D24—Lancaster Farming, Saturday, September 13, 1980

# Liming requires a proper soil test

NEWARK, Dela. - This has been a frustrating and disappointing year for many Delmarva farmers. High costs for fertilizers, seed, and other production inputs have been followed by severely reduced yields due to drought. It will make planning for next year all the more difficult and critical.

Probably the single most important practice to insure areas in a field where growth efficient fertilizer use, good weed control and generally satisfactory crop growth is field - take a separate liming, says University of Delaware extension soil specialist Leo Cotnoir. Fall is the ideal time to lime since lime takes several months and adequate rainfall to react. Winter rains will be very helpful in promoting this reaction.

Before ordering lime, though, it's essential to find out whether or not you need it. Soil pH values unfortunately tend to vary with the seasons, especially in very sandy soils The lowest values usually occur in late summer and early fall. They're critical to get good samples that are representatives of soil conditions over the entire field, stresses the specialist.

Before even starting to ferences in cultural practake samples, look the field over carefully. Right after harvest you should have a pretty good idea of how well different parts of it produced.

In general, sampling areas shouldn't exceed 100 acres in fields where previous history indicates that crop growth has been fairly good and uniform. If you've observed is different – either better or worse than the rest of the sample. Areas that have been treated differently, including differences in manure or fertilizer treatments, plowing and disking, etc., should also be sampled separately. An area that has been plowed just an inch deeper than another area is likely to have a different pH due to the small amount of acid subsoil worked in with the surface soil.

In other words, says Cotnoir, the better you know your fields and use past cropping history as a guide, the better samples will reflect soil conditions. This is especially so on sandy soils where lack of buffer capacity can result in relatively large pH changes from relatively minor dif-

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tices.

Once areas to be sampled have been carefully outlined, you're ready to take samples. No sample should consist of less than 20 cores. A good rule of thumb is a minimum of 20 cores with an added core for every two acres over 25 acres. Thus, a 50-acre field would require 35 cores.

This may sould like a lot of work, and it is. It will mean having a good sampling tube and a lightweight, easily carried, clean bucket. Cores can be taken rapidly while walking over the field. There's no substitute for doing the job on foot.

Depth of sampling is very important. In general, take samples to the depth of plowing. Soil below the plow layer is usually more acid. A small amount of this subsoil mixed with the plow layer will lower pH values. If the soil is too dry to easily push the sampling tube into the ground to pow depth, it may be better to wait for better moisture conditions.

No-till crops present a different problem. The surface one or two inches of a no-till corn field will generally be more more acid due to surface applications of fertilizers and decomposition of the surface mulch. This acid surface

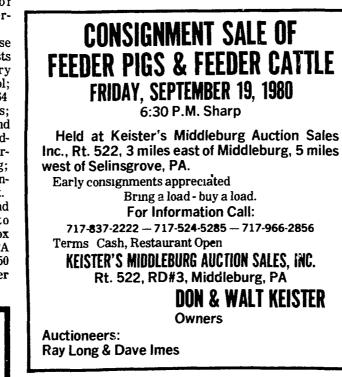
# **REAL ESTATE AUCTION SATURDAY, SEPTEMBER 20**

#### at 1:00 P.M. sharp.

Location: approx. 2 miles east of Collomsville, Pa. on Rt. 44.

Good hunting; 90 acres of beautiful mountain ground adjoining state grounds on rear of property. Will be sold at Linden, Pa. on Rt. 220. Estate reserves the right to reject any or all bids. For further information contact the auctioneers.

Bob, Chuck & Rich Roan, Inc. **Licensed & Bonded Auctioneers** Box 118 R.D. #3 Cogan Station, Pa. 17728 Phone 717-494-0170 or 717-998-8281 after 5 P.M. Chuck



layer will have little influence on the growth of the crop, but will have very serious impact on the effectiveness of herbicides especially atrazines. On notill corn fields, take a sample fertility assessment and a mendations can be made.

second sample from the top two inches to detact surface acidity which will influence herbicide behavior. Be sure to label these samples properly before sending them to the laboratory so to 6-8 inches for general that proper lime recom-



1 mile West of Gratz, Upper Dauphin County, Pa.; 40 miles North of Harrisburg (watch for auction sign along Rt. 25 midway between Gratz and Cross Road Sales & Market)

#### **33 ACRE LYKENS VALLEY FARM**

6-Room Dwelling with Heat & Bath; Bank Barn; (2) Block Sheds; Approximately 30 acres under cultivation, balance wooded with some nice oak timber.

TERMS: 10% down the day of sale, further terms & conditions to be announced when real estate is offered at 1:00 P M.

FOR INSPECTION CALL: (717) 425-3313

PERSONAL PROPERTY including Household Furnishings, Carpenter & Garden Tools, Springfield 7<sup>1</sup>4 h p Riding Mower

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TRI-STATE LIVESTOCK	MARKET	
on all of the Virginia Association	on Sales.	
in the special sale Contact your	r Extension Ägent	
7 30 p m Bring only the type of	livestock being sold	
order to have them graded and I	isted for the sale at	
later than 5 00 p m This is extr		
Tel-O-Auction Hookup Available ) All livestock must be on the M	brivet Crounds not	
(All Virginia Association Sales are co	onsignment sales with	1
Wednesday night at 7:30 p m )		
Tuesday Oct 28 until noon Wed		
(Cows and Heifers for this Sale will i		
Beef Breed Cow and Heifer Sale	OCT 27 7 30 pm OCT 29 7 30 pm	
Va Assoc Yearling Steer Sale Va Assoc All Breed Calf Sale	OCT 20 7 30 pm	
Sale	OCT 13 7 30 p m	
Va Assoc Angus and Crossbred Calf	f	
An Assoc Fearing Steel Sale	OCT 6 730 pm	
Open Yearling Steer Sale Va Assoc Yearling Steer Sale	SEPT 29 7 30 p m	
Sale	SEPT 22 7 30 pm	
Va Assoc Hereford and Angus Calf	·	
Holstein Steer Sale	SEPT 15 7 30 p m	



**SATURDAY. OCTOBER 18** 9:30 A.M.

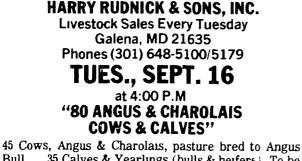
**PUBLIC SALE** 

# **190 Acre Farm**

Located 3 miles Southwest of Mercersburg, PA on Blue Springs Rd.

Owner. **ROBERT LINE, JR.** 717-243-1281

**Edgar Stull, Auctioneer** 717-597-2787



Bull . 35 Calves & Yearlings (bulls & heifers) To be sold in small sorted weighed groupings

#### Consigned by DAN QUINN, JR.

Sale starts promptly at 4:00 p m (in addition to our regular sale) at GALENA, MD

# **PUBLIC SALE** OF **REAL ESTATE (2 Houses & 5 Mobile Homes** with 7.827 acres of Land) **MON. EVE., SEPT. 29** at 7:00

Located along Hopkins Mill Road, Providence Twp., Lanc. Co., Pa. (Take Rt. 272 about 7 mi. south of Lancaster. Turn left on to Rawlinsville Ave. Go <sup>1</sup>/<sub>2</sub> mi. turn right on to Hopkins Mill Rd.)

Real Estate. 21/2 story frame house w/white asbestos siding, 5 rooms & full bath Attached 11/2 story frame house w/white asbestos siding, 3 rooms & full bath. 5 very nice mobile homes Sm frame barn, nice lawn w/trees & shrubbery 51/2 acres of good farm ground 514' of road frontage along Hopkins Mill Rd Property open for inspection Sat's, Sept 13, 20 & 27 from 1 till 2

# Sale by **ROBERT & MARY BOYD**

Robert A. Longo Atty. Howard Shaub Auctioneer 464-3541 and Roy C Probst 464-3190

57 Hi Grade Home Raised Holstein Dairy Cattle, 30 Milk Cans, Some Dairy Supplies, Etc. **Owner discontinuing Dairy Business on Farm** 15 Miles N. of Danville, Pa. 15 Miles N.W. of Bloomsburg, 1<sup>1</sup>/<sub>2</sub> miles W. of White Hall along Exchange - White Hall Rt. 44 Highway (Montour Co.).

# TUESDAY, SEPTEMBER 23, 1980 12:30 P.M.

Herd consists of 33 Milking age animals including 19 1st and 2nd Calf Heifers 7 Bred heifers from Elevation Son, 17 heifers from calfhood to breeding age from Oak Hill Ranch Don Jose Son from Lucky Dam with records to 20,359M, 785F DHIA rolling herd average (owner sampler) 6-80 16,624M, 3 7% 620F, Herd never under 15,000 lbs Milk since on Test Herd average 50 lbs Milk for the last 14 months Sample records of animals selling Lucy (Ivanhoe Star Grandaughter) up to 118 lbs a day 4 yr old 325 da 23,210M 833F 5 yr old Proj 22861M 755F Princess milked 92 lbs 344 Da 22954M 908F Martha just fresh 91 lbs for Aug Test. Kendy 2 vr old 342 Da 17,512M 693F Cattle have not been pushed for Maximum production 9 Cows fresh in August, 3 due by Sale time, Balance various stages Cattle have good dairy quantity & good udders 60% Calfhood Vacc 30 day TB & Bangs tested, Preg Checked, Catalogs, Sale under Tent

**Owners** 

**BENUEL S. & ANNIE STOLTZFUS** 

Auct. Max Fraley & Son, 546-6631