



Sediment is our worst water pollutant! It is already beginning to fill Rathbun Lake. It has completely filled the Moulton Reservoir, forced enlargement of both Centerville Reservoirs and consumed vital water space in the Mystic Reservoir. What can we do about it? (1) Get busy applying terraces, contouring and other conservation practices on all sloping croplands of our watersheds; especially above our reservoirs. (2) Replace gullies with tall grass waterways and sediment detention structures on all farmland. (3) Establish birdsfoot trefoil and tall grass on all pasture areas and plant conifers on new woodland fields. (4) Use lime, fertilizers and soil netting to guarantee good vegetation on critical roadside slopes and ditches. (5) Trap sediment to fill gullies behind conservation-road structures such as shown on the front cover of this report. A complete "ridge-to-river" attack on this tremendous pollution problem was completed this year in the Moulton Watershed. Take a drive sometime west of Moulton, Iowa, and see what those people have done to improve their environment.

Cover photo located on a county road at the J. Frank Daniels farm, Moulton Watershed. This conservation-road structure uses an 18" diameter pipe spillway to replace two 60" road culverts!

1970 ANNUAL REPORT

Appanoose County Soil Conservation District

Agricultural Bldg., 12th and Washington

Centerville, Iowa

Appanoose County Soil Conservation District State of Iowa



GOVERNING BODY: Left to Right: Leon Kauzlarich, Chairman; Leland Davis, Ronald Turk, Tom Martin and Roger Wells, Commissioners

Assisted By

Harold D. Holder Extension Director and District Secretary

1970 PERSONNEL — STATE EMPLOYEES

Jack Langford Conservation Aid
Marsha Stufflebeam State Clerk
Dorothy Faust State Clerk

SOIL CONSERVATION SERVICE

William E. Stark District Conservationist
Robert D. McNeal Soil Conservation Technician
Clarence E. Thomas Conservation Aid

AREA SOIL CONSERVATION SERVICE ASSISTING THE DISTRICT

John J. Eckes, Fairfield Area Conservationist
Marion P. Clark, Fairfield Agric. Engineer
Thomas Brown, Fairfield Agric. Engineer
Richard Rovang, Fairfield Agric. Engineer
Stanley R. Simmons, Fairfield Civil Engr. Tech.
L. Dale Lockridge, Fairfield Soil Scientist
Margaret L. Dickey, Fairfield Area Clerk

CHARITON VALLEY

RESOURCE CONSERVATION AND DEVELOPMENT

Charles McCarty, Centerville RC&D Coordinator
Leo Duree, Centerville Civil Engr. Tech.
Nancy Spry, Centerville Clerk
Sharon Broshar, Centerville Clerk
Marcia Davis, Centerville Clerk

Calendar of Events — 1970

JANUARY

The Soil Commissioners passed a resolution requesting the enlargement of the Appanoose-Monroe Resource Conservation & Development Project to include Wayne and Lucas Counties. They also endorsed the suggestion that the four county project be called The Chariton Valley RC&D Project.

A P.L.-566 application for the Iowa portion of the Blackbird Creek Watershed was prepared and approved by the Commissioners. This area is located in Southwest Appanoose County and its runoff waters drain into Lake Thunderhead just below the Iowa border in Missouri.

FEBRUARY

The PL-566 application for Blackbird Creek Watershed was approved by the Appanoose County Board of Supervisors and submitted to the Iowa State Soil Conservation Committee for approval.

The District assisted the city of Centerville and the Appanoose County Zoning Commission in preparing RC&D project proposals for aerial photo mosaics. These will be used in resource, land use and conservation planning of their areas of jurisdiction.

MARCH

Marsha Stufflebeam attended the State Clerk's meeting at Fairfield, March 24th.

Commissioners, Ronald Turk and Tom Martin, attended the Regional Soil Conservation meeting at Ottumwa, March 11. Turk reported that the State Soil Conservation Committee had no schedule for a preliminary work plan on South Soap Creek Watershed.

The Commissioners biennial election was held March 20 in conjunction with the annual County Watershed meeting. Roger Wells, Ronald Turk and Tom Martin were elected for terms of 6 years, 2 years, and 4 years respectively.

The vegetative seeding bid on the Moulton Watershed was awarded to John P. Appler, Moulton, Iowa. This is the last contract for the watershed and will protect the critical areas of structures A-1, D-10 and F-14.

At the regular Commissioners' meeting, Leon Kauzlarich was elected Chairman of the new five man board. He succeeds Ronald Turk who steps down from the chairmanship after serving two years.

APRIL

Commissioner Tom Martin and Bill Stark, D. C., were among five local people who attended the Governor's meeting on Local Action for Environmental Health, April 16, in Des Moines, Iowa.

Notice was received that the Blackbird Creek Watershed was approved by the State Soil Conservation Committee. Most of this District's contribution to the watershed will be conservation land treatment practices.

Wet weather has delayed seeding in the Moulton Watershed. However, the District has obtained some certified crown vetch and reed canarygrass to provide special test plots for these forages on the Appler farm.



Shown here is the Executive Board of the USDA Rural Development Committee of Appanoose County, Iowa. Left to right, Chuck McCarty, RC&D; Doyle Hampton, ASCS; Harold Holder, Ext. Service; John Humphrey, FHA; Bill Stark, SCS. Member not shown is Lawrence Labertew, F.N.S. This technical action group has had much to do with the development of many local projects such as: County Watershed Association, County Civil Defense, Pasture Improvement Project; Conservation Needs, Food Stamp Program, Regional Planning; Rathbun Zoning, County Sewer Ordinance, Rural Renewal, RC&D, Rural Water Program and County Sanitary Land Fill Program.

MAY

Ronald Turk and Bill Stark attended a Blackbird Creek Watershed meeting at Unionville, Missouri, May 4. Soil Conservation Service officials from the Missouri State Office explained the work plan procedures and local responsibilities to the large crowd.

The District's long range program and Annual Plan were reviewed and approved.

Contracting Officer, Leland Davis, reports that the seeding on the last three structures in the Moulton Watershed has been completed and approved.

The resignation of Marsha Stufflebeam, State Clerk, was accepted by the Commissioners effective June 5th. Marsha is leaving for Denver, Colorado, to seek employment there.

The annual District Speech Contest was held at the regular Commissioners meeting, May 26th. This years subject was, "Youth's Role in Soil and Water Conservation." Four excellent speeches were rated as follows: Marvin Martin, 1st; Debbie Caylor, 2nd; S. Curtis Burger, 3rd; and Darrell Koehler, Honorable Mention.

JUNE

A special meeting was called by the commissioners to interview 12 applicants for the vacant State Clerk's position. Dorothy (Mrs. Robert) Faust was selected for the job and will begin work June 7.

Jack Langford, State Conservation Aid, will transfer to the Story County Soil Conservation District so that he can continue his engineering studies at Ames this fall. Jack has been a great help to this District and we wish him success in his engineering career.

NYC Enrollee, Diane Cardani, started summer work program here June 15. She will learn office procedure, typing and filing methods while she is here.

A request was received from the Rathbun Regional Planning Committee for a Resource Conservation Inventory and Plan of the drainage area of Lake Rathbun.

The PL-566 construction in the Moulton Watershed has now been completed. Farmers will be responsible for maintaining their conservation practices on the watershed areas. A small tax levy has been set up by the Board of Supervisors to maintain the structures built with the PL-566 funds.

JULY

Clarence (Ed) Thomas, SCS Conservation Aid, has transferred from the Centerville Work Unit to the Soil Investigation Unit working out of the State SCS office. Ed's new job will involve making soil borings for structure foundations.

The District Commissioners submitted a Cooper Creek Structure Proposal to the RC&D County Steering Committee.

The Regional Soil Commissioners meeting was held at the Holiday Inn, Ottumwa, Iowa. July 15, Debbie Caylor represented the Appanoose District in the Speech Contest in place of Marvin Martin who was unable to attend. Debbie placed 2nd in the stiff competition.

Kathryn and William Vinzant were selected District winners of Division I in the annual Register and Tribune Contest. Keith Stradley was selected winner of Division III. Both winners now advance to the Regional competition.

Robert McNeal, Soil Conservation Technician, attended 2 weeks training at Lincoln, Nebr., July 12-24. His course of studies involved Erosion Control Practices.

AUGUST

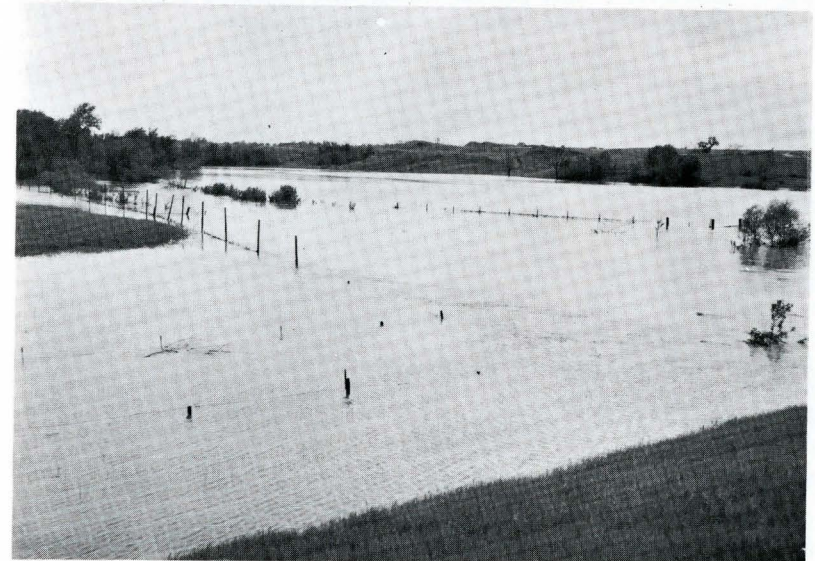
Commissioners, District Conservationist, and Appanoose County Board of Supervisors made a maintenance check of the Moulton Watershed. The findings of their annual inspection is found elsewhere in this report.

Catfish to stock 40 Appanoose County ponds were delivered from the Fairport Hatchery near Muscatine. This brings the total farm ponds in the District stocked with fish to 1,564.

U. S. Representative John Kyl and members of his staff made a tour of the Agriculture Building, also visiting in our District Office. He was particularly interested in Cooper Creek Watershed and its effect on the flooding below Rathbun Dam.



Critical erosion and sedimentation along public roads costs county taxpayers thousands of dollars in annual road repairs. In addition the dangers of washed out culverts and overturning farm tractors brings accidents and law suits to haunt the county government. On May 13, 1970, a 3 inch rain caused this extensive damage to a new road project in the Rathbun Dam area. Conservation officials estimate there are over five hundred active critical areas such as this on Appanoose County roads.



Cooper Creek in flood stage shown here May 14, 1970, north of Centerville, Iowa. Flooding such as this is a common sight every year. The large drainage area and narrow valley causes severe flooding problems even with some of the less intensive storms. Flood damage from this creek also occurs downstream on many acres of the Chariton River bottomland.

SEPTEMBER

Commissioner Ronald Turk, and State Clerk, Dorothy Faust, attended the Commissioners' Annual Conference at Holiday Inn in Waterloo, September 13, 14, 15.

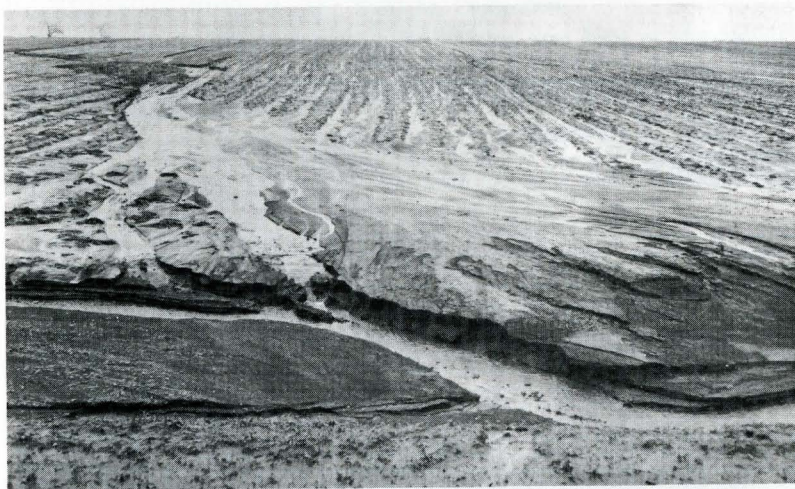
Mary Ann Hart, NYC Enrollee, started work in our office for the duration of the school year. Mary will work two hours daily assisting with typing, filing and other office procedures.

The District Commissioners recommended a thorough investigation of the critical erosion problem on the Centerville Campus of the Indian Hills Community College, adjoining street, and the adjacent area of the Belle Woodin Park. An RC&D project proposal is to be presented to the Appanoose County RC&D Steering Committee by the College, City Council and Fair Board.

County Engineer, Ken Bucklin and Waldo Imus, Chairman of the County Conservation Board attended the regular District meeting to discuss Cooper Creek runoff control measures. They desire to cooperate if possible with the District and the RC&D in a multi-purpose structure on a county road between Numa and Jerome.

OCTOBER

A soil conservation Cooperative agreement was signed by the County Board of Supervisors with the District to cover all county road right of way in Appanoose County (approximately 6400 acres). A critical erosion inventory and conservation plan will be prepared soon.



Here is some of Appanoose County's property tax base which is eroding away with every downpour. Sloping cropland, unprotected by terraces with tile or grass outlets should not be cropped in this manner. Two parallel terraces in this field would cut soil losses to 3 tons per acre per year. Also the county would have much less silt, lime and fertilizer to clean from its road ditches and culverts.



Flood of May 14, 1970, had already dropped three feet when this picture was taken north of Rathbun, Iowa, on Little Walnut Creek. Uncontrolled watersheds such as this continue to create erosion problems upstream and flood and sediment damages downstream. Landowners should work together with the Appanoose County Soil Conservation District to conserve the soil and water resources of the county.



The most damaging flood of 1970 occurred on May 14, 1970, in the bottomlands of Cooper Creek, Walnut Creek and Little Walnut Creek in Appanoose County. Caused by a 3-5 inch rain in the uplands the floodwaters backed up the Chariton River to the Rathbun Dam bringing a 16 foot rise on the river flood gauge pictured here 1 mile below the dam. U.S. Corps Engineers reported the release rate at the dam was only 11 cubic ft./sec. during that time. Flooding from the three uncontrolled watersheds caused extensive damage on the Chariton River bottomlands for 20 miles to the Missouri border.

George Mulder, Mainstream Trainee, is now employed in our office assisting with sub-professional duties. He is also taking 6 hours of in-school training each week to complete his high school equivalency certificate.

An SCS Program Inspection was conducted October 28-29 by the Area and State Office Personnel. All aspects of Work Unit operations and management were reviewed and findings noted.

William Stark, D. C. conducted a conservation field trip with the 4th grade school class at Sharon Bluffs State Park. Mark Uhlenhake, State Conservation Officer, also assisted with the conservation study.

NOVEMBER

The District's annual conservation awards were presented at the 44th Annual Alfalfa Banquet to Roy Argo, Bob Barrickman, Addy Young and Byron Tait. These conservationists were selected for their conservation work on their own farms as well as their influence on conservation in their neighborhoods.

The annual Register and Tribune Award honors were presented at the Commissioners meeting to this years winners, William Vinzant and Keith Stradley. This is the 10th year that the District has co-sponsored the Iowa Soil Conservation Achievement Awards Program with the Register and Tribune.

The District ordered 10 copies of the booklet "Conservation Careers" to be distributed to the Guidance Departments of the high schools in the county.

DECEMBER

State Representative, Delmont Moffitt, met with District Commissioners at their regular monthly meeting. He discussed with them such things as Budget requests and the Iowa Conservancy District Bill which will be coming before the 1971 Legislative session; District annual plans, and long range programs, water pollution and environmental problems and conservation road structures on county roads.

A Resolution of Interest and Intent was formulated and approved by the District Commissioners on the Soap Creek Watershed. Commissioner Tom Martin was named representative of the district to the four county Soap Creek Watershed Organization Committee. This resolution is the first step in enlarging our South Soap Creek Watershed to include all of the sub-watersheds of Soap Creek in the adjacent areas of Monroe, Wapello, and Davis Counties.

Commissioner Ron Turk was named to correspond with Putnam Co., Missouri Soil Conservation District Supervisors concerning the status of Shoal Creek Watershed in that District. Our watershed inventory shows 56,950 acres of land lie within the Shoal Creek Watershed in Appanoose County.



Recent conservation needs studies found 42,851 acres of woodland in Appanoose County, Iowa, most of it oak, hickory, maple, cottonwood, ash and river birch with very low annual income potential. As an alternative, most farmers are clearing their timber and seeding birdsfoot trefoil and grass with much higher income possibilities. One of the best managed woodlands in Appanoose County is this hardwood stand found at Pete Sidles farm in the Walnut Creek Watershed north of Jerome, Iowa. It is one of 152 items listed in the District's Resource Inventory of Recreation, Natural, Historic and Scenic Areas.



Soil erosion endangers an "instant campus" building at the Indian Hills Community College at Centerville, Iowa. Critical areas such as this sparked a college request for erosion control assistance through the Chariton Valley Resource Conservation and Development Project. RC&D County Steering Committee members and their field of representation are: Bill Dillon, Centerville, Chairman, Business; Leon Kauzlarich, Mystic, Soil Conservation District; Doyle Anderson, Moulton, County Board of Supervisors; Lee Benz, Moravia, Agriculture; Henry Little, Centerville, Civic Groups; and Boyd O'Briant, Centerville, Industry.

Accomplishments With SCS-SCD Technical Assistance By Watershed Groups

FISCAL YEAR 1970 — July 1, 1969 - June 30, 1970

PRACTICES

	SCD Coops	Basic Plans	Revisions	Group Cons. Plans	Brush Cont.	Diver-sion	Farm Ponds	Fish Pond Stock	Stab. Struc.	Water Way	Open Drains	Contour Farming	Past Plant.	Ter-races	Tree Plant	Wild Hab. Dev.
Watersheds Unit	No.	No.	No.	Ac.	Ac.	Ft.	No.	No.	No.	Ac.	Ft.	Ac.	Ac.	Ft.	Ac.	Ac.
North Chariton	2	1	1		0.5	250	2	1		4.9			32			1.0
Iconium													58.5			1.0
Maine	4	2			0.3	4,250	2	1		3.5	3,750	39	389.1			
North Soap	1				28.0								224.5			
South Chariton	1			1	3.0	275	2	2		1.6		30	170.0			
Walnut City		1						1					22.7			
South Soap					83.3	175	3			5.2		20	601.6			1.0
Little Walnut	1	1			1.7			1		3.2		110	88.3			
West Udell	1				20.0		1	1		2.7	2,500	15	350.1			
Walnut	1	2			7.0	600	1	2	1	1.5	150		322.8	1,500		
Cooper Creek	2	2	4		38.0	750	4	5		11.6	4,200	121	542.6	4,025		18.2
Sharon Bluffs	1	2	1		3.0	2,050		3	2	5.3		17	142.8	1,700	5.5	7.0
Mount Ararat	1	3		1	17.0	300	3		1	3.8	800	151	231.0			5.0
Fox	2	1	1	1	36.0	1,150	3	3	1	2.9	2,850	273	619.9	2,149		
Shoal	2	3	1		70.5	4,625	4	10	1	10.6	2,400		403.0			
Livingston	1	2	1		82.6		2	2	1	6.2		40.5	325.1		6.5	4.5
Exline	2	2	1		155.4		10	2		14.7			803.2			10.5
Moulton		1	5	1		850		1	3	5.0			159.2			2.3
Fabius-Carter		1				610		3				20	96.0	2,300		4.0
Dean		1			62.0				1	0.3			107.0			
District Total	22	24	15	4	608.0	15,885	37	38	11	83.0	16,650	836.5	5,689.0	11,674	12.0	55.0

Conservation Award Winners — 1970

FRANKLIN TOWNSHIP 4-H CONSERVATION CONTEST

(Sponsor—Franklin Farmhands 4-H Club)

(Trophies by - Appanoose Co. SCD and Franklin Farmhands 4-H)

Derrald Bauer—First Place

Melvin Millner—Second Place

Honorable Mention—Melvin Turk, Carl Burgin, Lee Schmall

IOWA SOIL CONSERVATION ACHIEVEMENT AWARDS PROGRAM

(Sponsor—Des Moines Register & Tribune, Iowa Farm & Home Register)

District—Division I

Kathryn & William Vinzant, Mystic, Iowa (Owner-Operator)

District—Division II

Keith Stradley, RR 1, Centerville, Iowa (New Cooperator)

IASCD SOIL CONSERVATION SPEECH CONTEST

(Sponsored by the Ladies Auxiliary of the Iowa Association of Soil Conservation District Commissioners and Grinnell Mutual Reinsurance Company. Sponsors on the District level were Appanoose County Soil Conservation District and Appanoose County Farm Bureau.)

1st Place—Marvin Martin, Plano, Iowa

2nd Place—Debbie Caylor, Udell, Iowa

3rd Place—S. Curtis Burger, Udell, Iowa

Honorable Mention—Darrell Koehler, Unionville, Iowa

OUTSTANDING CONSERVATIONISTS—SOIL COMMISSIONERS AWARD

Roy Argo, Melrose, Iowa

Bob Barrickman, Oskaloosa, Iowa

Byron Tait, Udell, Iowa

Addie Young, Centerville, Iowa



Here's what a foreign technical visitor was pleased to see on an Appanoose County, Iowa, livestock farm in August, 1970. Showing their prize 4-H club calves to Mr. Baba A. Haidara, from Mali, West Africa, are, left to right, Martha Oden, Mr. Haidara, Phillip Oden, Dennis Exline, and Becky Exline. On his rural tour, Mr. Haidara also visited the Moulton Watershed to see erosion and flood control structures, pasture improvement and conservation practices. Mr. Haidara is Director General de l'Enseignement Technique et Professionnel B.P. 131, Bamako, Mali, West Africa.



Emerald crown vetch is one of the new plant materials the District is testing on eroded, drouthy soils. This excellent growth was obtained on the poorest soil site we could find in Appanoose County. Cooperating on this test plot in Centerville's Bradley Park were Appanoose County Board of Supervisors, Appanoose County Conservation Board, Soil Conservation Service and Appanoose County Soil Conservation District.

New Cooperators — 1970

Tom Beck	Appanoose-Monroe	Elizabeth Oden
Wm. Arnel Sleeth	Rural Renewal	Lynn Fenton
Board of Supervisors	Corp. (2)	Town of Mystic
Frank Tometich	Lazy Daz Homes Inc.	Kenneth Daniels
William Felton	C. J. Willier	Eva Tucker
Michael McGill	Area XV Community	Elbert Moore
Cleo J. Walker	College	Donald Ahee
Appanoose Co.	Scott Tucker	Wayne Tait (2)
Fair Assn.		

Basic Plans

Bob Barrickman	Appanoose-Monroe	Iowa State Conser-
Miles Dungan	Rural Renewal	vation Commission
B. D. Buchanan	Corp. (2)	Earl Lindsay
Laverne Hodges	North Fork Lakeside,	C. J. Willier
Dean Duley	Inc.	Kenneth Daniels
Ronald Turk	Area XV Community	Don Carr
Sharon Valley	College	Frank Tometich
Grazing Assn.	Town of Mystic	Glenn Patterson

Revisions — 1970

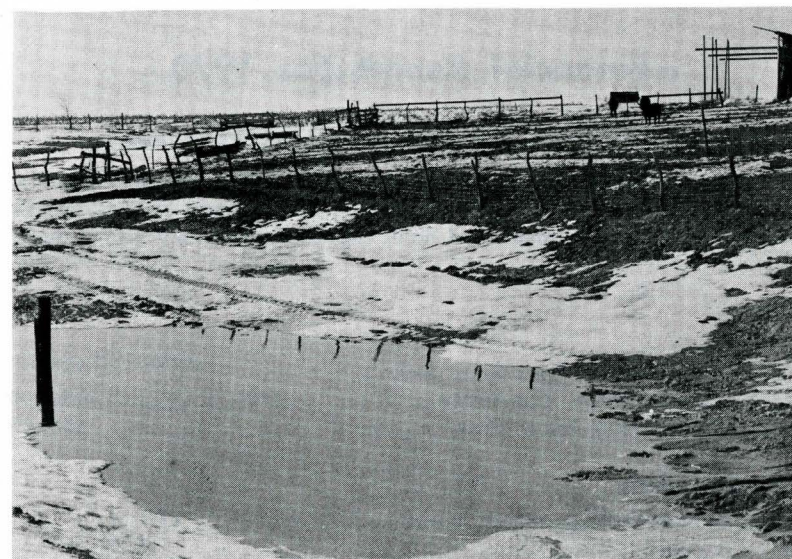
Tom Martin	Appanoose Co. Farm	Leslie Cook
Nettie Van Doren	Walter Daniels	George Lane
Guy Harris	M. C. Anderson	Dorothy Secrest
Doyle Anderson	J. R. Lindley	Sigel Mikels

Active Agreements To Date December 31, 1970

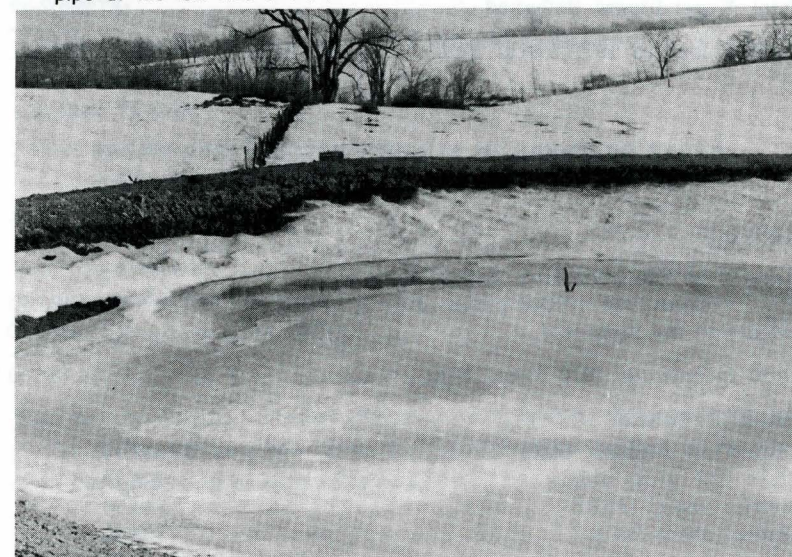
	No.	Acres
District Cooperators	1003	236,429
Cooperators with Basic Plans	737	145,236

Clerical Report Summary — 1970

Office Callers	807
Telephone calls placed & received	696
News items prepared by SCD & SCS Staff	49
Contests	4
Meetings attended by SCS & SCD Staff	94



Polluted water from Everett Jones' cattle feedlot won't drain uncontrolled into Rathbun Lake any more. The new pollution control practice in the foreground is an intercepting channel and settling basin designed to catch all of the polluted water and solids from the feedlot in the background. This area is designed for cleaning out the solid matter when it has dried. The liquid slowly drains by gravity from this basin through the perforated stand pipe at the left into a . . .



collecting basin immediately downstream. This second treatment unit is designed to hold at least 6 inches of runoff from the feedlot and basin areas. The highly nitrated liquid is stored here as irrigation water until dry periods in the summer and fall. Then, during non-runoff periods, a valve is turned and the water slowly drains into the large reed canarygrass waterway in the background. Reed canarygrass was selected for the third treatment because of its vigorous growth. It uses more water and nitrogen than any other grass.

Financial Report For 1970

STATE OF IOWA—1M BUDGET—FISCAL YEAR 1969-70

(For Commissioners' mileage, meals, and hotel, office supplies, printing, prizes for contests and office expenses.) (Commissioners do not receive salaries: only mileage, meals and hotel expenses when they attend meetings).

INCOME:

Fiscal year allocation from State Soil Conservation Committee	\$500.00
Total Income, 1970 Fiscal Year	\$500.00

EXPENDITURES:

Commissioners mileage, meals, hotels	\$216.51
Office Supplies	38.25
Printing	55.45
Prizes for contests	38.46
Material for Demonstrations	4.50
Office Expense	49.22
Total Expended	\$402.39
Total Expenditures deducted	\$402.39
Carried over to 1971 Fiscal Year	\$ 97.61

STATE OF IOWA—2M BUDGET—FISCAL YEAR 1969-70

(For salaries, mileage, and purchase of equipment)

INCOME:

Fiscal Year allocation from State Soil Conservation Committee July 1, 1969	\$4,486.00
Allocation for State Aid	300.00
Total Income for 1970 Fiscal Year	\$4,786.00

EXPENDITURES:

State Clerk's gross salary	\$3,837.17
State Aid gross salary	224.14
District share IPERS	140.56
District share FICA	194.99
Travel expense for Clerk	30.59
District share health ins.	66.00
Total Expenditures	\$4,493.45
Returned to State Soil Conservation Committee, June 30, 1970	\$ 292.55

DISTRICT WATERSHED MAINTENANCE FUND

(County Flood & Erosion Control Fund)

Initial ¼ mill tax levy (Agric. lands)	\$ 2,000.00
Watershed Maintenance January 1, 1964 to date	256.19
Balance January 1, 1970	\$ 1,743.81
1970 Budget	\$100.00

EXPENDITURES:

Balance January 1, 1971	\$ 1,743.81
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U.S. GOVERNMENT WATERSHED PROTECTION AND FLOOD PREVENTION PUBLIC LAW 566 FUND

(Appanoose County Soil Conservation District—Calendar Year 1970)

RECEIPTS:

U.S. Government PL-566 Fund (Soil Conservation Service)	\$11,396.68
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EXPENDITURES:

Robert McConnell & Henry Burgher	
Completion Part 5, Moulton Watershed	\$ 9,880.78
John Appler, seeding	1,515.90
Total Expenditures	\$11,396.68
Total Expenditures Deducted	\$11,396.68
Account Closed June 30, 1970	0.00

(This account may be reopened whenever watershed construction contracts are let and Public Law 566 Funds are transferred to the District for payment on completion of such contracts.)

Appanoose County Soil Conservation District Agriculture Building Account

CENTERVILLE NATIONAL BANK

ANNUAL RECEIPTS:

Cash on Hand, January 1, 1970	\$ 1,870.91
Dec. Interest & Principal on Ag. Bldg. & lots (Singley)	1,200.00
July Interest & Principal on Ag. Bldg. & lots (Singley)	1,832.50
Dec. Interest & Principal on Ag. Bldg. & lots (Singley)	1,200.00
Transfer from Home Federal Acct.	2,500.00
Total Cash Receipts	\$ 8,603.41

ANNUAL EXPENDITURES & TRANSFERS:

Cashier's check to purchase \$5500 note from FHA	\$5,508.75
Speech contest prizes	15.00
Dues NACD	110.00
Dues IASCD	100.00
Lynn Richardson (painting District signs)	100.00
Pancake Day donation	10.00
IBM for typewriter	486.00
Home Federal Acc't (Deposit in Savings)	2,000.00
John Applr (meal at Regional Mtg.)	2.50
Rolodex file	34.95
Service Charge	.72
	\$8,367.92
Total Expenditures & Transfers	\$ 8,367.92
Cash on Hand, January 1, 1971	\$ 235.49

ANNUAL NET WORTH STATEMENT

Cash on Hand, Centerville National Bank 1-1-71	\$ 235.49
Home Federal Account 1-1-71	3,748.29
Revolving Fund Balance (includes Petty Cash)	303.78
Shares Bloomfield Experimental Farm	540.00
Terracer & Scoop (est. value)	100.00
Real Estate Mortgage on Ag. Bldg. & lots	17,000.00
F.H.A. Loan	5,500.00
Office equipment (cost less 10%)	500.31
Total Assets	\$27,927.87
Total Liabilities	0.00
Total Net Worth	\$27,927.87

Progress Report Approved PL-566 Watersheds

MOULTON

PL-566 watershed construction was completed by July first this year. Total structural improvements are three floodwater retarding structures, one structural waterway, one channel improvement and eight of the nine planned grade stabilization run-off control structures. Grade stabilization structure A-4 was deleted from the work plan for lack of one easement. PL-566 construction cost of the work completed this year was \$70,927.12. As co-sponsors with the District, Appanoose County Board of Supervisors provided all costs allocated to the county roads for structures B-9, E-11, D-10 & F-14.

MAINTENANCE AND INSPECTION OF WORKS OF IMPROVEMENT

The Moulton Watershed was given its annual maintenance inspection August 25th. Those making the inspection were: Leon Kauzlarich, Ronald Turk, Roger Wells and Leland Davis, Soil Commissioners; William E. Stark, District Conservationist; Carl Evans, Arthur Streepy and Doyle Anderson, Appanoose Co. Board of Supervisors. General comments concerning the inspection are:

I. 100% of the farmland in the watershed is under district agreement and basic conservation plans prepared. Ownership turnover of the land is approximately 4% annually. Of the 44 farmers now in the project, all have active conservation plans. All the planned land use treatment measures have been installed including 15.4 miles terraces, 4.0 miles diversions, 42 acres waterways constructed, 60 detention structures and ponds built and stocked with largemouth bass, bluegills and channel catfish, 2,000 acres of pasture and marginal cropland have received lime, fertilizer and seed with 75% sowed to permanent birdsfoot trefoil. Five acres have been planted to trees and protected from grazing.

II. No flooding of any farmland whatsoever within the benefited area of the Moulton Watershed this year. Heavy rains produced local flooding in all other watersheds of the county. The Appanoose County Board of Supervisors will save approximately \$33,200.00 in bridge replacement costs below structures B-5 and A-1. These narrow bridges will soon be replaced with culverts designed to receive the lower run-off rates.

III. No maintenance is needed on the principal spillways. B-100 drop spillway has some seepage but it is not considered serious. The B-19 drainage and waterway below B-8 emergency spillway needs soil and reed canarygrass sod to fill eroded spots. No maintenance is needed on reservoir areas. It will be necessary to cut small trees and paint stumps on all embankments especially B-9 and E-11. Spot spray would be better for removing this brush if it were controlled to prevent loss of desirable vegetation. Small trees in flood channels below structures B-2, B-7, E-11, and B-100 should be sprayed or cut. If cut, the stumps will need painting. B-9 bank cutting should stabilize itself. The bank cutting on B-100 will require pipe

culvert drops for side drains into the channel. Fences on structures B-2 and B-7 need to be repaired and tightened.

The Appanoose County Board of Supervisors have agreed to supply equipment and labor for maintenance needs under the following conditions:

- (1) That the District certify that the landowners involved will not do the maintenance work.
- (2) That the District supply a damage waiver signed by the landowners involved.

The District has written to the State Department of Soil Conservation for preparation of the legal waiver document required. The Department of Soil Conservation has turned this matter over to the Attorney General for proper handling.

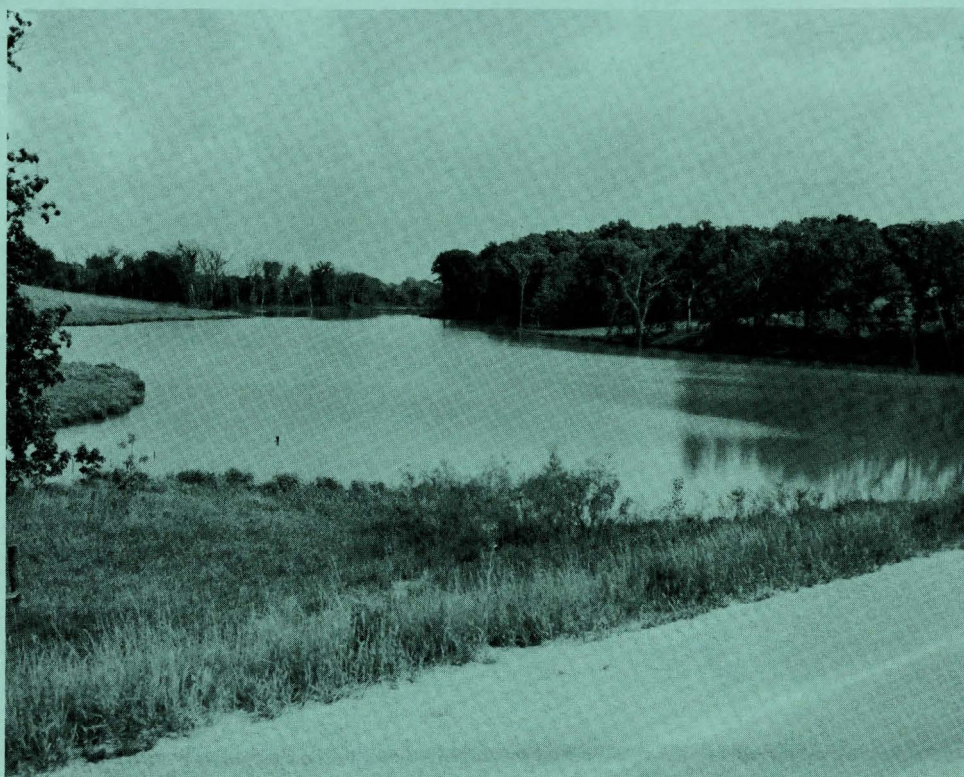
The Soil Conservation Service will provide any technical services needed and available for preparing plans, designs, and specifications for needed operation and maintenance of the works of improvement.



Cooperation and Assistance

The Soil Commissioners rely upon cooperation and assistance from other agencies, organizations and individuals to help in carrying out the policies and purposes of the District Program. A special "thanks" is extended to those who are continuing to work through their Soil District for an effective soil and water conservation program:

Farmers of Appanoose County and their organizations
Soil Conservation Service
State Soil Conservation Committee
Cooperative Extension Service and their organizations
Agricultural Stabilization and Conservation Service
Farmers Home Administration
Iowa Conservation Commission
U. S. Fish and Wildlife Service
U. S. Forest Service
Iowa and National Association of Soil Conservation Districts
Soil and Water Conservation Contractors
Appanoose County Board of Supervisors and County Officers
Appanoose County Watershed Association and Directors
Cities, Towns and Departments
Newspapers, Radio and Television Stations
Appanoose County Businessmen, Ministers, Equipment Dealers and their organizations
Rural Development Committee
Office of Economic Opportunity



The conservation-road structure is one of the newer features of the Appanoose County Soil Conservation District Program. Planning and constructing these multi-purpose structures requires understanding and close cooperation between neighboring landowners, the Appanoose County Board of Supervisors and County Engineer, the Soil Conservation District Commissioners and the U.S Soil Conservation Service. Conservation and environmental benefits include erosion control, sediment storage, watershed development, runoff control, water supply for livestock and other domestic uses, wildlife habitat, water oriented recreation and roadside beauty. The stored water also provides one of the few places where, if needed, water quality for specific watersheds can be monitored.

Principle spillway pipe costs are considerably less than the conventional full-flow culvert. Some or all of this savings however may be needed to increase the earth fill height. This provides the required temporary water storage area so important for runoff and flood control. Also increased highway sight-distance, bridge elimination and grade improvement produces a safer road with considerably less maintenance cost to the taxpayers. Elimination of costly water gaps in right-of-way fences is another benefit that most landowners appreciate. This conservation-road structure is located between Centerville and Corydon, Iowa, on the Appanoose-Wayne County line $\frac{3}{4}$ mile north of Iowa Highway No. 2.