Excessive Manure On Farm Crops Can Affect Water Supplying manure to the cautioned recently. The Bartlett found that large

Growers Plan Grape

Tour Here

A grape growers tour and spraying techniques will be

vineyard equipment and Association, and \$6 for non-

grape growing techniques members. Reservations

trellis erection and various E. Grape Industry Assoc.,

planting, cultivation, and Box 35, Brogue, PA 17309.

requirements can add nitrates to groundwater above potable water standards, scientists with the Agricultural Experiment

land in excess of crop occasion was the 3rd International Symposium on Livestock Wastes April 21 to 24 at the University of Illinois.

From five years of ex-Station at the The Penn- periments, Dr. L. F. sylvania State University Marriott and Prof. H. D.

annual injections of dairy manure slurry under the surface of orchardgrass sod will continue to release high amounts of nitrogen to a crop already over supplied.

The studies were made to determine what happens under Pennsylvania soil and crop conditions when concentrated livestock

picnic have been set for

Saturday, May 17, beginning

at Lancaster County's

Pequea Valley Winery,

Willow Street. The bus tour

will start at 12:30 a.m. In

case of rain, the event will be

held the same time and place

on the following Saturday,

Demonstrations of

will be held in two area

vineyards. Post driving,

operations use the land for engineering. manure disposal. Dairy manure slurry was applied with commercially manufactured injection equipment for liquid manure tank spreaders. Dr. Marriott is associate professor of soil fertility at Penn State and

Professor Bartlett is professor of agricultural

demonstrated. Tentative

plans include a demon-

stration of an automatic

After the tour, the buses

will return to the winery for

a chicken barbecue. Cost fer

the tour and barbecue is \$4

for members of the

Southeast Grape Industry

must be made by May 8 with

J. E. Savolaien, treasurer, S.

grape picker.

Disposal rates of manure slurry ranged from 120 to 600 tons per acre yearly for three years. The lowest rate supplied 700 pounds of nitrogen per acre per year. Two years after the application were discountinued, the Penn State scientists sill found nitrate nitrogen in the soil water in excess of 10 milligrams per liter, the potable water standard. This was found at a depth of 4 feet where the lowest rate has been applied.

The Penn Staters did find that more modest levels of manure slurry contributed relatively low amounts of nitrate to groundwater. Fifty to 80 tons of slurry per acre, supplying 300 to 500 pounds of nitrogen per acre, were injected under orchardgrass sod in November 1973 or in April 1974 to compare fall and spring applications.

Nitrate nitrogen from the fall application had moved down 4 feet in soil water by June of 1974 but remained near the potable standard of 10 milligrams per liter after July. The nitrate nitrogen from spring applied manure

exceeded milligrams per liter during the growing season.



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