



The world's largest bowling alley is located in Tokyo. It has 252 lanes.

Guernsey milk produces two pounds more cheese per 100 pounds of milk than any other breed's milk.

Straw can be suitable feed

UNIVERSITY PARK, Pa. - Straw treated with sodium hydroxide and supplemented with urea nitrogen can be used successfully in feeding cattle and sheep, experiments at Penn State University have found.

The findings were reported during Livestock Day held earlier this year. Treating straw with an alkali such as sodium hydroxide breaks the chemical bond between cellulose and lignin, making the cellulose digestible, according to Hong Suk Park, graduate assistant in animal science.

Fed a ration of 50 per cent treated straw and urea supplement, lambs showed considerably more weight gains per day than lambs fed any other ration containing straw. Weight gains of these animals, averaging one-half pound per day, were exceeded only by lambs fed a standard ration of grain mixture and alfalfa hay. When the animals were fed a ration containing 75 per cent treated straw, they still gained one-third of a pound per day.

Laboratory analysis showed that 86 per cent of the cellulose in alkali-treated straw was digestible—compared with only 41 per cent of the cellulose in untreated straw. Protein synthesis from non-protein nitrogen in the animal's rumen or first stomach was also increased by the alkali treatment.

Park said large worldwide quantities of straw, could be important in nutrition of cud-

chewing animals if digestibility and palatability can be improved as shown at Penn State. A native of Korea, Park hopes to apply his findings to animal feeding projects in his home country.

He indicated alkali-treated straw is used in most European countries. In Denmark and England, the treated straw is stored in silos or is made into cubes or briquettes.

The experiments used 35 wether lambs for 42 days in the mid Summer of 1976. The lambs were divided into groups of seven by weight. Two groups were fed either treated or untreated straw as 50 per cent of the ration. Another two groups were fed either treated or untreated straw as 75 per cent of the ration.

Producing alkali-treated straw for animal feed is a growing business in countries such as Denmark, England, Australia, and parts of Africa, it was stated. Some companies process the treated straw into cubes or briquettes at the rate of four tons per hour.

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Liming acid soils will increase the yields of grasses and legumes and improve their quality. Many of the failures associated with these crops may be caused by the lack of lime.

PUBLIC SALE

OF 275 HEAD OF LIVESTOCK

Located 5 miles north of Chambersburg, Pa., and 5 miles south of Shippensburg, Pa., on Route 11.

FRIDAY EVENING, APRIL 22, 1977

At 6:30 P.M.

HOLSTEIN HEIFERS

Consisting of 60 bred heifers of which most are close springers, balance from sale to summer; 205 open Holstein heifers ranging from 3 mos. of age to breeding age. 6 Red & White Holstein heifers and few mixed beef type heifers.

This is a fine group of young cattle out of good breeding, all dehorned and wormed. Bangs and T.B. tested within 30 days of sale with individual health charts.

Terms: Cash - Not responsible for accidents.

Auctioneer: Robert C. Mullendore

Clerk: C. L. Metz

JOHN C. DEIHL

Cattle to be sold in tent - Lunch Available.

Farm Equipment

Farm Equipment

FREY BROS. MFG.

QUARRYVILLE, PA PHONE (717) 786-2146

- Farm Gates
- Head Gates
- Calf Creep
- Steel Fence
- Free Stalls
- Loading Chutes (Slop Stops)
- Steel Buildings
- Automatic Wagon Hitch
- Ritchie Waterers
- Electric Gates
- AI Chutes
- Ear Tags
- Feed Bunks
- Hay Racks

WRITE FOR FREE CATALOGS

PUBLIC AUCTION

FARM TRACTORS AND MACHINERY,
TRUCKS, INDUSTRIAL EQUIPMENT
HARDWARE AND SUPPLIES

The undersigned will sell the following on the premises known as GRIMMEL BROS. - 3725 FEDERAL HILL ROAD (Md. Rte. No. 165) North of JARRETTSVILLE in the Northwestern part of Harford County, Maryland.

ON FRIDAY, APRIL 29, 1977

At 10:30 A.M. (est)

FARM MACHINERY: 8N Ford Tractor, JD tractor model 'B', Case VC tractor, 5 hp. riding mower, JD 3 x 14" plow, 3 pt. hitch, JD 17 disc grain drill, IHC snow blower for Cub Cadet, new post hole digger, 3 pt. hitch; 16 ft. wheel barrow seeder, 2 standart barn cleaner units, 5 ft. rotary mower, 2 New Cyclone seeders, 7 ft. Myers snow blade; 10 ft. snow plow. Molasses lick tank (2 wheels).

TRUCKS: '73 C-60 Chev. dump, '73 Chev. pickup, '71 Int. 1910, '69 Ford F8 dump truck, '62 Diamond T single axle tractor, '54 2 ton dump, 5th wheel. Step. Bumper for GMC pickup, '72 Chev. Vega auto (35,000 miles.)

INDUSTRIAL EQUIPMENT: Case CK No. 530 backhoe and loader, Ford No. 4000 backhoe and loader, 12 ton and 30 ton hydraulic jacks, 1 ton chain fall, 8 ft. x 33 ft. mobile office trailer, misc. tires and rims. 800 lb. counter weight, '60 Michigan 175A loader w/23/4 yd. bucket.

HARDWARE AND SUPPLIES: Smith Corona adding machine, w/cash drawer, elec. motors, 8 ft. Lolly Columns, 20 ft. R.R. Rail, ping pong and formica top tables; 2" cherry lumber, plastic pipe, assorted pipe fittings, NCR cash register, 16 metal storage racks, 1 small and 2 large safes, barb wire, cattle wire, 4 bu. seed corn, alum. 3" pipe, 2 wood desks, 2 rolls of new cable, large quantity of bolts and nuts, large quantity of 6d to 10d nails. Locust posts, 2 ft. shower doors, work gloves and misc. tools.

Terms: Cash or approved check.

Owner,
GRIMMEL BROS.

Jarrettsville, Md.
21084
301-557-7400

John H. O'Neill, Auctioneer
Forest Hill, Md. 21050
301-838-6980

Lunch served by the
Ladies of the Jarrettsville VFW.

PUBLIC AUCTION

SATURDAY, APRIL 23, 1977

At 11 Sharp

Located off Rt. 44 at Shinglehouse on Sunnyside Rd. One mile from Oswayo Valley School. 20 miles from Wellsville, N.Y. and 16 miles from Olean, N.Y.

50 HIGH GRADE HOLSTEINS

Herd consists of 25 mature cows, 5 heifers of breeding age. 9 choice yearling heifers. 11 started calves ranging from 1-8 months. DHIA records available. Individual cows producing up to 17,000 m. Herd test 3.8. Many just fresh and several bred for fall. Interstate tested pregnancy examined.

MACHINERY

Case 970 Agri-King dsl. tractor excellent condition. 1300 hrs. Oliver Super 77 tractor wide front-AC WD 45 tractor with high lift and bucket. AC 4 btm. plows. AC 12 ft. transport disc. 1976 Jeep J-20 pickup truck ¾ ton-4 speed. 2 Lamco SU forage wagons with Badger running gear very good. JD 4 row corn planter. NH tank manure spreader. NH 717 chopper with corn and grass heads. NH 7 foot haybine No. 467. JD rear mount mower. International side rake. AC cultivator NH blower. Butler Bulk-o-matic feed bin-4 ton capacity. 2 hay and grain elevators. 2 two-way hydraulic cylinders. Wagon with rack. Drags. Lime sower and seeder. 3 pt. hitch. AC post hole digger. Cherokee 3 pt. cement mixer, new. Grain auger. 3 Surge milker units, wheel barrow, electric clippers. Numerous other items.

Terms: Cash or good check.

Owners:

MR. AND MRS. JAMES SALADA

Auctioneer, Si Pepperman
Sales Managers, Cliff Mesler and Dave Rumsy
Lunch available.

New Holland Sales Stables, Inc.

4th ANNUAL

SPRING HEIFER SPECIAL

SATURDAY, MAY 21, 1977

At 10 A.M.

New Holland, Pa.

At New Holland Sales Stables, 12 miles east of Lancaster, Pa. on Rt. 23.

1000 Head of Holstein heifers. Holstein heifers of all ages from small calves to big fancy springing and fresh heifers.

250 Registered heifers with good pedigrees from local herds. Many top AI sires represented. Registered heifers sell at 12 Noon.

Many heifers will be identified grades and calfhood vaccinated. Several are bred for summer and fall freshening.

Note to consigners: Our commission rate is 3%.

All heifers must have 30 day health charts and should be eligible for out-of-state buyers.

For more information about buying or consigning to this special sale, contact Abe Diefenbach, phone 717-354-4341 or Norman Kolb - 717-397-5538.

PARKER ALL DAY

FARM DISPERSAL

SATURDAY, APRIL 23, 1977

10:00 A.M.

JASPER, NEW YORK

Sale to be held at the farm 3½ miles north of Jasper on the "five Corners" road. Watch for pointers at 4 corners in Jasper. (Rte. 417).

As the Parkers' have sold their farm and are retiring from farming, all personal farm property must be liquidated! The following is but a partial listing of the many items to be sold!

DAIRY:

47 home raised, interstate ready, Eastern bred holsteins sell. Vet. checked for pregnancy, blood and T.B. tested. 30 sharp, young mature animals, primarily bred for fall! 8 fancy heifers bred for fall and 8 nice open yearlings. 1 holstein steer. Lots of quality and dairy character throughout!

EQUIPMENT:

2 JD gas tractors: (2520 w.f.e., weights, chains, good rubber, comfort cab, etc. and 3010 n.f.e., chains, pulley, good rubber!) Bestland 8 ft. rock picker w/hopper, hardly used!! NH 512 spreader, new last fall! NH 275 dual wheel baler w/ejector and plastic twine knotter; NH 269 haybine; NH 55 side rake; 2 good solid basket wagons on gear; Papec 2 beater s.u. wagon on NH gear w/high floatation tires; IH 401 12 ft. harrow; Papec blower w/40 ft. pipe; New Killbros 350 gravity box on 7 T. gear; New NH No. 155 36 ft. hay and grain elevator w/1½ hp. motor; JD No. 18 1 row picker; AC No. 100 s.p. combine; Meyers 3 pt. 100 gal. sprayer; IH No. 245 2 row corn planter; IH 13 disc drill; land roller; 30 ft. hay and grain elevator w/motor; 3 pt. 8 ft. rear scraper blade; JD No. 10 side mt. mower; JD No. 6 chopper w/1 row corn head; JD F-130 full mt. 3 bottom 16" plow w/coulters; IH flat bed ensilage wagon w/false end gate; 8 ft. cattle rack for Chevy. 20 series pick-up; IH 8 ft. binder on rubber; 6 ft. locust posts; buzz saw; aerator elect. grain dryer; 2 6 in. belts; new alum. 40 ft. ext. ladder; 2 JD hyd. cylinders; 3 Surge 50 lb. milker units; 2 feed carts; forced air coal and wood stove; Homelite XL-700 chain saw; 6 new rolls of 4 pt. barb wire; large qty. of new lumber; good Forney 180 amp. welder; shop tools; much, much more!

PRODUCE:

4300 bales good mixed hay sold in 3 lots; qty. of bedding; qty. of ensilage in silo; app. 400 bu. "ORBIT" oats, 1 yr. from cert.! Large quantity of corn on cob!

Everything in excellent state of repair. The Parkers have farmed here for over 25 years! Plan for a big sale! Your inspection invited. Lunch available. Cattle sale in tent.

Terms: Cash or good check sale day with identification.

Owned by,

MR. AND MRS. LYLE PARKER

607-792-2027

Sale by:

James and Victor Pirrung, Wayland, N.Y.
716-728-2520

Gerald Pirrung, Ulysses, Pa. 814-848-7401.

R.M. Shaylor, Troy, Pa.