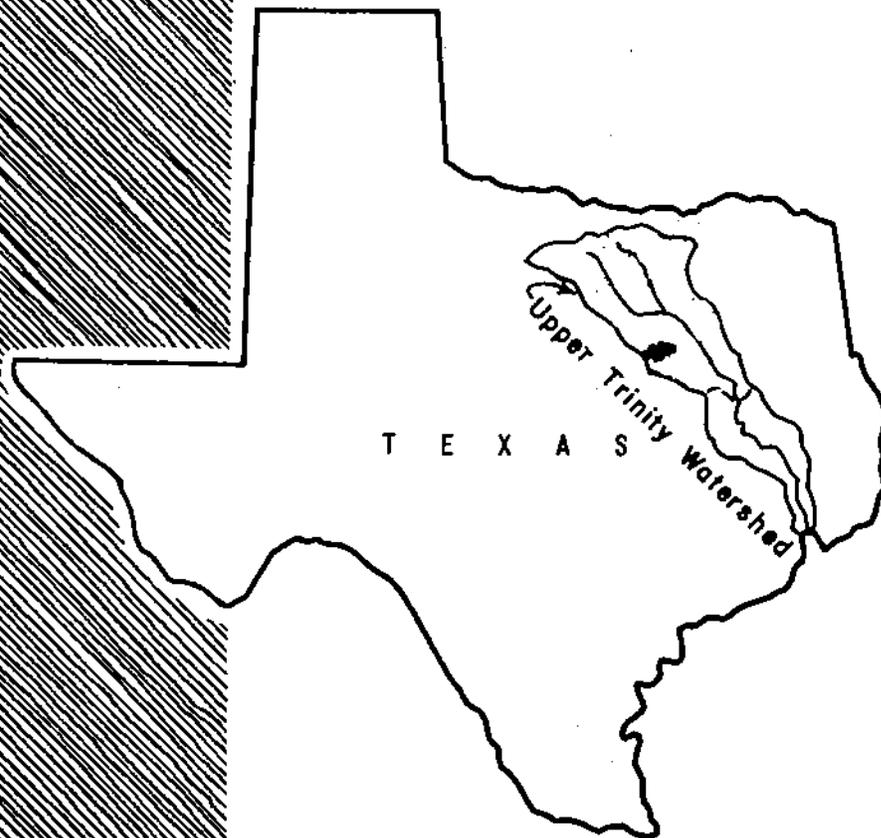


**SUPPLEMENTAL
WORK PLAN III**

**CHAMBERS CREEK
WATERSHED**

OF THE TRINITY RIVER WATERSHED
JOHNSON, HILL, ELLI S AND NAVARRO COUNTIES, TEXAS



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

SUPPLEMENTAL WATERSHED WORK PLAN AGREEMENT NO. III

Between the

Navarro Soil and Water Conservation District
Local Organization

Ellis-Prairie Soil and Water Conservation District
Local Organization

Hill County-Blackland Soil and Water Conservation District
Local Organization

Johnson County Soil and Water Conservation District
Local Organization

Dalworth Soil and Water Conservation District
Local Organization

Johnson County Commissioners Court
Local Organization

Hill County Commissioners Court
Local Organization

Ellis County Commissioners Court
Local Organization

Navarro County Commissioners Court
Local Organization

City of Alvarado, Texas
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 Chambers Creek Watershed, State of Texas, executed by the Sponsoring Local Organization named therein and the Service, became effective on the 9th day of December 1955; and

Whereas, the Supplemental Watershed Work Plan Agreement No. I for the Chambers Creek Watershed which added Johnson, Hill, Ellis, and Navarro Counties Commissioners Courts as Sponsoring Local Organizations and which set forth agreements with other sponsors on responsibilities of each, executed by the Sponsoring Local Organization named therein and the Service became effective on the 14th day of April 1959; and

Whereas, the Supplemental Watershed Work Plan Agreement Number II for said watershed, State of Texas, executed by the Sponsoring Local Organizations named therein and the Service became effective on the 25th day of October 1962; 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, the creation of the Hill County-Blackland and the Johnson County Soil and Water Conservation Districts has changed the names and boundaries of sponsoring soil and water conservation districts. The Navarro-Hill Soil Conservation District has been changed to the Navarro Soil and Water Conservation District with a change in boundary. The Nolan-Aquilla District has been disbanded and its boundaries and responsibilities have been assumed by other soil and water conservation districts within the boundaries of the watershed; and

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

Whereas, a Supplemental Watershed Work Plan No. III which modified the Watershed Work Plan dated July 1955 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. 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	48.31	51.69	9,240

2. 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 Costs</u> (dollars)
Multiple-Purpose Structure No. 42	41.93	58.07	10,574
All Other Structural Measures	00.00	100.00	666,990

3. The Sponsoring Local Organization and the Service will each bear the costs of Project Administration which it incurs, estimated to be \$61,610 and \$1,770,440, respectively.
4. 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.
5. 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 provide 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.

Navarro Soil and Water Conservation District
Local Organization

By B. Lynn Sanders, Jr.
B. Lynn Sanders, Jr.

Title Chairman

Address Corsicana, Texas 75110
Zip code

Date January 5, 1972

The signing of this agreement was authorized by a resolution of the governing body of the Navarro Soil and Water Conservation District Local Organization adopted at a meeting held on September 13, 1971

J. E. Fortson
(Secretary, Local Organization)
J. E. Fortson

Address Corsicana, Texas 75110
Zip Code

Date January 5, 1972

Ellis-Prairie Soil and Water Conservation District
Local Organization

By Miles Hastings
Miles Hastings

Title Chairman

Address Wkahachie, Tex 75165
Zip Code

Date January 11, 1972

The signing of this agreement was authorized by a resolution of the governing body of the Ellis-Prairie Soil and Water Conservation District Local Organization adopted at a meeting held on January 11, 1972

Marvin Borders
(Secretary, Local Organization)
Marvin Borders

Address Wkahachie, Tex 75165
Zip Code

Date January 11, 1972

Hill County-Blackland Soil and Water Conservation District
Local Organization

By Ray Sawyer
Ray Sawyer

Title Chairman

Address Hillsboro, Texas 76645
Zip code

Date January 3, 1972

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

adopted at a meeting held on January 3, 1972

Clyde F. Nowlin
(Secretary, Local Organization)
Clyde F. Nowlin

Address Hillsboro, Texas 76645
Zip Code

Date January 3, 1972

Johnson County Soil and Water Conservation District
Local Organization

By N. P. Stephenson
N. P. Stephenson

Title Chairman

Address Chubbuck, Texas 76031
Zip Code

Date January 3, 1972

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

adopted at a meeting held on January 3, 1972

Lloyd Martin
(Secretary, Local Organization)
Lloyd Martin

Address Chubbuck, Texas 76031
Zip Code

Date January 3, 1972

Dalworth Soil and Water Conservation District
Local Organization

By Tav C. Lupton
Tav C. Lupton

Title CHAIRMAN

Address DALLAS, TEX 75202
Zip code

Date JANUARY 10, 1972

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 August 18, 1971

O. H. Skinner
(Secretary, Local Organization)
O. H. Skinner

Address DALLAS, TEX 75202
Zip Code

Date JANUARY 10, 1972

Johnson County Commissioners Court
Local Organization

By Thomas E. Ball
Thomas E. Ball

Title County Judge

Address Chilmark, Texas 76031
Zip Code

Date January 3, 1972

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

adopted at a meeting held on January 3, 1972

Joe L. Townes
(Secretary, Local Organization)
Joe L. Townes

Address Chilmark, Texas 76031
Zip Code

Date January 3, 1972

Hill County Commissioners Court

Local Organization

By Gordon R. Kubank
Gordon R. Kubank

Title County Judge

Address Billbaker, Texas 76645
Zip code

Date January 4, 1972

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

Local Organization

adopted at a meeting held on January 4, 1972

Glenn Morgan
(Secretary, Local Organization)
Glenn Morgan

Address Billbaker, Texas 76645
Zip Code

Date January 4, 1972

Ellis County Commissioners Court

Local Organization

By Milton Hartsfield
Milton Hartsfield

Title County Judge

Address Waxahachie, Tex 75160
Zip Code

Date January 11, 1972

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

Local Organization

adopted at a meeting held on September 17, 1971

Jackie Griffin, Deputy Co. Clerk
(Secretary, Local Organization)
Jackie Griffin

Address Waxahachie, Tex 75160
Zip Code

Date January 11, 1972

Navarro County Commissioners Court
Local Organization

By Kenneth A. Douglas
Kenneth A. Douglas

Title County Judge

Address Cassiana, Texas 75110
Zip Code

Date January 5, 1972

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

Local Organization

adopted at a meeting held on September 13, 1971

H. Clyde Riddels
(Secretary, Local Organization)
H. Clyde Riddels

Address Cassiana, Texas 75110
Zip Code

Date January 5, 1972

City of Alvarado, Texas

Local Organization

By E. G. Kiblinger
E. G. Kiblinger

Title Mayor

Address Alvarado, Texas 76009
Zip Code

Date February 1, 1972

The signing of this agreement was authorized by a resolution of the governing body of the City of Alvarado, Texas

Local Organization

adopted at a meeting held on February 1, 1972

Mrs. Nova C. Jackson
(Secretary, Local Organization)
Mrs. Nova C. Jackson

Address Alvarado, Texas 76009
Zip Code

Date February 1, 1972

Soil Conservation Service

United States Department of Agriculture

By Calvin W. Graham
State Conservationist

Date 1972 (2-4-72)

SUPPLEMENTAL
WATERSHED WORK PLAN NUMBER III

CHAMBERS CREEK WATERSHED
Of the Trinity River Watershed
Johnson, Hill, Ellis, and Navarro 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:

Navarro Soil and Water Conservation District

Ellis-Prairie Soil and Water Conservation District

Hill County-Blackland Soil and Water Conservation District

Johnson County Soil and Water Conservation District

Dalworth Soil and Water Conservation District

Johnson County Commissioners Court

Hill County Commissioners Court

Ellis County Commissioners Court

Navarro County Commissioners Court

City of Alvarado, Texas

With Assistance By:

U. S. Department of Agriculture
Soil Conservation Service

November 1971

SUPPLEMENTAL
WATERSHED WORK PLAN NUMBER III

CHAMBERS CREEK WATERSHED
Of the Trinity River Watershed
Johnson, Hill, Ellis, and Navarro Counties, Texas

November 1971

PURPOSE OF THE SUPPLEMENTAL WORK PLAN

It has become necessary to modify the watershed work plan, as supplemented, for Chambers Creek Watershed to incorporate provisions for implementing the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970. In order to simplify the cost-sharing of relocation payments and set forth the provisions for providing relocation advisory assistance services, it is necessary to modify the watershed work plan, as supplemented to 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, as supplemented.

Works of Improvement to be Installed

Under present conditions, the acquisition of land rights needed for the installation of Floodwater Retarding Structure No. 100A will result in the displacement of one family from one owner-occupied dwelling, and personal property from out buildings. The installation of Floodwater Retarding Structure No. 120 will result in the displacement of personal property from out buildings. 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 displacements indicated under "Works of Improvements to be Installed" are estimated to be \$9,240. After July 1, 1972, the share of these costs to be borne by Federal funds is 51.69 percent and the share to be borne by other funds is 48.31 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 Ellis County in providing relocation advisory assistance.

The local costs for project administration include sponsors costs for overhead and organizational costs, whatever construction inspection they desire to make at their own expense and all relocation advisory assistance service costs. Local costs for providing relocation advisory assistance services are estimated to be \$700.

Comparison of Costs and Benefits

The total average annual cost of structural measures (amortized total installation cost, plus operation and maintenance) is \$496,900. These measures are expected to produce average annual benefits, excluding secondary benefits, of \$1,050,100, resulting in a benefit to cost ratio of 2.10:1.0. The ratio of total average annual project benefits (\$1,152,740) accruing to structural measures to the average annual cost of structural measures (\$496,900) is 2.30:1.0.

Project Installation

The Ellis County Commissioners Court will be responsible for providing relocation advisory assistance services and the local share of relocation costs required for the installation of Floodwater Retarding Structure Nos. 100A and 120. The Ellis County Commissioners Court through its own facilities and staff will: (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.

The Ellis County Commissioners Court 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 persons.

Financing Project Installation

The local share of costs for relocation payments and all project administration costs for relocation advisory assistance services required for the installation of Floodwater Retarding Structure Nos. 100A and 120 will be borne by the Ellis County Commissioners Court which has adequate funds available from tax resources.

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

Item	Installation Cost - Federal Funds			Installation Cost - Other Funds			Total Instal- lation Cost
	Construc- tion	Engl- neering	Total	Construc- tion	Engl- neering	Total	
Structural Measures Constructed:							
Floodwater Retarding Structures (115)	4,570,900	403,200	4,974,100	-	-	956,580	5,930,680
Multiple-Purpose Structure No. 42	116,500	5,830	122,330	66,240	4,210	133,500	204,450
Stream Channel Improvement Post Oak and Onion Creek (9.5 Miles)	199,200	12,860	212,060	-	-	31,590	243,650
Subtotal	4,886,600	421,890	5,308,490	66,240	4,210	1,121,670	6,501,110
Remaining Structural Measures:							
Floodwater Retarding Structures to be Constructed (31)	1,833,600	136,320	1,969,920	-	-	364,630	2,334,550
100A	111,190	6,670	122,460	-	4,300	23,720	150,480
120	54,420	4,350	58,950	-	160	8,960	68,070
Stream Channel Improvement (71.7 Miles)	2,071,700	103,590	2,175,290	-	-	238,400	2,413,690
Subtotal	4,070,910	250,930	4,326,620	-	4,460	635,710	4,966,790
Subtotal - Watershed	8,957,510	672,820	9,635,110	66,240	4,210	1,757,380	11,467,900
Project Administration			1,770,440				1,832,790
GRAND TOTAL	8,957,510	672,820	11,405,550	66,240	4,210	1,757,380	13,299,950

1/ Price Base: 1971 prices for structural measures remaining to be constructed and actual costs for structural measures 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.

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

Installation Cost Item	Unit	Land	Estimated Cost (Dollars) 1/			
			Number	Federal	Other	Total
			Non-	Non-	Non-	
			Federal	Federal	Federal	
LAND TREATMENT						
Soil Conservation Service						
Cropland	Acre	254,297	-	4,584,676	4,584,676	
Pastureland	Acre	475,905	-	4,569,106	4,569,106	
Technical Assistance			414,085	-	414,085	
TOTAL LAND TREATMENT			414,085	9,153,782	9,567,867	
STRUCTURAL MEASURES						
Construction						
Soil Conservation Service						
Floodwater Retarding Structure	No.	148	6,570,110	-	6,570,110	
Multiple-Purpose Struc. No. 42	No.	1	116,500	66,240	182,740	
Stream Channel Improvement	Mile	81.2	2,270,900	-	2,270,900	
Subtotal - Construction			8,957,510	66,240	9,023,750	
Engineering Services						
Soil Conservation Service			672,820	4,210	677,030	
Subtotal - Engineering Services			672,820	4,210	677,030	
Relocation Payments						
Soil Conservation Service			4,780	4,460	9,240	
Subtotal - Relocation Payments			4,780	4,460	9,240	
Project Administration						
Soil Conservation Service						
Relocation Advisory Assistance Services			-	700	700	
Construction Inspection			958,290	7,300	965,590	
Other			812,150	53,610	865,760	
Subtotal - Administration			1,770,440	61,610	1,832,050	
Other Costs						
Land Rights			-	1,757,380	1,757,380	
Water Rights			-	500	500	
Subtotal - Other			-	1,757,880	1,757,880	
TOTAL STRUCTURAL MEASURES			11,405,550	1,894,400	13,299,950	
TOTAL PROJECT			11,819,635	11,048,182	22,867,817	

1/ Price Base: 1971 prices except for structural measures constructed which are actual costs.

REVISED TABLE 2A - COST ALLOCATION AND COST SHARING SUMMARY
 Chambers Creek Watershed, Texas
 (Trinity River Watershed)

(Dollars) 1/

Item	COST ALLOCATION			COST SHARING		
	Purpose	Federal Funds	Other Funds	Purpose	Federal Funds	Other Funds
	Flood : Prevention: Supply :					
	Total	Total	Total	Total	Total	Total
<u>Single-Purpose</u>						
Floodwater Retarding Structures and Stream Channel Improvement	11,141,120 -	11,141,120	9,512,780 -	9,512,780	1,628,340	1,628,340
<u>Multiple-Purpose</u>						
Multiple-Purpose Structure No. 42	224,390	102,390	326,780	122,330 -	122,330	102,060
GRAND TOTAL	11,365,510	102,390	11,467,900	9,635,110 -	9,635,110	1,730,400
						102,390
						1,832,790

1/ Price Base: 1971 prices for structural measures remaining to be constructed and actual costs for structural measures constructed.

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

(Dollars) 1/

Evaluation Unit	: Amortization of Installation Cost <u>2/</u>	: Operation and Maintenance Cost	: Total
148 Floodwater Retarding Structures, 1 Multiple-Purpose Structure, and Approximately 81.2 Miles of Stream Channel Improvement.	404,360	27,940	432,300
Project Administration	64,600		64,600
GRAND TOTAL	468,960	27,940	496,900

1/ Price Base: Installation - 1971 prices for structural measures remaining to be constructed and actual costs for structural measures constructed.

2/ 50 Years at 2.50 percent.

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

(Dollars)

Evaluation Unit	AVERAGE ANNUAL BENEFITS				Secondary	Total	Average Annual Cost	Benefit-Cost Ratio
	Damage Reduction	More Intensive Land Use	Other	Municipal Water Supply				
148 Floodwater Retarding Structures, 1 Multiple-Purpose Structure, and Approximately 81.2 Miles of Stream Channel Improvement.	798,980	162,980	23,700	64,440	102,640	1,152,740	432,300	2.7:1
Project Administration							64,600	
GRAND TOTAL	798,980	162,980	23,700	64,440	102,640	1,152,740	496,900	2.3:1

1/ Price Base: Long Term Prices

2/ In addition, it is estimated that land treatment measures will provide flood damage reduction benefits of \$207,000 annually.

3/ Reduction in cost to Bardwell Reservoir.

4/ From Table 4.

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