

S O I L and W A T E R



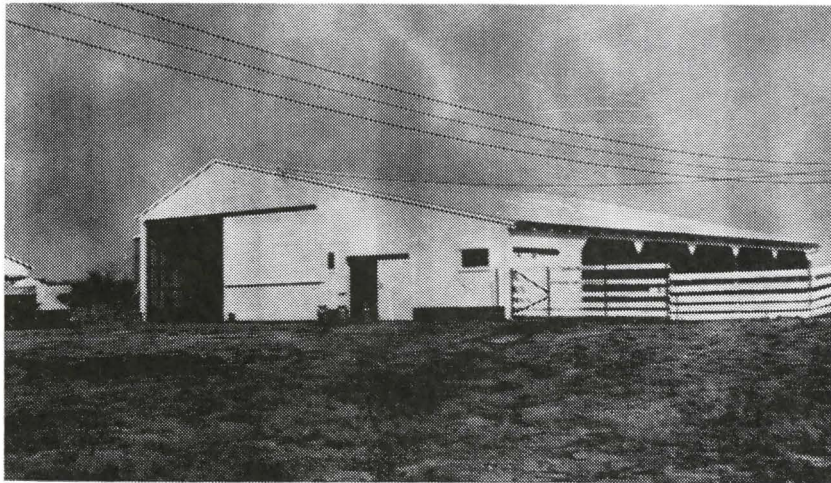
Official Publication of the Iowa Association of Soil District Commissioners and the Iowa State Watersheds Association



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March-April
1961

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Joe O'Hara, President of the Iowa Association of Soil District Commissioners Inc., Sheldon, Iowa

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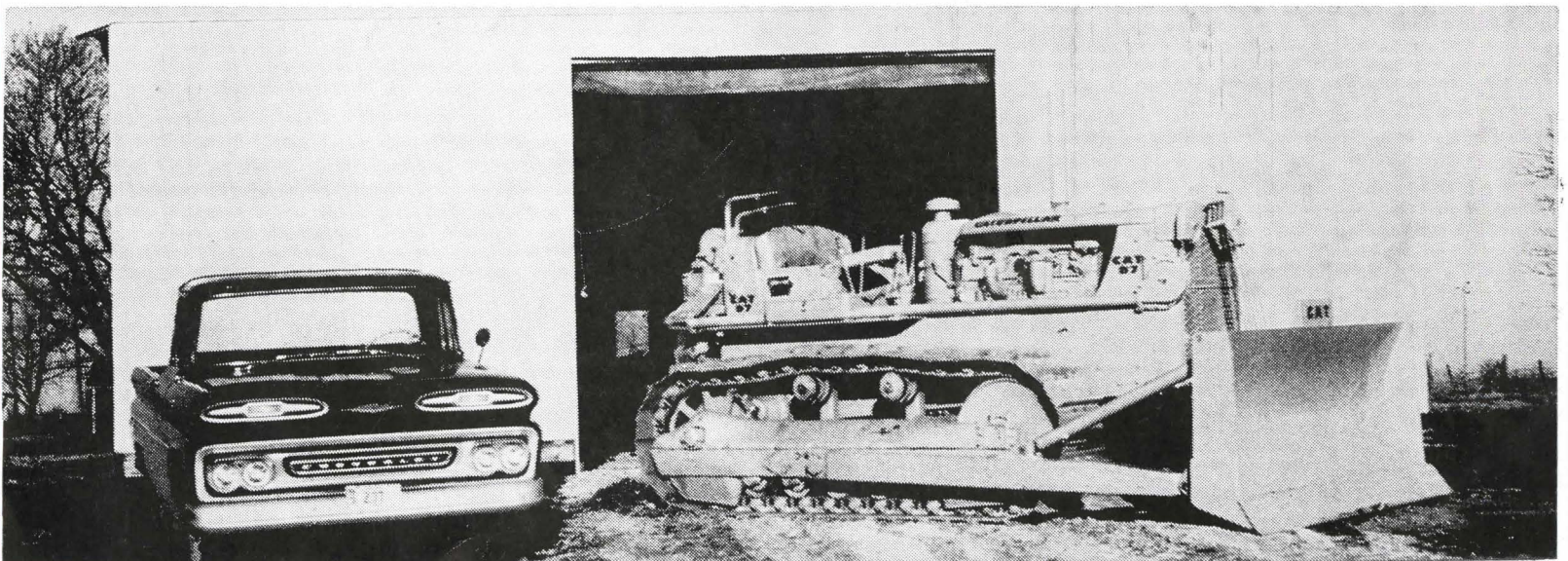
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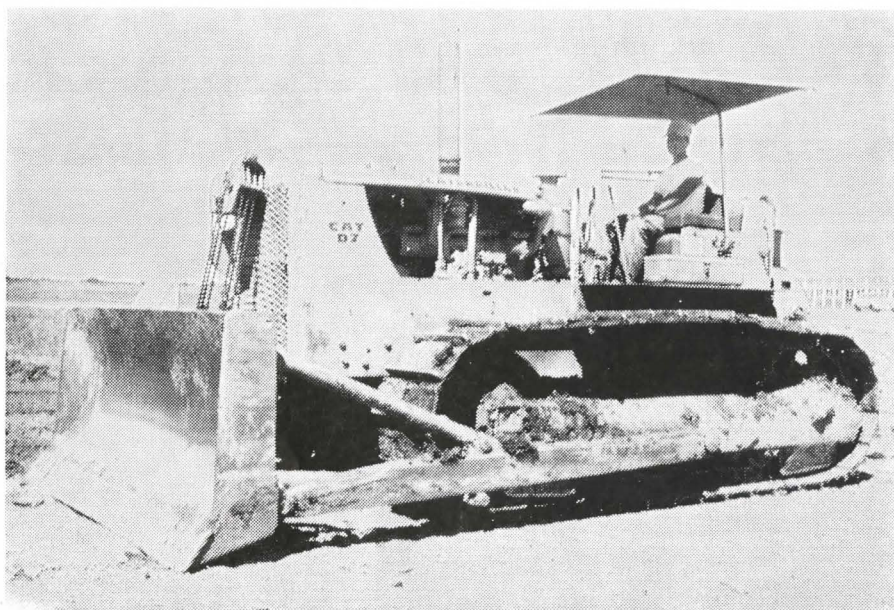
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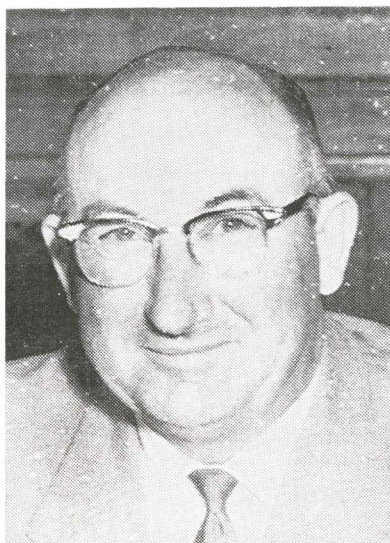
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PRESIDENT'S CORNER



JOE O'HARA
President, I. A. S. C. D. C.

O'HARA'S NOTES

We are all very happy with the approach of Spring. All around us we see that what seemed to be dead is alive again. The birds are coming back, the birds are singing, the grasses are becoming green, and all nature prepares to take on a newness of spring.

We rejoiced in Easter time because it makes us think of our Lord and Savior Jesus. We rejoice when we remember His loving life and how He taught us, how His spirit would never die, and life itself, together with His spirit is living more than ever.

Those of us who care for, and work with Soil and Water have

accepted that particular way of life. Many of you have been pursuing this path for many years, some more, some less, but everyone in his own way has paid a price in work and in sacrifice to achieve our goals.

By doing so, we have accepted the responsibilities which accompany this way of life.

We as commissioners in our Soil Districts, together with technicians, and all cooperating agencies are eagerly looking forward and analyzing our work load in way requests for assistance that have come into our hands the last few weeks.

Our Soil Conservation Districts have the responsibility and the know how to get the job done in the coming busy months ahead.

Those of us who had the privilege of attending National Association Meeting of Soil District Commissioners cannot help but come away with the realization of many varied problems in different sections of the United States. The western section's need for water for all purposes to continue to expand their economy, the middle west the control, retarding of flow with watershed, are utmost in our thoughts and the eastern section of our country, the need of water for increasing population and factories that are expanding in all areas.

You could not help but realize the sincere desire on part of the Soil District Commissioners, to provide the leadership, and know how that is so necessary to have this national program of soil and water conservation administered through local self-governing Soil Conservation Districts.

It certainly is an inspiration to see 1800 to 2000 District Commissioners, and those who work with them, as well as business and manufacturing concerns all talking and trying to arrive at satisfactory solutions to our problems in all areas of our country.

We have completed in Iowa our regional meeting with all cooperating agencies and groups who work with us in Soil and Water Conservation through our Districts.

An average of 58 to 85 people attended each regional meeting.

Our program discussion centered around the theme "Program planning for future Sixties."

I think it is a real source of our strength here in Iowa, where all agencies and groups can come together in a meeting and develop new ideas and plan for our work into the coming months and years that lie ahead. I certainly want to thank in behalf of your Association of Soil District Commissioners and those who so closely worked with us, our appreciation

Appanoose County Soil Conservation District Annual Report

JANUARY

U. S. Fish and Wildlife Service representative Wallace R. Newcomb made inspection of eleven farm ponds which had been stocked with federal fish in 1957.

Clifford Singley, Commissioner, attended Annual Soil Conservation District Short Course at Ames, Iowa.

Seven night 4-H and Watershed meetings were conducted by William Stark, SCS, and Harold Holder, County Extension Director.

Regular Commissioners meeting was held the 26th. A contractors meeting was planned for February.

FEBRUARY

Regular Commissioners meeting was held the 23rd. Commissioners moved to sponsor F. S. C. plantings of trees and shrubs.

Joe Beer, Centerville, and Ronald Turk, Seymour, were named assistant commissioners for 1960.

Eight night watershed meetings were conducted by Stark, SCS, and Holder, County Extension Director.

A contractors meeting was held the 29th with fifteen contractors attending. A list of all contractors was compiled and is available for any farmer inquiring at the District Office. Harold Holder, Extension explained earthmoving deductions for farmers income tax. Dean Schlapia, FHA, explained loans available for soil and water conservation work, and Loyd Carter, ASC, explained CMS contracts and vendors responsibilities. SCS Work Unit Staff and Area Engineers gave current specifications for practices.

MARCH

Clifford Singley, Commissioner, and William Stark, SCS, met with County Conservation Board.

Lyle Peterson, SCS, spoke at the Franklin Township 4-H meeting and showed slides of soil and water conservation practices.

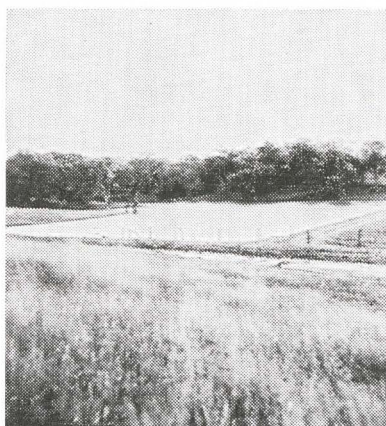
Five hundred copies of "Dennis the Menace and Dirt" were ordered by the District and distributed to 4-H Club boys and girls.

There were 55 new cooperators this month; an all time record for one month.

Clifford H. Walker, Mystic Iowa, was elected as Commissioner to replace Frank M. McCabe, Numa, Iowa.

—Continued on page 12

The Cover



Beautiful scene on the cover is a structure on the Arthur Jay farm in Appanoose County. This type structure serves to prevent gully erosion, provides livestock water, recreation, as fishing and swimming, and beautifies what once was an ugly gully. This can be done on YOUR farm.

Iowa Soil and Water

for all your efforts to evaluate our programs of work, both present, and as we project into the future.

The contributions to Soil Conservation Society Building Fund for a permanent home at Des Moines, Iowa, continues to come in from Soil Districts, Commissioners, and other interested people.

Let's send in our contribution as rapidly as possible and help our friends get started on building as soon as possible.

We are still working and patiently waiting for our bills and appropriations to be acted upon by legislature this session. I appreciate the fine help you commissioners and our friends are giving to our efforts along these lines.

Congratulations to Appanoose Soil Conservation District for your efforts and fine cooperation you have given, to be featured in this issue of Iowa Soil and Water Magazine.

Best of luck in weeks ahead in the application of our know how in Soil and Water Conservation.

**PROTECTING OUR
SOILS IS
PROTECTING LIFE
ITSELF!**

RALPH MCGILL'S HONORED AT DINNER FOR 94 GUESTS

Southwest Iowa Soil Conservation enthusiasts turned out en masse Friday night to honor Mr. and Mrs. Ralph McGill.

The 7:00 o'clock dinner at Berning Cafe was served to 94 people representing the Soil Conservation Service, County Extension, A S C., F H A, Agricultural Agencies and Soil District Commissioners from Cass, Union, Adams, Taylor, Montgomery, Mills, Fremont, Ringgold, Page and W. Pottawattomie Counties.

McGill, area conservationist for the Soil Conservation Service in Shenandoah 2½ years will leave April 15, for Columbia, Missouri where he will serve as assistant state conservationist of Missouri.

Farewell tributes were paid McGill by Frank Mendell, state conservationist and Dale Scott, assistant state conservationist. SCS of Des Moines; James Ward, Shenandoah Chamber of Commerce; Vern Fisher, Shenandoah Rotary Club; Tom Beavers, assistant farm director of KMA; George Hosfeldt, Region 3 director of IASDC, Massena; Don Anderson, a past president of IASDC and Joe O'Hara, president of IASDC.

A gift was presented to the McGills from the group.

Arrangements were under the direction of the Page and Taylor County Soil districts.



Meet Iowa Commissioners--- Conservation Minded People From Appanoose Soil District



Appanoose County SCD Commissioners. Left to right: Arthur Streepy, Chairman, and Clifford Singley, Commissioner. Not present, Clifford Walker.

ARTHUR M. STREEPY Chairman

Art has been a District Commissioner for about 14 years. He and his wife, Halcyone, have two children, Mike, who will graduate from Centerville Junior College this spring, and Rae Lacene, who attends grade school.

Art owns and operates a 120-acre livestock and grain farm in Pleasant Township. Conservation work done on his farm includes terracing, grassed waterways, contouring, and two ponds.

Art has been a member of the school board for many years, belongs to the Masonic Lodge, and is affiliated with the Cincinnati Christian Church.

WILLIAM C. SINGLEY District Commissioner

Clifford has been a District Commissioner for the past three years. He has been in conservation work since C.C.C. days, being one of the first in Washington Township to comply.

Clifford and his wife, Dora, live one-half mile north of Moulton on land his grandfather homesteaded from the Government in 1857. In all, he owns and manages 600 acres of land. As he has always been interested in conserving and improving his land, he has used the following practices: terracing, contouring, sodwaterways, pasture improvement with birdsfoot trefoil, and has nine livestock water ponds and two erosion control structures. Livestock raised on the farm includes 80 ewes, Black Angus beef cattle, and a laying flock of 450 hens.

The Singleys have five children: Richard, who is married and lives in Moulton; Roland, who is married and lives and operates 320 acres of the Singley land; Wanda, who is married and lives in Saunemin, Illinois, where her husband teaches in the high school. Twin daughters, Jean and Joan, are employed in Des Moines.

Clifford is an active member of the Christian Church in Moulton where he is serving as a Deacon, Chairman of the church board, and as a trustee.



CLIFFORD WALKER
Commissioner

Clifford, who lives north of Mystic, Iowa, has been a District Commissioner since March, 1960. He and his wife, Evalee, have three children, Barbara, who is married and lives at Denver, Colorado; Joe, who farms with his father, and Carol, who is a junior in high school.

Clifford farms 710 acres, 413 of which he owns. He began contouring his farm when the practice first started in the county. While part of his farm is bottom land, much of it is rolling, making terraces and sod waterways very beneficial. Diversion terraces, brush removal, and pond building are all used to conserve and rebuild the soil.

Diversified farming is practiced. There is an Angus herd of 100 cows. Between 400 and 500 head of hogs are raised and fed out on the farm. Grain, mostly corn, is grown on 140 acres. Alfalfa is raised also.

Clifford's outside activities include serving on the ASC Township Committee, Walnut Township Trustee, and for several years he has served on the school board. In 1959 he received an award for outstanding soil conservation work from the District Commissioner. He attends the Walnut City Christian Church.

Editorial

Cooperation Needed To Develop Watersheds

By William F. Stark
Work Unit Conservationist

In what small watershed do you live? Does your land drain into the same watershed as your neighbors? What can you do to help promote and conserve your watershed? Most residents of Appanoose County, Iowa can answer questions such as these now that each of the twenty main watershed communities have been delineated, named, accurately measured, and purpose explained.

Since 1955 small watershed communities have been officially recognized by the Appanoose Soil Conservation District as the best, new "vehicle" for group action in soil and water conservation. In that year the District governing body formulated and announced this watershed policy: "In view of the national, state, and local recognition of soil and water conservation practices as also having a basic position in any flood control program the policy of the Appanoose Soil Conservation District in this matter shall be:

1. To reaffirm the original policy of the District in that the planning for and application of soil and water conservation practices are of basic primary importance in their own right.
2. That any flood prevention, retardation, and/or flood control which results from the application of soil and water conservation practices on the land is a vital by-product of the soil and water conservation program.
3. To cooperate with the State and/or Federal governments in carrying out, maintaining and operating any watershed works of improvement authorized by law.
4. To cooperate with local watershed groups, including municipalities, and/or adjoining SCD's, in initiating applications for assistance through available public laws.

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5. To provide to watershed groups the services available through the District with priority being considered according to need."

In 1958 the twenty-six previously formed neighbor farm planning groups, were reorganized into their respective watersheds. In late 1959 the County Farm Bureau and Centerville Chamber of Commerce brought in the watershed evangelist "T Bone" McDonald to speak and immediately thereafter a county-wide watershed committee was formed and officers elected. Since then over forty watershed meetings have been held in Appanoose County. Over half of the small watersheds have duly organized and elected their officers. Moulton Watersheds' Work Plan has been completed, and both of the Iconium and Cooper Creek Watersheds have completed their applications for Federal assistance.

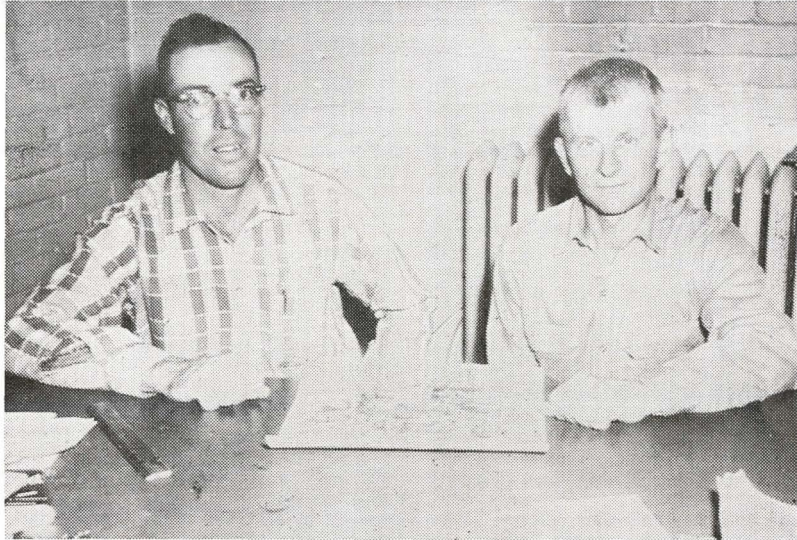
Early in 1961 "T Bone" was called back again. This time by the farmers in the watershed organizations. He was amazed at their great organizational progress in so short a time and gave high praise for such leadership.

This time lets not stop with just an organization. After spinning our wheels for so long in low gear and reverse we became accustomed to the feeling of being stuck. But now that the leadership has pulled enough to move our "vehicle" a bit we've got to keep it in motion by everyone getting behind it and finding a place to PUSH. Every little bit is going to help—terraces, strip cropping or contouring give the biggest boost, they should be placed where their muscle will do the most good. Weak, tired waterways and gullies should be replaced by strong sodded ones that can hold up under strain. Diversions and drainage can help lift the bottomlands up out of their muddy sloughs; birdsfoot trefoil and orchard grass will give us the best traction on the steeper grades; and ponds and structures will let us store up energy for the long haul.

All along this stage of the road there also needs to be continued assistance from the urban cheering section; interest pays dividends. A watershed program in action means a speed up in conservation activities by the farmers and increased financial support from state and federal governments. Conservation contractors benefit directly in construction work; Agricultural business gets a big boost as conservation operations bring in added income. When water-caused gullies disappear, fields become larger and easier to operate. Land values are bound to increase many times the cost of conservation investments.

It is natural to expect, therefore, that as friction-gullies between individuals or groups are smoothed out that our fields of endeavor will expand and become Iowa Soil and Water

Appanoose District Past and Assistant Commissioners



Appanoose County Assistant Commissioners. Left to right: Ronald Turk and Vernon Burger. Not present, Joe Beer.

RONALD TURK
Assistant Commissioner
Ronald helps operate his father's 255-acre farm in Franklin Township.

VERNON (SHORTY) BURGER
Assistant Commissioner
Vernon owns and operates 185 acres in Udell Township.



JOE BEER
Assistant Commissioner
Joe owns and operates 200 acres in Lincoln Township.

CONSERVATION PAYS; ALL WAYS.

easier to cultivate. Our spiritual and human values increase more than property values. And last but not least we can take pride in climbing out of the two ruts of erosion and decay and shifting into high gear on the smooth, solid tracks of community building; rural as well as urban.

Past Commissioners

R. C. WILSON
Past Commissioner
Centerville, Iowa

GEORGE SCOTT
Past Commissioner
Marshalltown, Iowa

FRANK McCABE
Past Commissioner
Numa, Iowa

PAUL STRICKLER
Past Commissioner
(Deceased)

L. B. MONROE
Past Commissioner
(Deceased)

ROBERT BEAR
Past Commissioner
(Deceased)

Watershed Development

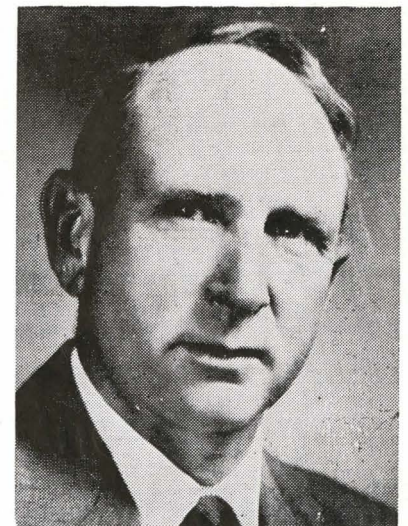
MOULTON WATERSHED

By Doyle N. Anderson Chairman

The Moulton Watershed has progressed farther than any other in Appanoose county. A group of farmers met March 13, 1956 to discuss the need for a watershed west of Moulton. Some of the reasons for developing one were: (1) There was serious land deterioration through sheet and gully erosion, (2) Great damage by sediment to ditches and the Chariton River, (3) Floodwater damage to row crops grown on the floodplains. E. E. Smith, Jr., Area Conservationist, Soil Conservation Service, and local Soil Conservation Service technicians William E. Stark and LaVern Whitaker helped to organize the watershed area under the Watershed Protection and Flood Control Act, Public Law 566.

The officers are: Doyle N. Anderson, chairman, J. F. Daniels, secretary, and directors are: Glen Jacobs, Stuart Daniels, William C. Singley, Ralph Newcomer, Pierce Appler, Harold Winans, and Glen A. McCullough.

The Moulton Watershed starts on the divide between the Mississippi and Missouri Rivers northwest of Moulton. It includes two



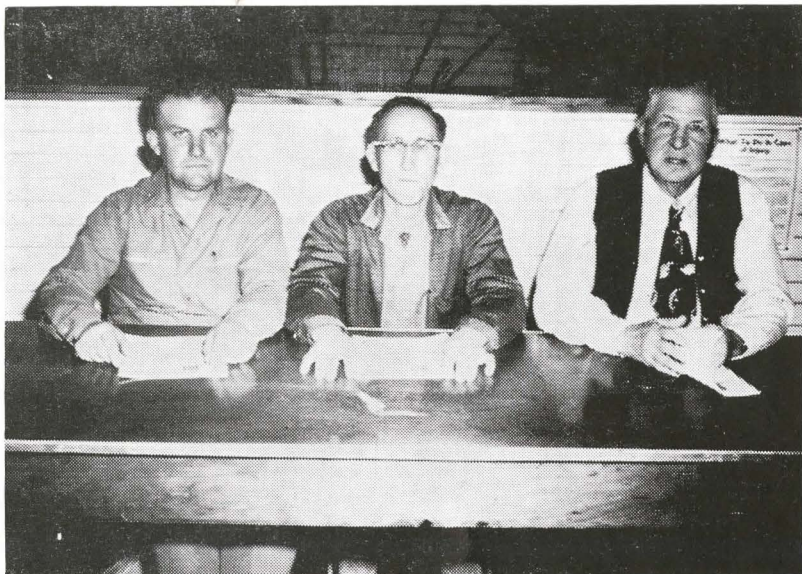
DOYLE N. ANDERSON
Chairman of Moulton Watershed

creeks that empty into the Chariton River. The watershed uplands consist of rolling cropland and steep pasture areas draining into these two creeks. The flat floodplain below this area is used for row crop production.

The total acreage in the watershed area is 7,275 acres. It will have 2,290 acres of contouring,

(Continued on page 16)

Appanoose County A. S. C.



Appanoose County A.S.C. Committee. Left to right: Guy W. Argo, Vice Chairman; Dallas Walker, Chairman, and George D. Lane, Member.

APPANOOSE ASC COUNTY OFFICE

By Lloyd Carter
Office Manager

The Appanoose County Agricultural Stabilization and Conservation Committee and Office Personnel are happy to report the programs and activities for which ASC is responsible and administrators. Appanoose County is a balanced county in production of grain and livestock.

The county committee invites all farm producers, as owners, landlords, operators and tenants to seriously consider participating in any or all of the program and services available under ASC.

There are three major program areas administered under ASC which are as follows:

The Agricultural Conservation Program—This program offers cost-share assistance on soil and water conservation practices carried out on the land according to specifications and require-

ments. In 1960, Appanoose County had 541 farms on which cost-share assistance was made in the amount of \$124,118.45. The county Soil Conservation Service and Forest Service cooperates to full extent with the ASC office and committee with their service and assists the farmers with all practices for which they have the technical responsibility. At present Appanoose County is in a heavy watershed development program.

Price Support Program—This program permits farmers and producers to obtain loans on eligible grain produced by them which may be stored on the farm or in warehouses. This permits marketing at later dates after harvest when prices are usually higher or the grain can be redeemed and used for livestock feed if needed.

Farm storage facility loans are available to farmers for erecting storage for grain on the farm.



Appanoose County A.S.C. Office Personnel. Seated left to right: Lloyd N. Carter, Office Manager; Betty M. Brown, Administrative and Price Support Clerk. Standing left to right: M. Karen Archibold, AA. MQ, CR Clerk; Pauline Golick, ACP Clerk; Patricia A. Clemens, Program Clerk.

Loans can be made up to 18% of the cost of the structure for as long as five years at 4% interest. Drier loans are also available.

Wool program—Shorn wool subsidy payments were made to 423 producers in the amount of \$45,236.80 and unshorn lamb payments to 199 producers in the amount of \$4,749.56 for the 1959 marketing year.

Conservation Reserve Program—This program pays farmers for retirement of land from production of feed and grain crops. In 1960 86 farmer co-operators received \$98,944.44 in annual rental payments for retirement of 6,065.2 acres.

The present county ASC committee is composed of Dallas F. Walker, Mystic, Iowa, chairman, Guy W. Argo, Moravia, Iowa, vice-chairman and George D. Lane, Moulton, Iowa, Regular Member.

The personnel of the Appanoose County office other than the office manager, Lloyd N. Carter are Betty M. Brown, Administrative and Price Support Clerk, Pauline Golick, ACP Clerk, Karen Archibold, Conservation Reserve, MQ and AA Clerk, Patricia A. Clemens, Price Support and Wool Clerk, Walter Daniels, Bin Site Superintendent, Gus W. Hiatt, Grain Inspector, Grain Grader and Program Assistant, and George Sidles, Grain Inspector and Program Assistant.

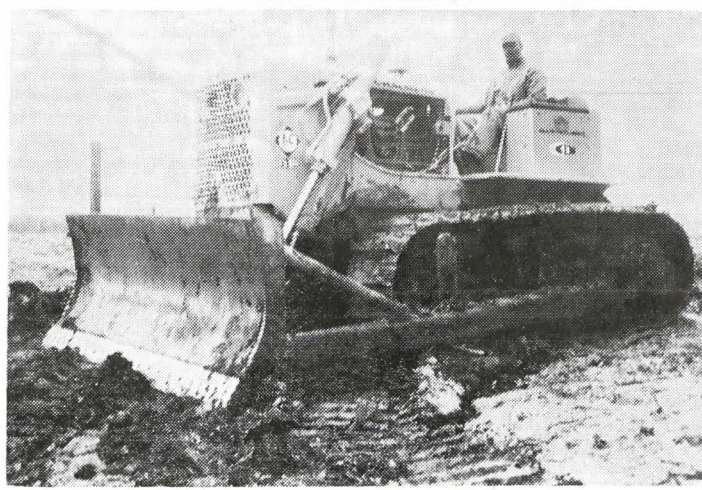
Progress is made in Conservation through the cooperative efforts of all the agencies in the Appanoose Soil District.

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Soil Conservation Service and State Personnel



Joe M. Colgan, Area Conservationist, stationed at Chariton, Iowa, directs the work of the Soil Conservation Service in AREA 10.

SOIL CONSERVATION WORK IN AREA 10

By Joe M. Colgan,
Area Conservationist

The Appanoose SCD is part of Soil Conservation Service Area 10, which is composed of Clarke, Wayne, Lucas, Marion, Mahaska, Monroe, Decatur, and Appanoose SCD's. There are 11 such areas in Iowa.

The Area Staff is composed of two engineers and two engineering aids and two soil scientists and an Area Clerk. This staff provides technical help to the eight soil conservation districts of the area in addition to the SCS staff regularly assigned to the district. I was assigned to Area 10 in August, replacing Mr. E. E. Smith who died last May.

The thing that has impressed me most during my association with you folks in the Appanoose County is your thinking in terms of the "watershed approach" to soil and water conservation problems. You are to be commended. The Appanoose district is pretty well defined into 20 watersheds. The planning is nearly completed on the Moulton Watershed. Interest is high in the Iconium and Cooper Creek. With the application of more conservation practices on the land, these two watersheds should soon be ready to request planning assistance. Interest in watershed work is also evident in the Monroe and Wayne Districts. We are sorry that Bill Stark, the Soil Conservation Service representative assigned to your district was stricken by Iowa Soil and Water



WILLIAM E. STARK
Work Unit Conservationist

a heart attack last December. We will all be happy to see Bill back on the job soon.

Conservation accomplishments in Area 10, this past year have been commendable considering the early winter and late spring of 1959-60. During the period July 1959-June 1960, technical assistance was furnished to 3,300 farmers in the area. Complete conservation farm plans were prepared on 318 farms, and soil conservation surveys were completed on 83,000 acres. Some of the more important conservation practices applied throughout the area during the past year were: contour farming; 8,500 acres; pasture improvement 17,350 acres; erosion control structures 50; farm ponds 387; ponds stocked with fish 490; terraces 166 miles; grassed waterways 495 acres; tile drains 68 miles; open drainage ditches 18 miles, and 70 acres of tree planting. The Appanoose district contributed their share to the above area accomplishments. We hope that as good or better progress will be made during the current year.

**CAYLOR
LUMBER
COMPANY**

PHONE 62
CENTERVILLE, IOWA



APPANOOSE COUNTY SOIL CONSERVATION DISTRICT PERSONNEL. Standing, left to right: LaVern A. Whitaker, Conservation Aid, and Joe R. Luse, State Aid. Seated, left to right: Coleen Hutchison, District Clerk, and Lyle C. Peterson, Soil Conservationist.

AREA SOIL SCIENTIST



Roy W. Smith, Soil Scientist

SOIL SURVEYS IN APPANOOSE COUNTY SOIL CONSERVATION DISTRICT

By Roy W. Smith,
Soil Scientist

A soil survey of a farm or a county gives basic facts about the soils of that particular area. These facts will increase our understanding of the land on which we live and our ability to work with nature. They will aid us in using the land most efficiently, in selecting the crops best adapted to the soils, in the use of fertilizer, and in applying methods for conserving soil and water. A

soil survey provides a foundation for all land use programs.

The scientist who makes a soil survey examines soils in the field, classifies the soils in accordance with facts that he observes, and maps their boundaries on an aerial photograph.

The soil surveyor bores or digs many holes to see what the soils are like. In most soils such a boring or hole reveals several distinct layers, called horizons, which collectively are known as the soil profile. Each layer is studied to see how it differs from

—Continued on page 19

Appanoose County Extension Service



Appanoose County Extension Personnel. Seated, left to right: Betty Pauletti, office assistant; Mrs. Inga O. Eddy, County Extension Home Economist. Standing, Harold D. Holder, County Extension Director.

COUNTY EXTENSION ACTIVITIES

By Harold D. Holder
County Extension Director

The Appanoose County Extension Service cooperates, as do all County Extension units, in a joint informal educational program with the Soil Conservation Service. Not only do they cooperate educationally with the SCS, but all the other agricultural agencies—not only locally, but on a state and national level through Iowa State University and the United States Department of Agriculture.

The extension director serves as secretary to the District Soil Commissioners at their regular monthly meetings. Two years ago the Extension Council chairman, along with the extension director, met with the Soil Conservation Service and other representatives to figure out a land needs inventory for Appanoose County. This needs will serve as a basis for program planning and recommendations within the county.

The fact that all the agricultural agencies in Appanoose County are in the same building, namely the Agricultural Building, makes for closer contact and has also resulted in closer relationship in promoting several phases of the different agencies and reaching more farmers.

The Appanoose County Extension Office has one of the highest number of office callers of any office in this district. A number of the office calls pertain to practices dealing with those the Soil Conservation Service is promoting.

In the winter of 1959-60 the extension director, along with the SCS, undertook a large phase in the soil conservation field, namely watershed programs. In December of 1959 Charles Ballantyne, extension specialist in soil conservation, and Charles Mogged, district extension economist, along with local personnel, par-

ticipated in an endeavor to promote soil and water conservation in Appanoose County on a larger scale. This was done by undertaking a county watershed approach. Mr. Ballantyne presented information relative to the watershed law. Mr. Mogged dealt with information pertaining to the economics of soils and crops.

The Work Unit Conservationist, William Stark, and County Extension Director Harold Holder, worked with the group in their organization. From this developed temporary chairmen in each of the twenty potential watersheds in the county. Throughout the months of January, February and March of 1960 some thirty different organizational and informative meetings on watersheds were held throughout the county. The information was presented by the extension director and work unit conservationist and before the year was completed, nine new watersheds were organized with directors busy taking data from the farms within the watershed. Two watershed groups had already organized on their own. They were the Moulton and Cooper Creek groups. From the temporary and permanent chairmen of each of the watersheds came the formation of a county watershed group with Delmont Moffitt and Paul Moore elected as co-chairmen.

One hundred ninety cooperators were signed up through the efforts of the watershed approach. We can say that the extension service has been involved in one of the largest scale activities in soil conservation since the start of the local district in 1944.

One of the 4-H clubs, the Franklin Farmhands, sponsored a soil conservation contest in their township. The District Soil Commissioners provided funds for awards. Members and leaders ended up with twenty-six contestants out of seventy-five township residents. This contest is going to be sponsored again in 1961. The form used for the contest was worked out jointly with the 4-H leaders, WUC and CED.

Another phase of soil conservation involving the extension service was one in which the Center-

ville National Bank provided funds for the promotion of soil conservation for all 4-H boys in Appanoose County. Here the members participated in the activities, talks, demonstrations, drew maps of their farm and obtained pictures of soil and water conservation needs, along with soil and water accomplishments. Wilbur Rush of the Centerville National Bank, Lyle Peterson of the SCS and Harold Holder of the Extension Service visited the 4-H members' farms whom the 4-H committee had selected as top possibilities. After the farms were visited, an interview was held with each of the boys selected as top award winners in this local event.

The District Soil Commissioners have provided funds for crops judging in the past years. Last year the Appanoose County 4-H crops judging team placed fourth in the state with one member, namely Donald West, placing seventh over all in the state and received a state award to Chicago because of his placing. Also, Donald Hampton was one of the 4-H members from Appanoose County receiving a state award on his crops project and went to Chicago at the same time as Donald West.

Through the combined efforts of the agencies and organizations, a well-rounded and active program in the field of soil and water conservation has been one of which Appanoose County can be proud.

Starvation of
the Soil
leads to
Starvation of
Plants, which
results in
Starvation of
Animals,
including
Human
Beings.
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U. G. HUBBARTT, Bloomfield, Secretary

AFFILIATED WITH FARMERS MUTUAL REINSURANCE CO. GRINNELL, IOWA

ANNUAL REPORT—

(Continued from Page 5)

Eight people from Appanoose County agricultural agencies attended District Commissioners Regional Meeting in Chariton.

Eight watershed meetings were conducted by Extension and SCS. Ten watersheds have now elected officers and directors.

Regular commissioners meeting was held the 29th. Arthur Streepy was elected chairman. Ten dollars was donated to Pancake day 1960.

Commissioners received letters from Thomas Martin, State Senator, and Frank Mendell, State Conservationist for the Soil Conservation Service, stating that the Moulton Watershed had received federal approval for Watershed Assistance.

County Conservation Board purchased multiflora rose plants for farmers wanting to replace their old plantings where plants had died.

APRIL

Dale Barker, Work Unit Conservationist, SCS, Albia, Iowa conducted ACP Spot Check in Appanoose County.

Appanoose County Civil Defense meeting was held the 15th.

Regular commissioners meeting was held the 26th. W. A. Hutchison, Moulton, Iowa was named outstanding farmer of the year and will receive the Goodyear Award Certificate.

District Commissioners entered Register and Tribune Contest for 1960.

Three watershed meetings were conducted by Extension and SCS during the month.

Earl Bowen of the Iowa Highway Commission checked on the Moulton Watershed influence on their highways. Ken Boerner of the U. S. Forest Service met with John Maddy, Agronomist, Leonard Larsen, State Watershed Party, Clarence Beem, Area Engineer and William Stark, Work Unit Conservationist, SCS, on agronomic phase of Moulton Watershed Work Plan.

County Board of Supervisors and County Engineer toured Moulton Watershed with Leonard Larsen, State Watershed Party, Clarence Beem, Area Engineer and William Stark, Work Unit Conservationist to discuss mutual problems and make tentative solutions for the future.

State Watershed Planning Party began surveys in the Moulton Watershed.

MAY

Soil Stewardship Week was observed May 22-29. Sermon materials were sent to 32 ministers of Appanoose County. Full-page advertisement appeared in the Centerville Iowegian.

Regular commissioners meeting was held the 31st. Commissioners entered 1960-61 Goodyear Contest.

JUNE

John Maddy, SCS Agronomist, checked jute webbing and plastic screen materials used on grassed waterways vegetation trials.

Regular commissioners meeting was held the 28th. Tentative nominees were named for the Register and Tribune Contest. Commissioners moved to invest an additional \$5,000 in Home Federal, Des Moines, Iowa.

Mrs. Lorene Oden, teacher in Moulton-Udell School, attended Springbrook Conservation Camp. Her tuition was paid by the District.

Soil Conservation Week was observed by special newspaper items and a soil and water conservation and watershed tour within the Appanoose and Lucas County Districts. Thirty-one farmers and businessmen were on the tour and visited the Charles McDanolds hood-inlet structure, Joe Gardner, drop-inlet structure, terraces, and grassed waterways, and John W. McAninch drop-inlet structure in the Appanoose District. They also made five stops in the Honey Creek Watershed of Lucas County.

Richard Larsen, U. S. Forest Service, spent two days making an appraisal of the forest areas of the Moulton Watershed. Morris Spletstaszer, U. S. Fish and Wildlife Service was also in the Moulton Watershed checking on wildlife and recreation possibilities within the area.

JULY

Regular commissioners meeting was held the 26th. Register and Tribune winners for Appanoose District were named. They are: Division I-Amos Siglin, owner, Courtney Siglin, operator, Numa, Iowa; Division II-Mildred Appler, owner, Pierce Appler, operator, Moulton, Iowa; Division III-Mildred Robb, owner, Loren Eddy, operator, Centerville, Iowa.

Sandra Kay Eddy, daughter of Mr. and Mrs. Robert Eddy, Exline, Iowa was named Queen of Conservation and will compete in regional contest at Albia August 1, 1961.

William Singley and Clifford Walker, Commissioners, attended Regional Meeting at Chariton the 26th. Walker was nominee from Appanoose County for outstanding commissioner.

U. S. Fish and Wildlife Service delivered fish for 48 farm ponds belonging to 45 farmers.

SCS core drill made soil borings in the Moulton Watershed for inclusion in the Work Plan.

AUGUST

Booth was set up for Appanoose County Fair featuring watershed mosaic and pictures from annual reports.

Amos Siglin, Numa, Iowa, was Region six winner in Division I of the Register and Tribune Contest.

Bellair Township 4-H boys and leader Raymond Powers visited the SCS Work Unit Office and were given a short summary of the Soil Conservation District and Soil Conservation Service activities. This is the fifth 4-H activity that has been conducted this year in line with their soil conservation emphasis in 1960.

Vocational agriculture instructors of this area borrowed slides and requested SCS select-o-slide machine for state fair.

Sandra Kay Eddy represented Appanoose County in the Regional

Queen of Conservation Contest held at the Albia Fall Festival.

Regular commissioners meeting was held the 30th. Commissioners were informed that Joe M. Colgan would be the new Area Conservationist for the Soil Conservation Service to replace E. E. Smith Jr., deceased.

SEPTEMBER

Work Unit set up select-o-slide on south side of Centerville square for Pancake day.

Roy Smith, Soil Scientist, assisted the Vocational Agriculture Instructors from Monroe, Wayne, and Appanoose Counties in preparing for and judging the soil contest south of Moravia, Iowa.

Lyle Peterson, Soil Conservationist, assisted the Centerville National Bank Farm Representative and County Extension Director Harold Holder in visiting and selecting the County 4-H winners in the banks' soil and water conservation contest. He also met with Udell Township 4-H boys, gave a talk and showed conservation slides.

William Stark, Work Unit Conservationist, spoke and showed conservation slides at the Centerville Garden Club and at the Moravia Garden Club. Twenty people attended each meeting.

State Watershed Planning Party worked in the Moulton Watershed on sediment and gully erosion rates and with the Area Engineers and Work Unit Conservationist checking erosion structure sites for feasibility and preliminary site and size.

County Watershed Committee met to discuss past accomplishments and future plans. Nine of the twenty watersheds in the county were represented by nineteen farmers.

Regular commissioners meeting was held the 27th. Joe Colgan, new Area Conservationist for SCS attended and reported specifically on Service intentions concerning the number of Work Unit personnel this year. Hubert Beasley, Editor of Iowa Soil and Water Magazine was also present and discussed sponsoring of the magazine for the Appanoose District.

OCTOBER

Regular commissioners meeting was held the 25th. Goals were made for 1961. Conservation award winners for 1960 were named. They are: L. S. Hendricks, Homer Renwick, Robert Clark, Dallas Walker, Raymond Powers, Floyd Cole, Ora Rinehart, and Bernard Longley.

Virgil Hawk, Plant Materials Technician, and Joe Colgan, Area Conservationist made inspection of sericea lespedeza and switch grass at Ralph Dudley farm, and the two mountain brome waterway seedlings at James McDanolds and John Adams farms respectively. They also inspected the 1938 birdsfoot trefoil planting at the Jack Howell farm.

Joe Colgan, Area Conservationist, made practice spot check in the Appanoose District with Donald Peterson, Area Engineer and LaVern Whitaker, Conservation Aid.

A terracing demonstration was conducted by LaVern Whitaker, Conservation Aid, and Lyle Peterson, Soil Conservationist, at the Dallas Walker farm in the Walnut City Watershed. Whitaker and Peterson also conducted an erosion control weir-notch dam construction demonstration on the Maurice Haney farm in Livingston Watershed.

NOVEMBER

Martin Meyers, State Watershed Party, made economic evaluations of the Moulton Watershed. Delineation of beneficial areas was part of his chore with the Work Unit Office.

Paul Jacobson, State Watershed Party, along with state, area, and work unit personnel, checked the structure sites of the Moulton Watershed to determine need and feasibility.

The 34th annual Alfalfa Banquet was held in Centerville the 17th. The Commissioners again were part of the program and presented to their eight new outstanding conservationists their gold lapel pin and conservation scrolls. This is the 11th year the Commissioners have given these awards.

Arthur Streepy, Commissioner, and William Stark, Work Unit Conservationist, met with county and township ASC committees to formulate the 1961 County AC Program.

Regular commissioners meeting was held the 29th. Plans were discussed for a County Watershed Committee meeting featuring Leon "T-Bone" McDonald, Assistant State Conservationist for the Soil Conservation Service, Stillwater, Oklahoma as speaker.

DECEMBER

Two county Watershed Committee meetings were held during the month to make plans for their annual meeting.

Regular commissioners meeting was held the 27th. State Representative, Delmont Moffitt, and State Senator, Joe Wilson attended the meeting at the invitation of the Commissioners.

ACCOMPLISHMENTS—1960

New Cooperators	190	No.
New Basic Plans	60	No.
Revisions of Basic Plans	6	No.
Followups on Basic Plans	121	No.
Contour Farming	2,523	Ac.
Brush Control	572	Ac.
Grassland Renovation	562	Ac.
Tree Planting	1	Ac.
Ponds Stocked with Fish	63	No.
Hedge Row Planting	199	Rds.
Diversion Construction	10	Mi.
Surface Field Ditches	6	Mi.
Mains and Laterals	1	Mi.
Drainage Improvement	355	Ac.
Tile Drainage	6	Mi.
Pond Construction	71	No.

Iowa Soil and Water

Terracing	24	Mi.
Structures	6	No.
Grassed Waterways	51	Ac.

Active Agreements to Date

District Cooperators	939	No.	192,146	Ac.
Cooperators with Basic Plans	617	No.	118,783	Ac.

FINANCIAL REPORT FOR 1960

State of Iowa—1A Budget

(For Commissioners mileage, meals, and hotel, office supplies, printing, prizes, demonstrations, and office expense.)

Cash on hand January 1, 1960	\$ 335.30
Fiscal year allocation from State Soil Conservation Committee, July 1, 1960	500.00
	\$ 835.30

Expenditures:

Commissioners Mileage, Meals, Hotel	\$ 161.34
Office Supplies	42.26
Printing	100.00
Prizes for Contests	82.64
Material for Demonstration	14.60
Office Expense	208.20
Total Expenditures	\$ 609.04
Total Expenditures Deducted	\$ 609.04

Cash on hand January 1, 1961	\$ 226.26
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State of Iowa—2A Budget

(For salaries, mileage, and purchase of equipment.) Commissioners do not receive salaries; only mileage, meals, and hotel expenses when they attend meetings.

Cash on hand January 1, 1960	\$2,821.81
Fiscal year allocation from State Soil Conservation Committee, July 1, 1960	5,169.00
	\$7,990.81

State Clerk Gross Salary	\$2,598.52
State Aids Gross Salary	2,022.03
District Share I. P. E. R. S.	151.57
District Share F. O. A. B. T.	138.60
Technician Mileage	67.76
Equipment, Typewriter	184.00
Returned to State Committee July 1, 1960	30.05
Total Expenditures	\$5,192.53
Total Expenditures Deducted	\$5,192.53

Cash on hand January 1, 1961	\$2,789.28
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APPANOOSE COUNTY SOIL CONSERVATION DISTRICT ACCOUNT

Receipts

Cash on hand January 1, 1960	\$ 543.71
Cash Receipts	97.24
Demonstration Farm Payment	5,000.00
Total Cash Receipts	\$5,640.95

Expenditures

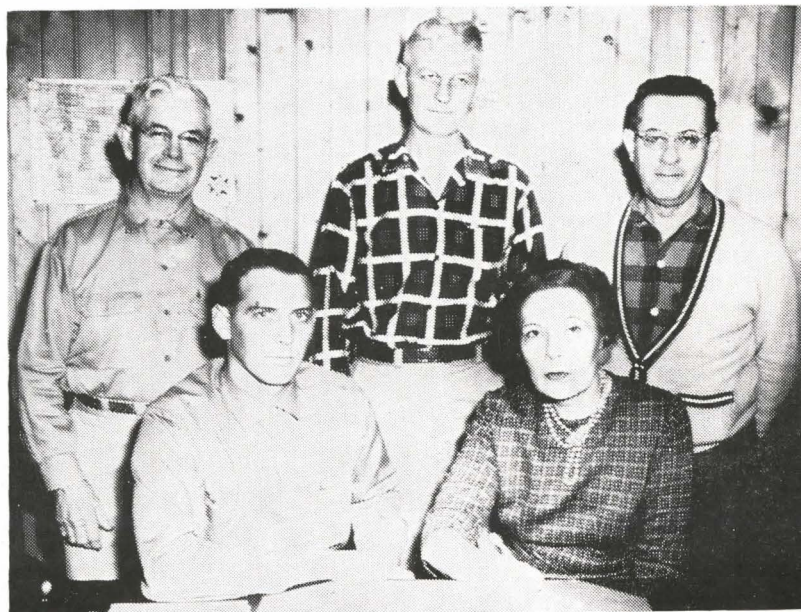
Iowa Association of SCD—Dues	\$ 100.00
National Association of SCD—Dues	75.00
Safeway—Refreshments for Contractors Meeting	3.16
Ashby Bakery—Doughnuts for Contractors Meeting	2.40
Soil Conservation Society of America—"Dennis the Menace and Dirt" for 4-H Clubs of County	22.50
Arthur Streepy—Recording Demonstration	
Farm Deed	1.00
Pancake Day Committee—Donation	10.00
Centerville Abstract Company—Drawing up contract for sale of Demonstration Farm	52.80
Iowa Conservation Camp—Tuition for Mrs. Oden	36.00
Centerville Daily Iowegian—Soil Conservation Week Ad	35.00
Centerville National Bank — Certified Check for Investment at Home Federal Savings, Des Moines	5,000.00
Post Office—Register Letter	.50
Craver Lumber Co. — Supplies for erecting District Signs Along Highways	11.51
Agriculture Service Co. — Supplies for erecting District Signs	5.50
Talbot Lumber and Supply—Supplies for erecting District Signs	23.20
Moravia Union—1959 Annual Report	81.00
Iowegian Printing Company—Subscription	11.00
Total Expenditures	\$5,472.77
Total Expenditures Deducted	\$5,472.77

Total Cash on hand January 1, 1961	\$ 168.118
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Net Worth Statement

Cash on hand in bank January 1, 1961	\$ 168.18
Cash invested on account at Home Federal, Des Moines, Ia.	14,794.17
Revolving Fund Balance	154.41
Shares—Bloomfield Experimental Farm	540.00
Iowa Soil and Water	

FARMERS HOME ADMINISTRATION



Appanoose County F.H.A. Personnel. Seated, left to right: D. Dean Schlapia, County Supervisor; Marjorie A. McGuire, Office Manager. Standing, left to right: Frank M. McCabe, Chairman, F.H.A. County Committee, Clifford I. Foster, Member, and L. Trenton McFall, Member.

FARMERS HOME ADMINISTRATION

By D. Dean Schlapia
Supervisor

Farmers Home Administration services to Appanoose county farmers include Operating, Farm Ownership, Farm Housing and Soil and Water Conservation loans.

Operating loans are primarily to help eligible farm operators to acquire necessary livestock, farm machinery and other items essential to their particular farm operations. These loans also provide funds for the purchase of seed, feed, fertilizer and other farm operating expenses as well as for refinancing existing indebtedness on livestock and farm machinery. Operating loans bear 5% interest and can be made for a period of seven years.

Farm Ownership loans can be made to meet a variety of situations. They provide funds for the purchase of farms, adding land to present farms, or refinancing existing contracts or mortgages against farm real estate. Funds for improving land, buildings and fences can also be included in addition to the purchase of land or refinancing. These loans bear 5% interest and can be made for a maximum of 40 years.

Farm Housing loans are available at 4% interest with a maximum repayment of 33 years and can be secured by either the first or second mortgages. This loan enables the farmer to obtain credit to improve living conditions for his family as well as necessary livestock and grain shelter. Funds are limited to improvements to be made only on the farmstead. It could include a well, water system or modernizing the farm home.

To preserve the soil and conserve the water is the objective of the Soil and Water Conservation loans. Funds can be used to build terraces, waterways, erosion control structures, improve pastures and other practices recommended by the Soil Conservation Service. These loans bear 5% interest and can be scheduled for repayment not to exceed 20 years. They can be secured by a chattel mortgage and are also available to tenants providing they have a specific clause in their farm lease. S & W loans are also available to associations to establish watersheds.

The FHA program provides credit for farmers who are unable to obtain adequate credit from local sources. The County Office is located in Centerville with a sub-office in Albia.

Demonstration Farm Balance	6,000.00
Terracer and Scoop	100.00
Total Assets	\$21,756.76
Total Liabilities	.00
Estimated Net Worth	\$21,756.76

*Does not include State of Iowa funds.

IOWA CONSERVATION COMMISSION



Mark Uhlenhake, Conservation Officer, Appanoose and Monroe Counties.

WILDLIFE CONSERVATION

By Mark Uhlenhake
Conservation Officer

Appanoose & Monroe Counties

Wildlife means many different things to different people. Whether you hunt, fish, or are just an interested observer of Nature's children you realize what a rich natural resource wildlife is. We

must do all that we can to protect it. We must nourish and encourage it in every way possible.

Some of our forefathers thought that the supply of wildlife was endless and unlimited; they treated it accordingly. Today, we know that that type of thinking is dangerous and false. The countless millions of Passenger pigeons that once clouded the skys are gone forever. The American Bison came close to the same fate.

Life, in any form, has to have basic requirements and **wildlife** is no exception. It's basic requirements are for food (year around), cover (from weather and enemies), water, and living space. Further, each species has its own special living needs. Trout could not survive in warm cat-fish waters. The brush loving cottontail rabbit would soon disappear on the open plains that the jack rabbit chooses.

Here, in Appanoose county and surrounding areas, our principle game bird is the bobwhite quail. It is a small bird (6 to 7 ounces) that thrives on agricultural land where good land management practices are in use. Although

Springbrook Park

IOWA TEACHERS CONSERVATION CAMP

By Mrs. Lorine Oden

Going to Iowa State Teachers Conservation Camp is like eating your cake and having it, too, that is—six weeks of college work and a wonderful vacation all in one. During leisure hours there are opportunities for boating, swimming, sunbathing, hiking, etc., in one of Iowa's beautiful parks.

their daily movements are not great, a covey of quail needs approximately one mile of edge cover. For this reason, they respond exceptionally well to brushy fence rows and ditch banks, and to plantings around farm ponds and on "odd areas."

Plants and trees are available from the State Conservation Commission Nursery for a few dollars a thousand. Your local Soil Conservation District, County Extension Service, or the local Conservation Officer will be glad to help in any way possible.

If we all work together and pull together, that old phrase (the good old days) will not be heard as often.

Where else would you find lounge chairs in the lecture rooms?

From the first call to breakfast to lights out at night every day is filled with new experiences. Besides the regular teaching staff there are always visiting instructor who are specialists in their fields.



Mrs. Lorine Oden, second grade teacher in Moulton-Udell School. Mrs. Oden attended two sessions of the Conservation Camp and received a tuition scholarship from the Appanoose County Soil Conservation District.

The lectures are forerunners to many field trips and experiments in field and lab. The study of soils, rocks, rock formations, trees, wild plants, and wildlife in the field under guidance of specialists is a much richer learning experience than studying about them in the classroom.

Each week there are two interesting bird walks in the early morning with instructors whose eyes can catch the faintest movement of a small bird high in the branches, identify a bird on the wing, or even allure one out in the open by imitating its call.

In the wood working shop many use power tools for the first time as well as experienced ones to make boxes for mounting collections, bird boxes and feeders, and other teaching aids for conservation.

This has all proven to be of great use in the elementary school. When Johnny brings in a rock specimen we can identify it by comparison with the collection from Conservation Camp, or from our reference materials. At the present time my second grade and I are working on a bird unit. The teaching of conservation can certainly be enriched by the knowledge and materials gained from the Iowa State Teachers Conservation Camp.

Iowa Soil and Water

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Conservation Contractors

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Iowa

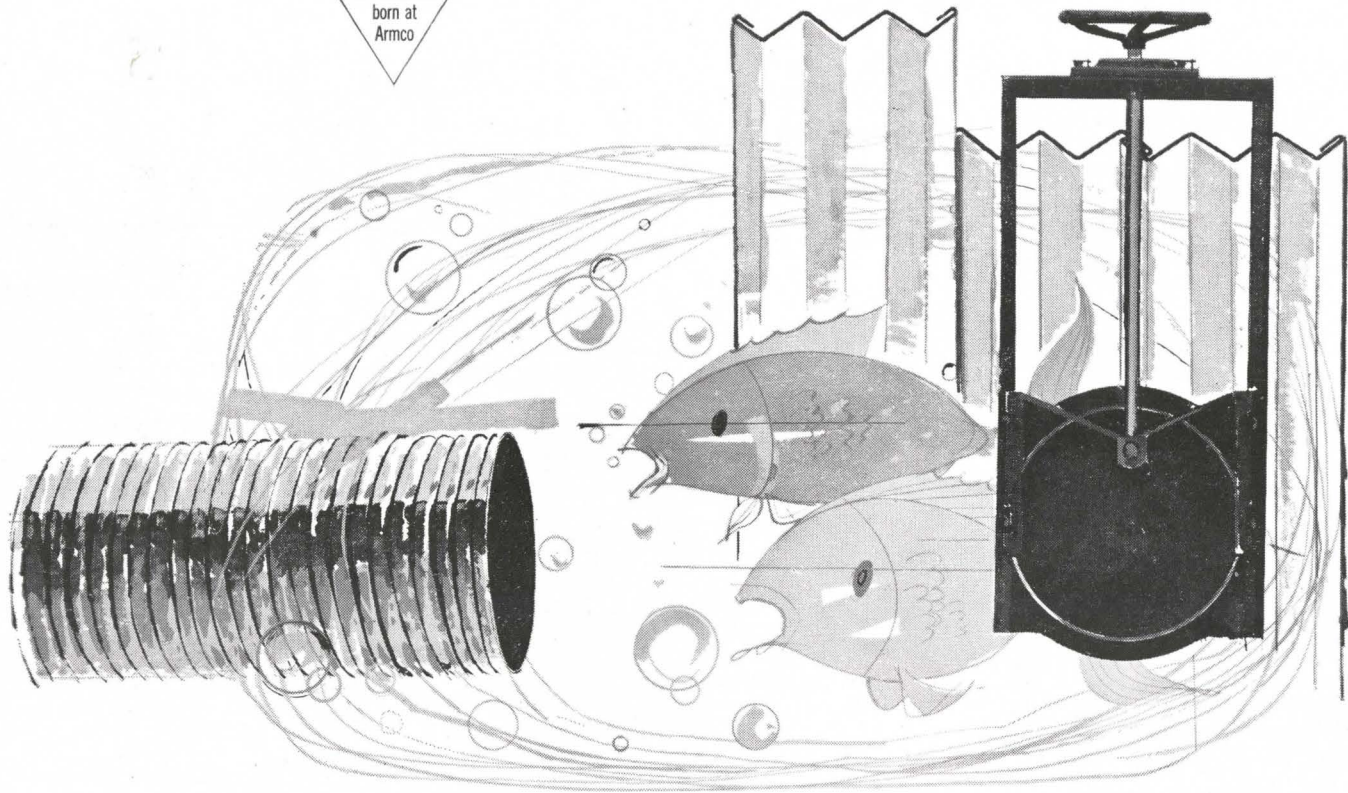


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Interlocking Sheet piling . . . to protect banks and dam walls from seepage and ultimate destruction. They can be driven with a sledge hammer.

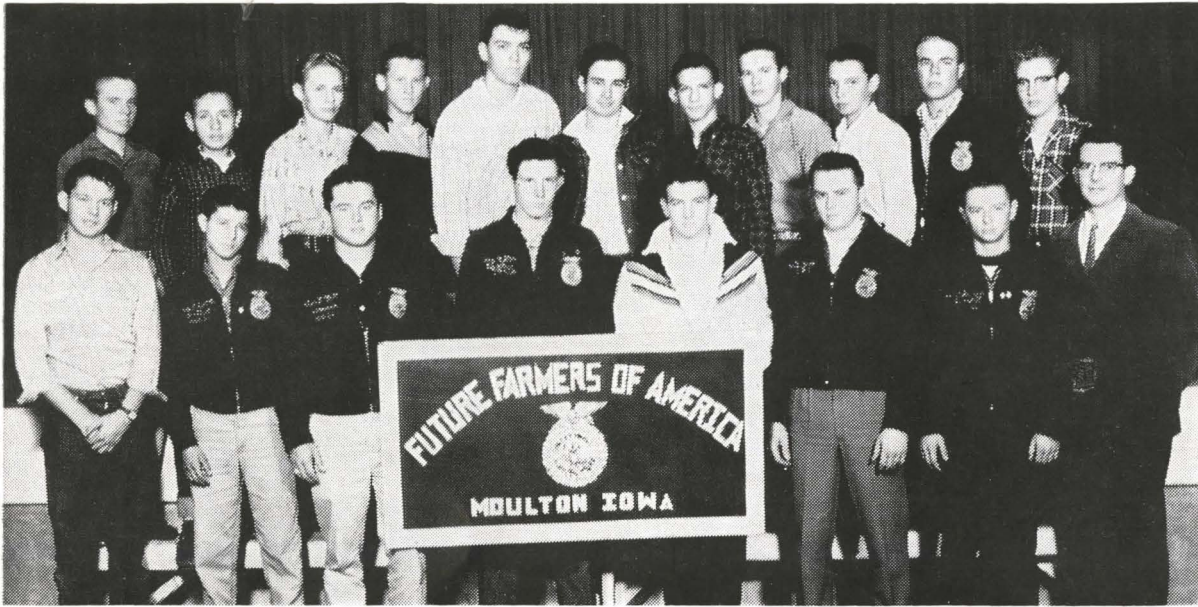
Corrugated Steel Uncurved Sheets . . . to stop whirlpool action at the inlet and prevent seepage around the spillway.

Slide Gates . . . to provide economical pond level control for flood protection and cleaning.

All products in Armco's farm pond "package" have been proved by long and satisfactory service. To see how they fit **your** needs, call or write Armco Drainage & Metal Products, Inc., 2111 Grand Avenue, Des Moines 9, Iowa.

ARMCO Drainage & Metal Products

Future Farmers of America



Moulton-Udell, Iowa F.F.A. Pictured: First Row, Left to right, Tom Hull, Jimmie Smith, Tim Hull, Jerry Felton, Colin Ballanger, Mike West, Ronnie Burger, and Donald D. Kent, Instructor. Second Row, Left to Right: Tommie Brinegar, Gary Davison, Kyle Lamb, Keith Smith, John Myers, Dale Ballanger, Jack Wagner, Richard Spurgeon, Junior Lawson, Leonard Harris, and Larry Johnson.

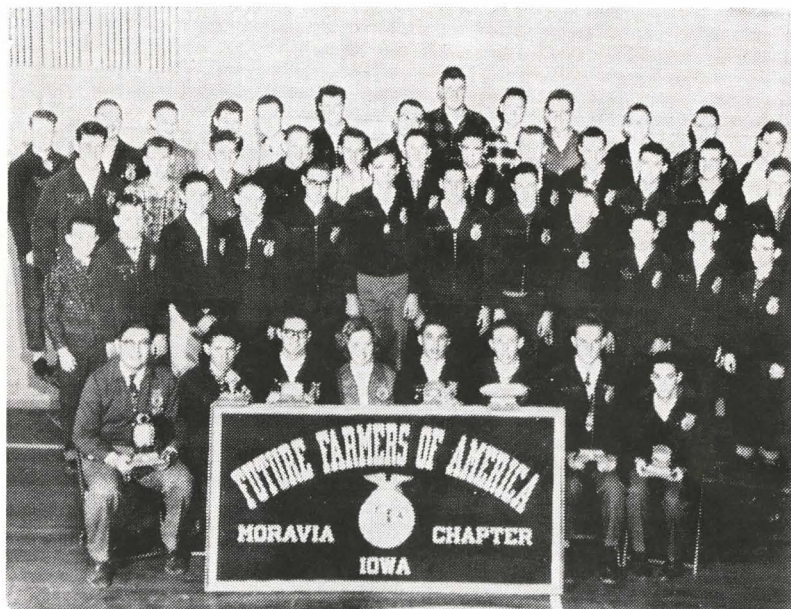
CONSERVATION AND OUR FUTURE FARMERS

By Henry Stuchel
Voc. Ag. Instructor
Centerville High School

Vocational Agriculture is designed to help young men become established successfully in farming. Conservation is an important part in the Vo-Ag. program, because conservation and success in farming go together. Without some soil and water conservation we could not have attained the crop yields we have at present, and with more conservation we could attain higher yields and more profit on our land. This is true because through conservation we are conserving important nutrients and water which are needed for growth by any field crop or pasture crop.

In our county over three-fourths of our farm income comes directly or indirectly through the soil. This shows the importance of our soil and means we especially need to protect this investment from the damaging effects of erosion. Any good farmer or businessman should protect his investment to insure profits in years to come. Farmers can protect their land investment and future profits through soil and water conservation. A farmer must not allow his investment or future profits to be eaten away or undermined by this greedy character called erosion.

The farmers in Appanoose county and the local SCS need to be congratulated on their fine work in the area of soil and water conservation. The example they are giving in this area will make an impression on the youth of today and give them a good example to follow.



Larry Dayton, Advisor to the Moravia Chapter of Future Farmers of America, front row, left, and his boys from the Moravia Chapter and their Chapter Queen, Miss Virginia Strong.

Tied in with the Vo-Ag. program is the Future Farmers of America. A goal of the FFA is to develop leadership. We hope this leadership training will influence the boys in later years and help them to become leading farmers in their community, which definitely includes leadership in the area of conservation.

The study of conservation in Vo-Ag. in Centerville includes contouring, terracing, strip cropping, ponds, and erosion control structures. This study is accomplished through field trips and classroom work.

The Soil Judging Contest is the main activity of the FFA in the area of soil conservation. The FFA chapters eligible to partici-

pate in the contest are: Albia, Centerville, Chariton, Corydon, Garden Grove, Moravia, Moulton, and Seymour. A team from each chapter examines soil characteristics including soil profile, slope, location, texture, and other factors to determine the productivity of the land. The soil conservation districts in Appanoose, Lucas, Monroe and Wayne counties have provided a traveling trophy that goes to the winning chapter each year. Albia has had the trophy one year, Centerville had it two years, and Moravia has it this year. Our last Soil Judging Contest was judged by the local SCS personnel who also picked the sites for the contest. The local support for the contest is greatly

appreciated and credit for the success of this contest is due our local SCS as well as the other three counties.

Conservation of land and water resources is a big and important job. Since agriculture is still the backbone of the nation, we must keep our land productive in order to be prosperous and to be able to feed our growing population. Thanks to the SCS personnel for helping to educate the farmers as well as our youth in the important area of conservation.

MOULTON WATERSHED—

(Continued from page 7)

45 miles of terraces, eight miles of diversion, 60 acres of waterways, 41 ponds, 14 gully control structures, 25 acres tree planting, 568 acres in woodland protection, 800 acres in drainage improvement, and 2,100 acres in pasture improvement. Individual farmers are already working on these goals and in the past three years four erosion control drop inlet structures have been built on the L. G. Clinkenbeard, Arthur Jay, Ward Daniels, and M. C. Anderson farms.

The watershed group has met with the F.F.A. boys of Moulton-Udell high school to study the purpose of watersheds and soil management in this area. Local farmer members accompanied the State Watershed Advisory Board and District Soil Commissioners on a tour of the area. Also, the group toured Honey Creek Watershed and Brown Slough Area to learn more about the results of watersheds.

The sponsors for the Moulton Watershed are: Appanoose County Soil Conservation District, Town Council of Moulton, and Appanoose County Board of Supervisors. Supporting groups for the watersheds are Moulton Chamber of Commerce, Burl McClure American Legion Post, Appanoose County Farm Bureau, County Conservation Board, Moulton Methodist Church, and the Moulton Watershed Association.

Our application was approved by the State Soil Conservation Committee December 1, 1958. Federal approval was given in March 1959. Plans are drawn up for the sites of retention dams. We hope to complete the watershed in the next five years. The initial draft of the work plan is now in the hands of the sponsoring organizations and the E and WP Unit at Milwaukee. Final work plan copies must be approved by all parties involved before work can be started.

Iowa Soil and Water

Watershed Committee



Appanoose County Watershed Committee. Front row, left to right: Loren Eddy-Cooper Creek, Joe Steele-Sharon Bluffs, Dallas Walker-Walnut City, Harold Miller-South Chariton, Clarence Hiner-Iconium, Glenn Patterson-Dean. Back row, left to right: Robert (Tenn.) Clark-Secretary-Treasurer, Leon Kauzlarich-Walnut, Burdette Cox-North Soap, Bob Walker-Little Walnut, Tom Martin-North Chariton, Frederick Horn-Fabius, and Wilbur Rush-Co-Chairman.

APPANOOSE COUNTY WATERSHED COMMITTEE

By Wilbur Rush, Co-Chairman
and Robert (Tenn.) Clark,
Secretary, Treasurer

In the fall of 1959 Appanoose county was very fortunate in having Leon T-Bone McDonald, Assistant State Soil Conservationist from Stillwater, Oklahoma, speak at our businessmen and farmers banquet, sponsored by the Centerville Chamber of Commerce and Appanoose County Farm Bureau. In December 1959 the Appanoose County Watershed Association was formed at a follow-up meeting after T-Bone McDonald's fireball speech on watershed practices. At this meeting of the Appanoose County Watershed Association, officers were elected from each individual watershed. There are twenty potential watersheds in Appanoose county of which three were already organized, prior to the watershed program being organized on a county-wide basis. Since the organization of a county-wide watershed program in December 1959, there are eleven of those areas actively working toward gaining sufficient farm planning and conservation practices which will enable them to make application to the State Committee for State and Federal aid. This State and Federal aid will provide funds for Government engineers to survey and lay out the required watershed program which will authorize government construction of the large flood control structures.

In the spring of 1961 a goodwill offering from the members of the Appanoose County Watershed groups enabled us to have Iowa Soil and Water

T-Bone McDonald back on a return visit. As a result of the two lectures on watershed purposes and their advantages, we feel it has inspired and hastened the

work toward the two applications which are ready now for signatures and submission for approval by the State Committee.

**LET'S STOP
THE RAINDROPS
WHERE
THEY FALL**

Do We Want This?

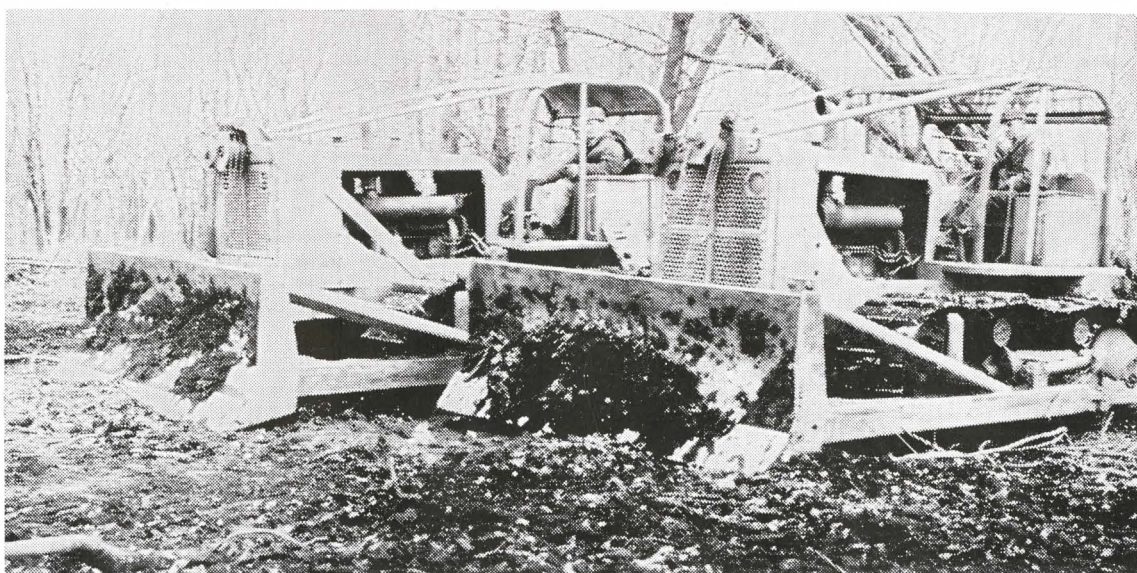
See the following pages for ways to prevent this from happening in Appanoose District.



Highway No. 2 river bridge, a familiar scene. The Chariton River in full spring flood. Through the development of watersheds in the upper tributaries, much of this flooding can and will be controlled.

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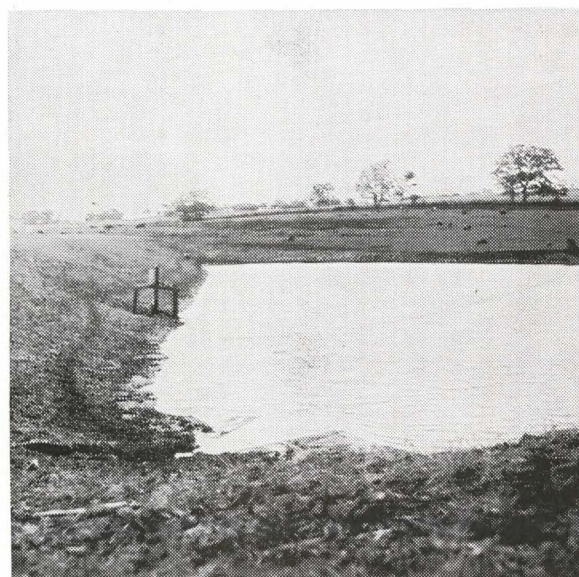
Centerville, Iowa

WALDO MOORE
Phone 586 Green

Preventing Soil Loss With



This picture taken at the Cliff Singley farm, Fox Watershed, shows old pasture in the foreground which has been brush disced preparatory to renovation. The structure in the background was constructed in an old gully to halt the progress of erosion. As can be seen in the picture, the structure fill has been very thoroughly mulched for protection until the seed has a chance to take over.



Erosion control structure drop-inlet with anti-swirl wall device shown on the Ward Daniels' farm, Moulton Watershed.



Upstream side of county road culvert near Charles McDanolds' farm, Little Walnut Watershed, showing roadside erosion and siltation deposits.

Downstream side of same culvert showing a thirty-six-inch culvert and deposition of silt in the pond area.



The outlet of a four-inch trickle tube in the John Mitchell farm pond, Cooper Creek Watershed. These trickle tubes are being used in several of the Appanoose County SCD ponds to help cut down the amount of water going through the emergency spillway on the farm ponds.



This is a typical picture of a propped outlet on a drop-inlet structure. These structures back water up over eroded areas and then during periods of excessive runoff, tend to step the water down through the structure and out of this type of outlet. As the water comes out of this, it will tend to cut a small "scour hole" which provides a shock absorber effect for the water as it is released on the downstream side of the structure.

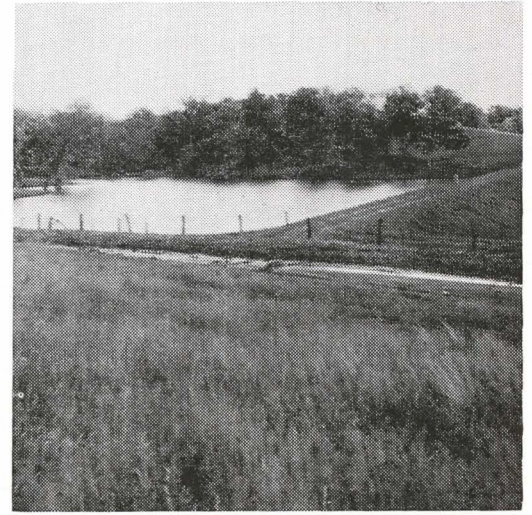
Erosion Control Structures



This is the "before" shot of the location of the Arthur Jay structure in the Moulton Watershed. Pictured in the foreground is Mr. Jay standing in the gully where the drop-inlet erosion control structure was built.



Installing the drop-inlet pipe during the construction of Mr. Jay's structure. The pipe that is shown complete with anti-seep collars was covered by the earth-fill when the structure was completed.



The completed structure on the Arthur Jay farm showing the seeded earth fill and the diversion in the foreground leading to the structure. This structure is typical of many in the county and contains approximately 8800 cubic yards of earth. Ninety-four acres of drainage area is controlled behind this fill.



Hood-inlet in the Charles McDanolds' farm directly below the road culvert. This eight-inch hood with two-foot impoundment stage contained all the water which twice washed out the county road culvert in the spring of 1960.



Outlet of hood inlet showing small amount of water coming through. This hood-inlet drops the water approximately eight feet with no erosion.

SOIL SURVEY—

(Continued from page 9)

others in the profile and to learn the things about this soil that influence its capacity to support plant growth.

COLOR is usually related to the amount of organic matter. The more organic matter the soil contains the darker it is, as a rule. Streaks and spots of gray, yellow, and brown in the lower layers generally indicate poor drainage and poor aeration.

TEXTURE, or the content of sand, silt, and clay is determined by the way the soil feels when rubbed between the fingers, and is later checked by laboratory analysis. Texture determines how Iowa Soil and Water

well the soil retains moisture, plant nutrients, and fertilizer, whether it is easy or difficult to cultivate.

STRUCTURE, which is the way the individual soil particles are arranged in larger grains and the amount of pore space between grains, gives us clues to the ease or difficulty with which the soil is penetrated by plant roots and by moisture.

CONSISTENCE, or the tendency of the soil to crumble or to stick together, indicates whether it is easy or difficult to keep the soil open and porous under cultivation.

OTHER CHARACTERISTICS observed in the course of the field

study and considered in classifying the soil include the following: The depth of the soil over bed rock or compact layers; the presence of gravel or stones in amounts that will interfere with cultivation; the steepness and pattern of slopes; the degree of erosion; the nature of the underlying parent material from which the soil has developed; and acidity or alkalinity of the soil as measured by chemical tests.

On the basis of the characteristics observed in the field or determined by laboratory tests, soils are classified into phases, types, and series. The soil type is the basic classification unit. A soil type may consist of several

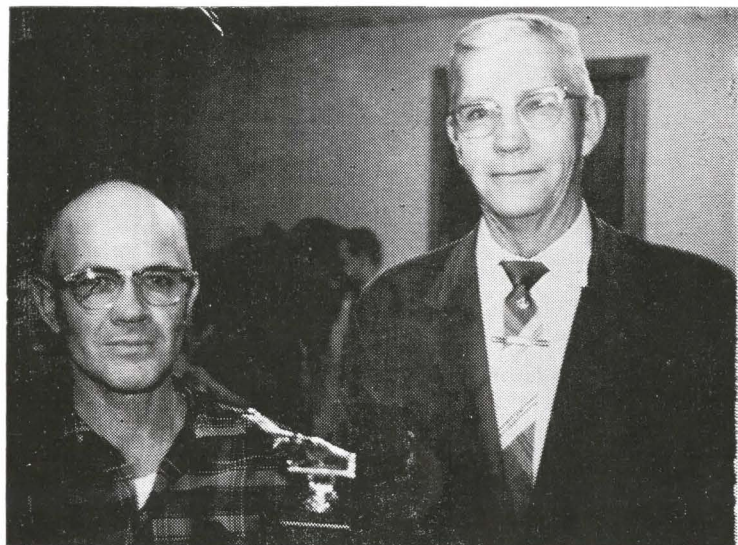
phases. Types that resemble each other in most of their characteristics are grouped into soil series.

The soil phase is the unit shown on the soil map. It is the unit that has the narrowest range of characteristics. Use and management practices, therefore, can be specified more easily than for soil series, or yet broader groups that contain more variation.

Any land owner or operator can get a soil map by becoming a cooperater with their local Soil Conservation District.

Soil surveys have been made on 197,529 acres of Appanoose County land since the Soil Conservation District was established in 1944.

Soil Conservation Award Winners



Art Streepy, Chairman, Appanoose County SCD, shown presenting trophy to first place winner, Wendell Pick, Livingston Watershed, in the Franklin Farmhands 4-H Conservation Contest. Second place went to Lee Schmell, Shoal Watershed. Trophies were awarded by the Appanoose County SCD Commissioners.

FRANKLIN 4-H FIRST IN STATE WITH CONSERVATION CONTEST

By Ronald Turk, Curtis Sebolt,
and Courtney Siglin, leaders

Conservation is defined as being the wise use of natural resources. With this thought in mind the Franklin Farmhands began the year of 1960. Our special activity for the year was soil

and water conservation which was to be given extra special attention. This was to be done through the use of SCS films and lectures, tied in with demonstrations by the club members. In addition the members were given project sheets in which to keep records of their own experiences and achievements in conservation.

While trying to motivate the boys in our special activities I hit upon the idea of a contest in which all of the farmers in the township could participate. After discussing the idea with the other leader, Courtney Siglin we set about the task of setting up a score sheet with some conservation practices on it, with so many values for each one of them. We got a form sketched out for it and took it to the Extension and SCS offices where Harold Holder and Bill Stark did some revising of it into the final form.

At the next meeting of the Franklin Farm Hands 4-H club we gave them our plans for some kind of a conservation contest in Franklin township using these score sheets. The group then decided to have all the 4-H club member families eligible to enter the contest regardless of whether they lived in or out of the township. Also to have all of the farmers in the township eligible to enter the contest.

A kickoff meeting was held on March 3, 1960 for the contest with all of the farmers of Franklin township invited to attend. A program was given with some of the boys giving demonstrations and the Extension and SCS representatives giving some discussions. It was announced that the Appanoose County district soil commissioners would help with the contest by furnishing the two trophies. During the year the club continuously reminded their neighbors and friends of the contest which was in progress.

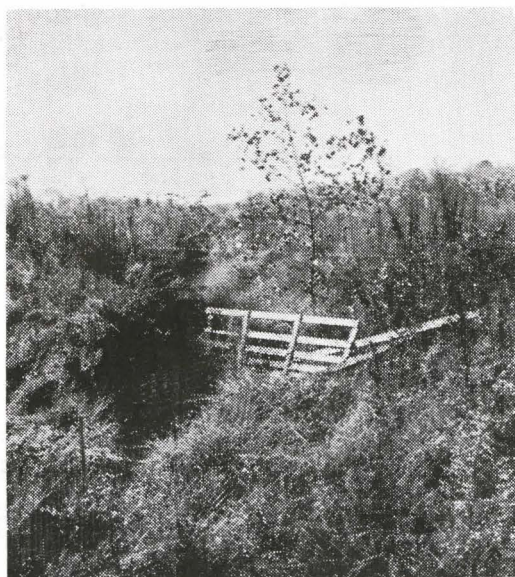
Since this was the first year for the contest some previously completed practices were includ-

ed on the sheet so that those who had previously made much progress in conservation would not be penalized. Those practices included in the score sheet were; contouring on the row crops, grass waterway construction, waterway seeding, terracing, pasture renovation, old and new birdsfoot trefoil establishment, gully control structures, ponds, fish stocking of ponds, brush control by dozer or spraying, liming, woodland management, tree planting, strip cropping, surface drainage, patches of canary grass for replant and soil samples which were sent to Ames for complete analysis. A system was devised whereby the final scoring of the sheets would put the large and small farms on an even basis.

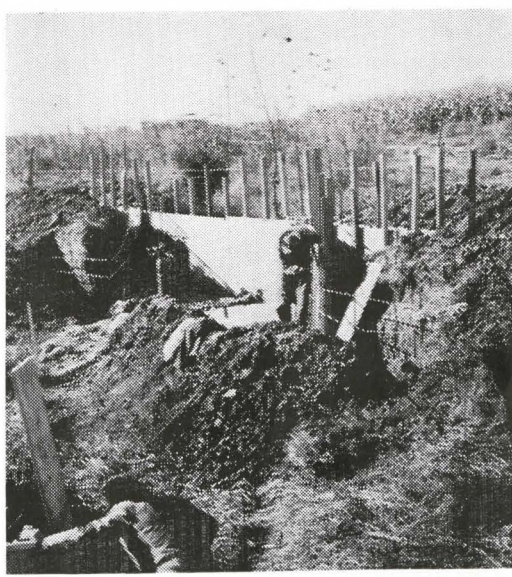
The award night was held Feb. 24, 1961 together with our annual 4-H club family night signifying the end of our conservation contest. It came to a close with a grand total of 26 entrees. All of those entering the contest as well as the 4-H families, were invited to the event which started off with a co-op supper. The supper and the short program which followed was attended by a total of 64 people. The program included some soil conservation demonstrations and was concluded with the awarding of the trophies. Art Streepy, chairman of the soil commissioners was on hand to award the two handsome, inscribed trophies. The first place trophy was awarded to Wendell Pick who had a total of 159 points, of which the majority was won with his 16,550 feet of terraces.

—Continued on page 22

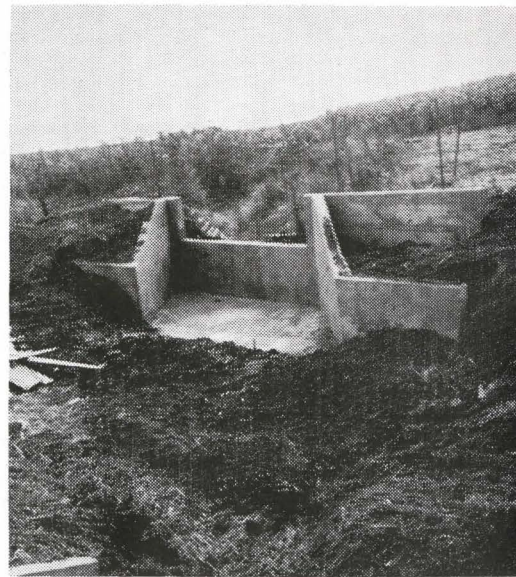
Concrete Erosion Control Structure



Structure site before work was begun on the Maurice Haney farm, Shoal Watershed. This gully was rapidly eroding back into Mr. Haney's farm land.



Weir-notch reinforced concrete structure being installed on the Haney farm as an erosion control project.



The completed weir-notch structure before Mr. Haney finished the project by developing the waterway and backfilling around the structure. The waterway has now been completed and the structure is stable.

Iowa Soil and Water

Iowa Lawmakers Boosters for Soil Conservation



DELMONT MOFFITT
State Representative

CONSERVING NOW AND FOR THE FUTURE

By Delmont Moffitt
State Representative
Appanoose County

Soil and water conservation, in my opinion, is absolutely necessary for food production. Food being essential to life, most people will sacrifice anything to secure it. Most of the world today is short on food and has been short throughout history. Unless we look ahead and take steps now to save our soil and water, I believe we too will eventually be short on food.

Much of our land is losing top soil at a rate that will sooner or later result in less production. Our water tables in the ground are tending to lower. We can and must reverse this trend.

We have better tools with which to do this task than any people have had in past history. We have the power, the equipment, the know-how to do the job and it will pay it's way in dollars and cents. Many people are managing their land today so that the productivity will be maintained indefinitely. We need to do this on all our land.

I believe that an abundance of food at reasonable prices is one of the most important reasons for our high standard of living in this country. It takes less than one-tenth of our people to produce the food for all of us. The other nine-tenths can provide products and services that we all want and enjoy. This situation

Iowa Soil and Water

was about reversed during this country's early history, and is that way in many parts of the world today.

I'm proud of the start that the people of Appanoose county have made toward an effective soil and water program. We hope to be the first to have a complete program on every acre. I think it will help the economy of our country as much as anything we can do. I believe we can and will get the job done.

A STATE SENATOR VIEWS CONSERVATION

By Joe N. Wilson
State Senator, Third District
Appanoose and Davis Counties
Unionville, Iowa

In answer to your request that I write a story on my outlook on soil and water conservation as viewed by a State Senator, I am happy to be able to offer what I can if it will help promote your program in any way.

As a member of the Conservation committee in the Senate, I have a chance to see what is being proposed in the way of Legislation. Another committee in which soil conservation would be interested is the Water Rights committee.

We passed a bill, House Joint Resolution II, out of this committee to the Senate Appropriations committee which sets up a study of the feasibility of conducting tests and locating existing underground water supplies

—Continued on page 25

Conserving the Soil for the Present and the Future.

Pasture Improvement



Bill Stark, Work Unit Conservationist, showing a completed pasture renovation project at the Cliff Singley farm, Fox Watershed. Mr. Stark is shown with some of the trefoil and orchardgrass pasture that Mr. Singley has had such good success with.

FARM PONDS



This farm pond on the Tony Kruzich farm, South Chariton Watershed, provides primarily a livestock source of water and also has secondary value as a real good fish pond.

*The Annual Conference of Iowa's Soil
Conservation District Commissioners will
be held at Hotel Savery, Des Moines,
September 17, 18, and 19.*

PREVENTING SOIL & WATER



Graded terrace construction on the Dallas Walker farm, Walnut City Watershed. This picture shows the first pass of the bulldozer pushing up the initial ridge.



Contractors' first finishing step down the channel of the terrace on the Walker farm. This step in the finishing process will leave the terrace with a ten-foot channel.



The final finishing pass on the Walker terrace. In the picture the contractor is smoothing the back slope and at completion the terrace is ready to be farmed with the rest of the field.



Graded terrace on the Dwight Glick farm tenanted by Ralph Spencer, in the Maine Watershed. This picture shows the grade of the back slope on the terrace as constructed. This slope is designed to permit cultivation with four-row equipment.

CONSERVATION AWARD—

(Continued from page 20)

The second place winner was Lee Schmell with 116 points of which the majority of his points was won with his waterway construction and waterway seeding.

Everyone was well pleased with the results of this contest since this was the first one of its kind to be held in the state of Iowa. Enough interest was shown in the contest that it was decided to have it run for another year. The soil commissioners are generously extending us their help in our contest again this year. We hope for an even larger num-

Page 22

ber of entrees and would also like to have some of the other townships try a similar contest. This year the score sheets will be revised to include only the 1961 practices. We wish to thank all of those who have helped in this project and to invite other clubs to run us competition.

**All Agencies,
Working Together,
to Attain
One Goal —
SOIL
CONSERVATION.**

Contouring



Contouring alone in a bean field on farm operated by Mickey Walker.

Wallace Farmer Presents Awards

FIVE OUTSTANDING FARMERS HONORED

Five outstanding Iowa farmers were presented Master Farmer awards by Wallace Farmer at a luncheon in Des Moines on Mar. 27, 1961.

The five Master Farmers include Herbert Cline of Bussey,

Ralph Fox of Riceville, Elmer J. Hamann of Eldridge, Donavon H. Kruse of Charles City, and Ferd F. Schmidt of Maquoketa.

They all have long records of achievement in farm operation and management, family living, and community service. They are outstanding examples of the many excellent farmers and community leaders in Iowa agriculture.

—Continued on page 23

Iowa Soil and Water

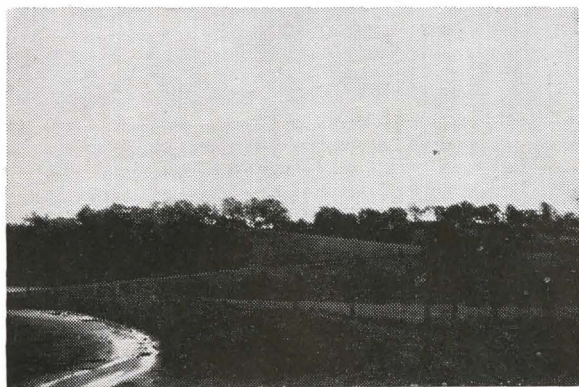
LOSSES WITH TERRACES



The meadow and cropland in this picture taken at the Belford Walker farm are separated by the diversion which prevents the hill water from overflowing the bottom.



Moulton Watershed. Terracing and contouring controlling erosion and protecting the bottomland shown in the background from overflow runoff.



This diversion on the Arthur Jay farm in the Moulton Watershed which is located above his cropland acres, intercepts the excessive runoff from the pasture and channels it through the structure shown in the background. Below the diversion and structure in the pasture, Mr. Jay constructed graded terraces and converted the land from pasture to cropland use.



This picture shows the use of terraces and contouring to control runoff before it is emptied into the grassed waterway on the Sam Carpenter farm.

Iowa Soil and Water

Let's Prevent This Loss Of Your Soil



Terrace outlet finished improperly; no grassed waterway, shows high degree of soil erosion. Approximately six inches of soil lost in this channel; Cooper Creek Watershed.

OUTSTANDING FARMERS—

(Continued from page 22)

A total of 192 men and one woman now have received the Master Farmer award since the program was started in 1926.

To be eligible, a nominee must first be nominated by friends or neighbors. Then he must have a proven farm operation with sound livestock and soil building programs. An outstanding record of service and leadership in his

community is also required. In short, he must be an example of the Wallace Farmer motto: "Good farming—Clear thinking—Right living."

The panel of judges for the contest included Richard Albrecht, editor of Wallace Farmer; Herbert Howell, Iowa State University agricultural economist; Russ Eldred of Anamosa, president of the Iowa Master Farmer Club; and Clyde Spry, Iowa Secretary of Agriculture.

Soil Stewardship



The Rev. Henry Herman Fritz, Pastor of the First Christian Church at Moulton, Iowa.

God and Man As Coworkers

By Rev. Henry Herman Fritz

In the Holy Bible, Genesis 2:15, we find that God needed man to keep and dress the garden of Eden. Later when man had sinned and went forth from Eden, God had man to till the soil for his daily bread, however, under great difficulties and unfavorable circumstances.

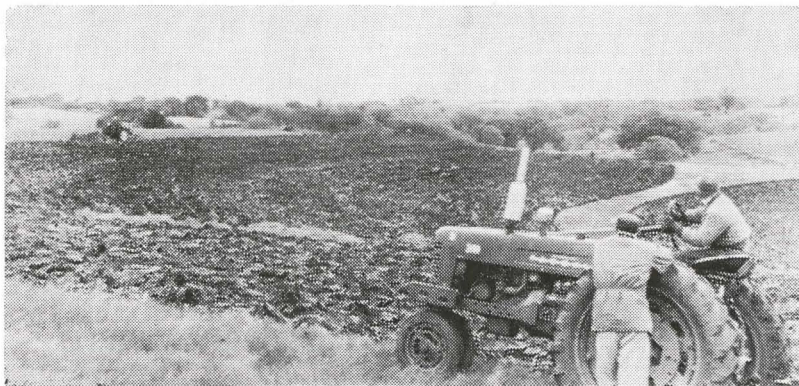
Man, for his very existence, is dependent upon the earth, this fact was vividly brought to my attention as a farmer while liv-

ing on the prairies of Kansas and Colorado in the 1930's.

This precious layer of tillable soil of our earth is an heritage from God, to treasure, keep and preserve, for on its preservation depends our very earthly existence. That is why Soil Conservation should become Soil Stewardship.

The parable of the Talents can be applied to us. It is our right and God given duty, to so work, that soil and water conservation shall be improved not only for our generation, but for our children's children and thereby prove worthy stewards of the God given heritage of land and water, and obey the admonition of our Christ, "Occupy Till I Come."

Church Group Sponsors Conservation Demonstration



Contour plowing demonstration being held at the Leona Cousins' farm south of Moravia. This was a cooperative venture of the Moravia Methodist Men's Club. When they tilled the farm, they kept all of their operations on the contour.

Open Drainage



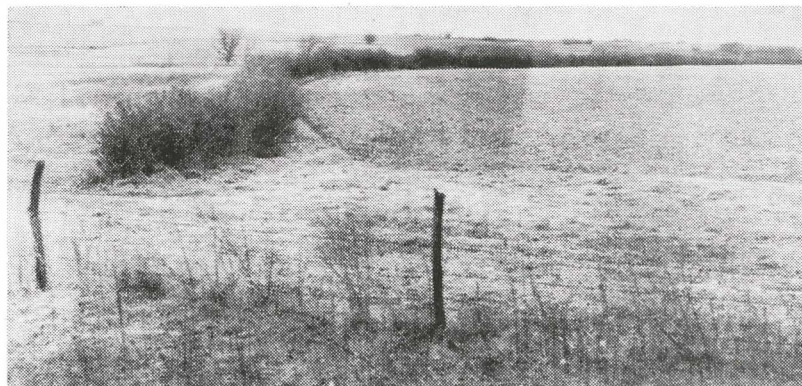
This drainage ditch in the Moulton Watershed was put in cooperatively by Mrs. Lettie Daniels and Doyle Anderson to provide an outlet for drainage of the bottomland shown.

Grassed Waterways



Establishment of sod waterway in this picture was aided by the use of plastic screen which protected the soil and young seeding until the grass was big enough to control erosion. This waterway is on the old SCD Commissioners' farm in the Cooper Creek Watershed.

Multiflora Rose Living Fence



Ernie Talbert farm. Multiflora rose contour boundary fence separating two fields in the Little Walnut Watershed.

PROGRESS OF 70,000 IOWA CONSERVATION FARMERS

More than 4,500 farmers became cooperators with their local Iowa soil conservation districts during 1960, according to an announcement today by Frank H. Mendell, State Conservationist, for the U. S. Soil Conservation Service. The statement was made in a review of conservation accomplishments in Iowa's 100 soil conservation districts. The 4,500 figure is an increase of two per cent over last year.

The primary objective of farmers in becoming cooperators is the development of complete plans of soil and water conservation on their farms and the application of soil conservation practices with technical assistance from the Soil Conservation Service. As of January 1, more than 70,000 Iowa farmers are now engaged in establishing soil and water conservation measures on their farms. Nearly 50,000 of these cooperators have already developed complete soil and water conservation plans; 3,600 of these plans were developed in 1960, according to Mendell.

Soil Conservation Service technicians provided technical service
Continued on page 26

CONSERVING—

(Continued from page 21)

and to make an appropriation, therefore. This bill acknowledges the tests that system-patterned drilling have discovered, heretofore unknown sources of water in adjoining counties in the state of Missouri. It suggests that we might benefit by doing the same in the southern tiers of counties in Iowa. Another area to which I would like to point out is pertaining to levies along the Mississippi River to our levies by a builder which costs millions of dollars. From Muscatine to Keokuk alone, it is estimated these levies will cost \$8,000,000. If this money or its equivalent could be used, the watershed control at the head waters where the water originated could be held in small reservoirs and let out gradually or used for irrigation purposes during other parts of the year.

It seems we do not grasp or see the whole picture of what happens in a flood or we would go all-out to hold the water where it falls as nearly as possible.

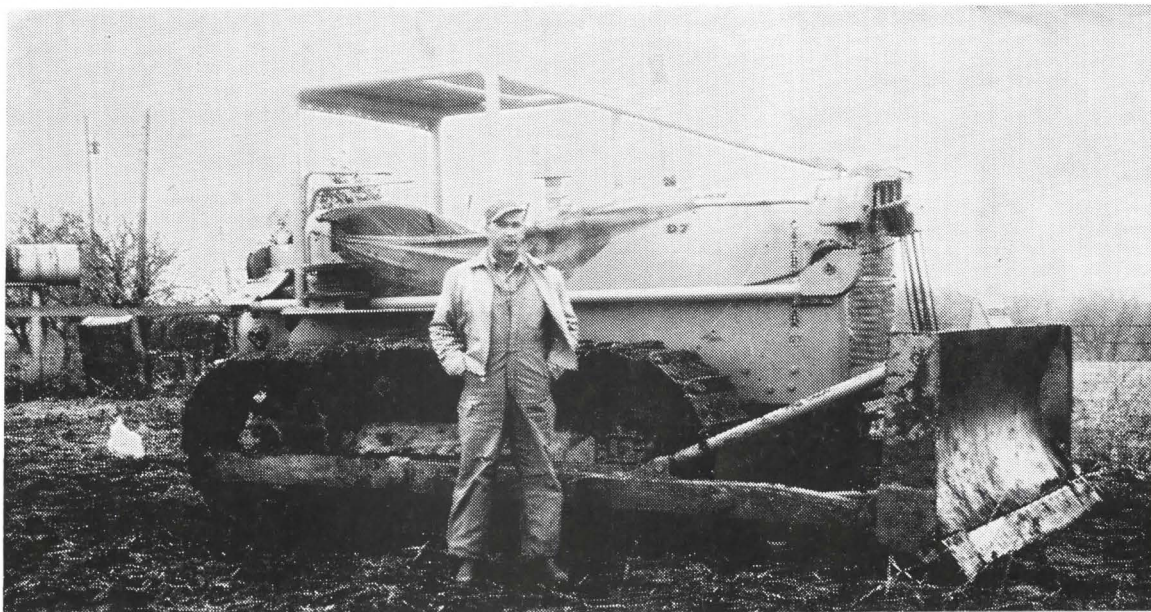
I was very happy to be present to hear T-Bone McDonald when he spoke to Appanoose county farmers the second time last month. I hope his message was absorbed by all who were in attendance. Appanoose county cannot help but benefit by acting on some of his suggestions.

I realize that Appanoose county has made great strides this past year in the watershed promotion program. There is still much to be done. Do not hesitate to ask for help at any time if it is possible for me to be of assistance in a legislative capacity.

Iowa Soil and Water

Henry Burgher

Soil Conservation Contractor



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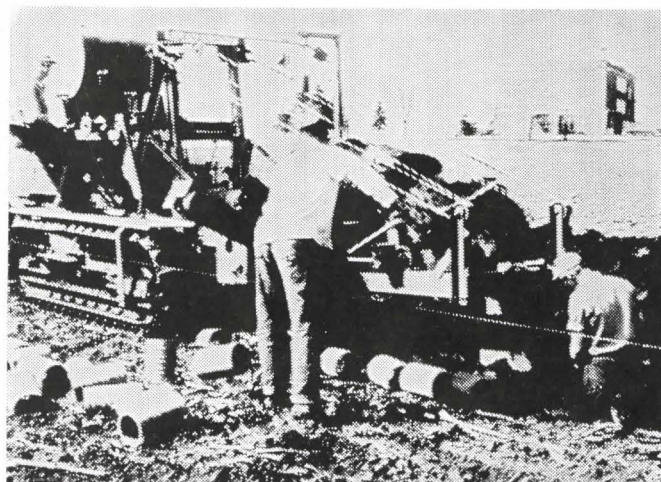
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PHONE: 50

PROGRESS—

(Continued from page 25)
to 26,000 soil conservation district cooperators and 9,000 other farmers in 1960. More than 20,000 farmers applied one or more soil and water conservation practices. Following are some of the most significant of the conservation measures installed during the year.

In each case PRACTICES is on the line preceding Total Accomplishments.

Conservation Cropping Systems

Unit	1960	To Date
Acres -----	475,000	5,800,000
Contour Farming		
Acres -----	147,000	3,573,000
Strip Cropping Systems		
Acres -----	23,000	408,000
Grassland Renovation		
Acres -----	15,000	189,000
Pasture Improvement		
Acres -----	28,000	259,000
Farm Windbreaks		
Acres -----	1,500	43,000
Tree Planting		
Acres -----	1,800	10,500
Woodland Improvement		
Acres -----	1,500	28,000
Wildlife Area Treatment		
Acres -----	4,900	48,000
Erosion Control Structures		
Number -----	720	7,200
Farm Drainage		
Acres -----	55,000	1,936,000
Terraces		
Miles -----	3,000	40,000
Grassed Waterways		
Acres -----	4,400	97,000

Watershed Protection Program

Iowa is among the top ten states in the nation in the development of "watershed in action" projects, Mendell reported. An inventory of watershed needs shows over 200 watershed areas having problems of erosion damage, flood control, and water management problems upon which project action is needed.

Within these watersheds, 4.8 million acres are in need of intensive treatment. Erosion damage reduction is needed on 1.6 million acres involving agricultural land on about 50,000 farms. Floodwater damage reduction is needed on 1.7 million acres and affects 32,000 farms. Intensive water management involving drainage and irrigation is needed on 3.5 million acres involving 21,000 farms.

To date, soil conservation districts and local farmer groups have submitted 49 applications to the State Soil Conservation Committee for assistance in planning and carrying out action programs of the type authorized by Public Law No. 566 commonly known as Watershed Protection and Flood Prevention Act. Forty-one of these applications have been approved for investigation and planning assistance.

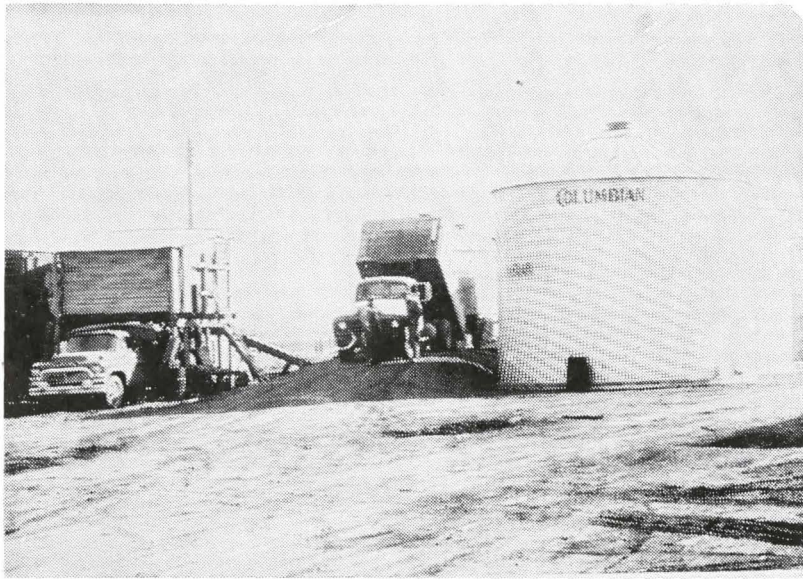
Soil Conservation Service watershed technicians have provided surveys, investigations, and studies on 38 of the watersheds authorized by the State Committee for planning assistance and work plan development, according to Mendell.

Iowa Soil and Water

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Moulton, Iowa



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Crop rotation, contour cultivation for erosion control, and similar modern methods of promoting farm prosperity are very important. This bank is strongly in favor of making safe loans, giving advice, or doing anything that contributes to the permanent welfare of our farmer friends.

First National Bank



Centerville, Iowa

To our Friends of Appanoose County

The Farmers

Please accept this invitation to come in and visit with us regarding any financial matter.

We will welcome your patronage.

Iowa Trust & Savings Bank



Centerville, Iowa

Office at Moravia, Iowa

Non-Profit Org.

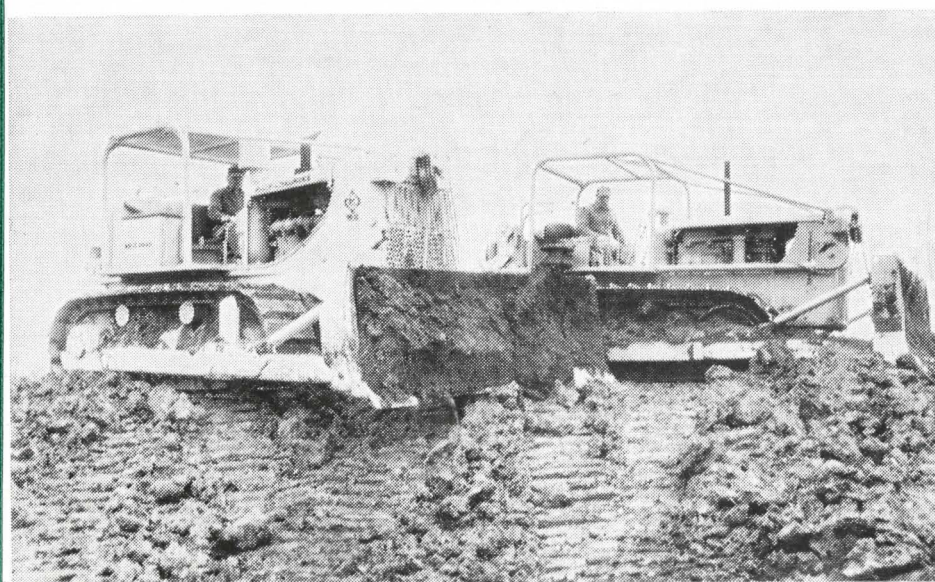
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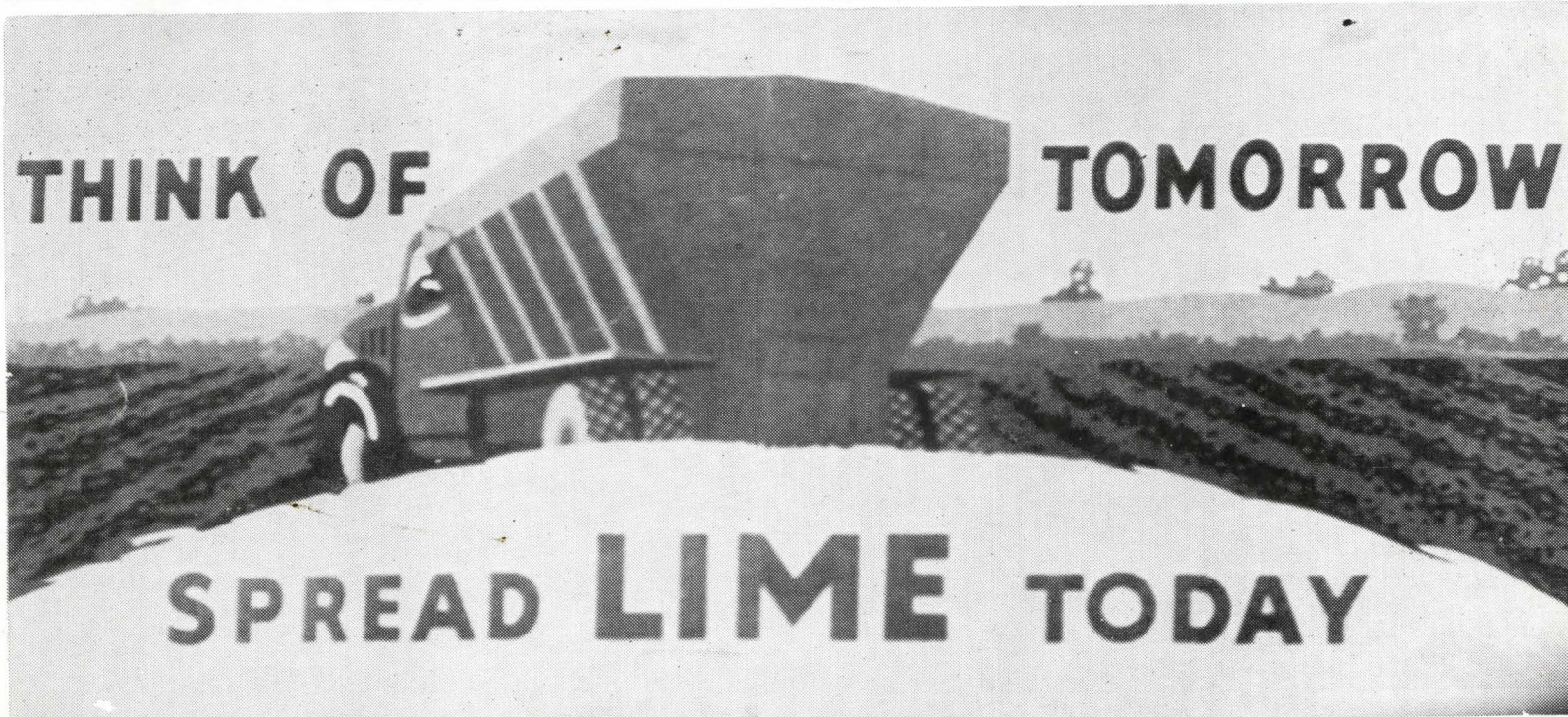
Soil Conservation Contractors



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