

## Mulches reduce erosion in no-tillage

UNIVERSITY PARK — No-tillage is one of the most effective management systems for reducing erosion losses in agriculture, as shown by crop scientists at Penn State University.

The Penn Staters have found that certain mulches in no-tillage corn can reduce runoff water on sloping land by as much as 98 per cent, compared to erosion from conventionally tilled land. In addition, soil losses can be reduced by nearly 100 per cent.

Equally important, losses of cyanazine herbicide were reduced by as much as 97 per cent, declared Dr. Jon K. Hall of Penn State's Agricultural Experiment Station. Dr. Hall addressed annual meetings of the American Society of Agronomy August 6 in Fort Collins, CO.

Dr. Hall and associates are studying the effectiveness of cornstalk residues and two "living mulches," birdsfoot trefoil and crownvetch, in reducing erosion and herbicide runoff. A "living mulch" is not killed, but regrows for use with future no-tillage crops. Herbicides are vital in

getting no-tillage corn established, it was pointed out, since they hold back growth of the "living mulches" and control weeds while the corn seeds are germinating and during early corn growth.

Springtime success of cyanazine or other herbicides in controlling crownvetch and birdsfoot trefoil depends largely on rainfall, Dr. Hall said. Lack of rain reduces the herbicide's effect and allows these legumes to dominate early corn growth, delaying corn maturity and reducing yields.

Despite excellent erosion control, corn yields have been lower with the "living mulch" legumes than on plowed surfaces. For example, in 1978, with adequate suppression of "living mulches," no-tillage corn produced 121 bushels per acre in birdsfoot trefoil and 100 bushels per acre with crownvetch. Untilled fields mulched with cornstalks averaged 121 bushels per acre. Conventionally planted corn averaged 129 bushels per acre.

Of the two "living mulches," birdsfoot trefoil

looks the most promising for no-till corn management, Dr. Hall observed, since it competes less with corn than does crownvetch. Moreover, single applications of cyanazine are more effective in suppressing initial growth of birdsfoot trefoil than of crownvetch.

"Our results do not exclude the use of crownvetch as a 'living mulch' for no-tillage corn," he stated. "High corn yields can be achieved in crownvetch, especially where atrazine, simazine, or dicamba are included in the spray program."

He concluded that more research is needed to achieve the most favorable crop yields, blended with conservation, in using "living mulches" on untilled sloping land.

He claimed the studies should stress three aspects: (1) herbicide rates and combinations must be defined, (2) the most favorable soil fertility conditions must be determined for the "living mulch" and the crop, and (3) soil and crop management practices consistent with maximum corn production should be developed.

### CONSIGNMENT SALE OF FEEDER PIGS & FEEDER CATTLE

FRIDAY, AUGUST 17, 1979

6:30 P.M. Sharp

Held at Keister's Middleburg Auction Sales Inc., Rt. 522, 3 miles east of Middleburg, 5 miles west of Selinsgrove, PA.

Early consignments appreciated.

Bring a load - buy a load.

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717-837-2222 — 717-524-5285 — 717-966-2856

Terms: Cash. Restaurant open.

KEISTER'S MIDDLEBURG AUCTION SALES, INC.

Rt. 522, RD #3, Middleburg, PA.

DON & WALT KEISTER

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### C. H. WOLGEMUTH & SONS

## PUBLIC SALE

### FALL FARM EQUIPMENT

At our place of business 4 miles West of Manheim, Lancaster Co., Pa. 1 mile West of East Fairview Brethren Church on Valley Rd. just off Hosler Rd. 10 Minutes from Rt. 283 and 15 min. from Pa. Turnpike Exit 20. Look for sale signs.

THURSDAY, AUGUST 30

AT 10:00 A.M.

TRACTORS: John Deere, Ford, A.C., Farmall, Oliver and others of various size, some with equipment. Several trucks expected. Forage harvesters, one and two-row pickers, Blowers, Elevators, Wagons, Combines, Mowers, Rakes, Conditioners, Drills, Spreaders, Plows, Discs, Packers, Rotary cutters, Blades, Hardware and the usual run of equipment. Anything sold on commission. Cousin w/Dry Goods.

FARMERS AND DEALERS: Bring in your equip. early for this sale. Open to receive goods August 20 till sale day, 8 to 6. Saturdays 8 to 5.

TERMS: Cash; Lunch at Sale; Closed Sundays.

Clyde H. Wolgemuth

Szie Manager

Phone (717)665-5664 Manheim, R.D.2, Pa.

## DAIRY DISPERSAL

FRIDAY, AUGUST 17

7:30 P.M. Sharp

Located at the Jack Wood Farm on Taylor Valley Rd., 3 miles north of Cincinnatus, off Rt 26. Watch for auction arrows.

### 88 - GRADE & REGISTERED CATTLE - 88

#1 Due to ill health, we are selling the complete dairy of Alan Freeman, Kyler, NY. This is a fall freshening dairy, mostly due to calf Aug., Sept., Oct., & Nov. The balance in various stages of lactation. This dairy will respond well to new owner with proper feed care.

#2 Also selling 20 fresh and springing cows from 1 farmer. They are exceptional cattle, must be seen to be appreciated.

#3 Another group of springing and first calf heifers, a good selection.

#4 Selling 3 kid goats.

Manager's Note: This is a nice group of cattle, all vet. examined for pregnancy, shipping fever and leptos. TB and blood tested, ready for shipment day of sale.

Terms: Cash or good check. Lunch Available.

Jack Wood's Livestock & Auction Service

Sale Managers

Cincinnatus, NY 13040

607-863-4141

MABEL ADAMS

## FARM AUCTION

FARM EQUIPMENT, SHOP EQUIP., TRUCKS, GAS ENGINES, ANTIQUES

THURSDAY, AUGUST 16

AT 10 A.M.

Along Rt. 100, 1/2 mile south of Fogelsville, Lehigh Co., PA.

Farmall 560 gas tractor, TA; Farmall M (nice); Farmall M WF (as is); Farmall H (nice); Horn front end loader; Ford 9N tractor; Oliver 88 tractor; MM-U tractor, cult. for same; Caterpillar D2 crawler (nice); MC 2 MH corn husker; Oliver #4 2 row mtd. husker; Cockshutt 10' SP combine; MC #70 4 bot. plow; (2) MC 3 bot. plows; JD 3 bot. plow; MC 10' transport disc; 10' cultimulcher; 10' single & dbl. roll cultipackers; (2) 5' single cult. exts.; (3) 3 bot. plow packers; 7' disc; 7' offset disc; 4 sec. harrow; JD 494 corn planter; Ferg. 3 pt. 2 row corn planter; JD 17 single disc grain drill; (2) 4 row weeders; 4 row rotary hoe; Meyers mower hay cond. comb.; MC 7' mower; NI 7' mower; (2) Ferg. 3 pt. PTO rakes; AC 4 bar rake; Black Hawk 4 bar rake; (3) NH 77 wire tie balers, (2) PTO; Joliet lg. stationary ear corn sheller; DB & NH corn shellers; (2) King Wyse elev.; Little Giant drag elev.; gravity wagon; (8) 4 whl. farm trailers; potato grading equip.; (2) sm. bin stackers; (2) old potato planters; J. Bean rotobearer; seed cleaner; saw buck; pull type road grader; 2 row stalk shredder; platform scales; 18' 6" grain auger; Onan 3000 watt gen. w/gas engine; acetylene outfit & buggy; Peerless 10 ton press; blacksmith forge & tongues; 60" metal lathe; valve grinder; 3 & 2 hp single phase motors; (2) 1/2 ton chain hoists; drill press; 3/4" socket set; second hand lumber; snow fencing; lot of horse single & double trees; work horse harness; lot of iron yard fence; kit. wood stove; lot of one room oil heaters; 3'x5' dbl. dr. safe; lg. dinner bell; (3) school house pot belly stoves; water cooled gas engines; Jaeger 2 hp, Cushman 1 1/2 hp, Associated 2 1/2 hp, Cushman 4 hp; spool rope bed & others; oak hall rack; rd. claw ft. ext. table; rd. dropleaf table; old radios; theater seats.

TRUCKS: 1950 Dodge 1/2 ton pickup; 1941 Int. truck tractor w/67,000 original miles & 20' single axle trailer 18,000 G.V.W.; 1950 Intl. 150 truck, 7:50x20 tires. Plus many more articles.

Terms: Cash or check at auction. Refreshments served.

Sale Conducted By,  
RALPH W. ZETTEMAYER AUCTION CO.  
R.D. 1, Breinigsville, Pa.  
Tele: (215) 285-4616

## PUBLIC SALE

OF VALUABLE REAL ESTATE

NOTICE IS HEREBY GIVEN that pursuant to an Order of Court dated June 19, 1979, real estate owned by Charles D. Moad and Rebecca J. Moad, will be offered at Public Sale at the premises located 2 1/2 miles Northeast of McClure and joining the Indian Run Golf Course in West Beaver Township, Snyder County, Pennsylvania, on August 25, 1979, at 10:30 o'clock A.M., E.D.S.T.

To get to the property take Route 54023 North from McClure to the crossroads at Baker's United Methodist Church, turn left on Leg. Route 54047, and the property is the fourth farm on the right.

The real estate consists of two tracts of land containing approximately Ninety (90) Acres, on which is erected a 2 1/2 story frame dwelling house, with new siding, modern kitchen, living room, laundry, foyer, 1 bath, 4 bedrooms, new 2-car garage, frame barn, and large farm pond.

This property is in a beautiful rural setting, and approximately 74 acres of tillable land.

Terms: Purchasers bidding on the Real Estate must be prepared to pay 20% of the purchase price down in cash at the time the property is struck down & sign an agreement to pay the balance when possession is given on or before 30 days & delivery of the deed.

For further information contact either:

Larry E. Knepp, Esquire  
14 North Main Street  
Lewistown, Penna. 17044  
Phone: 248-5451  
Charles J. Ax, Jr., Esquire  
14 South Main Street  
Middleburg, Penna. 17842  
Phone: 837-0086  
Jack L. Wagner, Auctioneer

## PUBLIC SALE

FARM MACHINERY, TOOLS, HOUSEHOLD ITEMS, ANTIQUES

SATURDAY, AUGUST 25

At 10:00 A.M.

Located 2 miles south of Quarryville off 472, west along Stuart Run Rd.

D C CASE TRACTOR  
FARMALL A TRACTOR;  
CULTIVATORS, PLOW

Disc Harrow; 3 Section Spring Harrow; Sm. Ferti. Spreader; 2 Wheel Trailer; Roller; Snow Blade; Cultivators for AC Garden Tractor; Wheelbarrow; Marker; Scraper; Shovel Plow; Planter Rototiller; 32 ft. Ext. Ladder; Ladders; Saw Horses; Snap Cuppler; A.C. Servis Blade; Milk Can; 2 Wooden Barrels; Wooden Pulleys.

160 AMP Ergolyte Electric Welder; Welding Rods; Foley Filer & Jointer; 1/2 Ton Over Head Dolly; Elec. Grinder; Motors; 1/2 in. Drill Press; Hyd. Jack; Floor Jack; Shad Belly Saw; Cross & Cut Saw; Jig & Circular Saws; Grindstone; Pedal Grinder; Blacksmith Drill; Submersible Pump; Hand Pump; P & Bean Scales; Mason Tools; Tool Boxes; 2 Creepers; Oil Pump; Hyd. Pump; Shop Vacuum Cleaner; Pipe Wrenches; Log Chains; Digging Iron; Shovels; Brush Axe; Roofing Tin; Endless Belts; Odd V Belts; Valve Lifters; '47 Dodge Head; Spring Spreader for Old Ford; Case Magnidas; Odds & Ends of Wrenches; Scrap Iron; Cast Iron Door for Fireplace; Cast Iron Floor Register; Nuts; Bolts; Strap Hinges; Army Saddle & Harness.

Kitchen Cabinet w/Flour Bin; Double Maple Bed w/Mattress & Spring; 2 Chest of Drawers; Wash Stand; Organ Chair; Homemade Chest; National Sewing Machine; School Desk; Chunk Stove; Apple Butter Stirrer; 1/2 Peck Measure; Crocks; Lantern; Wooden Bucket; Home Made Picnic Table; Filing Cabinets; Baskets; 7 Piece Breakfast Set; Esco Chest Freezer; Wringer Washer; Metal Cabinet; Porch Glider.

More items too numerous to mention. Not responsible for accidents day of sale. No out of state checks accepted.

Sale by,  
HAROLD & ALTA STRAWSER

Auctioneers, Lloyd H. Kreider & Randal V. Kline

Apprentice, Gary L. Shirk

Lunch by Quarryville Fire Aux.

