

1987
Forty-fifth Annual Report
CASS COUNTY SOIL CONSERVATION DISTRICT
Atlantic, Iowa

1987

1987 Annual Report

- 1 Office
- 2 James Gulliford (Department of Soil Conservation)
- 8 Steve Stover (Soil Conservation Service)
- 1 Senator Jack Hester; Rt. 1, Box 136; Honey Creek, IA 51542
- 1 Senator Charles Grassley, U.S. Senate, 135 Hart Senate Building
Washington, DC 20510
- 1 Senator Tom Harkin, 705 Hart Senate Building, Washington, DC 20510
- 1 Congressman James R. Lightfoot, 1609 Longworth Building, Washington,
DC 20515
- 1 Regional Director: Norman Kading, Casey, IA 50048
- 1 Davis Conservation Library; P.O. Box 776; League City, TX 77573
- 11 SCDs in the following counties: Monona, Crawford, Carroll, Greene,
Harrison, Shelby, Audubon, Guthrie, Pottawattamie (2) Adair

Special News and Advertising Section of The Atlantic Times



ANNUAL REPORT

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The Atlantic Times Tuesday, Feb. 16, 1988 1C

1987 CASS COUNTY SOIL CONSERVATION DISTRICT ANNUAL REPORT



Special News and Advertising Section of The Atlantic Times



Atlantic Times Photo/Gregg Knowles

A BIG ONE. Russell Jordan surveys the large pond forming behind a dam built last summer on property owned by Duane Ocker in Benton Township. The dam provides water control while the entire development will provide wildlife habitat and excellent fishing in future years.

At Troublesome Creek

Watershed project solves flooding and erosion

By **TERESA GLEASON**

As director of the Troublesome Creek Watershed Area, Russell Jordan of rural Wiota knows firsthand how important conservation practices are to the land.

"I became involved with the project because the farm where we now live is close to the creek," Jordan said.

When it rains heavily in the northern section of the area, which encompasses 83,100 acres of land in Audubon, Cass, and Guthrie Counties, Jordan said tremendous flooding problems can occur for farmers who live in the creek's runover area.

Although landowners and renters have been battling the excess water problem on an individual basis for a number of

years, a joint effort was begun in 1972 to help permanently resolve the situation.

According to Bill Willis of the Cass County Soil Conservation Office, the 16-year-old Troublesome Creek Watershed Project calls for the construction of 100 structures throughout the affected area that will function in either gully- or flood-control capacities.

Willis said approximately one-third of these structures have been built thus far, and the most recent one was completed last fall on property owned by Duane Ocker in Section 28 of Benton Township.

Jordan, who farms near the area, said

the project, which cost a little under \$90,000, began last August with the clearing of the land.

Five contractors bid on the project, which was awarded to two area firms: Cummins Construction of Fontanelle and Soper Construction of Adair. The high bid was \$94,703.05, and the low bid was \$87,583.60.

Work on the large dam, which took approximately six weeks to build, was begun in October. The permanent pool, which measures 12.4 acres, is approximately half-full at the present time, and will be stocked with fish later this spring.

Willis said a wildlife development will be installed around the perimeter of the

pond at a later date.

He cautioned that the pond was built on privately-owned land, and permission must be obtained from the owner before any fishing can be done there.

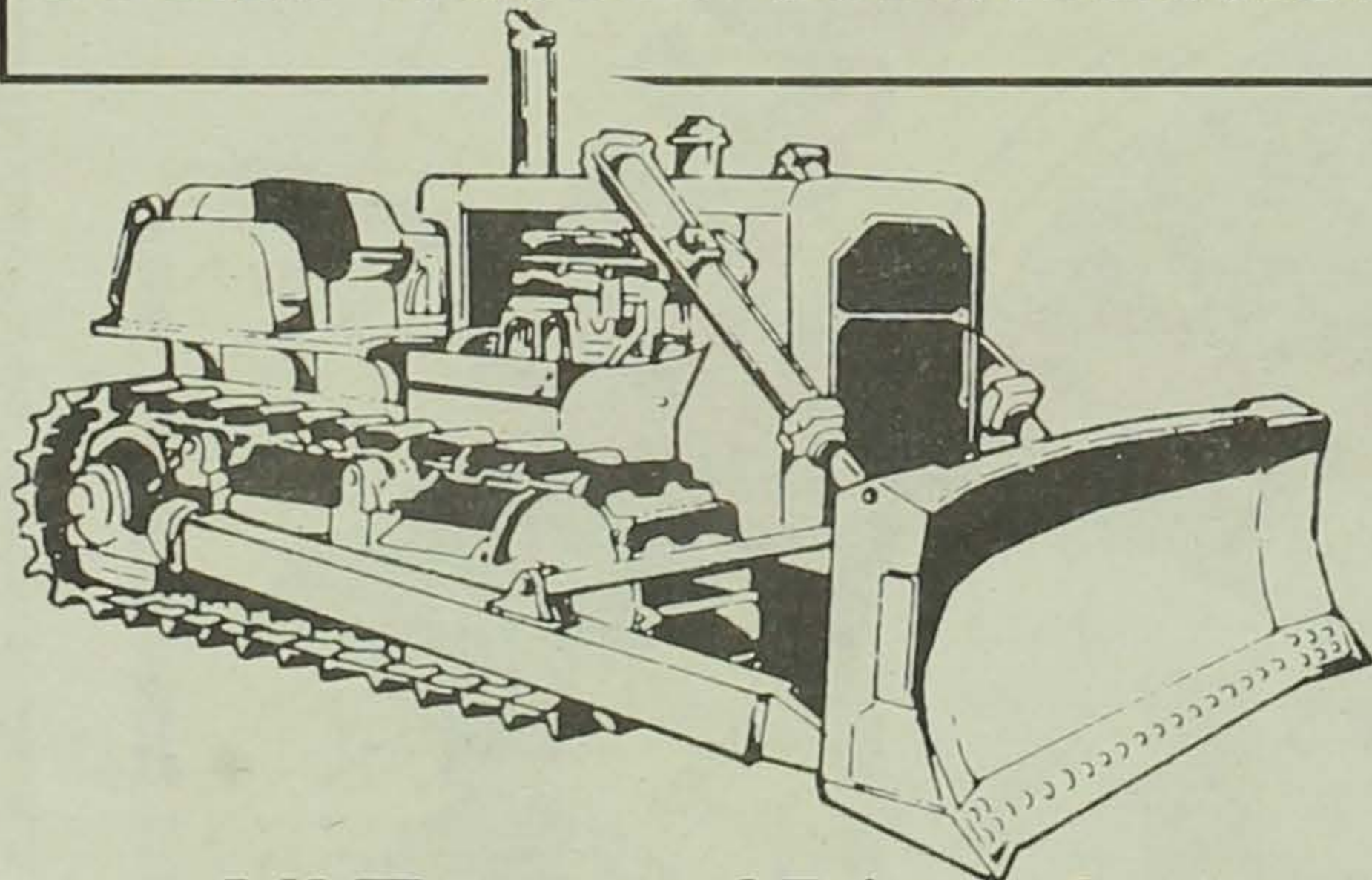
"The structure isn't a public access area," he said.

"It was very interesting to watch the whole construction process," Jordan said.

After the land was cleared, large trenches were dug and filled with rock to control drainage. A total of 48,000 cubic yards of dirt was used in the project.

Jordan said the Troublesome Creek farmers hold meetings once a year, and also host tours of the constructed facilities on occasion.

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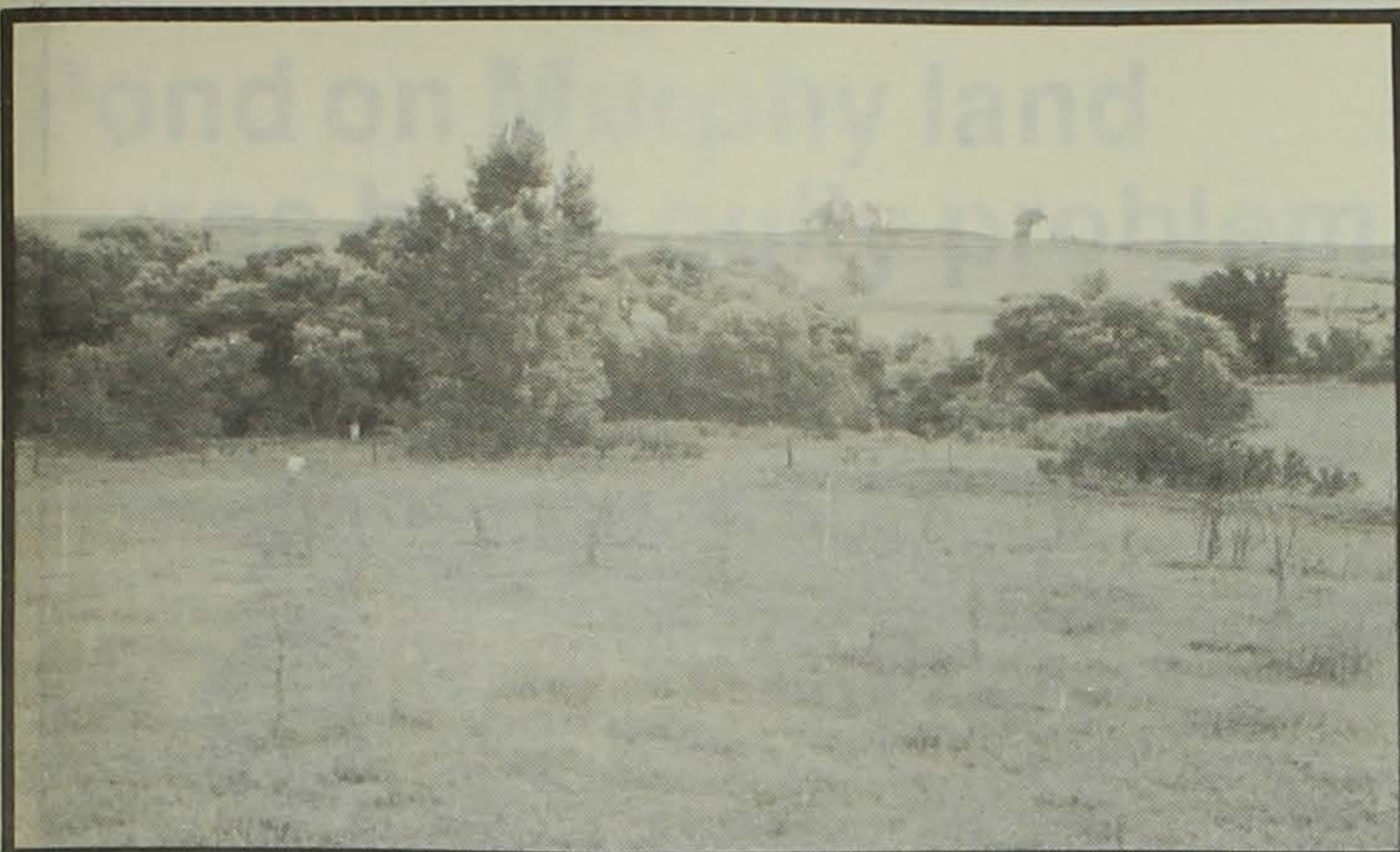
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TROUBLESOME CREEK PROJECT IN PROGRESS. These photos show the Troublesome Creek dam on the Duane Ocker property as it was constructed last year. The top photo shows the site before work; next as it is cleared; then final construction staking by Dick Smetana in foreground and Jimmy Wyble and Lew Brent, all of the Audubon S.C.S. engineering office; installing the foundation drain by Cummins Const. and Soper Const.; and construction of the compacted earth fill.



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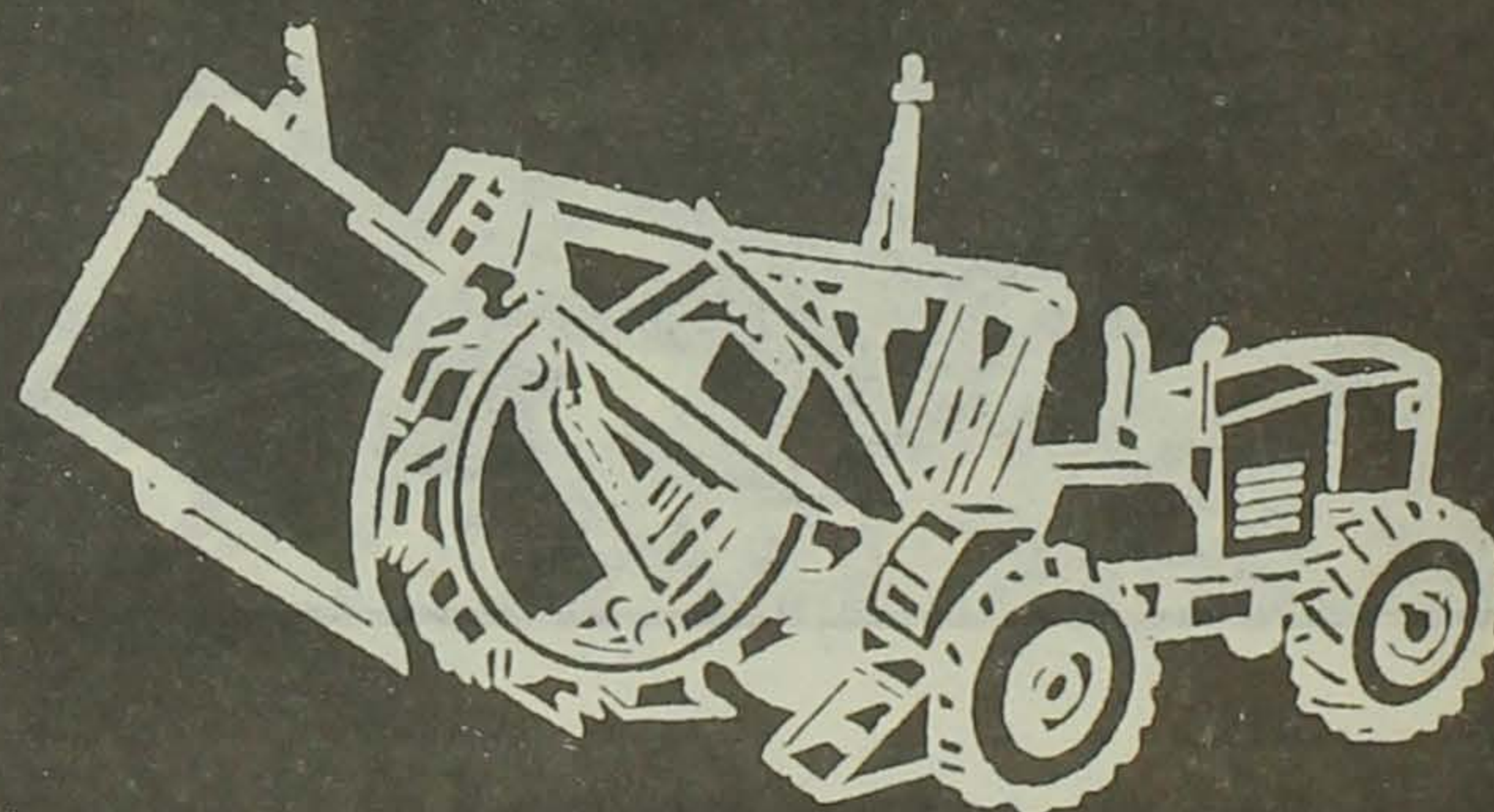
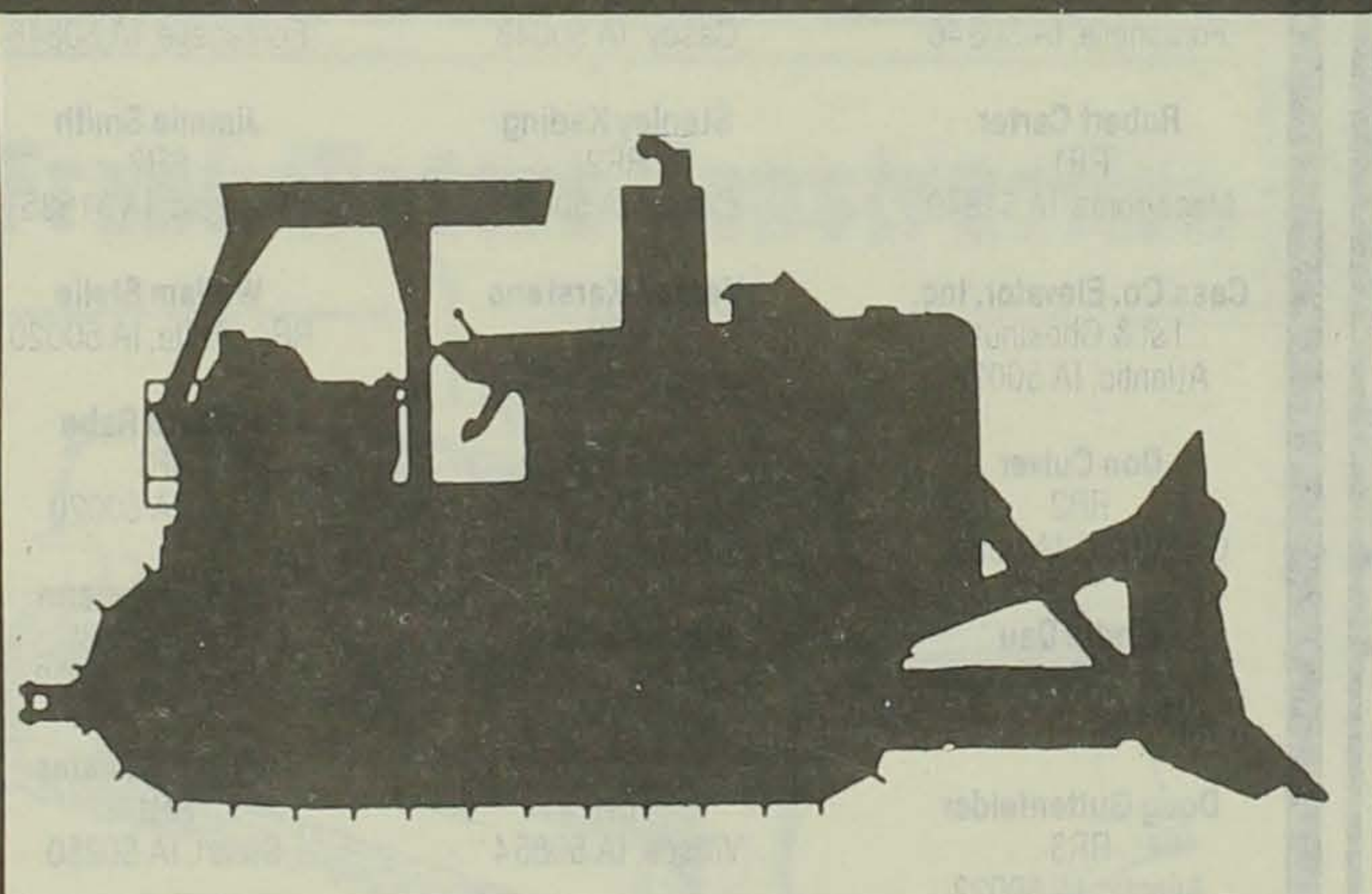
PRETTIER PICTURE. Bill Murphy, whose farm is north of Wiota, checks the filling progress of a new pond created when a dam was built on new ground he bought last year. The dam and pond cured an ugly gully

that had been carved out of the soil. The scar that remains of the gully will soon be grass-covered.

Atlantic Times Photo/Gregg Knowles

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Pond on Murphy land cures huge gully problem

By MARIE SUHR

Bill and Judy Murphy of Anita hope they have found the solution to one very big problem encountered on their farm of 22 years in the form of a new farm pond.

The problem was a huge gully between two hills, measuring about 8 to 10 feet deep and 10 feet wide, which was continually growing with the seasonal rains and the help of Murphy's 100-head cow herd.

The Murphys farm 480 acres of land, and have a cow/calf operation in addition to raising about 500 hogs a year, farrow to finish.

He sells most of his calves as feeders, but does feed a few out.

Murphy said his main crops are corn and hay. He has 180 acres of pasture and about 100 acres of row crops.

He said he feeds all of the grain he raises, and it takes about two acres of pasture for each cow/calf pair per season.

The couple said that 80 acres of their farm has had some terraces built on it, but most are old and need to be redone.

They have always farmed on the contour to control erosion, farming the top and bottoms of the hills, and keeping the middles seeded down.

Each spring, Murphy sprays his pastures for thistles and fertilizes to get the optimum use of them.

Conservation has been a part of their farming operation since the start, so it's no surprise they decided to make something useful out of the gully as well as stop the erosion.

The Soil Conservation Service laid out

the one-half acre pond for the Murphys.

The 15- to 18-foot-deep pond will be completely filled by runoff water collected from above and will provide a watering place for the cows.

In order to prevent the cows from damaging the pond, it will be fenced in completely, and they will drink from a watering system built into the pool.

A pipe was installed on the back side of the pond, under the dam, allowing water to flow through and empty into a tank below, thus eliminating the need for the cows to access the pond itself.

Approximately 15 acres of land which lays above the pond will drain into it, Murphy said. "In a normal spring, with normal rains, it should not take long to fill."

Natural waterways were built above and below the pond after filling the ditch and seeding it down.

Murphy is confident that the pond will be an asset to him and his cow/calf operation.

At any rate, he is no longer plagued by the huge ravine eating away at his farm.

Bill and Judy (Kessler) Murphy were both born and raised in the Wiota area, and graduated from Wiota High School.

After serving two years in the armed forces, Murphy returned to farming in 1960.

The couple has four children: Paulette, Dianne, Karla, and Doug.



CLASSIC WINDBREAK. Dennis and Sue Schwanke stand in the windbreak that was planted about ten years ago on their farm northwest of Atlantic. About 200 Austrian pine, blue spruce, and honeysuckle plants are already stopping the wind and holding the soil. It also provides heat savings for their home.

Schwankes' windbreak stops wind, soil losses

Eleven years ago, Dennis Schwanke planted 210 trees in a windbreak on the 120-acre homestead where he has lived most of his life.

An old windbreak had been in place for many years, and was deteriorating because of age. The livestock had also rubbed the bark off of some of the trees, and they were dying.

At that time, he was milking 40-45 cows, and he felt he needed the trees to hold back the snow, cut exposure to the animals, keep the lots cleaner, and of course, cut heating costs in the house, he said.

The trees were bought with the help of Soil Conservation Service funding, and were planted by Schwanke and his wife with the help of their son, Jon, and

neighbors Barb and Dave Peterson and Martin Grandquist.

Schwanke said the trees are planted in four rows, each 16 feet apart, covering approximately one and one-half acres.

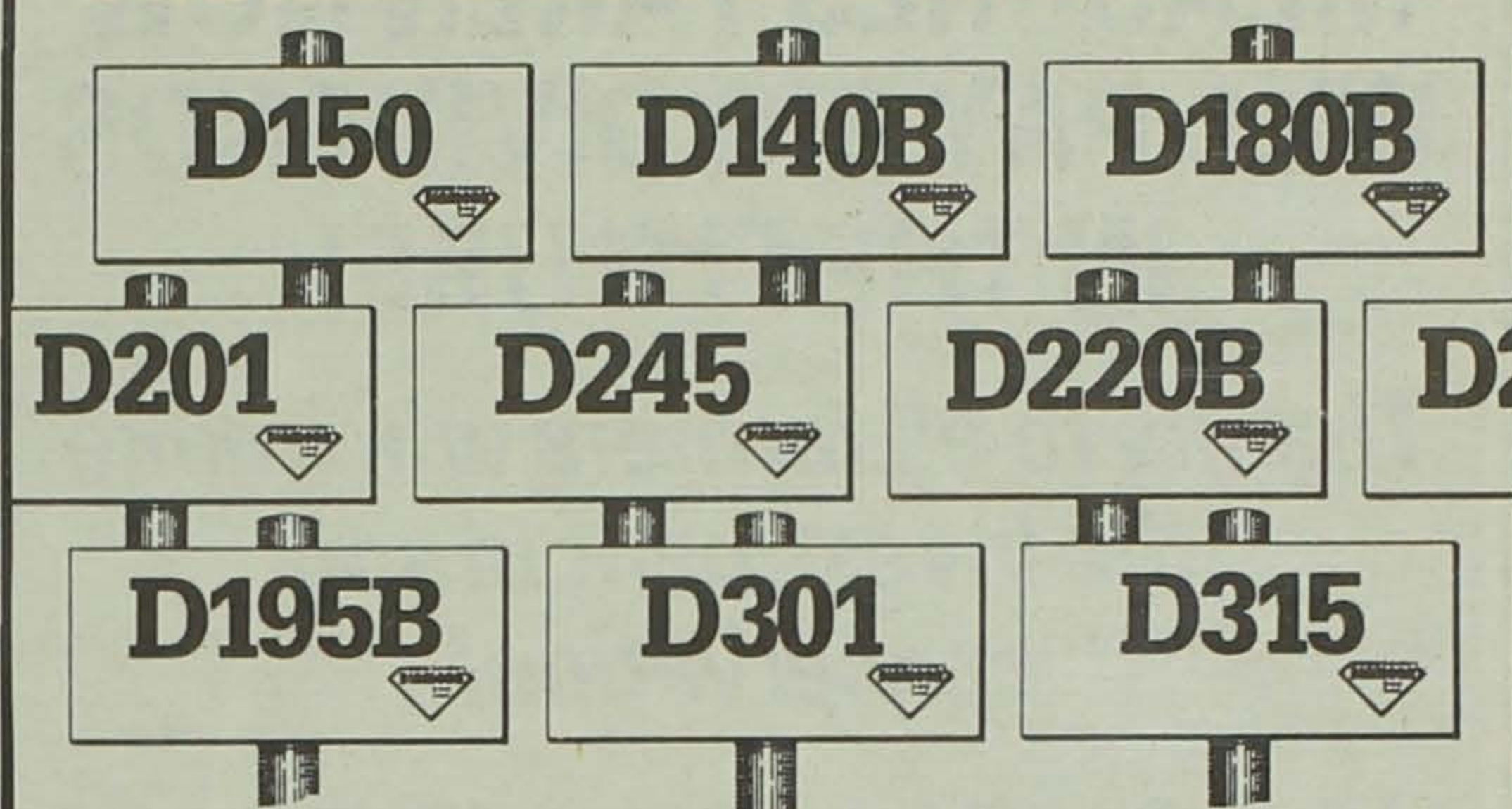
The windbreak consists of honeysuckle, Austrian pine, Norway, and Colorado blue spruce trees.

Schwanke and wife, Sue, farm about 440 acres, feed beef cattle, raise approximately 300 head of hogs per year through their farrow to finish operation, and own part-interest in a stock cow herd.

He said the other conservation practices on his farmstead include two ponds and grass waterways.

The Schwankes have two children: Jon, 14, and Jill, 11.

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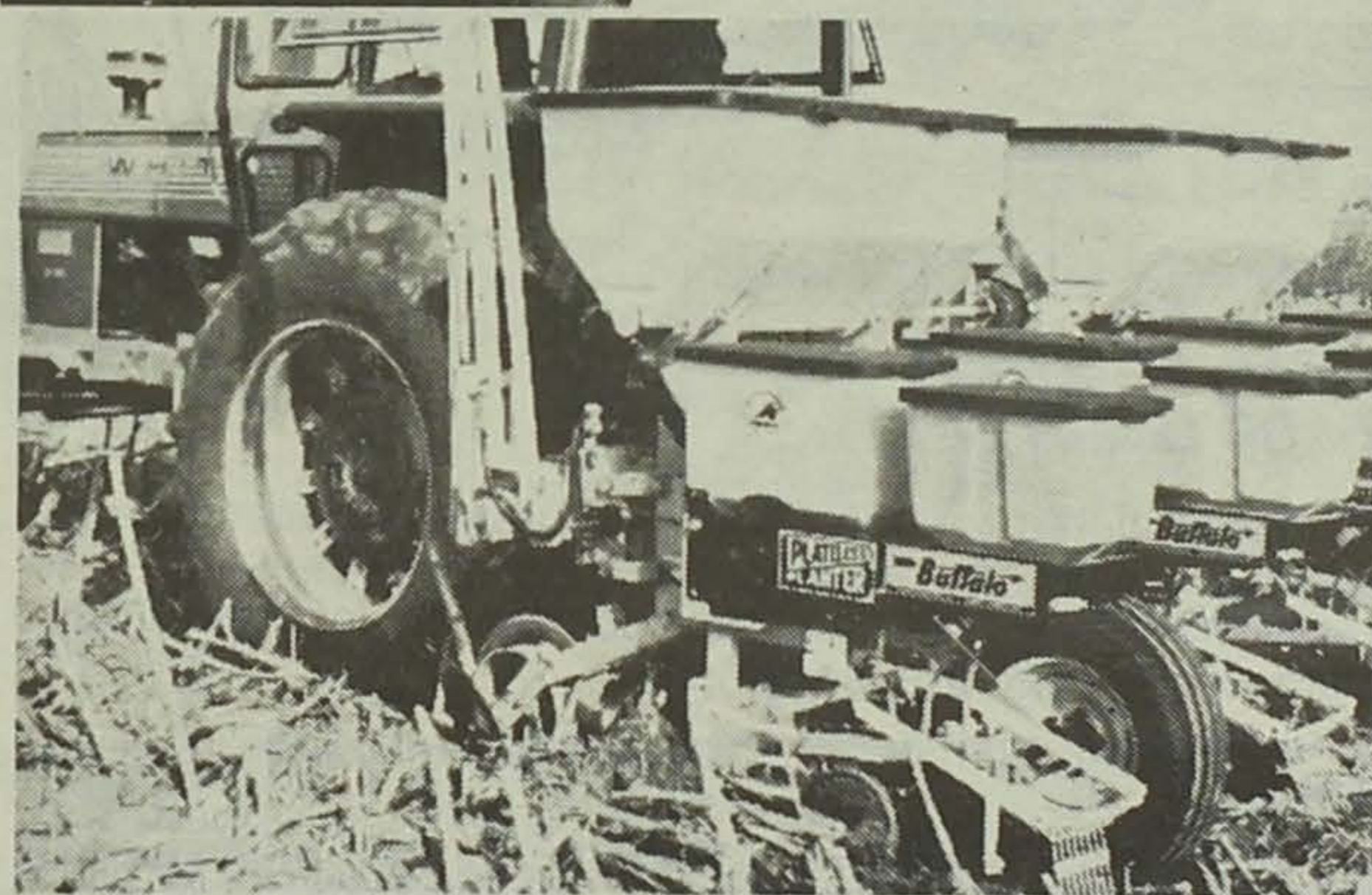
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Frisbee practices no-till, terracing to conserve soil

By TERESA GLEASON

Jim Frisbee of rural Atlantic believes in soil and water conservation, and practices what he preaches.

"I got my ideas on conservation from reading and watching what's going on around me. What you do on your farm concerns your neighbors also," he said.

For the past five years, Frisbee, who has been farming for 15 years, has used the no-till method of soil conservation on all his bean ground.

Conservation tillage, which is compatible with virtually all other crop-land conservation practices, generally cuts soil erosion by more than half that of traditional tillage systems. The soil loss reduction with this practice relates directly to the amount of residues left on the soil surface.

The more residue that is left on the soil, and the more evenly distributed it is, the better the soil protection.

According to Soil Conservation Service officials, no-till or slot-till farming gives the best control because it disturbs only a thin slice of ground to plant the seed.

"With no-till, you go out and plant without field cultivating the ground at all," Frisbee said.

Soil that is not tilled is much harder, and Frisbee said weed problems can occur if chemicals aren't used to control them. He began no-tilling his bean ground because of the annual high soil loss rate that occurs there.

"The soil loss in bean ground is very high, because the bean plants make the ground a lot looser and they don't have the fiber to hold down the soil. There just isn't much plant there compared to a corn plant," he said.

Since he began five years ago, the ru-

ral Atlantic native said the practice of no-tilling has become more popular with farmers in general.

"I would probably no-till more ground if we weren't as concerned about our water quality and the higher level of chemicals we have to use," he said.

In addition to this practice, Frisbee strip-crops sections of his land.

Planting alternating strips of row-crop, small grain, and meadow on the contour can cut soil loss to one-fourth that of uphill and downhill farming. The practice is a good choice in farming operations where small grains, such as hay, can be used on the farm.

"Strip farming can't stop the water, but it can stop the soil on a hill. After a heavy rain, the first 100 feet of a hay strip will catch an awful lot of soil," Frisbee said.

"I do a little of it now, and will do more of it in the future," he added.

He also began terracing the land he farms last year.

The conservation-conscious farmer predicts an interesting future for individuals involved in agriculture as far as soil and water conservation practices are concerned.

"It will be really interesting to see what happens in the next 10 years. Perhaps the only answer is to go back in time when we didn't farm our ground so hard. We've overproduced so much," he said.

In order for this answer to be successful, however, the majority of farmers would have to agree to cut back and slow down.

"You'd need everyone to go with you - you couldn't agree to cut back by yourself and survive," he said.



Atlantic Times Photo/Gregg Knowles

Jim Frisbee stands near an old scraper/patrol, once owned by the county, that is now used on his farm to maintain lanes. The machine is probably 50 years old and is pulled with a tractor.

Cass County to host series of soil survey update meetings

A series of Cass County soil survey update meetings will begin on Monday, March 7 at 9:30 a.m. at the 4-H Community Building in Atlantic.

According to Dan Merrick, Cass County Extension director, the purpose of the upcoming meetings is to provide a supplement to the soil survey completed in the late 1950s and early 1960s, as additional information has been gathered since the original survey was made.

(The original report identified the various soils in Cass County, the soil characteristics, slope, degree of erosion, permeability, and classified the soils according to productivity.)

At the time the soil survey was published, corn suitability ratings were not given. Corn suitability ratings provide a relative ranking of all soils mapped in the county based on their potential to be utilized for intensive crop production. It

is an index which can be used to rate the soil's potential yield production against another soil over a period of time.

The corn suitability ratings can be useful to farmers, land buyers, assessors, and others as an aid in determining suitable land use and land value.

Specialists from Iowa State University will be reviewing how to use the soil survey as a means of complying with the recently announced Food and Security Act, how the survey can be used in planning for herbicides and fertilizer, and establishing realistic yield goals.

Additional copies of the soil survey have been secured and will be distributed at the meetings, which are open to the public. Those with questions should contact the Cass County Extension Office, 243-1132.

The dates of the additional meetings will be announced at a later time.



Atlantic Times Photo/Gregg Knowles

TERRACE SERIES. Jim Frisbee stands near the outlet drain on a large new terrace built on his farm last year, one of several constructed

to control runoff. Frisbee farms a few miles northeast of Atlantic and practices no-till and strip farming as well on his ground.

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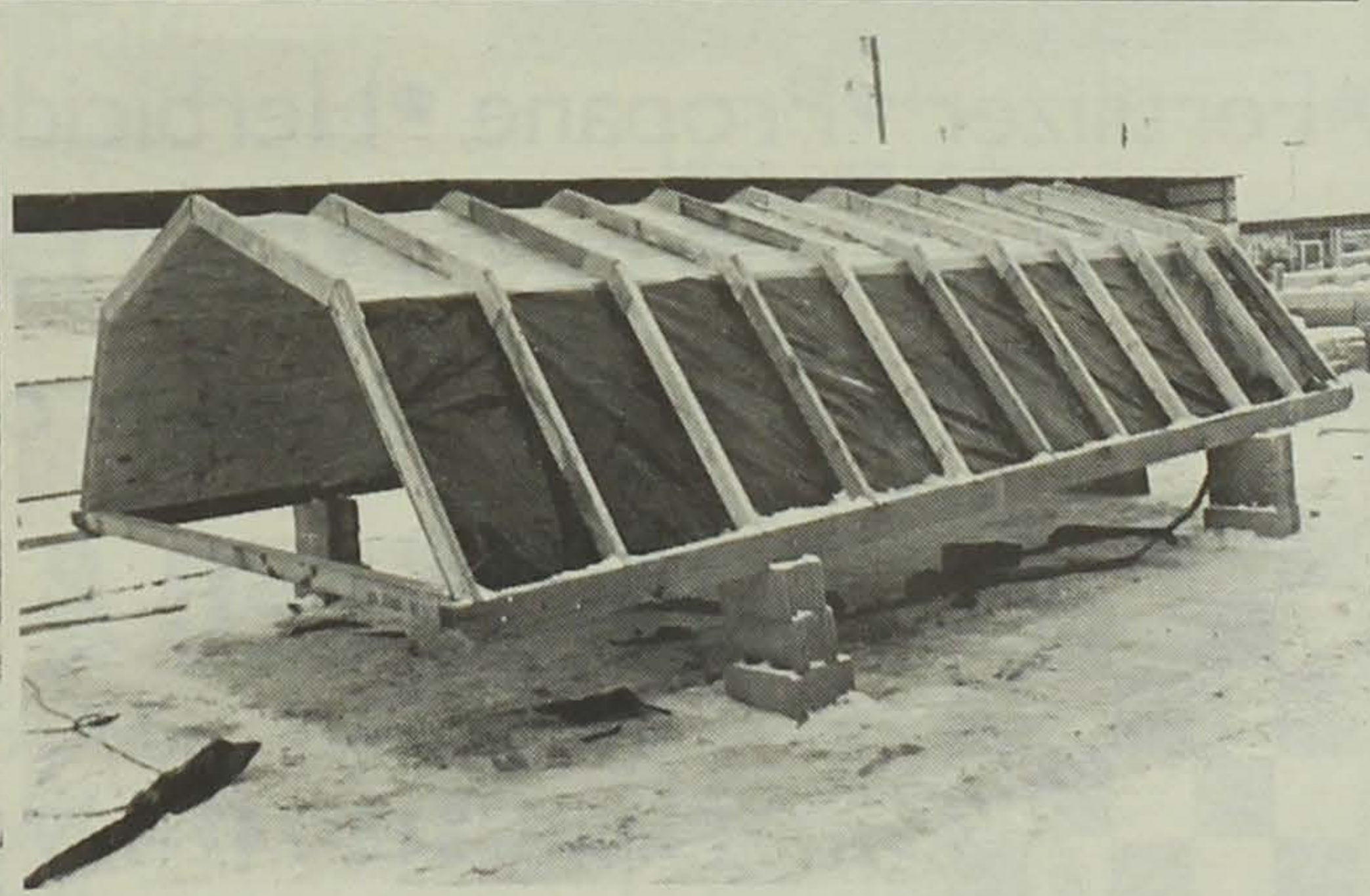
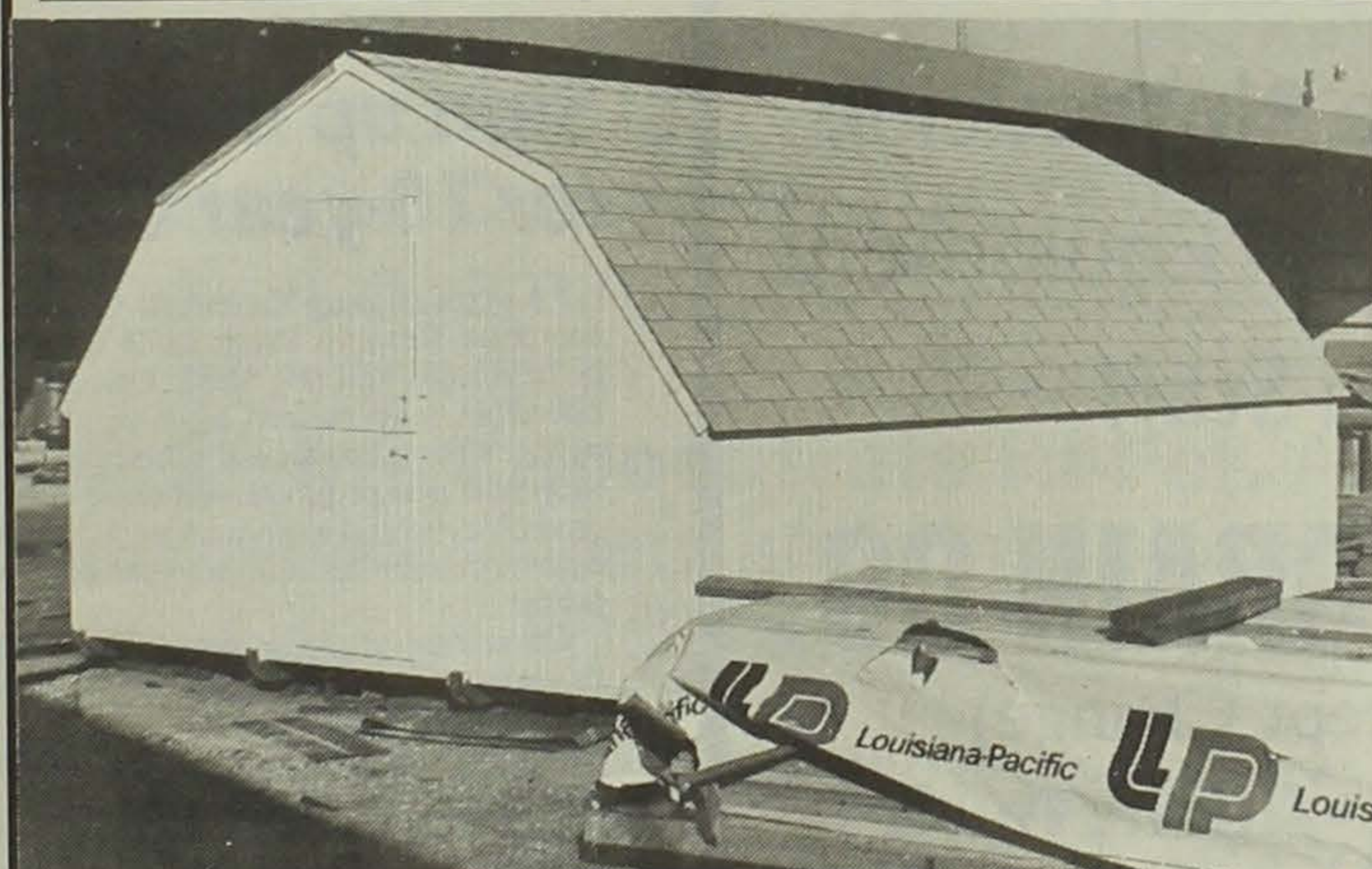
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A GOOD INVESTMENT. Jim Smith (pictured above) of rural Griswold believes in terracing, as the practice helps preserve valuable topsoil as well as fertilizers and herbicides.

Griswold farmer believes terraces are a good investment

By MARIE SUHR

Jim and Joy Smith's home sits atop a small knoll four miles south of Griswold. The price paid for the beautiful view is a farm comprised of marshall soil and terraces to keep it there.

The couple moved to Jim's parent's home just last year. It overlooks miles and miles of countryside and terraces below, which seem to belt the hill as if to keep it in place.

Smith, who farms 800 acres of land in Cass and Montgomery Counties owned by three landlords, has been at it since 1969.

He follows a corn/soybean rotation, and no longer has livestock.

He has been farming the 200-acre home place for seven years, but only recently moved there when his parents retired.

Fifteen years ago, his dad started with the two terraces west of the house.

Eight years ago, they had to be rebuilt due to excessive rainfall and were thus

converted to the new style.

Ever since then, Smith has been adding more terraces to the land, and he said his goal - to do the whole farm - will take about two more years to accomplish.

He said he has really been impressed with the Cass County SCS. "They're nice guys to work with. They can visualize what we need to stop the washing, and then do it."

Smith said, "Last year, we had a five-inch rain at one time, and even though the seeding on the new terraces was not established, we did not lose any of the terraces."

He estimated that 5 1/2 acres of terracing land is taking care of 140 acres of farm ground.

He said, "There is no doubt in my mind of the benefits. Good investments are hard to find, but terraces are one of the good investments to me. When you lose topsoil, you lose your fertilizers and herbicides too. Topsoil on hillside farms is hard to come by, and takes many years to get back."

Smith believes a person can get used to farming around terraces. "It's just something they have to do if we're going to keep farming."

He said, "Maybe people don't think farmers are concerned about the ground water program, but we are. Terracing doesn't stop the problem, but it greatly improves conditions."

Terraces require periodic maintenance and repair, and their average life is about 10 years, he said.

There are federal and state programs available to help with the cost of terracing.

Smith said one of his Montgomery County farms has some old terraces which 25 years ago cost about \$500 to build and took care of 120 acres. He added, "The same terraces today would cost \$7,500, but you can't put on a price on water quality and topsoil."

He figures he has another 15 years or so to farm and has seen enough land deterioration around the area.

He pointed out that, "It costs the same money to farm a good acre as it does to farm a poor one, and the good one will yield a much better return."

Jim and his wife, Mary (Joy) Hallett, formerly of Chicago, met while both were employed by Western Electric in Omaha for 10 years before returning to the farm.

The couple has three children: Brian, a U.S. Marine in Okinawa; Diane, student at the University of Northern Iowa; and Carol, a junior at Griswold High School.

He said Joy does everything except plant and combine to help him with the farming - that's probably why she earned the kitchen-remodeling job currently underway in their home.

Sign up now for 10-year CRP

*A sixth sign-up for the 10-year Conservation Reserve Program (CRP) will be held until Feb. 19, 1988. Owners and operators may submit bids during this period stating the annual rental payment they will accept to convert their highly erodible cropland to permanent vegetative cover of trees for the 10-year contract period.

Cost-share is available for the establishment of the cover and/or trees. There can be no haying, grazing, or crop removal on these acres during the contract period.

Erodibility criteria has been broadened to encourage tree planting. Filter strips next to streams gullies, and ponds may be eligible for the CRP regardless of whether they are highly erodible or not, if all other eligibility requirements are met. Contact the office for details. There will be no bonus payments for land bid into the program during this sign-up.

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Avoid straight-row farming to protect soil

(The following article was written by William A. Fudge, district commissioner of the Cass County Soil Conservation District.)

Ever since I was a boy, saving soil has been a problem for some farmers and still is.

When I was small, all corn was planted with a planter that used wire with battons to make the planter drop the kernels of corn in a certain place so the corn could be cultivated both ways for weed control.

As time wore on, the machinery manufactured was bigger and more rigid. Then tractors came into the picture and it seemed every new model was bigger and more powerful.

Of course this gave a man more range to do more and farm more, but this did very little for erosion control. In fact, it made it worse, as the soil could be stirred faster and deeper. Not only did they stir it deeper, but land was broken from old grass land and the conservation was not followed. Straight rows should be a thing of the past on land that is over four percent, but this is not the case.

The bill the county pays per year is

staggering for cleaning road ditches. The strange thing is it's the same ditches time after time following three or four heavy rains. As a rule, all one has to do is look where this silt came from.

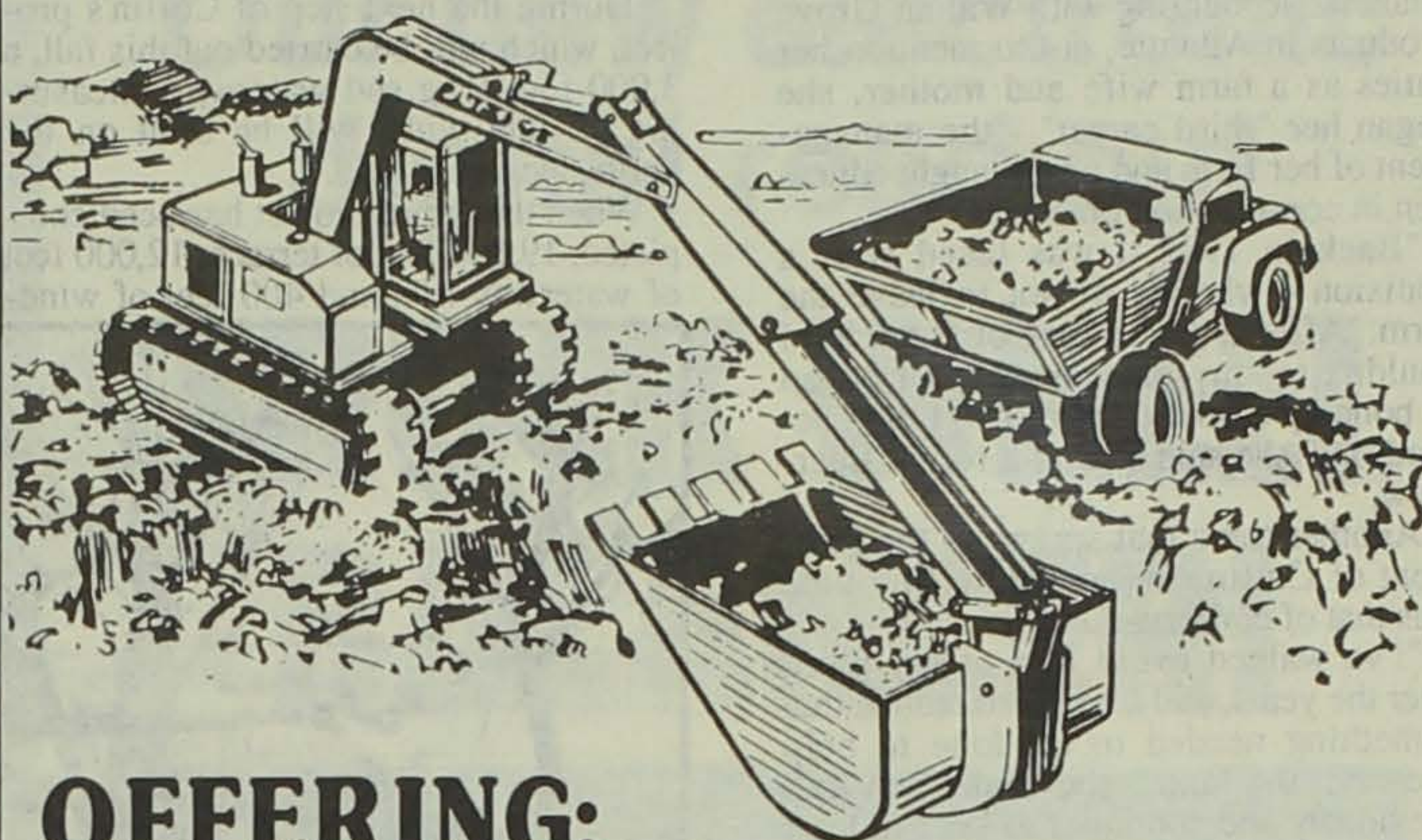
The same problem exists that has plagued soil conservation for 100 years. People can't get out of the idea of straight rows. Agricultural colleges have demonstrated that contouring and terraces will save the soil and produce as much or maybe more depending on how much of the top soil has been washed away.

There's plenty of help for you that need help to plan your farm for saving the soil, such as terraces, no till, ridge till, or just plain strip farming. There are so many ways to save the top soil, and something has to be done soon or some of the bad fields will need lots of work or future generations won't have much to look forward to for production.

For those of you who need help, stop at the soil and water office at Sunnyside Lane in Atlantic. The district commissioner and technical and office staff are always willing to help or make an appointment for someone to help plan what is best for your farm. Every farm is different, so see about a plan for yours now.

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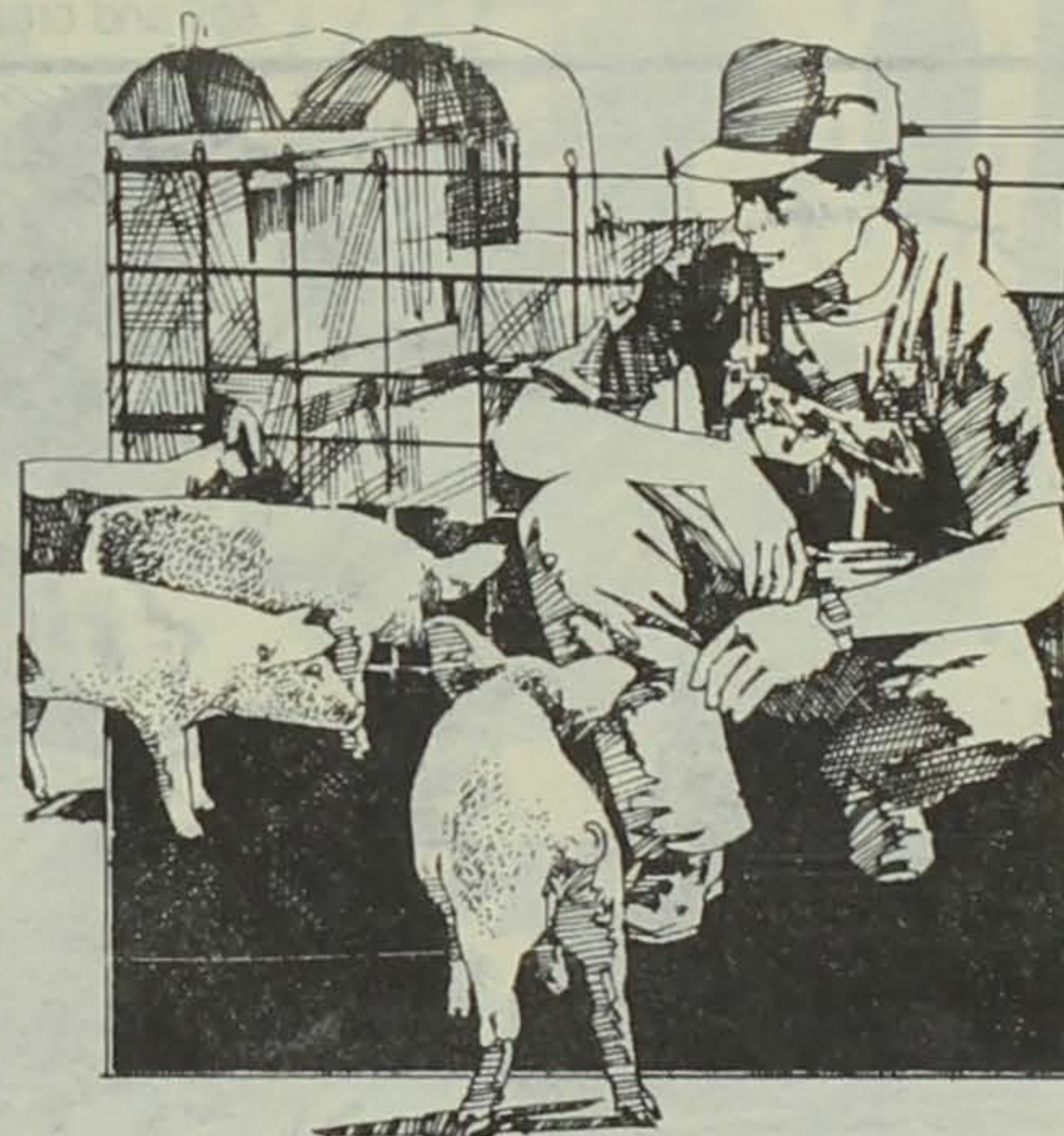
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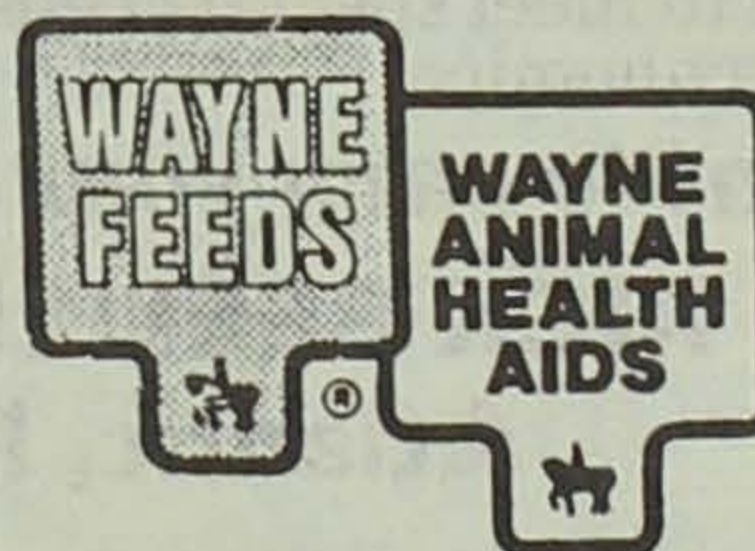
■ **Swine Concentrate Hi-Fat.** A 45% protein equivalent amino acid-based concentrate 10% fat.



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Big conservation project converting Coffin farm

By TERESA GLEASON

When Florence Coffin of rural Cumberland was a girl, she milked cows, fed chickens, and tended hogs and sometimes sheep.

After an 18-year career as secretary of financial accounting with Walnut Grove Products in Atlantic, not to mention her duties as a farm wife and mother, she began her "third career" - the management of her farm and a self-taught education in conservation practices.

"Back in 1982, I was faced with a decision - whether or not to leave the farm. After a good deal of thought, I couldn't see myself leaving, so I began to bone up on the things I had fallen behind on," she said during a recent interview.

Another topic that sprang to the forefront of Coffin's mind during this time was that of conservation.

"I've walked every foot of my place over the years, and I began to realize that something needed to be done to help preserve the land," she said. (She had previously and continues to keep at least 10 percent of her cropland in alfalfa or clover.)

As soon as she had set her mind to this notion, she phoned the Cass County Soil Conservation Service and set the conservation-practice wheels in motion.

The local crew then proceeded to work with Coffin in developing a thorough conservation plan for her property.

The actual implementation of this plan, which will take three to four years to complete, began last fall with the construction of 4,500 feet of narrow base terrace on the back side of her acres.

According to SCS officials, terraces reduce soil erosion by breaking long slopes into a series of shorter slopes. On shorter slopes, water doesn't build up as much speed, and therefore has less power to tear soil particles away.

Each of the three basic types of terraces (broadbase, grassed backslope, and narrow base) are designed to hold the water runoff from a 10-year frequency rain. Thus, they should not overtop more

than once every 10 years.

The cost of the narrow base terrace is much less than other types. With both sides of this type in grass, however, some land is taken out of production and maintenance may be more difficult.

During the next step of Coffin's project, which will be carried out this fall, a 3,000-foot-long sod waterway, measuring 50 feet wide, will be built on the north side of her land.

When the entire project has been completed, 19,000 feet of terrace, 12,000 feet of waterway tile, and 400 feet of wind-

break, including 250 feet on the north side and 150 feet on the west side, will have been constructed.

In addition, 22 acres will have been set aside for songbird and wildlife refuge.

Once the conservation plan is firmly underway, the busy Coffin said she'd like to take down her old barn and renovate the existing buildings.

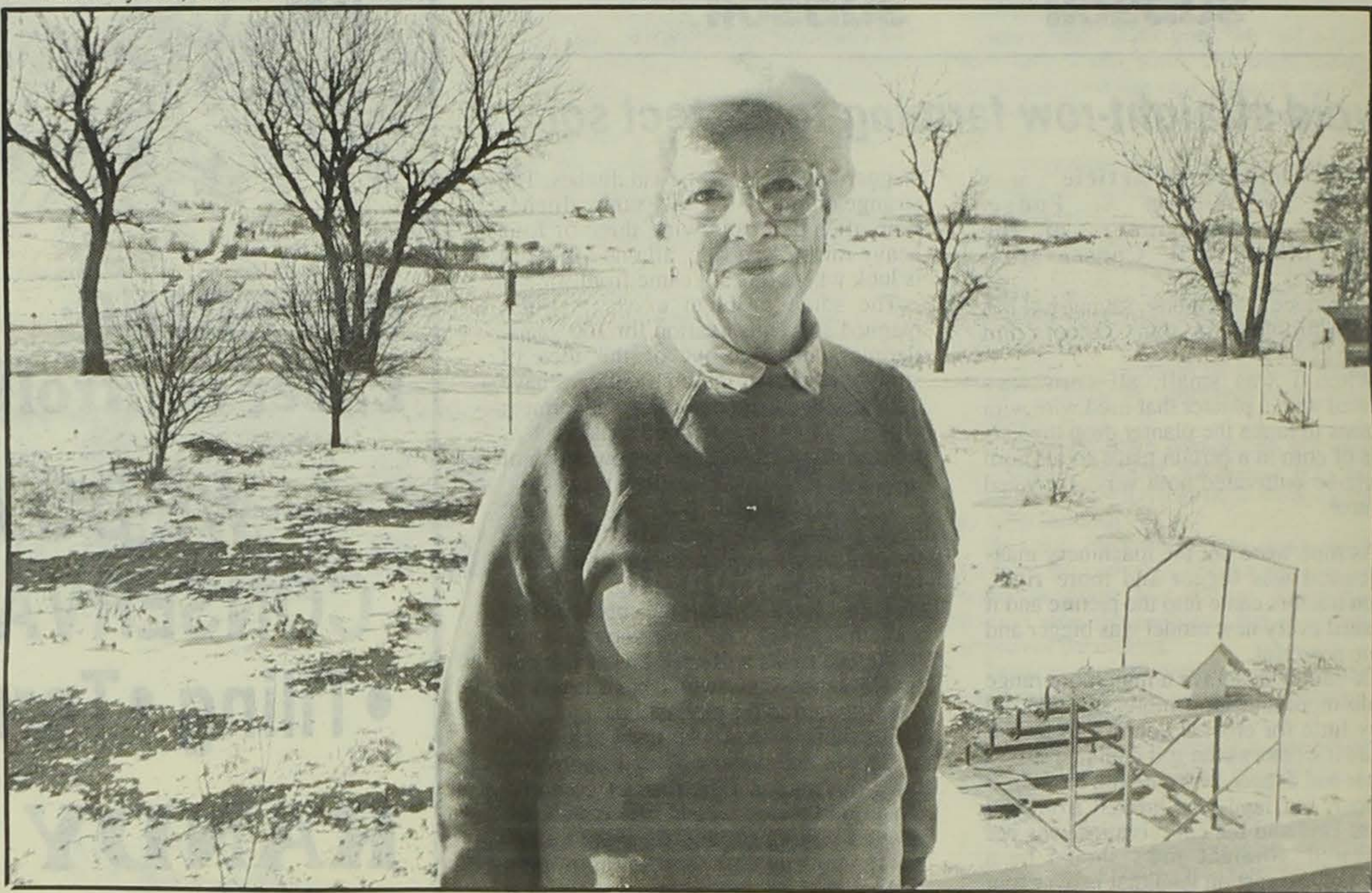
The instigation of such extensive projects at this point in Coffin's life has raised a few eyebrows from local folk,

but she doesn't seem to mind.

"I just decided, 'why not go for it?' I'll take my project as far as I can, because someone else will enjoy it if I don't," she said.

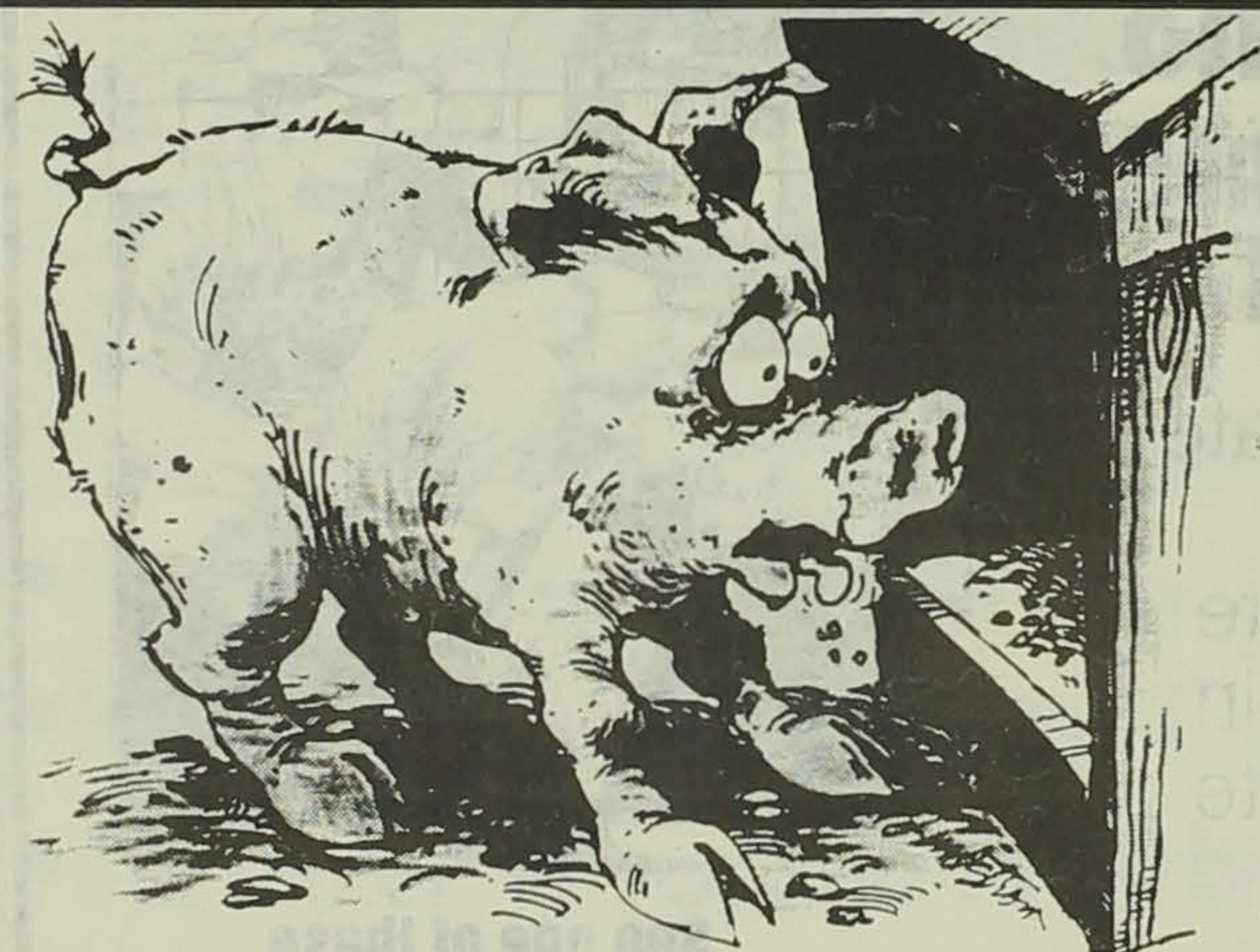
"We have so much in this world, but if we don't take care of the essentials - air, potable water, and food - we'll be in real trouble," she added.

The conservation enthusiast said she has really enjoyed monitoring the progress of the plan thus far, and can hardly wait to get it finished.



Atlantic Times Photo/Gregg Knowles

Florence Coffin stands on the porch of her home, from where she can look over a picturesque section of her farm northwest of Cumberland. New terraces, waterways, and windbreaks are being built on the farm to help conserve soil and create wildlife habitat. The pond in the upper left is not on her property, but adjoins it.



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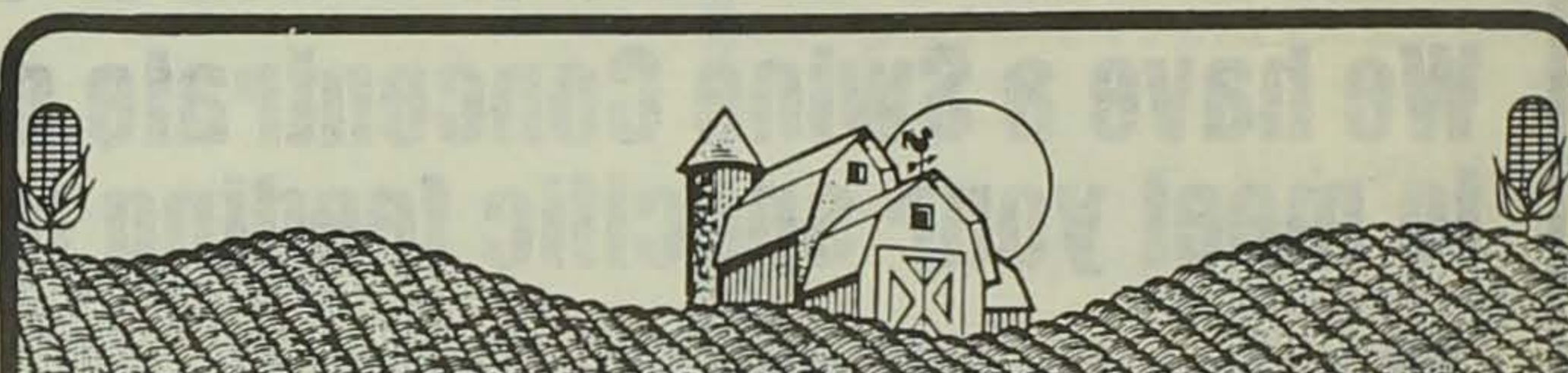
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CASS COUNTY SOIL CONSERVATION DISTRICT PERSONNEL
Front row: Gene Eyberg, Soil Conservation Technician; Carolyn Wilson, State Clerk; Bob Anderson, co-operative agreement employee. Back row: Gary Wolfe, State Engineering Aide; Bill Willis, District Conservationist; Duane Ohrtgies, Soil Conservation Technician.

SOIL CONSERVATION

SOIL CONSERVATION DISTRICT PERSONNEL

Carolyn Wilson.....District Clerk
Gary Wolfe.....Engineering Aide II

USDA—SOIL CONSERVATION SERVICE (SCS)

Bill Willis.....District Conservationist
Gene Eyberg.....Soil Conservation Technician
Duane Ortgies.....Soil Conservation Technician
Robert Anderson.Cooperative Agreement Employee

EXTENSION SERVICE

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LaVon M. Eblen.....Extension Home Economist
Mary E. Ottmar.....Ext. 4-H and Youth Leader
Bev Gunderson.....Office Assistant
Sondra Jensen.....Office Assistant

AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE (ASCS)

Elaine Martens.....County Executive Director
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ASCS COUNTY COMMITTEE

Richard Follman Folmer Nelson
Lawrence Wohlenhaus

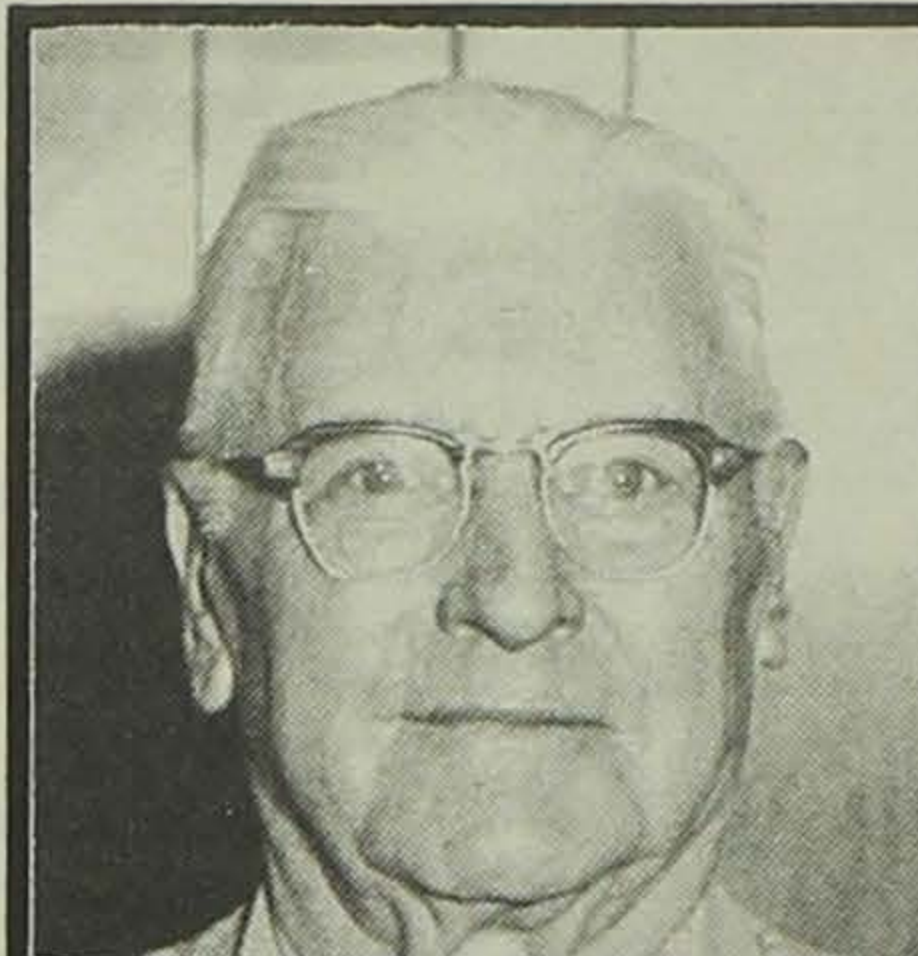
FARMERS HOME ADMINISTRATION (FmHA)

Alan Seehusen.....County Supervisor
Allan E. Olson.....Assistant County Supervisor
Madonna Nisson.....County Office Assistant
Julie A. Hansen.....County Office Clerk
Debbie L. Berrier.....County Office Clerk
Gary W. Ludington.....District Director
Forrest D. Vermillion.....Ass. District Director
Shirley A. Winston.....District Loan Specialist
Merlyn Rees.....District Loan Specialist
Diane Larson.....District Loan Technician
Joyce Heaton.....District Loan Technician
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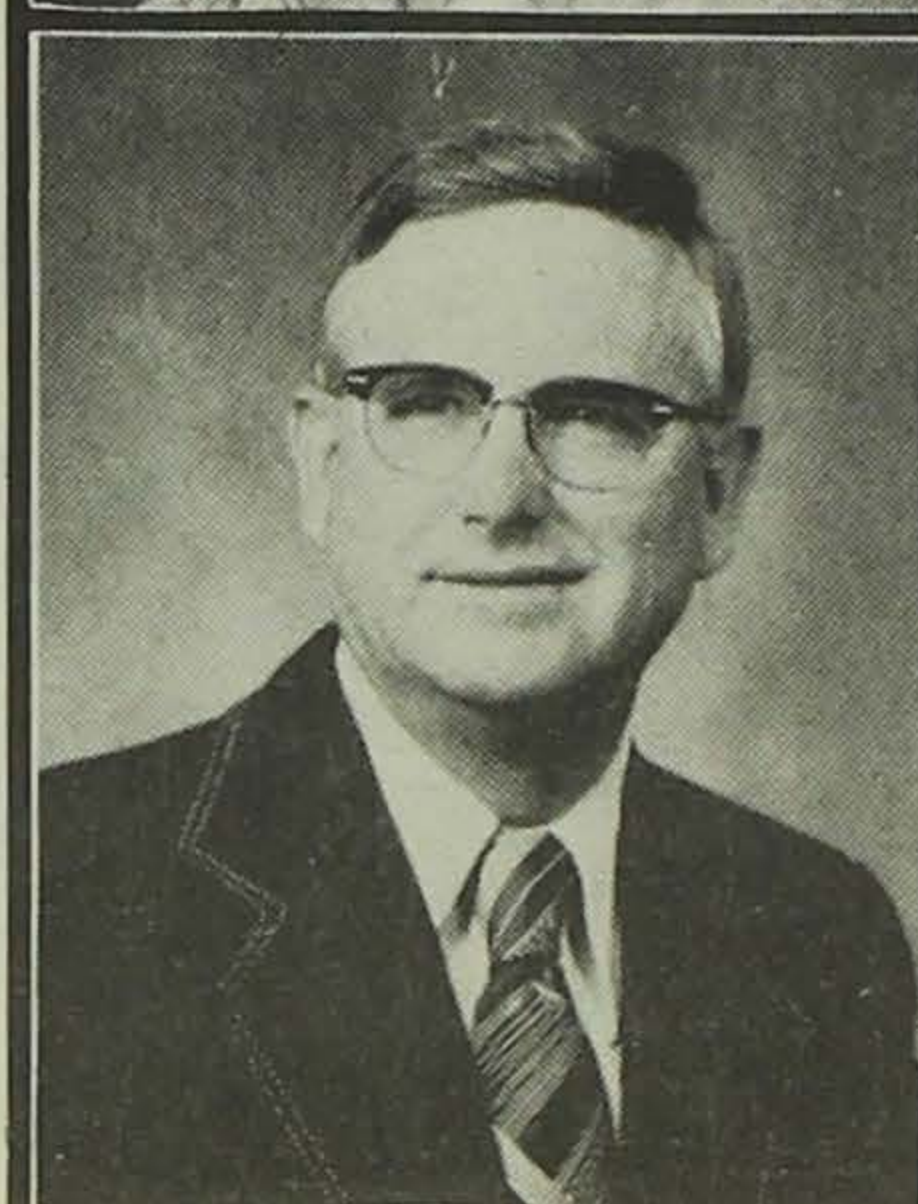
Chuck Fillingier.....District Director

'87 Annual OF CASS COUNTY SOIL C



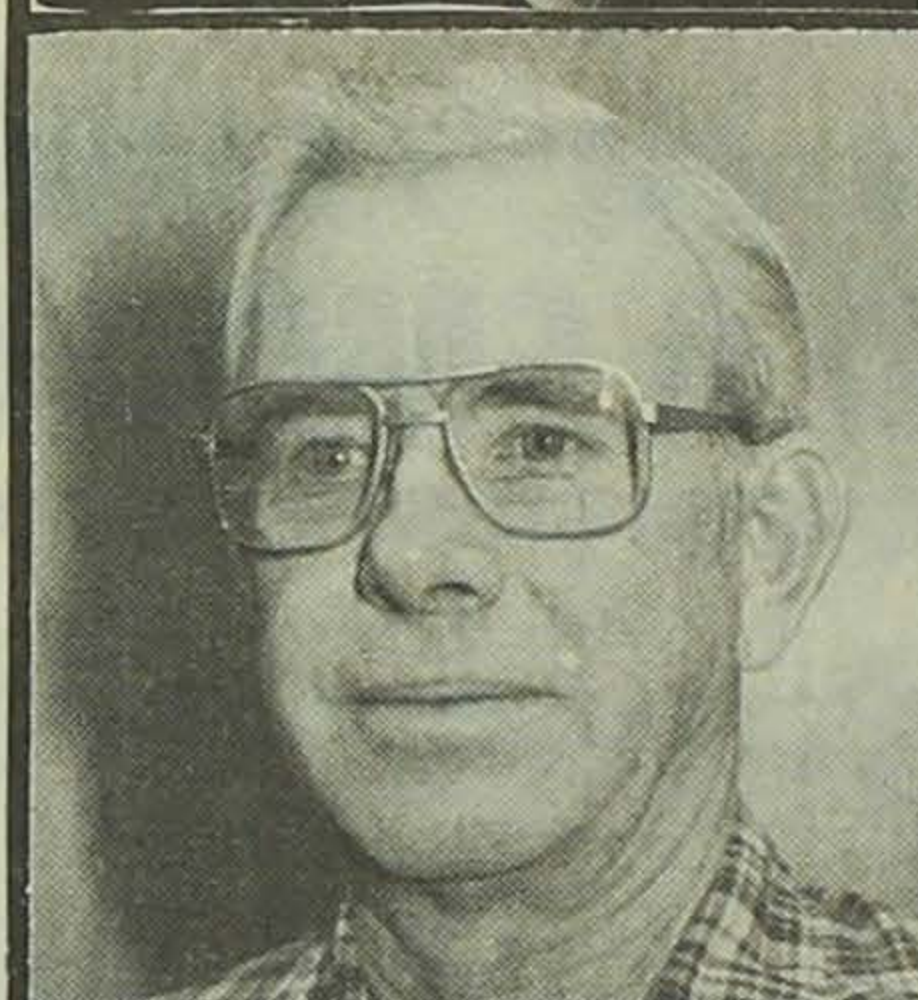
Gilbert Wehrman

Assistant Commissioner, active in SCD efforts to maintain existing watershed structures recipient of the Omaha World Herald Certificate of Merit 1979; former District Conservationist for Cass County, Soil Conservation Society of America member.



Wendell Pellett

Assistant Commissioner and State Representative; District Commissioner for 18 years and Assistant Commissioner for the past 15 years; Past Director of the Iowa Association of Soil Conservation District Commissioners (3 years); Member of the State Soil Conservation Committee (8 years); Outstanding ISU Alumni; State Soil Conservation Committee Award.



Ed Rabe

Ed Rabe has been appointed to fill an unexpired term as a District Commissioner. Site 39 of Turkey Creek Watershed was built on the Rabe farm in 1975. This land was recognized as an outstanding conservation farm in 1977 by the IASDC — Region 5.



Bill Fudge

District Commissioner since 1980; Assistant Commissioner, 1974 to 1980; Goodyear Award, 1970; Iowa Conservation Award, 1960; Omaha World Herald Certificate of Merit, 1978; Outstanding Commissioner Award, 1984; Watershed Achievement Award, 1986.

SCS Office

Gene Eyberg, Elmer Wolfe, Duane Ortgies

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CONSERVATION

Annual Report

CONSERVATION DISTRICT



Tom Magill

Assistant Commissioner for the last 5 years; District Commissioner for 6 years; Member of the Cass County Conservation Education Committee; Member of the Cass County Conservation Board.



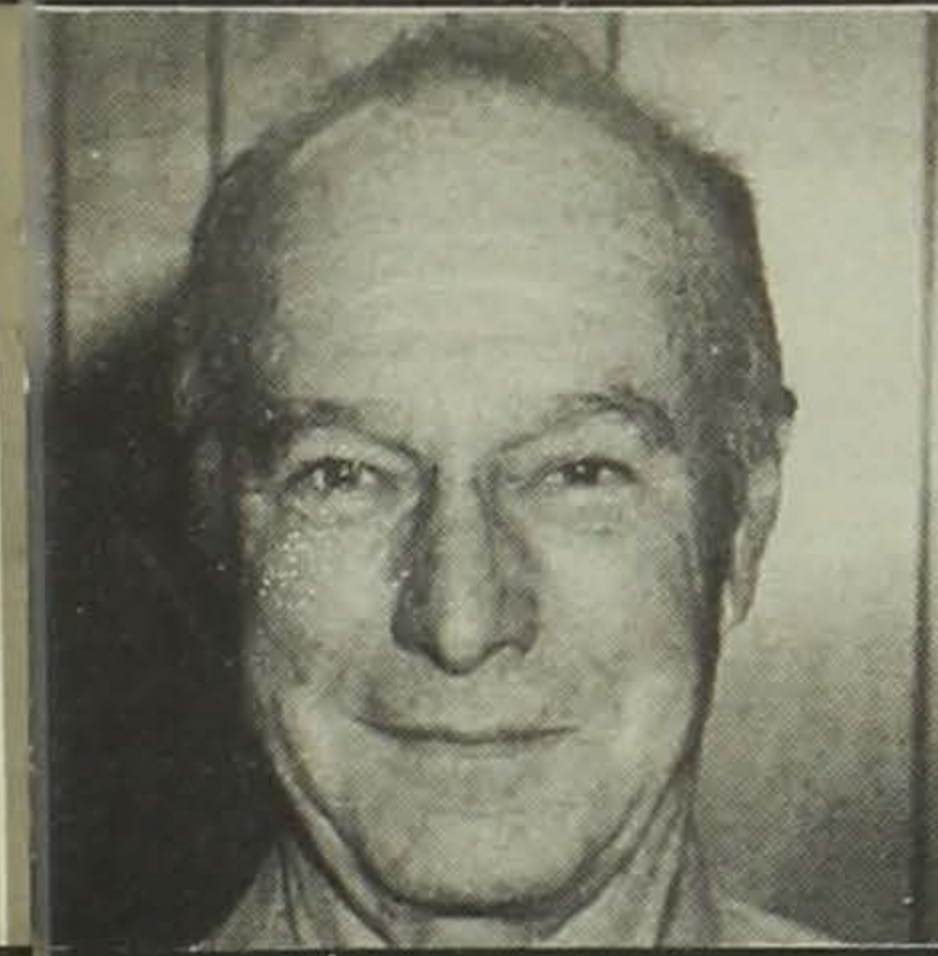
George Hosfelt

District Commissioner; Commissioner since 1952 (34 years); Outstanding Commissioner Award, 1958; Outstanding Commissioner Award, 1976; Statewide Outstanding Commissioner Award, 1976; Honorary Member of Iowa Association of Soil Conservation District Commissioners, 1977; Omaha World Herald Certificate of Merit, 1979.



G.M. Baier

District Commissioner for 16 years and Assistant Commissioner for one year; Outstanding Commissioner Award, 1983; Alternate Delegate to the Iowa Association of Soil Conservation District Commissioners; Chairman, Cass Co. RC & D Committee; Sec.-Treas. of Golden Hills RC&D Executive Committee.



Max Miller

District Commissioner since 1964; Assistant Commissioner for four years; Region 5 Outstanding Commissioner Award, 1981; Member Cass County RC&D Committee; Cass County delegate to Land Preservation Policy Committee.

Office Staff

mer Ouderkirk, Gary
ies and Bill Willis

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ACCOMPLISHMENTS

New cooperators.....	No.	19
Landowners requesting assistance.....	No.	355
Landowners applying a practice.....	No.	185
New conservation plans.....	Ac.	16,622
Terraces.....	Ft.	160,350
Tile drainage.....	Ft.	61,600
Grassed waterway.....	Ac.	.5
Contouring.....	Ac.	645
Conservation tillage.....	Ac.	425
Farmstead and feedlot windbreak.....	Ac.	1
Wildlife habitat.....	Ac.	29

EXPENDITURE OF FUNDS

1-M BUDGET

Allocation.....	\$2,267.54
Commissioner mileage.....	2,034.66
Office supplies & expense.....	232.88
Total.....	\$2,267.54

3-M BUDGET

85-86 Allocation.....	\$ 74,082.00
Cost-share warrants paid.....	\$73,094.91
Released to state.....	987.09
Total.....	\$74,082.00

86-87 Allocation.....	\$114,122.00
Cost-share warrants paid.....	\$103,495.40
Obligated but not paid.....	5,062.50
Released to state.....	5,564.10
Total.....	\$114,122.00

87-88 Allocation.....	\$ 95,187.00
Cost-share warrants paid.....	\$68,388.49
Obligated but not paid.....	15,873.00
Unobligated balance.....	10,925.51
Total.....	95,187.00

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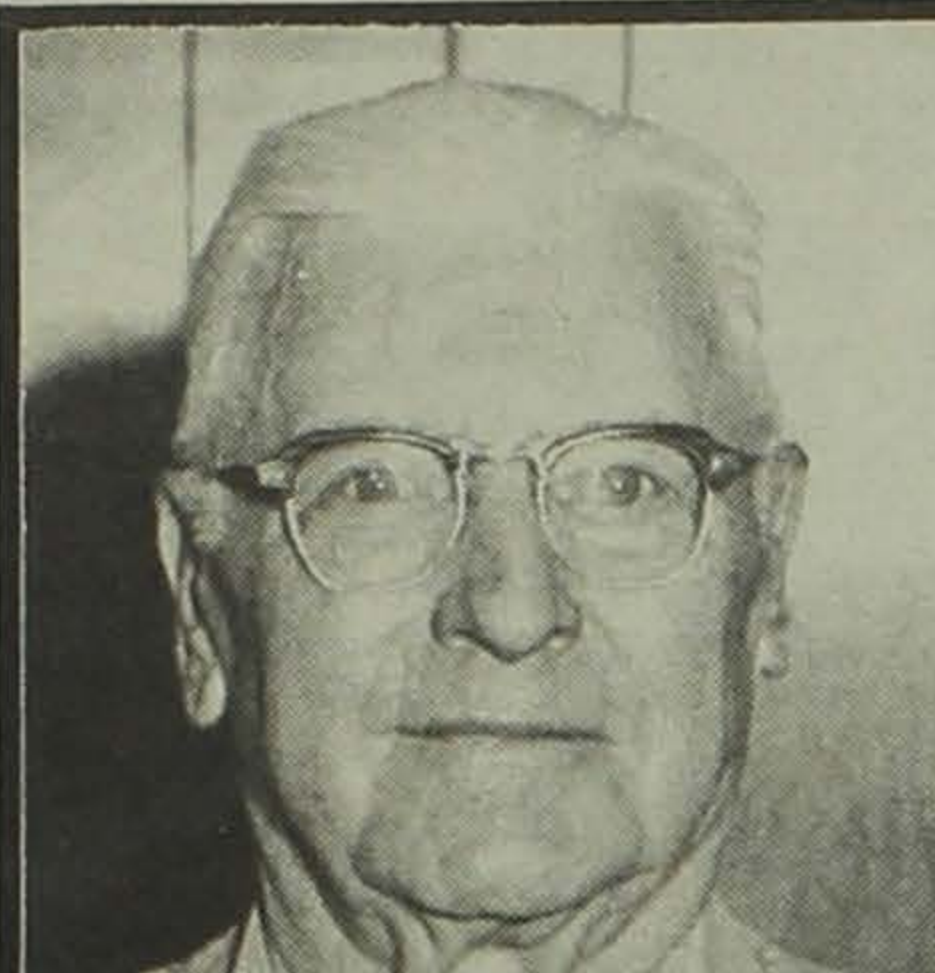
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'87 Annual Report

OF CASS COUNTY SOIL CONSERVATION DISTRICT



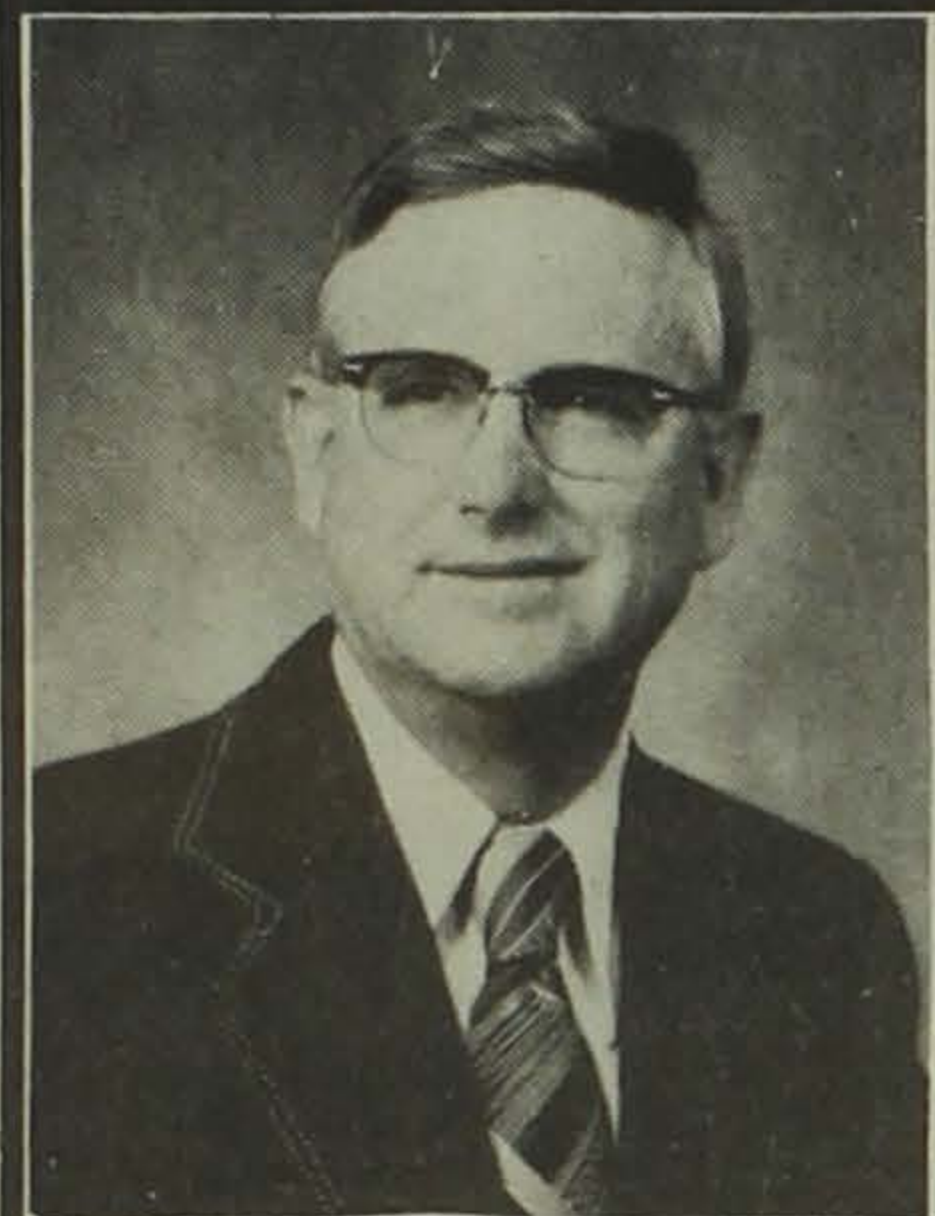
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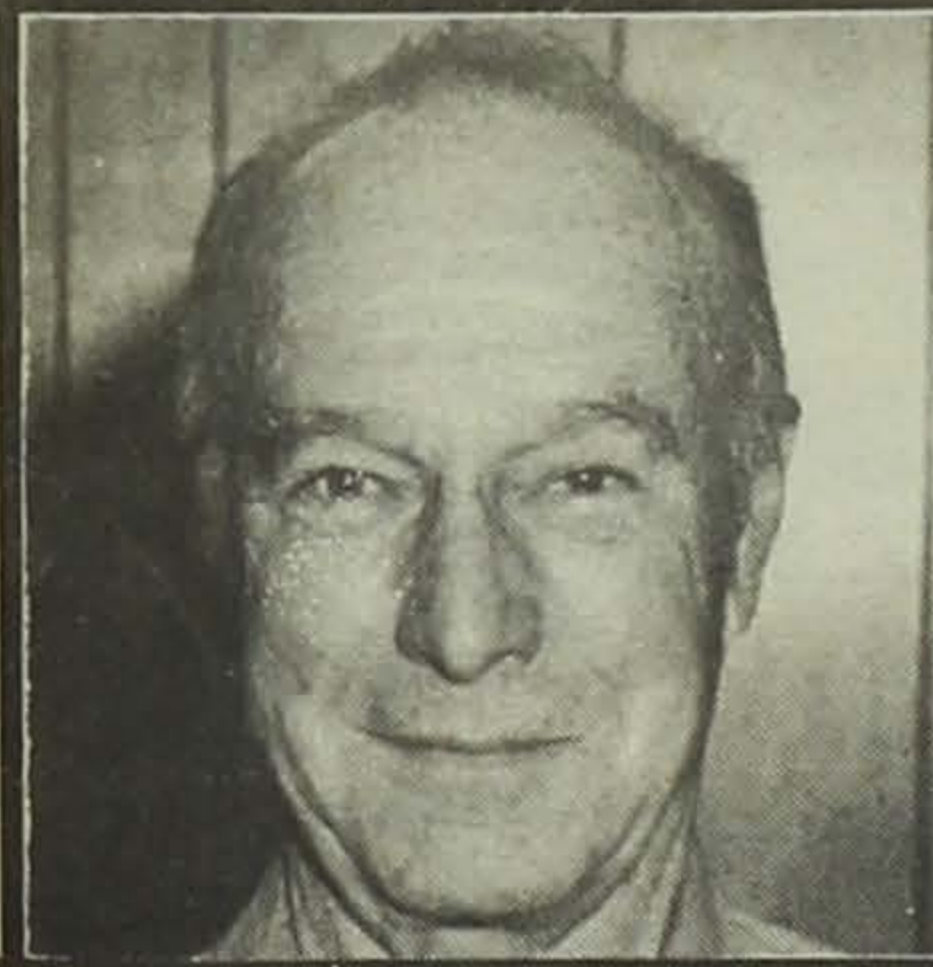
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SCS Office Staff

Gene Eyberg, Elmer Ouderkirk, Gary Wolfe, Duane Ortgies and Bill Willis

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CONSERVATION

BELIEVER. Harley Weber, a Union Township farmer, has been a believer in soil conservation since he was a youngster. The two terraces visible in this picture (one runs across the top of the photo) are new ones built last year to replace three older terraces.

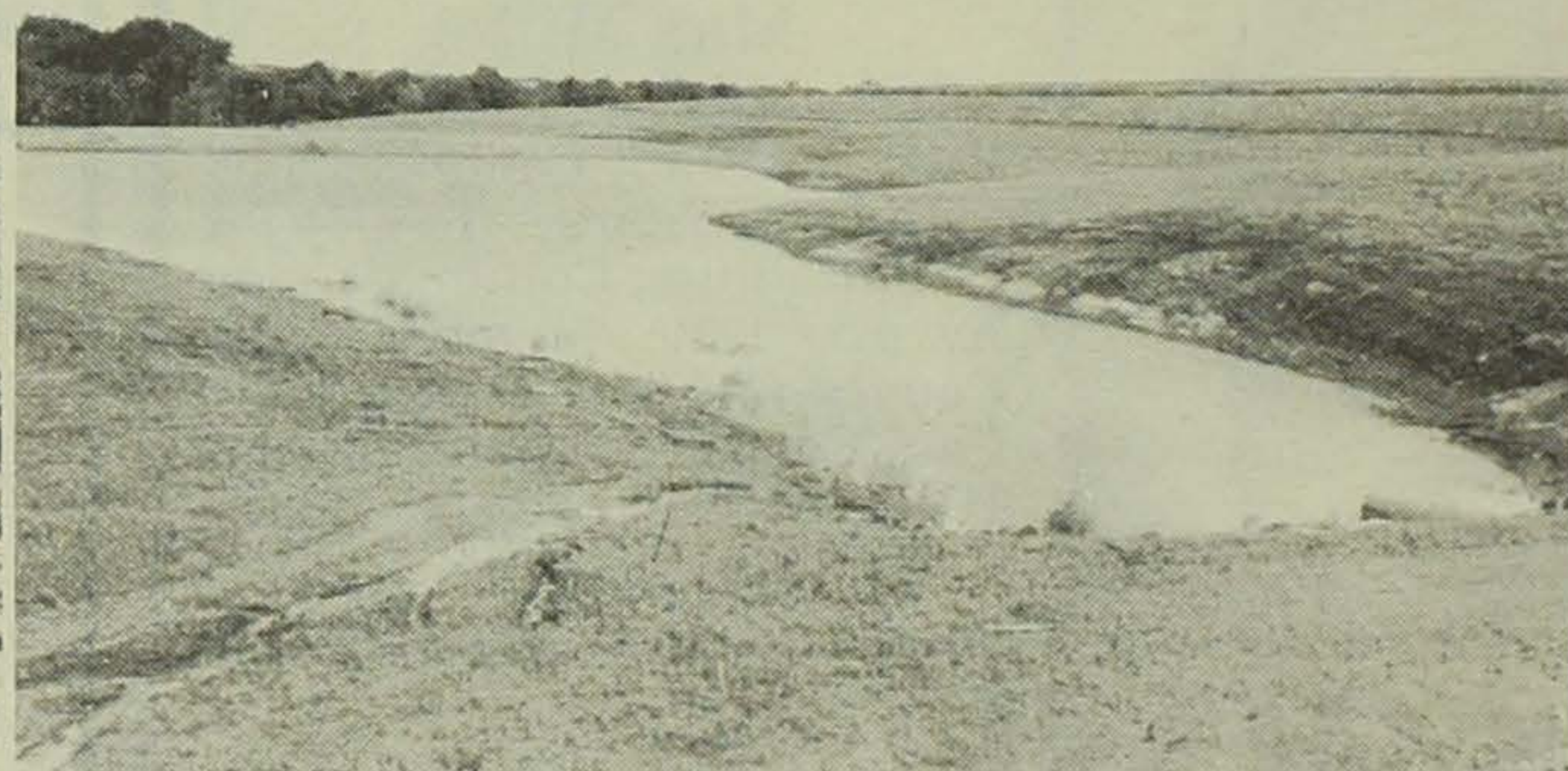


Atlantic Times Photo/Gregg Knowles

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8-year-old Harley Weber discovered need for conservation

By TERESA GLEASON

When eight-year-old Harley Weber was cultivating his father's fields on a hill near Cumberland after a big rain in 1912, he stopped his work and began hand-packing dirt around the corn plants' roots that had washed away.

When he arrived home later that day, he said to his father, "Dad, we aren't going to have any dirt after a while if we aren't careful."

Today, 76 years later, the local farmer and conservationist continues to make such statements and take actions in an effort to preserve the soil for future generations.

Weber, born in rural Cumberland in 1904, began farming with his father after his formal schooling, and bought the family operation, which included a pure-breed Angus cattle herd and land for crops, in 1929. He also raised hogs, but had to give up the pork aspect of his agricultural career during the 1960s due to health reasons.

After the Agriculture Adjustment Act (AAA) was passed in 1936, Weber began to put his concerns for the preservation of the land into action. He began contouring his fields the following year, and had the first terraces in the county built on his property in 1944 with the help of Gilbert Wehrman.

"We had people come from three and four states to watch the construction and ask questions," Weber said.

The rural Cumberland native built an additional terrace on his own the following year, and became involved in explaining the importance of the practice to area farmers.

"A lot of the older farmers at that time didn't realize what terracing was all about, and it was up to us younger ones to let them know what was going on," he said.

Although today's terraces are much wider than the ones built during the 1940s, they did their job well, as Weber said the land his son farms contains some older terraces that are still in use today.

This past fall, Weber replaced several of the terraces on his property with the newer version after the initial structures had given many years of service.

"There are still a lot of people who don't practice conservation. All you have to do is drive down the road and you can see farmers who continue to plant up and down hills," he said.

In addition to putting conservation ideas to work on his own property, Weber and his wife, Louise, have spent a great deal of time sharing their soil preservation ideas and concerns with others.

He served as head of the Cass County Extension Service for four and one-half years, and was a 4-H group leader for many years.

"We used to give a lot of demonstrations in which we'd pour water on top of a sample of soil that looked level to the audience. When they saw how the water pulled the dirt away from the hill, they were convinced," Weber said.

"A lot of the boys I had in 4-H and FFA grew up to be very conservation-conscious," he added.

In an effort to create more conservation awareness, Weber said he would like to see more "conservation days" held during the winter months in which specialists from the ISU Extension Service would demonstrate the latest conservation techniques to local groups.

"I also think the government programs will create a greater awareness of conservation problems in the future," he said.

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AT7

Schuler works to preserve soil for the next generation

By MARIE SUHR

Clyde Schuler of Lyman, who has been practicing conservation for more than half a century, said, "I feel the soil is something we've got to protect. I want to have it in better shape for the generations to come than when I first came on it."

Schuler, retired since 1971, farmed a 240-acre Century Farm south of Lyman for 50 years.

In 1913 his father bought the Saemish farm, which had been Schuler's mother's home all of her life.

After graduating from Westmar College in LeMars, Schuler began farming in 1933.

He said he farmed with horses at that time, but remembers that in 1940 he was able to buy a Ford tractor, two-bottom plow, and a cultivator for \$1,000. He traded in his best team of horses, and was allowed \$300 for them toward his purchase.

As early as 1935, (during the Dust Bowl days), Schuler said the government was pushing for farmers to contour-farm their land to avoid the blowing and

washing away of the topsoil.

At that time there were no such things as terraces, they were called buffer strips.

He explained that when a farmer planted corn, he circled the hill, leaving 15 to 20 foot wide strips of grass or ground which had to be seeded down.

Schuler said a farmer had a constant fight against the weeds in that strip, since there were no herbicides at the time. Regardless of that, he said it was a good means of conservation, even though it made for pretty rough picking sometimes.

Schuler said a weed is still his worst enemy. His wife, Lucia, said he would walk a mile to get a weed if he saw one growing in a field.

In 1985, the buffer strips were beginning to wash away, so he contacted the Soil Conservation Service and they laid out some terraces for him.

There are now 11,500 feet of terraces in place on the farm, covering more than two miles.

Schuler said at first he was not in favor of them because there were too many point rows, which meant a lot of turning around. However, it had gotten to the point where he had to do something to hold the topsoil, and now he said he wouldn't do without them.

By way of explanation, terraces run parallel around a hill and are about 100 feet apart, depending on whether corn is planted in 30 or 40 inch rows, and the slope of the hill. The steeper the hill, the closer the terraces, he said.

When he first put in the terraces, the hardest part was to get them all seeded down. He said, "I don't like weeds, so I would go out and spray before the crops came up."

In the falls of 1986 and 1987, Schuler did additional terracing, and even though

he no longer farms the ground himself, the last two years he has done all of the terrace seeding himself.

He said he intends to do more conservation work in the next two years.

The conservation-minded Schuler has engaged in another project in recent years: the planting of trees on erodible land which had not been farmed for a number of years.

It seems that five years ago, his son, Warren, then employed by the Woodbury County ASCS, sent him 500 trees to plant.

It was quite an undertaking to set out all the trees by hand, but he recruited a few relatives to help and made five rows of trees, each row 45 rods long.

He said he mowed around the seedlings every two weeks and saved 90 percent of them, sometimes hauling water to them when it was dry.

He proudly reports it will someday be a habitat where birds, pheasants, and other wildlife may be found.

The Schulers have three daughters and a son: Cydel (Mrs. Brian) Maxwell of Battle Creek; Karen (Mrs Lee) Craig of Franklin, NC; Denise of Savannah, MO; and Warren of Red Oak.

The Schulers enjoy traveling to Texas, Arizona, and Florida where they spend the winter months.

They are members of the Noble Center United Methodist Church.

Schuler said he has always enjoyed farming, even when he farmed with horses, but he was disturbed by the waste he saw taking place: the washing out of fields and the lack of grass strips, so he always seeded his ditches.

He added, "The government is doing a great thing to help farmers preserve the land so we can have it to pass on to future generations so they'll have something, too."

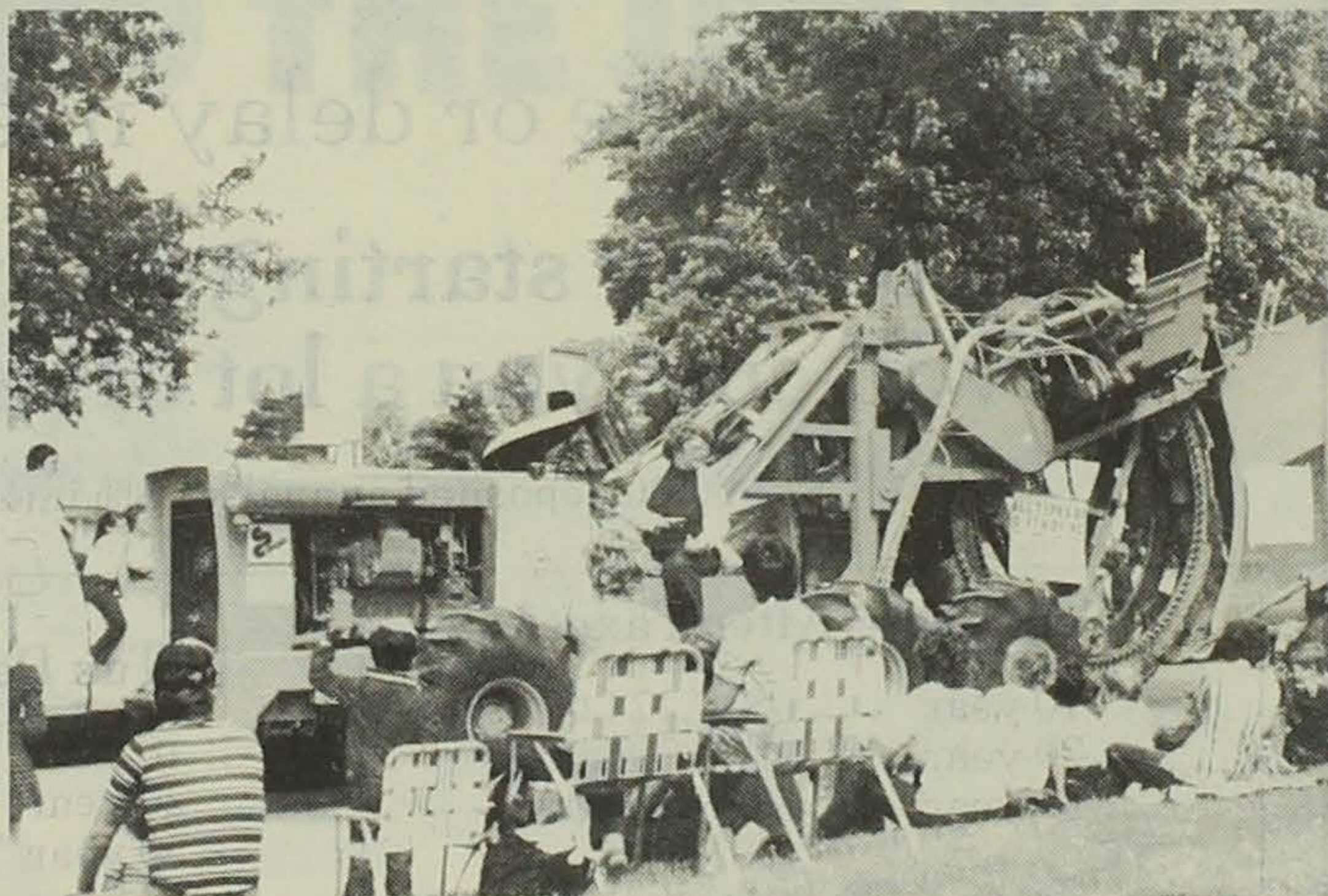


CONSERVATIONIST FOR MORE THAN 50 YEARS. Clyde Schuler of rural Lyman has installed 11,500 feet of terraces on his farm to help control soil erosion.

Atlantic Times Photo/Sue Williams

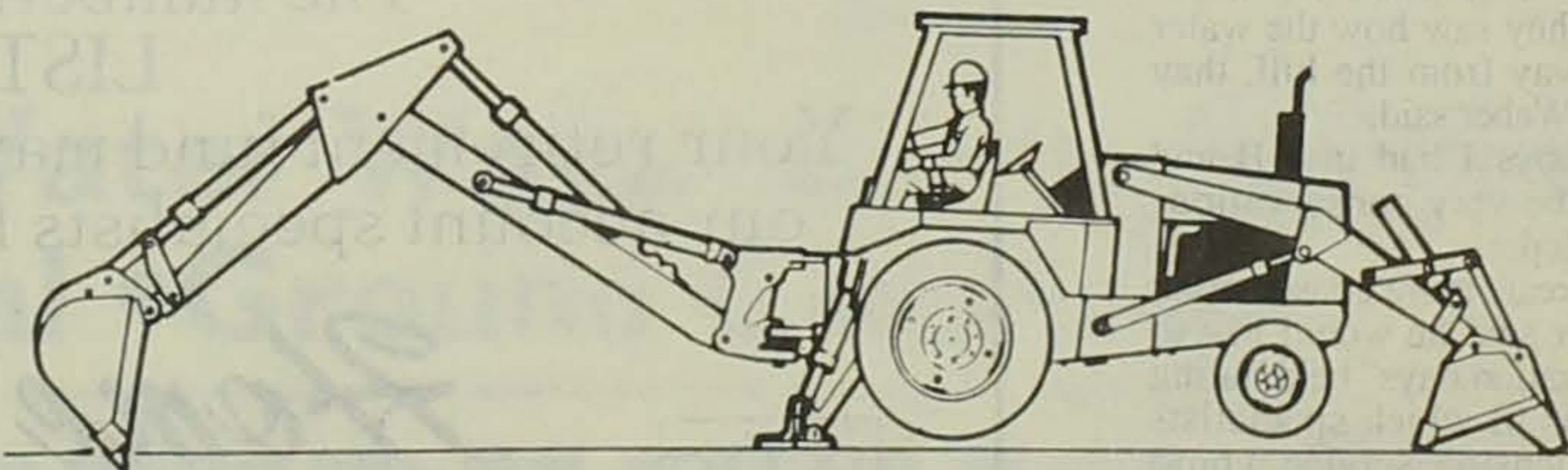
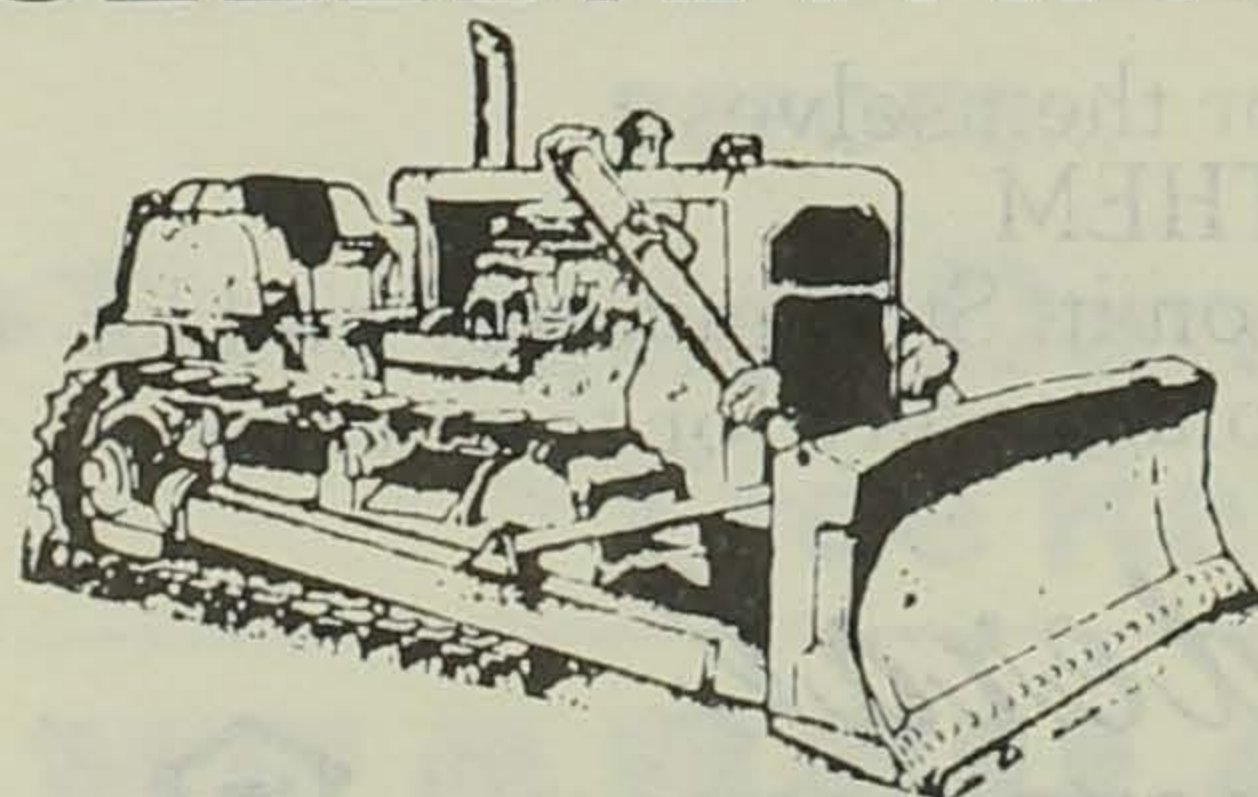
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Clyde Schuler of rural Lyman stands near an outlet along one of his terraces.

Soil conservation joins computer age

(The following article was written by Lyle Peterson, area resource conservationist.)

CAMPS: An old word with a new definition that is being heard in many soil conservation service field offices in Iowa. It stands for Computer Assisted Management and Planning System.

It is a system of computer programs and information that can help the field office manage information used or created on a daily basis. CAMPS is designed to be used by people within SCS. The information stored and available will be useful to many people, especially farmers and other computer-related occupations.

All of the data that will be available from the computer has been available in the field office previously. The time it takes to compile the information and print it in usable form has prevented many things from being used.

Now, the computer can put together the lists of names under the various topics we have entered. It can do in a matter of minutes what would have taken hours to do manually. This may mean that you will receive a personal letter concerning subjects you are interested in rather than just seeing a general news article.

Soils data has been available in the soil survey report that is general for the county. Now, the soils can be listed specifically for each field in a conservation plan and a separate report prepared

for each field.

In the near future, we will be able to give you the measured acres of each soil in an individual field. This information will come from the data base that will be made as the soils maps for each county are entered in the computer.

At the present time, we are busy putting the name of each landowner into a computer data base. These names and the related land will be the basis for all of our SCS business. We make HEL (highly erosive land) determinations, CRP eligibility determinations, and conservation plan development based on the tracts and fields that belong to each landowner.

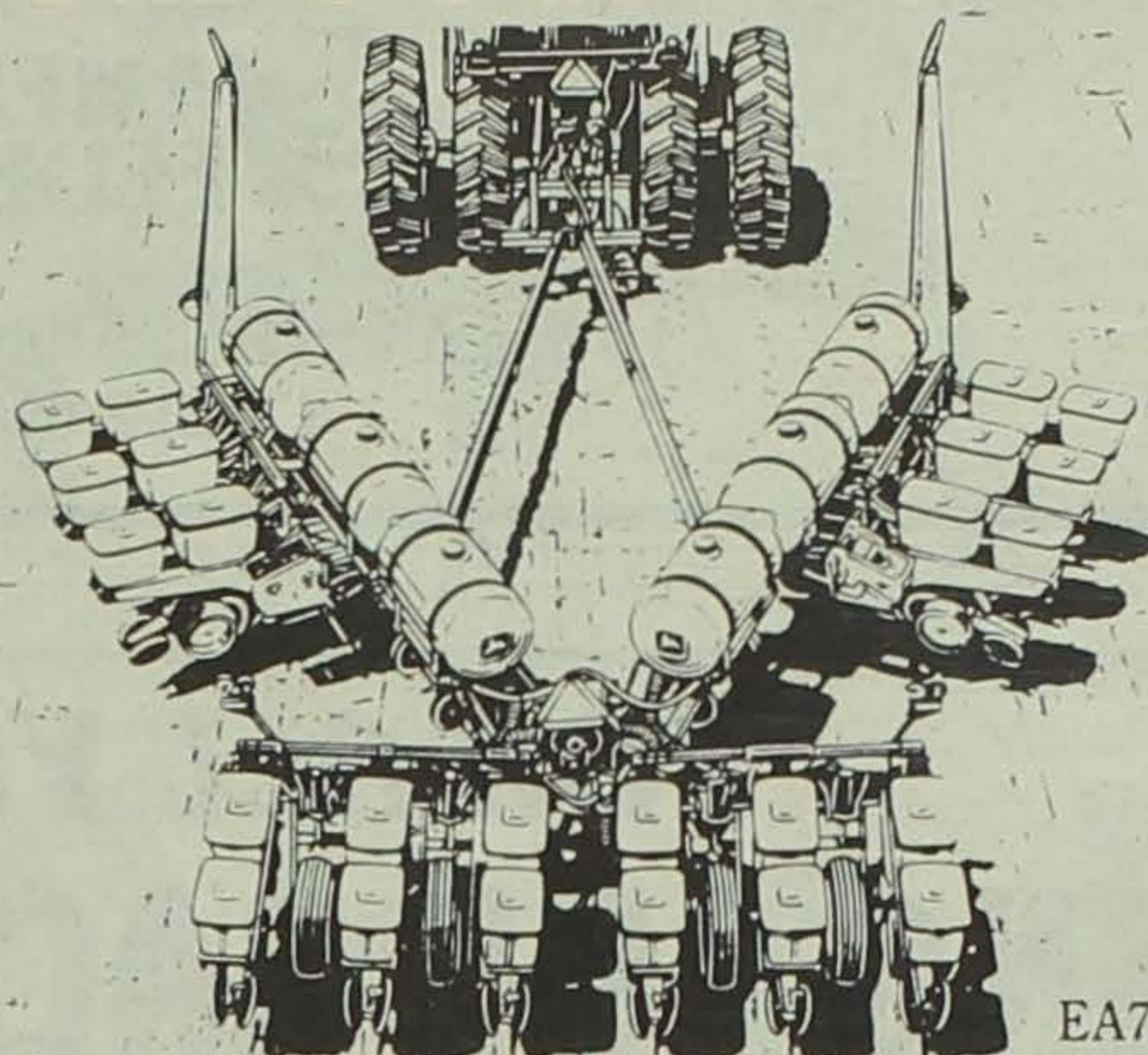
Here in Area 4, we still believe that final control of the land rests with the landowner. Therefore, our conservation plans will be made with the landowner. The tenant may be involved or may be our sole contact depending on the wishes of the landowner.

Overall, we feel that the computer will enable us to give more information about specific parcels of land. It will enable us to do many things that we have felt took too many hours to compile.

SCS has joined the computer age and we intend to make it beneficial to you on the land.

Our basic mission remains soil and water conservation. The computer is just one more tool to help make it happen.

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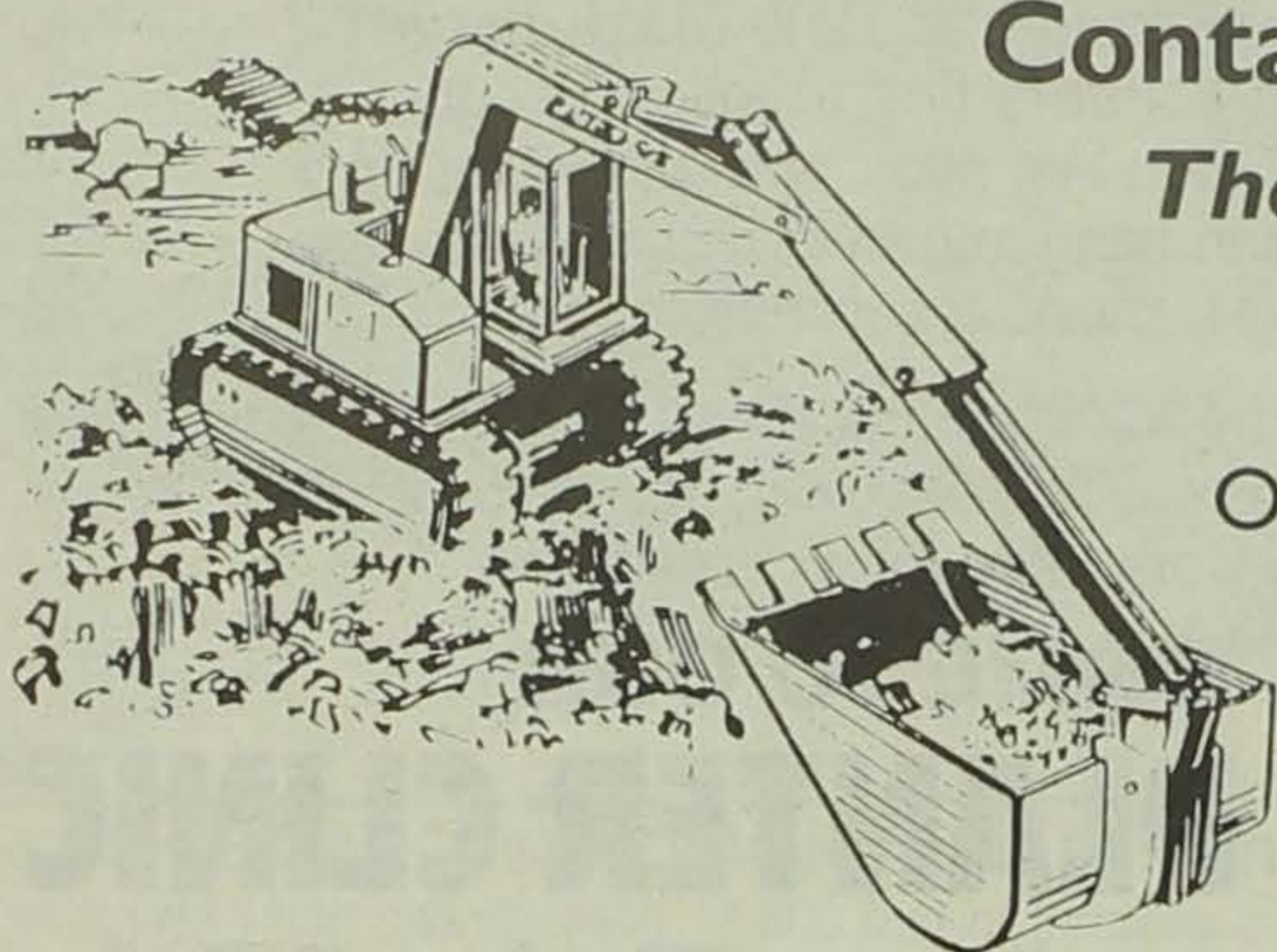
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ASCS can help farmers with conservation plans

The Agricultural Stabilization and Conservation Service (ASCS) is an agency of the United States Department of Agriculture which administers provisions of the Food Security Act of 1985 or the 1985 Farm Bill.

One provision of the bill is conservation compliance. To remain eligible on all farms for deficiency payments, diversion payments, price support loans, federal crop insurance, Farmers Home Administration loans, Commodity Credit Corporation storage payments, and Conservation Reserve Program annual payments, an approved conservation plan must be developed on highly erodible fields by Jan. 1, 1990. This plan must be fully implemented by Jan. 1, 1995.

A highly-erodible field that was not in a row crop, small grain crop, or Acreage Conservation Reserve (ACR) during the period of 1981 to 1985 must have a conservation system approved by the Soil Conservation Service in order to remain eligible for USDA benefits. This is regardless of planting in 1986 or 1987.

Any wetlands which are soils that are covered with water or are saturated most of the year and support water-loving plants that were converted to cropland after Dec. 23, 1985, (the date the farm bill was signed) are considered swampbuster.

To remain eligible for program benefits, production of annually tilled crops must be discontinued.

Before any payments are issued from the ASCS office, the form AD-1026 - Highly Erodible and Wetland conservation certification - must be completed. The penalty for incorrectly answering questions, sobdusting, or swampbusting will result in the loss of all program benefits for the year for all farms. The cropping history on any field in question may be reviewed in the office files.

The local ASCS office personnel include Elaine Martens, county executive director; Sharon L. Boken, Jamie A. Newbury, Jeanine R. Christensen, Diane M. Carspecken, Mona M. Ballinger, Sharon V. Crane, Jackie J. Pelzer, program assistants; Julie R. Anderson, Kristi M. Conn, and Marcella J. Waltz, temporary office personnel; and Forrest E. Winston and Elimar Sudmann, field employees.

The Cass County Committee consists of the following individuals: Richard Follmann, chairman; Folmer Nelsen, vice chairman; and Lawrence Wohlenhaus, regular member.

E. Pottawattamie Extension News

*When sign-up begins, you will be required to certify on form AD-1026. If you have broken out land which was not in a row crop or set-aside acres in the years 1981 through 1985, you must check "yes" to question 6. A new certified conservation plan must be applied to all sobdusted ground in order for you to remain eligible for USDA benefits. For your own benefit, DO NOT ANSWER THE SODBUSTER QUESTIONS INCORRECTLY! If you provide false certification on the sobduster form, you will lose ALL USDA benefits on ALL farms. This is regardless of planting in 1986 and 1987, and applies to old building sites as well as hay and pastureland. So remember:

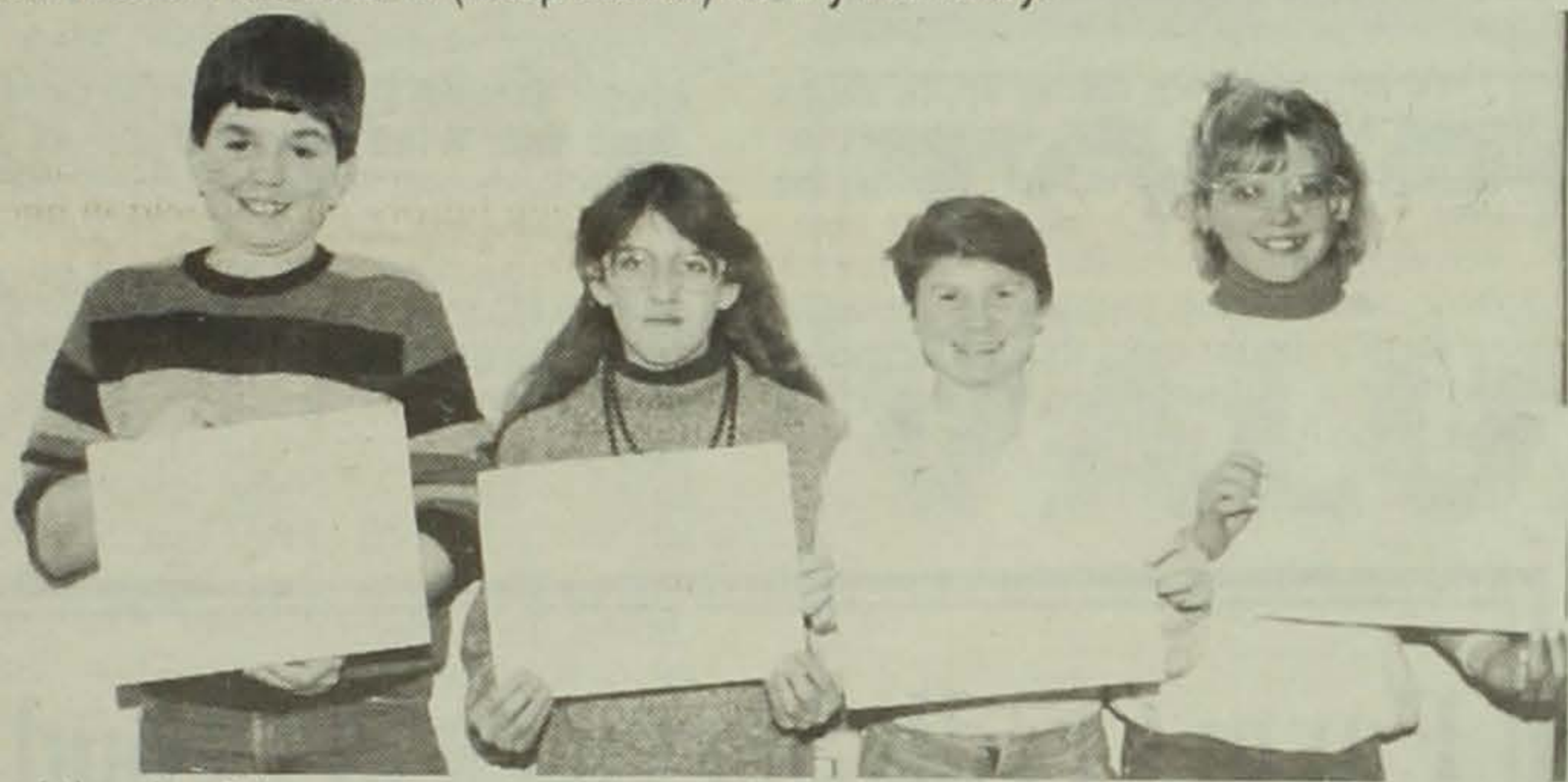
- 1) You cannot break out ground not farmed in the years 1981-1985 without so indicating on form AD-1026 and applying a new certified conservation plan on those acres.
- 2) You may lose all ASCS program benefits on all farms as well as FmHA loans, and other USDA benefits if you violate the sobduster/swampbuster regulations.



Atlantic 5th graders in Mrs. Jordan's class are, front row, (1st) Colin Cave; (2nd) Janelle Peterson; and (3rd, not pictured) Mark Mathias. Back row (Honorable Mention) Brian Nielsen, Courtney Sierck, and Ryann Ostrus.



Atlantic 5th graders in Mrs. Neary's class are (1st) Amber Kucera; (2nd not pictured) Neil Wohlenhaus; (3rd) Ali Payne; and Honorable Mention Wendi Adams and (not pictured) Jenny Runchey.



Atlantic 5th graders in Ms. Vorthman's class are, (1st) Jeremy Seufert; (2nd) Jaime Davis; (3rd) Jennifer Dollen; and Honorable Mention Sarah Highfill.



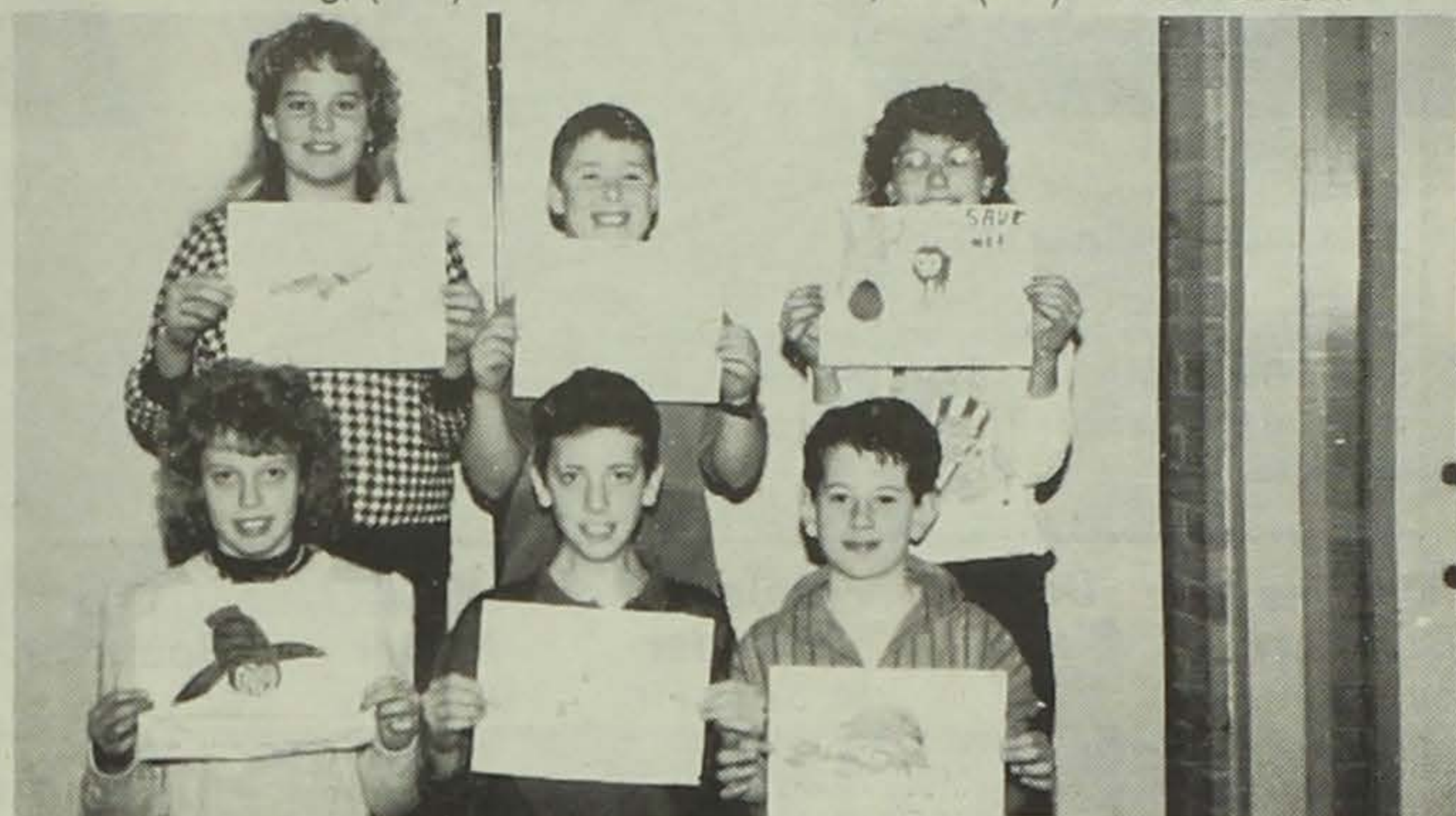
Lewis 5th grade winners are (1st) Kara Renee Conn, (2nd) Misty Muller, (3rd) Jenny Gude, and Honorable Mention Natalie Olson.



Atlantic 5th grade poster winner in Mrs. Hansen's class are, front row left to right, (Honorable Mention) Mitzi Miller and Michelle Sullivan; back row, (1st) Monica Lewis; (2nd) Amy Dimig; and (3rd) Jessie Phillips.



Atlantic 5th graders in Mrs. Riesgaard's class are, front row from left, (Honorable Mention) Ryan Robinson and Halsey Wasson; back row (1st) Jessica Sandvig, (2nd) Heather Rasmussen; and (3rd) Marie Hansen.



Elliott 5th graders are, front row left to right (Honorable Mention) Jade Anderson, Jason Karwal, and Ryan Meek. Back row, (1st) Tabitha Kinser, (2nd) Brandon Adams, and (3rd) Tracy Kelley.

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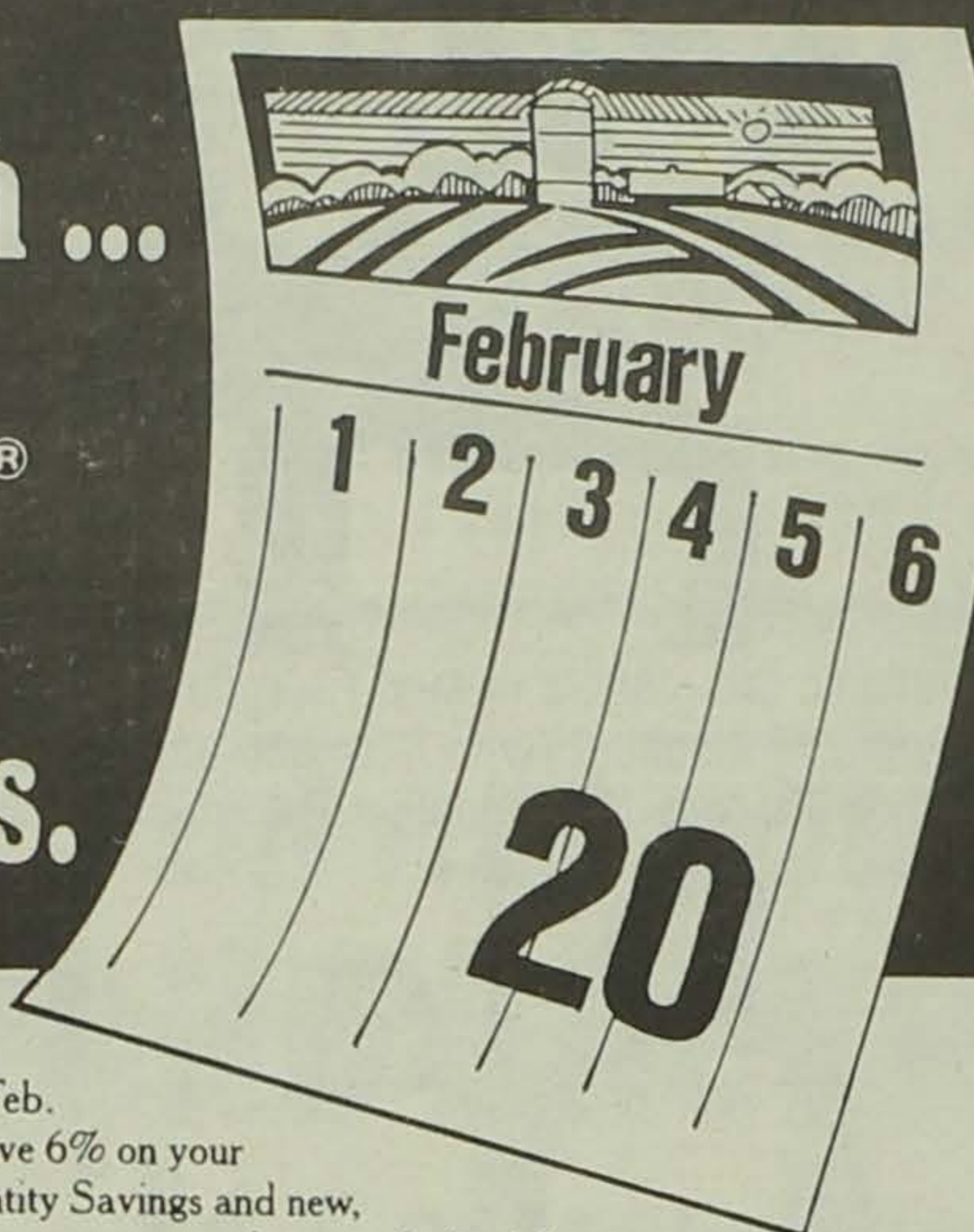


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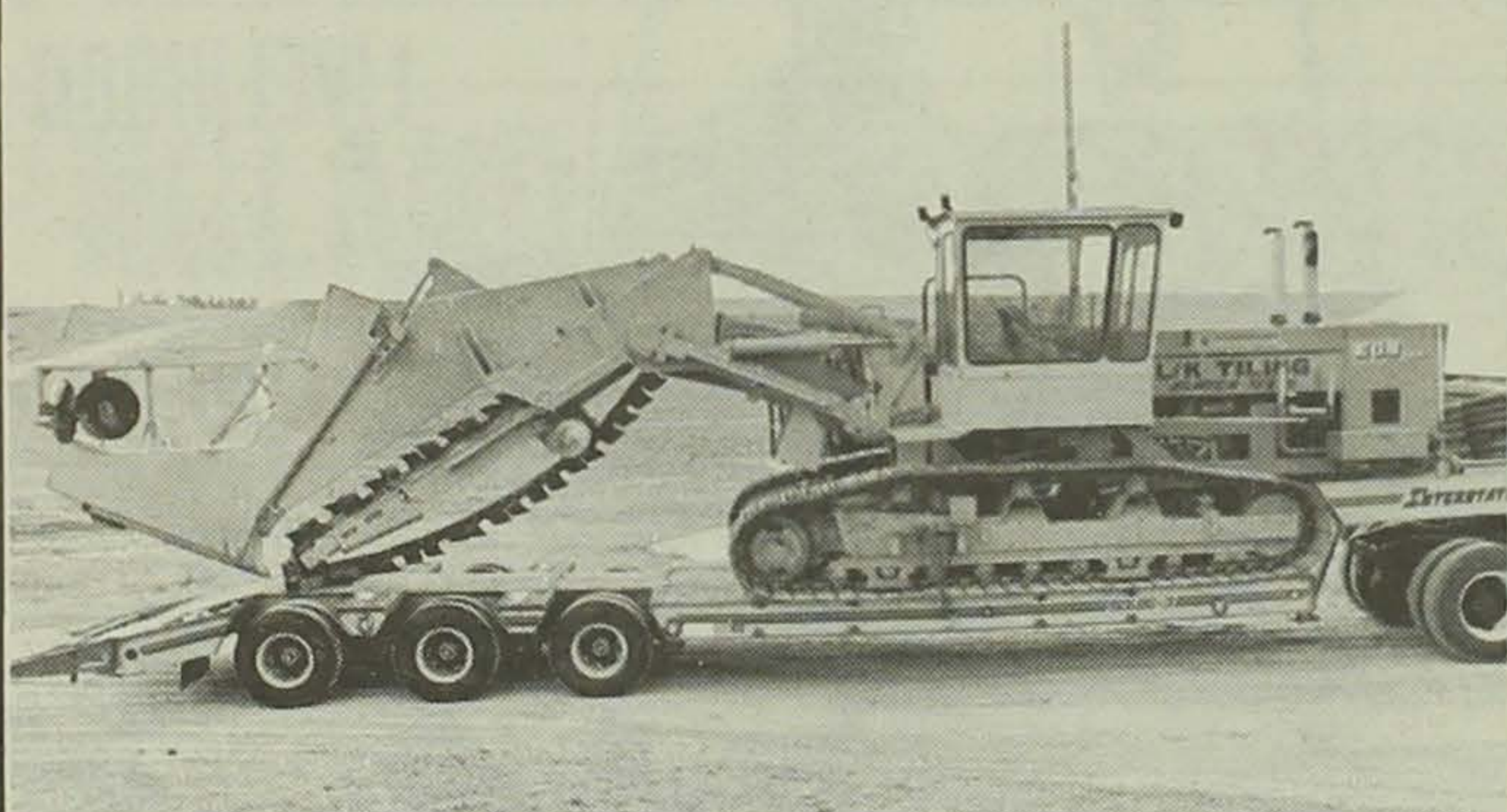


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Larry Kay thinks soil loss would shock the public

By TERESA GLEASON

"If we (the public) really knew what was going on (regarding soil loss), we'd be shocked."

Larry Kay of rural Walnut is convinced of this thought, just as he believes that soil loss has increased dramatically in the last five to 10 years.

Kay, a graduate of Atlantic High School who has been farming since 1961, has always been interested in conservation practices, and said he feels soil conservation is critical.

The local farmer attributes the dramatic soil loss in recent years to several factors: 1) the increased amount of rainfall in southwest Iowa in the past five years, and 2) the fact that farmers in general have taken out their cross fences and are farming longer slopes.

"Farmers are farming bigger fields with bigger machinery. It's kind of the law of economics. The average farm size has to be getting bigger," he said.

Four years ago, Kay began terracing the land he farms in Pottawattamie County, and installed additional terraces there and on land he farms in Cass County during the past year.

Several tile outlets were extended a considerable distance to creeks to avoid a siltation problem in the road ditches. He said he will continue to terrace his land a bit at a time, working with the ground that's the most erodible at first.

"Things have really gotten bad for farmers in the last few years. Certain soil conservation practices, such as terracing and windbreaks, don't pay short-term,

therefore we need some help," Kay said.

The Cass and Pottawattamie County farmer said he thinks the programs that are currently in existence are necessary if the soil loss problem is ever to be corrected.

"There's a lot of people who complain about the government programs (regarding soil and water conservation), but they're necessary as they're prodding us in the right direction," Kay said. "Half of the farmers are convinced it's the thing to do, and the other half are the ones who are dragging their feet."

If current farming practices continue as they have in the recent past, Kay predicts a maximum of 50 years of profitable farming left.

"All the damage has been done in the last 20 to 40 years, and we need to educate the public as to what's going on," he said.

In addition to continuing his terrace work, Kay said he is keeping an eye on no-till, and he minimum tills his land by limiting his tractor trips in the spring.

"I'm a firm believer that soil compaction is becoming one of our biggest yield limiting factors," he said.

Several years ago, Kay made his views on soil conservation nationally known by agreeing to be interviewed for an episode of "Nova", a public television science series.

A group of post-graduate students from Boston, MA, traveled to the Kay farm east of Walnut to collect data and film footage for the program. The film group also interviewed persons from Tennessee and California.

E. Pottawattamie Extension News

*We are currently taking applications through March 31, 1988, for conservation practices to be installed during the spring of 1988. You may request cost-share assistance for practices to correct serious conservation problems and enable your farm to better meet the conservation compliance requirements of the 1985 Food Security Act. These practices in-

clude: Terrace Systems, 60 percent cost-share rate; Windbreaks, 50 percent cost-share rate; and Stripcropping, \$15 per acre cost-share. Contact the office for details. Remember that you must be notified of County Committee approval by our office before the practice is started in order for the practice to be eligible for cost-sharing.

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Mike Nethery

Farm bill requires soil care to receive gov't aid

(The following article was written by Mike Nethery, state conservationist with the Soil Conservation Service.)

Conservation farmers have been saying for years that government programs shouldn't encourage soil erosion. In the past few years, a majority of Iowa farmers have said that taking care of the land should be a requirement for participation in other government programs.

That's exactly what the 1985 Farm Bill has delivered. Passed into law as the Food Security Act of 1985, the bill offers the most dramatic change in soil conservation policies in the United States since the Dust Bowl days of the 1930s.

This soil conservation legislation, which was heavily supported in Congress, says that anyone who plants crops on highly erodible land needs to have a conservation plan by 1990, and he needs to have the conservation work it calls for completed by 1995. If those two provisions aren't met, the farmer would be ineligible for most U.S. Department of Agriculture program benefits.

The Act also says anyone who breaks highly erodible land out of sod or trees to plant a crop could be ineligible for the programs right now. The same is true for anyone who grows crops on wetland.

The programs involved include price supports, disaster payments, crop insurance, storage payments, loans, and others administered by the USDA.

While the law says you have until 1990 to begin a conservation plan, there are several reasons you should contact your local conservation office this year.

For one, if you get a plan now or update one you already have, you'll avoid the inevitable rush in 1989. Secondly, you'll be able to take some time to work the practices into your operation, whether it's reducing tillage more, building terraces, or changing crop rotations.

Another good reason is that there is still a conservation reserve, where the steepest land can be put to grass or trees for a rental fee from the USDA. (There is no guarantee how long this program will be offered.)

There is also no guarantee how long government cost-share programs will be offered.

Remember the 1990 and 1995 dates. Better yet, get in touch with your local soil conservation office now, and get started on a conservation plan for your highly erodible land.

That's the best way to insure your eligibility for future programs.

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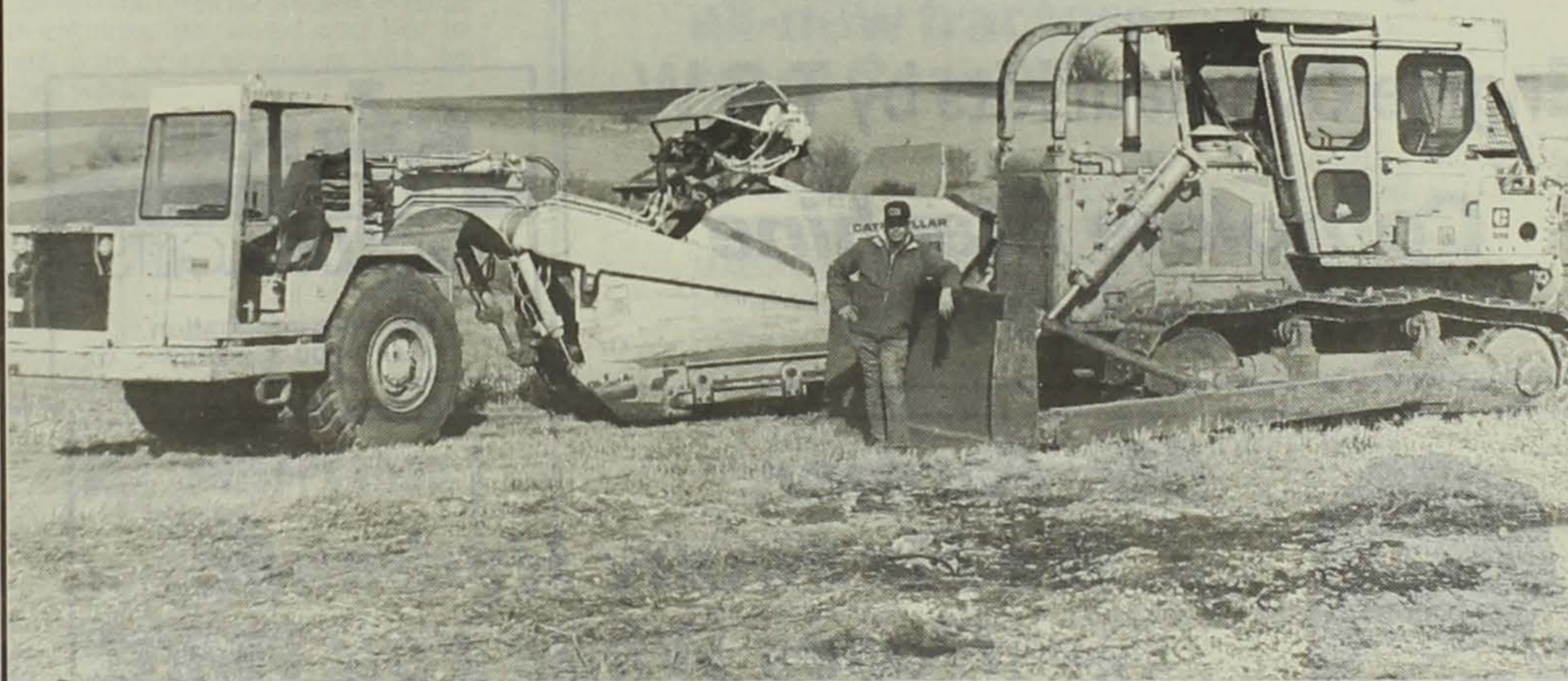


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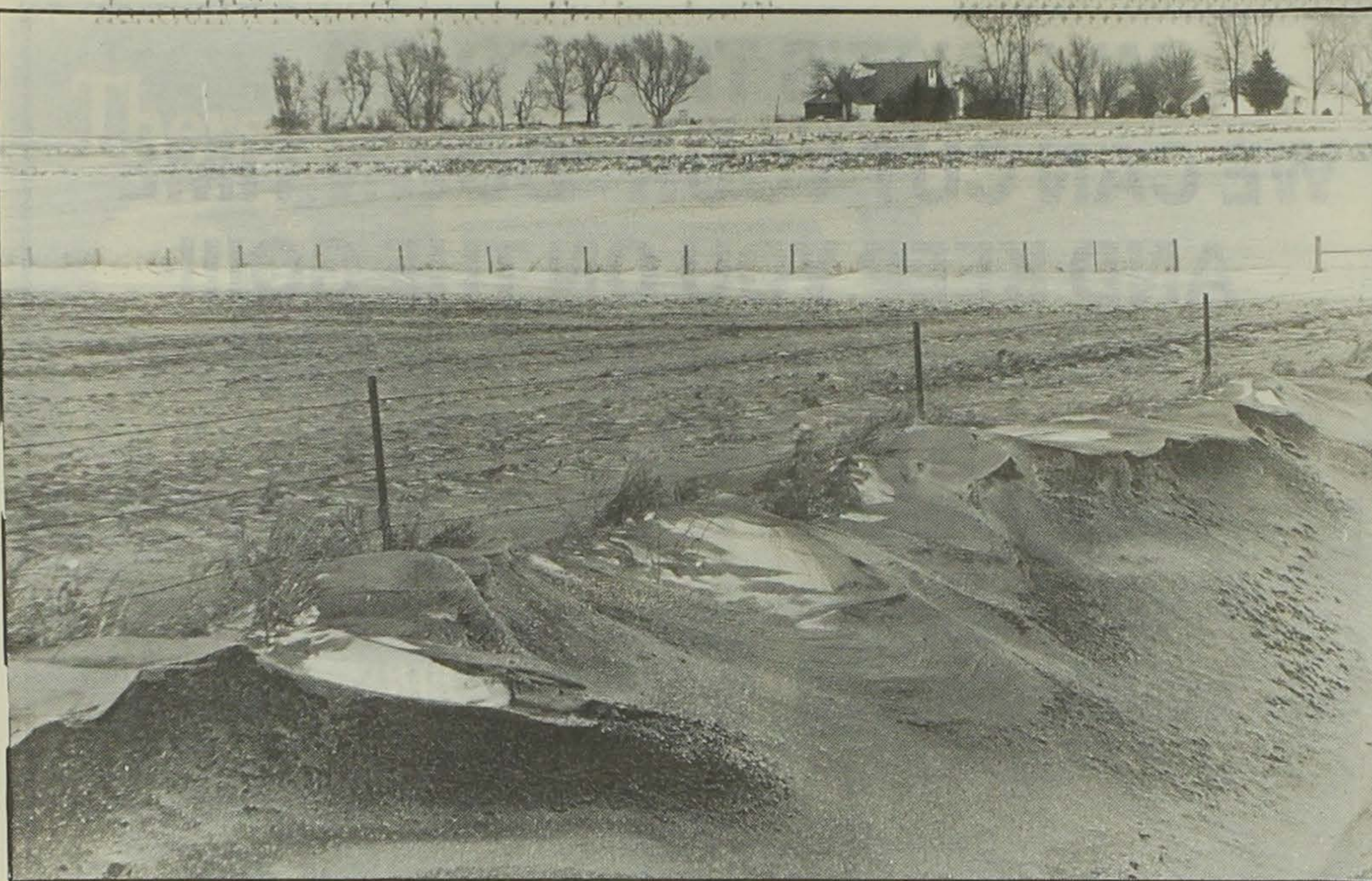


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SNOW DRIFTS OR DIRT DUNES? Winter winds whipped unprotected topsoil on this farm southwest of Atlantic into dirty drifts that would help plug ditches, creating another expensive project for county property owners to pay.

Atlantic Times Photo/Steve Wilms

Take advantage of county's recreation areas

(The following article was written by Melanie Hayner, Cass County Conservation Board Naturalist.)

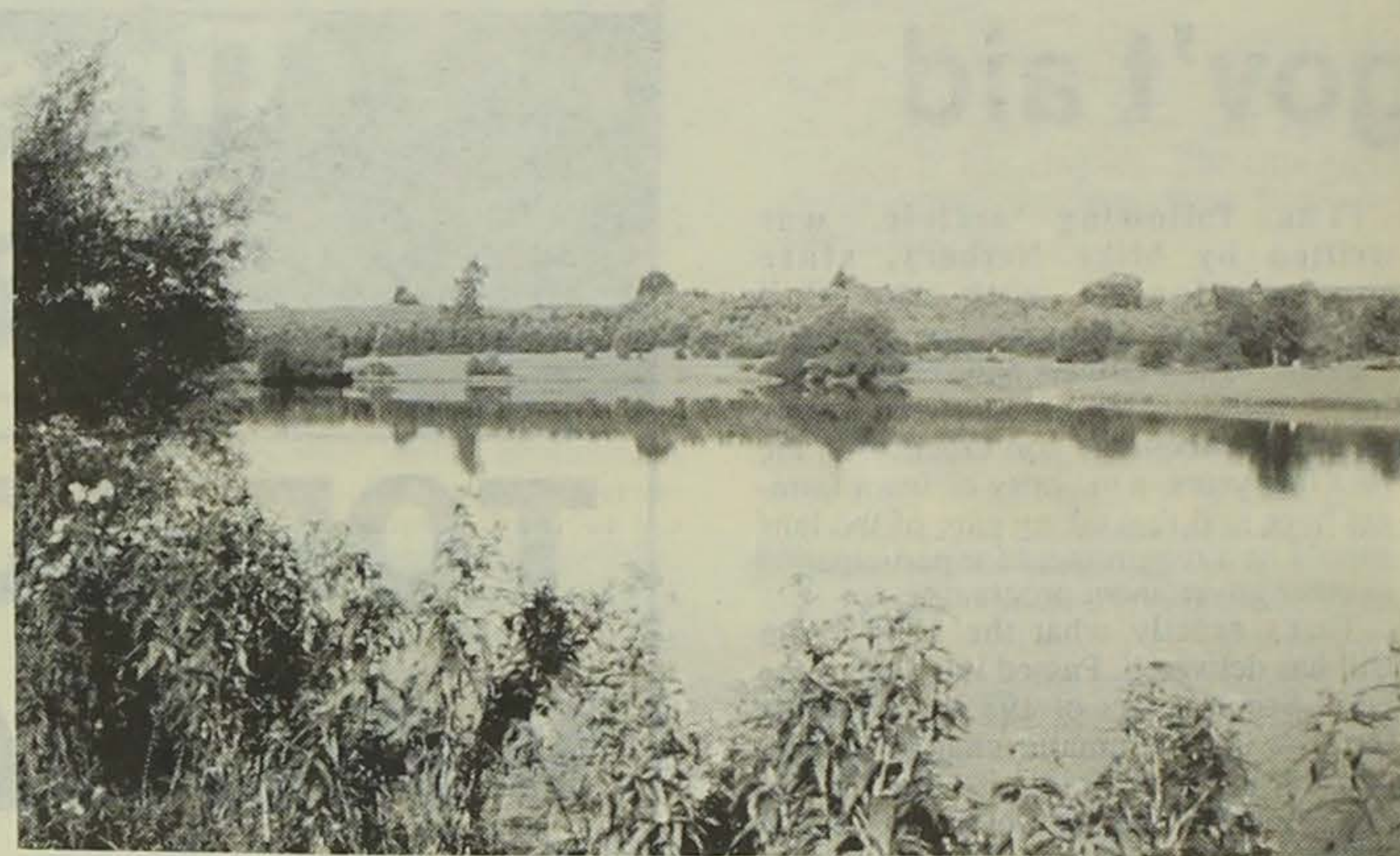
What a wonderful spring day! It's one of those days that is dreamt about all winter long. The sun is bright, the fish are jumping, and the trees are just beginning to break out of their winter dormancy. Days like this are rare! Why not get out and enjoy it? But where?

The Cass County Conservation Board owns or manages 11 parks and wildlife areas throughout the county consisting of approximately 529 acres.

These areas provide much needed habitat for a variety of wildlife as well as places for people to get out and enjoy nature and the satisfaction and excitement that can come with seeing a fox or deer.

One of the county's best areas for wildlife habitat is the Nodaway Wildlife Area, located four miles south and two miles west of Massena just south of County Road G-61. An access road leads back to the 40-acre plot.

It is a beautiful little park with something to offer everyone. For the fish and fishermen, there are three small ponds



A scenic view of Nodaway Wildlife Area.

ranging in size from one-half to eight acres. Many bass, bluegill, channel catfish, and bullheads can be caught by fishermen any time of the year.

For those who like to get out of the kitchen, there are two small picnic areas equipped with picnic tables and grills. Who knows, maybe some fresh fish from one of the bountiful ponds could serve as an appetizing lunch!

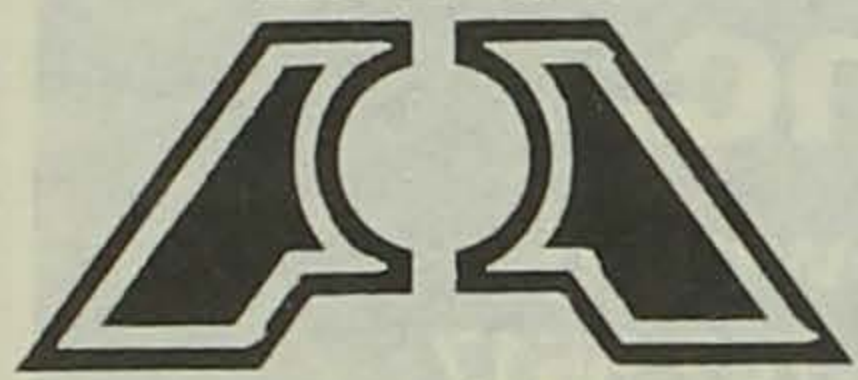
By far, however, this area is for the wildlife! Purchased in 1981 with funds available from the sales of Wildlife Habitat Stamps, the Nodaway Wildlife Area was already a prime example of good habitat. The former owner had already established stands of conifers and shrubs which provided much food and shelter for a variety of wildlife species.

Soon after the area was purchased by the county conservation board, 16 acres of switchgrass were planted. This native prairie grass provides excellent cover and nesting areas for all types of game birds. It also provides deer with forage and songbirds with seeds.

It is because of excellent habitat that hunters have a chance to bag a few birds here in the fall or that deer can frequently be seen by picnic goers. This habitat has attracted songbirds for bird watching and produced fish for catching. Fox, beaver, raccoons, opossums, turtles, and frogs have made this area home. Last year, a pair of Canada geese even nested on a platform specifically put on the pond for them. It was quite a treat to drive up and see mom, dad, and several young goslings swimming on the pond.

Next time spring fever strikes or walls seem way too confining, take a drive south of Massena and visit the Nodaway Wildlife Area and all of its inhabitants.

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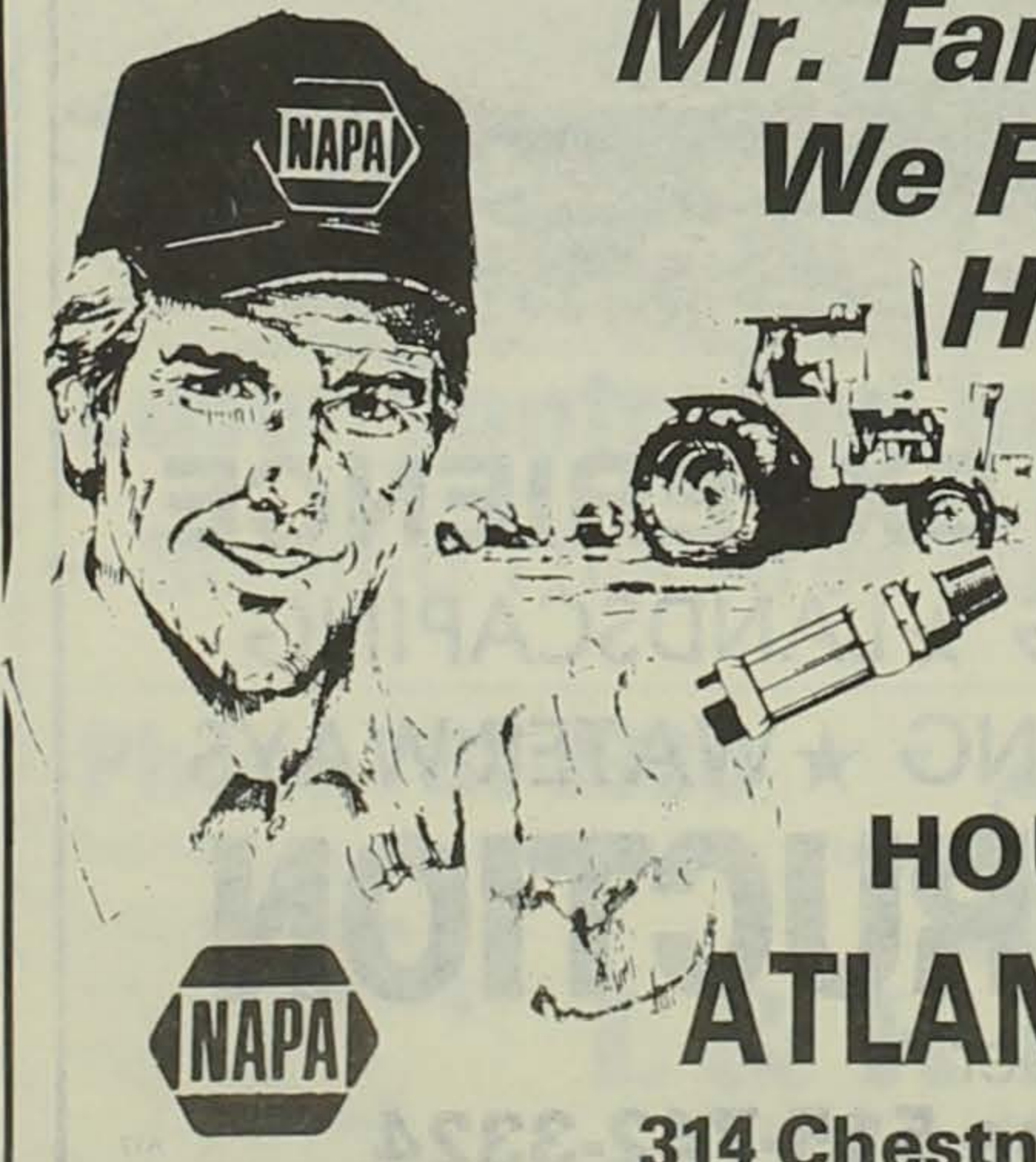
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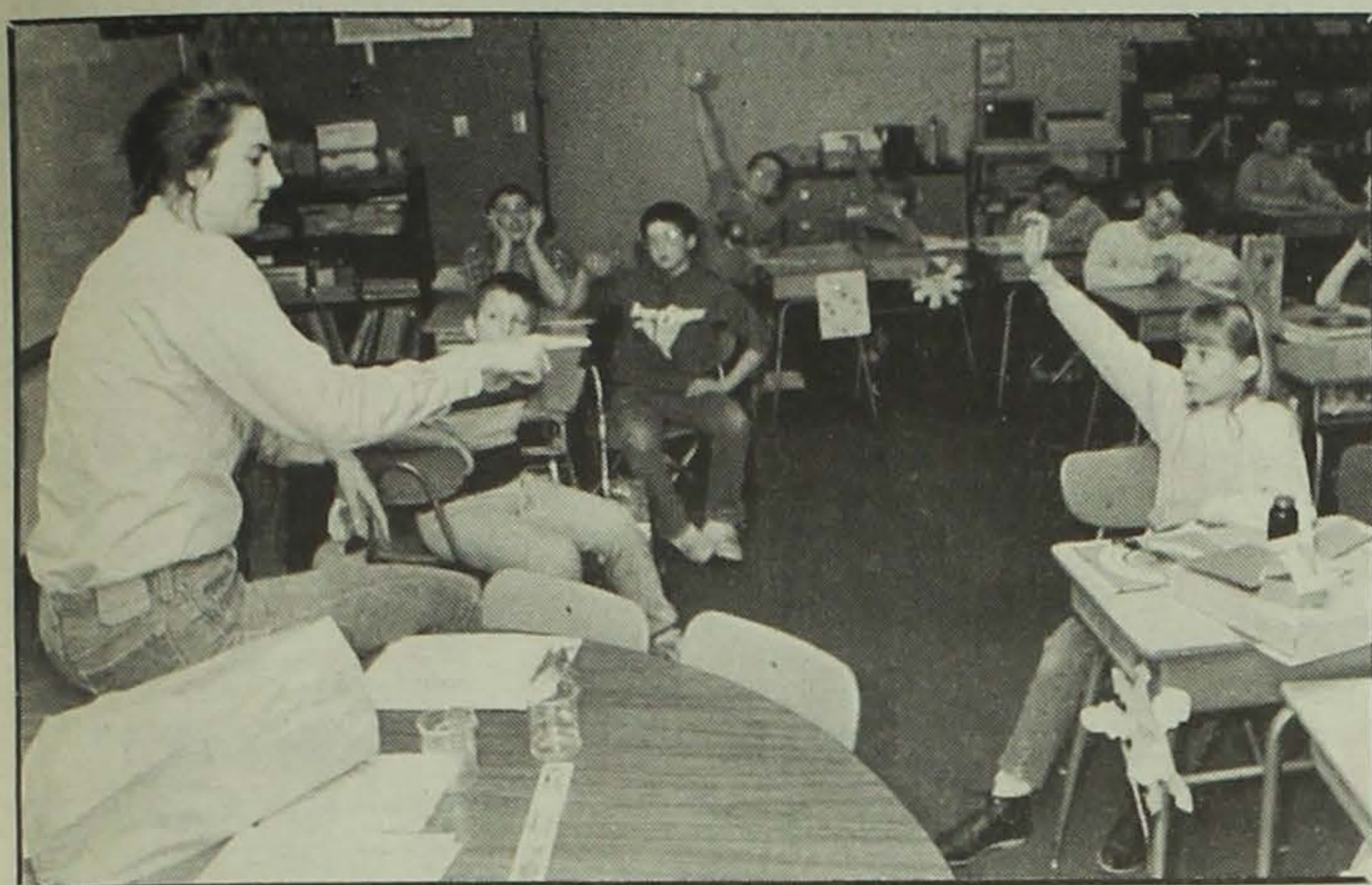
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Atlantic Times Photo/Gregg Knowles

CONSERVATION STARTS HERE. Melanie Hayner asks questions about water to Mrs. Henderson's fourth grade class in Cumberland.

Soil conservation begins in the classroom

By MARIE SUHR

The Cass County Soil Conservation Service is at work in the classrooms of the county through the efforts of naturalist Melanie Hayner.

A little known but very important part of the SCS is the Cass County Environmental Education Committee, which is a cooperative effort between the Soil Conservation District and the Cass County Conservation Board.

Hayner said the committee was formed in 1976 for the purpose of judging the SCS-sponsored conservation poster contest, and the 6th grade workbooks which were provided as a supplement to the classroom conservation curriculum.

They later branched out into classroom and public education to make people more aware of the environment, soil conservation, water, wildlife, and plants.

There are eight active members on the committee, which is made up of all volunteers from various walks of life who share an interest in conservation.

According to Hayner, "The lack of care and concern for our earth has rendered our water and air supplies, in some cases, unfit to use. Our soil has become weary and eroded."

One solution to the problems is working in Cass County: environmental or conservation education is provided to the citizens through a variety of activities and programs, she said.

They stress the education of children, because they are the hope of the future, and many of the activities offered by the board are for children and schools.

Topics may vary from water pollution to habitat to reptiles to animal tracks.

About 15 different programs are now available to the schools of Cass County. They include: The Food Web, Bird Beaks, All About Snow, Animal Tracks, Crazy About Insects, Vertebrate Grab Game, The Lorax, Monarch Butterfly Tagging, Endangered Species, How Animals Prepare for Winter, For the Birds, Wildlife Management, All about Weather, and Nature Hikes. The programs are geared for a variety of age

groups ranging from kindergarten to sixth grade.

As naturalist for the Cass County Conservation Board, Hayner, who chairs the education committee, presents the programs at the schools and conducts field trips, including a spring Conservation Day for fifth graders of the county at Cold Springs Park near Lewis.

At the park, nine stations are set up so the children can visit each one, discovering something different at each stop.

Some of the things they can learn about are: fish cleaning, water quality, soil, soil erosion, boating safety, and nature hiking.

Other field trips are made to Turkey Creek Wildlife Area and Lake Anita.

In the fall of the year, Hayner visits all of the elementary schools and provides them with a list of available programs. She also does programs for clubs and organizations upon request.

Hayner grew up in the north central Iowa town of Klemme, and graduated from Simpson College with a degree in environmental studies.

She does volunteer work with the YMCA, coaching fourth-, fifth-, and sixth-grade co-ed basketball. She said she will also be coaching a softball team this summer.

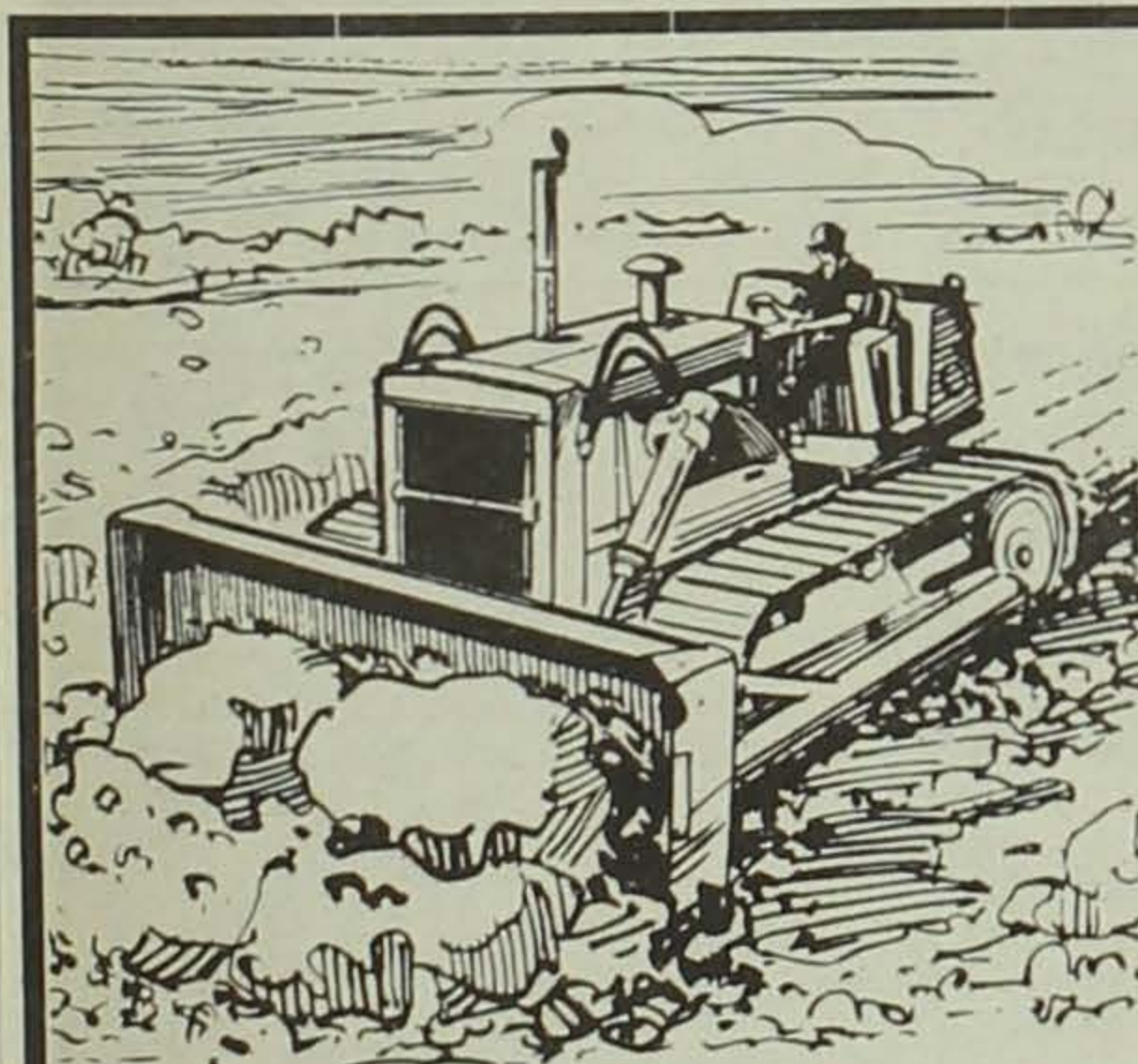
The active Hayner enjoys racketball, volleyball, tennis, and other sports, especially the outdoor variety, and loves camping and fishing.

Before coming to Atlantic, she worked for the Department of Natural Resources in Des Moines.

She said she loves her job and working with children, but would also like to create more of an awareness with the general public.

She hopes to expand beyond the fifth- and sixth-grade education to include the fourth-grade and citizens of the county.

Hayner said if anyone is interested in serving on the Education Committee, they meet once a month but not during the summer, and can contact her at the Cass County Conservation Commission, 243-3542.



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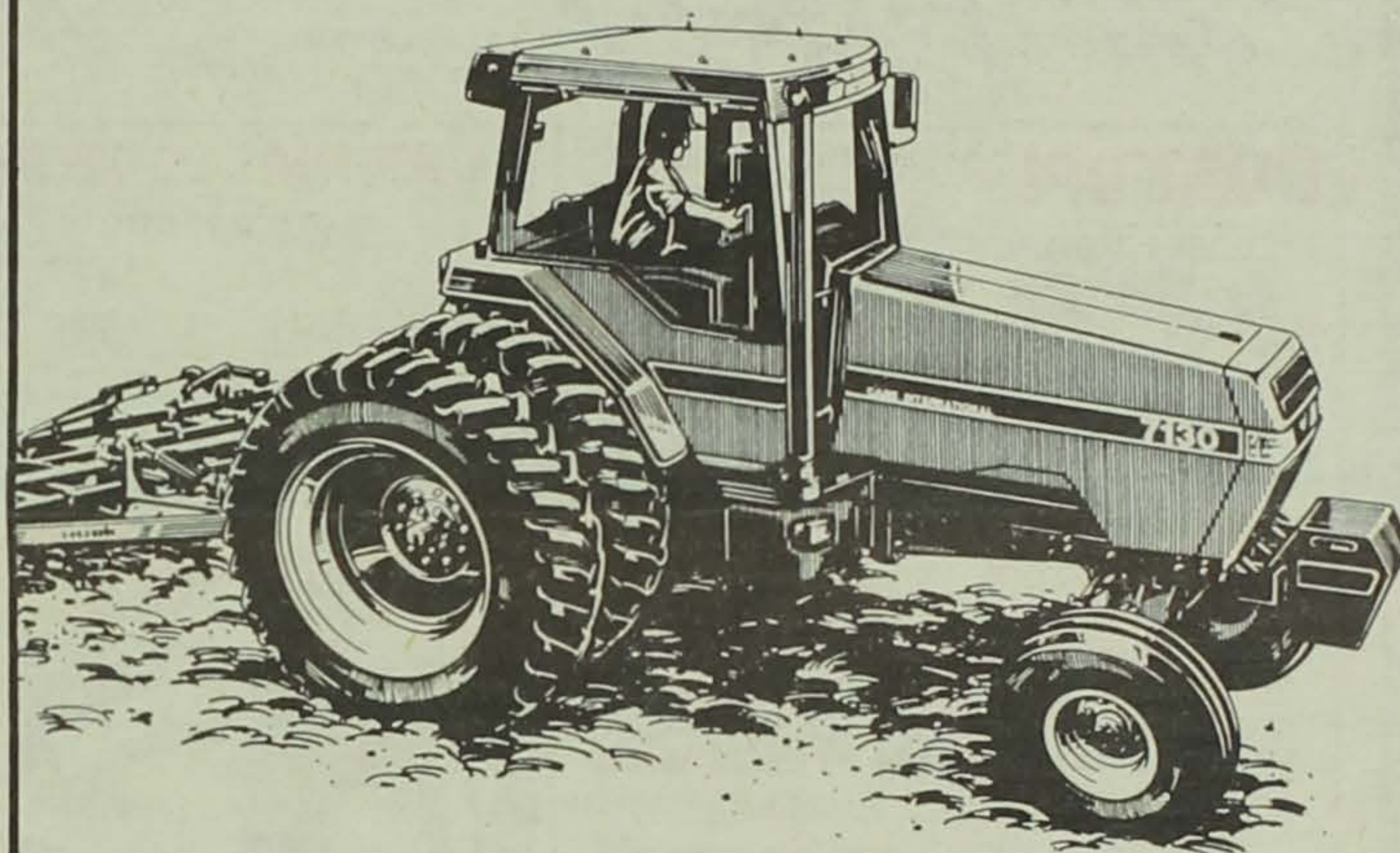
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P195 75R14	WS	\$47.50 ea.	950R16.5 All Season WL	\$81.72 ea.
P235 75R15 4-ply		\$59.95 ea.	P265/75R16 6-ply WL	\$83.95 ea.

All season white letter. Other sizes comparably priced.

TRAXX® WS

P155/80R13 WS	\$34.95
P165/80R13 WS	43.95
P175/80R13 WS	48.54
P185/80R13 WS	49.95
P185/75R14 WS	53.35
P195/75R14 WS	56.95
P205/75R14 WS	57.06
P215/75R14 WS	59.50
P225/75R14 WS	61.79
P205/75R15 WS	59.75
P215/75R15 WS	61.77
P225/75R15 WS	63.95
P235/75R15 WS	68.40

Computer Balancing Available!

**Firestone
GUIDE GRIP HD 4 RIB TB.**

11L x 15 GG HD 4 Rib 6-Ply TB.
\$77.95

1000 x 16 GG HD 4 Rib 6 Ply TB
\$84.95

1100 x 16 GG HD 4 Rib 6 Ply TB.
\$99.95



**TRACTION
FIELD & ROAD™**

- A replacement tire to compare in performance with many higher priced tires.
- Features our famous 23° bar angle tread.
- Dual Sup-R-Tuf rubber compounding.

13.6x38 Traction Field & Road 4-Ply	\$188.95
15.5x38 Traction Field & Road 6-Ply	\$249.95
18.4x38 Traction Field & Road 6-Ply	\$366.95

Buy now
5 year Road & Field Hazard Warranty.

See our complete line of tractor rears — all low priced.

Light Truck Sale
JETZON

LAND ROVER A/T RADIAL LT

P215/75R15 RWL 4-Ply	\$63.95
P215/75R15 RWL 6-Ply	81.49
P235/75R15 RWL 6-Ply	86.95
P235/85R16 BLK 10-Ply	110.65
950R16.5 BLK 8-Ply	112.11

JETZON

REVENGER RV RADIAL

HR-78-15 JET RV OWL LRC	\$ 83.96
LR-78-15 JET RV OWL LRC	89.77
950 R-15 JET RV OWL LRC	88.87
10 R-15 JET RV OWL LRC	96.78
1250 R-15 JET RV OWL LRC	110.56
1150 R-15 JET RV OWL LRC	102.65

Includes Road Hazard, Workmanship and Material Warranty

Wide Flotation & Implement Farm Tires

Low priced farm tires specifically built for the free-rolling wagon and farm trailer wheels.

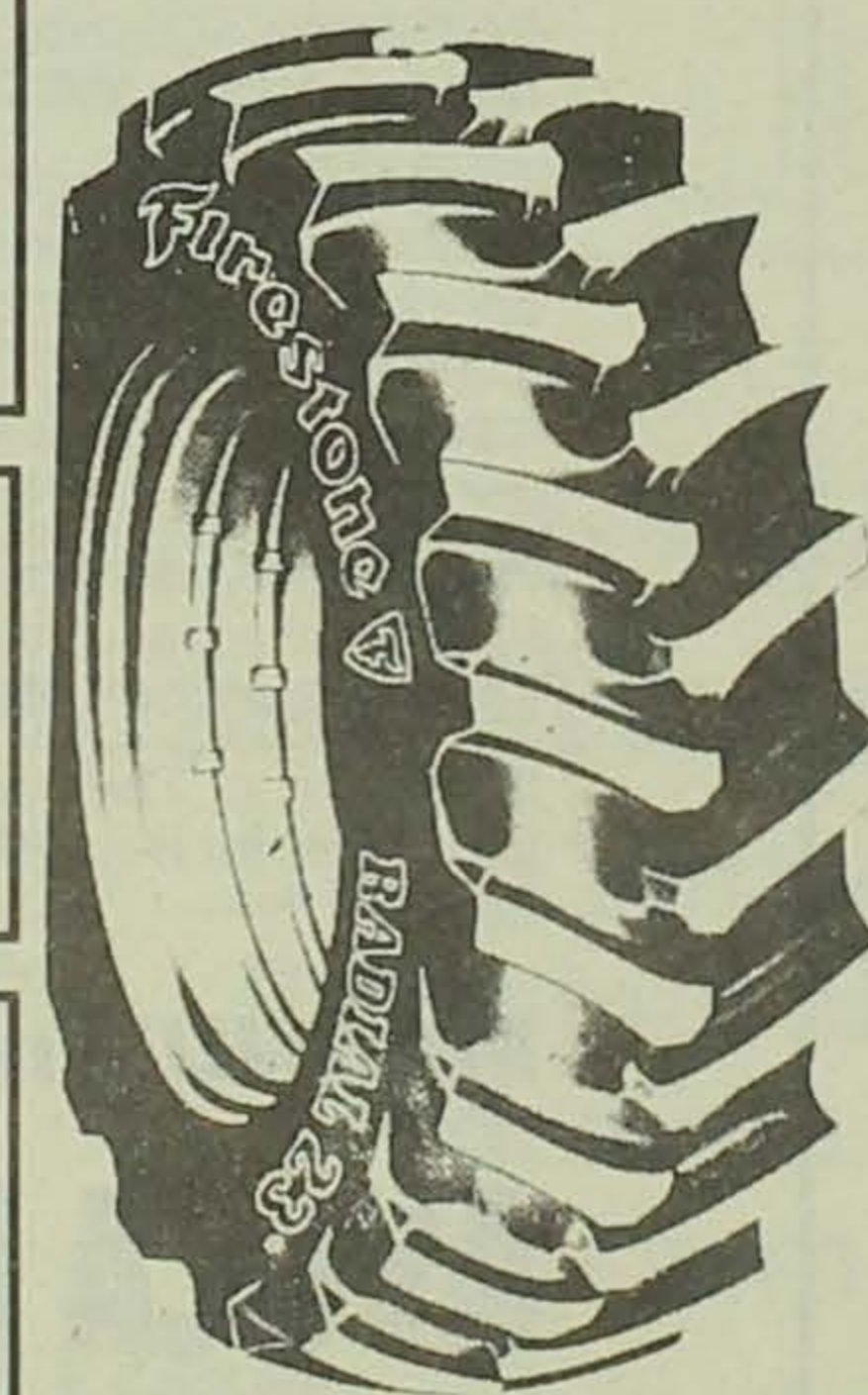
9.5Lx14 6-Ply	\$46.90
9.5Lx15 6-Ply	\$47.95
11Lx15 8-Ply	\$49.95
12.5Lx15 8-Ply	\$69.95

Fast On-The-Farm Tire Service

Our fully-equipped farm service truck brings you fast on-the-spot tire repairs, replacements and hydroflotation WHEN and WHERE YOU NEED IT.

90 DAYS SAME AS CASH

on revolving charge at Firestone stores and many Firestone dealers. Minimum monthly required. All finance charges refunded when paid as agreed. We also honor Visa • MasterCard • Diners Club • Carte Blanche • American Express. Prices and credit plans shown are available at Firestone stores. See your independent Firestone dealers for their prices and credit plans. Stores and dealers are listed in the Yellow Pages. If we should sell out of your size, we'll give you a "raincheck" assuring later delivery at the advertised price.



RADIAL 23°

You know what Firestone 23° bias ply tractor tires can do. Think what our new RADIAL 23° will do! Compared to our All-Traction Field & Road 23° bias tractor tires, our new Radial will give you:

- More horsepower transfer to the ground
- Less slippage
- Longer tread life

Radial body plies plus four rayon stabilizer belts

Let us show you this great new RADIAL REAR

184RX38 ★
While Supply Lasts—1 Star

JETZON ALL-SEASON INNOVATION II

P155 80R13 WS	\$33.95
P165/80R13 WS	39.59
P175/80R13 WS	41.03
P185/80R13 WS	44.17
P185/75R14 WS	46.24
P195/75R14 WS	49.36
P205/75R14 WS	51.23
P215/75R14 WS	53.16
P205/75R15 WS	52.64
P215/75R15 WS	54.03
P225/75R15 WS	55.85
P235/75R15 WS	57.71

Includes Workmanship and Material Warranty and also Road Hazard Warranty

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