

Monday, October 4, 1971

Pasture Management Must for Battle Creek Farmer •

Good pasture management is essential believes Henry Bruek Jr., Battle Creek, Iowa, farmer and an Area Winner in the Sioux City Program for Permanent Agriculture. Bruek staggers grazing, uses fertilizer, seeds supplementary forage crops and has terraced his pastures. He has a 180-head cow herd operation, using Angus and Herefords in crosses both ways. He is shown here visiting with Bob Brink, member of the Sioux City Chamber of Commerce staff. More on Bruek's conservation work in the story on page 2. Photo by Marc Cox, Journal Farm Editor.



IN THE FARM NEWS
this week

Cut Winter Erosion

Follow Practices Now to
Cut Blowing...PAGE 9

New at Stockyards

Australian Auction Used for
Feeder Sales...PAGE 10

Siouxland Farmers Doing Good Job of Soil Management

By MARC COX
Journal Farm Editor
SIOUXLAND'S FARMERS,
on their own initiative, have been doing an A-1 job of ecological and environmental management for many years.

It's old stuff, really; just good operations designed to make money and save soil and water and conserve wildlife and preserve a costly farm business for the upcoming kids.

They are conservation farmers.

The Sioux City Chamber of Commerce and the Sioux

City Journal — interested in a permanent and prosperous agriculture for its four-state trade area, 25 years ago initiated a recognition program: awards and tribute to farm people who were taking the lead in conservation activities.

Over the years some 4,500 farm families in Nebraska, Iowa, South Dakota and Minnesota have been recognized: certificates of merit, plaques, cash awards and award-

winning trips to those who won in playoff judging. Sons and daughters of former award winners are continuing the conservation battle. And the Siouxland countryside is getting a new look — terraces and contoured fields, ponds and flood control structures, rolling hills seeded down with grazing cattle, costly bridges replaced by earthen dams with drop inlets.

Much Accomplished

The total land hasn't been converted yet; not all of the

watersheds have been organized or worked on; there are many reasons why work hasn't been completed or even started.

But — a lot has been accomplished — thanks to progressive, sincere thinking and action by many people: older farmers, middle-aged farmers, young farmers, and agribusiness men with interests in farms. The technical help of the Soil Conservation Service, the push of the farmer-operated Soil and Water Conservation District boards, the educational efforts

of the Extension Services, have all combined to get the job done.

Environmental management takes many forms—as evidenced in the programs of the 1971 Area Winners in the Sioux City Program for Permanent Agriculture — from flat land to rolling hills, from irrigation country in arid regions to blowing, sand country.

They each have a story to tell on their conservation-ecological work. The Journal and Cham-

ber of Commerce ag committee members are visiting these area winners — to learn their problems and how they have solved them.

Thursday, Nov. 4, all area winners along with district winning farm families in 60 four-state counties, will be hosted in Sioux City at a banquet program by the Chamber-Journal.

This week, and in several weeks to come, the Farm

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THESE ARE TERRACED pastures on Henry Brueck's farm at Battle Creek, Iowa — with good fall growth of brome-alfalfa for grazing. Management of the Angus-Hereford cow calf herd (below) includes rotational grazing, use of supplemental forages during the warm season.





Washington Farm Report

exclusively for Siouxland Farmers by Gene Goldenberg

Sioux City Journal's Washington Farm Reporter

WASHINGTON — AN ABRUPT CHANGE OF MIND that had observers here shaking their heads in wonder last spring now turns out to be not so puzzling.

On March 11, Agriculture Secretary Clifford Hardin announced that his "careful review of the situation and the provisions of the law" had convinced him that price supports for manufacturing milk in the 1971 marketing year, which would begin on April 1, would remain the same as for 1970 — \$4.66 per hundred pounds.

Hardin said he was sorry he could not raise the supports, but to do so would encourage over production and would result in surpluses that the dairy industry could not afford.

The Secretary's decision made the dairy lobbyists very unhappy. In fact, a group of disgruntled dairymen visited with President Nixon on March 23 to express their displeasure.

On March 25, Hardin announced that he had changed his mind and raised the government support level by 27 cents a hundredweight. He claimed that "continuing research" had shown the need for this increase.

Now it appears that the secretary's change of mind has not only benefitted the nation's dairymen, but has also brought more than \$250,000 to Republican campaign coffers with a promise of much, much more in contributions from grateful dairy organizations.

WELL-DOCUMENTED ARTICLES in The Washington Post and the Wall Street Journal and records on file with the Clerk of the House reveal that following Hardin's decision to raise dairy supports, more than a dozen dummy "voluntary associations" were set up in the District of Columbia to collect the contributions of these dairy organizations.

The District has convenient laws governing the registration or organization of such political committees.

The contributors were led by the Trust for Agricultural Political Education (TAPE), which is an arm of the Associated Milk Producers Inc., a 44,000-member dairy coop. TAPE has so far contributed \$125,000 to GOP political committees. Of this, \$10,000 was donated to regularly operated Republican committees the day before dairymen met with Nixon in March. The remainder has been contributed in small doses to the special front committees established since the price hike was announced.

Another grateful organization has been the trust for the Special Political Agricultural Community Education (SPACE), the political fund of a Louisville-based dairy coop, which gave \$25,000 to regular Republican groups the day after the White House meeting. In all, SPACE has contributed \$60,000, again mostly to the D.C. committees set up since March 25.

THE THIRD MAJOR BENEFACITOR is the Agricultural and Dairy Education Political Trust (ADEPT), a fund connected with Mid-America Dairymen Inc., of Springfield, Mo. ADEPT donated \$45,000 in \$5,000 portions to nine GOP committees on April 5, not two weeks after the support price hike. ADEPT has so far given a total of \$60,000 to Republican groups.

The D.C. front groups, given names such as The League for Concerted Action, the Committee for a Better Nation, and Americans Organized for Political Stability are typical of the anonymous political groups that the D.C. law allows. Most merely list a treasurer and have a home address — a majority of the GOP groups in the Union Trust Bank building here. Once received, the contributions are placed in bank accounts for use during political years.

Most of the groups to which TAPE donated its \$125,000 are about as anonymous as such organizations come. Each of the groups, more than 50 in all, were set up to work for President Nixon's re-election and their charters (the charters of the groups are identical) stipulate that funds can be transferred to Nixon's campaign following the GOP convention next year.

RECORDS ALSO INDICATED THAT while TAPE has contributed to Democrats, prior to the announcement of an increased milk support level, TAPE had doled out a total of only \$6,450 during 1971, all to candidates for Congress.

Once money is given to the local committees in Washington, the loosely-written D.C. law allows the funds to be transferred back and forth between political committees without any requirement to state where the money is going. This is why the District is a favorite haunt for anonymous political benefactors.

In light of the recent revelations, it would be interesting to find out from Secretary Hardin the exact nature of the "continuing research" which convinced him that a price support hike for dairymen was indeed necessary.

USDA Creates New Regulation Agency

By DON KENDALL
AP Farm Editor

WASHINGTON (P) — The Agriculture Department wants to create a new agency called the Animal and Plant Health Service to administer federal regulatory programs ranging from disease control to import inspections.

The plan was announced by Agriculture Secretary Clifford M. Hardin. All such functions currently are handled by the Agricultural Research Service.

Under the proposal, to take effect Oct. 22, sub-agencies in ARS dealing with animal health, veterinary biologics, plant protection and quarantine inspections will be transferred to the new organization.

The parent agency, ARS, will continue to handle research programs.

"Both agencies will still be large," Hardin said in his announcement. "Their purposes are different, and both need full-time administration. This change will make it possible for the programs in each agency to

be fully responsive to current problems."

There are approximately 16,000 employees in ARS. Under the reorganization plan, about 5,000 will be transferred to the new agency.

Undersecretary of Agriculture J. Phil Campbell told a news conference the move will not mean more people will be hired.

Campbell said there was no plan now to increase the work load of ARS and the new agency. Rather he said, the split-off will enable the heads of the two agencies to concentrate more on respective responsibilities.

In the past, Campbell said, the administrator of ARS frequently was tied up in regulatory work. By dividing the agency, he said, research will benefit by having its own administrative organization.

Talcott W. Edminster, recently appointed as head of ARS, will continue as administrator of that agency. Dr. Francis J. Mulhern, now associate administrator, will be in charge of the new Animal and Plant Health Service.

Corn-Hog Production Still Hand in Hand

AMES — Under Iowa conditions, the labor requirements of hog production mesh nicely with the labor requirements of corn production. That is a major reason why corn and hogs "go together" in Iowa, according to an Iowa State University extension agronomist.

Harvey Thompson told participants at Iowa State University's Pork Producers' day that regardless of the size of a farm, if there is enough labor to harvest, dry and store corn, apply fertilizer and get the fall plowing done before freezeup, there will be excess labor available during the rest of the year.

Hog production can be an ideal complement to corn because the peak labor periods for hogs are short enough to fit periods of low labor requirements for corn production, Thompson said. The gestation period for swine is relatively brief and since this is when most of the labor is required, it can be regulated with good management.

"Although it is difficult to mechanize hog production the way poultry and other livestock production has been mechanized, hog production has come a long way, especially in growing and finishing hogs," Thompson said.

In general, while Iowa soils and weather are not ideal for record-breaking corn production, Thompson said, they allow the production of profitable yields over much of the state. The acreage of corn produced on a farm unit is largely controlled by the labor available at harvest time, he added.

"Technological changes and the willingness of farmers to accept and use these changes have steadily advanced corn production," the agronomist said. "This combination has allowed farmers to produce an acre of corn with only 3 hours and 39 minutes of total

labor, less than half the time it took 10 years ago.

"With 100 bushels per acre, this amounts to only 2 minutes of labor per bushel. Some farmers, operating at higher yield levels and reduced tillage operations cut the work time to only 1 minute per bushel."

The abundance of corn in Iowa gives the state a competitive advantage in hog production because little or no transportation cost is involved in supplying the feed needs of the state's hog industry, Thompson said.

He listed a number of reasons which help make a family type farm competitive in hog production:

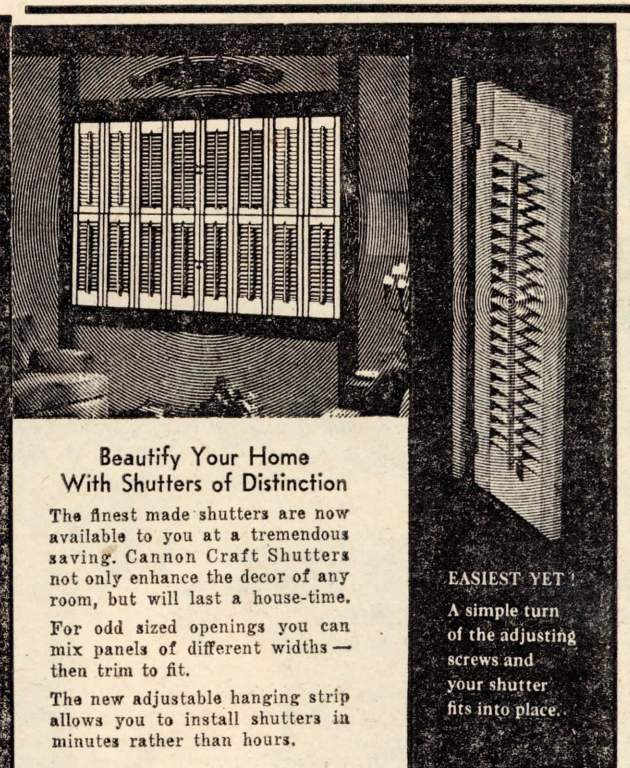
1. It can utilize labor for which there may be no other market.
2. It can utilize corn without built-in transportation costs.
3. It can make diseases more manageable since huge numbers of animals are not usually involved, and
4. It can regulate the number of hogs produced to meet market demands without serious consequences.

Ideas Offered to Add Room

As families grow larger, it soon becomes apparent the only housing solution, short of moving, is to add more room to the house. The problem usually is deciding where and how, and then getting started.

Five architect-designed add-a-room projects show how to gain living space with a loft room, master bedroom, garage conversion, over-the-garage room, and a learning center.

For a copy of the booklet "We Need More Room" send 25 cents in coin to Western Wood Products Assn., Dept. 526-P, Yeon Bldg., Portland, Ore. 97204.



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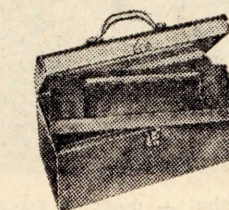
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★ FARMERS

From Page 2

are doing in the conservation Weekly, tells what area farmers movement.

IN IDA COUNTY, IOWA, HARRY BRUECK JR., Battle Creek, (shown on cover picture) farms with his son, Henry Jr. (third) handling 1,200 acres—all of which is under a conserva-

tion plan — meaning terraces, contoured fields, waterways, and structures to manage water on the creeks going through the farm. The Bruecks are in the Crawford Creek watershed. With on-the-land treatment going, the watershed will get into gear in 1973 with major work; within its boundaries on a lateral watercourse a 63-acre lake.

Henry, an ex-soil district

commissioner and conservation contractor, put his own acres into order with 20 miles of terraces, seeding of rolling land into grasses. "The terraces hold 10 million gallons of water," he said. Pastures are lush for the Brueck's 180-head cow herd with calves because of pasture rotation, use of terraces, fertilization of grass and use of supplementary forage during the hot months.

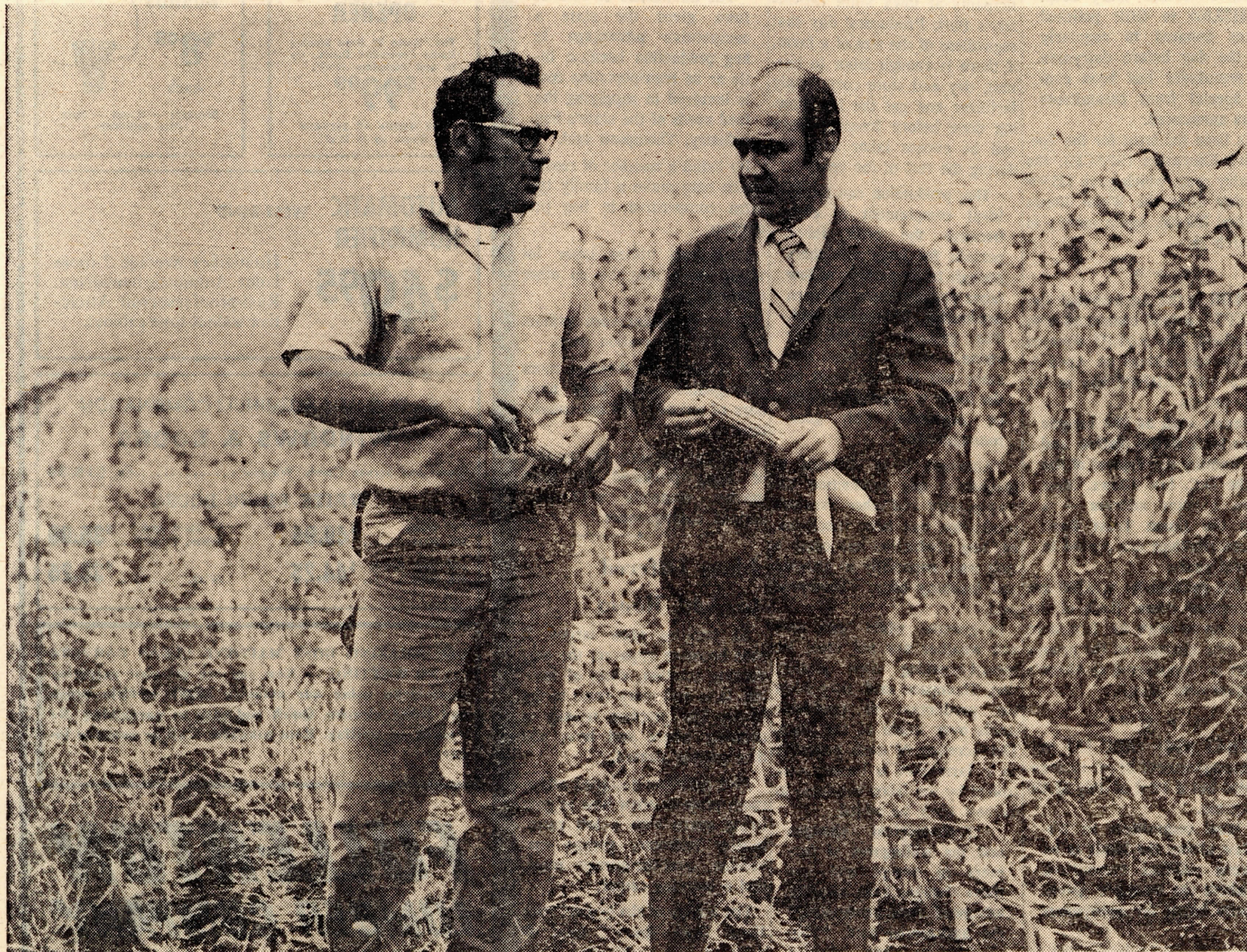
STRIP-CROPPING, as shown in slopes in background, is mainstay of Louis Kerr's conservation farming program. Kerr, Battle Creek, Iowa, farmer, is shown with Soil Conservationist Don Kauffman, Ida Grove, looking out over the half-section.

"Brome and alfalfa goes to the first week of July," Mr. Brueck said, "then we use sorghum — Sudan cross pasture to about August 15. Maybe then we use a silo supplemented feed for a

couple of weeks — then back on brome or sorghum. In the winter the cows run on stalks, with silage and a mineral supplement."

The Bruecks have been cross-

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THIS O'BRIEN COUNTY land looks flat but it needs conservation practices as much as hilly fields. Area winning farmer Jim Wester, Paullina, Iowa, (left) visits with Sioux City Chamber of Commerce Ag member Neil Helvig.

Long, gentle slopes are deceptive, but result in much soil and water loss unless controlled.

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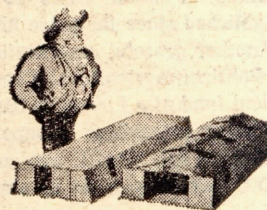
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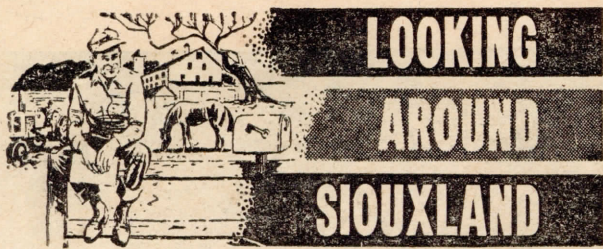
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Carroll Girl to Dairy Event

Three Nebraska 4-H youth will have the opportunity to learn about vocational and professional opportunities in the dairy industry at the 17th annual 4-H Dairy Conference to be held at Madison, Wis., Oct. 3-5. Those attending the conference include Miss Linda Baier, daughter of Mr. and Mrs. Merrill Baier, Carroll; Miss Vicki Brugman, daughter of Mr. and Mrs. Harold Brugman, Douglas and Neil Engleman, son of Mr. and Mrs. Dale Engleman, Harbine, who will be the sponsors for the trip. The conference has the twofold purpose of giving 4-H youth a better understanding of the operations involved in production, processing, marketing and use of dairy products, and to teach the 4-H'ers to cooperate to achieve objectives. Miss Baier, 18, a freshman at the University of Nebraska-Lincoln, completed 4-H projects in dairy, foods, junior leader, clothing, home living, and garden. She was the top junior county clothing member in 1967, top county senior foods member in 1969, state runner-up for food's award in 1969, and won the county public speaking contest in 1971.



Linda Baier

Ida County Outlook Meeting

IF YOU WOULD like to learn more about outlook information, plan to attend an informational meeting sponsored by the Ida County Extension Service. This meeting will be held Oct. 11, in the Ida Grove Golf and Country Club, beginning at 8 p.m. Appearing on the program will be Larry Trede, extension farm management specialist, and Earl Mobley, extension livestock production specialist, Sioux City.

4-H Event at Elk Point

THE ANNUAL UNION County 4-H Recognition Event is scheduled for Saturday, Oct. 23 at the new Elk Point School gymnasium. The program will start at 8 p.m. and is held annually to honor 4-H'ers who have done outstanding work in their projects during the club year. In addition, clubs and leaders will be recognized for outstanding accomplishments during the year. The public is invited and encouraged to attend.

\$4,000 Herd Sire

MORDHORST SPOT FARM, Soldier, Iowa, is now the co-owner of the record-selling (tied) Spotted board after they purchased with Crane Spot Farm, Mitchell, S.D., the \$4,000 Spotted Hog College boar at the National Barrow show at Austin, Minn. The Hog College Boar is each breed's representative at this national event and must come from a certified meat type litter.

Extend Corn Loans

IN VIEW OF THE current supply and demand situation and anticipated production of 1971-crop corn, the USDA has announced that loans on 1969 and 1970-crop corn under extended (reseed) loan, and 1971-crop corn put under farm-stored loan will be extended beyond their announced July 31, 1972 maturity date, according to Ohmer Cook, chairman, S.D. Agricultural Stabilization and Conservation (ASC) Service. The extended loans on 1969 and 1970-crop corn stored on farms were to mature July 31, 1972. Farmers will be given the option to extend these loans until May 31, 1973. For the 1971 crop, the regular warehouse-and farm-stored loans will also mature on July 31, 1972. However, producers will be given the option to extend their 1971-crop farm-stored loans until May 31, 1973, Cook said.

Beef Meeting at Hills

CATTLE FEEDERS of Rock County will want to mark Thursday evening, Oct. 7 on their calendar as the date to attend the Beef Outlook meeting in Hills, Minn. Kent Ringkob, county agent, says the meeting will be held at 8 p.m. at the Vo-Ag shop at the Hills-Beaver Creek High School. Featured speaker will be Bob Jacobs and Ken Egerton, extension specialists from the University of Minnesota. The program will include a panel of local cattle feeders.

Farm Bureau Annual Meet

THE ANNUAL MEETING of the Woodbury County Farm Bureau will be held at the Oasis, Sioux City Municipal Airport, beginning with a 7 p.m. banquet, Thursday, Oct. 7. Roger Fleming, Secretary-treasurer and Director of the Washington, D.C. office of the American Farm Bureau Federation, will be the featured speaker. Election of the 1972 officers for the Woodbury County Farm Bureau will be held, with Ben Nanne, Pierson, presiding. Lewis Foster, vice-president, will lead the discussion of the 1971 resolutions before they are voted upon.

Child Development Meeting

HOW CHILDREN DEVELOP physical and mental abilities and ways that books, toys and play experiences contribute to this development will be the topic of discussion at Schleswig, Iowa, Oct. 13. Gordon Geddes, child development specialist from Iowa State University, will speak to young parents at the 1:30 p.m. meeting at the Schleswig Bank basement. Parents from both

Pleasant Task for Swedish Housewives:

Vacuum Unit 'Whisks' Garbage Away

BROOKINGS — Housewives living in Sundbyberg, Sweden, a community of 30,000 people, bag their garbage much like American women do and drop it into chutes recessed into apartment house walls. But, this is where the similarity ends.

The sophisticated system of collecting garbage used in Sundbyberg is a giant version of the vacuum pipe networks used to convey sales slips and coins in some department stores, explains Carol Jo Thompson, Extension home furnishings specialist at South Dakota State University.

Bertram B. Johansson, a correspondent for The Christian Science Monitor, discussed the Swedish vacuum system for garbage disposal in an article, "Whisking the Garbage," in a July issue of Saturday Review magazine.

Garbage Makes Heat

The garbage drops in the chute a few feet to a valve that opens to let the garbage enter a steel pipe by vacuum force. Then the garbage is whisked away at high speed. The garbage pipe occupies the same underground trench as water and sewer mains. The city garbage collects at a central point where glass and metals are automatically sifted out.

Putrid odors are removed from the air, and the remaining refuse moves into an incinerator to provide heat for the 1,100 apartments now using the vacuum system. Incineration takes place about a half-mile from the apartments so fumes rarely reach the buildings. A revised system, however, compresses trash at the underground collection center, trucking it to

incinerators at the outskirts of the city.

Heat obtained from burning the garbage is equivalent to one-fourth of the heat produced by burning fuel oil, Miss Thompson reports. In summer the system provides all the heat energy needed for hot water in the apartments. Although the system cannot completely heat the apartments in winter, it does reduce the burden of oil burners and, therefore, saves money.

The system is not only a quiet, more convenient system for home dwellers, but is economical for municipal or communal agencies who normally pay for garbage collection. Although the initial cost is high, the system pays for itself in about six years. Big savings come in wages, normally 80 per cent of the garbage collection costs, which amount to only 5 per cent of the total cost of the vacuum system. A single man stationed at an automatic electronic panel is capable of collecting waste from 1,100 to 2,200 apartments, according to Johansson.

The economical aspect of the system qualifies it for consideration as a possible solution to the garbage collection problem in the United States where, according to Saturday Review, "... garbage collection is the third most costly public expenditure exceeded only by schools and roads." Government monies are currently being spent looking for an answer to the American solid waste problem using the vacuum system or something similar.

Writing a companion article entitled, "No Energy to Waste," John Lear described garbage disposal projects now being

supported by the new White House Environmental Protection Agency's Solid Waste Management Division.

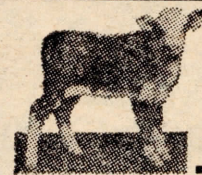
Test Projects

Three projects have been designed to treat garbage after it has been collected: The three-year-old Combustion Power Unit-400 (CPU-400), is built around a gas turbine, a type of jet engine. The Torrax system burns garbage in the absence of oxygen and produces fuel gas. A third system burns garbage as a substitute for coal to raise steam in conventional water boilers.

The CPU-400 turbine is turned by gases its own motion generates, according to Lear. The moving engine blades force

air into a closed chamber at pressures high enough to melt a big bowl of sand. Garbage is dropped into the boiling sand after passing through grinders. Moving from the shredder to the boiling pot, the refuse is dried in an air stream which removes metals, glass and rocks. The remaining substance is burned at an intense heat which dissolves sulfur dioxide as well as hydrochloric acid produced by the plastic content of garbage, Lear explained.

The CPU-400 burner has a daily capacity of 400 tons, the average garbage output of 160,000 people and could easily be adapted to the Swedish vacuum system of collecting garbage, Miss Thompson observes.



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Crawford and Ida Counties are encouraged to attend, according to Norma Morgan, Ida County Extension home economist.

Wool Contest at Denison

DENISON WILL AGAIN host the district Make-It-Yourself With Wool competition, according to Mrs. Roy E. Deiber, district director. The competition will be held at Zion Lutheran Parish Hall on Nov. 13, beginning with registration of contestants from 8 until 9 a.m. and culminating with a style show at 2 p.m. which is free and open to the public. This annual event which is sponsored by the American Wool Council, Iowa State Sheep Association, and locally by the Denison Chamber of Commerce, will draw entries from a nine-county area.

Pattern Fitting Meetings

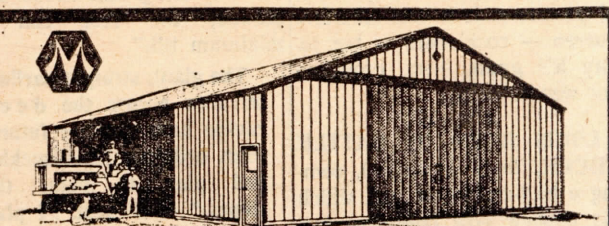
FRUSTRATED WITH fitting patterns!!! If you are, your problems will be solved by coming to "Fitting Patterns—No More Frustrations," presented by the Woodbury County Extension Service Oct. 13 at Anthon and Sioux City. Information on the poured dress forms will be available. A style show will feature outfits fitted on the poured dress form. The latest in sewing ideas will be available. The schedule: Anthon—1:30 p.m.—Bank Building; Sioux City—7:30 p.m.—Morningside Library.

Iowa Youth's Concern Project

YOUTHFUL LIVESTOCK leaders in Woodbury County are being offered a chance to solve a livestock problem and complete for valuable prizes in the 1971-72 Iowa Youth's Concern project, reports Ron Karnatz, Woodbury Extension 4-H & Youth. This activity, geared for livestock-oriented youth leaders, is sponsored by Iowa's organized youth programs in cooperation with Livestock Conservation, Inc. Four categories of competition, based on a research paper involving a livestock production problem, include 4-H members, Future Farmers of America, area technical schools and community colleges, and Iowa State University.

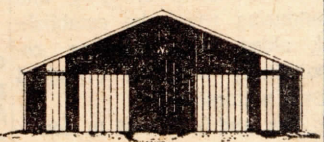
Union County Farm Bureau Meet

THE UNION COUNTY Farm Bureau will hold its banquet and annual meeting 6:30 p.m. Saturday, Oct. 9 at the city auditorium in Alcester, S.D. Gary Enright, South Dakota Farm Bureau administrative director, will be the speaker. Members are urged to purchase their tickets early from Donald Hanson, chairman of ticket sales, or from any one of the Union County Farm Bureau officers or directors.



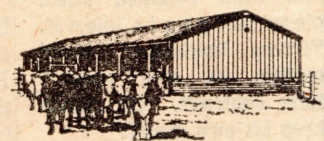
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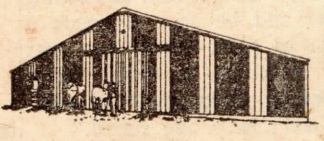


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★ FARMERS

From Page 4

breeding the last five years, using Angus and Herefords, crossing both ways, with good results and offspring demanded by the local market.

"Pasture management is a must," Mr. Brueck said. "Let the grass get started in the spring — the brome and alfalfa up to 6 inches to a foot. Fertilize. And plan for supplemental pasture during the hot months."

Brueck built 13 water control structures on a creek running through his land — with no government help. He used 640 tons of Sioux City stockyards manure to rejuvenate 100 acres of pastureland. It was formerly barren — cockleburs — but today it's grass, lush, crowding out weeds.

LOUIS KERR OF BATTLE CREEK, Iowa, is retired, owning a half-section of land which his nephew now operates. But he's enthusiastic about conservation measures: strip cropping and contouring which he established, along with working cooperatively with the Crawford Creek watershed.

His land is treated to slow down soil and water erosion with grass strips, a corn and bean rotation, sweet clover and grain interval. "Every landowner should contain his own water," Kerr contends. "He should keep his own runoff."

"I like to see the farmer up above me doing the same thing," he said. Kerr has rolling land and he says it needs a rotation plan — only one year for corn on a field. "Strip cropping works fine," he said. "I don't have any runoff."

Six years ago Verle T. Law, Washta, Iowa took over a 240-acre tract without much promise: cockleburs, a tree-ridden gully cutting through fields—30 feet deep. Today, he's farming through it, and has put 35 additional acres to work.

Push-Up Terraces

Exceptional on his farm, located within the proposed Bitter Creek watershed (1974 construction), are the series of

push-up, parallel terraces he constructed on a wide, sloping field, once a sharp, gullied area.

They are unique: parallel — and at some places 15 to 20 feet in height. But they are doing the job in cutting off soil and water runoff on higher-producing bottomlands along the creek. Law farms between the 3 and 4 steep terraces up and down hill — the only solution — but he's doing it the best way — minimum tillage — using a no-till planter.

"Only 40 acres of my 200 acres of corn are plowed," he said. "Alfalfa ground is about the only thing that needs to be plowed, the rest can go minimum till."

The giant, straight parallel terraces across the deep ravine have another future. "I'm ordering honeysuckles and plan to plant the slopes," Kerr said. "I plan to put up a fence around each terrace. This will make a wonderful wildlife area."

Kerr has taken over a farm once much maligned, made it profitable, cut down erosion and flooding and silting on bottomland acres; his upland fields are coming into production.

IN O'BRIEN COUNTRY, IOWA, Area Winning conservation farmer Walt Jeffers Jr., Primghar, explains about land that doesn't look like it needs terracing or conservation work.

His land is almost flat, gently rolling, like most of this rich, O'Brien County country. "But the fields are deceiving — they're long in slopes — and they wash."

This is Walt's home place — he was born here. When he took over 15 years ago he started conservation work. First he contoured fields. Then he found out that wasn't enough and started to put in holding terraces.

His farm is all contoured now, and he has many terraces. "But the job isn't finished. I still need more terraces," he said. And, he went on, he wants to rebuild old terraces in line with the new ideas of parallels, to

STEEP, PUSHUP PARALLEL terraces hold water and soil on Verle T. Law's farm at Washta, Iowa. A former deep gullied area has been reclaimed (some 35 acres) with

unique straight-across terraces. Below: Bob Brink, Sioux City Chamber of Commerce staff member, and Law show 10- to 20-foot height of water control structure.



cut down short rows.

"Neighbors are terracing, too. It has caught on," Walt said. "Corn in my fields below isn't covered with silt as it was in my dad's day."

WILLIAM DeBOOM, PRIMGHAR, in O'Brien County, another Sioux City Area Winner, —laughs when he talks about conservation beginnings. "I wanted to farm straight when I came here," he said, talking about his 140-acre farm. "I had been on a rented farm where the landlord required contour farming. Then he got his own farm in O'Brien County—with fields that seemed level but they had long slopes.

"I looked out one day and

found those long slopes with a 5-acre lake below. Then I knew that this land does wash and lose soil. Drowning out is a problem here, too."

DeBoom's conservation program solved his problems; his wells have been helped in water stabilization. And he admits: "Doing it yourself is a lot easier than when someone else tells you to do it."

JIM WESTER, PAULLINA, IOWA — another Area Winner, is also concerned with O'Brien County's long farmland slopes. He is farming 240 acres, the home farm plus rented acres. Back in 1956 he started contouring and using other con-

servation measures. "The land is fairly level, no tile outlets, we put in waterways, put all fields on one contour line through the middle. All of the fields are parallel to it."

This is corn country he said: 25 acres of beans, 20 acres of oats, 15 acres of hay — but the rest in corn on the 240.

The fields slope — the reason for concern about soil and water conservation procedures. The long slopes, seeming slight to the eye, erode and lose much dirt and water unless contained by contours.

"Actually," Jim Wester said, "it's fun to go around the hill and follow the contour. I like to see that water there instead of running off the hill."

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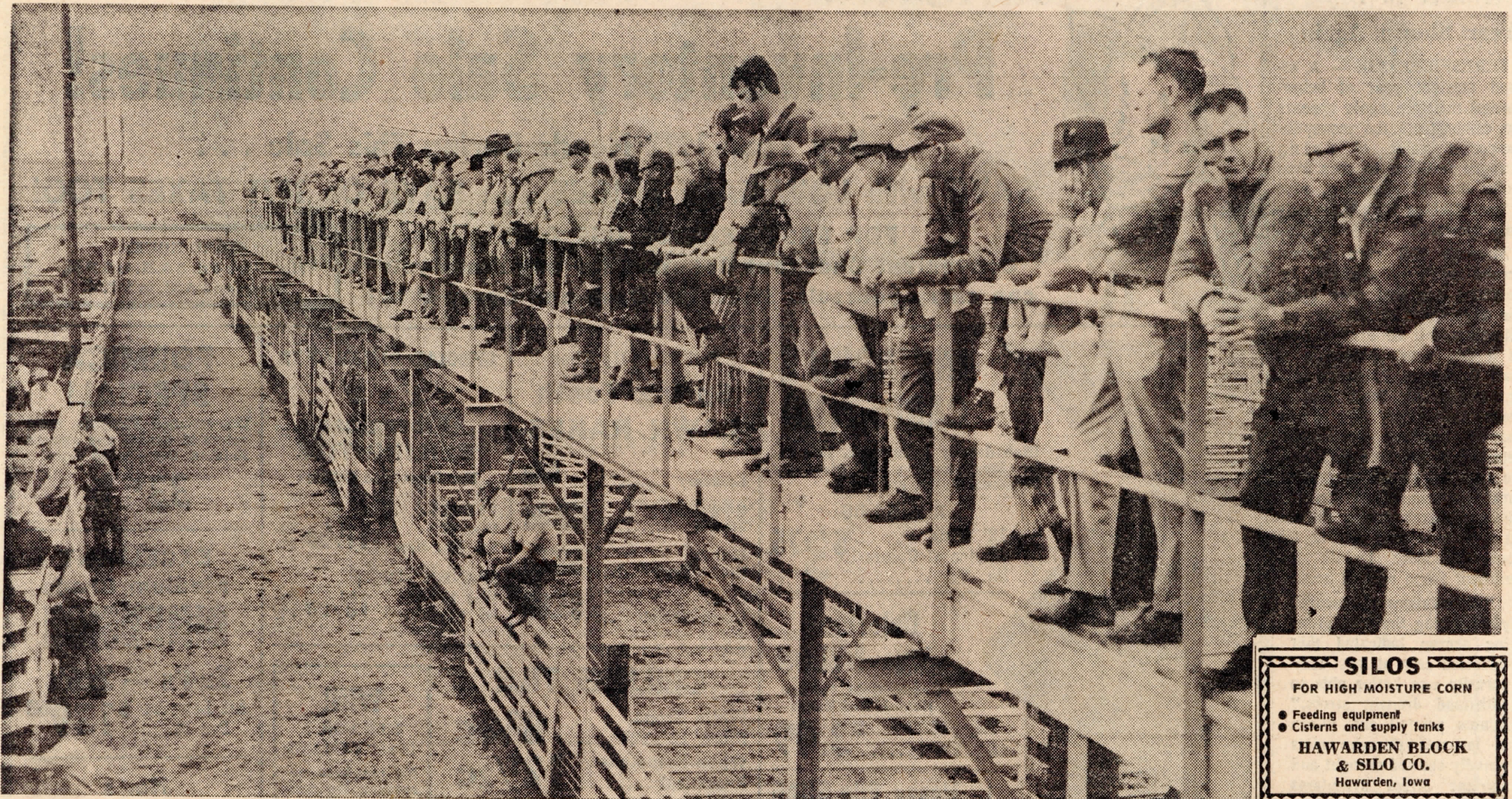
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Visitors jam the stockyards highline to view the auction sale of feeder cattle. Officials estimated some 500 people attended.

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Now-Futures Contract in Feeders

CHICAGO — The Chicago Mercantile Exchange board of governors has approved a futures contract in feeder cattle to be listed when approval is received from the Commodity Exchange Authority.

Everette B. Harris, exchange president, said the new contract completes a three-sided complex that includes the exchange's existing live cattle and yellow grain sorghum (milo) contracts.

"The feeder contract should be particularly valuable to feedlot operators," Harris said, "enabling them to hedge their inventory of calves to be placed on feed along with their slaughter cattle and feed grain, which many already are hedging."

The board's decision was based on extensive feasibility

studies, including one by Gerald Marousek, assistant professor of agricultural economics at the University of Idaho, under an exchange "Fellowship in Futures" grant.

"His study," Harris said, "indicated that all elements for a viable futures contract exist. Volume and price fluctuations of feed cattle exceed those for slaughter cattle, and the calves are less perishable."

"Spreading opportunities may very well develop between slaughter cattle, milo, and feeder cattle," he said.

Among specifications developed for the new contract are the following:

Each contract will be for live feeder cattle of the Choice (80 per cent) or good (20 per cent) grades as defined by the USDA, with each unit to consist of

42,000 pounds, averaging 650 pounds per steer. Suggested trading months are March, April, May, August, September, October and November.

Par delivery will be made from approved livestock yards at Omaha and Sioux City, with several additional alternate points under consideration.

The exchange's live cattle contract, listed in November 1964, was the first futures contract for a nonstorable commodity to be traded successfully on any commodity exchange. It reached a peak of more than 1,000,000 trades in 1969. The milo contract was opened in March, 1971 and has developed what Harris described as an encouraging amount of interest and volume.

The triumvirate of cattle/feed

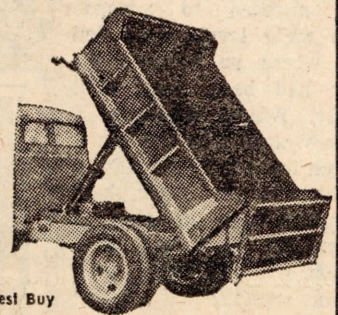
contracts is expected to have particular interest in the Southwest which has been a cattle breeding area for many years but has greatly expanded as a feedlot and milo-raising area. In addition, many major packing houses have established facilities there, including some of the largest and most modern in the world, Harris said.

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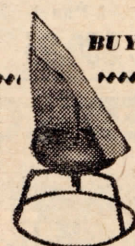
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Feeder Cattle

Feeder cattle and calves at the Sioux City stockyards last week sold steady to 50 cents higher in both private treaty selling and in Thursday's auction trade.

The outgo was estimated at 3,700 head as compared to 3,600 head for last week and 3,200 head for last year. Also, an estimated 1,400 head of feeders was on hand for the auction.

Choice 950 to 1,065 pound feeder steers sold from \$30.50 to \$31.65 with two loads of standard and good Holstein near 1,000 pounds selling at \$27. Choice 800 to 900 pound steers cashed \$31.50 to \$33 with a load of 850 pound kinds at \$33.25.

Choice 700 to 800 pound steers ranged from \$33 to \$35 with several loads of choice including prime at \$36 to \$37.50. Choice 600 to 700 pound feeders cashed \$34 to \$36 with a load of choice and prime 665 pound offerings at \$38.

Choice 500 to 600 pound steers brought \$36 to \$38.

Five loads of choice 800 to 865 pound heifers netted \$30 and choice 600 to 750 pound offerings cleared \$32.50 to \$34. A load of choice including prime 540 pound heifers netted \$35.

A few choice steer calves weighing 400 to 500 pounds brought \$38.25 to \$40 with choice 400 to 500 pound heifer calves selling at \$34 to \$36.25.

Auction sales included a load of choice 754 pound feeder steers at \$35.25 and several lots of choice 672 to 766 pound offerings at \$33.15 to \$36. A part load of 519 pound offerings cashed \$38.

Two loads of choice 702 and 714 pound feeder heifers cleared \$31.50 to \$33.40 and four loads of 607 to 637 pound offerings netted \$33.90 to \$34.35. Three loads of choice 682 to 691 pound kinds netted \$31.70 to \$32.55. A load of choice 575 pound heifers netted \$32.25 and a load of 577 pound kinds brought \$32.60. Four loads of choice 510 to 587 pound offerings sold at \$34.90 to \$36.

Two loads of choice 426 and 488 pound steer calves brought \$38.25 and \$38.60. Four loads of choice 420 to 491 pound heifer

calves went at \$34.70 to \$36.10.

Week Ending: September 30, 1971				
CLASSES AND WEIGHTS:				
STEERS:	Head	Av. Wt.	Av. Pr.	
1,001 lbs. up	226	1057	\$30.60	
901-1,000 lbs.	124	973	31.16	
801-900 lbs.	188	834	32.55	
701-800 lbs.	801	731	34.27	
601-700 lbs.	392	664	34.11	
501-600 lbs.	314	539	36.30	
ALL STEERS	2645	749	36.47	
Heifers: 500-750 lbs.	1384	634	32.53	
COWS: All Wts.	—	—	—	
St. Calves: 300-500 lbs	374	423	38.37	
Hf. Calves: 300-500 lbs	750	447	34.69	
Total Calves	1124	439	35.87	

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The platforms will keep appliances off the floor in event of a ruptured water tank or other flooding, and will raise them for convenience of taller persons. Platforms also may be used to keep garbage cans off damp floors.

For lower platforms, runners of 2x6- or 2x8-inch Douglas fir or western pine, on edge, can be covered by decking of 2x4s laid flat. Higher platforms may have legs of 4x4-inch posts, top frame and cross-braces of 2x4s, and decking of 2x4- or 2x6-inch fir or pine.

Value of Nitrogen Fertilizer in Dry Year Shown Again

BERESFORD, S.D. — A second straight year of below-normal moisture again appears to demonstrate the money-in-the-pocket value of using nitrogen fertilizer on corn even under drought conditions, says a South Dakota State University soils specialist.

Although 1971 corn harvest results aren't yet available, indications are that once again the advantages of nitrogen applications will be evident even in a dry year. According to Earl P. Adams, Extension soils agronomist at South Dakota State University 1970, data showed fertilizer applications returned \$6 per acre over cost. He reported results of Agricultural Experiment Station fertilizer research during the annual visitor's field day at the Southeast South Dakota Experiment Farm west of here.

"Observations of research plots during the past growing season indicated that fertilized corn at least temporarily was better able to withstand drought stress," Adams pointed out. "Corn in low-rate nitrogen plots visually showed drought and nutrient stress symptoms sooner than those plots receiving higher rates."

Recommended rates of nitrogen fertilizer — about 80 to 100 pounds an acre — elevated plant nitrogen to adequate levels while levels were deficient where no nitrogen fertilizer had been used. Additionally, Adams noted, plant analyses show that the use of nitrogen improved the ability of the plants to take up phosphate. Phosphorus use in turn increased the plant uptake of nitrogen.

Adams reported that research at the Farm emphasizes the importance of date of planting on yield and maturity. "For example," he added, "corn yields varied nearly 12 bushels an acre simply due to date of planting. During a 3-year period earliest planting resulted in earliest maturity or lowest grain moisture content at harvest. Late plantings — early June — contained nearly 10 per cent more moisture."

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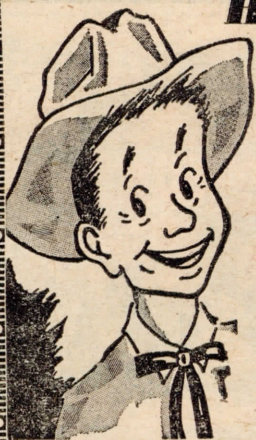
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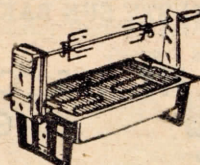
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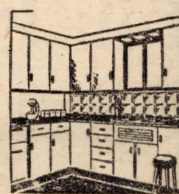
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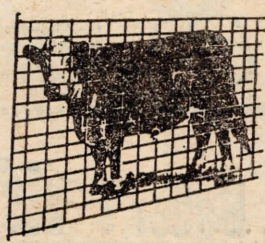
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