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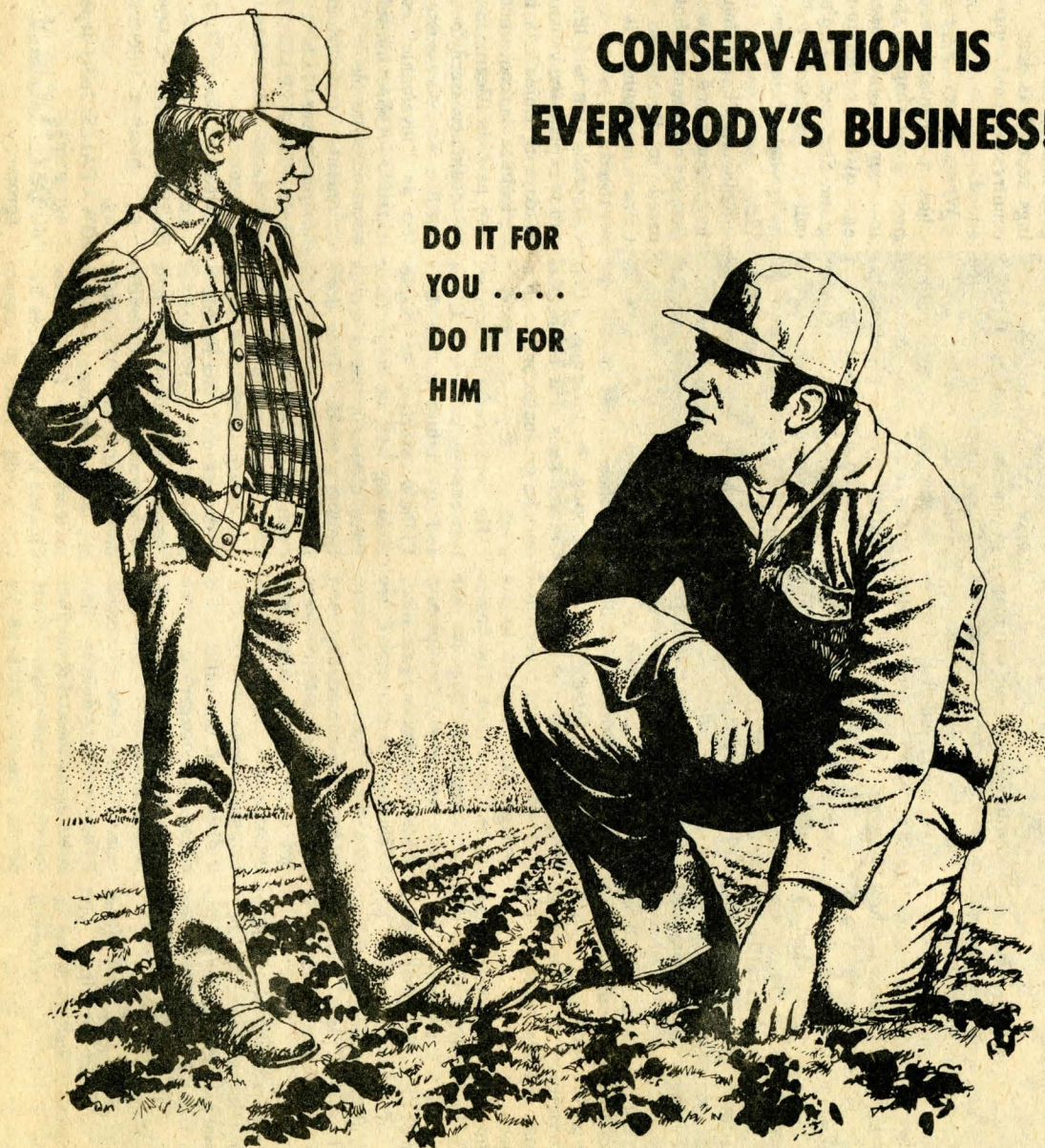
SEPTEMBER 11, 1980

NO. 37

SOIL AND WATER CONSERVATION WEEK - SEPT. 14-20

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first ISU ag study tour to China

Ames, Iowa--Sixteen guests of the Chinese Ministry of Agriculture returned home to the U.S. recently with enough stories and photographs to fill a book.

The guests were 14 Iowa State University students and ISU professors Paul Brackelsberg and John Schafer.

"As far as we know," Schafer said, "this is the first student group from the U.S. to visit China on a study tour in the past 30 years." And, he added, this is the first time an ISU agricultural travel course scheduled a visit to Asia. The students also spent time in the Philippines, Hong Kong and Hawaii.

While the students didn't exactly write a book, they did complete lengthy reports chronicling their journey. Some reports exceed 100 pages.

But, as Brackelsberg noted, "It's the 21 days in China that made the trip unusual."

In 21 days, the group visited six of China's seven key agricultural colleges and traveled by bus, plane, train and boat to more than 12 provinces.

"We were shown just about everything we wanted to see," commented ISU agronomy student David Linn of Correctionville. "It was a fascinating experience."

The group's rigorous schedule included briefings with agricultural leaders in six regions. Following a reception, which included formal introductions and tea, the group toured each region.

The fair-skinned, light-haired Americans, with notebooks and pencils in hand, met with stares as they toured

areas seldom visited by the non-Chinese. "I expected the Chinese to be curious," one student commented, "but I didn't expect the unwavering stares."

Millions of people and many walls stand out in the minds of the ISU travelers. Walls enclosed every building, factory and hotel, commented Elizabeth Curry of Elk Point, S.D., an agronomy/ag journalism major. The walls were too small to hide anything and weren't large enough to keep people out of certain areas, Curry observed. "They made things more orderly."

"People were everywhere," Brackelsberg commented. They always appeared to be working--tending livestock, pulling carts, laboring in the fields. "They are very satisfied with the bare essentials--enough food, a place to call home," he added. The homes are simple--nothing on the walls, except maybe a picture of Mao, Brackelsberg recalled.

Throughout the trip, Curry said, the Chinese people were cordial, accommodating and honest. Conversations were not infused with communist doctrine as Curry had expected, she noted.

The trip yielded cultural and educational experiences no textbook, lecture or film could provide.

In Schafer's words, "There's just nothing that beats being there. I remember the first time I saw 3,000 people digging a fish pond--by hand. Even though we know--intellectually--it's possible, it's a totally different experience to see it." This was Schafer's second trip to China.

For Dean Getting of

Sanborn, the trip was a first. The ag-business/farm operations senior said he had never been out of the country. "I hardly ever traveled outside Iowa that much." But this summer he journeyed through 11 time zones and crossed the international date line.

Getting said he went to China with some goals, but had no strong expectations. While he didn't want to bias himself by anticipating what China would be like, Getting said in the back of his mind he knew he would come away from the trip appreciating the U.S. more than ever before.

"I'm so much more satisfied with life in the U.S. now that I have traveled," Getting said. Nonetheless, his travels did provide experiences that Getting feels will be helpful once he graduates and secures a job.

He noted some differences between agriculture in China and agriculture in the U.S. China's practice of triple-cropping and its huge labor force especially stand out in Getting's mind. "They don't have unemployment," he commented, "they have under-employment."

The large work force is part of the reason China is able to maintain its high level of agricultural production with its minimal amount of mechanization, Schafer said. Since there are so many people available to work in the fields, "the Chinese treat whole acres like you would treat 10 tomato plants." The flat land, favorable climate, fairly rich soils and China's extensive irrigation system add to the high crop output in the country's agricultural regions, Schafer

noted.

Brackelsberg said crops viewed by the group displayed evidence of good breeding and good management. The plantings seemed as dense as the countryside could support, he added.

While Curry agreed the Chinese farmland was "in pretty good shape," she said the country really needs an agricultural extension program. She said China's agricultural research definitely trails what is being done in the U.S.

China does have a long way to go compared to the U.S., Schafer commented, but compared to Burma or Laos, China's agriculture is quite advanced.

Overall, Linn said it's difficult to explain the value of his 21 days in China. As far as agriculture is concerned, he said he didn't learn anything that could necessarily be put to practice. Yet, he assessed the trip as "invaluable" as he learned a lot about himself and about other people.

Students who participated in this year's trip to China are:

CORRECTIONVILLE: David G. Linn, farm operations/agronomy.

CUMMING: Susan H. Head, animal science.

EARLHAM: Dale F. Mueller, ag business/international ag.

IOWA FALLS: Jodi Carpenter, agronomy.

MODALE: Thomas Zahner, agronomy.

MUSCATINE: Jeffrey Schlichting, animal science.

OSAGE: David Thoresen, public service and administration in agriculture/international ag.

PERU: Larry Beeler, agronomy.

RUDD: Julie Pennington, agricultural education.

SANBORN: Dean W. Getting, ag business, farm operations.

Out-of-state:

ILLINOIS: Pleasant Plains, Robert Butcher, farm operations.

OHIO: Bay Village, Stephen R. Crowe, agronomy, seed science.

SOUTH DAKOTA: Elk Point, Elizabeth Curry, ag journalism-agronomy.

WISCONSIN: Brodhead, Jay Mattison, dairy science.

farmland cash rent survey results

1980 cropland cash rental rates average about 5% on estimated market value according to a survey released by Jim Johnson, Hardin County Extension Director.

The survey shows Hardin County high grade land estimated at \$3040 per acre renting for \$128.00, medium grade land of \$2566 at \$105 and lower quality crop land valued at \$1766 renting for \$80.00.

The survey includes nine counties in central Iowa and is based on ag professional's observations locally. Pasture rental rates are estimated at \$20.00 for unimproved and \$28.00 for improved per acre. Hay land averaged \$47.00 in the survey.

Don Gee, Extension Farm Management Specialist speculates that recent recovery in grain and livestock prices will make bidders more aggressive for 1981. Statewide the ex-

tremes will likely be southern and western portions which suffered most yield reduction to northern and eastern which have favorable yield potential, he concludes.

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garden questions and comments

From Susie Reece, Extension Garden & Food Preservation Aide.

QUESTION? How do I know when my potatoes are ready to dig up?

ANSWER: Actually, you can dig your new potatoes any time you wish. Usually the potato will set its skin later in the summer, depending on the variety you have. In other words, if you dig potatoes too early when they're smaller in size you will tend to bruise the skin more. But this is not much of a problem for homeowners. So when potatoes reach the size you wish, simply dig them.

When you're digging your potatoes--look them over. You might find some evidence of disease that will give you a clue not to plant in that same location next year. Rhizoctonia black scurf is one. It looks sort of like clumps of dirt on the potato but won't scrub off. It won't hurt to eat those potatoes--but it does mar the beauty of your crop.

QUESTION? Can an insect trap be used to control infestation of apple trees?

ANSWER: Insect traps, whether they are bait traps, Pheromone traps or black light traps do not control insects in the strict sense of the word. The traps may catch a lot of insects, but it is usually only a small portion of the entire population. Therefore, we do not advocate the use of traps as control. They do have a good applicability as tools as to what insects are present and when.

You can save a lot of those about-to-turn-red tomatoes--just in case a frost threatens. If they're already on the pale green side, go ahead and harvest them. Then keep them in a basket with a cover over

it--or wrap each tomato individually if you want to go to that much work. Either way, they'll ripen for you. There's a gas within the tomato that releases and keeping it contained around the tomato helps with the ripening process, says Reece.

QUESTION? How do I harvest and care for my red kidney and horticulture bush beans?

ANSWER: You should save the harvest of these beans until the seeds are dry and mature on the plant. Protect beans from moth or weevil damage by freezing at 0°F for 3-4 days or by heating in an oven at 180°F for 15-20 minutes. Store in an airtight glass jar.

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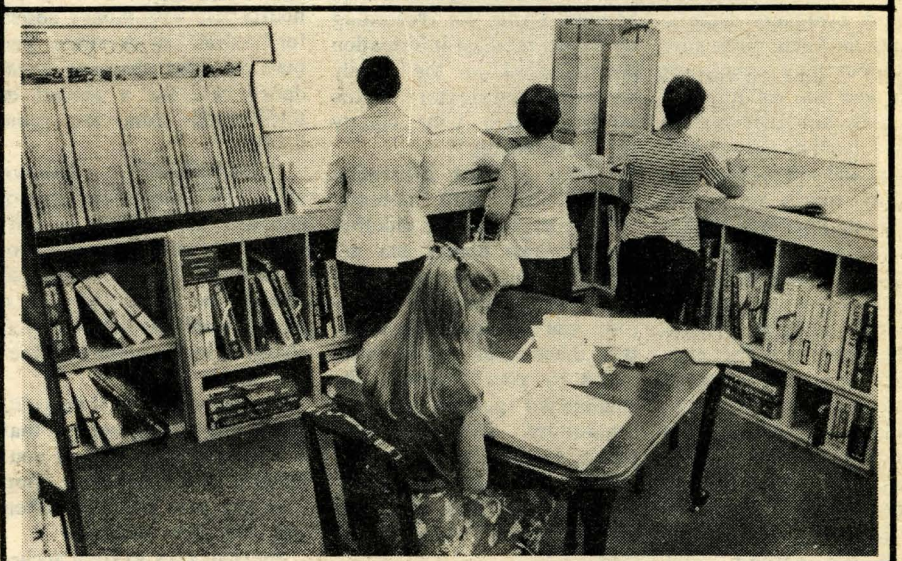


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tips for localizing soil and water conservation publicity

September 14-20, 1980

1. Cost sharing programs for soil and water conservation practices and structures vary from county to county. The dollar figures are important to your readers considering such an investment. Your local soil conservation district (SCD) office can give you figures for state benefits. Your Agricultural Stabilization and Conservation Service (ASCS) office can provide information about federal programs. In addition, many counties are providing funds. Check with your local soil conservation district for information.

2. What soil conservation projects are in progress in your area? New parks? Dams? Terracing? Photographs and program details are easily obtained at your SCD office or county extension office.

3. What conservation projects are local service organizations tackling? Check with 4-H clubs about Conservation Resource Development projects. FFA chapters will be glad to bring you up to date on their Building Our American Communities program. What conservation projects are the local Boy Scouts, Campfire

Girls and garden clubs working on?

4. Watershed development, farm ponds, erosion control, and other projects are still included in federal programs. The county extension director or the ASCS office can tell you about the availability of funds.

5. Many areas of Iowa have large watersheds in some stage of development. Check with the local SCD office for details and possible news about these projects.

6. Local farmers find that conservation farming saves fuel, time, and wear and tear on their equipment. Increased crop yields often are a result of conservation tillage. Your county extension director can provide you with farmer examples in your community.

7. Check with conservation officers, the district forester, SCD office, and the county extension office to see what the volume of conservation work in your area was last year. What are plans for the future? What major conservation problems are there yet to be solved in your area?

8. Your SCD office can

provide names of youth entrants in the Soil and Water Conservation speech contest in your area along with the topic title and a brief biography of the entrant. Their speeches are often lively and require a minimum of editing to print.

9. Are there any new parks, public hunting areas, wildlife refuges or other recreation areas being built in your area? What about major improvements on old areas?

10. What classroom activities on conservation or environmental education are there in your schools? Teaching plans often result from training that teachers receive at extension and other workshops. School administrators can give you these teachers names.

NEWS AND PHOTO SOURCES: County Extension office, Soil Conservation District office, County Conservation Board, ASCS Office, Iowa Conservation Commission, City Park and Recreation Boards, District Forester, 4-H, FFA, Boy Scouts, Girl Scouts, Garden Club leaders, etc.

gives advantages for keeping woodlots

Ames, Iowa--Iowans are facing a serious shortage of a natural resource--trees.

Iowa's forest land area has shrunk from nearly seven million acres to less than 1.5 million acres, reports Iowa State University Extension Forester Paul Wray.

Forest area continues to decrease because these areas are converted to agronomic uses and urban sprawl. In addition, forest land is lost to poor management and abuse, Wray says.

According to Wray, most of Iowa's remaining woodland is not suited for conversion to row crops. Often, the slope of the woodland is too steep for row crops, and soil loss would be excessive. Forest-derived soils are usually shallow and relatively low in fertility.

The trend in converting forest lands to agricultural uses is actually decreasing productivity over time because of soil loss and low fertility of the site, the forester notes. These conditions can sometimes be corrected with proper structures and management. However, the costs of clearing the land and of conservation measures are high enough that the return on such an investment is very low and the payback period is excessively long.

A second and somewhat less intensive conversion of wooded areas is to grazing. Grazing damages the woodlot, the soil resource, and in many cases, is of little or no value to the livestock, according to Wray.

In addition, grazing reduces soil organic matter. Plants below the tree canopy are eliminated, the crown density

of trees is reduced, and tree vigor declines. The soil becomes compacted and often soil structure is destroyed, leading to runoff and erosion problems. Tree reproduction is destroyed, so future tree crops are eliminated. The growth of existing trees is reduced.

Damage to the root systems and the entrance of decay organisms into the tree trunks decreases timber quality. The eventual result of grazing in a woodlot is the slow elimination of trees. By the time this occurs, productivity of the area is usually reduced to nearly nothing, Wray says.

Forage value of a woodlot for livestock is low, Wray notes. Cattle may not gain weight when grazed in farm woodlots without grain supplement.

Maintaining woodlots provides many benefits, according to Wray, because of increased prices for traditional wood products, the economic return of managing woodlots is

higher than ever before. In addition, more Iowans are using wood for home heating fuel. Other values of a managed woodlot include recreational, wildlife, soil conservation and aesthetic benefits.

Several programs are available in Iowa to assist small woodlot owners. Iowa Conservation Commission district foresters will assist individuals with free advice concerning woodlot management and marketing. In addition, the Soil Conservation Service gives advice and help in woodlot management.

The cost of managing timber or improving forest land can be reduced through services and benefits available to private woodland owners. These include: (1) State Forest Nursery of Iowa, which provides inexpensive trees for planting programs; (2) Forestry Incentive Program, which is a federal cost-sharing program for woodland development and improvement; (3) Iowa Forest

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Bremer County 4-H'er tops steer of merit

Ames, Iowa--Alan Lohmann, Readlyn, placed first in the 1980 Steer of Merit competition at the Iowa State Fair. Lohmann's parents are Mr. and Mrs. Ronald Lohmann.

Daryl R. Strohbehn, Iowa State University Extension Livestock Specialist and superintendent of the 4-H beef department at the Iowa State Fair, said, "We saw a heavier muscled set of steers than we've ever had in this class,

and they yielded a higher percentage of lean meat."

Carcass measurements on the Lohmann steer were 15.8 inches loin eye area, .3 inch fat cover, 74.5 percent retail product and \$2.356 carcass value per day of age. The carcass of Lohmann's three-quarter Simmental crossbred steer was the best of five purple ribbon carcasses at the top of the class.

Strohbehn said steers in the 4-H class had more loin eye area, less fat cover and a higher percentage of retail product than steers in the open class performance classic. He said one of the goals of the 4-H class is to create an awareness

of the economically important areas of beef production.

In addition to the five purple ribbons, judges awarded 10 blues when carcasses were evaluated by ISU animal scientists. This is the first year no red ribbons were given in carcass evaluations; all steers merited purple or blue ribbons based on performance and carcass. The cattle were slaughtered by Iowa Beef Processors, Inc., Fort Dodge.

Strohbehn said that the 4-H merit class is also placed live, but premium money is paid only on carcass placings. The class is open to any 4-H member who can provide the birthdate and parentage of his or her animal.

Reserve Law Limits tax evaluation of woodland to \$14.82 per acre; and (4) income from forest land can be treated as capital gains rather than ordinary income.

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Coulter, Iowa

no-till corn saves soil, time and fuel

Clutier, Iowa--Dave Podhajsky had many skeptical eyes looking his way back in 1974 when he first experimented with no-till farming. But now, some of these eyes are beginning to believe what they are seeing.

During his first year of planting no-till corn, Podhajsky increased his yields by nearly 50 bushels per acre.

"That convinced me," he says.

While using conventional tillage methods, Podhajsky had been getting 90-100 bushels of corn per acre. His ground was dry and cloddy, and his stands were poor. He said he knew there had to be a better way of farming.

So, six years ago, he tried a no-till planter loaned free to farmers in his area from the Ortho Chemical Company. Although 1974 was exceptionally dry, Podhajsky saw his best yields ever--nearly 150 bushels per acre.

Podhajsky, who farms 210 acres of hilly land near Clutier in Tama County, is enthusiastic about his no-till operation. He admits he was the talk of the neighborhood when he began planing no-till, however.

"I never saw so many people nearly drive into the ditch watching me plant corn," he laughed. "It takes guts to do this."

He says many farmers still are not convinced, but they are "waking up" to the success he's had with no-till.

After seeing how well no-till worked on his farm the first year, Podhajsky bought a four-row International "Co-Till" Cyclo planter, which he has been using since. The planter features fluted coulters, which cut a narrow track for receiving seed. It also has center ribbed press wheels that press the seed down into the furrow track.

He generally rotates his

crops between corn and soybeans, although he does plant some continuous no-till corn. He uses soil samples as guidelines for fertilizer rates each year.

Podhajsky's pre-plant operations on his cornfields this year included 200 pounds per acre of 10-20-20 dry granular bulk fertilizer. On some land, he injected liquid manure from his hog operation instead of the 10-20-20 pre-plant fertilizer.

On continuous no-till corn, his pre-plant herbicide treatment was one pint of Paraquat with X77 spreader and one gallon of Bladex. With the herbicide, he applied 120 pounds of 28-0-0 liquid nitrogen as a carrier. If the crop needs a "rescue" treatment, he applies Banvel, or 2, 4-D.

During planting, he applied 50 to 60 pounds of 8-32-16 starter fertilizer and 10½ pounds per acre of Mocap insecticide.

He employs a crop monitoring service to monitor his fields for pests. This year he applied insecticide to only half of his fields during planting.

In no-till corn following soybeans, he used a pre-plant treatment of three quarts of Lasso and piggybacked on one-half pint of 2, 4-D and one-half pint of Banvel combination in addition to one pint of Paraquat and X77 spreader.

Soil samples on all his fields were similar, so Podhajsky applied the same rate of fertilizer to both corn following soybeans and continuous corn.

Podhajsky says he still experiments with herbicides, since weeds seem to be his biggest problem with no-till. Other than Paraquat, he doesn't use much more herbicide than conventional tillage farmers. Weeds don't seem to affect yields in a no-till field as much as in a conventionally tilled field, Podhajsky says.

"There will always be a few

weeds that come back in a no-till situation. When they do come back, the corn is already knee high or better, so the corn isn't really bothered," he said.

Podhajsky says he avoids planting corn after alfalfa since alfalfa is especially difficult to kill. When he tried this in the past, he used a quart of Paraquat and X77 spreader, plus four to five pounds of atrazine.

Podhajsky said he was told to plant heavier than usual when he first began no-till, since the ground is generally colder during planting. His planting rate of 24,500 seeds per acre the first year turned out to be too heavy, and he had a lot of barren stalks. Since then, he plants around 23,800 seeds per acre, and gets a final stand of around 20,000.

Podhajsky plants a medium maturity variety of seed corn. This year, he began planting his 120 acres of corn April 28 and finished May 3.

Podhajsky adds that he is never in a hurry to get his fields planted since he's been practicing no-till.

"It (no-till farming) is just a whole different ballgame; it's so relaxed. Other farmers are still out in their fields after dark, but I go out there at seven in the morning and I'm always back by six at night," he said.

By planting no-till, Podhajsky not only saves time, but also fuel. He uses about one-half gallon of fuel per acre to plant corn, at a cost of about 50 cents. In table 1, Dick Pulse, Tama County Extension Director, compares Podhajsky's direct costs per acre for planting no-till corn with conventional plowing and planting.

In table 2, Pulse compares returns per acre over growing costs for conventional corn production and Podhajsky's no-till operation this year.

Podhajsky said the Ortho Chemical Company warns farmers to expect a 10 to 15 percent yield reduction when planting no-till. But Podhajsky said he hasn't seen much loss in yield.

"I won't claim that you will get the same yield as with conventional tillage, but you'll get as many dollars in your pocket at the end of the year," he said.

Podhajsky says he thinks more farmers will be turning to conservation tillage and no-till as fuel prices continue to rise. He says he's seen more reduced tillage this year in his area, but most farmers still insist on plowing. "Plowing is a tradition that's hard to break," he admits.

Podhajsky's wife, Irene, says she thinks the appearance of the fields is one reason why many farmers are reluctant to farm no-till.

"A plowed field looks so nice and clean. When you look at a no-till field, it just doesn't appear as pretty. Appearance is a big thing," she said.

Her husband agreed. "When you get done planting no-till, you just have to close the gate behind you and don't look back."

For farmers just getting into no-till, he suggests reading books on the subject. One which he found helpful is "No-Tillage Farming," by S.H. Phillips and H.M. Young, Jr.

Podhajsky emphasizes the need to go into no-till farming with an optimistic outlook.

"You've got to have your mind made up that it will work, and you need to keep trying," he said. "I had no one around to help me when I first started, and it took pure determination."

"A lot of others tried no-till, but never came back to it. They'd say that it didn't work the first year. But, you've got to keep trying and learning through experience, or it'll fail."

Although some farmers may still be pessimistic about no-till farming, Podhajsky says he has no doubts.

"The only thing I regret is that I didn't start no-till farming a lot sooner," Podhajsky laughs.

incentive payments offered for conserving soil

Des Moines, Iowa--Landowners may receive cost-sharing funds from soil conservation districts for utilizing conservation tillage or mulch tillage systems.

Soil conservation districts and the Iowa Department of Soil Conservation previously had been restricted to cost-sharing only the construction of permanent soil conservation measures like terraces, sediment control basins, and grassed waterways.

The "Iowa Till" program established in 1979 authorizes the department to use up to 10 percent of its annual cost-share appropriation for one-time incentive payments to landowners practicing minimum or mulch tillage.

Landowners in watersheds nominated by soil conservation districts became eligible for a one-time \$30 per acre incentive payment. In return, landowners agree to maintain at least 55 percent residue cover on the field surface immediately following planting for a five-year period.

Participating landowners must place at least half of their row crop acres within the selected watershed under the Iowa Till program. In addition, all farming operations must be conducted on the contour.

Approximately 14,000 acres in seven soil conservation districts entered "Iowa Till" contracts during the 1980 cropping season. More than 119 landowners are using more than \$400,000 of the \$500,000 available this year. Only slight modifications to the existing program are expected for next year.

The Wind Erosion Control Incentive Program (WECIP) offered an additional \$500,000 to landowners this past spring. Funds derived from the road use tax fund can be used for planting or maintaining wind erosion control practices designed to reduce wind erosion which interferes with road maintenance and safe vehicle operation. Guidelines for the program were developed cooperatively by the Department of Soil Conservation, the Iowa Department of Transportation

(DOT), and the Iowa Conservation Commission.

WECIP assistance is offered to critical road segments identified by the soil conservation district, DOT officials, and city or county engineers. Practices eligible for incentive payments under the WECIP program include grass strips, field windbreaks, and minimum or mulch tillage planting adjacent to designated road segments.

Plantings of grass strips, 50 feet wide and extending at least the length of the area to be protected, receive a one-time \$500 payment for a five-year contract to maintain the practice. Planting field windbreaks of trees and shrubs receives a one-time incentive payment of \$1,000 for a 10-year contract. Incentive payments for mulch or minimum tillage systems provide a one-time payment of \$30 per acre for a five-year contract. All plantings and practices must meet the specifications of the U.S. Soil Conservation Service and the Forestry Section of the Iowa Conservation Commission.

The majority of \$190,000 obligated in 43 contracts with landowners was utilized for mulch and minimum tillage. Five contracts were for grass strips.

Arrangements are now being finalized to make the same program available statewide for the 1981 season when an additional \$500,000 will be available. Program guidelines are being altered to enhance the identification of critical road segments and extend eligibility for participation to all 100 soil conservation districts.

"Iowa Till" and WECIP are only two of several programs available to landowners from federal, state and local government. Nearly \$14.7 million is being made available annually for various forms of cost-share payments and incentives.

Table 1. Corn variable [out of pocket] growing costs per acre.

Item	No-Till	Conventional
Seed	\$14.00	\$14.00
Fertilizer	56.00	56.00
Insecticide	6.90	6.90
Herbicide	24.00	14.00
Planter	1.30	1.30
Chopping	----	1.25
Plowing	----	2.90
Discing twice	----	1.70
Cultivating	----	.95
Field Cultivator	----	.78
Hoeing	----	.50
TOTAL	\$102.20	\$100.28

Table 2. Corn returns per acre over total growing costs. [Reflects all variable and fixed machinery costs, labor, seed, and other costs. Fixed costs spread on 240 tillable acres.]

Item	No-Till	Conventional
Returns	\$148.27	\$113.42
Gallons of fuel	.95	4.73
Hours	.30	1.08
Labor Cost	\$1.50	\$5.40
Machine cost per acre	\$30.58	\$71.53
Machine cost, fixed	\$32.00	\$63.00
Number of operations	2	7
Tractor size, H.P.	85	125
Yield, bu./A	125	125

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10 oz. Sirloin \$6.95

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8' x 62' Snow Co, P.T.O. \$1525

8' x 52' Snow Co, 7½ h.p., elec. dr.
. \$1450

6' x 61' Hutch, P.T.O. and Swing
hopper. \$950

6' x 27' Mayrath, 8 h.p. Briggs
(hardly used) \$635

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4 - 325 bu. Parkers on 11 ton Parker
gears, and 12.5L 10 ply, 2 yrs.
old, like new.

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1½ bath, 3 bedrooms.

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bedrooms, clean,
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75 Schult 14x65 2 bed-
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exceptionally clean.

68 PMC 12x60 2 bed-
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bedrooms, priced at
\$2495.

71 Monarch 12x60 2
bedrooms, central air,
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CLASSIFIED ADS**

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HELP WANTED: LPN OR RN. Apply in person. Iowa Falls Care Center. f32utf

WANTED: WOULD LIKE TO share a fantastic business opportunity with a good couple in this area with a \$12,000 a year potential in your spare time. Please enclose phone number. L & V Enterprise, P.O. Box 314, Iowa Falls, Iowa. f37u

WANTED: DAY TIME BABY- sitting in my home. Have 3 yr. old daughter who would like playmate. Please call Mrs. Dale (Barbara) Faber, 648-3253. f37p38

AUTOMOBILES

FOR SALE: 1964 GRAND Prix in good running condition, 66,000 miles. To the best offer received by Sept. 21. Call 648-2223. f37u38

FOR SALE: 1979 BONNE- ville Landau Coupe, p.s., p.b., a.c., cruise, tilt wheel, AM-FM radio, excellent condition, 648-2909 after 5:00 p.m. f36p

FOR SALE: '66 CORVAIR Corsa, 6 cylinder, 4 one barrels, factory air conditioning, factory gauges, inspected. Call 648-3540. f29utf

FOR SALE: 1974 VEGA ST- ation wagon, air, new tires, red title, Must sell. 864-2453. f36u37

FOR SALE: 1978 FIAT X19, 20,000 miles, excellent gas mileage, excellent condition. Must sell. First reasonable offer. Ph. 648-3810. f37utf

FOR SALE: 1976 BOBCAT Wagon, AM-FM radio, air cond., aut., Zebart, 43,000 miles, \$2500. Ph. 864-3198. f37u38

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Iowa Falls f37u

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FOR SALE: YORKSHIRE & Spotted boars and gilts, production records available. Duane Kruckenberg, Iowa Falls. Ph. 648-4419. f6utf

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WANTED TO RENT: HALF slip for wedding gown and also size 10 white bridal slippers. Ph. 648-2484. f35u37

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WORK WANTED: BY DAY, week, month or permanent. Experienced with hogs, general farm work. Available now. 648-9967. f37utf

WANTED: PAINTING. COM- plete painting service. Also wallpapering. Free estimates. Quality work. Evenings after 6 Ph. 859-3947. Dean's Painting Service, Alden. f9utf

WANTED: PART TIME laundry helper, part time housekeeping. Apply in person. Iowa Falls Care Center. f37utf

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FOR SALE: FURNITURE grouping of unfinished wood with plaid cushions of neutral tones includes couch, love seat, chair with wooden foot stool, coffee table and end table. \$250, fairly new. Ph. 648-3304. f37u38

FOR SALE: 2 - 250 GALLON fuel oil barrels. Ph. 648-4344. f37p

FOR SALE: AC SERIES 80, 316 mtd. plow w/gauge wheel. Ph. 648-9194. f37u

FOR SALE: 4 - 14" CHROME wheels to fit Chev. or other General motors. 2 - J70x14 tires. 648-2909 after 5:00 p.m. 36p

FOR SALE: WHITE PICKET fence, 75' of 4" lumber, w/4x4 posts, \$50; web fence, real good. Ph. 854-2402. f37u

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FOR SALE: VERY GOOD flexsteel olive green davenport. Brown vinyl recliner. Ph. 458-8866. f37u

FOR SALE: 16'x22' GARAGE with a 7x10 roll up door. To be moved. Carl Dreifke, Ph. 864-2714. f36u37

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**Used Equipment
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FOR SALE: BUILDING COM- ponents, seconds, metal, mixed nails, lumber, etc. Call K-Van Construction, 648-4122, 9-12 and 1-5 weekdays. f25utf

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FOR DETAILS 37u38

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FOR SALE: SNARE DRUM w/case, like new. Ph. 899-2266. f36u37

FOR SALE: 8x10 WOOD overhead door. Carl Dreifke, 864-2714. f37p

FOR SALE: GOLF CART, 4 wheel, electric, \$600. Ph. 648-4527. f37u

FOR SALE: PORTABLE power washer, 600 lbs. pressure, per square inch. Reg. \$339.95. Our Price \$279.00. Krogh Feed & Supply, Hwy. 65 & 20 North, Iowa Falls. Ph. 648-9123. f45utf

RIDING MOWER, NEW, 8 h.p., Briggs & Stratton engine, \$675. Hite's True Value, 648-2440. f37u

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STILL AVAILABLE: DELUXE 5000 BTU air conditioner, 3 speed, high efficiency, has energy saver, \$249.88 post. paid. Montgomery Ward, River Hills Mall, 648-2541. f37u

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FOR SALE: USED FEDDERS air conditioner, \$75; Marlin Golden 39A 22 cal. rifle, \$125; Remington Model 11 - 12 gauge auto. shot gun, excellent condition, \$200. Ph. 648-9269 after 6 p.m. f36u37

FOR SALE: DUAL FUEL PRO- pane conversion systems for pickups, trucks and vans. J & J Builders. 859-3938. f16utf

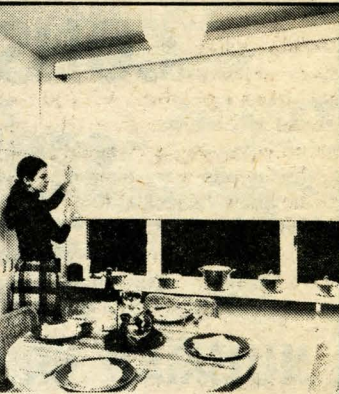
LAWN TRACTOR, NEW, 11 h.p., Briggs & Stratton engine, \$950. Hite's True Value, 648-2440. f37u

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FOR SALE: 1980 SCORPION 440 Sting with cover, still under warranty. 648-2909 after 5:00 p.m. f36p

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Window Quilt™
stops the great
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**New kind of thermal
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This multi-layered thermal shade eliminates up to 79% of winter heat loss through single-glazed windows, as much as 66% through double-paned glass. They're four times more effective than storm windows.

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**\$1 INSTALLATION
CHARGE**

**Install now and save with
your choice of 2 popular
ways to have filtered
conditioned water.**

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Culligan portable exchange service requires no electricity or drain. We connect the softener unit at a convenient location. We periodically exchange the entire unit for a fresh one.

We install one of our fully automatic water conditioners, and set the Electro-Timer to recharge the unit and service it, if necessary. You pay a small monthly rental rate.

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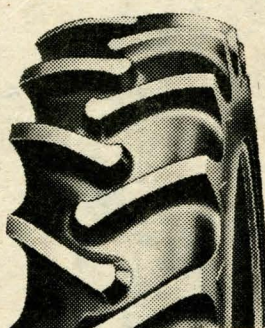
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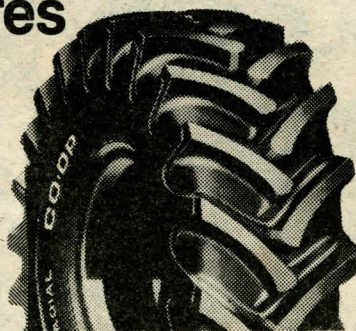
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In the photograph above Steve Manternach, district conservationist, is standing by the concrete drop spillway completed this summer on the John Graham farm in Eldora Township. This structure has a 4 foot drop relatively large for its type, and will prevent surface runoff from washing a gully in the field above the spillway.

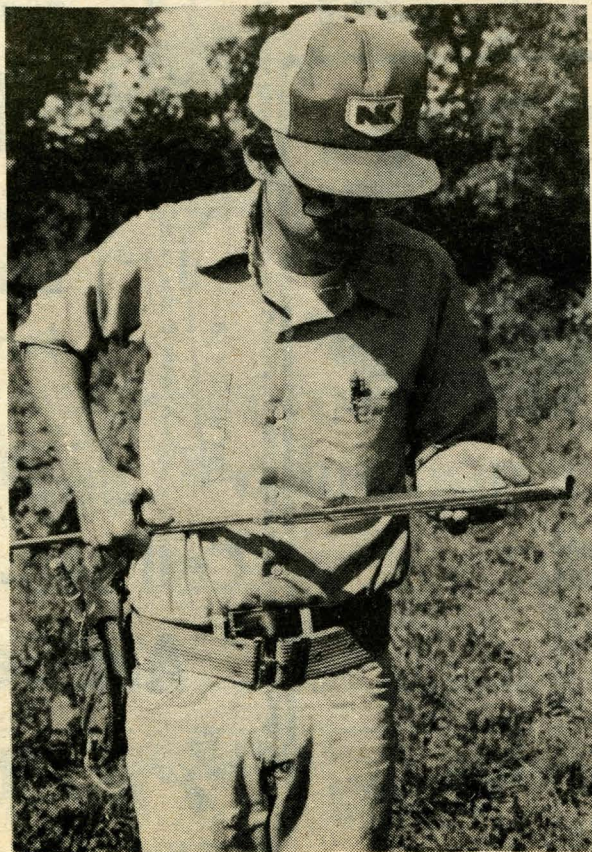
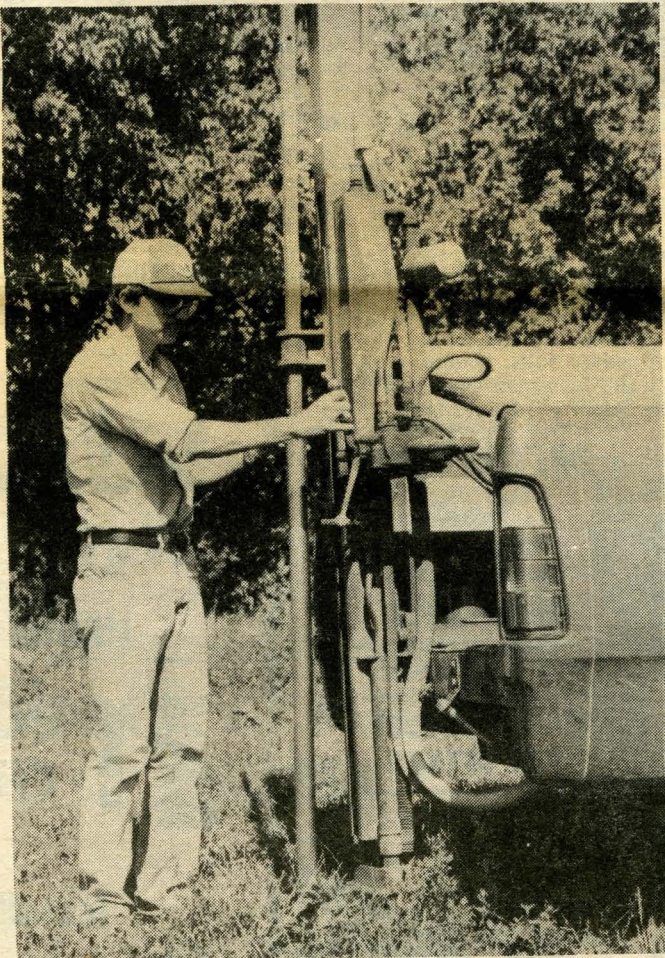
In the photo to the right is a sheet pile drop spillway completed this past July for the Lundy Brothers in Clay Township. Its function is the same as the concrete drop spillway, but in this location a combination of concrete and sheet steel was used because the presence of a large amount of wet sand at the pike prohibited the use of a solid concrete structure. The purpose of the two types of spillways is gully control.



In the photo on the upper right, Tom O'Connor demonstrates the use of a power probe, which is used for taking deep soil cores. It is capable of probing 20 feet deep and taking a soil core which is then used to determine soil parent material which in turn is used to determine a location's suitability for a pond or other conservation construction.

To the lower right, Tom uses a hand probe to take a soil core for mapping purposes. Tom and two other soil scientists, Kermit Voy, Party Leader, and Norman Johnson, use the cores to gather information on the soil properties, texture, drainage, etc., to make a map identifying landscape and soil types. They are working on the Hardin County Soil Survey, on which the center of the county remains to be completed.

Shown in the picture to the far right are Jerry and Ruth Butler in front of the pond constructed recently in Pleasant Township for Jerry's father, Max Butler. It was completed in July and is beginning to fill, having accumulated a depth of 10 feet where a gully had previously existed. The water should reach the level of the sod [visible behind Jerry and Ruth] when the pond is full. Max has already begun stocking the pond with bass, crappie and catfish.



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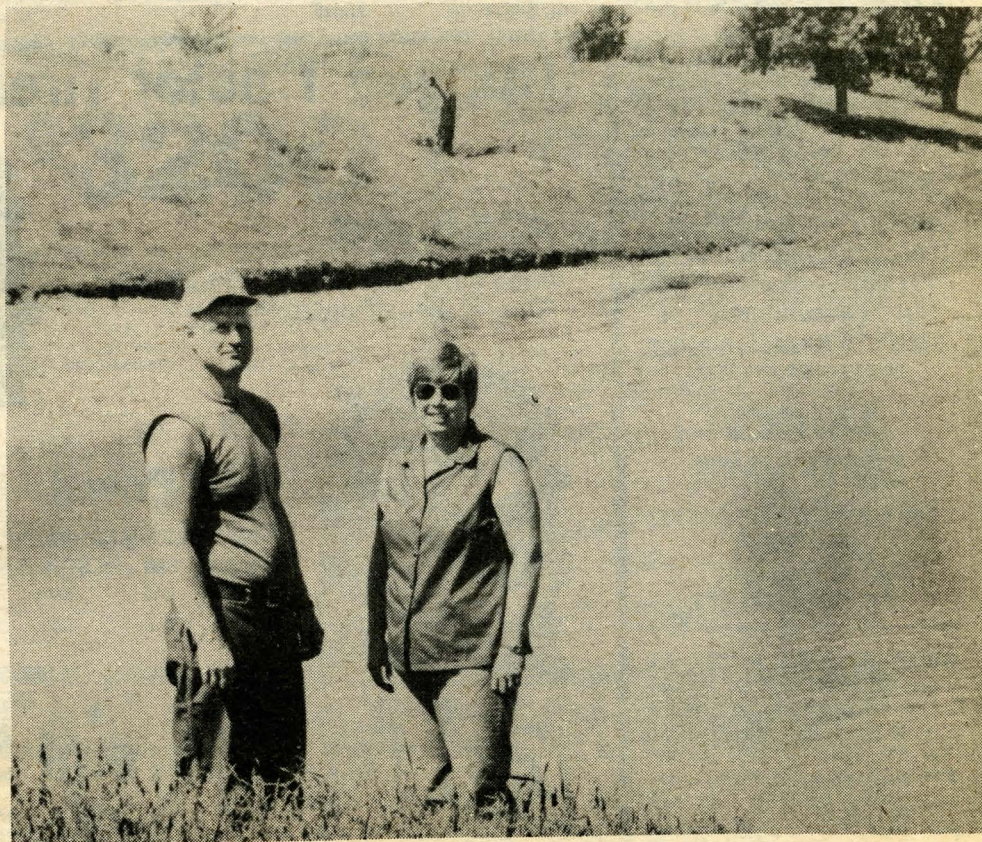
ALDEN

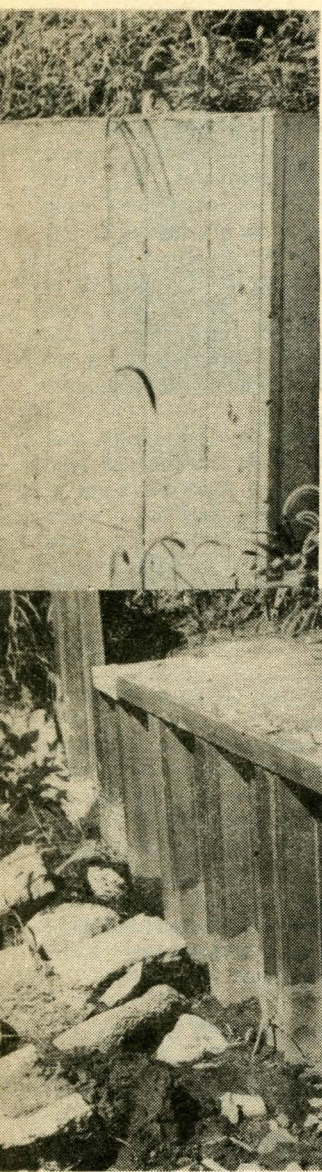
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Half of our topsoil has been lost on unprotected sloping soils in only about 100 years of farming. And if the present rate of loss continues the remaining soil could be gone in less than 100 years.

It's up to all of us to protect the soil and water that provide our livelihood and that of future generations. The land we live on is our most cherished possession.





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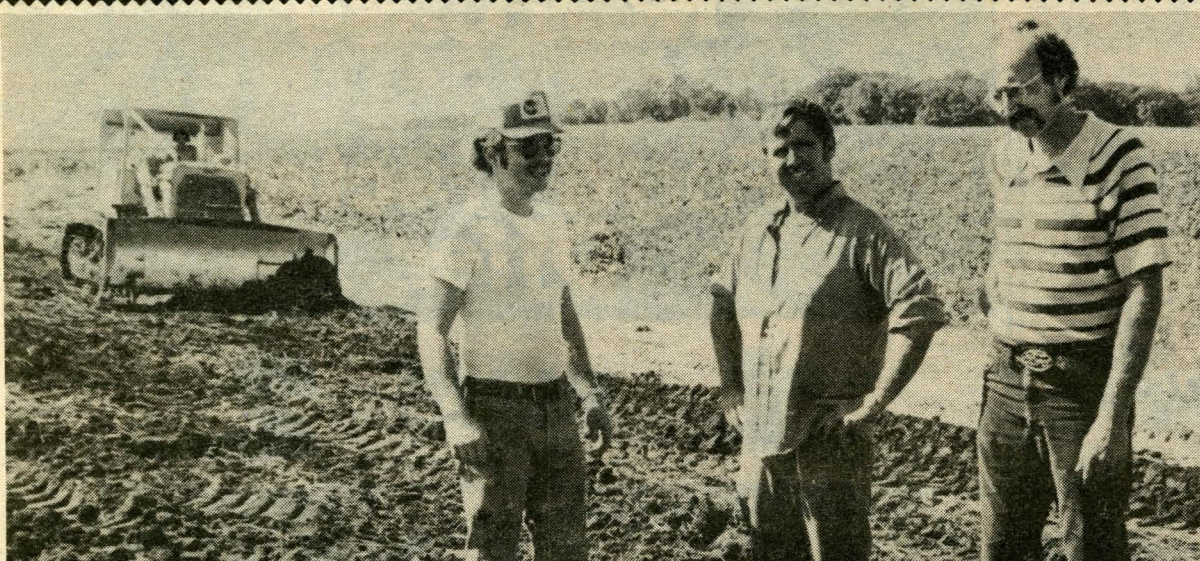
Upgrading drainage systems can increase crop yields. Drainage problems are especially obvious in wet areas where blank spots and poor yielding crop provide a dramatic picture of the effects of poor drainage on agricultural land. Subsurface drains should be inspected annually and damage corrected. Ditches filled with silt from eroding land should be cleaned and in some cases lowered to provide good outlets. The better drained the soil, the less tillage needed. The purpose of terracing is to get 100% of the surface water to go underground into the tile system. Modern terraces keep almost 100% of the soil on the land where it can be used for productivity rather than down the river where it can damage the stream.

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 Quality Built to Last Longer
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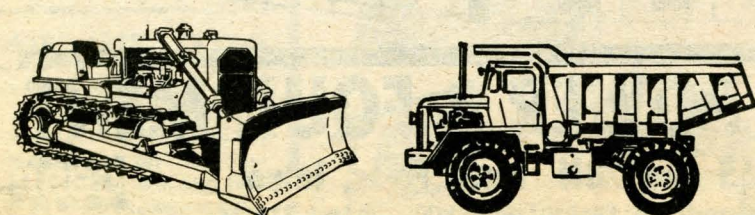
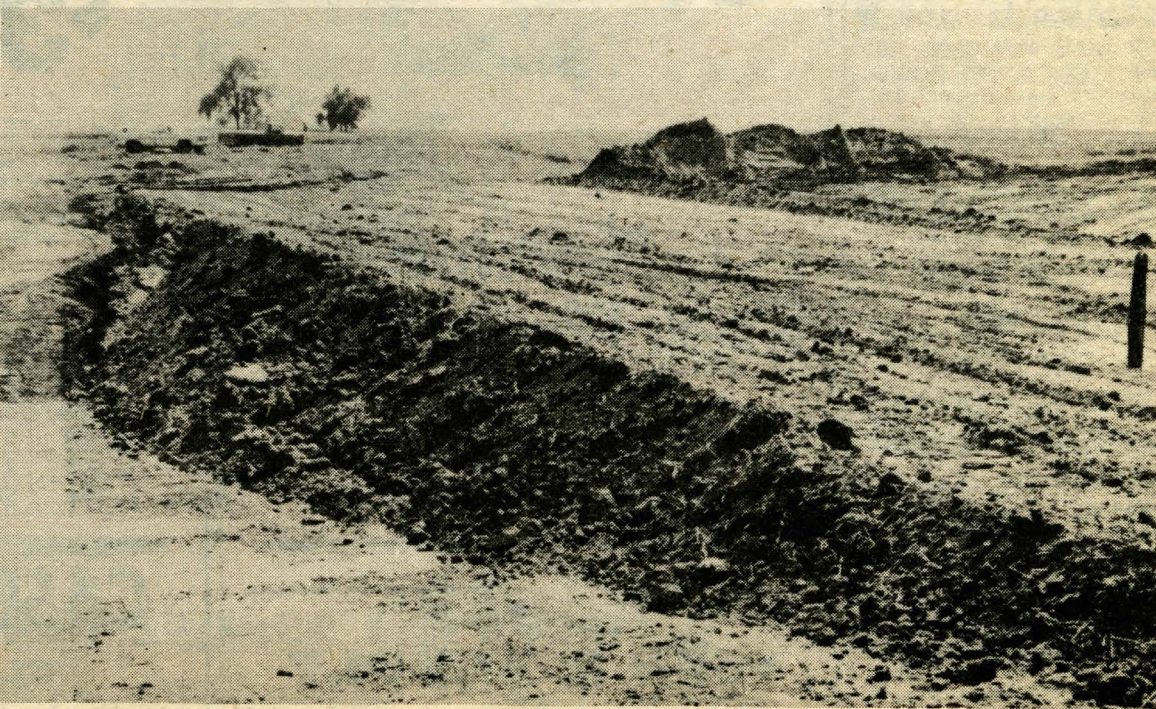
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 FARM DRAINAGE AND
 GENERAL EXCAVATING
ACKLEY 847-3231
FARM BUREAU SERVICE CO.

 Serving Hardin County



In the photo to the far right we see Melvin Jeske standing next to the intake pipe near the new terrace finished recently on his farm in Pleasant Township. Steve Manternach is standing on the terrace to indicate its height. This terrace is a narrow-based one with the intake located next to the terrace. The narrow base in this location results in more land in production than would have been possible with a grassed backslope terrace. Another plus is the location of the intake next to the terrace, which means it doesn't get in the way of field equipment. An important reason for using the narrow-based terrace is the cost, which is 1/3 the cost of a grassed backslope terrace. Therefore, 3 times as much terracing is possible for a given amount of money.

Also shown are two terraces on the Bill Gilbert farm in Ellis Township. The one to the right, which was just completed, is a grassed backslope terrace. The steeper back side will be in grass, while the front side will be in production. The terrace directly above, still under construction, will be a broad-base terrace, which works well on ground with less slope, and will be farmed on both sides of the terrace. Pictured are Bill's son, John Gilbert, with Bob Gehrke of Gehrke Construction Co., and Steve Manternach, District Conservationist.



MOBILE HOMES

FOR SALE: NOMAD trailer, 18', self-contained. Would trade for motor home. Ph. 456-3177 after 6 p.m. f37p38

FOR SALE: 1973 MOBILE home, 14x65, excellent condition, 2 or 3 bedrooms, partially furnished, \$5000. Call after 5 p.m. 648-4310. f37u44

FOR SALE: 14x70 BUDDY mobile home, 2 bedroom, central air, carpeting, drapes, dishwasher, garbage disposal, counter top range, eye level oven, skirting & blocks. Ph. 847-3134. f35u38

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FOR SALE: 1978 KAWASAKI KZ1000 with 6" extended forks, pull back bars & adjustable sissy bar. Ph. 648-3100 after 5. f34uttf

FOR SALE: 1979 KAWASAKI 1300, 7,000 miles, loaded w/accessories, excellent condition. Call 858-3785. f36u37

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USED HONDAS

1979 750 LTD Honda with fairing
1976 550-F Honda, nice \$1150
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USED SUZUKIS

1979 GS1000L with fairing, lower case savers and rack. Save! \$2650

USED YAMAHAS

1978 750 Special with drive shaft \$1695

Your Choice For \$275:

2 Yamahas 80's

chris n son

Iowa Falls
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f37u

RUMMAGE SALES

GARAGE SALE: SAT., SEPT. 13, 8 to 5, 1103 Cadet Road, Iowa Falls. Clothing, misc., lots of children's & adults books, portable stereo, Cleveland flute with music stand & lyre. Baby play pen. f37p

RUMMAGE SALE: THURS. & Fri., Sept. 11 & 12, 8 to 8. Antiques, old clocks, wall telephone, ice box, crocks, jugs, dishes, chairs, rockers, pictures, old instruments, tools, old toys, round oak table. 403 Park, Iowa Falls. f37p

AUTOMOBILES

FOR SALE: 1978 GMC "20" Van, A.T., P.S., A.C., cruise, tilt wheel, aux. heater, AM-FM cassette, CB radio. 648-4621, after 5 - 648-9406. f37u

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SNOW BLOWERS IN
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f37u

WE HAVE SEVERAL
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IN STOCK,
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Located 3 miles south of
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east and 1/4 mile south or 1
mile west and 2 miles north of
Kesley.

Mike Sheehan & Associates
James Hanson, Owner
Ralph Wessels, Auctioneer

PARTITION FARM AUCTION

Sat., Sept. 13 - 10:00 A.M.

Located 2 miles south of Dows,
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and 1/2 mile west or 11 miles
north of Williams, Iowa on
County Road R-75 and 1/2 mile
west or 5 miles north of I-35
Interchange number 151 on
County Road R-75 and 1/2 mile
west.

Elwood Bauge Farm
Joy & Johnson Auction Co.
Inc., Auctioneers

MRS. PEARL McAFEE

HOUSEHOLD AUCTION

Sat., Sept. 13 - 1:00 p.m.

713 E. Chestnut St.
Hubbard, Iowa
Philip Brinkmeyer, Auctioneer
Hubbard, Iowa, Ph. 864-2298.

LeRoy Hilleman

FARM EQUIPMENT

AUCTION

Fri., Sept. 19 - 10 a.m.

Located 2 miles north, 1/2 east
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soil losses are real

Guest Editorial by:
Gary Walters, Chairman
Hardin County Soil
Conservation District

If you don't think soil ero-
sion is a problem on land you
farm, or in this country, this
column is for you. I think there
are still many farmers who
question whether the soil loss
figures they see and hear are
accurate. There are many who
believe soil erosion is a prob-
lem in another part of Iowa,
but not in their neighborhood
or especially on their own
farms.

On one hand, it's under-
standable. A soil loss of 10
tons an acre (the Iowa average

on cropland) is only 1/14 of an
inch across the acre. That's
very difficult to notice, espe-
cially if you'd rather not see it.
Of course, there are years soil
loss is less than that, too.

On the other hand, there are
years when soil loss is much
greater. The erosion that oc-
curred this year over much of
the state was all too easy to
see. Or think about how your
land looked 10 years ago and
how it looks today. Anyone
with any sloping land at all has
probably seen lighter colored
soil in spots and a build-up of
soil at fencelines--sure signs of
erosion.

Look at soil surveys, where

topsoil depths are described.
Then compare that to original
topsoil estimates, and you'll
find the soil loss figures being
quoted fit the historical pic-
ture.

Figures like two bushels of
topsoil loss for a bushel of corn
produced, and an inch of soil
lost every 14 years are at-
tempts to help visually explain
soil losses.

I have an idea, though, that
deep down most of us who
work with the land know if
we're losing soil. The question
then is whether we care
enough to do something about
it.

horse industry council is two years old

Ames, Iowa--The Iowa
Horse Industry Council has
experienced a 38 percent
membership increase during
its second year. Council presi-
dent Gary Freeman of Mason
City said that membership has
increased to 90 at the council's
membership meeting recently.

Freeman said some of the
council's significant accom-
plishments during the past 12
months have included: estab-
lishing a working relationship
with the Iowa Conservation
Commission regarding park
and recreational development,
petitioning the Attorney Gen-
eral for sales tax exemption on
biologicals for equine use and
initiating action on Import
Piroplamosis testing through
the state veterinarian.

The council sponsored a
horse health seminar and pro-
vided an open forum with the
State Fair Board and breed
groups. The organization was
recognized in the American
House Council listings for the
first time. There are currently
32 state councils across the
country.

According to Dr. C.L. Nel-
son, Extension Veterinarian at

Iowa State University and one
of the founders of the Iowa
council, the organization exists
to promote, protect, and rep-
resent the horse industry in
the state. Persons interested
in any phase of the horse
industry are welcome to join.
More information can be ob-
tained by contacting Julie
Bailey, council secretary, Earl-
ham, Iowa 50072.

Elected directors at the an-

nual meeting were: Howard
Victor, Indianola, and Sally
Blount, Waukee; re-elected
directors were: Nelson; Bailey;
Dr. William Ryan, Fort Dodge;
Dr. Anthony Prickett, Cum-
mings; and Jim Kiser and Tom
Wickersham, animal science
specialists at Iowa State Uni-
versity.

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2090	\$1500	4890	\$3200

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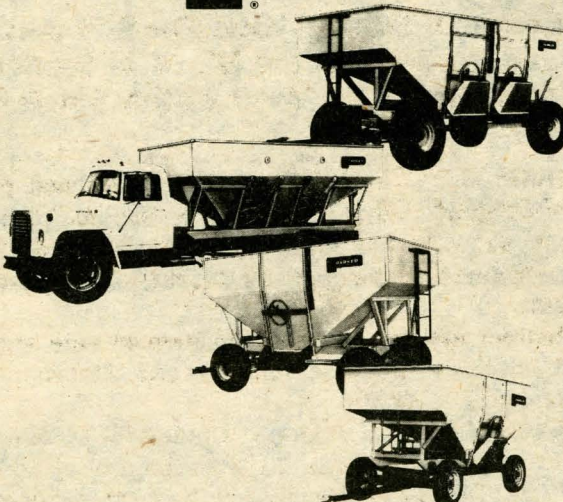
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no-till corn saves soil, time and fuel

Clutier, Iowa--Dave Podhajsky had many skeptical eyes looking his way back in 1974 when he first experimented with no-till farming. But now, some of these eyes are beginning to believe what they are seeing.

During his first year of planting no-till corn, Podhajsky increased his yields by nearly 50 bushels per acre.

"That convinced me," he says.

While using conventional tillage methods, Podhajsky had been getting 90-100 bushels of corn per acre. His ground was dry and cloddy, and his stands were poor. He said he knew there had to be a better way of farming.

So, six years ago, he tried a no-till planter loaned free to farmers in his area from the Ortho Chemical Company. Although 1974 was exceptionally dry, Podhajsky saw his best yields ever--nearly 150 bushels per acre.

Podhajsky, who farms 210 acres of hilly land near Clutier in Tama County, is enthusiastic about his no-till operation. He admits he was the talk of the neighborhood when he began planing no-till, however.

"I never saw so many people nearly drive into the ditch watching me plant corn," he laughed. "It takes guts to do this."

He says many farmers still are not convinced, but they are "waking up" to the success he's had with no-till.

After seeing how well no-till worked on his farm the first year, Podhajsky bought a four-row International "Co-Till" Cyclo planter, which he has been using since. The planter features fluted coulters, which cut a narrow track for receiving seed. It also has center ribbed press wheels that press the seed down into the furrow track.

He generally rotates his

crops between corn and soybeans, although he does plant some continuous no-till corn. He uses soil samples as guidelines for fertilizer rates each year.

Podhajsky's pre-plant operations on his cornfields this year included 200 pounds per acre of 10-20-20 dry granular bulk fertilizer. On some land, he injected liquid manure from his hog operation instead of the 10-20-20 pre-plant fertilizer.

On continuous no-till corn, his pre-plant herbicide treatment was one pint of Paraquat with X77 spreader and one gallon of Bladex. With the herbicide, he applied 120 pounds of 28-0-0 liquid nitrogen as a carrier. If the crop needs a "rescue" treatment, he applies Banvel, or 2, 4-D.

During planting, he applied 50 to 60 pounds of 8-32-16 starter fertilizer and 10½ pounds per acre of Mocap insecticide.

He employs a crop monitoring service to monitor his fields for pests. This year he applied insecticide to only half of his fields during planting.

In no-till corn following soybeans, he used a pre-plant treatment of three quarts of Lasso and piggybacked on one-half pint of 2, 4-D and one-half pint of Banvel combination in addition to one pint of Paraquat and X77 spreader.

Soil samples on all his fields were similar, so Podhajsky applied the same rate of fertilizer to both corn following soybeans and continuous corn. Podhajsky says he still experiments with herbicides, since weeds seem to be his biggest problem with no-till. Other than Paraquat, he doesn't use much more herbicide than conventional tillage farmers. Weeds don't seem to affect yields in a no-till field as much as in a conventionally tilled field, Podhajsky says.

"There will always be a few

weeds that come back in a no-till situation. When they do come back, the corn is already knee high or better, so the corn isn't really bothered," he said.

Podhajsky says he avoids planting corn after alfalfa since alfalfa is especially difficult to kill. When he tried this in the past, he used a quart of Paraquat and X77 spreader, plus four to five pounds of atrazine.

Podhajsky said he was told to plant heavier than usual when he first began no-till, since the ground is generally colder during planting. His planting rate of 24,500 seeds per acre the first year turned out to be too heavy, and he had a lot of barren stalks. Since then, he plants around 23,800 seeds per acre, and gets a final stand of around 20,000.

Podhajsky plants a medium maturity variety of seed corn. This year, he began planting his 120 acres of corn April 28 and finished May 3.

Podhajsky adds that he is never in a hurry to get his fields planted since he's been practicing no-till.

"It (no-till farming) is just a whole different ballgame; it's so relaxed. Other farmers are still out in their fields after dark, but I go out there at seven in the morning and I'm always back by six at night," he said.

By planting no-till, Podhajsky not only saves time, but also fuel. He uses about one-half gallon of fuel per acre to plant corn, at a cost of about 50 cents. In table 1, Dick Pulse, Tama County Extension Director, compares Podhajsky's direct costs per acre for planting no-till corn with conventional plowing and planting.

In table 2, Pulse compares returns per acre over growing costs for conventional corn production and Podhajsky's no-till operation this year.

Podhajsky said the Ortho Chemical Company warns farmers to expect a 10 to 15 percent yield reduction when planting no-till. But Podhajsky said he hasn't seen much loss in yield.

"I won't claim that you will get the same yield as with conventional tillage, but you'll get as many dollars in your pocket at the end of the year," he said.

Podhajsky says he thinks more farmers will be turning to conservation tillage and no-till as fuel prices continue to rise. He says he's seen more reduced tillage this year in his area, but most farmers still insist on plowing. "Plowing is a tradition that's hard to break," he admits.

Podhajsky's wife, Irene, says she thinks the appearance of the fields is one reason why many farmers are reluctant to farm no-till.

"A plowed field looks so nice and clean. When you look at a no-till field, it just doesn't appear as pretty. Appearance is a big thing," she said.

Her husband agreed. "When you get done planting no-till, you just have to close the gate behind you and don't look back."

For farmers just getting into no-till, he suggests reading books on the subject. One which he found helpful is "No-Tillage Farming," by S.H. Phillips and H.M. Young, Jr.

Podhajsky emphasizes the need to go into no-till farming with an optimistic outlook.

"You've got to have your mind made up that it will work, and you need to keep trying," he said. "I had no one around to help me when I first started, and it took pure determination."

"A lot of others tried no-till, but never came back to it. They'd say that it didn't work the first year. But, you've got to keep trying and learning through experience, or it'll fail."

Although some farmers may still be pessimistic about no-till farming, Podhajsky says he has no doubts.

"The only thing I regret is that I didn't start no-till farming a lot sooner," Podhajsky laughs.

incentive payments offered for conserving soil

Des Moines, Iowa--Landowners may receive cost-sharing funds from soil conservation districts for utilizing conservation tillage or mulch tillage systems.

Soil conservation districts and the Iowa Department of Soil Conservation previously had been restricted to cost-sharing only the construction of permanent soil conservation measures like terraces, sediment control basins, and grassed waterways.

The "Iowa Till" program established in 1979 authorizes the department to use up to 10 percent of its annual cost-share appropriation for one-time incentive payments to landowners practicing minimum or mulch tillage.

Landowners in watersheds nominated by soil conservation districts became eligible for a one-time \$30 per acre incentive payment. In return, landowners agree to maintain at least 55 percent residue cover on the field surface immediately following planting for a five-year period.

Participating landowners must place at least half of their row crop acres within the selected watershed under the Iowa Till program. In addition, all farming operations must be conducted on the contour.

Approximately 14,000 acres in seven soil conservation districts entered "Iowa Till" contracts during the 1980 cropping season. More than 119 landowners are using more than \$400,000 of the \$500,000 available this year. Only slight modifications to the existing program are expected for next year.

The Wind Erosion Control Incentive Program (WECIP) offered an additional \$500,000 to landowners this past spring. Funds derived from the road use tax fund can be used for planting or maintaining wind erosion control practices designed to reduce wind erosion which interferes with road maintenance and safe vehicle operation. Guidelines for the program were developed cooperatively by the Department of Soil Conservation, the Iowa Department of Transportation

(DOT), and the Iowa Conservation Commission.

WECIP assistance is offered to critical road segments identified by the soil conservation district, DOT officials, and city or county engineers. Practices eligible for incentive payments under the WECIP program include grass strips, field windbreaks, and minimum or mulch tillage planting adjacent to designated road segments.

Plantings of grass strips, 50 feet wide and extending at least the length of the area to be protected, receive a one-time \$500 payment for a five-year contract to maintain the practice. Planting field windbreaks of trees and shrubs receives a one-time incentive payment of \$1,000 for a 10-year contract. Incentive payments for mulch or minimum tillage systems provide a one-time payment of \$30 per acre for a five-year contract. All plantings and practices must meet the specifications of the U.S. Soil Conservation Service and the Forestry Section of the Iowa Conservation Commission.

The majority of \$190,000 obligated in 43 contracts with landowners was utilized for mulch and minimum tillage. Five contracts were for grass strips.

Arrangements are now being finalized to make the same program available statewide for the 1981 season when an additional \$500,000 will be available. Program guidelines are being altered to enhance the identification of critical road segments and extend eligibility for participation to all 100 soil conservation districts.

"Iowa Till" and WECIP are only two of several programs available to landowners from federal, state and local government. Nearly \$14.7 million is being made available annually for various forms of cost-share payments and incentives.

Table 1. Corn variable [out of pocket] growing costs per acre.

Item	No-Till	Conventional
Seed	\$14.00	\$14.00
Fertilizer	56.00	56.00
Insecticide	6.90	6.90
Herbicide	24.00	14.00
Planter	1.30	1.30
Chopping	----	1.25
Plowing	----	2.90
Discing twice	----	1.70
Cultivating	----	.95
Field Cultivator	----	.78
Hoeing	----	.50
TOTAL	\$102.20	\$100.28

Table 2. Corn returns per acre over total growing costs. [Reflects all variable and fixed machinery costs, labor, seed, and other costs. Fixed costs spread on 240 tillable acres.]

Item	No-Till	Conventional
Returns	\$148.27	\$113.42
Gallons of fuel	.95	4.73
Hours	.30	1.08
Labor Cost	\$1.50	\$5.40
Machine cost per acre	\$30.58	\$71.53
Machine cost, fixed	\$32.00	\$63.00
Number of operations	2	7
Tractor size, H.P.	85	125
Yield, bu./A	125	125

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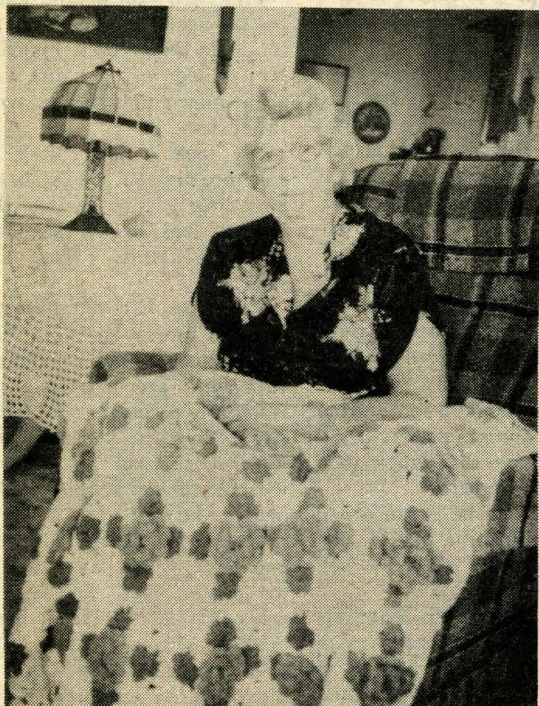
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Cooks Corner

No. 383 of a Series
By Doris Skele

Mrs. Gladys Halsne



Mrs. Gladys Halsne of Blairsburg, holding one of the 16 beautiful afghans she has crocheted the past year.

Would you like to know what happened a year ago today, or what the weather was like? Ask Gladys, Mrs. Milo, Halsne, of Blairsburg. She has it all down in her little book. She daily records the weather, miscellaneous items, interesting events occurring locally or nationally and anything she wants to remember. She can solve arguments by referring to her book for the right date or whatever.

Gladys and Milo are farming

160 acres east of Blairsburg, but are trying to quit. They farm with their son, Larry.

Another son, Arlen lives in LaPorte City and is employed with Hawkeye Sprinkling System in Waterloo. Their daughter, Bethene and her husband, Dr. David M. Player live in San Antonio, Texas. The Halsnes have eleven grandchildren.

Although Gladys is of German and English decent, she married a Norwegian, and he

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made one out of her, too. She loves to cook and most of her cooking is Norwegian, since that is what her family likes the best. She took a course in Norwegian Cookery just for the fun of it.

Every Christmas the four Halsne families get together and have a smorgasbord. Their table is laden with all the different Norwegian foods and enjoyed by around 50 people. They want to keep up the tradition of the Norwegian foods.

Now that Gladys has let up on 4-H and church work, she finds time to do lots of handwork, refinish furniture and do tole painting. She has crocheted and knit sixteen beautiful afghans this past year. Her hands keep busy all the time, making pretty things for herself and her family.

She also loves plants and experimenting with them.

They are members of the United Church of Christ in Blairsburg. They both work with the Historical Society and she belongs to the Stitch and Chatter Neighborhood Club.

Gladys shares two favorite Norwegian foods and two other favorites.

OKLAHOMA COWBELL BEEF BREAD

By Mrs. Gladys Halsne

1 cup ground beef [cooked]
1 cup water
1/3 cup sugar
1 cup raisins
1 T. molasses
2 pkgs. dry granular yeast
1/2 cup warm water

1 cup milk
2 T. shortening
3 tsp. salt
1/2 cup walnuts [chopped]
3 cups whole wheat flour
3 cups all purpose flour

Combine beef, water, sugar, raisins and molasses and bring to a boil. Cool to lukewarm. Soften yeast in 1/2 cup warm water. Scald milk, add shortening and salt; cool to lukewarm. Combine meat mixture, walnuts and milk in a large warm bowl. Mix well. Add 1 cup white flour, beat well. Add yeast, beat. Add 1 1/2 cups of both kinds of flour, a portion at a time. Add enough more of each flour to make a stiff dough. Knead on a floured board for 10 minutes. Place in a greased bowl, cover and let rise until double in bulk. Punch down, let rest 10 minutes. Shape into 2 loaves and place in a greased bread pan. Cover and let rise until almost double in bulk. Bake in 350° oven for 40 minutes. Remove bread from pans and cool on a wire rack.

(CLIP AND SAVE)

CHINESE CHEWS

By Mrs. Gladys Halsne

1 cup flour
2 T. sugar
1/2 cup butter

Mix with fingers and pat into pan 8" x 8" or 9" x 9". Bake 20-25 minutes at 350°.

2 eggs
1 1/2 cups brown sugar
2 T. flour
1/2 cup coconut
1/2 tsp. vanilla
1 cup chopped nuts

Pour over above baked mixture and bake again for 20-25 minutes at 350°. Let cool a bit before cutting into bars.

(CLIP AND SAVE)

KRINGLA

By Mrs. Gladys Halsne

1 3/4 cups sugar
2 sticks oleo
2 cups buttermilk [or 1/2 cup canned milk and 1 1/2 cups buttermilk]
4 1/2 cups flour
1 egg
Dash nutmeg
3 tsp. baking powder
1 1/2 tsp. soda
1 tsp. vanilla
1 tsp. salt

Mix sugar, oleo & egg, beat till creamy. Sift dry ingredients and add alternately with buttermilk. Mix up nite before and refrigerate. Bake in morning. Form in figure 8's. Bake at 425° until just pale. Put out on counter, put a bath towel or dish towel on them while warm. Helps them stay soft.

(CLIP AND SAVE)

LEFSA

By Mrs. Gladys Halsne

8 cups flour [for flat bro'd use 1/2 whole wheat flour]
1 cup shortening [Crisco]
3 cups boiling water
1/2 cup sugar
3 tsp. salt

Add boiling water to sifted ingredients. Knead, cut and roll out very thin. Bake on lefsa grill until lightly browned. [Makes about 16.]

(CLIP AND SAVE)

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what price for crafts?

People who buy quality crafts don't expect to pay cheap prices-or get cheap things. Quality is the name of the game, says Sherilyn Hitch, Extension Home Economist. "People who want to sell crafts need to consider that link between quality and price when deciding what to charge. A fair price is based on total expenses, aesthetic value, reputation and locality," she says.

When totalling expenses, include material costs, plus overhead such as rent and utilities. Also include special handling such as framing, mounting or packaging.

"Paying for their own time is where some craftspersons cheat themselves," says Sherilyn. "They should have a good idea of how much time they spend on production and then figure their labor cost based on a realistic hourly wage."

A price based on expenses and labor then can be adjusted after considering other factors. "Even though two pieces may be similar in size and production cost, one may have more aesthetic value than the other. Make prices reflect that difference," says the home economist.

The reputation of the artist/craftsperson also plays a role. Someone who has been selling a catalog or magazine advertisement in a gallery for a number of years can probably

collect higher prices than someone who is just starting. Another outside factor to consider is the price charged by competitors. "A smart shopper checks both prices and quality," says Sherilyn. If four potters display items of similar quality at a craft fair, the potter who charges 50 percent more than the others probably won't sell as much."

Where the items are sold will also affect the price. Selling directly eliminates handling costs but may add travel or advertising costs.

Some craftspersons sell through a shop which keeps a percentage of the final price for commission. Deciding on an outlet requires careful investigation. The location and decor of the shop as well as its advertising methods will affect total sales.

Successful selling involves more than just price, says Sherilyn. "Sometimes people get caught up in what they want to sell without first thinking about what people want to buy. Producing something for which there is a ready market will yield a better return on the cost of materials and time."

Sales also depend on finding the right audiences. If the item is small or lightweight, it might sell just as well through a catalog or magazine advertisement instead of at a craft number of years can probably

county 4-H members place waste management at Iowa State Fair

Thirteen Hardin County 4-H members earned placings last week in the 4-H communications division at the Iowa State Fair. The communications division included educational presentations, working exhibits, educational exhibits, and "Share the Fun".

Charlotte Smith, Hardin County 4-H and Youth Leader, said that all 4-H members giving educational presentations and working exhibits received certificates of recognition from the Iowa State Fair. 4-H'ers with educational presentations were eligible for an additional seal of merit, and the top award, a seal of excellence.

County 4-H members who gave educational presentations placed as follows: Rachael Cakerice, Eldora, "In The Moo-d For The Udder Drink", merit; Katie Johnson, Union, "Calligraphy - The Art of Beautiful Writing", merit; John Young, Alden, "Food Dehydrator", recognition; and Denise Hudgins, Radcliffe, "How Not To Give A Presentation", excellent.

County entries receiving certificates of recognition in the working exhibits class were: Ann Wood and Deb

Fleener, Union, "Blood Pressure"; and Martha Parris, Eldora, "Block Printing".

Youth who received participation ribbons in "Share the Fun" were: Denise Hudgins, Radcliffe, mime; Beth Haywood, Diane Maas, and Rachael Cakerice, Union, vocal trio; Dawn Jeske, Eldora, vocal solo; Julie Richtsmeier and Julyn Miller, Iowa Falls, vocal duo; Joylyn Cobb, Eldora, trumpet solo.

Charlotte Smith said that youth giving educational presentations and working exhibits were evaluated on their communication effectiveness, enthusiasm, and knowledge of their topic.

Educational exhibits were evaluated on the 4-H member's ability to communicate a process or an idea in display form. "Share the Fun" entries were intended to entertain state fair goers and were not evaluated.

waste management handbook aids planning

Livestock waste management is difficult today in view of increasingly complicated local, state and federal pollution regulations. An incorrect system may end up costing the farmer more than he bargained for when modifications must be made to meet the laws' requirements.

The Midwest Plan Service has published a handbook detailing recommendations and design procedures for livestock waste management. Waste management planning and suitable facility and equipment selection are explained in the **Livestock Waste Facilities Handbook**, MWPS-18.

The handbook discusses agricultural livestock wastes ranging from manure, bedding, feedlot runoff, and milk-house discharge to hair and feathers. Typical waste man-

agement facilities and equipment are also covered, and their function, selection and use are discussed.

Section topics include characteristics of animal wastes, collecting wastes and runoff, flushing gutters, storage, liquid-solid separation, biological treatment, lagoons, and waste transport, utilization and disposal. The 94-page handbook also has a cost-estimating guide, livestock weight data, and climate statistics.

Ag engineers, farmers, farm contractors, vo-ag and engineering instructors, and others interested in livestock waste management may obtain a copy of the **Livestock Waste Facilities Handbook**, MWPS-18, from the Hardin County Extension Office in Eldora. Cost is \$2.50.

market basket report

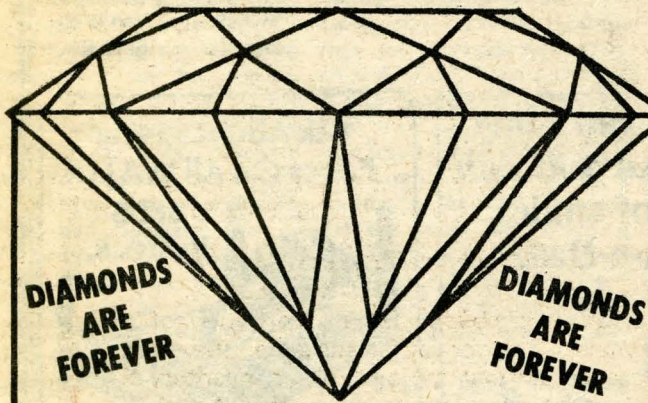
Fewer potatoes, but more potato prices are expected to apples, pork and turkey, rise further this fall. The final That's the forecast for fall crop may also be affected by menus, based on expected drought conditions in Minnesota and North Dakota.

Phyllis Olson, Extension Nutritionist at Iowa State University, says price usually reflects quantity. Thus, the most economical meals are those planned around foods that are in good supply.

The summer potato crop is estimated to be at a record low. The smaller crop has already triggered higher prices-which are starting to pull the potato industry out of its two-year slump. Olson says

In the apple orchards, however, a record crop is expected. Apple supplies should continue to be good throughout the fall months.

Both pork and turkey should be cheaper than beef or chicken this fall. Pork production is expected to be four to six percent above last year's high rates. Cold storage holdings on September for turkey were twenty-five to thirty percent larger than in 1979.



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As I have rented my farm and will be moving to State Center, I will sell the following equipment and cattle at PUBLIC AUCTION located 2 miles north, 1/2 east and 3/4 north of State Center, or 3 3/4 miles south of Clemons [there will be off Highway parking].

Friday, September 19, 1980

TIME - 10:00 A.M.

STOCK COWS

COWS, FEEDING CALVES & BULL - 20 head of top quality, cross bred stock cows, with Charlais cross, all had calves this year and rebred to have calves in Spring - 20 head of feeding calves from above cows, of top quality - good breeding bull, growthy & a good herd sire.

TRACTORS, COMBINE, DUALS, CHAINS - Massey Ferguson 300 Combine with 222 corn head, good shape, has been rebuilt with 13 ft. header - 1967 Massey Ferguson 1100, good rubber, wide front, 3 point, gas, 3500 hrs. - 1965 A C 190 gas, Budy motor, cab, wide front, good rubber, good shape - 1949 Massey 44, gas, with hyd. scoop & 2 way bucket - IHC Farmall C tractor, with IHC 7 ft. mounted mower - 18/4/34 and 16/9/34 rim duals - set of chains for each tractor - front end hanging weights.

EQUIPMENT - Oliver 565, 3 point, 4/16 plow with Midwest harrow - Peterl 52 ft. 7 in. auger with 10 H.P. elec. motor - Hutchinson 33 ft. 5 in. auger with 3 H.P. elec. motor - Brillion 13 ft. Cult a packer - Kewanee 13.8 wheel disc - 16 ft. mounted field cultivator - JD 495A planter with Midwest front harrow, liquid herb side tanks & attach. - A C 4 row stalk cutter - Lilliston 4 row, 3 point cultivator with pulverizer over the row - New Holland PTO No. 511 spreader - JD 3 pt. rotary hoe - JD, model L spreader - 250 gal. fiberglass spray tank - Tumble Bug scraper - bean cleaner - silage elev. with elec. motor - 2, 24 ft. harrows.

HAY EQUIP., FEED EQUIP., WAGONS - New Idea 7 ft., No. 272 Cut/Ditioner - 3 pt. lg. round bale carrier - Gehl 2 row flail chopper - IHC No. 2 blower with pipe - Gehl blower with pipe - IHC 5 bar side rake - Patz 12 to 20 ft. silo unloader, with 5 HP elec. motor - Hanke roller mill - 4 x 10 Kelley Ryan feeder wagon - 8 x 18 Millhouse, 2 in. floors, bins, & OK hammer mill - 100 bu. auger wagon - 16 ft. 4 ft. wide, feed bunk - calf creep feeder - pig creep feeder - 2 lg. round bale feeders - hog ringin chute - PTO Farm Hand silage

FEEDING CALVES

MACHINERY

ANTIQUES

wagon - PTO Gehl silage wagon - New Holland cutter with corn & hay head - Huskey gravity box with 11/L/15 rubber gear - Case gear with barge box & hoist - rubber gear with barge box - metal 8 ft. pickup livestock rack - rubber gear with wood flare box & hoist - Coby gear with skid hay rack.

ANTIQUES - Round Oak heating stove - wood ice box - wood Hexagon 60 bin old hardware bin with rotary top & sq. base & drawers - copper boiler - 20 gal. crock - hand corn planter - sq. oak 5 leg dining room table - 4 leg wood table - high wheel wagon gear - old, upright visible gas pump - 2 dressers - mirror - 2 sets of 4 wood chairs - Wind clock - Ukelin, card table - hand corn sheller with crank - neck yokes - double trees - Iowa cream separator - 2 scoop boards - leather fly nets - drop leaf table - Enterprise 22 in. meat grinder with wheel - 6 oak chairs - treadle sewing machine - 19 x 40 leaded window - walking plow - 12 doz. wood egg case - kerosine lamp - hay fork - wicker clothes basket - .24 Bemus cloth grain sacks.

BUILDINGS, TOOLS, HOUSEHOLD & MISC. ITEMS - 4 pen hog house with 2 in. floor, needs a little repair - 10 x 14 brooder house - 14 ft. 1/2 in. hard steel log chain - 5,000 BTU window air conditioner - dehumidifier - Maytag sq. tub washer - 70 lb. anvil - 3/4 & 1/2 in. socket sets - various wheel pullers - 4 in. bench vise - stand grinder - Propane cutting torch with tanks - Red Line space heater - DeVilbiss air compressor - 20 ft. double beam, steel beams with covers - 30 & 50 ft., 220 ext. cords - extra wheels for all wagons - 3 phase 220 drop cord - garden tractor with plow - post drill - bead breaker - Clipper fanning mill - 2 lg. pipe wrenches - 3 elec. tank heaters - cast Cowboy tank heater - bolt cutters - 3 piece bedroom suite - 3 cushion sofa - 220 window air conditioner - Westinghouse elec. dryer - rocker - elec. ice cream freezer - BW TV - & other household items & 2 racks of tools & misc. farm items - 300 gal. fuel tank & stand.

AUCTIONEERS' NOTE & TERMS: A good quality sale. The cows & calves are extra good quality, the machinery is serviceable. Terms - Cash day of sale. Nothing removed till settled for. Not responsible for accidents or theft.

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turn overripe into dried

Ames, Iowa--Using soft, overripe fruit is listed among the "don'ts" in most food preservation manuals and, unfortunately, some fruit ripens faster than expected. One way to use such fruit is by drying it for "fruit leather", says Phyllis Olson, Extension Nutritionist at Iowa State University.

"The soft texture of overripe fruit is unsatisfactory for canning or freezing," says Olson, "but it will not be noticeable when the fruit is cooked and dried for leather."

Pureed fruit is used in making fruit leather. Usually the fruit is cooked first and then put through a food mill or colander to remove any seeds or peels. Apples, peaches and pears are the easiest fruits to use.

If desired, the fruit can be flavored with lemon and cinnamon. For each quart of fruit, add one tablespoon lemon juice and one-fourth teaspoon cinnamon. Other flavorings which may be used include orange juice, vanilla extract, almond extract, mint and pumpkin pie spice.

"It is not necessary to add sugar," says Olson. "The drying process concentrates the natural sweetness of the fruit."

To dry the fruit, line a baking sheet or drying tray with plastic kitchen wrap. Dried fruit tends to stick to waxed paper and aluminum foil, so they should not be used.

Spread about two cups of pureed fruit over a 10- to

15-inch area. Tilt the pan so that the fruit spreads evenly. It should be no more than one-fourth inch deep. Otherwise it may become brittle on the edges while the center is still sticky. If desired, the fruit may be sprinkled with finely chopped nuts or coconut.

Fruit leather dries best when a constant temperature of about 140 Fahrenheit is maintained. An oven thermometer can be used to monitor the temperature. Fruit leather can be dried in the oven, but it usually takes longer than the six to eight hours required in a dehydrator. If using the oven, the trays should be rearranged during the drying. Leaving the oven door open slightly and using a fan directed toward the back of the oven will speed up the drying, says Olson.

Fruit leather is ready to

remove when it can be easily peeled away from the plastic lining. It should be slightly sticky. If it is too moist or sticky, however, it needs to be dried longer so that it will not mold during storage.

Fruit leather is usually stored by rolling up loosely and wrapping in moisture-vaporproof wrap. If desired, the leather can be dusted with powdered sugar or cornstarch before it is rolled.

Usually fruit leather is simply cut into pieces for serving. If desired, it may be unrolled and spread with cream cheese, then re-rolled and cut into one-half to 1-inch pieces. Peanut butter, cheese spreads and melted chocolate can also be used as fillings.

Fruit leather should be stored in airtight containers. It may be refrigerated or frozen for long-term storage.

examine coat before buying

When winter sets in, having a coat in need of repairs can be a hassle. Jan Stone, Extension Textiles and Clothing Specialist at Iowa State University, says one way to prevent that is to check the durability of fastenings before buying a winter coat.

A quality coat has buttons sewn on securely--and a few extras sewn on the inside in case you lose one. Coat buttons can be impossible to match. And, replacing all the buttons can get expensive.

If the coat has snaps, be sure they grip the fabric tightly. Test how they work a couple times. Look for snaps

that pull apart without putting too much stress on the coat fabric.

For coats with zippers, double check to be sure the zipper won't get caught on the coat lining. Also, does the zipper look heavy enough to last as long as the coat?

For most families, a new winter coat is a clothing investment you'll want to last a few years. So, take some time to look over the buttons, snaps and zippers carefully. And, most important, try them out several times to be sure the fastenings will work to your satisfaction.

supplemental Vitamin A for calves

Ames, Iowa--Severe drought in many areas of Iowa and elsewhere in 1980 has left many pastures "bone dry", resulting in a serious shortage of Vitamin A in cattle diets.

This deficiency can be especially critical for calves, says John Herrick, Extension Veterinarian at Iowa State University. Vitamin A is necessary for healthy respiratory and digestive tracts.

During processing this fall, Herrick suggests providing both native and imported calves with supplemental Vitamin A. An injectable form will give immediate availability.

If the feed is supplemented with 20,000 units of Vitamin A per animal per day, the calves' requirements will be met adequately, he said.

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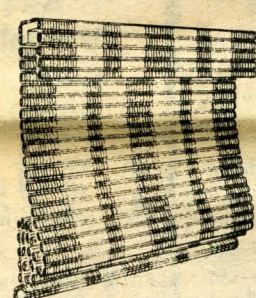
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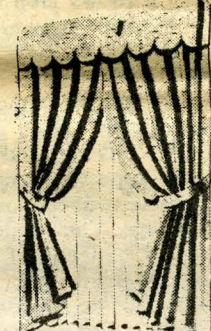


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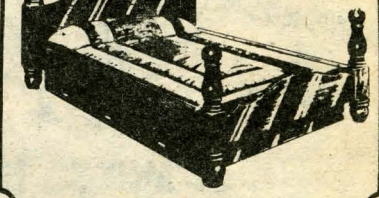


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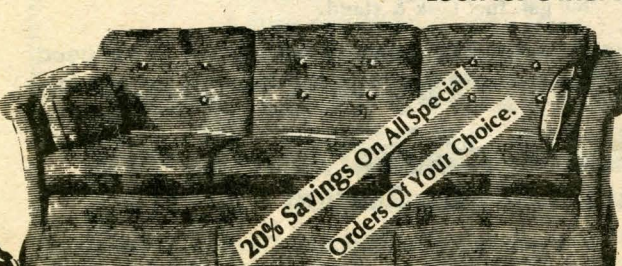
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