

# 'Plants per acre' urged for soybean fields

BLOOMINGTON, Ill. — Being on the high side of the optimum population can result in lodging, which means a grower will be forced to leave more beans in the field at harvest. In addition, high populations mean greater stress on the plants and reduced overall performance and yield, Laible explains.

That's the average increase Dr. Charles Laible, manager of soybean research for Funk Seeds International, feels most growers would realize by using this more precise planting method. In many cases, it could mean substantial yield differences because soybean seed size often varies greatly. A common belief among farmers is that the soybean is a versatile plant with the ability to compensate for most planting errors. Laible disagrees: "The problem is that this compensating ability takes the form of branching out at the bottom."

Laible urges soybean growers to calibrate their planters or drills to establish a specific plant population, instead of planting the usual pounds per acre.

What rates are best? Laible recommends 175,000

plants per acre for standard varieties in standard rows. That would be about 10 seeds per foot in 30-inch rows. For the newly developed, shorter varieties in narrow rows of 10 inches and less, he recommends 215,000 plants per acre. That's about four seeds per foot for 10-inch rows, and three seeds per foot for 7-inch rows.

Allowance should also be made for the percentage of non-germinating seeds when calculating the number of seeds per foot of row, Laible says. He adds that a grower's particular growing conditions and yield expectations must also be taken into account when deciding plant population.

Planting by plants per acre won't do any good if a grower is careless about other planting accuracy practices, Laible cautions. So, he gives the following tips to help achieve better soybean stands and subsequent yields:

Plant early. Soybeans shouldn't be treated like a second sister to corn. Studies at Ohio State University have shown that soybeans respond to early planting with a similar percentage increase in yield as corn. Unless there are equipment change-over problems, growers should give

soybeans a chance at bigger yields by planting earlier.

Many of the newly developed varieties are bred for higher vigor, allowing earlier planting. It is best to ask the seed supplier about vigor, however, before moving the planting too far into the cool, wet weather of early Spring.

Tighten up those rows. The arguments for narrow rows and solid seeding get stronger each year. One is the better weed control that is possible today. Another is the availability of new varieties specially bred for narrow-row and solid-seeding culture. And, more equipment is now available for planting narrow rows, including new drills specifically designed for uniform seeding of soybeans. Making the switch to narrower rows has paid off well for many growers.

Prepare the seedbed adequately. Having a smooth, mellow seedbed is especially important if soybeans are planted with a conventional drill that is not heavy enough to assure uniform planting depth. Large clods in the seedbed can make the drill runners bounce up and down. One way to avoid this is to pull a

(Turn to Page 160)

## PUBLIC REAL ESTATE AUCTION VALUABLE FARM APPROXIMATELY 92 ACRES MORE OR LESS

ESTATE OF MARY W. ARCHER

To be offered for sale on the premises 3 miles East of FAWN GROVE, PENNA. Via Route No. 851 turn right on GROSS ROAD to first farm on right in FAWN Twp., YORK COUNTY, PENNSYLVANIA. (Arrow signs posted)

**FRIDAY, MARCH 2**

2:00 P.M.

**REAL ESTATE**

Consist of an Outstanding 92 acre farm more or less, improved by a 2½ story frame dwelling with slate roof including kitchen, wall to wall carpet, family room and powder room on first floor, open carpeted stairway leading to 4 spacious bedrooms some with closets and full bath on second floor, the attic is floored and plastered, basement with outside entrance and has oil fired radiator hot water heating system with approx. 500 gal. oil tank, front and side porch; there is a large slate roof bank barn with milk house; 3 car block garage; machinery shed with slate roof and chicken house and other out buildings. This farm has approximately 65 acres of quality farm land and is in a high state of cultivation, the balance in pasture & woods; it has approximately 1 mile of road frontage on Gross Road & Route #851, this farm is very well located to schools, churches, stores and other conveniences. INSPECTION BY APPOINTMENT. Phone: (301) 692-5667 & 996-2424.

Not Responsible For Accidents Day of Sale.

TERMS: CASH or CASHIER'S or CERTIFIED CHECK will be required of purchaser day of sale in the amount of \$15,000.00 made payable to GILBERT G. MALONE. Possession at settlement which shall occur on APRIL 6, 1979.

**JAMES H. ARCHER, JR.**  
EXECUTOR

AUCTIONEERS:

Charles W. Shrodes

David W. Shrodes

Phone: (301) 692-5667

996-2424

Gilbert G. Malone - ATTORNEY

## PUBLIC AUCTION

**VALUABLE GRAIN FARMING  
EQUIPMENT; TRUCK  
THURSDAY, FEBRUARY 22**

At 10:30 A.M.

Between Kutztown & Reading, 1½ miles South of Moselem Springs (at Keller Mobile Homes & Sales) turn West off Rt. 222 onto Richmond St. for 1½ miles to farm, Richmond Twp., Berks Co. PA.

Gleaner F2 combine w/brand new 13' grain head & 4-30" cornhead, equipped w/heater, air & hydro static drive, only 442 hrs.; JD 3020 diesel trac. w/syncro trans. & yr. around cab w/heater; 3 sets rear weights; JD 3 btm. 14" pl; Miller 8½ disc; Graham 9' chisel pl; Hugo 11' roller harrow; AC Model 600, 4 30" row no till air planter w/new 77 series planter units & monitor; 4 AC 70 series tool bar planter units; John Blue 400 gal. stainless tank liquid fertilizer sprayer w/L-3000 pump & split boom control; new foam marker for sprayer; JD 14-T baler; JD 13 double disc drill; 8' tandem disc; Owatonna 1000 Mustang skid str loader; McCurdy 165 bu. gravity wagon; 2 JD running gears; 2 row front mt cult. for Ferg. trac.; JD side mt 7' mower; 1969 White 3000 cab over truck w/14' metal dump-body 25,000 GVW; PTO lagoon pump approx. 25' long; 5000 & 6000 gal. fertilizer tanks; MC 250 E continuous flow dryer w/7 HP - SP motor; Brock 1200 bu holding bin w/25' unloading auger & 3 HP motor; Cardinal 45'-8" auger; Approx. 70'-6" auger; Snowco 24'-6" auger; grain moisture tester; 2 hy speed fans; Smoker 30' bale elevator; hyd unloading auger; 3 HP liquid fert. transfer pump; centrifugal contractors pump w/gas eng.; grain cleaner for fines removal; Meyers hay crusher; single axle 2 horse trailer; camping trailer sleeps 4; plus other articles too numerous to mention.

AUCT. NOTE: A good chance to purchase nice grain handling equipment.

Terms: Cash or check, day of sale.  
Refreshments served.

Ordered by  
**WILLIAM H. HINTON**

**RALPH W. ZETTEMAYER**  
AUCTION CO.  
R.D. 1 Breinigsville, PA  
Tele: (215) 285-4616



## PRIVATE SALE 50 HEAD HIGH GRADE HOLSTEIN COWS



We have picked 50 head from a herd of 142 cows, our pick. Cows on test with records of over 20,000M with herd average nearly 15,000M. If you need a top herd and can handle this herd call now.

Must move by March 1, 1979. (Maryland Cows)

**SHADY LANE DAIRY SALES**

Glenn Fite  
717-786-2750

David L. Fite  
717-786-1725

## PUBLIC SALE

**OF REAL ESTATE ANTIQUES,  
HOUSEHOLD GOODS,  
#646 CASE TRACTOR, B-207 ALLIS  
CHALMERS RIDING MOWER,  
TRUCKS, GUNS & TOOLS  
SATURDAY, MARCH 3**

At 10:00 A.M.

Located at R.D. #4 Quarryville, Oak Bottom Road, East Drumore Twp., Lanc. Co., Pa. (from Quarryville take Rt. 372 about ¼ mile West to Oak Bottom Road; turn left to sale).

Real Estate: 2½ story, 9 room & 2 full baths frame house w/white asbestos siding (suitable for two unit apart.) Sep. Buildings: old stone summer house & 30' by 60' 1 story cement block building. Lot Size: 164' frontage by 170' depth more or less. Property open for inspection: Sat's. Feb. 17 & 24 from 1 till 3. Real Estate to be sold at 2:00.

Antiques & Household Goods: Furniture in: uph., chestnut, iron, oak, mahg., walnut, maple, & others. Mantle clocks & parts, baskets, crocks, jugs. Brass, tin & iron articles, oil lamps, hanging lights & shades.

Glassware & china: carnival, ironstone, pressed, Japan, cranberry, & others. Household articles not listed.

Trucks: #646 Case 16 HP tractor w/front end loader, plow & scraper. Allis Chalmers B-207 riding mower & other mowers & equip. Hand & garden tools & other misc. hardware & supplies.

Guns: GR Crown Tower flint lock rifle, cap & ball rifle, 1794 J. Stevens 22 rifle, old cellar door shotgun, 1896 12 ga. shotgun, W. Richards 12 ga. dble. barrel shotgun, Infied 30-06 rifle, C02-22 pellet gun, C02 pellet pistol. Guns & trucks to be sold at 2:30.

Not Responsible for Accidents Day of Sale.  
NO OUT OF STATE CHECKS ACCEPTED.

Food Served.

Sale by

**MR. & MRS. WILLIAM W. KILBY**

Emmett R. Lehman Atty.

Howard Shaub Auctioneer 464-3541  
and Roy C. Probst 464-3190

## PUBLIC SALE

**OF LIVESTOCK AND FARM EQUIPMENT  
FRIDAY, MARCH 2, 1979**

Located six miles south of Quarryville, one mile east of Kirkwood, along the Maple Shade Road. Lancaster County, Penna.

**LIVESTOCK**

**43 HEAD OF HOLSTEIN DAIRY CATTLE**

28 HOLSTEIN DAIRY COWS in all stages of lactation.

14 HOLSTEIN HEIFERS, some bred for fall.

REGISTERED ASTRONAUT STOCK BULL.

Most all young home raised animals.

Many Arlinda Chief off-springs.

ONE PAIR BLACK HORSES 9 years old.

ONE PAIR BELGIUM HORSES 3 and 4 years old.

ONE PAIR BELGIUM HORSES smooth mouth.

ONE SORREL MULE 7 years old.

**FARM EQUIPMENT**

Massey-Ferguson #124 baler; New Holland hay crusher with engine; New Holland manure spreader; McD ground driven corn binder; International straight 5-bar side rake; Papec ensilage cutter.

John Deere disc harrow; John Deere spring harrow;

John Deere #999 corn planter; Oliver 14" trailer plow.

McD #9 7' grass mower; three McD riding cultivators;

mechanical transplanter; cultipacker; land roller; spike harrow. New wagon & bed.

Grove and Easy-Trail flat bed wagons; four fore trucks; spring wagon; sleigh; bob sled; breaking cart.

Two bunk feeders; potato grader; feed and ensilage carts; wheelbarrow; platform scales; old milk cans;

eight sets of front gears; 1, 2, 3, 4, 5, 6 horse hitches, new and used; log chains; forks; shovels. New single & double trees.

Automatic cutter-knife sharpener; 26" heavy planer;

Forge; Ash lumber; tobacco shears and spears.

**DAIRY EQUIPMENT** - Three DeLaval milker units;

Conde milker pump; Bamford 10 h.p. diesel; three H.P. compressor; Martin 18 can cooler in good condition;

thirty milk cans; stainless steel tubs and strainers; hot water heater.

**HOUSEHOLD GOODS** - Two computer scales;

crocks and jars; bee hives and supplies; butchering tools; grinder; stuffer; tacklings; scrapers; etc.

SALE AT 9:30 A.M.

**JOHN K. STOLTZFUS**  
OWNER

Alan  
Abe Jr.  
Abe Diffenbach, Auctioneers