MANUALLY SIGNED COPY

SUPPLEMENTAL WATERSHED PLAN AGREEMENT NO. IV

Between the

Taylor Soil and Water Conservation District
Local Organization

Brushy Creek Water Control and Improvement District No. I
Local Organization

(hereinafter referred to as the Sponsoring Local Organization)

State of Texas

and the

Soil Conservation Service
United States Department of Agriculture
(hereinafter referred to as the Service)

Whereas, the Watershed Plan Agreement for the Upper Brushy Creek watershed, State of Texas, executed by the Sponsoring Local Organizations named therein and the Service, became effective on the 21st day of June, 1956; and

Whereas, the Supplemental Watershed Plan Agreement Number I executed by the Sponsoring Local Organizations named therein and the Service, became effective on the 13th day of September, 1957; and

Whereas, the Supplemental Watershed Plan Agreement Number II, executed by the Sponsoring Local Organizations named therein and the Service, became effective on the 23rd day of May, 1961; and

Whereas, the Supplemental Watershed Plan Agreement Number III, executed by the Sponsoring Local Organizationsnamed therein, and the Service became effective on the 22nd day of October 1971; and

Whereas, in order to complete the overall resource development program and to control critical sediment source areas for Upper Brushy 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 Upper Brushy Creek watershed, which supplement is annexed to and made a part of this agreement; and

Whereas, the supplement describes the watershed 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; and

Whereas, it has become necessary to modify the Watershed Plan, as supplemented, to reflect current policy and terminology relative to engineering and project administration costs;

Now, therefore in view of the foregoing consideration, 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. Paragraph numbered 4 is modified by adding the following:

   The percentages of installation cost of the critical area treatment measures to be paid by the Sponsors and by the Service are as follows:

Works of Improvement	Sponsors (percent)	Service (percent)	Estimated Installation Cost (dollars)
Critical area treatment	20	80	1,000,000

The Sponsoring Local Organization and the Service further agree to all other terms, conditions, and stipulations of said watershed plan agreement not modified herein.

Taylor Soil and Water Conservation Dist.
Local Organization

By [illegible]

Title Chairman

P. O. Box 406 Thrall, Texas 76578
Address Zip Code

Date 8/28/79

The signing of this agreement was authorized by a resolution of the governing body of the Taylor Soil and Water Conservation District adopted
Local Organization
at a meeting held on February 22, 1979.

Hugo R. Bryan
Secretary, Local Organization

Rt. 3, Taylor, Texas 76574
Address Zip Code

8/28/79
Date

Brushy Creek Water Control and Improvement District No. 1
Local Organization

By [illegible]

P. O. Box 1183 Taylor, Texas 76574
Address Zip Code

Title President

Date 8/28/79

The signing of this agreement was authorized by a resolution of the governing body of the Brushy Creek WCID No. 1 at a meeting held on
Local Organization
August 28, 1979.

Robert W. Rhoades
Secretary, Local Organization

P. O. Box 632 Taylor, Texas 76574
Address Zip Code

8/28/79
Date

Soil Conservation Service
United States Department of Agriculture

Approved by:

George C. Marks
State Conservationist

SEP 5 1979
Date

SUPPLEMENTAL
WATERSHED PLAN NO. IV

UPPER BRUSHY CREEK WATERSHED

Williamson County, Texas

June 1979

PURPOSE OF THE SUPPLEMENTAL PLAN

The purpose of this supplemental watershed plan for the Upper Brushy Creek watershed is to provide a method to treat critical sediment source areas in the watershed not now provided for in the plan and to modify the plan to reflect current policy and terminology relative to engineering and project administrative costs.

The original plan, as supplemented, provided watershed protection and 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 29 floodwater retarding structures. The accelerated land treatment assistance and floodwater retarding structures have been completed.

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 Public Law 566 funds on a cost-share basis to install land treatment measures to control and stabilize critical sediment source areas.

WATERSHED PROBLEMS

Although the structural measures and accelerated land treatment measures have been installed, there still remain areas which yield large amounts of sediment. Erosion from about 135 gullied areas is a problem and treatment is especially important in providing additional cover that will reduce the rate of sediment laden runoff. The estimated soil loss from the average gullied area is 140 tons per year. This sediment contributes to the filling of downstream reservoirs, pollutes streams and rivers 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. Also, because of these gullied areas, needed land treatment cannot be accomplished on about 20,000 acres of adjoining land.

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 2,000 acres and will benefit about 20,000 acres. These measures may include practices such as clearing, shaping, 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 as appropriate for the site. Approximately 100 gullied areas will be treated with vegetative measures and 35 areas will be treated with vegetative and structural measures.

EXPLANATION OF INSTALLATION COSTS

The total estimated cost of installing the planned measures covered by this supplement is $1,200,000 of which $1,000,000 is for construction (stabilization) cost and $200,000 is for technical assistance. Of the $1,000,000 cost for construction 80 percent or $800,000 will be Public Law 566 cost and 20 percent or $200,000 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 soil loss from the average gullied area will be reduced from about 140 tons per year to about 5 tons per year. This will reduce sediment being delivered to downstream reservoirs, flood plain, and streams by about 18,200 tons per year. The productivity and monetary value on about 20,000 acres of adjoining land 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.

Vegetative treatment of these areas will provide additional haibtat, 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.

INSTALLATION AND FINANCING

Critical area stabilization measures will be planned and installed during a five year period through cooperation of landowners and operators with their soil and water conservation district. These are measures that are to be applied to active gullies and badly eroded areas, and the treatment costs are outside the financial capabilities of landowners and operators with technical and financial assistance available. These measures will be installed with technical and financial assistance from PL-566 funds.

Critical area treatment will be a part of agreed-to conservation practices included in new or revised conservation plans for each affected operating unit. These conservation plans will include an installation schedule; requirements for operation, maintenance and replacement; provision for access by the Service and the district or its agent to inspect installation and operation and maintenance; and signatures by the district and owner or operator. These plans will serve as the operation and maintenance agreement. The conservation district will provide the leadership and coordination. The Service will provide about 12 man-years technical assistance through the conservation district for preparation of the conservation plan, installation plans, standards and specifications, and for layout and inspection of construction.

Installation of critical area treatment will be by the average cost method.

Immediately before installation, the cooperator and the Service will enter into a long-term agreement (5 to 10 years). The agreement will provide for installing the critical area treatment on the cooperator's operating unit in accordance with a conservation plan of operations and installation schedule. The agreement will include the cost-share rate, the work covered by the agreement, technical assistance for installation, duration of agreement, inspection and related subjects. The cooperator involved may install the treatment using his own labor and equipment or employ the services of vendors and contractors to install the measure. Landrights are provided by the cooperator through the district agreement.

The Service will share 80 percent of the cost of installing critical area treatment. This cost sharing will be based on actual cost not to exceed average cost for shaping and grading or average cost when the cooperator uses his own labor and equipment. The practice will be installed on an average cost basis unless the agreement specifies that practices, or components of a practice will be on an actual cost not to exceed the average cost. Average costs are determined from actual costs for similar work recently installed in the general area.

Upon completion of a practice or component of a practice by a vendor or contractor, the cooperator will provide the Service with records to show actual cost of the work. The Service will take steps necessary to insure that cost records of work that the cooperator has performed by vendors and contractors are suitable to base a claim to the Service for the PL-566 share of the costs.

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 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, Texas State Soil and Water Conservation Board and Service representatives to inspect all critical area stabilization measures at any reasonable time during the period of operation and maintenance responsibilities specified in the conservation plan of operations.

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 the occurrence of any unusual conditions that might adversely affect these measures.

LE 1 - ESTIMATED INSTALLATION C

UPPER BRUSHY CREEK WATERSHED, TEXAS

Installation Cost Item	Unit	Number Nonfederal Land	Estimated Cost (Dollars) 1/ PL 566 Funds Nonfederal Land SCS	Other Nonfederal Land SCS	TOTAL
LAND TREATMENT-GOING PROGRAM					
Land Areas 2/	Acres				
Cropland	to be	-	-	-	-
Pastureland	Pro-	-	-	-	-
Rangeland	tected	-	-	-	-
Technical Assistance	XXX	XXX	-	-	-
SUBTOTAL			-	-	-
LAND TREATMENT-ACCELERATED					
Land Areas 2/	Acres				
Cropland	to be	67,367	-	1,063,100	1,063,100
Pastureland	Pro-	22,332	-	298,806	298,806
Rangeland	tected	48,430	-	246,627	246,627
Critical Area Stabilization	Acres	2,000	800,000	200,000	1,000,000
Technical Assistance	XXX	XXX	269,564	-	269,564
SUBTOTAL			1,069,564	1,808,533	2,878,097
TOTAL LAND TREATMENT	XXX	XXX	1,069,564	1,808,533	2,878,097
STRUCTURAL MEASURES					
Floodwater Retarding Structures	No.	29	2,536,238	308,392	2,844,630
SUBTOTAL Structural Cost			2,536,238	308,392	2,844,630
PROJECT ADMINISTRATION					
Construction Inspection			186,787	-	186,787
Other			287,959	14,500	302,459
SUBTOTAL -Administration for Nonstructural and Structural Measures			474,746	14,500	489,246
TOTAL PROJECTS COSTS 3/			4,080,548	3,131,425	6,211,973
TOTAL ALL COSTS			4,080,548	3,131,425	6,211,973

1/ Price base: 1979 for Critical Area Stabilization. Actual cost for other measures.

2/ Includes only areas estimated to be adequately protected during the project installation period. Treatment will be applied throughout the watershed, and dollar amounts apply to total land areas, not just to adequately protected areas.

3/ Excludes going program - Land Treatment

May 1979

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Whereas, the supplement describes the watershed 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; and

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The Sponsoring Local Organization and the Service further agree to all other terms, conditions, and stipulations of said watershed plan agreement not modified herein.

Taylor Soil and Water Conservation Dist. By [signature]
Local Organization

Title Chairman

P. O. Box 406 Thrall, Texas 76578
Address Zip Code

Date 3/28/79

The signing of this agreement was authorized by a resolution of the governing body of the Taylor Soil and Water Conservation District adopted
Local Organization
at a meeting held on February 22, 1979.

[signature]
Secretary, Local Organization

Rt. 3, Taylor, Texas 76574
Address Zip Code

3/28/79
Date

Brushy Creek Water Control and Improvement District No. 1 By [signature]
Local Organization

P. O. Box 1123 Taylor, Texas 76574
Address Zip Code

Title President

Date 3/28/79

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Local Organization
August 28, 1979.

Robert W. Rhoades
Secretary, Local Organization

P. O. Box 632 Taylor, Texas 76574
Address Zip Code

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Date

Soil Conservation Service
United States Department of Agriculture

Approved by:

George C. Marks
State Conservationist

[illegible] 1979
Date

SUPPLEMENTAL
WATERSHED PLAN NO. IV

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Williamson County, Texas

June 1979

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May 1979