# Management and fertility studies unearthed

forages and corn will be County. among the wagon tour Ag Progress Days visitors features during Ag Progress will see the management

UNIVERSITY PARK - Days August 23 to 25 at the Research into management Rock Springs Agricultural and fertility practices for Research Center in Centre

### *Informative* exhibits featured

UNIVERSITY PARK - and Exhibits on a wide range of programs, sewage sludge agriculture - related topics usage, products made from will be featured at the 1977 corn, and agricultural Ag Progress Days. careers, says Carey. Ag Progress Days.

According to Harry A. and rural sociology at Penn cess, Apple making management decisions.

farmers both homeowners in Penn-Association. sylvania. Visitors to the exhibit tent will be able to get assistance from experts Days and there will be a on how to control these weed small charge for parking to

Also among the exhibits will be information on honeybees, forestry, solar nine miles west of State energy for greenhouses, soil College on Route 45.

Pennsylvania's best

plowmen will compete for

awards in two contests held

as part of the 1977

Agricultural Progress Days

at The Pennsylvania State

University's Rock Springs

Agricultural Research

"On August 23, about 25

contestants will compete in

in eliminations," said N. Henry

The State Plowing Contest

will feature three divisions:

contour; large plow, level

land; and small plow, level

land. Plowing will start at 10

Center.

winners

tension

engineer.

**Plowing** 

contests slated

UNIVERSITY PARK - presented at 3:30 p.m. the

the State Plowing Contest. Champions Contest will get

Wooding, Penn State Ex- small plow and large plow

All have been declared underway at 10:30 a.m.,

same day.

15 in Illinois.

agircultural divisions only and awards

county Wooding points out.

Food will be available on the grounds of Ag Progress help defray expenses. The Rock Springs Agricultural Research Center is located

Government and farm-

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testing

Carey, Extension exhibits related agencies will sponsor specialist, the departments displays including the of agricultural economics Pennsylvania Dairy Prin-Queen, State will have a display in Agricultural Soil Conaction that uses a computer servation Service, Crop terminal to demonstrate the Reporting Service, Farm use of linear programming Equipment Dealers farm Association, Nut Growers Association, Turfgrass Another popular Penn Council, Game Commission, State exhibit will include live Bureau of Forestry, Future speciments of common Farmers of America, Young weeds that are a problem to Farmers' Association and and the Horticultural

The following day, August

24. all plowmen who have

won state titles, this year

and in the past, will compete

in a special contest to

represent Pennsylvania in

the U.S. Plowing Matches

scheduled for September 14-

"This State Plowing

"Plowmen will compete in

will be presented at 3 p.m. at

The matches are under the

The Ag Progress Days site

direction of the State

Plowing Contest Committee.

is located nine miles west of

will

determine who

possiblities and productivity of various forage species and varieties, according to Dr. William C. Stringer, forage crop management researcher. Shown will be experiments with legumes and cool-season grasses. In general, these studies are managed to simulate hay harvesting or rotational

Stringer said tall fescue and Reed canarygrass have yielded best among the cool season grasses, followed by orchardgrass - with smooth bromegrass and timothy giving the lowest yields. However, timothy is usually the most digestible.

"Our goal is to take results from small plots such as you will see at Rock Springs, and at other locations over the state, and incorporate them into management systems on a large scale.

"The experiments have agronomists, animal and dairy scientists, economists, and engineers working together to determine the feasiblity of proposed management systems. By using good management

systems, farmers can in- lime and phosphorus. In 1976 crease meat and milk production from their land," he affirmed.

Visitors to Ag-Progress Days will see plots evaluating the effects of lime and phosphorus on yield and nutrient composition of notillage corn and alfalfa. Plots tilled with both a moldboard plow and a disk harrow, versus plots with minimum tillage from a disk harrow, will be compared for grain yields and nutrients in tissues.

Heading up these experiments is Dr. Jon K. Hall. Last year, said Dr. Hall, corn yields in the studies varied significantly with tillage treatment but not with application rates of study, no-tillage minimum tillage corn yielded 6 to 10 more bushels per acre than corn planted conventionally.

Other research at Ag Progress Days will show studies of nitrogen sources on no-tillage corn. Surface application of four sources of nitrogen is being compared urea, nitrogen solution, ammonium nitrate, and ammonium sulfate. A fifth source, anhydrous ammonia, is injected into the soil. Dr. Richard H. Fox and associates are testing the extent of nitrogen lost as ammonia gas from the five nitrogen sources.

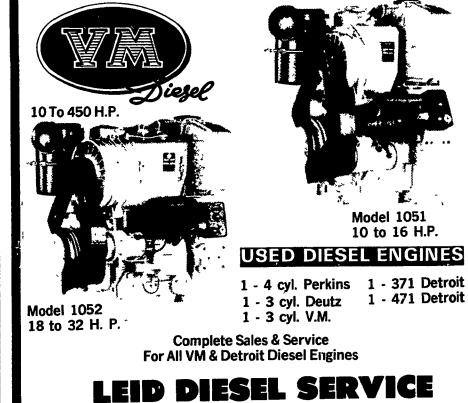
Visitors August 23 to 25 will see plots where nitrogen was

applied to no-tillage corn at zero, 45, 90, and 180 pounds per acre. Dr. Fox indicated that rains falling soon after the fertilizer is applied reduce greatly the chance for losing nitrogen gases.

Nitrogen sources for notillage corn in 1975 and 1976 were compared for 20, 65, 110, and 200 pounds of total nitrogen per acre. There were no yield differences among nitrogen sources either year because of rain that fell within two days after nitrogen was applied both years. Maximum yields were obtained with 110 and 200 pounds of nitrogen per acre both years.

Ag Progress Days is the largest outdoor agricultural event of its type in the East.

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