

March 30, 1979

Lawrence Vance, Director
Department of Soil Conservation
Wallace State Office Building
Des Moines, Iowa 50319

Dear Mr. Vance:

Enclosed are the amendments and updating additions adopted by the Davis SCD at their March 8, 1979 regular meeting, for the district Long range program.

This copy is for your files.

Sincerely

Christine H. Botts
Clerk

Encl: 1

DAVIS COUNTY SOIL CONSERVATION DISTRICT PROGRAM

Amendments and updating additions adopted at the March 8, 1979 regular meeting.

1. Replace the 1967 Pie Chart with the one developed from the 1977 District Resource Inventory.
2. Page 16 Revise the conservation practice preference list to the following order:
 - a. Terrace
 - b. Conservation tillage and contouring
 - c. Pasture planting and management
 - d. Erosion control structures and waterways
 - e. Drainage
 - f. Woodland management
 - g. Other practices
3. Include a copy of the District Resource Inventory in the long range program.
4. Adopted a statement of treatment needs to meet tolerable limits based on the District Resource Inventory and the field office work load analysis.
5. Developed district objectives to reach the five year goals set on the District Resource Inventory.

Statement of Treatment Needs to Meet Tolerable Limits

The major conservation practice needs in the district are:

PRACTICE	UNIT	TOTAL NEEDS	ACCOMPLISHED TO DATE	REMAINING TO BE DONE
Conservation Tillage	AC	58,000	4,234	53,766
Contour Strip Cropping	AC	3,500	1,623	1,877
Terraces	LF	16,000,000	4,212,063	11,787,937
Ponds	NO	2,600	2,203	397
Contouring	AC	58,000	35,500	22,500
Grass Waterways	AC	5,000	2,708	2,292
Sediment & Water Control Basins	NO	2,000	10	1,990
Erosion Control Structure	NO	2,000	600	1,400
Subsurface Drains	LF	1,500,000	335,041	1,164,959
Pasture & Hayland Planting	AC	85,000	57,875	27,125
Tree Planting	AC	4,000	433	3,567
Diversions	LF	2,000,000	1,100,000	900,000
Wildlife Upland Habitat Management	AC	20,000	11,198	8,802
Surface Drainage	LF	1,200,000	716,949	783,051

CROPLAND

The adoption and use of conservation tillage and contouring would effectively reduce and keep soil losses at or below the "T" level on all of the a and b slopes (115,969 acres). Approximately 90% of this total is used as cropland.

Terraces in conjunction with conservation tillage and contouring is needed on another 43,000 acres of "C" slope (5-9%) soils.

PASTURE LAND

Of the total 85,000 acres of pasture and hayland planting needed, it is estimated that 27,125 acres need complete improvement. A maintenance program that includes proper fertilization and rotation grazing will allow the existing pasture-stands to produce a good quality and quantity of forage through out the grazing season.

Equipment and chemicals are available in the county that will allow the land users to renovate their pastures without the need of plowing. This type of mechanical treatment will help prevent serious erosion on steep land and will also allow for limited grazing during the seeding year.

WOODLAND

The greatest need for the adequate treatment of our woodlands is proper management. In many cases, livestock exclusion is the greatest need.

The county has lost 50% of its woodland acres in the past 20 years.

A tree planting program is needed on much of the Class VI and VII land.

DISTRICT OBJECTIVES

Objective I

Assist landowners to plan for and adequately treat 10,000 acres of cropland in the next five years.

Action & Goals

- a. Provide technical and cost-share assistance, as available, in Soil Resource Areas 6, 9 and 10 to install 500,000 feet of terraces.
- b. Conduct demonstrations; tours; carry out an intensified information and education program; provide assistance to land owners to convert 20,000 acres of row crops to conservation tillage in all soil resource areas, but with special emphasis in areas 6, 9 and 10.

- c. Provide technical assistance, as available, to landusers to construct 200 acres of grassed waterways.
- d. Assist land users in all resource areas to establish 5000 acres of contouring.

Objective II

Assist land users in planning for and adequately treating 6000 acres of pasture land in the next five years.

Action & Goals

- a. Provide technical assistance, as available, to landusers to reseed or interseed 6000 acres of pasture land to grasses and legumes that will provide adequate forage during the grazing season.
- b. Appoint a pasture action committee that will conduct an intensivied information and education program encouraging good pastureland development and management.
- c. Encourage the use of conservation tillage pasture renovation equipment on soils and slopes subject to erosion.
- d. Place emphasis on good pasture management when developing resource conservation plans with district cooperators.

Objective III

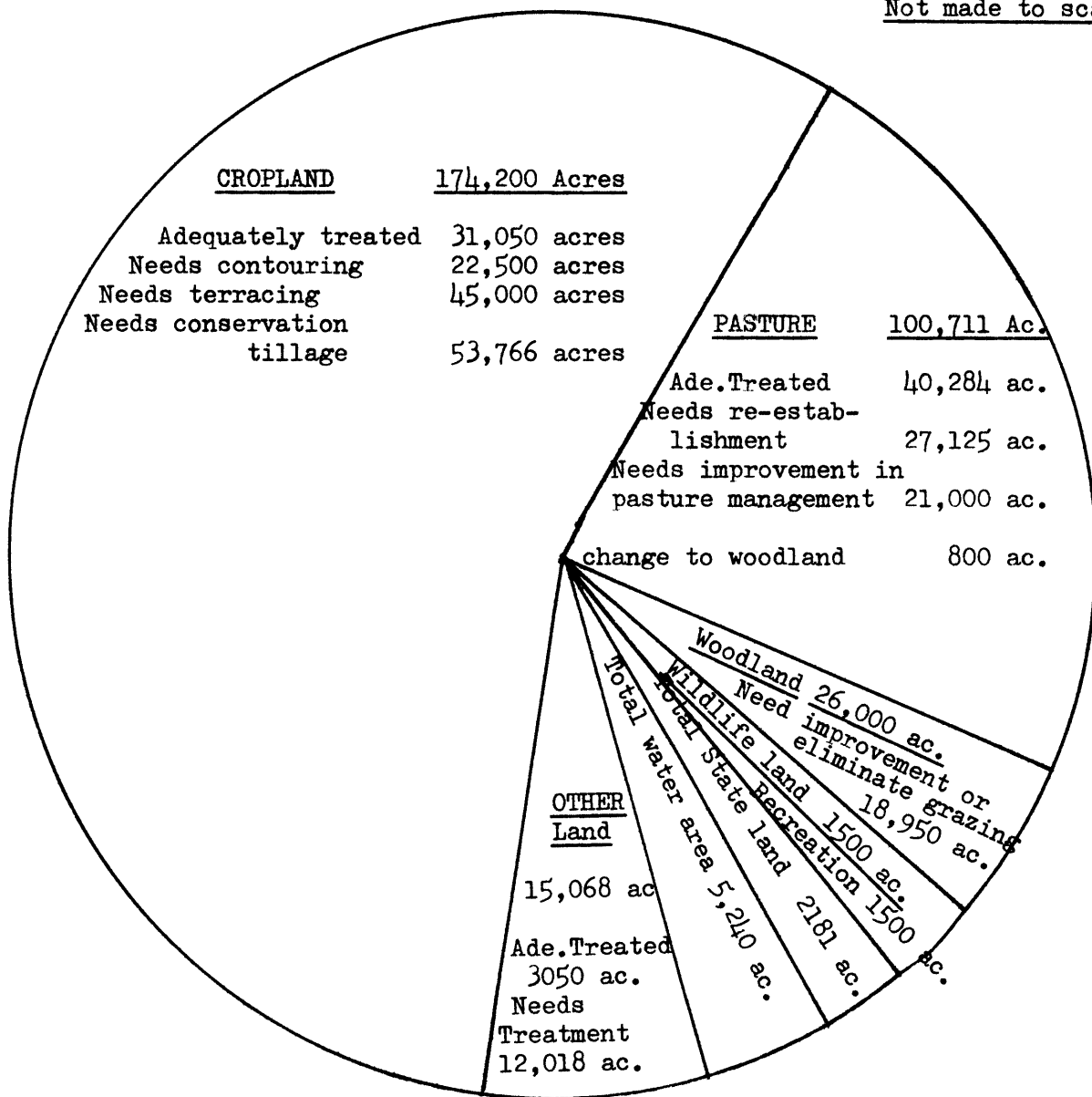
Assist landowners to plan for and develop 500 acres of wildlife habitat in the next five years.

Action & Goals

- a. Provide technical assistance to land users in developing wildlife areas around their ponds and/or odd areas.
- b. Work with the Iowa Conservation Commission biologist assigned to this area.

LAND USE AND CONSERVATION NEEDS -- DAVIS COUNTY, IOWA

Not made to scale



TOTAL LAND IN INVENTORY ----- 326,400 Acres

Information based on the 1977 District Resource Inventory and the District Work Load Analysis prepared from this inventory.

Revised 1979

SOIL CONSERVATION DISTRICT

Date Prepared: November 3, 1977

Water Erosion Sources Above Acceptable Levels		
Irrigated Cropland	0	Ac.
Non-Irrigated Cropland	2,000,000	Ac.
Pasture & Hayland	2,000,000	Ac.
Woodland	1,000,000	Ac.
All Other Lands	2,000,000	Ac.
Critical Wind Erosion	0	Ac.
Operating Units	2,000,000	Ac.
Operating Units	2,000,000	Ac.
Other Land Units	2,000,000	Ac.
Units of Government	2,000,000	Ac.
PL-566 Pre-application	2,000,000	Ac.
PL-566 Projects in Plan	2,000,000	Ac.
Development	2,000,000	Ac.
PL-566 Projects in Operation	2,000,000	Ac.

Memorandums of Understanding - Agency(s)

and Date(s)

Activity	Unit	High Priority Next 5 Yrs.	Activity	Unit	High Priority Next 5 Yrs.
		Amount			Amount
<u>Individual & Group</u>			<u>Units of Government</u>		
(103) Structural Applic.	No.	300	(119) Site Plan Reviews	No.	0
(103) Management Applic.	No.	200	(121) Resource Plans	No.	0
(111) Inv. & Evaluations	No.	100	(122) Inv. & Evaluations	No.	0
(172) Referrals Serviced	No.	100	(136) Resource Studies	No.	0
State Contracts	No.	200	(120) Govt. Agencies Asstd.	No.	0
			O&M Mgt WS & RC&D	No.	0

Activity	Unit	Total Needs	Accomplished To Date	Remaining To Be Done	High Priority Next 5 Y
		Amount	Amount	Amount	Amount
(100) Cooperators	No.	1215	1025	190	50
	Ac.	301927	217352	57575	10000
(108) Conservation Plans	No.	1215	791	424	150
	Ac.	301927	169655	135272	60000
(110) Rev. Conserv. Plans	No.	XXX	XXX	XXX	50
	Ac.	XXX	XXX	XXX	10000
Group Cons. Plans	No.	300	73	222	50
(141) Flood Plains Delineated	Ac.	0	0	0	0
(184) Soil Surveys	Ac.	326100	7039	329531	250000
<u>Conservation Practices</u>					
(682) Cropl. Adeq. Treat.	Ac.	170000	31050	212150	75000
(683) Past. & Hayl. Adeq. Treat.	Ac.	100711	10281	60427	20000
(635) Woodl. Adeq. Treat.	Ac.	25000	7050	10000	10000
(686) Wildl. Adeq. Treat.	Ac.	1500	2366	2134	0
(687) Rec. Adeq. Treat.	Ac.	3500	3093	407	50
(688) Other Land Adeq. Treat.	Ac.	15000	2050	12018	1000
(230) Private Rec. Devel. Etab.	No.	0	0	0	0
(236) Public Rec. Devel. Etab.	No.	20	17	3	0
(312) Agric. Waste Mgmt. System	No.	100	0	100	0
(342) Critical Area Planting	Ac.	6000	1031	1000	100
(378) Pond	No.	2500	2203	307	100
(380) Farmstd. & Feedlot Windbrk.	Ac.	800	211 (51)	216	0
(395) Fishpond Management	No.	2000	1610	301	100
(412) Grassed Waterway or Outlet	Ac.	5000	2700	2300	100
	No.	0	0	0	0
(440) Irrigation System	Ac.	0	0	0	0
(449) Irrigation Water Mgmt.	Ac.	0	0	0	0
(478) Conservation Tillage	Ac.	10000	1231	538573	0
(480) Woodl. Site Preparation	Ac.	100	221	100	0
(512) Past. & Hayl. Planting	Ac.	65000	57075	27925	0
(530) Proper Woodl. Grazing	Ac.	0	0	0	0
(553) Recl. of Surface Mined Land	Ac.	610	0	610	100
(585) Stripcropping	Ac.	3500	1623	1007	100
(600) Terraces	Ft.	15000000	1212063	3787937	50000
(606) Subsurface Drain	Ft.	1500000	335012	1164988	20000
(607) Surface Drainage	Ft.	1200000	716019	702251	10000
(612) Tree Planting	Ac.	1000	133	567	0
(644) Wildl. Wetl. Habitat Mgmt.	Ac.	50	6	11	0
(645) Wildl. Upi. Habitat Mgmt.	Ac.	20000	11193	8012	0
(650) Windbreak Renovation	Ac.	0	0	0	0
(654) Woodl. Improved Harvesting	Ac.	1000	0	1000	0
(666) Woodland Improvement	Ac.	2000	0	2000	0
Contouring	Ac.	5000000	35500	2000000	50000
Sedmt. & Wtr. Control Struc.	Sta. No.	500000	10	1000000	100
Erosion Control Struc.	No.	2000	600	1400	100
Diversions	Ft.	2000000	1100000	900000	50000