SUPPLEMENTAL WATERSHED WORK PLAN AGREEMENT NUMBER V

Between the

Denton-Wise Soil and Water Conservation District
(Local Organization)

Upper Elm-Red Soil and Water Conservation District
(Local Organization)

Dalworth Soil and Water Conservation District
(Local Organization)

Upper West Fork Soil and Water Conservation District
(Local Organization)

STATE OF Texas
(hereinafter referred to as the local organization)

and the

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
(hereinafter referred to as the Service)

Whereas, the Watershed Work Plan Agreement for Denton Creek Watershed, State of Texas, executed by the Sponsoring Local Organization named therein and the Service, became effective on the 18th day of October, 1956; and

Whereas, the Supplemental Watershed Work Plan Agreement Number I executed by the Sponsoring Local Organization named therein and the Service, became effective on the 5th day of July, 1966; the Supplemental Watershed Work Plan Agreement Number II, executed by the Sponsoring Local Organization named therein and the Service, became effective on the 1st day of December, 1969; the Supplemental Watershed Work Plan Agreement Number III executed by the Sponsoring Local Organization named therein and the Service, became effective on the 19th day of June, 1970; and the Supplemental Watershed Work Plan Agreement Number IV, executed by the Sponsoring Local Organization named therein and the Service, became effective on the 20th day of August, 1971; and

Whereas, in order to complete the overall resource development program and to control critical sediment source areas for the Denton Creek Watershed, it has become necessary to modify the agreement to include critical area treatment measures; and

Whereas, there has been developed through the cooperative efforts of the local organization and the Service, a mutually satisfactory plan for critical area treatment on the Denton Creek Watershed, which supplement is annexed to and made a part of this agreement; and

Whereas, the supplement describes the problems and sets forth a plan for works of improvement, the kinds and quantities of measures to be installed,

the estimated cost, cost-sharing arrangements, maintenance and other responsibilities of those participating in the project;

Now, therefore, in view of the foregoing considerations, the local organization and the Secretary of Agriculture, through the Service, hereby agree on the supplement, and further agree that the works of improvement as set forth in said supplement will be installed, operated and maintained substantially in accordance with the terms, conditions and stipulations provided therein.

(1) Add land treatment measures for stabilization of critical areas on approximately 3,500 acres. These acres will be treated with planned measures such as shaping, vegetating, and appurtenant structural measures.

(2) A separate agreement will be entered into between the Service and the District Cooperator before either party initiates work involving funds of the other party. Such agreement will set forth in detail the financial and working arrangements and other conditions that are applicable to the specific works of improvement.

(3) The sponsoring local organization will provide assistance to landowners and operators to assure the installation of the land treatment measures shown in the supplemental watershed work plan.

(4) The sponsoring local organization will encourage landowners and operators to operate and maintain the land treatment measures for the protection and improvement of the watershed.

(5) The costs shown in this agreement represent preliminary estimates. In finally determining the costs to be borne by the parties hereto, the actual costs incurred in the installation of works of improvement will be used.

(6) This agreement is not a fund obligating document. Financial and other assistance to be furnished by the Service in carrying out the supplement is contingent on the appropriation of funds for this purpose.

(7) The supplement may be amended or revised, and this agreement may be modified or terminated only by mutual agreement of the parties hereto except that an amendment to incorporate changes affecting one specific local sponsor may be made by mutual agreement between the Service and that sponsor involved.

(8) This agreement will not become effective until the Service has issued a notification of approval and authorizes assistance.

The Sponsoring Local Organization and the Service further agree to all other terms, conditions and stipulations of said Watershed Work Plan Agreement not modified herein.

Denton-Wise
Soil and Water Conservation District
Local Organization

By John J. Neal

Title Chairman

P.O. Box 40
Denton, Texas 76201
Address Zip Code

Date 2-12-76

The signing of this agreement was authorized by a resolution of the governing body of the Denton-Wise Soil and Water Conservation District
Local Organization

adopted at a meeting held on 2-12-76

Dionita Buckley
Secretary, Local Organization

P.O. Box 40
Denton, Tex 76201
Address Zip Code

Date 2-12-76

Upper Elm-Red
Soil and Water Conservation District
Local Organization

By J H Bayer

Title Chairman

Rt. 2 Muenster 76252
Address Zip Code

Date 1-19-76

The signing of this agreement was authorized by a resolution of the governing body of the Upper Elm-Red Soil and Water Conservation District
Local Organization

adopted at a meeting held on JAN 19, 1976

Secretary, Local Organization

Box 1234 Sherman, TX 75090
Address Zip Code

Date 1-19-76

Dalworth
Soil and Water Conservation District
Local Organization

By Tar C. Euston

Title Chairman

Rt. 1 Box 195D Mansfield, Tex. 76063
Address Zip Code

Date 2/25/76

The signing of this agreement was authorized by a resolution of the governing body of the Dalworth Soil and Water Conservation District
Local Organization

adopted at a meeting held on 2/17/76

O H Skinner
Secretary, Local Organization

Rt 1 Box 195D Mansfield Tex 76063
Address Zip Code

Date 2-25-1976

Upper West Fork
Soil and Water Conservation District
Local Organization

By Wesley J. Richards

Title Chairman

Box 639 Jacksboro 76056
Address Zip Code

Date 1-21-76

The signing of this agreement was authorized by a resolution of the governing body of the Upper West Fork Soil and Water Conservation District
Local Organization

adopted at a meeting held on 1-21-76

Secretary, Local Organization

Decatur Tex. Route 1 Box 21
Address

Zip Code 76234

Date 1-21-76

Soil Conservation Service
United States Department of Agriculture

Approved by:

George C. Marks
State Conservationist

Date 3-8-76

SUPPLEMENTAL
WATERSHED WORK PLAN NO. V

DENTON CREEK WATERSHED
of the Trinity River Watershed
Montague, Wise, Denton, Cooke, and Tarrant Counties, Texas

January 1976

PURPOSE OF THE SUPPLEMENTAL WORK PLAN

The purpose of this supplemental watershed work plan for the Denton Creek watershed is to provide a method to treat critical sediment source areas in the watershed not now provided for in the work plan.

The original work plan, as supplemented, provided flood prevention funds for accelerated technical assistance to help landowners of the watershed to plan and apply land treatment measures and provided for the installation of a system of 88 floodwater retarding structures, 2 multiple-purpose structures, 44.4 miles of channel work, and 15 land stabilization treatment areas. To date, 85 floodwater retarding structures, 1 multiple-purpose structure, 22.3 miles of channel work, and all but a part of 4 land stabilization treatment areas have been installed and approximately 80 percent of the acclerated land treatment measures have been applied.

There now exist in the watershed critical sediment source areas which need to be stabilized to reduce erosion and sedimentation, protect structural measures, and improve environmental conditions.

The purpose of this supplement is to provide for the use of flood prevention funds on a cost-share basis to install land treatment measures to control and stabilize critical sediment source areas.

WATERSHED PROBLEMS

Although most of the structural measures and accelerated land treatment measures have been installed, there still remain areas which yield high rates of sediment. Erosion from critical areas is a problem and critical area treatment is especially important in providing additional cover that will reduce the rate of silt laden runoff which fills downstream reservoirs, pollutes streams and river reducing both quality of water and capacity to carry water, damage roads and bridges and provides deposition to downstream flood plains and adversely affects the overall quality of our rural environment.

WORKS OF IMPROVEMENT TO BE INSTALLED

The works of improvement to be installed consist of land treatment measures necessary to stabilize critical sediment source areas on about 3,500 acres. These measures include shaping, clearing, preparation for vegetation, mulching, fertilizing, vegetating, fencing, and construction of appurtenant grade stabilizing structures such as pipe drops, drop inlets, formless concrete chutes, diversions and dams. Vegetation will include plants such as trees, shrubs, vines, grasses, and legumes.

EXPLANATION OF INSTALLATION COSTS

The total estimated cost of installing the planned measures covered by this supplement is $2,100,000, of which $1,400,000 is for construction (stabilization) cost and $700,000 is for technical assistance. Of the $1,400,000 cost for construction, 80 percent or $1,120,000 will be federal cost and 20 percent or $280,000 will be local cost.

BENEFITS FROM WORKS OF IMPROVEMENT

These land treatment measures when efficiently applied to the critical areas and properly maintained will be effective in the prevention of the deterioration of the watershed. Valuable soil that is irreplaceable will be protected and further loss of a resource will be prevented. The productivity and monetary value of adjoining areas will be maintained or enhanced by the healing of these critical areas. Benefits will accrue from protection of land and improvements which otherwise would be damaged through the extension of gully systems. Society as a whole will benefit through the prevention of destruction of an irreplaceable resource. Sediment being delivered to downstream reservoirs, flood plains, and streams will be reduced.

Vegetative treatment of these areas will provide additional habitat, cover, protection, and breeding places for wildlife. This in turn can help to maintain the ecological balance of nature.

Treatment of the exposed areas will improve the appearance and enhance the beauty of the terrain for the air and land travelers by minimizing or eliminating the visual impact of raw eroding areas.

Economic conditions will be improved by maintaining the productivity of the area and making it possible for owners and operators to continue with economic units on fewer acres. The community will benefit because the tax base will be maintained and strengthened so that tax supported community services can be financed.

The critical area stabilization measures will be established over a 10 year period. Each conservation district will be responsible for the work in their respective districts. The sponsoring local organization will acquire without cost to the Federal Government such construction permits as will be needed for the installation of critical area treatment measures included in this supplement. They will make arrangements with individuals, county commissioners, or other groups responsible for the land on which the work is being installed. Planned measures to be cost-shared will be included as a part of a conservation plan approved by the District. Depending on the preference of those concerned, installing the works of improvement will be handled by one of the following methods: (1) contract, (2) force account, or (3) installation by the cooperator on a cost-share basis. A Conservation

Plan Supplement (C.P.S.) will be completed prior to beginning installation of any cost-share land treatment work. This Conservation Plan Supplement will specify method of installation, planned treatment, quantities, estimated costs and estimated time schedule for installation, etc., for cost-shared and essential non cost-share practices. Cost-sharing on planned measures will be 80 percent federal funds and 20 percent local funds. The necessary technical assistance will be furnished by the Service and cost-shared measures will be installed in accordance with Service standards and specifications.

OPERATION AND MAINTENANCE

The critical area stabilization measures will be maintained by the landowners, county commissioners, or other groups responsible for the land on which the work is being installed. Based on technical recommendation by the Soil Conservation Service, an operation and maintenance agreement will be entered into by the conservation district and the landowner concerned.

Provisions will be made for free access of District, State, and Federal representatives to inspect all critical area stabilization measures at any time.

Operation and maintenance inspections for critical area stabilization measures will be made by the Service employee responsible for operation and maintenance inspection and the sponsors on an annual basis for the first 5 years, or after unusually severe floods, or after the occurrence of any other unusual conditions that might adversely affect these measures.

TABLE 1 - ESTIMATED PROJECT INSTALLATION COST
Denton Creek Watershed
(Trinity River Watershed)

Installation Cost Item	Unit	Number: Federal Land	Number: Non Federal Land	Number: Total	Estimated Cost (Dollars) 1/: Flood Prevention Funds: Federal Land: SCS 2/	Federal Land: FS 2/	Non Federal Land: SCS 2/	Non Federal Land: FS 2/	Flood Prevention Funds: Total	Other: Federal Land: SCS 2/	Other: Federal Land: FS 2/	Other: Non Federal Land: SCS 2/	Other: Non Federal Land: FS 2/	Other: Total	Total
LAND TREATMENT															
Land Areas															
Cropland	Acres	-	65,495	65,495	-	-	-	-	-	-	-	831,035	-	831,035	831,035
Pastureland	to be	-	74,897	74,897	-	-	-	-	-	-	-	2,250,348	-	2,250,348	2,250,348
Rangeland	treated	10,970	68,554	79,524	-	459,753	-	-	459,753	-	-	465,308	-	465,308	925,061
Critical Area Stabilization	Acres	-	3,500	3,500	-	-	1,120,000	-	1,120,000	-	-	280,000	-	280,000	1,400,000
Technical Assistance					18,084	-	1,047,580	-	1,065,664	-	-	-	-	-	1,065,664
TOTAL LAND TREATMENT	xxxx	xxxx	xxxx	xxxx	18,084	459,753	2,167,580	-	2,645,417	-	-	3,826,731	-	3,826,731	6,472,148
STRUCTURAL MEASURES															
Construction															
Floodwater Retarding Structure	No.	6	82	88	329,448	-	4,919,360	-	5,248,808	-	-	-	-	-	5,248,808
Multiple-Purpose Structure	No.	-	2	2	-	-	408,790	-	408,790	-	-	272,220	-	272,220	681,010
Municipal Outlet Structure	No.	-	1	1	-	-	-	-	-	-	-	55,000	-	55,000	55,000
Basic Recreation Facility	-	-	-	-	-	-	28,000	-	28,000	-	-	28,000	-	28,000	56,000
Channel Work (N) 3/	Mi.	-	44.4	44.4	-	-	3,293,338	-	3,299,338	-	-	-	-	-	3,299,338
Land Stabilization Treatment Areas	No.	3	12	15	195,165	-	859,102	-	1,054,267	-	-	-	-	-	1,054,267
Subtotal Construction					524,613	-	9,514,590	-	10,039,203	-	-	355,220	-	355,220	10,394,423
Engineering Services					57,707	-	1,046,605	-	1,104,312	-	-	39,074	-	39,074	1,143,386
Project Administration															
Construction Inspection					40,920	-	742,138	-	783,058	-	-	27,707	-	27,707	810,765
Other					31,477	-	570,875	-	602,352	-	-	21,313	-	21,313	623,665
Subtotal Administration					72,397	-	1,313,013	-	1,385,410	-	-	49,020	-	49,020	1,434,431
Other Cost															
Land Rights					-	-	193,880	-	193,880	7,901	-	678,200	-	686,101	879,981
Water Rights					-	-	-	-	-	-	-	11,360	-	11,360	11,360
Subtotal Other					-	-	193,880	-	193,880	7,901	-	689,560	-	697,461	891,341
TOTAL STRUCTURAL MEASURES					654,717	-	12,068,088	-	12,722,805	7,901	-	1,132,874	-	1,140,775	13,863,580
TOTAL PROJECT					672,801	459,753	14,235,668	-	15,368,222	7,901	-	4,959,605	-	4,967,506	20,335,728

1/ Price Base: Actual Cost for measures installed prior to December 1975; 1975 prices for all measures not installed.
2/ Federal Agency responsible for assisting in installation of works of improvement.
3/ Type of channel before project: (N) an unmodified, well defined natural channel or stream.

January 1976