- said improved soil structure and mum tillage studied soil and water conservation 1 Limited, plowing followperatures gained with mini- cultivation mum tillage enough to over- 2 Wheel track planting no come the disadvantages

the growing concern in the the seedbed tactors which seemed to be 3 Plow plant planter is eilmiting yields plus the effi- usually attached to the plow ciency aspects of minimum packer wheels of the planter

school list week presented a all 48 states which showed the paper during a seminar at the greatest limiting factor in Pennsylvania State University coin yields 36 low tertility in which he pointed out the which accounted for limiting advantages of working com production in 16 per cent of ground is little as possible the projects. Rainfall was the In his presentation. Mos limiting factor in 14 per cent Gohen and strictly speaking of the cases and plant popuuse of the rewest possible in 13 per cent of the trials number of field operations to In fourth position in the seeds. A reduction in the num-poor cultural practices which

production costs. But the rected by soil testing and question remains will these application of fertilizer Rainsavings be onset by a reduct-tall can be supplemented by musation, and plant popula-

' Minimum Tillage For Coin' Tillage is one of the poor question as well as how im- to lowered yields, McGahen

reduced weed control prob- ed by not more than one disclems and increased soil tem-ing or hairowing and one

tillage after plowing, (a) McGahen said his interest tractor wheels make the seedin the problem stemmed from bcd (b) planter wheels make



OFFICERS OF THE LANCASTER COUNTY Ayrshire-Jersey-Brown Swiss 4-H dairy club after their election Monday night are as follows: Seated L. to R., undertook to answer this cultural practices contributing R Edwin Harnish, Christiana R1, secretary; Joyce Kreider, Quarryville R1, president and representative to County 4-H Council; Jean Kreider, Quarryville R1, treasurer Standing, L. to R., Barbara Kupp, Manheim R3, song leader; Charly are Are the advantages of He listed five types of mini- lotte Weidler, Quarryville R1, news reporter; Marilyn Harnish, Quarryville R2, vice president, and James Esbenshade, Quarryville R2, game leader. Not present for picture was Lucille Kreider, song leader.

make the seedbed

planted

planter unit

McGahen, citing work he the standpoint of corn yields'

had done at Manheim as well Plowing at least once dur-4 Mulch tillage field is as the work of other research-ing a four year rotation resultdisced or chisled and then ers in many parts of the na- ed in higher yields than pretion concluded that "Much of paring all rotations with 5 Till planter consists if the prevailing secondary seel- mulch tillage

a set of shallow sweeps deep bed preparation appeared to. In two thirds of the tests, sweeps a rotary hoe and a be not only wasteful of time he found, minimum tillage and power, but actually from yields were greater. Neither (Continued on Page 14)

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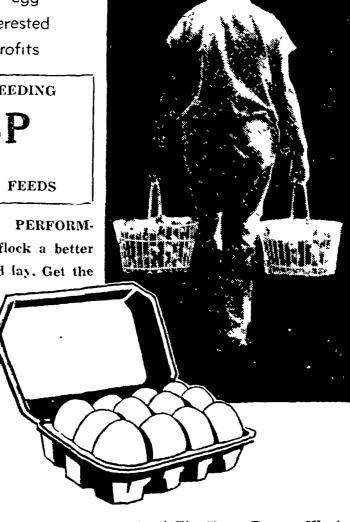
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