

Research doesn't justify link between fertility and hybrid

DES MOINES, IOWA — Corn growers should not assume that a definable connection exists between soil fertility and the yield response of different hybrids. Even if there were data establishing a correlation between nutrient level and specific hybrids' performance, scientists say the wide range of environmental variables makes application of the concept impractical at this time.

"Make sure nutrient levels are adequate, especially nitrogen. But don't fertilize for the hybrid; fertilize for the yield you expect to achieve," advises Nicholas M. Frey, plant physiologist in the Department of Corn Breeding at Pioneer Hi-Bred International, Inc.

Frey says attempts to choose hybrids for specific soil fertility levels have drawn some attention recently. In those systems, hybrid selections are based on an assumption that hybrids respond

differently to various nutrient combinations.

The concept may be valid, but putting it into practice is another story. Frey cautions growers to examine all research data carefully before acting on recommendations matching hybrids to specific levels of soil fertility.

"The corn plant's response to fertility is an extremely complex research question," Frey explains. "Adding hybrid differences further complicates the issue."

"Also, fertility interacts closely with other environmental factors," he adds. "A plant's nutrient uptake depends on availability of moisture, temperature, sunlight, soil type and tillage...even weed control."

"All these elements are related. I don't think there is any way to accurately select corn hybrids for their response to fertility alone."

PUBLIC SALE MODERN FARM EQUIPMENT SATURDAY, MARCH 20, 1982 10:00 A.M.

Located: Along Eby Chiques Rd. Lancaster Co. Pa. From Rt. 283 take Salunga Exit to Prospect Rd., to Eby Chiques Rd. (Look for signs)

560 FARMALL, Gas, Narrow F/E, with Torque; FARMALL M SUPER M-TA w/Torque, Loader, Bucket & Blade; Cultivators & Tractor Rims for Farmall C 110 Hesston Haybine, N.H. 275 Baler; Int. Mower, McD Crimper, N.H. 256 Hay Rake, Two Flat Wagons, 18 Ft. (J.D. & N.H.); 32 ft. N.H. Elevator, corn drag, INT. 56 Corn Planter, N.H. corn Sheller, N.I. Spreader, IH 3B. 14" Plow (pull type), IH 3 B. 2-pt. Plow, 108 Wierd Plow, J.D. KBA 28 Disc, 28 M.M. Transport disc Cultipacker, 3-sec. harrow, spike harrow, roller, Ontario 14 disc grain drill, Oliver Fert. spreader, Lume spreader, McD Hammermill & belt, Lalliston Rotary mower (pull type), Bohlens 5 hp. Rototiller, 8' Pickup bed, several carts, wagon bed, disc Parts, Motor bike 80 cc., wh. barrow, 2 presses, Lawn boy & Eclipse mowers, car chains, 2-Unit Surge milkers & twin cylinder Surge pump, hot water heater, buckets, tencers, dehorner, hoof trimmer, forks, halters, 2&3-prong forks, snow fence, gates, rails & fence posts, wire tam, saw buck, ex. ladder, bag & feed carts, grass seeder, grease guns, baler twine, oil drums, wooden pulleys & rope, English saddle, rabbit pens, traps, Misc. chick equip., crates, shovels, tires, iron trough Queen Bengal coal range, Old cement chimney, oil stove, scalding trough bed, wardrobe, Salamander, oil tank, License Plates, and numerous useful items not listed.

AUCTIONEERS NOTE: Above Equipment in excellent condition. Lunch available. NO out of State Checks unless known by Auction Firm.

Sale by

MINNIE V. GANTZ

C.H. WOLGEMUTH & H. SHAFFNER
AUCTS.
Ph. 665-5664

PUBLIC SALE

Of Farm Machinery and
Household Goods

Having rented my farm and quitting
farming will sell on:

SATURDAY, MARCH 13

Sale at 9:30 A.M.

Located 3 miles south of Mercersburg,
Franklin Co., Pa. along Route 75.

I.H.C. 656 diesel tractor with cab, little over 3000 hrs.; I.H. 444 wide front tractor, only 1600 hrs.; 475 Kelly front end loader for same; I.H.C. Farmall super M tractor, live hydraulic and power steering; M.H. No. 26 self propelled 10 ft. combine; I.H. 1550 PTO grinder mixer; I.H. 400 Cyclo 4 row no till corn planter, planted less than 200 acres; I.H. 510-13-7 grain drill; I.H. 990 pull type mower conditioner; J.D. 3800 forage harvester with 2 row corn head and grass pick up head; J.D. 16A flail chopper; I.H. 430 PTO baler with thrower; King Wise 30 ft. elevator; N.I. wheel rake; N.I. 328 one row corn picker; N.I. 213 PTO wide spread manure spreader; 2 Grove 8 ton 16 ft. PTO forage wagons, front and rear unloading; Grove wagon 16 ft. flat with bale rack; Grove 7 ton wagon with steel gravity bin; Gehl PTO hopper silo blower; 40 ft. 9 in. silo pipe and goose neck; other 9 in. pipe; 200 gal. fiberglass tank trailer field sprayer; 16 ft. small grain elevator; I.H. 450 three 16 in. bottom automatic reset plow; I.H. 19 B double disc; M.H. orchard disc; J.D. 10 ft. cultmulcher; J.D. 12 ft. lever harrow; 350 gal. stainless steel tank; good milk tank compressor; milk tank washer; DeLaval milk pails; 10 milk cans; Jamesway feed cart; Forney 180 amp welder; McCullough chain saw; garden tiller; David Bradley garden tractor, barshare, cultivators, disc, and spike harrow for same; 250 bales of first cutting alfalfa; 200 bales mixed hay; 350 bales of straw; lot of small farm tools and some household goods. Order of sale: tools, household goods, farm machinery.

MR. & MRS. ROBERT HARTMAN
Edgar J. Stull and Loren Lichty, Auctioneers

PUBLIC SALE

OF 17.63 ACRE FARM, ANTIQUES,
HOUSEHOLD GOODS & FARM EQUIP.

Warwick Township

SATURDAY, MARCH 20

SALE 9:30 A.M.

REAL ESTATE 2 P.M.

Located at 708 Lincoln Rd. (1/2 mile East of Brunnerville towards Lincoln) Warwick Township, Pa.

17.36 ACRES 2 1/2

STORY VINYL SIDED DWELLING

Second floor contains 5 bedrooms. First floor contains eat-in kitchen with built-in cabinets, dining room, living room with bow window & built-in corner cupboard, large family room, bedroom, office and tull bath.

Daylight basement contains several rooms plus a laundry.

Oil-fired hot air heat (new furnace). Home well insulated. Roof (2 years old).

In ground cement pool (17x37) with all equipment. Pool area fenced in.

POLE BARN Frame & aluminum 30'x100'

2 STORY FRAME BANK BARN

Cement Block & Open Storage Building 130x25' (with loading dock).

Spring, well & pressure system.

11 tillable acres, remaining is pasture & wooded area. Pasture fenced. Stream.

Property zoned agriculture.

This property is ideally located in Lancaster Co. farm area. Many possibilities.

17.63 ACRES. 373 feet (more or less) road frontage.

Open Houses Real Estate Only — Saturdays, March 6 and March 13 from 1 p.m. to 4 p.m. or for inspection or information call 626-6011.

Property recently surveyed. Draft & description available.

TERMS — 10% down and settlement on or before 60 days.

TERMS BY:

**N. EUGENE AND
ANNA MARY KOFROTH**

T. Glenn Horst, Auct.
859-1331

BARRY & NANCY RUSWEILER

Complete Dispersal

FRIDAY, MARCH 12

11:00 A.M.

Deruyter, New York. Sale to be held on the farm on High Ridge Rd., Deruyter, NY. turn off Rt. 13, 1 mile south of Deruyter to High Ridge and 16 miles north of Cortland use exit 11 off I-81.

**71 HIGH GRADE HOLSTEINS
42 COWS-MANY FRESH AND
SPRINGERS**

**MANY DUE FOR FALL
27 HEIFERS FROM STARTED
CALVES TO BRED HEIFERS, 2 BULLS**

Young good uddered dairy with several outstanding individuals. Herd was on test December 1981 with projected records to 21,000 milk.

Herd will be examined for pregnancy, shot for shipping fever and tested for immediate interstate shipment.

MACHINERY

Int. 1206 diesel tractor w/cab, sharp; Oliver 1650 gas w/wide front and Oliver 1810 front end loader; Farmall M; NH 479 haybine; Fahr 4 umbrella tedder; NH 55 rake; NH 310 baler w/thrower; 2 yrs. old; 3 basket wagon, 2 w/gears; Little Giant 36" elevator; Int. 401 drag; Int. PR 1 corn picker; Killbros. gravity box on gear; N.I. self unloading wagons; Int. chopper w/picker; Gehl flail chopper; JD left hand barrel spreader; 2 wheel cart; lumber 2x12, 2x4, 2x6; New feed cart; barn items; cement mixer; small quantity miscellaneous items.

Note: Good dispersal to attend, not many small items, sale will start promptly on machinery so be on time.

Terms: Cash or good check w/positive ID. Lunch available.

BARRY & NANCY RUSWEILER

Owners Deruyter, NY

Sale Co-Managers:
Mel Manasse, Whitney Point,
607-692-4540
William Kent, Inc.
Bergen, NY 716-494-1890

**Robert and Bonnie Brown
Complete Dairy Herd &
Farm Machinery Dispersal**

Eaton Township, Wyoming Co., Pa.

Having decided to discontinue our farming operation, we will sell the following at the farm, located on Rt. 292, 2 miles southeast of Rt. 309 at Evans Falls, 8 miles south of Tunkhannock, Pa., 10 miles north of Dallas, 3 miles west of the Village of Vernon. Watch for blue and white auction arrows.

SATURDAY, MARCH 13

9:30 A.M.

72 Hi-Grade Holsteins, of which 45 are milking age with two fresh in January, four due in February, 10 bred for March, 6 for April, 3 for May, 2 for June and the balance in all stages. This dairy is young with a majority second and third calf heifers. With good sound type and good udders and show a lot of milk with a current B.F. of 4%. Twelve heifers breeding age, seven yearlings, seven started calves and one yearling herd sire. 30 day T.B. and blood tests, interstate chart, issued day of sale.

A complete line of modern, up to date machinery including five tractors, Farmall 986 diesel, wide front, 1400 hours with AC cab, loaded and like new, 1256 turbo diesel, wide front, with cab, low hours and loaded 400 diesel with L.P.T.O. and T.A. amplifier. Farmall M wide front, recently overhauled. Farmall H, just overhauled.

All the above have new or real good rubber, new batteries and are ready for heavy spring work.

I.H. 6 btm. 18 inch semi-mount automatic reset plows, nearly new. Int. 350 Tandem disc, I.H. #56 4-row corn planter, new 1980. I.H. 720 chopper, with two row corn and pick up heads, (A-1). Gehl 640, s/u wagon w/roof on 12 ton gear. Gehl 640, on 10 ton gear. Both nearly new. N.I. 45 foot hay and grain elevator, (A-1).

N.I. 323 1 row picker, (A-1). I.H. 56 hopper blower, N.H. 282 baler with thrower and cylinder, (A-1). 3 oak bale bodies, one 16 foot with running gear, one 21 foot with running gear and one 16 foot without gear. All (A-1). I.H. roll bar rake, 2000 gal. fuel tank, fahrtedder (A-1). 1970 G.M.C. long-wheel based truck with high rack and dump body, 30,000 g.v.w. 1972 G.M.C. 3/4-ton, 4-wheel drive pickup, both good condition. Approx. 15 ton of ear corn, 1500 ables of alfalfa, clover, mixed hay. 600 bales of heifer hay and many items.

Selling at 2 p.m. modern up to date dairy farm of 131 acres, more or less, 80 acres tillable, balance good timber and pasture land. One-half mile macadam road frontage on route 292. Twp. road to farm. 58 tie-stall barn, partial new construction. 16x70 Ribstone Silo with unloader, barn cleaner and fans. Modern milk house with 400 gal. tank. Mow storage for 12,000 bales of hay, 1,200 bushel corn crib. Garage, 7 room and house, with both oil and wood heat, and drilled well. Excellent hunting and fishing, with large creek running through property, with possible recreation or campsite potential. Terms: Cash, FHA or good check with ID.

Owners

ROBERT AND BONNIE BROWN

RD 5 Tunkhannock, Pa.

Wayne E. Weaver, Auctioneer-Sales Mgr.
RD 2 Tunkhannock, Pa. 18657
717-333-4194

Public Sales

Register

MARCH

SAT. MARCH 6 - Public Sale of Cattle and Farm Machinery. Located in Elizabethville, Dauphin Co., PA. Isaac K. and Vera M. Newslinger, Owners. Kling's Auction Service.

SAT. MAR. 6 - Inventory Reduction Auction of Farm Tractors and Machinery at Pleasant View Farms, Montour Falls, NY. Sale managed by Goodrich Auction Service.

SAT. MAR. 6 - Public Sale of Line Equipment and Trucks. Located in Astoria, NY. Con-Edison Co. of NY, Owner. Vilsmeier Auction Co., Inc.

SAT. MAR. 6 - 9 A.M. Public Sale of Livestock, Machinery and Furniture. Located in Centre County, 1 mi. west of Centre Hall, PA (Old Fort) or 6 mi. east of Boalsburg, PA on Rt. 45 turn south on Township Rd., first farm. Mrs. Harold Williams, Owner. Mark Glick, Auctioneer.

SAT. MAR. 6 - 9:30 A.M. Public Sale of Real Estate, Farm Equipment and Household Goods. Located in Marion Twp. Berks Co., PA along Rt. 419, 2 mi. north of Womelsdorf. E. Mae Henderson Estate. Earl S. Buffenmeyer, Auctioneer.

SAT. MAR. 6 - 9 A.M. Public Sale of Antique Furniture, Glassware and Etc. located at the McSherrystown Fire Co., Social Hall, 238 Main St. Cynthia Ann Martin, Owners. Clair R. Slaybaugh, Auctioneer.

SAT. MAR. 6 - 9 A.M. Public Sale of Tack and Horses. Located at the Jersey Shore Livestock Barn, 2 mi. east of Jersey Shore on Rt. 44. Jersey Shore Livestock, 717-398-0111

SAT. MAR. 6 - 10:30 A.M. Public Sale of Farm Implements and Antiques. Located on the premises at Stouchsburg in Berks Co., PA, about 4 mi. east on Rt. 422 from Myerstown to Stouchsburg. John A. Zimmerman, Owner. Arthur Copenhaver and Arlin Weik, Auctioneers.

SAT. MARCH 6 - 9:30 A.M., First Annual Spring Auction, large variety of new & used farm, home & garden equipment. E.M. Hierr Inc., Rt. 272 S of Willow St., Pa Howard Shaub, Auctioneers.