

NOT FULLY SIGNED

SUPPLEMENTAL WATERSHED PLAN AND AGREEMENT NO. VI

FOR

LAKEVIEW WATERSHED

of the

RED RIVER WATERSHED

HALL and DONLEY COUNTIES, TEXAS

**U.S. Department of Agriculture
Natural Resources Conservation Service
(Formerly the Soil Conservation Service)
Temple, Texas**

AUGUST 2006

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United States Department of Agriculture

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SUPPLEMENTAL WATERSHED AGREEMENT NO. VI

LAKEVIEW WATERSHED, TEXAS

Between the

Hall and Donley Counties Water Control and Improvement District No. 1
Local Organization

Hall-Childress Soil and Water Conservation District
Local Organization

Donley County Soil and Water Conservation District
Local Organization

Hall County
Local Organization

Donley County
Local Organization

City of Lakeview
Local Organization

(hereinafter referred to as the Sponsoring Local Organizations)
State of Texas

and the

Natural Resources Conservation Service
(Formerly the Soil Conservation Service)
United States Department of Agriculture
(Referred to herein as NRCS)

Whereas, the Watershed Work Plan Agreement for Lakeview Watershed, State of Texas, executed by the Sponsoring Local Organizations named therein and the NRCS, became effective on the 27th day of August 1969; and

Whereas, a Supplemental Watershed Work Plan Agreement for said watershed, executed by the Sponsoring Local Organizations named therein and the NRCS became effective on the 5th day of October 1971; and

Whereas, a Supplemental Watershed Work Plan Agreement No. II for said watershed, executed by the Sponsoring Local Organizations named therein and the NRCS became effective on the 31st day of October 1977; and

Whereas, a Supplemental Watershed Plan Agreement No. III for said watershed, executed by the Sponsoring Local Organizations named therein and the NRCS became effective on the 21st day of February 1979; and

Whereas, a Supplemental Watershed Agreement No. IV for said watershed, executed by the Sponsoring Local Organizations named therein and the NRCS became effective on the 25th day of February 1991; and

Whereas, a Supplemental Watershed Agreement No. V for said watershed, executed by the Sponsoring Local Organizations named therein and the NRCS became effective on the 18th day of December 1992; and

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

Whereas, the responsibility for administration of the Watershed Protection and Flood Prevention Act, as amended, has been assigned by the Secretary of Agriculture to the NRCS; and

Whereas, a Supplemental Watershed Plan Agreement No. VI, which modifies the Watershed Work Plan dated August 27, 1969, as supplemented, for said watershed has been developed through the cooperative efforts of the Sponsoring Local Organizations and NRCS; and

Now, therefore, the Secretary of Agriculture through the NRCS and the Sponsoring Local Organizations hereby agree upon the following modifications of the terms, conditions, and stipulations of said watershed agreement, as supplemented;

(1) Paragraph number 1 is modified to read as follows:

The Sponsoring Local Organization will acquire with other than Public Law 83-566 funds, such real property as will be needed in connection with the works of improvement.
Estimated Cost \$394,000. (Base Price 2005)

(2) Paragraph number 3 is modified to read as follows:

The amounts and percentages of construction and installation costs of structural measures and critical area treatment measures to be paid by the Sponsoring Local Organizations and by NRCS are as follows:

Works of Improvement	Sponsoring Local Organizations	NRCS	Estimated Construction Costs
24 Floodwater Retarding Structures (FRS)	0 %	100 %	\$15,000,000

Land Treatment Practices	Sponsoring Local Organizations	NRCS	Estimated Installation Costs
Critical Area Treatment	20 %	80 %	\$777,900

(3) Paragraph number 4 is modified to read as follows:

The percentages of engineering services costs to be borne by the Sponsoring Local Organizations and by NRCS are as follows:

Works of Improvement	Sponsoring Local Organizations	NRCS	Estimated Engineering Costs
24 FRS	0 %	100 %	\$452,000

(4) Paragraph number 5 is modified to read as follows:

The Sponsoring Local Organizations and NRCS will each bear the costs of project administration that each incurs, estimated to be \$33,400 and \$841,800, respectively.

(5) Paragraph added as number 15 in Supplemental Watershed Agreement No. V is re-numbered to be paragraph number 18.

(6) Paragraph number 19 is added to read as follows:

The Sponsoring Local Organization will obtain and bear the cost for all necessary Federal, State, and local permits required by law, ordinance, or regulation for installation of the works of improvement.

(7) 825 feet of Dike on Bitter Creek is hereby deleted from the planned works of improvement.

The Sponsoring Local Organizations and NRCS further agree to all other terms, conditions, and stipulations of said watershed agreement not modified herein.

Hall-Childress Soil and Water Conservation District
Local Organization

By Justin L. Lewis
Title Chairman Hall-Childress SWCD
Date 9-17-06

The signing of this agreement was authorized by a resolution of the governing body of the Hall-Childress Soil and Water Conservation District adopted at a meeting held on 9-12-06

James James
(Secretary, Local Organization)

Hall and Donley Counties Water Control and Improvement District No. 1
Local Organization

By Andy Smith
Title CHAIRMAN
Date 11/21/06

The signing of this agreement was authorized by a resolution of the governing body of the Hall and Donley Counties Water Control and Improvement District No. 1 adopted at a meeting held on 11/21/06

Terrence J. Martin
(Secretary, Local Organization)

Donley County Soil and Water Conservation District
Local Organization

By Jack P. Moreman
Title Vice Chair
Date 10-10-06

The signing of this agreement was authorized by a resolution of the governing body of the Donley County Soil and Water Conservation District adopted at a meeting held on 10-10-2006.

Doug Wright
(Secretary, Local Organization)

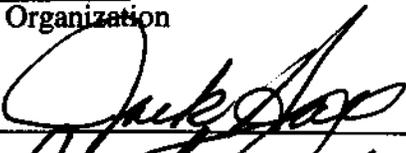
Hall County
Local Organization

By Jack Marling
Title Hall County Judge
Date 10/9/06

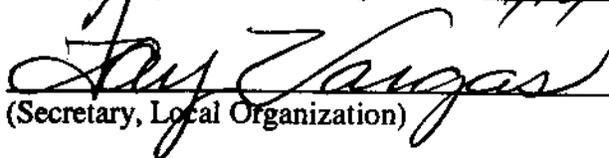
The signing of this agreement was authorized by a resolution of the governing body of Hall County adopted at a meeting held on 10-9-06.

Ray Bailey
(Secretary, Local Organization)

Donley County
Local Organization

By 
Title County Judge
Date 11-13-06

The signing of this agreement was authorized by a resolution of the governing body of Donley County adopted at a meeting held on 11/13/2006


(Secretary, Local Organization)

City of Lakeview
Local Organization

By 
Title MAYOR
Date OCTOBER 11, 2006

The signing of this agreement was authorized by a resolution of the governing body of the City of Lakeview adopted at a meeting held on 10/11/2006


(Secretary, Local Organization)

Natural Resources Conservation Service
United States Department of Agriculture

Approved By  Acting
NRCS State Conservationist

Date DEC 06 2006

INTRODUCTION

The plan for watershed protection and flood prevention for the Lakeview Watershed became effective on August 27, 1969. The plan was prepared by the Sponsoring Local Organizations with technical assistance from the Natural Resources Conservation Service (formerly the Soil Conservation Service). The U. S. Fish and Wildlife Service and Texas Parks and Wildlife Department assisted in preparation of the fish and wildlife aspects of the watershed plan. The Texas State Soil and Water Conservation Board and the Natural Resources Conservation Service provided technical assistance for development of the plan.

Lakeview Watershed comprises an area of 151,680 acres (237 square miles). It is located in Hall and Donley Counties in the southeast part of the panhandle of Texas. The watershed consists of five separate stream systems which drain into Mulberry Creek and the Prairie Dog Town Fork of the Red River. These stream systems are, from west to east, Brushy, Bitter, John Mann, Hogland Flat, and Oak Creeks.

Historically, the principle problems in the watershed have been frequent damages on about 18,000 acres of intensively managed agricultural land from floodwater, sediment, and scour erosion. The towns of Lakeview, Plaska, and Brice were suffering frequent flooding problems.

The original work plan developed to address these problems included the installation of 25 Floodwater Retarding Structures (FRS), 92,015 feet of Stream Channel Improvement, 31,320 feet of Floodwater Diversions, 5 Grade Stabilization Structures (GSS), 3,850 feet of Streambank Protection, and 3,000 feet of Dike. The plan also provided accelerated technical assistance to landowners to establish needed land treatment on 15,107 acres of cropland and 11,258 acres of grassland.

The plan has been supplemented five times since 1969. The supplements addressed the following items:

Supplement I – Effective date October 5, 1971, added provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970.

Supplement II – Effective date October 31, 1977, eliminated the non-project construction and installation services cost to be borne by the Sponsoring Local Organizations for FRS Nos. 101, 103, 104, 105E, 105W, 107 and 108.

Supplement III – Effective date February 21, 1979, added cost-share assistance for land treatment measures to control and stabilize critical sediment source areas.

Supplement IV – Effective date February 25, 1991, deleted GSS Nos. 203 and 204.

Supplement V – Effective date December 18, 1992, deleted FRS No. 108, deleted 92,015 feet of Stream Channel Improvement on Brushy Creek, John Mann Creek, and Oak Creek, deleted GSS Nos. 201, 202, and 205, deleted 31,320 feet of Floodwater Diversions Nos. I through V, deleted 3,000 of Dike (Structure No. 401), deleted 3,850 feet of Streambank Protection Structures (Structure Nos. 301 through 308 on Bitter Creek), added 825 feet of Dike on Bitter Creek, added certification regarding drug-free work place requirements, added certification regarding lobbying, and added certification regarding debarment, suspension, and other responsibility matters.

Minor revisions by letter exchange have resulted in changes to the work plan that relocated structures, reconfigured structures, and added an Addendum changing the interest rate for benefit-cost evaluations.

Actions to date include the installation of 24 FRS and the planned land treatment. The installation of these measures has reduced the resource problems in most of the watershed.

The purpose of this supplement is to further modify the plan at the request of the sponsoring local organizations. This supplement will change the following items in the watershed plan:

1. Delete 825 feet of Dike on Bitter Creek from the planned works of improvement in Hall County.
2. Update cost to 2005 prices.
3. Re-number paragraph 15 in Supplemental Watershed Agreement No. V to paragraph 18.
4. Add paragraph number 19 which contains a statement on obtaining required permits.

The sponsors requested the deletion of 825 feet of Dike on Bitter Creek because it was determined that the Dike is no longer needed. Local landowners have installed other conservation practices that have eliminated the need for the Dike and Bitter Creek has not had out of bank flow since 1992 when the Dike was planed. The sponsors are willing to accept the level of protection afforded by the 24 FRS and planned land treatment measures that have been completed. Land treatment measures continue to be carried out with assistance from other ongoing programs. The deletion of the Bitter Creek Dike will complete the project as planned and supplemented.

SUPPLEMENTAL WATERSHED PLAN NO. VI

LAKEVIEW WATERSHED, TEXAS

Need For Supplement

Since the original Watershed Agreement became effective on the 27th day of August 1969, it has become necessary to modify that agreement in order to facilitate the completion of the project. The sponsoring local organizations have requested the following changes in the original watershed plan as supplemented:

- (1) Delete 825 feet of Dike on Bitter Creek in Hall County.
- (2) Update costs to 2005 prices.
- (3) Re-number paragraph 15 in Supplemental Watershed Agreement No. V to paragraph 18.
- (4) Add statement on obtaining required permits.

Effects of Deleting the Works of Improvement

The flood protection provided by the planned works of improvement to be deleted at the request of the sponsoring local organizations has been partially replaced by flood protection provided by alternative practices installed by local landowners. Since the Bitter Creek Dike was added to the project by a plan revision in 1992, there has not been significant erosion of the channel or adjacent cropland fields. Twenty-four (24) of the originally planned twenty-five (25) FRS have been installed and are providing flood protection to the floodplain lands below the structures. Deletion of the 825 feet of Dike on Bitter Creek will result in only a slight reduction of floodwater damage benefits. The sponsors are willing to accept the reduction in benefits to the work plan by the deletion of the Dike.

Comparison of Benefits and Costs

The total average annual project cost (amortized land treatment and total structural measures costs) plus operation, maintenance and replacement is \$770,600. These measures are expected to produce average annual benefits of \$1,001,700. The benefit:cost ratio is 1.3 to 1.0.

Final Table 1 – Estimated Installation Cost
Lakeview Watershed, Texas
(Red River Watershed)

Installation Cost Item	Number		Estimated Cost (Dollars) ¹		
	Unit	Non-Fed. Land	PL-566 Funds	Other Funds	Total
			Non-Fed. Land NRCS ²	Non-Fed. Land	
LAND TREATMENT					
Cropland	Acres to be Protected	15,107	-	\$400,600	\$400,600
Grassland		11,258	-	\$244,000	\$244,000
Critical Area Stabilization		650	\$622,300	\$155,600	\$777,900
Technical Assistance			\$300,700	\$198,800	\$499,500
TOTAL LAND TREATMENT			\$923,000	\$999,000	\$1,922,000
STRUCTURAL MEASURES					
Floodwater Retarding Structures	No.	24	\$15,000,000	0	\$15,000,000
Subtotal – Construction			\$15,000,000	0	\$15,000,000
INSTALLATION SERVICES					
Engineering			\$452,000	0	\$452,000
Project Administration			\$841,800	\$33,400	\$875,200
Subtotal – Installation Services			\$1,293,800	\$33,400	\$1,327,200
OTHER COSTS					
Landrights			0	\$394,000	\$394,000
Subtotal – Other Costs			0	\$394,000	\$394,000
TOTAL STRUCTURAL MEASURES			\$16,293,800	\$427,400	\$16,721,200
TOTAL PROJECT			\$17,216,800	\$1,426,400	\$18,643,200
¹ 2005 Prices					
² Federal agency responsible for assisting in installation of works of improvement.					

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Final Table 2 - Estimated Cost Distribution - Structural and Non-structural Measures

Lakeview Watershed, Texas

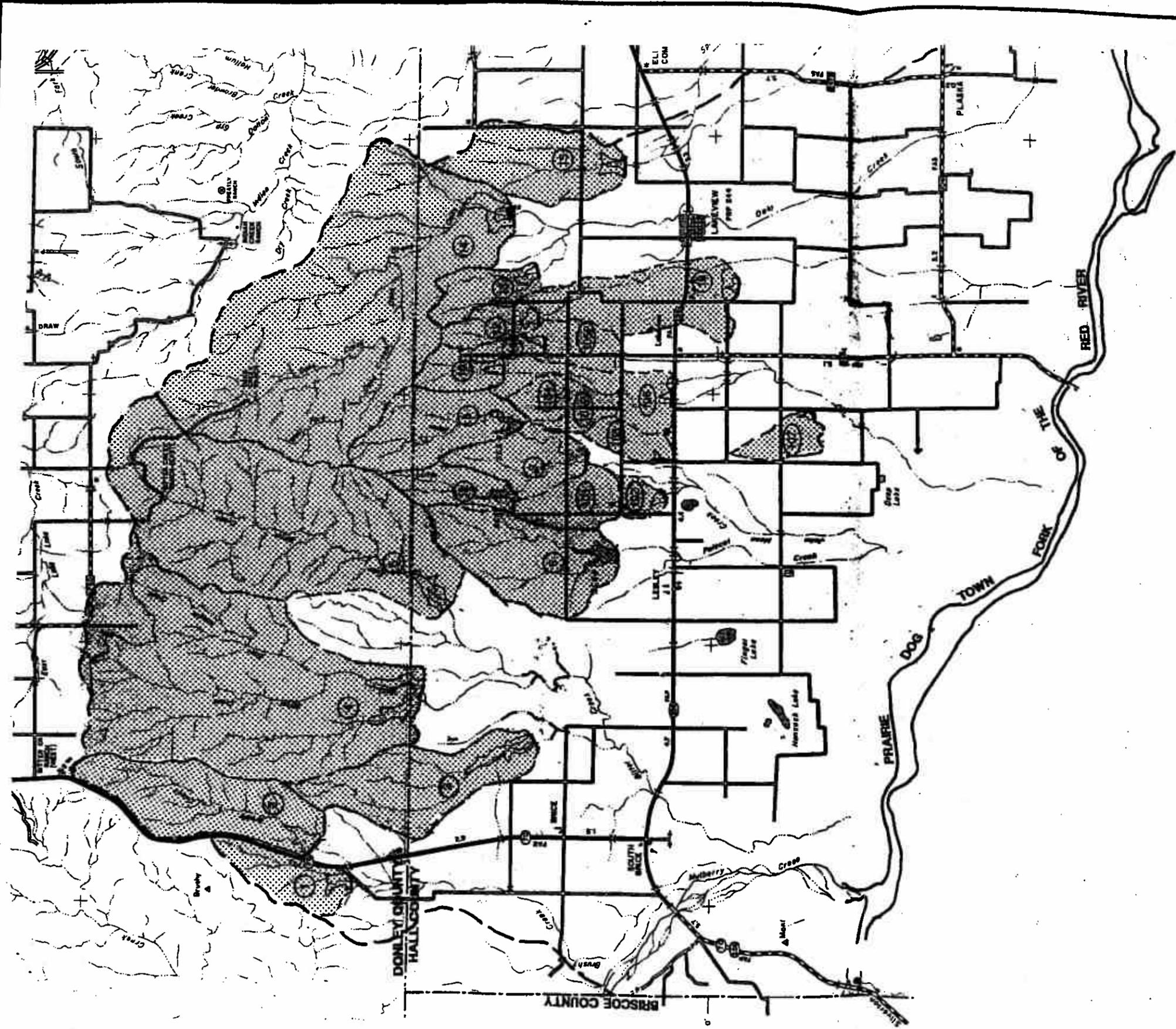
(Red River Watershed)

(Dollars) ^{1/}

Structure Number or Name	Installation Cost - PL-566 Funds			Installation Cost - Other Funds				Total Installation Cost		
	Construction	Engineering	Project Administration	Total PL-566	Construction	Engineering	Land Rights		Project Administration	Total Other
Constructed FRS 24 FRS	\$15,000,000	\$452,000	\$841,800	\$16,293,800	\$0	\$0	\$394,000	\$33,400	\$427,400	\$16,721,200
GRAND TOTAL	\$15,000,000	\$452,000	\$841,800	\$16,293,800	\$0	\$0	\$394,000	\$33,400	\$427,400	\$16,721,200

^{1/} 2005 Prices

August/2006



LEGEND

- Numbered Highways
- Paved Road
- Improved Road
- Unimproved Road
- Towns
- Streams
- Watershed Divide
- Floodwater Retarding Structure
- Drainage Area Controlled by Structure
- Site Number

Site No.	Area in Acres	No. of Drainage Areas
1	1150	8
2	3154	10
3	2823	11
4	1293	12
5	9779	13
6	3117	14
7	1011	15
8	2285	16
101	819	105E
102	576	106
103	512	107
104	435	
105W	1011	

FIGURE 1

PROJECT MAP
LAKEVIEW WATERSHED
OF THE PRAIRIE DOG TOWN FORK
OF THE RED RIVER

Hall and Donley Counties, Texas
 U.S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE

