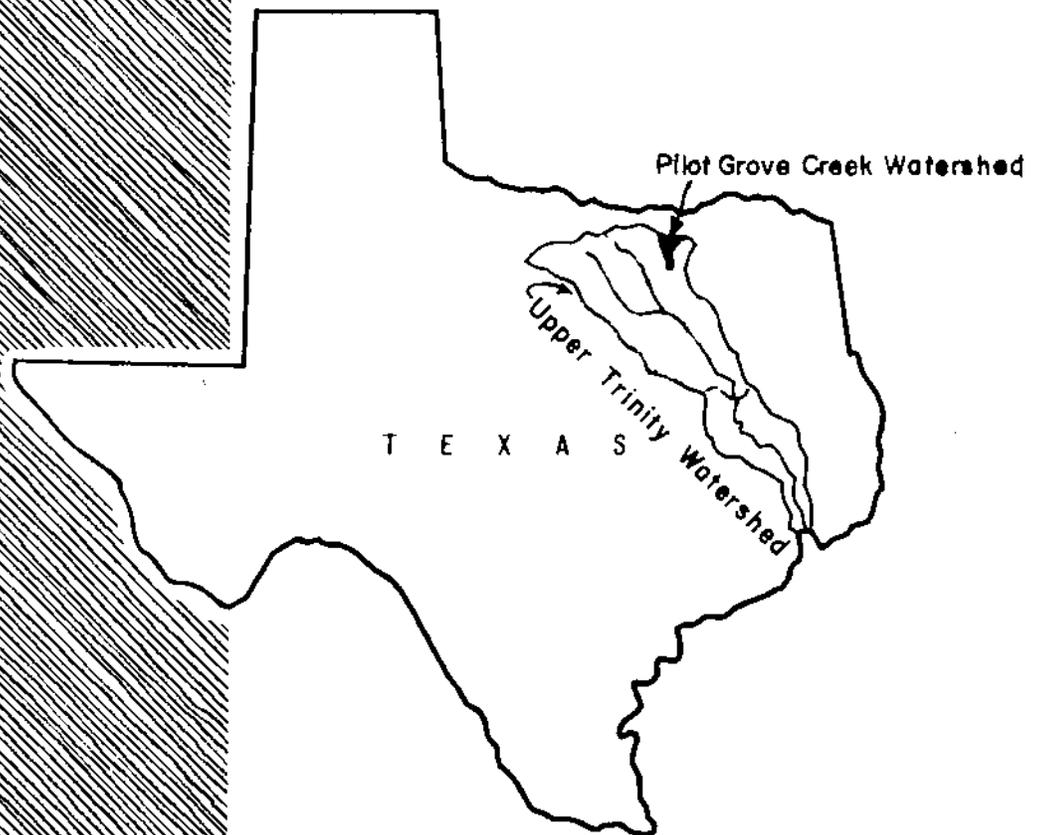


SUPPLEMENTAL
WORK PLAN I

PILOT GROVE CREEK
WATERSHED

OF THE TRINITY RIVER WATERSHED
COLLIN, FANNIN, GRAYSON, AND
HUNT COUNTIES, TEXAS



Prepared By
SOIL CONSERVATION SERVICE
U. S. DEPARTMENT OF AGRICULTURE
Temple, Texas
December 1971

SUPPLEMENTAL WATERSHED WORK PLAN AGREEMENT

Between the

Collin County Soil and Water Conservation District
Local Organization

Fannin County Soil and Water Conservation District
Local Organization

Upper Elm-Red Soil and Water Conservation District
Local Organization

Upper Sabine Soil and Water Conservation District
Local Organization

Collin County Commissioners Court
Local Organization

Fannin County Commissioners Court
Local Organization

Hunt County Commissioners Court
Local Organization

State of Texas
(hereinafter referred to as the Sponsoring 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 the Pilot Grove Creek Watershed, Trinity River Watershed, State of Texas, executed by the Sponsoring Local Organization named therein and the Service, became effective on the 28th day of April, 1960; and

Whereas, in order to carry out the Watershed Work Plan for said watershed, it has become necessary to modify said Watershed Work Plan Agreement; and

Whereas, it has become necessary to modify the Watershed Work Plan to comply with the provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Public Law 91-646, 84th Stat. 1894); and

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

Whereas, a Supplemental Watershed Work Plan which modifies the Watershed Work Plan dated January 1959 for said watershed has been developed through the cooperative efforts of the Sponsoring Local Organization and the Service; which plan is annexed to and made a part of this agreement; and

Now, therefore, the Sponsoring Local Organization and the Service hereby agree upon the following modifications of the terms, conditions, and stipulations of said Watershed Work Plan Agreement:

1. A paragraph numbered 10 is added to read as follows:

The Sponsoring Local Organization will provide relocation advisory assistance services and make the relocation payments to displaced persons as required by the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Public Law 91-646, 84th Stat. 1894) effective as of January 2, 1971, and the Regulations issued by the Secretary of Agriculture pursuant thereto. Prior to July 1, 1972, the Sponsoring Local Organization will comply with the real property acquisition policies contained in said Act and Regulations to the extent that they are legally able to do so in accordance with their State law. After July 1, 1972, the real property acquisition policies contained in said Act shall be followed in all cases.

The Service will bear 100 percent of the first \$25,000 of relocation payment costs for any person, business, or farm operation displaced prior to July 1, 1972. Any such costs for a single dislocation in excess of \$25,000 and all costs for relocation payments for persons displaced after July 1, 1972, will be shared by the Sponsoring Local Organization and the Service as follows:

	<u>Sponsoring Local Organization</u> (percent)	<u>Service</u> (percent)	<u>Estimated Relocation Payment Costs</u> (dollars)
Relocation Payments	35.84	64.16	1,100

2. Paragraph numbered 3 is deleted.
3. A paragraph numbered 11 is added to read as follows:

The percentages of construction costs of structural measures to be paid by the Sponsoring Local Organization and the Service are as follows:

<u>Works of Improvement</u>	<u>Sponsoring Local Organization</u> (percent)	<u>Service</u> (percent)	<u>Estimated Construction Cost</u> (dollars)
All Structural Measures	-	100.00	3,639,110

4. A paragraph numbered 12 is added to read as follows:

The percentages of engineering costs to be borne by the Sponsoring Local Organization and the Service are as follows:

<u>Works of Improvement</u>	<u>Sponsoring Local Organization</u> (percent)	<u>Service</u> (percent)	<u>Estimated Engineering Cost</u> (dollars)
All Structural Measures	-	100.00	279,223

5. A paragraph numbered 13 is added to read as follows:

The Sponsoring Local Organization and the Service will each bear the costs of Project Administration which it incurs, estimated to be \$21,200 and \$663,346 respectively.

6. A paragraph numbered 14 is added to read as follows:

The program conducted will be in compliance with all requirements respecting nondiscrimination as contained in the Civil Rights Act of 1964 and the Regulations of the Secretary of Agriculture (7 C.F.R. 15.1-15.12) which provides that no person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any activity receiving Federal financial assistance.

7. 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.

Collin County Soil and Water Conservation District
Local Organization

By John D Wells
Title Chairman
Address Rt. 1 Pkwy Tex 75074
Date 5/9/72
Zip code

The signing of this agreement was authorized by a resolution of the governing body of the Collin County Soil and Water Conservation District Local Organization adopted at a meeting held on May 9, 1972

B. B. Bauling
(Secretary, Local Organization)
Address Box 124 Leonard, Tex 75452
Date 5/9/72
Zip Code

Fannin County Soil and Water Conservation District
Local Organization

By Don E. Knowlton
Title Chairman
Address 1205 14th St 75446
Date July 5, 72
Zip Code

The signing of this agreement was authorized by a resolution of the governing body of the Fannin County Soil and Water Conservation District Local Organization adopted at a meeting held on July 5, 1972

Jessie E. Slate
(Secretary, Local Organization)
Address Rt #3 Bonham 72418
Date July 5, 1972
Zip Code

Upper Elm-Red Soil and Water Conservation District
Local Organization

By JR Bayer

Title Chairman

Address Pt 2 Mulvater 76552
Zip code

Date 7-12-72

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 July 12 - 1972

Keith Temple
(Secretary, Local Organization)

Address Orill Valley near 74 7625
Zip Code

Date 7-12-72

Upper Sabine Soil and Water Conservation District
Local Organization

By W. H. ...

Title Chairman

Address R. 3. ... 75453
Zip Code

Date 6-12-72

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

adopted at a meeting held on 6-12-72

M. E. ...
(Secretary, Local Organization)

Address Low Oak ... 75453
Zip Code

Date 6-12-1972

Collin County Commissioners Court
Local Organization

By [Signature]
Title County Judge
Address [Signature] Zip code 75069
Date 5-15-72

The signing of this agreement was authorized by a resolution of the governing body of the Collin County Commissioners Court Local Organization adopted at a meeting held on 5-15-72

[Signature]
(Secretary, Local Organization)
Address McInnes, Tex Zip Code 75069
Date 5-15-72

Fannin County Commissioners Court
Local Organization

By [Signature]
Title County Judge
Address Bonham Texas Zip Code 75418
Date July 10, 1972

The signing of this agreement was authorized by a resolution of the governing body of the Fannin County Commissioners Court Local Organization adopted at a meeting held on 7-10-72

[Signature]
(Secretary, Local Organization)
By [Signature] Address Deer Park, Texas Zip Code [Signature]
Date July 10, 1972

Hunt County Commissioners Court
Local Organization

By Chas. W. Jover

Title C. Judge

Address BREEDVILLE TEX-75401

Date 6-13-72 Zip Code

The signing of this agreement was authorized by a resolution of the governing body of the Hunt County Commissioners Court Local Organization

adopted at a meeting held on 6-17-72

Edna L. Beene
(Secretary, Local Organization)

Address Breedville, Texas
Hunt County Courthouse 75401

Date 6-12-72 Zip Code

Local Organization

By _____

Title _____

Address _____ Zip Code

Date _____

The signing of this agreement was authorized by a resolution of the governing body of the _____

Local Organization adopted at a meeting held on _____

(Secretary, Local Organization)

Address _____ Zip Code

Date _____

Soil Conservation Service
United States Department of Agriculture

By Edward E. Thom
State Conservationist

Date 8/8/72

SUPPLEMENTAL WATERSHED WORK PLAN

PILOT GROVE CREEK WATERSHED
Of the Trinity River Watershed
Collin, Fannin, Grayson, and Hunt Counties, Texas

Plan Prepared and Works of Improvement
to be Installed Under the Authority
of the Flood Control Act of 1944
as Amended and Supplemented

Prepared By:

Collin County Soil and Water Conservation District

Fannin County Soil and Water Conservation District

Upper Elm-Red Soil and Water Conservation District

Upper Sabine Soil and Water Conservation District

Collin County Commissioners Court

Fannin County Commissioners Court

Hunt County Commissioners Court

With Assistance By:

U. S. Department of Agriculture
Soil Conservation Service

December 1971

SUPPLEMENTAL WATERSHED WORK PLAN

PILOT GROVE CREEK WATERSHED
Of the Trinity River Watershed
Collin, Fannin, Grayson, and Hunt Counties, Texas

December 1971

PURPOSE OF THE SUPPLEMENTAL WORK PLAN

It has become necessary to modify the watershed work plan for Pilot Grove Creek Watershed to incorporate provisions for implementing the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970. This modification will set forth the arrangements for cost-sharing of relocation payments and the provisions for providing relocation advisory assistance services, and will, in addition, reflect current policy and terminology relative to engineering and project administration costs.

The following are changes and modifications made in appropriate parts of the watershed work plan.

Works of Improvement to be Installed

Under present conditions the acquisition of land rights needed for the installation of Floodwater Retarding Structure No. 42 will result in the relocation of personal property from one barn and one dairy building.

No other displacement or relocation is apparent at this time. However, if other relocations become necessary, relocation payments will be cost-shared in accordance with percentages shown in the work plan agreement.

Explanation of Installation Costs

The total costs for apparent eligible relocation payments resulting from dislocations indicated under "Works of Improvement To Be Installed" are estimated to be \$1,100. After July 1, 1972, the share of these costs to be borne by Federal funds is 64.16 percent and the share to be borne by other funds is 35.84 percent, and are based upon the ratio of Federal funds and other funds to the total project costs less relocation payments. For those displacements prior to July 1, 1972, Federal funds will provide the first \$25,000 for each displacement.

Engineering services costs consist of, but are not limited to, detailed surveys, geologic investigations, laboratory analyses, reports, designs, and cartographic services.

Federal project administration costs consist of construction inspection, maintenance of records and accounts, contract administration, and assistance to the Fannin County Commissioners Court in providing relocation advisory assistance.

The local costs for project administration includes sponsors' costs relative to contract administration, overhead and organizational costs, whatever construction inspection they desire to make at their own expense, and all relocation advisory assistance services costs. The estimated cost of \$200 for providing relocation advisory assistance services will be borne by the Fannin County Commissioners Court.

Comparison of Costs and Benefits

The total average annual cost of structural measures (amortized total installation costs, plus operation and maintenance) is \$190,247. These measures are expected to produce average annual benefits, excluding secondary benefits, of \$289,328, resulting in a benefit to cost ratio of 1.5:1.0. The ratio of total average annual project benefits accruing to structural measures, \$322,595, to the average annual cost of structural measures \$190,247, is 1.7:1.0 (revised table 6).

Project Installation

The Fannin County Commissioners Court has assumed responsibility for providing those relocation advisory assistance services and relocation costs associated with Floodwater Retarding Structure No. 42. Fannin County will, through its own facilities, for the structure for which it has assumed responsibility, (1) provide personally, or by first class mail, written notice of displacement and appropriate application forms to each displaced person or business, (2) give displaced persons notice to vacate at least 90 days prior to the date they must move, (3) assist in filing applications, (4) review and approve applications for relocation assistance, (5) review and process grievances in connection with displacements, and (6) make relocation payments.

Fannin County, having responsibility for furnishing relocation advisory assistance services, will provide such measures, facilities, or services as may be necessary or appropriate in order to, (1) determine the need, if any, of displaced persons for relocation assistance, (2) provide current and continuing information on the availability, prices, and rentals of comparable decent, safe, and sanitary sale and rental housing, and of comparable commercial properties and locations for displaced businesses and farm operations, (3) assure, that within a reasonable period of time prior to displacement, replacement dwellings will be available, (4) assist a displaced person displaced from his business or farm operation in obtaining and becoming established in a suitable replacement location, (5) supply information concerning housing programs, disaster loan programs, and other Federal or State programs offering assistance to displaced persons, (6) provide other advisory services to displaced persons in order to minimize hardships

to such persons in adjusting to relocation, (7) advise displaced persons that they should notify the displacing agency before they move, and (8) prior to initiation of acquisition, provide persons from whom it is planned to acquire land a brochure or pamphlet outlining the benefits to which they may be entitled.

Construction of any floodwater retarding structure causing a displacement will not be initiated until decent, safe, and sanitary replacement housing is available for all displaced families.

Financing Project Installation

The local share of costs for relocation payments and all project administration costs for relocation advisory assistance services will be borne by Fannin County for the structure for which it has assumed responsibility. Fannin County has adequate funds available from tax resources.

REVISED TABLE 1 - ESTIMATED PROJECT INSTALLATION COST
 Pilot Grove Creek Watershed, Texas
 (Trinity River Watershed)

Installation Cost Item	Unit	Number	Estimated Cost (Dollars) 1/		
			Federal Funds	Other Funds	Total
<u>LAND TREATMENT</u>					
Soil Conservation Service					
Cropland	Acre	65,738	-	1,422,646	1,422,646
Pastureland	Acre	45,948	-	901,051	901,051
Technical Assistance(Accel.)			249,796	-	249,796
TOTAL LAND TREATMENT			249,796	2,323,697	2,573,493
<u>STRUCTURAL MEASURES</u>					
<u>Construction</u>					
Soil Conservation Service					
Floodwater Retarding Structures	No.	80	2,555,018	-	2,555,018
Stream Channel Improvement	Mile	39.43	1,084,092	-	1,084,092
Subtotal - Construction			3,639,110	-	3,639,110
<u>Engineering Services</u>					
Soil Conservation Service			279,223	-	279,223
Subtotal - Engineering			279,223	-	279,223
<u>Relocation Payments</u>					
Soil Conservation Service			706	394	1,100
Subtotal - Relocation Payments			706	394	1,100
<u>Project Administration</u>					
<u>Soil Conservation Service</u>					
Relocation Advisory Assistance Services			-	200	200
Construction Inspection			347,274	6,020	353,294
Other			316,072	14,980	331,052
Subtotal - Administration			663,346	21,200	684,546
<u>Other Costs</u>					
Land Rights			-	354,455	354,455
Subtotal - Other			-	354,455	354,455
TOTAL STRUCTURAL MEASURES			4,582,385	376,049	4,958,434
TOTAL PROJECT			4,832,181	2,699,746	7,531,927

1/ 1971 prices for structural measures remaining to be built, actual costs for measures already constructed.

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REVISED TABLE 2 - ESTIMATED STRUCTURAL COST DISTRIBUTION
Pilot Grove Creek Watershed, Texas
(Trinity River Watershed)

(Dollars) 1/

Item	Installation Cost - Flood Prevention Funds			: Relocation	Installation Cost - Other Funds			: Total
	: Construction	: Engineering	: Payments 2/		: Relocation	: Land	: Rights	
Floodwater Retarding Structures								
Constructed - No. (39)	1,219,241	92,796	1,312,037	-	141,825	141,825	1,453,862	
Structures to be Constructed								
1	43,666	3,493	47,159	-	1,810	1,810	48,969	
6	51,411	4,113	55,524	-	7,670	7,670	63,194	
12	72,355	5,065	77,420	-	4,560	4,560	81,980	
13	24,182	2,660	26,842	-	2,330	2,330	29,172	
14A	53,040	4,243	57,283	-	8,380	8,380	65,663	
15	30,721	3,072	33,793	-	2,170	2,170	35,963	
16A	27,330	3,010	30,340	-	5,000	5,000	35,340	
17	44,368	3,549	47,917	-	5,655	5,655	53,572	
18	23,510	2,586	26,096	-	1,920	1,920	28,016	
19	15,189	2,126	17,315	-	1,545	1,545	18,860	
19A	43,350	3,468	46,818	-	5,200	5,200	52,018	
20	14,739	2,063	16,802	-	1,335	1,335	18,137	
21A	44,160	3,533	47,693	-	6,950	6,950	54,643	
22	26,685	2,935	29,620	-	2,190	2,190	31,810	
23B	37,290	3,729	41,019	-	5,350	5,350	46,369	
24	14,207	1,989	16,196	-	530	530	16,726	
25	48,677	3,894	52,571	-	4,860	4,860	57,431	
26	24,283	2,671	26,954	-	4,120	4,120	31,074	
32	18,814	2,634	21,448	-	1,185	1,185	22,633	
34	26,827	2,951	29,778	-	3,765	3,765	33,543	
35	21,520	2,367	23,887	-	3,670	3,670	27,557	
36	16,114	2,256	18,370	-	1,740	1,740	20,110	
37	21,436	2,358	23,794	-	1,910	1,910	25,704	
42	36,372	3,637	40,009	706	6,430	6,430	47,539	
44A	20,885	2,297	23,182	-	3,225	3,225	26,407	
51	43,051	3,444	46,495	-	7,640	7,640	54,135	
52	45,905	3,672	49,577	-	6,020	6,020	55,597	
53	19,816	2,774	22,590	-	1,840	1,840	24,430	
54	41,380	3,310	44,690	-	4,800	4,800	49,490	

REVISED TABLE 2 - ESTIMATED STRUCTURAL COST DISTRIBUTION (Continued)
 Pilot Grove Creek Watershed, Texas
 (Trinity River Watershed)

(Dollars) 1/

Item	Installation Cost - Flood Prevention Funds			Installation Cost - Other Funds			Total
	Construction	Engineering	Relocation	Relocation	Land	Installation	
	Payments 2/	Payments 2/	Payments 2/	Payments 2/	Payments 2/	Payments 2/	Cost
Structures to be Constructed (Cont'd)							
55	18,612	2,606	-	21,218	-	2,010	23,228
56	16,893	2,365	-	19,258	-	1,300	20,558
57	44,736	3,579	-	48,315	-	4,710	53,025
58	24,616	2,708	-	27,324	-	2,190	29,514
64	32,108	3,211	-	35,319	-	2,140	37,459
65	31,560	3,156	-	34,716	-	2,520	37,236
66	49,430	3,954	-	53,384	-	9,450	62,834
67	13,870	1,942	-	15,812	-	1,450	17,262
68	53,108	4,245	-	57,353	-	6,090	63,443
69	16,194	2,267	-	18,463	-	1,430	19,893
70	61,430	4,300	-	65,730	-	4,220	69,950
71	21,935	2,413	-	24,348	-	1,410	25,758
Subtotal	1,335,777	126,645	706	1,463,128	394	152,720	1,616,242
Stream Channel Improvement	1,084,092	59,782	-	1,143,874	-	59,910	1,203,784
Subtotal - Watershed	3,639,110	279,223	706	3,919,039	394	354,455	4,273,888
Project Administration	xxx	xxx	xxx	663,346	-	21,200	684,546
GRAND TOTAL	3,639,110	279,223	706	4,582,385	394	354,455	4,938,434

1/ 1971 Prices for structures remaining to be built; actual costs for measures already constructed.
 2/ Relocation payments for displacements prior to July 1, 1972, will be shared as provided in PL-91-646 and as shown in the Supplemental Watershed Work Plan Agreement.

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REVISED TABLE 4 - ANNUAL COST
 Pilot Grove Creek Watershed, Texas
 (Trinity River Watershed)

(Dollars)

Evaluation Unit	: Amortization : of : Installation : Cost <u>1/</u>	: Operation : and : Maintenance : Cost <u>2/</u>	: Total
80 Floodwater Retarding Structures and Approximately 39.43 miles of Stream Channel Improvement	150,697	15,413	166,110
Project Administration	24,137	-	24,137
GRAND TOTAL	174,834	15,413	190,247

1/ Price Base: Actual costs for structural measures constructed and 1971 prices for measures remaining to be constructed; amortized for 50 years at 2.5 percent.

2/ Adjusted Normalized Prices

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TABLE 5 - ESTIMATED AVERAGE ANNUAL FLOOD DAMAGE REDUCTION BENEFITS
Pilot Grove Creek Watershed, Texas
(Trinity River Watershed)

(Dollars) 1/

Item	: Estimated Average Annual Damage:		Damage Reduction Benefits
	: Without Project	: With Project	
Floodwater			
Crop and Pasture	188,663	35,598	153,065
Other Agricultural	66,670	12,946	53,724
Nonagricultural (Road and Bridge)	63,167	10,781	52,386
Subtotal	318,500	59,325	259,175
Sediment			
Overbank Deposition	23,418	2,813	20,605
Lavon Reservoir	5,604	3,090	2,514
Subtotal	29,022	5,903	23,119
Erosion			
Flood Plain Scour	5,460	431	5,029
Indirect	35,298	6,566	28,732
TOTAL	388,280	72,225	316,055

1/ Price Base: Long term prices as projected by ARS, June 1956.

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REVISED TABLE 6 - COMPARISON OF BENEFITS AND COSTS FOR STRUCTURAL MEASURES
 Pilot Grove Creek Watershed, Texas
 (Trinity River Watershed)

(Dollars)

Evaluation Unit	AVERAGE ANNUAL BENEFITS ^{1/}			Total	Average Annual Cost ^{2/}	Benefit-Cost Ratio
	Damage Reduction	Secondary				
80 Floodwater Retarding Structures and 39.43 Miles of Channel Improvement.	289,328	33,267	xxx	322,595	166,110	1.9:1.0
Project Administration	xxx	xxx	xxx	xxx	24,137	xxx
GRAND TOTAL	289,328 ^{3/}	33,267	xxx	322,595	190,247	1.7:1.0

^{1/} Price Base: Long term prices as projected by ARS, June 1956.

^{2/} From Table 4.

^{3/} In addition, it is estimated that land treatment measures will provide flood damage reduction benefits of \$26,727 annually.

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