

Fertilizer Help Available

Tools and analytical procedures which farmers can use today in planning and deciding the kind and amount of fertilizer for the best use of money and fertilizer on a particular field and specific crop are available. "These tools include soil tests, research data on crop response to fertilizer, worksheets, and in some states, even computer programs," report Buel Lanpher and Harold Owne, farm management and agronomy specialists, Extension Service, U.S. Department of Agriculture. The combination of tight fertilizer supplies, higher fertilizer prices, and variable returns from different crops makes it more important than ever that farmers utilize these decision-making aids in planning for the 1975 crop year.

Some states are using new computer programs which are available by remote terminal to help make decisions on fertilizer use have been developed.

Michigan State University, Cooperative Extension Service specialists have developed a computer program which calculates the most profitable nitrogen fertilizer rate to apply to maximize income for corn. This computer technique also indicates how a restricted supply of nitrogen fertilizer might be allocated between fields to obtain optimal results. Michigan has also prepared some worksheets for individuals to use fertilizer to maximize income from corn and soybean acreage combinations.

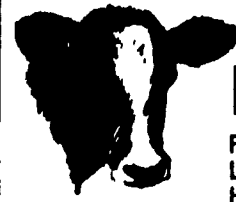
Virginia Polytechnic Institute and State University, Cooperative Extension Service staff developed a computer program which provides a simultaneous solution to the rate of nitrogen fertilizer per acre that should be applied to corn on five different soil productivity groupings, and the optimum combination of corn and soybean acreage. This computer program is stored on the computerized management network (coordinated by VPO staff).

Tables to help plan optimum nitrogen rates for crops are now available. For example, Kansas State Cooperative Extension Service has recently prepared tables to help farmers select optimum rates of nitrogen to apply to the soil producing wheat, corn, or grain sorghum. The corn and grain sorghum tables are based on response data of these crops produced under irrigation. Kansas agronomists state efficient use of nitrogen on wheat in the Plains States should be based on soil tests for residual nitrogen. A test lets

the farmer include nitrogen available in the soil in calculating the amounts of nitrogen to add.

Worksheets have been developed by several states which can be used to compare several fields or crops with the objective of obtaining an equal return for the last marginal increment of fertilizer applied to each field and-or crop. Successful use of these planning and decision-making techniques depends heavily on the farmer's understanding of production response curves, i.e. the increased yield expected for additional amounts of fertilizer. The farmer needs to make accurate estimates of yield responses expected from his particular fields and crops. Cropping history, soil

treatment records, soil tests, soil surveys, and the farmer's knowledge and experience are valuable aids in the planning and decision-making process.



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At 7:00 P.M.

BLUE RIDGE LIVESTOCK SALES, INC.

Charles Town, W. Va.

Billy F. Owens, Mgr. Phone: 304-725-5021

CONSIGNMENT SALE SATURDAY, DECEMBER 21 9:30 A.M.

Location: 1/2 mile north of Route 23 on North Maple Ave. in Leola, Lancaster Co. Pa.

WATCH FOR SALE SIGNS.

TRACTORS — 2010 John Deere Crawler with loader; Melroe Bobcat. FARM MACHINERY — John Deere 24T Baler; 6 bottom Int. plow automatic reset; 2-3 bottom plows, 3 pt. Hitch; Wagon with hydraulic dump; 10' cultimulcher; Easy-Flow lime drill; Int. pull type grass mower, like new; Int. 2-row corn planter; New Idea late model Hay Conditioner; Horse drawn implements; Nails 8-10-12-16; lots of lumber, plywood, red oak house flooring (new), lot of doors, nice pool tables with 3/4" slate bottom, new hardware and tools, etc., etc.

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Next Sale Wednesday, Jan. 15, 1975

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For further information, contact Reggie Reynolds, 703-992-1009

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THURSDAY, DECEMBER 12

LANCASTER, PA.

Sale held at the Guernsey Sale Barn on Rte. 30 only 4 miles East of Lancaster, Pa.

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SEE NOV. 25 HOLSTEIN WORLD AND PA. HOL. NEWS
FOR MORE PICTURES AND DETAILS!!

Sale must start 11:00 A.M.

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