

Lime in Fall avoids compacted soils

NEWARK, Del. - If plant roots or helpful soil organisms could talk they might shout something like "Get off!" or "I can't breathe!" whenever a heavily loaded lime or fertilizer truck passes over the field on a late winter or spring day. The oxygen they need for survival is forced out of the soil as pores or air pockets collapse from the weight of the heavy equipment.

Roots need oxygen if they're to develop energy needed to push through the soil to secure nutrients and water, warns University of Delaware extension agronomist Dr. William H. Mitchell. Without a plentiful supply of air, soil bacteria will even turn to fertilizer materials such as nitrate nitrogen for their oxygen supply. Having lost some of its oxygen, the nitrogen becomes unstable and escapes into the air. Now the plant roots have lost both badly needed oxygen and nitrogen. They can't function well and the end result is a yield loss.

If the lime or fertilizer truck had passed over the field at some other time—almost any other time—the result would have been less damaging, says Mitchell. In late winter or early spring the soil is moist, soft and loose as a result of winter rains, cool weather and freezing-thawing action. It is more easily compressed or compacted than at any other time of year.

These are the days to work at your desk, order the garden seed or repair equipment. But stay off the land!

If you can remember following the plow and a pair of horses, you will recall how the soil stuck to your boots when it was too moist for working. Now you're in a cab many feet above the ground and the condition of the soil isn't as obvious to you. And of course you have flotation tires, duals, 4-wheel drive and plenty of power. So a little sticky soil may be shrugged off as a minor nuisance. But the best evidence from research tests and farm experience suggests that serious yield losses may result from such traffic on loose soils in the spring.

Compaction rarely occurs on dry soil. For this reason soils are generally less vulnerable in the fall than during the late winter and early spring.

No-tillage methods will reduce the amount of equipment traffic, which is a decided advantage for this type of cropping system. But even no-tillage fields can be damaged by heavy equipment, if the soil is loose and moist, cautions the agronomist.

Since lime applied in the late summer or fall will generally be accompanied by less soil compaction than when applied in the spring, he recommends you plan to put it down following your crop harvest.

Phosphorous and potassium fertilizers can also be truck-spread in the fall since there's no danger of leaching losses, even on sandy soils. Again, there will be less compaction than would occur if you delayed the job until March or April.

PUBLIC AUCTION

**OF BRED HOLSTEIN HEIFERS
TUESDAY MORNING,
SEPTEMBER 4, 1979**

Turn off Rt. 562 at Reading Pet Cemetery, near Stonersville, travel 1 mi. south, near Daniel Boone Homestead, Amity Twp., Berks Co. Watch for signs.

23 head of Holstein bred home raised grade heifers, some fresh or near fresh by day of sale, others due to freshen this fall, just recently TB & Blood tested.

The entire milking herd was sold a year ago, all with DHIA records. Some cows milked 80 lbs. when fresh, herd average or 4%. The above heifers are from that milking herd. Jamesway 400 gal. milk tank w/3 HP compressor.

**SOLD FOR:
EVERETTE REED**

Sale at 10:00 A.M.

John D. & George D. Frey, Auct.

PUBLIC AUCTION

**OF ANTIQUES, HOUSEHOLD GOODS
SAT., SEPT. 8, 1979**

10:00 A.M.

To be sold on the premises at 176 East Main Street, Bareville 17540, Upper Leacock Township Lancaster County Pennsylvania, 12 miles East of Lancaster along Route 23.

Pine 2 pc. corner cupboard w/12 panes; claw foot stand; victoria table; mahogany wall table; round oak table w/6 boards; square oak table, claw foot card table; Empire bureau w/vaseline knobs; cherry drop leaf table w/drawer; 6 bowed back plank bottom chairs; 6 paneled plank bottom chairs; 4 painted chairs; spindle back rocker; old platform rocker; wicker rocker; oak library table; flour chest; umbrella lamp; O.G. mirror, 3 cloth trees; jelly cupboard, old pictures; foot stools; benches; and irons; fire place screen; oak pottier chair; iron bull dog; wash stand; 2 drawer walnut blanket chest, grained blanket chest; 3 pc. oak bedroom suite; oval mirror; 5 pc. bedroom suite; night stand; pineapple 4 pc. maple bedroom suite; chifferobe; knee-hole desk; Governor Winthrop desk; office desk and chair; cedar chest; piano and bench; sm. rocker; platform rocker; swivel rocker; 6 dining room chairs; Windsor arm chair; 2 toy boxes, sm. tables, mahogany rocker; electric Singer sewing machine; 2 electric heaters; single box spring and mattress; 3 double box spring and mattress; sofa; 4 pc. living room suite; floor lights; play pen; ironing board.

China and glassware: pressed glass, Nippon, Roseville; satin glass vase, chicken on nest; 2 blown wine bottles; early milk pitcher; 2 lg. compotes; pattern glass; german dishes; glass basket; ironstone wheat tea pot; 3 pc. set wedgewood ironstone teapot, sugar and creamer; depression glass; German china dinner set, w/service for 12; Japanese china dinner set, w/service for 12; 2 sets silverware, service for 12 w/chest; silverware; cut glass water bottle; 10" Carnival glass dish; crockware; 2 brass bells; milk glass; books; set of Postoria juice glasses; sherbets and water glasses; complete set of stainless kettles; cookie sheets; roast pans; iron kettle; wheelbarrow; trussels; lawn mower; gas can; step ladder; bu. basket; tools; 2 wooden porch chairs; lawn bench; ladders; rug runners; 10 by 12 pattern rug; 9 by 12 rug; electric mixer; Frigidaire frost proof, 1 door deep freezer; apple butter stirrer; 1 solid cherry hutch; 1 maple hutch; 6 oak kitchen chairs; 10 metal folding chairs; oak rockers; solid wood end tables; 3 recliners, 1 with vibrator; 2 living room suites; sofa bed; electric refrigerator; 30" electric stove; many items too numerous to mention.

CASH, NO OUT OF STATE CHECKS.

Terms by:
**CHARLES K. BUCH
ELLA M. HARRY**

Auctioneers
Roy L. Martin
Charles H. Bachman
Food Available Not Responsible for Accidents

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PUBLIC SALE

**OF VALUABLE REAL ESTATE
SATURDAY, OCTOBER 6, 1979
2:00 P.M.**

Located six miles east of Ephrata, four miles northeast of Route 322, two miles northeast of Hahnstown. East Cocalico Twp. Lancaster Co. Penna.

Eight ACRE FARM

8.35 acres 338' road frontage. BRICK HOUSE, like new, built nine years ago; 30' x 48' with 12' x 22" extension. 8' x 26' porch.

Seven rooms and bath; laundry room and enclosed porch; Large 15' x 28' kitchen; living room; Five bedrooms each with closet; basement with concrete floor, separate cold cellar; outside entrance.

Well with pressure system; Permethield thermal pane windows.

Take time to inspect this well-built house.

Frame 32' x 40' hip-roof barn; attached 18' x 28' work shop and garage with 12' x 28' lean-to roof; Farrowing house 18' x 30' with six farrowing stalls; 12' x 36' chicken house; 12' x 14' brooder house.

Inspection of property Sept. 8, 15, 22, from 1:00 pm to 5:00 pm

JOSEPH M. BRUBAKER

Sale at 2:00 P.M.

Abe Diefenbach, Auct.

PUBLIC AUCTION

**Valuable Real Estate
2 1/2 Story Dwelling Situated
on 1 3/10 acres +/-
SATURDAY, SEPTEMBER 22**

11:00 A.M.

Located off Rt. 322 in Honey Brook turn on Suplee Rd. 2 1/2 miles to Dampman Rd. Turn on Dampman Rd., 1 block to driveway. Honey Brook Twp., Chester Co., PA. Watch for sale & inspection signs.

Real Estate consists of 2 1/2 story frame dwelling w/vinyl siding & insulation. 1st Floor - Modern kitchen w/GE dishwasher, GE double oven stove & wall to wall carpet, dining room, wall to wall carpet & built in closets, large living room, wall to wall carpet, open stairway, laundry room.

2nd floor - 3 bedrooms, bathroom, TV room. Attic, basement, lovely front porch, oil fired hot air heat, never failing well w/electric pump, storm windows & doors, 2 story frame 2 car garage w/siding & work shop area.

Macadem drive, picturesque country setting w/mature shade & shrubbery & beautiful manicured lawn. Approximately 3/4 acres pasture land, excellent board fence w/small shelter good for horse or steer. Many, many other extras not listed.

In the Twin Valley School District w/good country living.

INSPECTION - Saturday, Sept. 15 - 1 to 4 p.m. or by appointment - 215-286-5744. 15% deposit time of sale, cash or approved check. Settlement 45 days on or before. If interested in buying Real Estate this is one you should inspect & come to buy at Public Auction.

Write or phone for brochure.

By order of,
HARVEY & RUTH WELSH

Auctioneer
William March Jr.
Elverson, PA 19520
215-286-5744

Preston Ware is named to ASA board

ST. LOUIS, Mo. - Preston Ware, who raises 450 acres of soybeans, has been named to the Mid-Atlantic Soybean Association (ASA) Board of Directors. Ware replaces Olin Gooden of Woodside, Delaware, who has represented mid-Atlantic soybean producers on the ASA Board of Directors since 1970.

Ware, who raises 450 acres of soybeans, has been a member of the Mid-Atlantic Soybean Association for six years and is a member of its board of directors. He is currently involved with promoting the passage of the upcoming New Jersey grower investment checkoff referendum.

ANTIQUE AUCTION SATURDAY, SEPTEMBER 8

9:30 A.M.

Lititz Recreation Center, Lititz, Pa.

Spatter, Leeds, Lehn. Late Adams, leaded glass, Moravian Star, country and period furniture, decorated stoneware, tin, pewter, iron, primitives, oriental rugs, flow blue, Steely chair, colored-clear and pattern glass, redware, pictures, prints, Edison players and horns.

This is quality merchandise - will have over 400 lots! Catalogue available. S.A.S.E. please.

Richard P. Murry, Auctioneer

10 S. Broad St.
Lititz, Pa. 17543
626-8175

R.D. #1
Newmanstown, Pa. 17073
1-949-2280

PUBLIC SALE

**OF FARM EQUIPMENT
MONDAY, SEPTEMBER 3, 1979
at 11:00**

Located 3 miles East of Elizabethtown, 1/2 mile South of Risser's Mennonite Church, along Milton Grove Rd.

Allis Chalmers 5050 Deisel (w) 450 hrs., Ferguson 30 Tractor, Ferguson 3 pt. 1 bottom plow, hay rake, Oliver 1 row cornpicker, Oliver grain drill, N.H. #328 spreader (w) endgate, Ford #314 plow, Int. #370 disk, 10' transport disk, Dunham 13' cultipacker, 10' cultipacker, Mohawk shredder, 12' spring harrow, 3 section harrow, trailer tandem axle (w) 12' bed, 12' roller, 3 T. feed bin (w) auger (like new), portable generator 25 K.W. (like new) M.D. corn sheller, J.D. PTO corn sheller, 1 hole corn shellers, McCurdy gravity wagon, gravity box, 16' flat wagon, horse drawn hay tedder, running gears for bob sled, 2 seated sleigh, sides for Conestoga covered wagon, 1/2 H.P. air compressor, elec. motor, PTO grass seeder, elec. grass seeder, half cab for 350 Farmall, bumpers/pulleys/sliding draw bar for Ford tractor, 1 horse cultivator, walking plow, platform scales, circular saw, forge, 8,000 tab lathe, tab presses, tab celler stoves, 18.4x34 duel wheels, hand crank windmill, straw cutters, iron/wooden wheel barrows, ground scope, extension ladder, iron troughs, manure hook, wooden feed chests, log chains, single/double trees, grain cradle, hand clover seeder, grain/manure forks, shovels, jack, hog feeders, garden tractor, 21" lawn mower, ringer washer, 2 iron butchering kettles, meat grinder, scalding troughs, 2 man saws, firewood, tools, bolts, nails, lots of other small misc. items.

Sale by

AMOS L. & ELIZABETH M. RISSER
367-3882

Aucts. Raymond Miller 653-8762
Rufus Geib

Lunch by Youth of Risser's Mennonite Church
Not responsible for accidents.