

The year . . .
 chief plow and offset disk are still popular among conservation tillage implementers. These implements will leave and incorporate crop residue rather than bury it, thereby which has a significant soil conserving value.

No-till has been the most effective of all conservation tillage methods. This is only logical as all the crop residue is left on the soil surface as a protective cover. Be sure to look closely at the pictures of John Garner's no-till field and conventionally planted field in this issue. Regardless of the type of conservation tillage implement you use, the effectiveness of reducing soil erosion increases directly as the percent of surface residue cover increases. So why do many farmers buy big expensive so-called minimum-tillage implements only to take pride in burying the residue with it? These implements are never the less improvements over the traditional plow. Spraying of herbicides and pesticides, commercial aimed at reducing soil erosion. Now the graph comparing tons of soil lost for a given acreage with the varying amount of corn residue left on the surface. (Fayette County's rainfall factor and our practice soils or Kenyon are exemplified in this graph.)

Terracing and conservation tillage aren't the only practices that have been used to dramatically control farming. The easiest practice for most farmers to apply because there is no capital value needed, no equipment required, no money cost, yet the soil saving effectiveness is great. Depending on the steepness and length of slope, it can reduce soil erosion by as much as 50 percent.

Fall is good time to work on pastures
 AMES — Early fall is an excellent time to work on pastures for growth and soil conservation. Pasture improvement is also encouraging — this is the best time to plant fall-grazing by applying nitrogen on grass pasture and early fall is also a prime time to go after weeds and brush, according to Stephen Barnhart, Iowa State University extension agronomist.

Pasture grazing capacity increases when weeds are removed because livestock graze more uniformly and waste less forage.

Clipping, eliminates seed production in some late-flowering weeds and weakens perennial broadleaf weeds, making them easier to control next year.

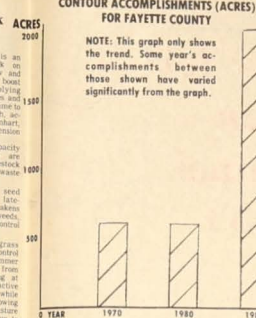
Fall spraying of grass pastures with 2.4-D can control weeds that start to late summer and some that regrow from earlier clipping. Applying at least 1 quart of 2,4-D per acre will control most weeds. (2,4-D is a potent active ingredient.) 2.4-D per acre while the weeds are actively growing controls many common pasture weeds. Weeds can continue to grow as late as October.

Personally very optimistic about the future in soil conservation, not as much because of the graph and statistics we have but primarily because I sense a major movement in the public's attitude. This is the most important factor of all.

WOOD CHIP ENERGY
 NEW YORK (AP) — Cutting all production by making efficient use of wood waste has enabled the paper manufacturing industry to exceed its national energy efficiency goal, reports Energy User News.

By using such wood waste products as wood chips and bark, the publication says, the industry reduced its energy use by 46 percent between 1972 and 1982, while increasing pulp paper and paper board production by 13 percent.

The industry requires vast quantities of wood chips and bark, which are produced in large quantities by the pulp and paper industry, including pulping and drying.



CLARA TIPTON III — Belva Board of Directors is the clerk. (Tipton III with the SCS district office in West Union.)

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Tax exemptions in slough bill

By Jay Carter
 Soil Conservation
 According to Jay Carter, Soil Conservation, the Soil Conservation Service (SCS) has approved a bill that would allow owners of agricultural land to deduct the cost of certain conservation practices from their federal income tax. The bill, which is currently being considered by the House of Representatives, would allow a deduction of up to \$10,000 per acre for the cost of certain conservation practices. The bill would also allow a deduction of up to \$10,000 per acre for the cost of certain conservation practices. The bill would also allow a deduction of up to \$10,000 per acre for the cost of certain conservation practices.

No-interest loans available for farmers

Participating soil conservation districts are now accepting applications for no-interest loans for the construction of permanent soil conservation practices. Landowners can borrow up to \$10,000 at no interest for up to a 10-year period. Loan funds received may not be used in combination with any other public cost sharing or incentive program for soil and water conservation practices. To be eligible, a landowner must have a net worth less than \$100,000, be able to secure the loan, and be capable of repaying the loan in equal annual installments. For the construction of permanent soil conservation practices, the 1981 Section of the 1976 National Agricultural Act authorized the Soil Conservation Service to provide \$1 billion for this year and next. To be eligible, a landowner must have a net worth less than \$100,000, be able to secure the loan, and be capable of repaying the loan in equal annual installments. For the construction of permanent soil conservation practices, the 1981 Section of the 1976 National Agricultural Act authorized the Soil Conservation Service to provide \$1 billion for this year and next.

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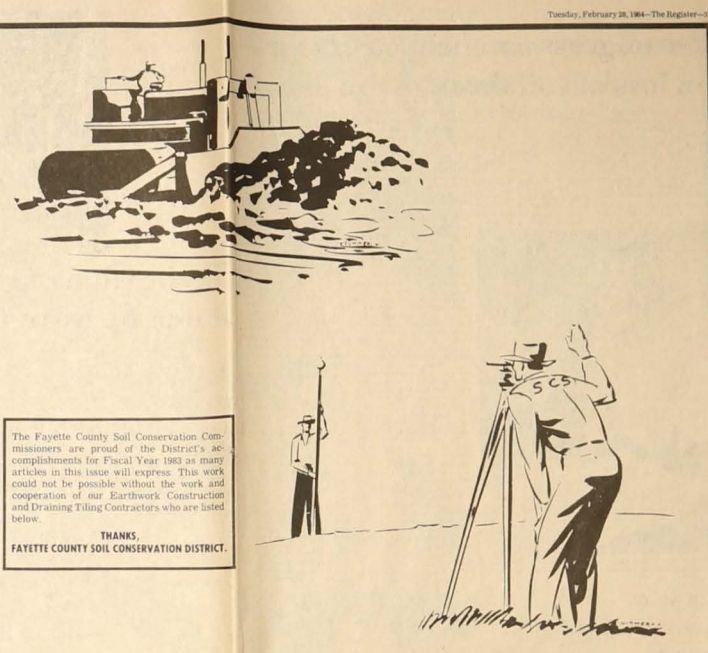
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First Iowa 2000 plan completed

West Union, Ohio. I began to notice some farmers were contouring, strip cropping, and planting wide grass waterways. They recognized that each part of their farm had specific uses and that it was better that they had land that required careful management. Their farming objectives were to produce a family income and to leave the land in good shape for their children. They were in harmony with nature.

No one seemed concerned about anything except increased production. Sure, there were responsibilities of keeping tight and legal fences, weed laws to comply with, containing your bull from the neighbors, but that was all. The idea of receiving permission to torch

I soon learned I could eliminate weeds and grass with the herbicide. I could also eliminate the brush and shrubs for wildlife. I think many farmers have overlooked timber management as a profitable alternative.

for conservation

to get my sense of values in order and practice soil stewardship? Why didn't the chemical companies inform that quack grass had a beneficial side in holding my waterways? Why didn't the engineers of new farm equipment take the lead

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be er dies	self-centered attitude characterized by the phrase "dirt cheap." This apathy led to the rape of the land and slaughter of our woodlands.	'57 JD 620, PS, narrow front, good runner '67 JD 4070 Diesel, shop Morsey Ferguson 2805 w/axle, 1900 hours '80 DEUTZ w/axle FWD, 1450 hours JD 4420	\$1,750 \$8.90 \$19.90 \$29.90 Coming
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begin feeling guilty about taking all I could and returning nothing for future generations. I was fighting against Mother

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Cropland eroding faster than soil regenerates

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NO-TILL MEETING — The Fayette County No-Till Club, shown at a session at Upper Ford in photo at left above, now numbers more than 100 members. About 50 of them are shown listening to a presentation by Ernie Bohn (shown in photo at right above) well-known speaker, author, farmer, who promotes

ridge-till systems of planting corn and beans, a system that leaves all previous crop residue on the surface and between the rows. He then plants the crop on a ridge where soil is warmer and firmer in the spring. He previously was a district conservationist for the SCS and encourages planting on the contour.

IONS OF TROUBLE — This display at the Fayette County Fall show is in a much visible manner the magnitude of the soil erosion problem in the county. Spread over an acre, this amount

and would be to layer the thickets with a sheet of paper. When wind reaches freeways and 4' ditches, it becomes a wind tunnel. Recently the county has charged landowners with the cost of reclaiming their soil and 4' ditches, where even a small wind would cause erosion. The county has a 100-acre erosion was found. County-wide, the average soil loss is 10.5 tons per acre per year. At this high rate, many soils will have a serious reduction in productivity in less than 40 years.



FLAT EROSION — Who says the flatter prairie soils don't erode? RS technician Wally Orley is shown in photo at left above standing in a gully. This field averaged three to four percent slopes and has eroded to the unproductive till layer in many areas. Terraces were constructed here to solve the problem. The rock or "prairie band" (photo at right above), is more evident that the surface layer of the Kenyon soil is completely gone.

Conservation award presented



STRIP CROPS — Contour strip crops on the Charles Jacobson farm. "It's a lot better than having the cattle feed you mud as well as the hay," he says. "You have it protected, your row crop land while it is growing. For the winter it is bedding you could make more money raising the cattle over some years." Charles doesn't waste time complaining about government policies. He manages his own affairs and is doing quite well.

Conservation recreation at Volga Lake project

[illegible]

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