MANUALLY SIGNED COPY

SUPPLEMENTAL WATERSHED WORK PLAN AGREEMENT NO. II

Between the

Central Colorado Soil and Water Conservation District
Local Organization

Brown-Mills Soil and Water Conservation District
Local Organization

Coleman County Commissioners Court
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 Work Plan Agreement for the Mukewater Creek watershed, State of Texas, executed by the Sponsoring Local Organizations named therein and the Service, became effective on the 29th day of January 1959; and

Whereas, the Supplemental Watershed Work Plan Agreement No. I for said watershed, executed by the Sponsoring Local Organization named therein and the Service, became effective on the 18th day of October 1971; and

Whereas, it has become necessary to modify the watershed work plan, as supplemented, by deleting floodwater retarding structure No. 8 and the 23.7 miles of channel work; and

Whereas, in order to complete the overall resource development program and to control critical sediment source areas for Mukewater 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 Mukewater 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;

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 700 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 inititates 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 incoporate changes affecting one specific local sponsor may be made by mutual agreement between the Service and that sponsor involved.

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.

Brown-Mills
Soil and Water Conservation District
Local Organization

By Kenneth L. Boyd

Title Chairman

Box 562
Brownwood, Texas 76801
Address Zip Code

Date 1-19-78

The signing of this agreement was authorized by a resolution of the governing body of the Brown-Mills Soil and Water Conservation District adopted at
Local Organization
a meeting held on 1-19-78.

W G Bishop
Secretary, Local Organization

Rt 2
Goldthwaite, Texas 76844
Address Zip Code

1-19-78
Date

Central Colorado
Soil and Water Conservation District
Local Organization

X By Ben Wilhauge

Title Chairman

Box 867, Coleman, Texas 76834
Address Zip Code

Date 2/2/78

The signing of this agreement was authorized by a resolution of the governing body of the Cen. Colo. Soil and Water Conservation District adopted
Local Organization
at a meeting held on 2/2/78.

X J.H. Martin
Secretary, Local Organization

Santa Anna Texas 76878
Address Zip Code

2/2/78
Date

Coleman County Commissioners Court
Local Organization

By W.W. Skelton

Title County Judge

Coleman, Texas 76834
Address Zip Code

Date 2/13/78

The signing of this agreement was authorized by a resolution of the governing body of the Coleman County Commissioners Court adopted
Local Organization
at a meeting held on 2/13/78.

Glenn Thomas County Clerk, Coleman County, Texas 76834
~~Secretary, Local Organization~~
Address Zip Code

2/13/78
Date

Soil Conservation Service
United States Department of Agriculture

Approved by:

George C Marks

State Conservationist

FEB 17 1978

Date

SUPPLEMENTAL
WATERSHED WORK PLAN NO. II

MUKEWATER CREEK WATERSHED
of the Middle Colorado River Watershed
Brown and Coleman Counties, Texas

December 1977

PURPOSE OF THE SUPPLEMENTAL WORK PLAN

The purpose of this supplemental watershed work plan for the Mukewater Creek watershed is to provide a method to treat critical sediment source areas in the watershed not now provided for in the work plan and to delete the floodwater retarding structure No. 8 and the 23.7 miles of channel work.

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 aystem of 10 floodwater retarding structures and 23.7 miles of channel work. The accelerated land treatment assistance and 9 floodwater retarding structures have been completed. Upon the approval of this supplement deleting structure No. 8 and the channel work, all structural measures will have been installed.

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 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 rivers reducing both quality of water and capacity to carry water, damage roads and bridges and provides deposition to downstream flood plains and adversaly affects the overall quality of our rural environment.

WORKS OF IMPROVEMENT TO BE INSTALLED

Floodwater retarding structure No. 8 and 23.7 miles of channel are being deleted. All other structural measures have been installed. The works of improvement to be installed under provision of this supplement consist of land treatment measures necessary to stabilize critical sediment source areas on about 700 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 land treatment measures covered by this supplement is $267,500, of which $227,500 is for construction (stabilization) cost and $40,000 is for technical assistance. Of the $227,500 cost for construction 80 percent, or $182,000, will be federal cost and 20 percent, or $45,500, will be local cost.

BENEFITS FROM WORKS OF IMPROVEMENT

With the deletion of floodwater retarding structure No. 8 and the 23.7 miles of channel work, the average annual benefits are estimated to be $41,124 with an annual cost of $22,426. The average annual reduction of damages would amount to 56 percent. 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 5 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 gorups responsible for the land on which the work is being installed. Planned measures to be cost-shared will be included

as 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.

Mukewater Creek Watershed, Texas

Installation Cost Item 2/	Unit	Number: Federal Land	Number: Non Federal Land	Number: Total	Estimated Cost (Dollars) 1/: Federal Funds Non Federal Land SCS	Estimated Cost (Dollars) 1/: Other Non Federal Land SCS	Total
LAND TREATMENT							
Land Areas							
Cropland	Acres	-	29,145	29,145	-	559,323	559,323
Grassland	Acres	-	49,740	49,740	-	298,592	298,592
Critical Area Stabilization	Acres	-	700	700	182,000	45,500	227,500
Technical Assistance					154,831	-	154,831
TOTAL LAND TREATMENT					336,831	903,415	1,240,246
STRUCTURAL MEASURES							
Construction							
Floodwater Retarding Structures	No.		9	9	432,056	-	432,056
Subtotal Construction					432,056	-	432,056
Engineering Services					56,167	-	56,167
PROJECT ADMINISTRATION							
Construction Inspection					47,526	-	47,526
Other					43,206	4,500	47,706
Subtotal Administration					90,732	4,500	95,232
OTHER COSTS							
Land Rights					-	88,490	88,490
Subtotal Other					-	88,490	88,490
TOTAL STRUCTURAL MEASURES					578,955	92,990	671,945
TOTAL PROJECT					915,786	996,405	1,912,191

1/ Price Base: 1977 critical area stabilization. Actual cost for all other measures.
2/ All measures installed except critical area stabilization.

December 1977