

TEXAS WATER DEVELOPMENT BOARD

REPORT 294

SURVEYS OF IRRIGATION IN TEXAS 1958, 1964, 1969, 1974, 1979, AND 1984

Based on surveys made cooperatively by the Soil Conservation Service, U.S. Department of Agriculture; the Texas State Soil and Water Conservation Board; and the Texas Water Development Board.

ABSTRACT

Due to higher energy costs, declining well yields, unavailability of labor, and depressed farm prices, less acreage was irrigated and less water applied in 1984 than in prior surveys. Irrigation in Texas in 1984 was 6.8 million acres using a total of 9.3 million acre-feet of on-farm use of water. This is a decrease of 1.0 million acres and 380,000 acre-feet from the 1979 survey. "Surveys of Irrigation in Texas, 1958, 1964, 1969, 1974, 1979, and 1984" is based on cooperative surveys by the Texas Department of Water Resources, the U.S. Department of Agriculture's Soil Conservation Service, and the Texas State Soil and Water Conservation Board. Information provided includes irrigated acreage and crops, water use, sprinkler irrigation, irrigation operations, and irrigation conservation practices. Irrigation acreage and water use are summarized by counties, river and coastal basins, soil and water conservation districts, and 11 principal irrigation regions of the State.

In much of Texas, irrigation water prevalently is applied in climatic provinces where natural rainfall may contribute significantly to the soil moisture condition. Irrigation, thus practiced, eliminates the risk of recurring lean rainfall periods and improves the seasonal moisture supply for crop-growing efficiency. The amounts of water consequently used for irrigation fluctuates from year to year with changes in climatic conditions and the amount of acres irrigated. During the survey period, on-farm water use for irrigation jumped, along with irrigated acres, from 9.6 million acre-feet on 6.7 million acres in 1958 to 12.5 million acre-feet on 7.7 million acres, in the dry year 1964. Irrigation water use then declined to 11.6 million acre-feet used on an expanding 8.2 million acres in 1969, a relatively wet year, then increased to 13.1 million acre-feet on 8.6 million acres in 1974, then declined to 9.7 million acre-feet on 7.8 million acres in 1979, and declined again to 9.3 million acre-feet on 6.7 million acres in 1984.

About 50 percent of the total dollar value of harvested crops in Texas comes from irrigated crops, planted on only about 25 percent of the cropland. Leading irrigated crops in 1984 were cotton, 2,112,000 acres; wheat, 1,180,000 acres; grain sorghum, 1,068,000 acres; and corn, 777,000 acres.

Irrigation wells continue to increase in number, even though some of the older wells have been abandoned. There were 55,000 irrigation wells in Texas in 1958; 70,000 in 1964; 83,000 in 1969; 90,000 in 1974; 95,000 in 1979; and 100,000 in 1984. In the 1984 survey, ground water from these wells constitutes 74 percent of the total on-farm water use for irrigation in the State, while 26 percent is supplied from surface water.

Water conservation measures are being practiced by Texas irrigators to "stretch" and conserve their precious water supply. In many areas, water losses due to seepage and evaporation are being reduced by adding concrete linings to the delivery ditches or by replacing ditches with underground pipeline. Surveys of water conveyance methods in 1984 showed there were 1,062 miles of concrete-lined ditches serving 138,000 acres and 21,000 miles of underground pipeline serving 4.6 million acres. These conservation measures have thus been

applied to 71 percent of Texas irrigated land in 1984. New methods of applying water to crops also hold promise for water savings. Foremost among the newer methods being applied in Texas is trickle irrigation, by which a slow, continuous or nearly continuous flow of water is delivered to the root zone of each plant from plastic tubing. Trickle irrigation was used on 29,900 acres in 1984 compared to 19,800 acres in 1979 and 4,000 acres in 1974. Leading trickle irrigated crops in 1984 were pecans, 20,600 acres; citrus, 4,000 acres; and grapes 2,200 acres.

TABLE OF CONTENTS

DOE HOUSE THE PARTY OF THE PART	Page
ABSTRACT	v
ACKNOWLEDGEMENTS	1
HISTORY OF IRRIGATION	2
DEVELOPMENT OF SURVEYS	5
1984 SURVEY PROCEDURES	5
PRESENTATION OF DATA	6
RESULTS AND SUMMARY	9
General	9
Irrigation Water Use	10
Irrigated Crops	15
Major Irrigation Areas	23
The High Plains	24
Lower Rio Grande Valley	25
North-Central Texas	25
Trans-Pecos	26
Winter Garden-San Antonio Area	27
Middle Rio Grande Valley	27
San Angelo Area	28
Gulf Coast Prairie	28
West Cross Timbers	29

TABLE OF CONTENTS—Continued

			Page
		Brazos River Valley	29
		Land Resources for Irrigation	29
		Sprinkler Systems	34
		Trickle Irrigation	35
		Conservation Irrigation Measures	35
F	REF	ERENCES	39
		TABLES	
	1.	Irrigation Summary for Counties, 1958, 1964, 1969, 1974, 1979, and 1984	41
	2.	Irrigation Summary for River and Coastal Basins, 1958, 1964,1969, 1974, 1979, and 1984	87
	3.	Irrigation Summary for Soil and Water Conservation Districts,1984	103
	4.	County Acreages of Irrigated Crops, 1974, 1979, and 1984	115
	5.	Miscellaneous Countywide Data from 1984 Survey	201
	6.	Irrigated Acres and Water Use by Major Irrigation Areas, 1958, 1964, 1969, 1974, 1979, and 1984	212
		FIGURES	
	1.	Chart of Texas Irrigation Development, 1889-1984	4
	2.	Irrigation Systems Using Ground Water and Surface Water	7
	3.	Map Showing Total Precipitation in 1984, and Monthly Distribution at Representative Points	11
	4.	Map Showing Normal Annual Precipitation, and Annual Precipitation for Survey Years at Representative Points	13
	5.	Sprinkler Irrigation Systems	33

TABLE OF CONTENTS—Continued

		Page		
6.	Trickle Irrigation Systems	34		
7.	Map Showing Distribution of Irrigated Acreage by Counties, 1984	85		
8.	Map Showing River and Coastal Basins and Zone Divisions	101		
9.	Map Showing Zones and Districts of the Texas State Soil and Water Conservation Board	113		
10.	Map Showing Counties Comprising Major Irrigation Areas	228		
11.	Map Showing Location of Irrigated Land in Texas, 1984	229		
	APPENDIX			
	Soil Conservation Service Instructions to Field Staff for ing 1984 Irrigation Survey	233		
Exar	mple of Data Sheets 1 and 2 for 1984 Irrigation Survey-Hidalgo County	241		
Rive	mple Map—Hidalgo County, Showing Delineation of Irrigated Areas, or Basin and Zone, and Soil and Water Conservation District			
on County Highway Map Base				

TABLE OF CONTENDED AND SUBMERS

*	

SURVEYS OF IRRIGATION IN TEXAS 1958, 1964, 1969, 1974, 1979, AND 1984

ACKNOWLEDGEMENTS

Each of the six irrigation surveys was made cooperatively by the Soil Conservation Service of the United States Department of Agriculture, the Texas State Soil and Water Conservation Board, and the Texas Department of Water Resources, or the Department's predecessor agencies. Results of 1958, 1964, 1969, 1974, and 1979 surveys have been published previously. To facilitate comparisons, this report includes most of the basic data from the previous reports as well as data from the new 1984 irrigation survey.

The preparation of maps showing location of irrigated land, and the compilation of acreages of crops, amounts of water used, and other survey data, was accomplished by the Soil Conservation Service in its various field offices, by district conservationists and technicians under general direction of the area conservationists and area engineers. These activities in the 1984 irrigation survey were directed by Civil Engineers James Hailey, L. Dennis Medlin, and Tom Gray and coordinated by Water Management Engineer (Irrigation) Eugene Lindemann, under the general guidance of State Conservation Engineer Gene C. Vittetoe and State Conservationist Billy Griffin. Messrs. Hailey, Medlin, Gray, and Lindemann conducted the training meetings of Soil Conservation Service area engineers who gave leadership to the work done by area and field office personnel.

The Texas State Soil and Water Conservation Board, under the supervision of Harvey Davis, Executive Director, assisted in developing procedures for making the 1984 irrigation survey, and provided soil and water conservation district boundary delineations on the county maps used in making the survey. These delineations made possible the compositing of survey data for each soil and water conservation district.

The State Department of Highways and Public Transportation provided county maps, which were used as base maps for recording irrigation survey data.

Within the Texas Department of Water Resources, the Economics, Water Requirements and Uses Section, and the Agriculture Use Unit, guided the planning, development of procedures, and scheduling of the 1984 irrigation survey; assisted the Soil Conservation Service staff in giving training to the area engineers; and prepared the survey data for machine processing. Atlan Pfluger, Terrell Robison, and Comer Tuck of the Agriculture Use Unit worked on all these activities and prepared the final report with other staff assistance. Dr. Gerald Higgins, Chief, Economics, Water Requirements and Uses Section, provided general support and guidance to the irrigation survey. Other Department staff supported the survey and this report with assistance in typing, drafting, and data processing activities.

HISTORY OF IRRIGATION¹

Irrigation farming in Texas antedates any historical records available. Some believe that irrigation has been practiced for a longer period in Texas than in any other part of the United States (Nagle and Fortier, 1910). The earliest record of irrigation in Texas is that reported by Coronado, an early Spanish explorer, who found Indians irrigating crops in the vicinity of the present City of El Paso when his expedition reached there in 1541 (Hutson, 1989). However, this was not the first irrigation practiced in the State. Evidence of ancient irrigation systems in some of the valleys of the Trans-Pecos area indicate that irrigation had helped support a prehistoric population (Hutson, 1898).

A revolt by the Pueblo Indians in 1680 drove the Spaniards and many Christian Indians out of New Mexico. They fled down the Rio Grande to the Mission of Guadalupe, where the City of Juarez, Mexico, now stands. The towns of Ysleta and Socorro were founded by these Christian Pueblo Indians (Harrington, 1952), who used irrigation as a means of producing their crops in that area of scanty rainfall.

The Spanish Mission of San Antonio de Valero, the Alamo, was established on the San Antonio River in 1718. The San Jose, Concepcion, San Juan de Capistrano, and La Espada Missions were established later. San Antonio, the center of Spanish power in the territory, had the largest area of early irrigation in Texas (Harrington, 1952).

The United States Senate passed a resolution on August 4, 1886 inquiring into the status of irrigation in that portion of the United States largely west of the one-hundredth meridian and from the Rio Grande to the border of the British Territory on the north. Responding to this resolution, a report of the U.S. Department of Agriculture (Hinton, 1886, p. 118) includes a quotation from James B. Newcomb of San Antonio that stated there was 50,000 acres of irrigated land in Bexar County valued at \$50.00 to \$300.00 per acre. Irrigation water, sold by hours of use and at nominal price, was used only on gardens as the rainfall was considered adequate for small grains and fruits.

Other early references to the use of irrigation in Texas include its application by Indians in the vicinity of the present City of Wichita Falls and by the Spanish who founded the City of Laredo (Harrington, 1952). Irrigation was also used by the Franciscan fathers who established the San Saba Mission and built canals at the presidio on the San Saba River in 1756 (Hughes and Motheral, 1950).

One of the first irrigation developments by Anglo-Americans occurred in 1853 near the present town of Balmorhea in the Trans-Pecos area of the State (Hughes and Motheral, 1950). Other developments in the Trans-Pecos utilized water of the Rio Grande and the perennial springs of the area. Large-scale development of water supplies in the Rio Grande and the Pecos River came after 1880 when railroads were extended into the area. Development along the Pecos River soon exceeded the dependable supply of water, and some of the irrigation projects were actually abandoned before completion (Hughes and Motheral, 1950). Irrigation along the Rio Grande developed rather slowly until completion of the Elephant Butte project in 1916. Development in

¹This section is extracted largely from a Texas A&M University publication, *Agricultural Resources Related to Water Development in Texas*, March 1968.

the Upper Rio Grande Valley has remained nearly constant since 1925. More recent developments in the Trans-Pecos have utilized ground water available in some of the valleys and basins of the area.

Irrigation was being practiced to some extent in most parts of the Rio Grande Plain by 1897 (Hutson, 1898). Irrigation farming had begun in the Lower Rio Grande Valley in 1876. However, little progress was made in this area until a railroad for the area was built in 1904. Water from artesian wells was used for irrigation in Zavala County and Bexar County in the late 1890's. The first flowing well was completed in Atascosa County in 1904 (Lonsdale, 1935). Completion of a similar well in Frio County in 1905 marked the beginning of irrigation in that area. Irrigation development in the Rio Grande Plain, centered primarily in the Lower Rio Grande Valley and the Winter Garden area, has expanded. Some irrigation has developed in the Coastal Bend, using the limited quantities of surface water and relatively poor quality ground water that are available.

Irrigated rice production began in the Coast Prairie before 1900. However, production of this crop was not significant until about 1910. Rice has continued to be the principal irrigated crop in the area.

Irrigation began on the High Plains with the completion of the first successful irrigation well on the J. H. Slaton farm, four miles west of Plainview, in 1911 (White, Broadhurst, and Lang, 1946). Development of the vast ground-water resource of the High Plains progressed very slowly until 1935. Drought and improved efficiency of pumps and power units stimulated increased interest in irrigation by 1936 (Jones and Gaines, 1941). Irrigation farming soon expanded from the early centers around Plainview, Hereford, and Muleshoe into every county of the High Plains. After World War II, irrigated acreage increased at a phenomenal rate.

Irrigation in other parts of the State has been developed primarily on isolated tracts by individuals who desired to eliminate the crop production hazards of droughts. The extent of development has depended primarily upon the ease with which ground water supplies can be developed. Although many of the individual developments have utilized surface waters, most of the irrigated acreage in these isolated areas is supported with ground water. Significant acreages have been developed in the alluvial valleys of some of the major streams, particularly the Brazos River.

Through 1974, the statewide trend in irrigated acreage had been upward since the first historical developments, but the increase has not occurred at a constant rate. Some periods have shown rapid increases in irrigation development, while others have shown only slight increases (Figure 1). General economic conditions, technological improvement in irrigation equipment, climatic conditions, and other factors have influenced interest in irrigation and the development of irrigated agriculture in the State.

In 1979, weather conditions caused a downward trend in irrigated acreage. A downward trend continued in 1984 but this trend was not for the most part weather related. Economic conditions such as higher energy costs, declining well yields, depressed farm prices, and other related economic conditions dropped irrigated acreage from 7.8 million acres in 1979 to 6.7 million acres in 1984.

The census for the crop year of 1889 reported over 18,000 acres irrigated on 623 farms. By 1899, the area irrigated approached 50,000 acres on 1,325 farms. Comparatively rapid development occurred during the period 1900-09. The area irrigated in 1909 was about 451,000 acres.

Development was much slower from 1910 to 1929 when about 594,000 acres was irrigated. Irrigated acreage increased by about 300,000 acres during the next 10 years. The census of 1939 reported nearly 895,000 acres irrigated. Particularly rapid irrigation development followed the end of World War II. The 1949 census of agriculture reported 3.1 million acres irrigated, and the 1958 irrigation survey showed 6.7 million acres irrigated. Subsequent surveys reported 7.7 million acres in 1964; 8.2 million acres in 1969; 8.6 million acres in 1974; and 7.8 million acres in 1979. By 1984 the area irrigated in the State was 6.7 million acres, as was learned in the 1984 irrigation survey (Figure 1).

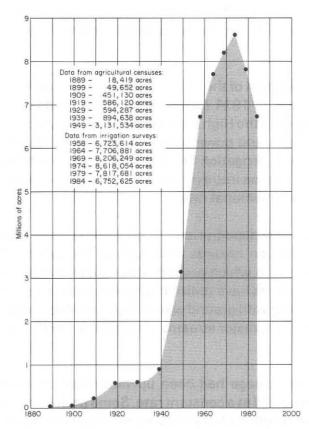


Figure 1.—Texas Irrigation Development, 1889-1984

The history of irrigation in Texas has recorded some failures because of inadequate water supply, poor water quality, poor soil conditions, inadequate irrigation systems, or inefficient water management. On the other hand, successful irrigation enterprises have been developed in every area of the State including the eastern humid areas.

Irrigated agriculture was vital to the existence of the early historical settlements, especially those in the arid sections of the State. Today, irrigation plays a significant role in the agricultural economy of the State. The irrigated cropland harvested in 1948 amounted to about 10 percent of the State's total harvested cropland and accounted for about 30 percent of the value of crops produced (Hughes and Motheral, 1950).

In 1957, a year of above average rainfall, approximately 42 percent of the total value of all the principal crops grown in Texas was produced on the 18 percent of the harvested

cropland which was irrigated.² Data for 1984 indicate cash receipts from statewide crop production were approximately 3.4 billion. Of this amount, receipts from irrigated crops were estimated at about 50 percent of total crop production from an estimated 25 percent of the total cropland in the State.

Maintaining water conditions in the soil favorable to plant growth continues to be an especially important requirement in the arid and semi-arid parts of the State where the rainfall is

²Burleigh, H. P., Paper presented at the Irrigation Short Course, Texas A&M University, *College Station, Texas, January 1958.

DEVELOPMENT OF SURVEYS

Data on irrigated lands have been inadequate and irrigation water-use data, which are necessary to assess and project agricultural water use and needs accurately, have not been generally available. For other forms of water use, data are generally collected annually and are more readily available. While irrigation acreage surveys have been made annually in some areas of the State, these do not fully meet the planning needs of State and Federal agencies.

Cooperative arrangements were made in 1958 with the Soil Conservation Service of the United States Department of Agriculture to survey Texas irrigation. After this first survey, it was agreed to re-survey at intervals of approximately five years. As a result, we now have results of irrigation surveys for 1958, 1964, 1969, 1974, 1979, and 1984. The data from each of these surveys are included in this report. Texas Board of Water Engineers Bulletin 6018, "Irrigation in Texas in 1958," contained the data from the first survey.

Since the first survey report, four more have been published: Texas Water Commission Bulletin 6515, "Inventory of Texas Irrigation, 1958 and 1964"; Texas Water Development Board Report 127, "Inventories of Irrigation in Texas, 1958, 1964, and 1969"; Texas Water Development Board Report 196, "Inventories of Irrigation in Texas, 1958, 1964, 1969, 1974"; and Texas Department of Water Resources Report 263, "Inventories of Irrigation in Texas, 1958, 1964, 1969, 1974, and 1979."

Reliable water use data are difficult to obtain. Most of the water that is applied to irrigation is unmetered and normally unrecorded, and the amount of water applied is affected by many variables. The rainfall during the survey year influences the amount of water used and the number of acres irrigated. A wet spell or dry spell during the growing season, and the period of peak crop demand for water will affect to a degree how much water is applied by irrigation to a particular crop. The cropping patterns of an area affect the water demand. Consumptive use of water by crops is dependent upon the characteristics of the crop as related to rooting depth and rates of transpiration.

While annually collected irrigation data are desirable and needed, to date no economic means have been developed to obtain such on a statewide basis. Periodic surveys as presented in this report provide some urgently needed basic data and must suffice until other methods are available.

1984 SURVEY PROCEDURES

Survey forms and the field data gathering, recording, and computational procedures were jointly developed by the cooperating agencies. The Soil Conservation Service collected the basic data, using technical support staff to provide statewide leadership and area engineers to provide local leadership. Area conservationists and district conservationists and their staffs at the field office level, thoroughly familiar with irrigation and the land and water resources of their respective areas, did much of the detailed work. The Texas Department of Water Resources processed the maps and data sheets and compiled the report.

variable as to amounts and seasons of occurrences, and where most crop plants cannot be grown without irrigation water or where the risk without irrigation water is great.

County highway maps were used to record much of the survey information. Data recorded on the maps were subsequently used to prepare summary tabulations by river and coastal basins and zones, soil and water conservation districts, and counties.

Other data, including irrigated acreage and water use for each irrigated crop, were recorded on standardized forms on a countywide basis. The amounts of water used countywide were prorated among soil and water conservation districts, and among river and coastal basins and zones according to the proportionate acreage irrigated from a given source of water supply that was located in each area.

The Appendix presents additional details of the survey procedures; it contains the specific Soil Conservation Service instructions to its personnel for making the 1984 survey, a sample of the survey data sheets, and a sample county survey map.

Accuracy of survey data differs from county to county, according to the quantity and accuracy of records available, the degree of familiarity with the area of the assigned personnel, and the amount of field observation that could be made in making the survey. In general, Soil Conservation Service field personnel making the survey considered that their estimates were within a 5 to 10 percent range of accuracy.

PRESENTATION OF DATA

Acreage and Water Use Summary Data (Tables 1, 2, and 3)

Summary survey data are contained in Table 1 for counties, in Table 2 for river and coastal basins and zones, and in Table 3 for soil and water conservation districts. These tables each list the total irrigated acreage, the acreage irrigated by each source from which water was obtained, estimated amount of water from each source that was used, and the percentage of the combined supplies of water used that was surface water. Shown, also, is the acreage irrigated by sprinkler systems; and Table 1 additionally shows the estimated number of irrigation wells in each county considered to be operable, but not necessarily used during the given survey year. Tables 1 and 2 provide data from all six surveys; Table 3 provides data for 1984 only.

Brief discussion of individual columns of Tables 1, 2, and 3 is warranted to prevent misapplication of the data: *All Irrigation* includes the total acreage irrigated and the total acre-feet of water applied on-farm on that acreage, regardless of the amount of double cropping (if any) and regardless of the source of water used. Amounts of water applied *do not include all transmission losses* but only the amounts of ground water pumped and transmitted to irrigated fields and the amounts of surface water transmitted to fields from farm headgates (on-farm use).

Instructions for making the 1984 irrigation survey (in the Appendix) stressed that the estimated amounts of irrigation water were to reflect the amounts of ground water pumped that

were actually transmitted to irrigated fields, and the amounts of surface water that were transmitted to fields from farm headgates (on-farm use). Thus, these amounts (Tables 1, 2, and 3) include all water losses (inefficiencies) of the field irrigation systems (Figure 2), but do not include any losses sustained before conveyed water reached farm headgates. Estimates of initial surface water diversions will, in most cases, be larger than the survey estimates of on-farm use of surface water.

Surface-Water Irrigation Only includes that portion of the acreage and acre-feet of water applied for All Irrigation that was supplied from only surface-water sources, measured from the farm headgate, not the points of diversion.

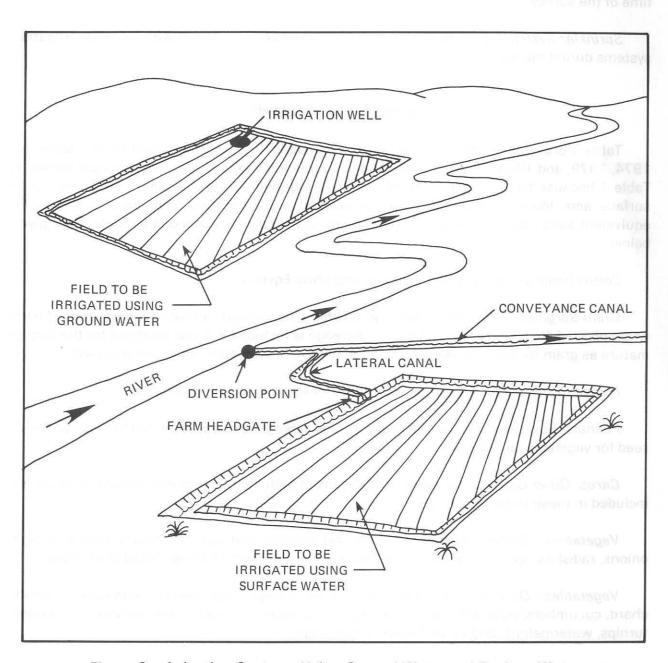


Figure 2.—Irrigation Systems Using Ground Water and Surface Water

Ground-Water Irrigation Only includes that portion of the acreage and acre-feet of water applied for All Irrigation that was supplied from only ground-water sources.

Irrigation Using Combined Supplies includes that portion of the acreage of All Irrigation where both surface and ground water were used on the same acreage or where surface and ground water irrigation was so intermingled that it was impractical to outline the areas where each was used. The part of the combined supply used that was surface water is shown as a percentage.

Irrigation Wells is the estimated total number of operable wells in the applicable area at the time of the survey.

Sprinkler Systems gives the estimated number of acres irrigated with sprinkler irrigation systems during the survey years.

Crop Data (Table 4)

Table 4 provides estimated irrigated crop acreages for each county and for the State, for 1974, 1979, and 1984. Irrigated crop acreages sometimes exceed irrigated acreages shown in Table 1 because two or more irrigated crops were grown during the same year on the same surface acre (double cropping). Skip-row planted crop acreages have been converted to equivalent solid-planted acreages. Explanations of the crop designations in Table 4 are given below:

Cotton includes all types and varieties, including Egyptian.

Grain Sorghum, Corn, Rice, Wheat, and Other Grain include all types and varieties of each when planted "to be harvested for grain." Acreage is included if it was intended for the crop to mature as grain for harvest, even though it may have been grazed during early growth.

Forage Crops includes all crops planted for forage, silage, and greenchop.

Peanuts, Soybeans, or Other Oil Crops include acreages of each harvested for nuts, beans, or seed for vegetable oil extraction.

Citrus, Other Orchard, Vineyard, and Pecans of both bearing and non-bearing acreage are included in these separate items.

Vegetables—Shallow Root includes brussel sprouts, cabbage, cauliflower, celery, lettuce, onions, radishes, spinach, strawberries, sweet corn, and other shallow-rooted truck crops.

Vegetables—Deep Root includes beans, beets (except sugar beets), cantaloupes, carrots, chard, cucumbers, eggplant, okra, peas, peppers, pumpkin, squash, sweet potatoes, tomatoes, turnips, watermelons, and other deeper-rooted crops.

Alfalfa, Other Permanent Hay and Pasture, Sugar Beets, Sugar Cane, and Irish Potatoes are the remaining specific crop categories.

An All Other Crops category is included for recording acreage of any irrigated crop not otherwise classified.

Miscellaneous Countywide Data (Table 5)

Table 5 provides countywide data from the 1984 survey only. Survey items having significance to the current status of Texas irrigation have been tabulated.

The number of miles of lined ditches and underground pipelines, and acreages served, and the number of on-farm impoundments used for irrigation, and acreages served, are shown as improved conservation measures being used by Texas irrigators.

An irrigated operating unit reflects the acreage under the control of an individual operator as being an operating unit regardless of the number or location of the parcels of land that the producer operated.

The number of acres served by sprinkler systems is shown for mobile systems and stationary systems for each county. Mobile sprinkler systems include center pivot, side roll, mobile dragline, and traveling systems. The stationary systems include solid set, dragline, and hand moved. This table also shows the number of acres served by trickle irrigation in each county.

Table 5 includes the estimated acreage that is equipped for irrigation and that was irrigated previously, but not in 1984. An adequately producing well for ground water irrigation use, or turnouts and other required facilities for surface water use, were considered minimal facilities to qualify acreage for this item.

Major Irrigation Areas (Table 6)

In Table 6, the county data in Table 1 are selectively regrouped to show the total acreage irrigated and the total water used in those counties comprising major irrigation areas of the State. The data are presented for the six survey years—1958, 1964, 1969, 1974, 1979, and 1984. Discussion of trends in the major irrigation areas is given in subsequent portions of the text.

RESULTS AND SUMMARY

General

Irrigation is practiced in many parts of Texas under various climatic conditions. In the arid, far-western part of the State, irrigation supplies almost all of the water used by crops, while in the subhumid parts of the State, a significant part of the crop water requirement is derived from rainfall in most years. To the east in the humid climatic zone, rainfall is adequate for crop production most years, but crop yields are often assured or increased with irrigation during infrequent, critical dry periods.

Water supply adequate to meet the present and future demands of irrigated agriculture is very important. Irrigation production of food and fiber crops has, to a degree, been accomplished through a partial depletion of our ground-water supplies, a situation calling for judicious use and conservation of remaining supplies.

Texas irrigation has increased from 6.7 million acres in 1958 to 7.7 million acres in 1964, to 8.2 million acres in 1969, to 8.6 million acres in 1974, and decreased to 7.8 million acres in 1979, to 6.7 million acres in 1984 (Figure 1 and Tables 1, 2, and 6). The decrease in acres irrigated in 1984 was largely due to economic conditions. Many acres were not irrigated in 1984 because of higher energy costs, declining well yields, unavailability of labor, and depressed farm prices.

Ground water (only) was used for irrigating about 80 percent of the land irrigated in 1984; 16 percent of the acreage was irrigated from surface-water (only) supplies, and 4 percent from mixed supplies of ground and surface water.

Irrigation Water Use

Crop year 1984 was a difficult year to survey because of the rainfall distribution (Figure 3). Much of western Texas went into the spring months with below normal rainfall. Rainfall and soil moisture were above average during the last part of the growing season of the 1984 crops. Heavy irrigation water application was needed for preplant and early plant development. However, from mid crop development until crop maturity less water was used in much of the area. This was beneficial to the declining ground-water supplies being used for irrigation. Those areas usually planted as dryland did fairly well this year. For instance, the average dryland cotton yield for the South High Plains was 252 pounds of lint per acre compared to 415 pounds of lint per irrigated acre.

In the area south, southwest, and west of San Antonio, dry weather plagued the farmer in early spring, delaying planting of many crops. Many irrigation wells were used to capacity all season long, which increased the demand on the ground-water supply. The Brazos River Valley and Gulf Coast Prairie areas were drier than usual.

Irrigation water use increased from 9.6 million acre-feet in 1958 to 12.5 million in 1964. From 1964, however, water use decreased somewhat despite a large gain in irrigated acreage, and in 1969 was 11.6 million acre-feet, a reduction of 0.9 million acre-feet from 1964. The total water used in 1974 on irrigated crops was 13.1 million acre-feet, a 13 percent increase since 1969 in the total water used. While 1964 was abnormally dry, 1958 and 1969 were relatively wet years (Figure 4). The winter, spring, and early summer months in 1974 were very dry although the annual rainfall was near normal. The total water used in 1979 on irrigated crops was 9.7 million acre-feet, a 26 percent decrease since 1974. The first three months and last three months of 1979 in many areas of the State were fairly dry, with about average precipitation the other six months.

The total water used in 1984 on irrigated crops was 9.3 million acre-feet, a 5 percent decrease since 1979, a reduction of 380,000 acre-feet. The year 1984 was dry overall, with a very dry spring and early summer but with very good rains beginning in late summer and fall. The first eight months in many areas of the State were very dry; the last four months had above average precipitation.

The amount of surface water used on-farm in 1984 on irrigated crops was 2.06 million acre-feet, an increase of 11 percent from that used in 1979, which was 1.85 million acre-feet. In 1974, 2.19 million acre-feet was used; in 1969, 2.35 million acre-feet; in 1964, 1.99 million acre-feet; and in 1958, 2.17 million acre-feet.

Ground-water use decreased in 1984 to 6.79 million acre-feet, which was only a decrease of 2 percent from the amount used in 1979. Ground-water use was 6.92 million acre-feet in 1979, 10.28 million acre-feet in 1974, 8.62 million acre-feet in 1969, 9.99 million acre-feet in 1964, and 6.95 million acre-feet in 1958.

The amount of water use from combined supplies of surface and ground water in 1984 was 497,000 acre-feet, 452,000 acre-feet less than in 1979. Much of this decrease in combined water use was in the High Plains, where only a small amount of playa water was used.

Water use per acre irrigated in 1984, statewide, was 1.38 acre-feet per acre; it was 1.24 acre-feet per acre in 1979, 1.52 acre-feet per acre in 1974, 1.41 acre-feet per acre in 1969, 1.62 acre-feet per acre in 1964, and 1.43 acre-feet per acre in 1958.

Irrigation wells continue to increase in number even though some of the old well casings have deteriorated and wells have been abandoned. There were 100,000 wells in 1984, 95,000 wells in 1979, 90,000 in 1974, 83,000 in 1969, 70,000 in 1964, and 55,000 in 1958. Not all of these wells were necessarily used in the survey year referenced, although all were considered operable during that year. The average acreage served per well in 1984 in the North High Plains was 183; 48 acres was served per well in the South High Plains, and 54 acres per well in the Trans-Pecos area.

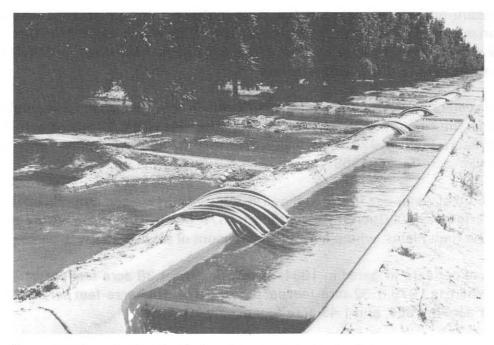
Most irrigators in the State are aware of the critical importance of their water supplies. Since total ground-water use constitutes 74 percent of the on-farm water use for irrigation in the State, the diminution of this resource is a threat to Texas' agricultural economy and will ultimately have an adverse effect on the overall economy of the State and the Nation.

The Ogallala aquifer, which furnishes most of the water for the High Plains area, is a declining ground-water supply. Over two-thirds (4.6 million acres) of the total irrigation in the State is in the High Plains area where water levels are generally declining and saturated aquifer thickness is dwindling.

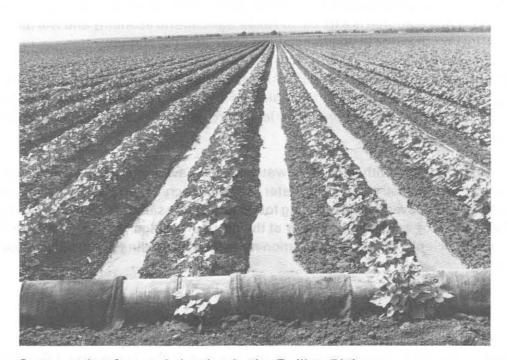
Many irrigators faced with dwindling water supply have tried to compensate by using less water per acre—in effect, stretching the water over more acres than the supply will irrigate fully. Through research, however, ways are being found to produce satisfactory levels of crop yields per acre with less water by applying the water at the particular stage of crop growth when the crop can use it most efficiently. Other conservation measures now being practiced are discussed in a later section.

Irrigated Crops

Acreage of irrigated crops decreased in the State in 1984. There was 7.0 million acres in 1958, 8.0 million acres in 1964, 8.3 million acres in 1969, and 8.8 million acres in 1974, 8.1



Pecans using the border irrigation system, in the Trans-Pecos area.



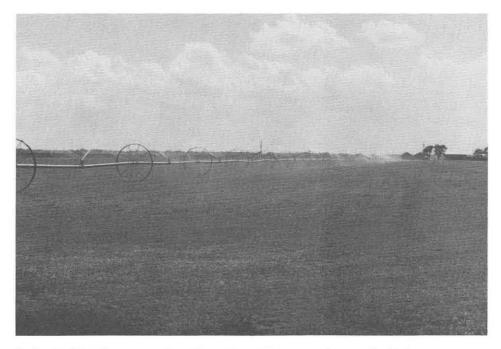
Cotton using furrow irrigation in the Rolling Plains.



Onions being irrigated by furrow systems in the Lower Rio Grande Valley.



Sugarcane provided with furrow irrigation in the Lower Rio Grande Valley.



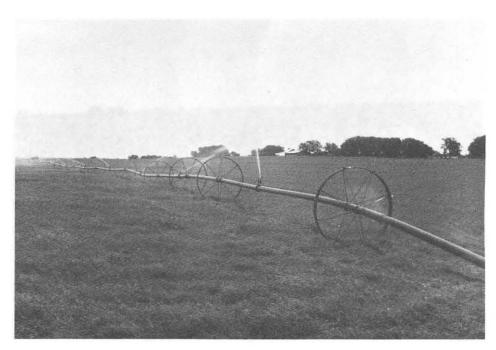
Irrigated turf grass using the side roll system in the Gulf Coast area.



Rice undergoing flood irrigation in the Gulf Coast area.



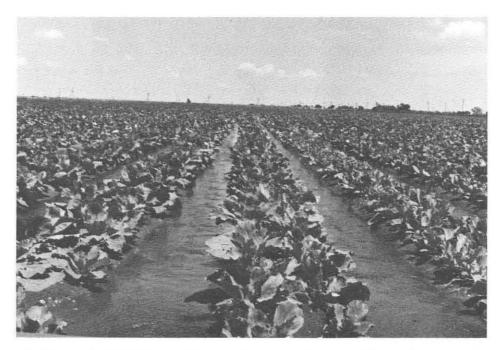
Grain sorghum being irrigated by furrows in the Lower Rio Grande Valley.



Coastal Bermuda being irrigated by sprinkler in the Cross Timbers area.



Corn being irrigated using the furrow method in the High Plains.



Cabbage being irrigated by the furrow method in the Winter Garden area.



Trickle irrigation system on pecans in the Cross Timbers area.



Side roll sprinkler system irrigating cotton in the Rolling Plains.

million acres in 1979, and 6.9 million acres in 1984 (Table 4). The difference in acreage between the acreage irrigated and the irrigated crop acreage results from double cropping—growing two or more crops on the same acre during the survey year. Double cropping was done on 153,000 acres in 1984, which was 89,000 acres less than in 1979.

The following tabulation shows that the irrigated acreage of grain sorghum has trended downward since 1969. Irrigated acreage in pasture, hay, and other feed as a group trended upward strongly through 1969, but declined by 1984 to only 9 percent of the irrigated acreage. Wheat accounts for 17 percent of the 1984 irrigated acreage.

Percentage of Total Acreage of Irrigated Crops

	1958	1964	1969	1974	1979	1984
Grain sorghum	31	32	33	28	16	15
Cotton	29	29	22	24	28	31
Pasture, hay and other						
feed	12	13	17	11	8	9
Wheat	11	11	11	14	15	17
Vegetables	7	5	4	3	3	3
Rice	6	6	7	6	7	6
Corn	2	1	3	8	12	11
All other	2	3	3	6	11	8
Total	100	100	100	100	100	100

In examining the data in Table 4, it is noted that cotton is still the leading irrigated crop in 1984. Most of the cotton acreage is located in the Southern High Plains. Many acres of grain sorghum have been replaced with cotton and corn. Irrigated cotton acreage has increased in many parts of the State, including the Lower Rio Grande Valley, High Plains, and El Paso areas. Grain sorghum was 15 percent lower in 1984 than in 1979, or 195,000 acres less, but much lower than previous survey levels. Corn had a 21 percent decrease in 1984 over 1979, or 207,000 acres less. Wheat decreased 4 percent or 49,093 acres in 1984 compared with 1979, although its percentage of total acreage increased somewhat due to relative changes in other crops; and rice acreage decreased by about 31 percent or 168,110 acres. Cotton, wheat, grain sorghum, and corn are the leading irrigated crops in 1984, in the order listed (see Table 4).

Pecans show a 48 percent increase in 1984 over 1979, or an increase of 18,000 acres. The acreage of this crop is expanding in the El Paso Valley, parts of the Winter Garden-San Antonio area, parts of the South High Plains, parts of the Edwards Plateau, Cross Timbers, and in small tracts in many other parts of the State. Trickle irrigation systems are being used in many of the new pecan orchards.

Alfalfa acreage decreased in 1984 by 49,000 acres over 1979. About 31 percent of the State's acreage of alfalfa was planted in the sandhill country of Yoakum, Bailey, Lamb, Deaf

Smith, and Gaines Counties in 1984. Alfalfa acreage in El Paso, Hudspeth, Pecos, and Reeves Counties of the Trans-Pecos was about 23 percent of the State's total in 1984. This percentage is about the same as in the 1979 survey.

Oil crops other than cotton—principally peanuts, soybeans, castorbeans, guar, flaxseed, and sunflowers—accounted for 249,000 acres in 1984. Of this total, peanuts accounted for 130,000 acres and soybeans 97,000 acres. There was 7,000 more acres of peanuts in 1984 than in 1979, and 207,000 less acres of soybeans.

Soybeans were produced with irrigation mostly on the High Plains, either as a regular rotation crop or from late seedings on land where earlier cotton plantings had been damaged by hail or other causes. In some instances, soybeans were planted following wheat where double cropping is practiced. Some of the dryland soybeans were concentrated in the more humid, eastern part of the State where dryland soybeans work very well in a rice-soybean rotation system.

Irrigated fruits are important to the economy of Texas agriculture. Grapefruit and oranges were grown on only 38,850 irrigated acres in the four Lower Rio Grande Valley counties in 1984. The December 1983 freeze had a devastating effect on the Texas citrus industry. Pruning and hedging operations began in early February 1984 and were still continuing in February 1985. The freeze inflicted severe damage on the trees. The acreage of citrus was 99,000 acres in 1979; 98,000 acres in 1974; 101,000 acres in 1969; 85,000 acres in 1964; and 69,000 acres in 1958. Peaches and apples are grown both under irrigation and dryland in many parts of the State.

Sugarcane is grown only in the Lower Rio Grande Valley of Texas. About 35,500 acres of sugarcane was irrigated in 1984 in the Valley compared to 35,000 acres in 1979. This is a reappearance of an industry of economic importance to the Valley. Sugarcane was grown in the Valley as early as 1830 when it was processed for local use, and reached a peak around 1913. Adverse markets hastened abandonment of production in the 1920's.

Grapes are a crop that has expanded in acreage in the last few years in the South High Plains and Trans-Pecos area. In 1984 there was 4,400 acres of irrigated vineyards.

Major Irrigation Areas

Figure 11 shows the approximate location of the lands irrigated in the State in 1984 and the kind of water used—ground water or surface water. In preparing Figure 11, the mixed supplies were included with the ground-water or surface-water designations according to their relative predominance. If a mixed supply was 50 percent or more surface water, it is shown as surface water on the map; if less than 50 percent, it is shown as ground water. Figure 10 shows the general outline of the major irrigation areas which are discussed below. As indicated in Table 6, these major irrigation areas account for more than 99 percent of the irrigated land in Texas in 1984.

The High Plains

The High Plains accounts for nearly 4.6 million acres or 68 percent of the total 1984 irrigated acreage in the State, and most of it is irrigated with ground water, mostly from the Ogallala aquifer. This is a declining water supply of uneven distribution. In some areas the saturated thickness of the aquifer is less than 50 feet while in other areas it is more than 300 feet. Severe diminution of the water supply occurs in the thin sections, and in some areas in the South High Plains the water is essentially depleted and cropping has been converted to dryland.

The amount of ground water used on the High Plains in 1984 was 5.0 million acre-feet, which is 73 percent of the ground water used for irrigation in the State in 1984. This is a decrease of 400,000 acre-feet from 1979, and 759,000 fewer acres was irrigated than in 1979.

During the winter months of 1984, the moisture level in the soil was low in the High Plains and most areas required a large application of preplant irrigation. Rains were timely during the growing season; therefore, total water pumped for each crop during the growing season was less than usual. Many counties surveyed showed there was less irrigation water applied due to high energy costs. However, the North Plains (above the Canadian River) experienced timely rains during the spring of 1984, which saved some on pre-irrigation, and was very dry during summer which required maximum irrigation by farmers.

In a few areas of the High Plains, playa lake water was available for irrigation in 1984, especially in Floyd and Crosby Counties. It was utilized mostly through tailwater recovery systems.

Many irrigation farmers are also timing their irrigations for optimum production and a better profit margin rather than for peak production. Of the wells in the South Plains, many were not used to their maximum capacity. A common practice among farmers in the South Plains area is to install electric powered submersible pumps into their small wells. As a means of combining weakly producing wells into one irrigation system, some farmers have installed "collector" tanks such as fiber glass tanks on their land to provide central collection of the water supply for sprinkler systems, as many wells are producing low yields and water tables are declining. Some areas that are usually irrigated with weak wells were not irrigated this year.

Due to high energy costs, especially in the North High Plains (above the Canadian River), the low efficiency furrow systems and high pressure sprinkler systems are being converted to low pressure sprinkler systems to reduce production costs. The water yields of some of the older wells in the area have decreased. This is due in part to a declining water table and partially to worn out bowls on pumps. The land served by many of these wells is being converted to dryland. If fuel costs continue to rise, more land will be converted to dryland. Crop yields in 1984 were high for most major crops such as wheat, corn, and grain sorghum.

The use of surge irrigation on furrow irrigated land and the low energy precision application (LEPA) system on sprinklers are being experimented with and are gaining in popularity. As a result of rising power costs, there is an increased effort to improve irrigation efficiency. Methods to measure soil moisture and irrigation system efficiency are being promoted and applied.

Side-roll and center-pivot sprinkler systems have replaced much of the older sprinkler equipment and helped reduce the labor costs in irrigation. The furrow methods remains the most popular methods on the "hardland soils," and sprinkler systems predominate on the "mixed" and "sandy" soils.

Water conservation is being practiced by more irrigators. The installation of underground pipelines has expanded, and this along with bench leveling, shortening the rows on furrow irrigation, installation of tailwater recovery systems, judicious use of water at critical crop growth periods, and fewer irrigations have reduced total water use, thereby conserving the precious water supply. Parallel terraces and furrow diking systems for moisture conservation are gaining in popularity as means of better utilizing the rainfall on dryland areas.

Lower Rio Grande Valley

The Lower Rio Grande Valley consists of a four-county area—Cameron, Willacy, Hidalgo, and Starr. In 1984, 731,300 acres was irrigated; in 1979, 789,400 acres; in 1974, 794,000 acres; in 1969, 808,000 acres; in 1964, 819,000 acres; and in 1958, 768,000 acres. Irrigated acreage is fairly stable because of the adjudicated water rights to the use of Rio Grande waters.

Approximately 58,000 acres of the normal irrigated area was not irrigated in the Valley in 1984. An estimated one-half of the citrus orchards were killed by the freeze in December 1983. Much of the orchard acreage was not irrigated in 1984, along with the set-aside acreages for cotton and grain sorghum. Mobile home parks, housing development, and shopping centers have also reduced the irrigated acreage in the Valley.

Most of the water used for irrigation is obtained from Falcon Reservoir on the Rio Grande. In 1984, there was 1,004,300 acre-feet of on-farm use of surface water from Falcon Reservoir, which is 97 percent of the total water used for irrigation in the Valley. Ground water accounted for only 3 percent.

The water supply for the Lower Rio Grande Valley was good in 1984, as water stored in Falcon Reservoir was adequate to supply full irrigation to crops in early summer which is the peak irrigation season. This made unnecessary any large-scale use of ground water in 1984.

North-Central Texas

The general designation of North-Central Texas, in this report, includes 26 counties in parts of the Rolling Plains, Reddish Prairies, and northern Edwards Plateau in which irrigation is concentrated in relatively small, scattered areas (Figures 10 and 11).

The use of irrigation water in this region is largely dependent upon the amount of rainfall and the availability of ground water of usable quality. Some of the surface and ground water is high in soluble salts and cannot be used for irrigation or it must be used with caution or on very salt tolerant crops. Most of the wells are shallow and weak.

In this region 173,000 acres was irrigated in 1984; 230,000 acres in 1979; 257,000 acres in 1974; 245,000 acres in 1969; 227,000 acres in 1964; and 135,000 acres in 1958. Haskell, Knox, Hall, Wilbarger, and Wichita Counties each had more than 15,000 acres of irrigated land in 1984. All other counties had less than 15,000 acres each.

The North Central Texas area was very dry during the growing season. This resulted in an increase in the amount of water applied. Increasing utility costs, declining well yields, unavailability of labor, and depressed farm prices are forcing some irrigators to revert to dryland.

Trans-Pecos

The irrigated land in the Trans-Pecos consists of a number of separated, individual areas in 12 counties.

Irrigation in El Paso and Hudspeth Counties along the Rio Grande principally uses surface water from the Rio Grande. Major storage for this water is the reservoir behind Elephant Butte Dam in New Mexico. This dam and the delivery canals and drainage ditches make up the irrigation project that was completed in 1916. All water delivery from the reservoir to farms is by gravity flow. The water supply from Elephant Butte Project into the El Paso Valley area was abundant in 1984. Very little water was pumped from wells this year in the El Paso Valley, but many wells are equipped and ready for use.

In 1984, 64,900 acres was irrigated and the amount of water used for irrigation was 214,000 acre-feet. The irrigation water contains from 0.7 to 1.3 tons of soluble salt per acre-foot, so extra water is used before planting to leach the soluble salts below the root zone in the soil.

The water used in the Valley in Hudspeth County is the Rio Grande water not used in El Paso County, plus the return flow from the irrigated land in El Paso County and sewage effluent from El Paso. The water is usually of lower quality than normal river flows and fluctuates greatly in amount. In seasons with insufficient streamflow to meet the irrigation needs of the crops, irrigators apply poor-quality water obtained from shallow wells in the alluvium.

Pecos and Reeves Counties were thriving irrigated areas until 1976-1977. However, rising fuel costs for irrigation pumping has changed that. Now there are many acres of idle cropland, empty concrete-lined irrigation canals, wells with pump motors removed, and vacant cotton gins. A different method of irrigating this area is now being tried. Some producers are switching from the graded furrow method to center pivot, low pressure systems to save on labor and energy cost. Some cotton producers are using different varieties, less fertilizer, and less water to produce less yield per acre, but at a better return for their investment.

In the Trans-Pecos farming areas the growing season started very dry, requiring heavy irrigation in the early season. Mild temperatures and effective rainfall during the rest of the growing season helped production. There was no surface water available in the Pecos Valley this year. Several large farms in the Trans-Pecos area were idle during 1984 because of economic conditions.

The total area irrigated was 163,000 acres in 1984; 210,000 acres in 1979; 225,000 acres in 1974; 255,000 acres in 1969; 357,000 acres in 1964; and 320,000 acres in 1958. A number of

areas along the Pecos River in Reeves County are no longer cultivated because of poor water quality and inadequate amounts in most years.

The ground water used in Reeves County is high in soluble salts, averaging about 4 tons per acre-foot. Heavy water applications, salt-tolerant crops such as cotton, and the moderate permeability of the soils permit the use of this water for irrigation.

The salt content of the ground water is relatively high also in the Wild Horse area in Culberson County and the Dell City area in Hudspeth County; but, the soils here are moderately permeable and high in gypsum, and maintain a low total salt and sodium content, indicating that much of the salts applied in the irrigation water have been leached out of the root zone of the soil.

The soils irrigated and the water used for irrigation are such in the Trans-Pecos area that continued monitoring of the amounts and kinds of salt in the soils and waters is needed along with soil evaluations and good soil management.

Winter Garden-San Antonio Area

The Winter Garden-San Antonio area extends from San Antonio west to Brackettville and south to Carrizo Springs, including eight counties as outlined in Figure 10. Here, the winter climate is mild and the growing season is long, permitting the growing of vegetables, corn, sorghum, and cotton and favoring double cropping.

In 1984, there was 291,611 acres irrigated; in 1979, 309,000 acres irrigated; in 1974, 322,000 acres; in 1969, 322,000 acres; in 1964, 321,000 acres; and in 1958, 215,000 acres. The amount of water used for irrigation was 564,000 acre-feet in 1984; 486,000 acre-feet in 1979; 495,000 acre-feet in 1974; 517,000 acre-feet in 1969; 549,000 acre-feet in 1964; and 271,000 acre-feet in 1959.

The Winter Garden-San Antonio area was unusually dry from January to October in 1984. Fewer acres were irrigated, but due to the strong winds and high temperature the crops that were irrigated received larger amounts of water than normal. Since rainfall throughout the area was below normal, most rivers were dry during the irrigation season, and, consequently, acreage irrigated with surface water was reduced.

Some acreages in the Winter Garden-San Antonio area are being withdrawn from irrigation due to deterioration of the wells, high labor and fuel costs, and changes in cropping systems. On the other hand, in other areas of the Winter Garden, new land is being brought into production, new wells are being drilled, and new crops planted, with the new land being brought into cultivation out of brush.

Middle Rio Grande Valley

The Middle Rio Grande Valley is an area along the Rio Grande between Falcon and Amistad Reservoirs in Maverick, Webb, and Zapata Counties and includes the Maverick Irrigation District area. The water used for irrigation is from the Rio Grande and is delivered by gravity flow. The

Maverick Irrigation District had used up it's water allocation by August 26th, and irrigation water was cut off to users. However, timely rainfall occurred during October.

There was 49,000 acres irrigated in 1984; 51,000 acres in 1979; 59,000 acres in 1974; 70,000 acres in 1969; 55,000 acres in 1964; and 46,000 acres in 1958. Most of the irrigation acreage is on the alluvial and terrace soils of the Rio Grande; however, some of the upland soils in Maverick County are irrigated from local surface or ground-water supplies. This area was very dry in 1984 from January to October. Irrigation water applications to crops were larger than normal throughout the year because of the drought.

San Angelo Area

The general designation of the San Angelo area, in this report, includes 13 counties in parts of the Rolling Plains, Reddish Prairies, and central Edwards Plateau in which irrigation is concentrated in small, scattered areas (Figures 10 and 11). The use of irrigation water in this region is largely dependent upon the amount of rainfall and the availability of ground water of usable quality. Most of the wells are shallow and weak.

Drought conditions prevailed throughout the San Angelo area in 1984. Surface water for irrigation from the Concho and Colorado Rivers was limited due to drought. There was no release of water from Twin Buttes Reservoir for irrigation in 1984. Approximately 90 percent of the farmers who normally receive an allotment from the reservoir used well water sources, while the remaining 10 percent reverted to dryland farming.

In this region, 123,000 acres was irrigated in 1984; 122,000 acres in 1979; 97,000 acres in 1974; 78,000 acres in 1969; 63,000 acres in 1964; and 34,000 acres in 1958. Tom Green, Glasscock, and Reagan Counties each had more than 25,000 acres of irrigated land in 1984.

Gulf Coast Prairie

The Gulf Coast Prairie is the rice producing area of Texas, situated in the coastal plain north and east of the Coastal Bend in an area between Victoria and Orange, Texas. In addition to rice, and along with cotton, corn, grain sorghum, and soybeans, which are not typically irrigated, many cattle are raised in this area. Much of the rice is double harvested. Surface water is principally used in the eastern part of the area and ground water in the western part.

The area of irrigation was 413,000 acres in 1984; 558,000 acres in 1979; 575,000 acres in 1974; 575,000 acres in 1969; 503,000 acres in 1964; and 464,000 acres in 1958.

Irrigated rice acreage decreased in 1984 due to the government set aside program. Rapid urbanization also reduced irrigated rice acreage approximately 50 percent in Harris and Galveston Counties. Much of the rice land that has been in the rotation schedule of 1 year rice with 2 to 3 years of native grass is going into a shorter rotation of 1 year rice and 1 year grass, soybeans, or corn—or 2 years rice and 2 years of grass, soybeans, or corn.

The rainfall was adequate in 1984 for dryland crops. The amount of double-harvested rice varied from 80 percent of the total irrigated rice acreage in Wharton County to 10 percent in

Liberty County. Double harvesting increases water usage, as additional irrigation water is required for the second growth of the rice.

West Cross Timbers

The West Cross Timbers is an area of sandy soils that has supported a scattered growth of hardwoods and tall grasses. It occurs in the North-Central part of the State between the North-Central Prairies and the Grand Prairie (see Figure 10). Peanuts, pecans, and peaches are the major irrigated crops, and irrigation became widespread in the peanut area beginning in the late 1960's.

There was 83,024 acres irrigated in 1984; 76,000 acres in 1979; 65,000 acres in 1974; 56,000 acres in 1969; 18,000 acres in 1964; and 14,000 acres in 1958.

The Cross Timbers area was extremely dry in 1984 causing the irrigation season to be longer than usual. The wells in the area are shallow and comparatively low yielding. In late summer, during stress periods, most well yields drop drastically. The acreage irrigated with surface water in 1984 was less than in previous years, due to lack of runoff into on-farm impoundments.

Brazos River Valley

The Brazos River Valley is a six-county area along the Brazos River where most of the irrigated land is on the floodplain or terrace soils adjacent to the river. Cotton is usually the principal irrigated crop; however, grain sorghum is replacing cotton on some acreage. The areas irrigated totaled 49,000 acres in 1984; 46,000 acres in 1979; 62,000 acres in 1974; 74,000 acres in 1969; 103,000 acres in 1964; and 7,000 acres in 1958.

In the Brazos River Valley the need for irrigation varies with the amount and distribution of rainfall. In 1984, rainfall was below normal during the growing season; therefore irrigation water use was above normal. Most irrigation facilities were used, and they served a few more acres in 1984 than in 1979. The 1984 federal farm program resulted in less than average acres of irrigated cotton being planted.

Some formerly irrigated land in McLennan County has succumbed to urban development and gravel pits.

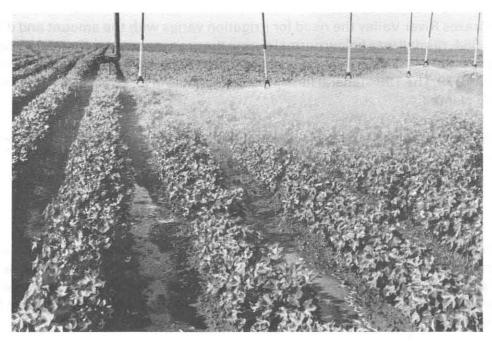
Land Resources for Irrigation

The kinds, amounts, and locations of the soils physically suitable for irrigation in Texas have been determined from completed soil surveys, conservation needs inventories, and irrigation surveys. Data from these studies show that about 38 million acres of *land* in the State is physically suitable for irrigation, although much of this acreage does not have water available for irrigation use. This 38 million acres includes the presently irrigated land.

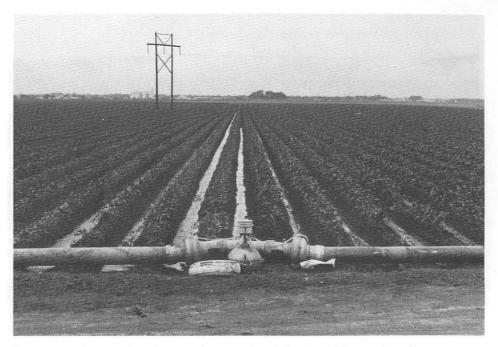
The acreage of land previously irrigated and still equipped for irrigation, but not irrigated in 1984, was obtained during the field survey (Table 5). By definition, this is land having at least an



Solid set sprinkler system irrigating alfalfa in the Rolling Plains.



Low pressure sprinkler system irrigating cotton in the Trans-Pecos.



Surge system irrigating grain sorghum in the Winter Garden.



Big Gun system irrigating coastal bermuda in the San Antonio area.

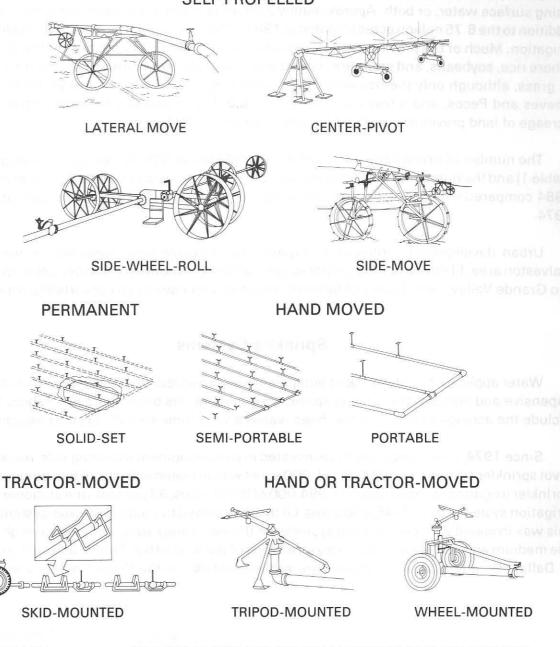


Side-roll-drag line system irrigating cotton in the Trans-Pecos.



Furrow dikes in place on cotton in the High Plains.

SELF PROPELLED



SELF PROPELLED

TRACTOR-MOVED OR SELF-PROPELLED OR WENCH





TRACTOR-MOVED

Figure 5
Sprinkler Irrigation Systems

adequately producing well for ground-water use or minimum turnouts and other facilities for using surface water, or both. Approximately 2.35 million acres was recorded in this category, in addition to the 6.75 million acres irrigated in 1984. All of this acreage is readily available for future irrigation. Much of the previously irrigated land is in the rice-producing area of the Coast Prairie where rice, soybeans, and grass are rotated with 1 or 2 years of rice and 1 or 2 years of soybeans or grass, although only the rice would be irrigated, typically. Two counties in the Trans-Pecos, Reeves and Pecos, and a few counties in the High Plains account for most of the remaining acreage of land previously irrigated but not irrigated in 1984.

The number of irrigated operating units in 1984 was 34,826. Based on the acreage irrigated (Table 1) and the number of operating units (Table 5), 194 acres was irrigated per operating unit in 1984 compared with 209 acres per operating unit in 1979 and 213 acres per operating unit in 1974.

Urban development continues to expand onto irrigable land, especially in the Houston-Galveston area, El Paso area, San Antonio area, and in the suburbs of smaller cities. In the Lower Rio Grande Valley, large blocks of formerly irrigated land have been converted to trailer parks.

Sprinkler Systems

Water application with sprinkler equipment has expanded rapidly as labor has become more expensive and less plentiful and as sprinkler equipment has been improved. Tables 1, 2, and 3 include the acreage of land that has been watered with some kind of sprinkler equipment.

Since 1974, many irrigators have invested in new equipment including side-roll and center-pivot sprinkler systems. In 1984, 2,141,000 acres was irrigated with sprinkler equipment. Mobile sprinkler irrigation systems served 1,994,000 of these acres, 93 percent, and stationery sprinkler irrigation systems served 146,500 acres. Of the area served by mobile sprinkler systems, much of this was irrigated with center-pivot systems on the very sandy soils of the South High Plains, on the medium and moderately coarse textured soils of the South High Plains, and on the sandy soils in Dallam County. Sprinkler systems are widely used also in the Cross Timbers and the Winter

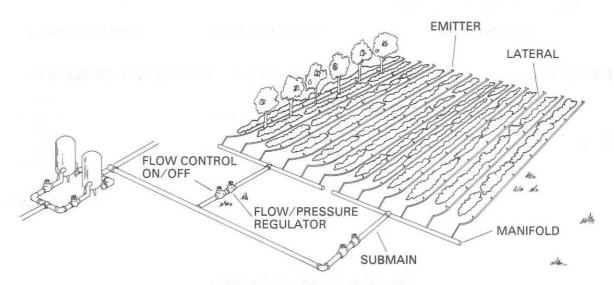


Figure 6.—Trickle Irrigation Systems

Garden-San Antonio area where the sandy soils have gently sloping and uneven surfaces. Statewide, 2,197,000 acres was irrigated with sprinkler systems in 1979; 1,854,000 acres in 1974; 1,548,000 acres in 1969; 1,077,000 acres in 1964; and 668,000 acres in 1958.

Trickle Irrigation

A somewhat recent approach to irrigation, called trickle or drip irrigation, had its origin in Israel. Its use in American irrigated agriculture is largely restricted at present to perennial crops.

Essentially, trickle irrigation spot-irrigates crops—mostly citrus, pecans, grapes, and fruit orchards currently—by applying water only to the base of each plant. The system utilizes plastic tubes that have emitters located near each plant and the emitters are designed to provide the amount of water needed for maximum plant growth.

Water is saved with this method because the total soil area is not wetted as with sprinkler or flood irrigation. Trickle irrigation applies smaller amounts of water than conventional methods, and runoff water is nearly eliminated.

Other advantages include labor savings, increased plant vigor and yields, use of low-volume wells, and better adaptation to sandy soils. Fertilizers can be applied in the irrigation water.

Some of the researchers caution that there are problems associated with trickle irrigation. The development in Israel took place on deep, very sandy soils that take water rapidly and where the soil-water-plant relationships are quite different than on most Texas irrigated soils. Emitters will clog if the irrigation water is not properly filtered; there are problems in controlling emitter output; and rodent damage may be a problem in some areas. Installation costs are high, also.

The 1984 irrigation survey shows that 29,900 acres in Texas was being irrigated with trickle systems compared to 19,800 acres in 1979 and 4,000 acres in 1974. This is an increase of almost 51 percent in 5 years, or almost 11,100 acres. Leading crops were pecans, on 20,586 acres; and citrus, 4,000 acres. Other crops irrigated with trickle systems and the acreage of each in 1984 are as follows: grapes, 2,168 acres; peaches, 1,745 acres; windbreaks, 330 acres; apples, 214 acres; Christmas trees, 175 acres; and other crops, 614 acres.

It is expected that the use of trickle irrigation will continue to increase in the future, but the increased cost of plastic pipe may slow the progress. The possible use of trickle irrigation, with its water-saving characteristics, on row crops is being researched. This would be an important development for water-short areas.

Conservation Irrigation Measures

Declining ground-water supplies, rising costs of pumping, and limited supplies of surface water are requiring that irrigation water-use efficiency be increased to the fullest extent feasible. The purposes of agricultural water conservation are to allow existing, but exhaustible, ground-water reserves to support present irrigated acreages for longer periods of time, to reduce the costs of production, and, to the extent possible, allow for an increase in irrigated agriculture to meet growing market demands for food and fiber in future decades.

Significant savings in water use can be accomplished with improvements in conveyance systems, the use of more efficient irrigation application systems, soil moisture monitoring, the development and use of drought-tolerant strains and varieties of crops, use of growth regulators, and evaporation suppressants. Along with use of water-saving equipment and plactices to reduce the quantities of irrigation water applied to crops, appropriate farming practices need to be developed and used to capture and hold rainfall in the soil profile. The capture and retention in the soil profile of rainfall, or reducing runoff from fields, applies beneficially to dryland farming operations as well as to irrigation operations. Furrow diking and conservation tillage are the leading practices currently in use to reduce rainwater runoff, along with control of weeds and brush that use water for no beneficial purposes. In order to realize these potentials, public and private agencies, institutions, and establishments need to expand water conservation research and extension programs.

Public agencies can perform a role in agricultural water conservation by disseminating information and materials on irrigation techniques and equipment that are water efficient. Agricultural water conservation work will be done to the extent that resources are available for programs of public information, training, assistance, and demonstrations to local-area soil and water conservation districts, underground water conservation districts, and farmers, and through cooperation and support of all federal, State, and local agencies with related responsibilities. It is in the private sector, however, that most of the actual investment, production, financing, and finally purchase and use of irrigation water conservation equipment must be made.

The declines in ground and surface-water supplies available for irrigation have convinced many people of the need for water conservation and good water management. In a properly planned and well managed irrigation system, all necessary equipment and control structures are installed, the quantity of water used for each irrigation is determined by the need of the crop (especially the stage of growth), and the water-holding capacity of the soil is determined. Water then is applied at a rate and in such a manner that the crops are able to use it efficiently and significant soil erosion does not occur.

The system design should make efficient use of irrigation water applied and rainfall. When planning the system, the peak use rates and seasonal and monthly demands of each crop must be considered in determining the irrigation water requirements. Research and experience have been the basis for using soil moisture balance studies to calculate irrigation water requirements. Research in recent times has provided data on when to irrigate and how much water to apply for maximum efficiency in irrigation water application. Following these findings produces maximum yields per inch of water applied or acceptable yields with much less water, acceptable meaning a yield from irrigating that has a positive net economic benefit.

Additional activity has been in the area of assisting irrigators to evaluate the efficiency of their irrigation systems. The High Plains Underground Water Conservation District No. 1, other underground water conservation districts, the U.S. Department of Agriculture, Soil Conservation Service (SCS), and local soil and water conservation districts, with assistance from the Texas Department of Water Resources, have initiated an efficiency testing program using mobile units called Field Water Conservation Laboratories. These units contain various types of measuring instruments to test irrigation systems efficiency. Based on test results, SCS personnel provide recommendations to improve the irrigation systems. This helps the irrigator use water more efficiently (less waste) and also cut down on his fuel cost.

Many irrigators are installing water-saving conveyance measures which have been accounted for in the irrigation surveys. The data for 1984 show 1,062 miles of concrete-lined ditches serving 138,000 acres of irrigated land, and 21,000 miles of underground pipelines serving 4.6 million acres of irrigated land. Seventy-one percent of 1984 irrigated land was supplied with these kinds of water conserving facilities. Most of these facilities are in the Lower Rio Grande Valley, Winter Garden-San Antonio area, and the High Plains.

Storage reservoirs are being built in water-short areas to hold water being pumped from weak wells in order to have sufficient water when needed for irrigation. In some areas playa lakes are being modified to concentrate the water in deep pools. This reduces the area exposed to surface evaporation and provides the maximum amount of water available for irrigation. Some systems are modified to pump back the runoff from row-irrigated land (tailwater) and thus conserve water through reuse. Some producers, as well as researchers, are using recharge wells to put playa lake water into the Ogallala aquifer.

There were 478 on-farm water impoundments, exclusive of playa lakes, serving 40,000 acres of irrigated land in 1984. These impoundments of surface-water supplies enable the irrigator to utilize the water when it is needed.

Furrow diking is a method of mechanically mounding soil in furrows at select intervals perpendicular to the farming direction, forming a series of micro dams and water-impounding basins. An important and primary method of improving rainfall effectiveness in crop production is to increase infiltration of rainfall on cropland, thereby storing moisture in the soil for use by plants. Furrow diking is an excellent way to accomplish this without extra modification or additional trips through the fields. The practice applies beneficially to both irrigated and dryland farming.

Several new methods of irrigating have been developed or implemented in the last ten years. Texas has the honor of being partly, in one case, and almost fully in another, the principal area of first development in two of these methods (surge flow and LEPA system).³

Surge Flow Irrigation³

Surge flow irrigation is an innovative method of furrow (and basin) irrigation that capitalizes on a natural, soil physical phenomenon. It entails irrigating with two sets of gated pipe, switching water back and forth between these sets. This shunting of water is done with a valve located at a "T" or "Y". The valve is controlled by a timer, such that one set of gated pipe is discharging the furrow streams while the other remains closed. At the predetermined interval the valve opens to allow water down the previously dry side and closes access to the gated pipe which had just had water. At the appropriate time, the switch is made again. Typical on times range from 15 minutes to an hour.

During the off period of the cycle, the water that was in the furrow infiltrates into the soil. This infiltration action creates a surface sealing effect that reduces subsequent infiltration. Reductions are on the order of 50 percent. This infiltration rate reduction helps to lower deep percolation loss at the top of fields.

³Henggeler, J. C., material from paper presented at Water for the 21st Century, Southern Methodist University, Dallas, Texas, April 1984.

Apart from its enhancement of furrow irrigation performance because of the surge flow effect, these valves are leading toward automation of furrow watering. Valves may also be used to establish cut-back irrigation (large furrow streams are used to get the water to the bottom of fields quickly, then cut back to avoid runoff) by simply opening both sides of the valve, reducing furrow streams by 50 percent. This method of irrigation is well recognized as being highly efficient.

LEPA System

The Low Energy Precision Application (LEPA) system is an irrigation concept in which an irrigation system, typically center pivot although it can be linear move, has been nozzled for lower energy application. Water is discharged right into furrows, which run in concentric circles. The furrows are also furrow diked. The idea behind the system is to eliminate as much wind-induced water loss as possible. In essence, it has some of the attributes of center pivot, furrow, and trickle irrigation. The furrow dikes keep the water in place and prevent uniformity imbalances arising from water running off higher elevations into lower areas.

Application efficiency of 99 percent is possible with a LEPA system. This high efficiency (conventional sprinkler pivots averaged only 77 percent) is also coupled with less energy use over the traditional center pivot.

REFERENCES

- Bernstein, Leon, and Francois, L. E., 1970, Comparisons of drip, furrow, and sprinkler irrigation: Soil Science, v. 115, no. 1, p. 73-86.
- Gillett, P. T., and Janca, I. G., 1965, Inventory of Texas irrigation, 1958 and 1964: Texas Water Comm. Bull. 6515.
- Goldberg, S. D., and Smueli, M., 1969, Trickle irrigation—A method for increased agricultural production under conditions of saline water and adverse soils: Proceedings 1969 International Arid Lands Conference, Tucson, Arizona.
- Harrington, E. L., 1952, A study of some factors affecting the efficient use of irrigation water in Texas: Dissertation, Texas A&M University.
- Hinton, R. J., 1886, Irrigation in the United States: U.S. Senate Misc. Doc. 15, 49th Congress, 2nd Session.
- Hughes, W. F., and Motheral, J. R., 1950, Irrigated agriculture in Texas: Texas Agricultural Experiment Station Misc. Pub. 59.
- Huston, W. F., 1898, Irrigation systems in Texas: U.S. Geol. Survey Water Supply and Irrigation Paper 13.
- Jones, D. L., and Gaines, Frank, 1941, Pump irrigation on the South Plains: Texas Agricultural Experiment Station, Progress Report 728.
- Lonsdale, J. T., 1935, Geology and ground-water resources of Atascosa and Frio Counties, Texas: U.S. Geol. Survey Water-Supply Paper 676.
- Nagle, J. C., and Fortier, Samuel, 1910, Irrigation in Texas: U.S. Dept. Agriculture, Office of Experiment Stations Bull. 222.
- Seifert, W. J., Jr., Hiler, E. A., and Howell, T. A., 1975, Trickle irrigation with water of different salinity levels: Trans. Am. Soc. Agricultural Engineers, v. 18, no. 1.
- Texas Board of Water Engineers, and other agencies, 1958, Water developments and potentialities of the State of Texas: U.S. Senate Doc. 111, 85th Congress, 2nd Session.
- Texas Water Development Board, 1971, Inventories of irrigation in Texas, 1958, 1964, and 1969: Texas Water Development Board Report 127.
- White, W. N., Broadhurst, W. L., and Lang, J. W., 1946, Ground water in the High Plains of Texas: U.S. Geol. Survey Water-Supply Paper 889-F.

Transfer of the second

- Soil See Soil See
- Con un B
- Coldoses.

- Harpilland March Territoria (1975) Piller variables opposed to all 1994 of piller inguisses and the March Te Laboratoria (1986) - March Palle (1976)

- Description of programme in the control of the control of the party of the Description of American State of the Control of the

- Make and the state of the state
- and the entropy of the contract of the contrac

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984

COUNTY			RRIGATION ARM USE)	SUF	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
ANDERS ON	1958	1,825	967	1,275	629	350	188	200	150	75	8	840
	1964	1,124	457	424	215	280	139	420	103	74	9	282
	1969	960	324	960	324	0	0	0	0	0	0	200
	1974	1,745	743	1,035	470	160	90	550	183	80	1	720
	1979	275	67	275	67	0	0	0	0	0	1	160
	1984	605	460	415	346	190	113	0	0	0	2	370
ANDREWS	1958	1,200	1,699	0	0	1,200	1,699	0	0	0	14	1,200
	1964	8,000	16,393	0	0	8,000	16,393	0	0	0	85	8,000
	1969	2,389	1,198	0	0	2,389	1,198	0	0	9.77	104	2,389
	1974	5,353	5,278	0	0	5,353	5,278	O	0		8 0	5,353
	1979	9,207	9,132	0	0	8,957	8.882	250	250		85	9,207
	1984	4,871	3,605	0	0	4,871	3.605	0	0	0	150	4,754
ANGELINA	1958	61	22	61	22	a	0	0	0		0	61
	1964	44	1 3	40	12	4	1	0	0		0	44
	1969	46	36	40	3 3	4	2	2	1		43	34
	1974	185	462	0	0	185	462	0	0	1.000	0	185
	1979	225	563	0	0	225	563	0	0	11-	0	225
	1984	225	563	0	0	225	563	0	۵	0	0	225
ARANSAS	1958	0	0	0	0	0	0	0	0		0	0
	1964	0	0	0	0	0	0	0	0		0	0
	1969	0	0	0	O	0	0	۵	0		٥	۵
	1974	0	0	0	0	0	0	0	۵		0	۵
	1979	0	0	0	0	0	0	0	0		1	0
	1984	0	0	0	0	0	0	0	0	0	0	0
ARCHER	1958	500	367	500	367	0	0	0	0	0	0	0
	1964	500	791	500	791	0	0	0	0	0	0	0
	1969	795	846	795	846	0	0	0	0	0	0	165
	1974	795	846	795	846	0	0	0	0	0	0	165
	1979	200	167	200	167	0	0	0	0	0	0	0
	1984	200	333	200	333	٥	0	0	0	0	0	0
ARMS TR ON G	1958	24,845	21,509	0	0	24,845	21,509	0	٥	0	162	430
	1964	27,825	43,782	0	0	27,825	43,782	0	0	0	195	250
	1969	25,518	33,968	0	0	25,518	33,968	0	0	0	212	300
	1974	26,348	30,308	0	D	26,348	30,308	0	0	0	219	330
	1979	24,370	12,837	0	0	24,370	12,837	0	0	0	225	1,660
	1984	11,460	7,097	0	0	11,460	7,097	0	0		200	640

- 41

COUNTY			RRIGATION ARM USE)	SUP	CE-WATER PPLIED TARM USE)		D-WATER PLIED		GATION U		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
ATASCOSA	1958 1964 1969	23,200 28,505 33,050	30,915 43,479 52,155	0 175 175	0 201 178	23,200 28,330 32,875	30,915 43,278 51,977	0	0	0	201 253 290	16.100 21.630 33.050
	1974 1979 1984	34,735 31,175 31,988	57,096 55,799 35,039	175 175 0	134 134 0	34,560 31,000 31,988	56,962 55,665 35,039	0	0	0	315 330 350	34,735 31,175 31,988
AUSTIN	1958 1964 1969 1974 1979 1984	2,958 4,292 4,697 3,663 4,050 3,015	4,055 7,004 8,236 10,246 10,017 8,754	0 199 164 0 0	0 105 107 0	2,958 3,921 4,533 3,663 4,050 3,015	4,055 6,727 8,129 10,246 10,017 8,754	172 0 0	0 172 0 0	50 0 0	23 28 33 33 33 33	450 612 750 0
BAILEY	1958 1964 1969 1974 1979	147,000 149,210 157,170 166,518 182,338 142,283	256,887 354,508 184,883 375,874 252,185 149,132	0 0 0	0 0 0	147,000 149,210 157,170 166,518 182,338 142,283	256,887 354,508 184,883 375,874 252,185 149,132	0 0 0	0 0 0 0	0 0 0	1,600 1,820 1,900 1,600 2,438 5,600	18.496 36.480 81.490 91.998 103.224
BANDERA	1958 1964 1969 1974 1979	0 315 318 127 258 213	284 321 95 532 168	226 207 79 200 152	190 237 59 432	89 111 48 58 61	94 84 36 100 61	0 0 0	0 0 0 0	0 0	0 5 10 10 10 12	282 318 127 207 150
BASTROP	1958 1964 1969 1974 1979	1,000 2,300 3,351 3,195 25 1,598	1,110 2,166 2,142 3,015 15 1,130	935 2,030 2,138 2,100 25 890	1,065 1,929 1,332 1,920 15 663	65 270 633 515 0 28	45 237 423 515 0	580 580 0 680	0 387 580 0 430	20 29 0	2 6 11 12 10 6	25 1,910 2,411 2,305 0
BAYLOR	1958 1964 1969 1974 1979	3,736 6,256 7,220 7,220 1,777 2,965	3,371 6,092 6,483 5,661 794 1,670	0 100 700 700 0 40	53 375 297 0 20	3,736 6,156 6,520 6,520 1,777 2,925	3,371 6,039 6,108 5,364 794	0 0 0 0	0 0 0 0 0	0 0	121 155 165 175 175	467 614 2,220 2,220 532 855

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY		ALL IRRIGATION (ON-FARM USE)		SURFACE-WATER SUPPLIED (ON-FARM USE)			D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
BEE	1958	1.340	772	0	0	1,340	772	0	0	0	16	70
	1964	3,503	2,406	0	0	3,503	2,406	0	0		38	1,170
	1969	4,170	2,106	0	0	4,170	2,106	0	0	0	46	393
	1974	4,479	1,611	0	0	4,479	1,611	0	0	0	48	360
	1979	575	467	0	0	5 7 5	467	0	0	0	5.5	0
	1984	3,930	1,373	25	38	3,905	1,335	0	0	0	54	40
BELL	1958	1,175	887	795	594	380	293	0	0	0	3	673
	1954	1,749	1,356	1,339	1,058	410	298	0	0		4	1,472
	1969	1,552	958	1,372	838	30	20	150	100	70	5	1,552
	1974	2,246	1,802	2,066	1,622	30	30	150	150	60	5	2,246
	1979	775	340	735	306	40	33	0	0		5	775
	1984	980	708	930	666	50	42	0	0	0	5	968
BEXAR	1958	27,100	39,195	10,500	14,845	16,600	24,350	0	0	0	102	1,600
	1964	29,961	61,771	14,700	29,371	15,261	32,400	0	0	0	133	4,603
	1969	29,229	34,534	6,573	7,053	7,521	10,311	15,135	17,170	46	135	4,823
	1974	26,462	27,652	14,218	13,953	12,244	13,699	0	0	0	140	7,639
	1979	24,051	35,250	13,521	19,418	10.530	15,832	0	0	0	133	6,119
	1984	20,104	38,815	9,565	15,266	10,499	23,449	40	100	60	133	5,478
BLANCO	1958	225	232	125	126	100	106	0	0	0	3	225
	1964	375	384	185	196	190	188	0	0		5	345
	1969	1 3 5	1 3 1	37	48	98	83	0	0	0	5	118
	1974	207	118	4 7	35	160	83	0	0		10	207
	1979	263	197	87	76	176	121	0	0		13	187
	1984	233	419	27	62	206	357	0	0	0	14)	117
BORDEN	1958	1,400	808	0	0	1,400	808	0	0	0	40	500
	1964	1,400	709	0	0	1,400	709	0	0	0	40	1,400
	1969	1,401	716	11	16	1,390	700	0	0	0	62	11
	1974	741	628	11	18	7 3 0	610	0	0		60	21
	1979	291	303	11	23	280	280	0	0		60	21
	1984	531	266	0	0	531	266	0	0	0	60	0
BOSQUE	1958	429	440	429	440	0	0	0	0	0	0	399
	1964	971	1,207	841	1,141	0	0	130	66	25	3	365
	1969	3,453	4,203	2,804	3,394	325	377	324	432	10	9	2,877
	1974	2,742	1,059	1,636	614	435	175	671	270	38	10	2,241
	1979	1,183	571	1,123	556	60	15	0	0	0	10	1.183
	1984	1,857	1,275	1,471	1,082	100	50	286	143	9	10	1,270

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

Number N	KLER EMS
1964	RES
1969	•550
1974 1,710 3,029 1,278 1,733 432 1,296 0 0 0 0 19 1979 2,282 6,496 1,842 5,526 440 970 0 0 0 20 1984 3,492 9,018 2,095 5,865 857 1,533 540 1,620 25 40 BRAZORIA 1958 51,295 167,389 43,950 146,775 4,995 12,389 2,350 8,225 21 43 1964 56,355 133,783 52,650 126,318 2,555 4,878 1,150 2,587 30 18 1969 69,560 218,068 59,170 192,303 7,940 18,211 2,450 7,554 50 30 1974 59,368 158,315 50,399 134,397 6,219 16,584 2,755 7,334 50 30 1979 67,098 141,760 56,890 123,262 4,387 6,371 5,821 12,127 60 40 1984 44,274 127,159 35,876 111,956 7,344 12,041 1,054 3,162 60 58	738 45
1979	0
1984 3,492 9,018 2,095 5,865 857 1,533 540 1,620 25 40 BRAZORIA 1958 51,295 167,389 43,950 146,775 4,995 12,389 2,350 8,225 21 43 1964 56,355 133,783 52,650 126,318 2,555 4,878 1,150 2,587 30 18 1969 69,560 218,068 59,170 192,303 7,940 18,211 2,450 7,554 50 30 1974 59,368 158,315 50,399 134,397 6,219 16,584 2,750 7,334 50 30 1979 67,098 141,760 56,890 123,262 4,387 6,371 5,821 12,127 60 40 1984 44,274 127,159 35,876 111,956 7,344 12,041 1,054 3,162 60 58	140
1964 56,355 133,783 52,650 126,318 2,555 4,878 1,150 2,587 30 18 1969 69,560 218,068 59,170 192,303 7,940 18,211 2,450 7,554 50 30 1974 59,368 158,315 50,399 134,397 6,219 16,584 2,750 7,334 50 30 1979 67,098 141,760 56,890 123,262 4,387 6,371 5,821 12,127 60 40 1984 44,274 127,159 35,876 111,956 7,344 12,041 1,054 3,162 60 58	351
1969 69,560 218,068 59,170 192,303 7,940 18,211 2,450 7,554 50 30 1974 59,368 158,315 50,399 134,397 6,219 16,584 2,750 7,334 50 30 1979 67,098 141,760 56,890 123,262 4,387 6,371 5,821 12,127 60 40 1984 44,274 127,159 35,876 111,956 7,344 12,041 1,054 3,162 60 58	0
1974 59,368 158,315 50,399 134,397 6,219 16,584 2,750 7,334 50 30 1979 67,098 141,760 56,890 123,262 4,387 6,371 5,821 12,127 60 40 1984 44,274 127,159 35,876 111,956 7,344 12,041 1,054 3,162 60 58	0
1979 67,098 141,760 56,890 123,262 4,387 6,371 5,821 12,127 60 40 1984 44,274 127,159 35,876 111,956 7,344 12,041 1,054 3,162 60 58	0
1984 44,274 127,159 35,876 111,956 7,344 12,041 1,054 3,162 60 58	0
	+630
BRAZOS 1958 17,600 15,079 5,250 4,415 11,850 10,257 500 407 50 238	.028
	.090
1964 24,830 25,730 9,140 10,001 15,590 15,696 100 33 50 295	.070
1969 20,690 17,776 1,170 1,003 8,750 7,297 10,770 9,476 71 305	.060
1974 8,700 5,908 0 0 2,800 1,975 5,900 3,933 66 300	300
1979 10,950 8,258 350 313 3,100 2,325 7,500 5,620 60 300	450
1984 9,793 9,501 340 340 2,953 2,862 6,500 6,299 25 300	0
BREWSTER 1958 234 588 234 588 0 0 0 0 0	a
1964 220 715 200 665 20 50 0 0 0 1	O
	0
1974 148 379 83 249 65 130 0 0 4	O
1979 248 627 97 316 151 311 0 0 6	0
1984 233 427 0 0 233 427 0 0 10	135
BRISCOE 1958 55,000 38,817 0 0 55,000 38,817 0 0 539	+200
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.700
25, 25, 10 75, 102 0 0 0 0 0 0	•520
1974 66,196 103,045 672 1,026 65,524 102,019 0 0 0 821 1979 65,776 95,350 252 315 65,524 95,035 0 0 0 815	, 189
	.887
	,689
BROOKS 1958 690 173 0 0 690 173 0 0 0 25	690
1964 2,270 1,675 0 0 2,270 1,675 0 0 22	.270
1969 1,970 1,025 0 0 1,970 1,025 0 0 30	,970
1974 2,619 1,632 0 0 2,619 1,632 0 0 38	.619
1979 285 123 0 0 285 123 0 0 27	285
1984 450 135 0 0 450 135 0 0 0 29	450

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	CE-WATER		D-WATER PLIED		GATION U INED SUP		IRRI- GATION	SPRINKLER SYSTEMS
				(ON -F	ARM USE)						WELLS	
										5.105.405		
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
BROWN	1958	3,696	1,384	3,696	1,384	D	0	0	0	0	0	0
30,13,20,13,15,	1964	4,997	7,247	4,997	7,247	0	0	0	0		0	60
	1969	10,466	25,887	9,739	24.855	727	1,032	0	ם	0	25	1,322
	1974	11,016	28,104	10,289	27.072	727	1,032	0	0		25	1,407
	1979	7,904	5,732	7,177	5,030	727	702	0	0		49	1,507
	1984	6,531	7,472	5,463	6,226	1,068	1,245	0	0		56	1.500
BURLESON	1958	10,460	10,447	640	640	9,820	9,807	0	0	0	222	300
	1964	18,605	19,745	2,524	3,306	16,081	16,439	ū	0	0	247	170
	1969	14,040	17,132	2,069	2,229	11,971	14,903	0	D	0	225	0
	1974	14,635	9,762	1,995	1,369	12,640	8,393	0	D	Ö	235	130
	1979	11,613	8,798	250	175	11,363	8,623	0	D	O	240	25
	1984	11,739	7,723	0	0	10,824	7,200	915	523	50	260	2 3
BURNET	1958	370	388	280	313	90	75	0	0	D	1	260
	1964	486	1,064	448	1,026	38	38	0	0	0	3	448
	1969	970	1,408	889	1,287	81	121	0	0	0	3	889
	1974	690	518	509	382	181	136	٥	0	0	5	589
	1979	81	176	0	0	81	176	0	0	D	5	50
	1984	140	291	0	0	140	291	0	0	0	8	50
CALDWELL	1958	1,105	990	850	777	255	213	0	0	0	5	700
	1964	780	681	400	347	380	334	0	0	0	10	525
	1969	382	225	206	79	176	146	0	0	0	10	206
	1974	1,755	1,660	1,620	1,563	1 3 5	97	0	0	0	10	1,675
	1979	337	262	264	213	73	49	0	0	0	10	250
	1984	646	694	373	269	1 35	149	138	276	80	9	501
CALHOUN	1958	7,947	14,739	7,427	14,479	520	260	0	0	۵	7	120
	1964	7,627	22,480	6,947	21,886	680	594	0	0	0	7	0
	1969	8,832	38,579	7,993	37,035	8 3 9	1,544	0	0		7	0
	1974	11,019	43,171	10,114	40,456	905	2,715	0	0	0	4	0
	1979	12,196	35,843	9,214	27,642	2,982	8,201	0	0		15	0
	1984	9,161	28,143	8,048	24,897	1,113	3,246	0	0	D	20	0
CALLAHAN	1958	0	0	0	0	o	0	0	0	D	0	0
	1964	319	160	160	8 1	159	79	0	0	0	12	319
	1969	1,002	1,670	465	775	537	895	0	0	D	41	1,002
	1974	1,425	1,819	685	868	740	951	0	0	0	66	1,385
	1979	1,155	698	435	266	720	432	0	0	0	74	1,155
	1984	846	519	178	105	499	313	169	101	50	85	846

INDIE 1 -- INDIENTION SOURCES + OF COUNTIES, 1954, 1954, 1954, 1979, AND LANGE CONTINUED

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUP	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
CAMERON	1958 1964 1969 1974 1979 1984	280,823 282,800 287,445 287,445 287,445 268,707	585,132 366,500 414,528 392,245 330,067 376,457	261,840 274,400 287,445 287,445 287,445 268,207	537,091 355,100 414,528 392,245 330,067 375,707	716 400 0 0	1,670 400 0	18,267 8,000 0 0	46,371 11,000 0 0	70 0 0	80 40 40 40	3 • 00 0 20 0 0 0
CAMP	1958 1964 1969 1974 1979	2 340 287 0 0	1 117 192 0 0	2 25 137 0 0	1 12 92 0 7	50 0 0 0	0 0 25 0 0	0 315 100 0 0	0 105 75 0	0 20 70 0	0 1 1 0 0	2 340 287 0 0
CARSON	1958 1964 1969 1974 1979	65,400 104,310 124,725 130,420 134,050 114,000	61,065 149,906 175,800 184,354 160,365 105,924	0 0 0 0 0	0 0 0	65,400 104,310 124,725 130,420 134,050 114,000	61.065 149,906 175,800 184.354 160.365 105,924	0 0 0	0 0 0 0	0	206 495 565 724 788 750	0 150 350 3,790 5,575
CASS	1958 1964 1969 1974 1979	29 130 100 0	16 62 50 0	29 130 100 0 0	16 62 50 0	0 0 0 0	0	0 0 0	0 0 0 0	0	0 0 0	29 130 100 0
CASTRO	1958 1964 1969 1974 1979	401,670 406,500 411,500 408,948 368,650 231,657	354,475 634,300 548,634 546,160 411,731 321,357	0 0 0	0 0 0	401,670 406,500 411,500 408,948 368,650 231,657	354,475 634,300 548,634 546,160 411,731 321,357	0 0 0	0 0 0 0	0 0 0	2,600 3,150 3,350 3,950 3,950 3,760	1,000 480 4,900 16,150 29,494
CHAMBERS	1958 1964 1969 1974 1979	39,273 45,315 51,383 50,105 53,090 32,393	117,819 113,262 128,457 125,262 106,180 113,091	36,339 45,315 51,383 50,105 53,090 32,308	109,017 113,262 128,457 125,262 106,180 112,878	0 0 0 0	0 0 0 0 0 213	2,934	8 • 802 0 0 0 0	0 0	4 0 4 4 0	0 15 0 0 0

The Time of the Control of the Contr

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUP	CE-WATER PLIED	SUP	D-WATER PLIED		GATION U INED SUP		IRRI- GATION	SPRINKLER SYSTEMS
				(ON-F	ARM USE)						WELLS	
	YEAR	ACDEC	10D5 5557							SURFACE		
	TEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SOURCE -	NUMBER	ACRES
									FEET	PERCENT		
CHEROKEE		500	153	500	150	2	_					
CHEROKEE	1958 1964	580	152	580	152	0	0	0	0		0	580
	1969	660	147	580	116	80	31	0	0		2	660
		202	121	170	87	32	34	0	0		6	109
	1974	123	70	18	3	40	13	65	54	0.000	2	118
	1984	131 274	152	66	22	0	0	65	130	100 C 100 C	1	131
	1904	214	658	185	434	24	- 8	65	217	50	5	246
CHILDRESS	1958	7,500	12,499	0	0	7,500	12,499	0	0	0	91	700
	1964	11,356	17,261	0	0	11,356	17,261	0	0		137	1,976
	1969	11,601	8,903	0	0	11,601	8,903	0	0		142	2,680
	1974	12,033	9,383	0	0	12,033	9,383	0	ō		145	3,167
	1979	11,746	9,747	0	0	11,746	9,747	0	0	0	150	5.077
	1984	10.770	10,002	0	0	10,770	10,002	0	0		130	3,755
CLAY	1958	0	0	0	0	0	0	0	0	0	0	0
	1964	155	215	20	30	1 35	185	0	0		10	155
	1969	190	330	35	70	155	260	Ö	Ö	-	8	190
	1974	345	543	175	240	170	303	ō	0		8	345
	1979	469	317	225	156	244	162	0	0		10	469
	1984	644	441	350	215	294	226	ū	0		19	594
COCHRAN	1958	65,600	108,784	0	0	65,600	108,784	0	0	0	1 200	111
	1964	88,600	125,266	0	0	88,600	125,266	0	0		1,200	46.000
	1969	84,600	65,312	0	0	84,600	65,312	0	0		1,375	61,100
	1974	104,474	85,564	Ö	0	104,474	85,564	0	0		1,543	77,400
	1979	105.195	28,095	0	0	105,195	28,095	0	0	_	1,586	94 - 806
	1984	105,512	73,917	٥	ō	105,512	73,917	0	0		1,647	104,318
COKE	1958	173	219	141	176	7.2		2				
	1964	639	931	639	931	32 D	43 0	0	0		3	0
	1969	718	1,306	555	1,128	163		0	0		2	358
	1974	497	766	477	746	20	178	0			3	323
	1979	316	554	88	132	228	20 422		0		5 7	477
	1984	310	513	0	132	310	513	0	0		7	316 75
COLEMAN	1050	200 0										
COLEMAN	1958	350	242	350	242	0	0	0	0		а	190
	1964	4 3 9	8 3 0	439	830	0	D	0	0		0	439
	1969	1,238	1,407	1,238	1,407	0	0	0	0	-	0	1.068
	1974	2,147	2,836	2,147	2,836	0	0	0	0		0	1.836
	1979	2,420	3,609	2,420	3,609	0	٥	0	0		0	2,149
	1984	2,219	2,064	2,219	2,064	٥	0	0	0		0	2,083

TABLE 1.-- IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE - PERCENT	NUMBER	ACRES
COLLIN	1958	120	40	120	40	0	0	0	0	0	0	70
	1964	230	125	230	125	0	0	0	0		0	180
	1969	135	22	135	22	D	0	0	0	0	0	55
	1974	205	47	205	47	0	0	0	0	0	0	205
	1979	0	0	0	0	0	0	0	۵	0	0	0
	1984	0	0	0	0	0	0	0	0	0	0	0
COLLINGSWORTH	1958	6,930	6,803	0	0	6,930	6,803	0	0	0	54	5,810
	1964	7,985	6,469	185	162	7,800	6,307	0	0	0	100	6,625
	1969	7,750	5,084	380	237	7,370	4,847	0	D	0	130	6 . 420
	1974	8,975	17,640	155	262	8 . 8 20	17,378	0	0	0	144	7,655
	1979	6,081	2,881	40	22	6,041	2,860	0	0		143	5,236
	1984	5,314	5,884	40	45	5,274	5,839	0	0	0	136	4,864
COLORADO	1958	37,284	111,422	28,370	84,877	8,214	24,445	700	2 + 100	54	60	700
	1964	37,485	147,647	26,276	111,800	8,792	26,936	2,417	8,911	53	86	450
	1969	42,741	175,740	28,118	125,456	14,293	49.046	330	1.238	50	115	0
	1974	47,478	178,127	28,710	114,720	13,686	45,619	5,082	17,788		95	0
	1979	45,685	154,254	27,746	97,111	13,257	41,926	4,682	15,217		105	25
	1984	36,501	134,009	24,795	95,048	10,552	35,115	1,154	3,847	20	105	25
COMAL	1958	362	287	80	72	282	215	0	0	0	5	293
	1964	200	203	175	191	25	12	0	D	0	4	125
	1969	323	149	0	0	323	149	0	0	0	6	147
	1974	319	192	4 1	20	278	172	0	0	0	6	115
	1979	422	173	18	5	404	168	0	D		11	316
	1984	523	649	115	147	408	501	0	0	0	13	397
COMANCHE	1958	1,585	1,306	580	373	1,005	933	0	0	0	32	1,525
	1964	2,595	2,407	967	1,032	1,255	840	373	535		83	2.575
	1969	20,026	19,552	6,486	6,186	11,856	11,744	1,684	1,622		1,000	19,626
	1974	21,717	18,253	8,166	6,875	12,016	10,024	1,535	1,354		1,050	21,317
	1979	34,841	22,631	18,181	10.136	15,495	11,621	1,165	874		1,100	29,218
	1984	41,086	45,005	19,740	20,856	18,790	20+954	2,556	3,195	49	1,600	32,894
CONCHO	1958	500	250	500	250	0	۵	0	0		0	70
	1964	1,355	1,931	836	1,336	519	595	0	0		15	325
	1969	1,530	1,868	1,003	1,442	527	426	0	0		13	665
	1974	1,228	740	862	481	366	259	0	0	_	13	117
	1979	906	654	433	331	473	323	0	0		22	20
	1984	2,478	2,225	830	402	1,648	1,823	0	0	0	61	728

ANDER PRODUCTION TO A CONTRACT OF THE PARTY OF THE PARTY

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

		-NO	CON-FARM USE	SUP SUP	SUPPLIED (ON-FARM USE)	SUPI	SUPPLIED	COMB	COMBINED SUPPLIE	LIES	GATION WELLS	SPRINKLER
	YEAR	ACRES	A CRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE -FEET	ACRES	ACRE- FEET	SURFACE SOURCE- PERCENT	NUMBER	ACRES
COOKE	1958		0 6	0 22.	0	0	0 :	00	0 0	0 0	0:	0 30
	1969	397	217	168	0 20		171	ם בו	2 8	2 0	7 0	147
	1974	379	169	9	81	131	55	80	33	09	12	340
	1979	384		5	09	225	09	0	0	0	7	194
	1984	240	424	20	1.7	306	193	184	215	20	6	450
CORYELL	1958	355	185	345	180	10	S	0	0	0	1	115
	1964	645	331	635	324	10	7	0			1	300
	1969	999		049	675	25	2	0	0	0	1	465
	1974	665	609	049	588	. 25	21	0	0	0	I	465
	1979	064	314	064	314	0	0	0	0	0	1	340
	1984	310	338	300	325	10	13	0	0	0	2	150
COTTLE	1958	11,973	18,385	0	0	11,973	8,38	0	0	0	2	
	1964	13,250	13,688	0	0		.68	0	0	0	S	
	1969	5,450	5,463	D	0	5,450	3	0	0	0	130	2
	1974	6,800	4,683	0	0		.68	0	0	0	m	
	1979	1,455	1,298	0	0		\$24	0	0	0	M	
	1984	1,712	1,913	20	S		, 75	09	150	10	M	1,373
CRANE	1958	0	0		0	0	0					
	1964	0	0	0	0			0 0) =) =		
	1969	0	0	0	0	0			0 0	0 0	0 0	
	1974	0	0	0	0			0	0	0	0	
	1979	0	0	0	0	0		0	0	0	0	
	1984	115	0.6	0	0	115		0	0	0	20	111
CROCKE 11	1958	805	1,964	0	0	765	1,839	0 4	125	50	6	d
	1964	1,320	3,197	0	0		3.197	0	0	0	16	
	1969	1,718	3,167	0	0	1,718	3,167	0	0	0	19	1.439
	1974	906	2,090	0	0	906	2,090	0	0	0	20	
	16	606	1,305	0	0	606	1,305	0	0	0	22	606
	1984	450	338	0	0	450	338	0	0	0	80	450
CROSBY	1958	2 00 , 00 0	139,148	0	0	200,000	6	0	0	0	1,551	5 .000
	1961	168,400	188,448		0	168,400	8 * 44	0	0	0	2,050	2,120
	1969	167,350	215,809	160	170	165,990	,10	,20	,53	10	2,082	3,145
	1979	164,855	252 * 800		13	163,315	0,81	1,52	1,97	20	2,105	2
	1979	52,800	43,088	0 0	0	2,072	2	50,728	-	55	2.124	10,160
	1 40 4	1 28 4 6 1 8	2,11	0	0	142,944	. 64	2,67	946	20	2.042	

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

C OU NT Y			RRIGATION ARM USE)		ACE-WATER		D-WATER PLIED		GATION U		IRRI- GATION	SPRINKLER SYSTEMS
					ARM USE	7.7.	1.174	00.10			WELLS	31312113
							1.0					
										SURFACE		
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SOURCE -	NUMBER	ACRES
									FEET	PERCENT		40,100
									,	LUCENT		
CULBERSON	1958	9,905	29,176	0	0	9,905	29,176	0	0	0	86	150
	1964	10.480	24,512	o	Ö	10,480	24.512	a	0		124	400
	1969	8,974	31,861	o o	0	8,974	31,861	o	0		110	400
	1974	8,429	28,935	0	0	8,429	28,935	0	0		122	560
	1979	21.105	46.885	Ö	0	21,105	46,885	0	٥			
	1984	9,819	20,051	0	0	9,819		0			182	13,619
	1704	7,017	20,031	U	U	9,819	20,051	u	0	U	175	3,069
DALLAM	1958	42,225	49,874	O	0	42.225	49.874	0	0	0	271	660
	1964	76,970	120,083	0	0	76,970	120,083	n	o		342	9.620
	1969	128,600	160,985	0	0	128,600	160,985	o	0	27.52	712	49,902
	1974	155,905	243,520	0	0	155,905	243,520	0	٥		900	93,120
	1979	220,515	323,345	0	0	220,515	323,345	0	٥		1,200	148.950
	1984	213,375	285,751	0	0	213,375	285.751	0	0		1.200	188,502
		,	2034131	U		5124212	2034731	u	u	U	1 +200	100 + 302
DALLAS	1958	1,765	977	1,765	977	0	0	0	0	0	0	1.365
	1964	1,495	563	1,045	412	0	0	450	151		2	1,045
	1969	240	240	165	157	75	83	0	0		6	75
	1974	265	248	120	118	145	130	0	0		8	195
	1979	0	- 0	0	0	0	0	Ö	0		6	0
	1984	80	115	40	55	40	60	0	Ö		6	20
								·-				
DAWSON	1958	70,000	105,116	0	0	70,000	105.116	0	0	. 0	570	70.000
	1964	100,000	148,783	0	0	100,000	148,783	0	0		1,400	99.500
	1969	74,570	42,192	. 30	23	74,540	42,169	0	0		1.500	74.010
	1974	52,020	31,245	0	0	52,020	31.245	0	ū		1,520	52.020
	1979	56,700	9,700	0	O	56,700	9,700	0	ū		1.540	56.700
	1984	32,390	21,362	0	0	32,390	21,362	0	Ö	-	1.600	32,390
		and the second						177			.,	52,576
DEAF SMITH	1958	282,660	407,293	0	0	282,660	407,293	0	0	0	2 + 300	0
	1964	304,400	469,145	0	0	304.400	469.145	0	0		2,300	300
	1969	275,100	481,525	o	o o	275,100	481,525	Ö	0		2.800	200
	1974	310,000	514,799	0	0	310,000	514,799	Ö	0		3.522	4.400
	1979	294,500	315,706	0	Ö	294,500	315,706	0	0		3,722	18.750
	1984	285,530	297,892	0	0	285.530	297.892	0	0		3,609	15,240
	. , ,	203,330	2779072	· ·	u	203,330	271,072	U	U	U	3,609	15,240
DELTA	1958	0	0	0	0	0	0	0	0	0	0	0
	1964	0	0	0	0	0	0	0	0		0	o o
	1969	0	. 0	0	0	0	0	0	0		0	Ö
	1974	0	0	0	0	0	0	0	0		Ö	0
	1979	0	0	0	0	0	0	0	0		0	ő
	1984	1,300	3,900	1.300	3,900	0	0	0	0		0	0
		12 7/11 2 200	Alex Char	.,	37.30	J.			Table Tolk	U		

TABLE IN A THE TOTAL OF THE WAY IN THE TRUE THE TRUE THE TABLE THE TABLE THE TABLE THE TABLE THE TRUE THE TRUE

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)		CE-WATER		D-WATER PLIED		GATION U INED SUP		IRRI- GATION	SPRINKLER SYSTEMS
				(ON-F	ARM USE)					SMICHTON	WELLS	
	YEAR	ACRES	ACRE-FEET	4.605.6	****					SURFACE		
	CLAR	ACKES	ACKE-FEE!	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SOURCE -	NUMBER	ACRES
									FEET	PERCENT		
DENTON	1958	2,165	1,325	2,165	1,325	D	٥	0	0	0	0	1,165
	1964	390	290	390	290	Ö	0	0	0		0	390
	1969	410	179	310	121	100	58	0	0	3 3370	1	410
	1974	360	154	30	8	330	146	Ö	0		6	360
	1979	470	208	30	8	440	201	0	0	9 9 7	10	470
	1984	570	502	0	0	570	502	0	0	1000	11	570
DEWITT	1958	770	1 005	7 10 0								
DEWIII	1964	770 1,996	1,005 1,953	340	446	430	559	0	0		13	480
	1969	891	789	181 157	220	1,787	1,710	28	23		28	1,738
	1974	1,256	987	157	225 166	734 1,099	564	0	0	_	25	839
	1979	440	147	60	20	380	821 127	0	0		30	1,204
	1984	445	148	60	20	385	128	0	0		30	440
	1,0,		140	60	20	365	128	U	0	U	33	250
DICKENS	1958	10,504	10,504	0	0	10,504	10,504	D	0	0	453	420
	1964	11,994	11,994	0	0	11,994	11,994	0	0	0	472	1,925
	1969	19,047	16,916	410	385	18,337	16,281	300	250	40	550	7,390
	1974	19,137	15,288	320	267	18,817	15,021	0	0	0	550	4,240
	1979	12,957	3,279	420	112	12,537	3,167	0	٥	0	550	7,220
	1984	9,472	5,816	1,123	468	7,859	5,058	490	290	60	184	4,746
DIMMIT	1958	21,100	26,213	0	0	3,95D	18,303	7,150	7,910	50	362	433
	1964	19,718	28,241	0	0	12,085	14,873	7,633	13,368		382	790
	1969	28,289	34,862	1,002	1,440	18,423	20,785	8,864	12,637		65	728
	1974	23,576	33,522	315	394	14.744	18,781	8,517	14.347		65	2,292
	1979	14,093	21,558	6,021	9,029	5,722	9,078	2,350	3,451		104	698
	1984	11,169	18,873	1,250	617	6,696	12,472	3,223	5.785		104	1.038
DONLEY	1958	3,460	2,156	0	O	3,460	2,156	0	D	D	20	2 110
	1964	12,600	21,187	٥	0	12,600	21,187	a	0		20 150	2,110
	1969	16,679	11,786	0	0	16,679	11,786	a	0		235	10.617
	1974	18,663	26,020	0	0	18,663	26,020	0	0	100	244	11,992
	1979	17,128	8,379	0	0	17,128	8,379	0	0		170	11.166
	1984	11,795	6,715	0	0	11,795	6,715	0	0		160	7,886
DUVAL	1050	705	2202 401	- 1		10.0						
DOVAL	1958 1964	305 1,014	142 958	0	0	305	142	0	0		4	305
	1969	4,111		0	0	1,014	958	0	0		7	1.014
	1974	3,845	2,369	20	0	4.091	2,359	0	A CHE O		32	4,111
	1979	4,752	2,208	0	0	3,845	2,909	0	0		3 3	3,845
	1984	2,755	2,517		THE DEED O	4,752 2,755	2,208	0	0		51	4,432
			TOP Die		of IEO	Transfer Control of the Control	2,517		INED SUF	A	51	2,755

IABLE 1. - LEGISLION SURMARY FOR COUNTIES, ISSN., 1959, 1979, 1979, AND 1958 - CONTINUED

TABLE 1 .-- IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

C CUNT Y			RRIGATION ARM USE)	SUF	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
EASTLAND	1958 1964 1969 1974 1979	265 978 10,045 10,386 12,051	163 831 10,007 10,459 13,088	31 218 1,240 1,330 1,905	16 97 1,308 1,403 2,096	234 700 6,927 7,178 8,130	147 709 6.838 7.178 8.808	0 60 1,878 1,878 2,016	0 25 1,861 1,878 2,184	10 40 39 38	13 33 600 650 665	265 978 10,045 10,386 12,051
ECTOR	1984 1958 1964 1969 1974 1979	0 2,200 4,100 2,980 3,280 2,367	11,939 0 5,712 3,708 3,607 3,693 5,527	1,765	0 0 0	8,158 2,200 3,500 2,640 2,910 1,757	8,158 0 5,712 2,716 3,308 3,374 3,448	2,016 0 600 340 370 610	2,016 0 992 299 319 2,079	90 90 90	685 200 300 500 600 650	2,200 4,100 2,980 3,280 1,723
EDWARDS	1958 1964 1969 1974 1979	277 325 310 375 325 53	210 326 248 315 282	277 325 310 225 175 53	210 326 248 207 173 177	150 150	108 108	0 0 0	0 0	0 0 0	0 0 3 3	277 315 265 275 225 53
ELLIS	1 95 8 1 96 4 1 96 9 1 97 4 1 97 9 1 98 4	270 0 58 0 0	136 0 28 0 0	235 0 58 0 0	118 0 28 0	35 0 0 0	18 0 0 0	0 0 0	0 0 0 0	0 0 0	1 1 5 5 5	35 0 58 0 0
EL PASO	1958 1964 1969 1974 1979	55,551 55,000 57,919 56,375 53,810 47,526	193,002 140,681 206,014 179,310 165,075 159,709	0 0 0 0 0 0	0 0 0	976 1,600 1,193 1,180 510 215	4.681 4.828 4.685 4.055 1.760 833	54,575 53,400 56,726 55,195 53,300 47,311	188,321 135,853 201,329 175,255 163,315 158,876	*95 15 99 99 99	547 550 593 601 590 590	0 10 300 448 90 40
ERATH	1958 1964 1969 1974 1979	1,984 3,174 6,453 12,524 12,524 14,095	2,293 2,908 6,831 12,861 11,987 12,534	576 1,077 1,680 2,846 2,782 2,552	538 1,145 1,971 2,340 2,738 1,485	1,408 1,879 4,295 8,457 8,497 10,270	1.755 1.542 4.346 9.509 8.067 9.983	0 218 478 1,221 1,245 1,273	0 221 514 1,012 1,182 1,066	0 29 61 49 48	45 46 221 218 218 285	1.962 3.174 6.453 12.509 12.509 13.758

and the leader that the control and the first have been been failed an inter-Emeridance

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUP	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE - PERCENT	NUMBER	ACRES
FALLS	1958	5,525	0 570		020	7 005	7 100	5.70		0.5		
TALLS	1964	6,413	4,574 8,250	1,000	929 1,312	3,995 4,173	3,198	530	447		100	995
	1969	7,606	6,906	2,465	2,144	5,141	6.278 4.762	530	660		108	1,170 3,006
	1974	7,606	6,970	2,465	2,129	5,141	4,841	0	0	S 0.77	107	3,006
	1979	3,946	2,649	0	0	3,946	2,649	0	0	127	104	496
	1984	6,635	6,947	2,010	2.247	4,625	4,700	0	٥		110	860
		0,000		2,010	24241	4,023	4,700	U	U	u	110	860
FANNIN	1958	1,445	961	1,295	860	90	61	60	40	50	7	1,295
	1964	1,780	1,638	1,070	1,093	390	311	320	234		14	1,680
	1969	1,245	811	812	559	220	110	213	142		10	1,023
	1974	935	335	470	172	270	98	195	65		12	735
	1979	3,148	787	3,148	787	0	0	0	0	0	18	3,148
	1984	4,478	3,113	3,336	2,372	1,142	740	0	0	0	20	3,648
FAYETTE	1958	1,180	2,980	980	2 705	150	200				115	500
2 83.2.13.2	1964	1,716	1,910	1,261	2,705 1,315	150 365	208 430	50 90	67		6	580
	1969	1,613	1,281	1,166	900	230	205	217	165 176		12	1,433
	1974	615	301	298	139	172	90	145	72		21 25	1,477
	1979	2,229	925	1,075	398	1,009	455	145	73		28	2.084
	1984	1,309	457	993	331	221	111	95	16		25	1,136
												2016-2
FISHER	1958	2,350	1,958	0	0	2.350	1.958	0	0	0	76	0
	1964	4,140	7,777	0	0	4,140	7,777	0	0	0	144	3,640
	1969	3,080	2,675	795	552	2,070	1,825	215	298	54	160	1,330
	1974	3,305	2,762	815	384	1,880	1,851	610	527		170	1.370
	1979	2,715	2,519	240	167	1,865	1,826	610	527		170	1,330
	1984	1,333	1,977	30	50	1,128	1,813	175	113	90	190	1,150
FLOYD	1958	300,250	188,592	0	0	300,250	188,592	0	0	0	2,500	٥
	1964	321,910	256,026	0	o	321,910	256,026	0	0		3,500	320
	1969	315,000	317,646	0	0	315,000	317,646	0	o	3 37	3,950	350
	1974	306,320	287,400	0	ő	306,320	287,400	o	0		4,100	900
	1979	277,295	176,968	0	0	277,295	176,968	0	0	1.5	4.394	4.002
	1984	207,600	184,504	0	0	188,400	174,904	19,200	9,600		4,500	3,255
50400	1.65	127 (E-2000)	22 1763027									
FOARD	1958	1,581	2,685	0	0	1,581	2,685	С	0		66	1,581
	1964	2,089	2,160	O	0	2,089	2,160	0	0		88	2.089
	1969	2,300	2,687	0	0	2,300	2,687	. 0	0		95	2,300
	1974	2,980	3,533	0	0	2,980	3,533	0	۵		52	2,980
	1979	4,820	5,300	0	0	4,820	5,300	0	0		8 4	4 .820
	1984	4,220	4,080	0	ARK HILL O	4,220	4,080	0	0	1.75	84	4.220

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	PPLIED FARM USE)		D-WATER PLIED		GATION US		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
FORT BEND	1958 1964 1969 1974 1979	27,362 26,713 33,540 27,150 26,627 25,201	65,193 51,075 85,869 68,491 55,254 86,108	7,022 7,483 8,800 7,650 6,856 6,987	20,249 16,910 24,483 21,908 17,140 29,622	19,140 18,030 24,740 19,500 19,771 18,214	44.194 33.148 61.386 46.583 38.114 56.487	1,200 1,200 0 0	750 1,017 0 0 0	60 60 0 0	74 79 110 120 120 130	600 100 450 450 1.070 1.775
FRANKL IN	1958 1964 1969 1974 1979 1984	40 0 35 0 250	20 9 0 63	40 0 20 0 250 0	20 0 7 0 63	0 0 15 0	0 2 0 0	0 0 0 0	0 0 0 0 0 0 0	0 0 0	0 0 1 1 0	40 0 35 0 0
FREESTONE	1958 1964 1969 1974 1979	0 0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0	0 0 0	0 0	0 0 0 0	0	0 0 0
FRIO	1958 1964 1969 1974 1979	24,200 44,595 54,474 61,484 68,404 60,285	30,373 56,300 74,327 72,794 76,685 90,007	0 40 40 40	0 27 27 27 453	24,200 44,595 54,434 61,444 67,589 58,970	30,373 56,300 74,300 72,767 75,583 88,051	0 0 0 775 975	0 0 0 1,075 1,503	0 0 0 0 60	135 217 280 295 305 305	18,650 35,977 43,864 53,394 60,234 53,165
GAINES	1958 1964 1969 1974 1979	108,000 225,000 319,920 350,500 359,670 261,920	153,467 285,084 146,885 310,826 413,032 282,872	0 0 0	0 0 0	108,000 225,000 319,820 350,500 359,670 261,920	153,467 285,084 146,835 310,826 413,032 282,872	0 0 100 0 0	0 0 50 0 0	0 0 50 0 0	900 1,600 2,300 2,850 3,300 2,905	101,000 205,000 313,920 350,500 359,670 261,920
GALVESTON	1958 1964 1969 1974 1979	10,850 12,200 6,571 6,850 11,143 5,337	37,975 29,848 19,762 17,508 24,009 18,335	10,850 11,990 6,121 6,500 11,073 5,207	37,975 29,735 19,383 17,333 23,992 18,225	210 450 350 70 130	113 379 175 18	0 0 0 0 0	0 0 0 0 0	0 0 0 0	2 5 6 2 2 5	150 0 0 0

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	CE-WATER PPLIED		D-WATER Plied		GATION U		IRRI- GATION	SPRINKLER SYSTEMS
				CON-F	ARM USE)						WELLS	
			10001200							SURFACE		
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES		SOURCE -	NUMBER	ACRES
									FEET	PERCENT		
GARZA	1958	14,000	15,000	0	0	14,000	15,000	0	0	D	5 4 0	
511111500	1964	14,843	18,014	0	0	14,843	18,014	0			540	0
	1969	15,513	16,484	90	94	15,423				_	580	100
	1974	12,000	15,667	0	0	12,000	16,390	0	0		300	784
	1979	11,900	11,894	0	0	11,900	15,667		-		275	580
	1984	6,105	5,125	0	0	6,105	5,125	0	0		600	480
	1704	0,105	3,123	u	U	6,105	5,125	0	U	u	600	340
GILLESPIE	1958	1,500	1,500	1,150	1,150	350	350	0	0	0	9	1,500
	1964	1,544	1,812	1.064	1,216	480	596	0	0		19	1.544
	1969	1,360	1,359	1,002	1,019	358	340	0	0	(57)	20	1.360
	1974	1,721	832	981	- 461	740	371	0	n	1777	30	1.721
	1979	1 + 176	1,434	356	529	820	904	0	ō		3.6	70/
	1984	1,201	2,039	175	153	1.026	1,887	o o	ū		(40	16 700
						11111						by invontory
GLASSC OCK	1958	10,800	11,597	0	0	10,800	11.597	0	0	0	94	1.850
	1964	17,540	24,577	0	ū	17,540	24.577	0	ū		327	3.047
	1969	23,139	34,185	0	0	23,139	34,185	0	o	1000	468	4.159
	1974	28,186	55,103	0	0	28,186	55,103	0	o o		873	4.793
	1979	33,614	38,956	0	0	33,614	38,956	o	o o		950	1,834
	1984	31,854	41,647	0	0	31,854	41,647	0	0		1,150	1,961
GOLIAD	1958	1.810	4.5.1		112	105	366	0		1 - 1 -		
OULTAD	1964	3,408	451	1,365	342	315	80	130	29	- 0	5	767
	1969	2,695	2,905	2,125	1.826	1,043	873	240	206		7	1.808
	1974	2,031	1,276 955	2,153 1,552	1,076	542	200	0	0		9	542
	1979	2,031			776	479	179	0	0		9	379
	1984	992	0	0	0	0	0	0	0		9	0
	1764	772	327	912	304	80	23	0	0	0	3	430
GONZALES	1958	2,489	2,379	2,107	2.103	382	276	0	0	0	7	1,912
	1964	2,378	2,588	1,090	1,196	1,288	1,392	0	0	200	19	1.833
	1969	2,839	2,623	1.145	972	1,683	1,641	11	10	the second	25	2,328
	1974	2,330	2,107	560	527	1,720	1.538	50	42	1000000	35	2.150
	1979	2,060	645	660	187	1,350	442	50	17		37	1,880
	1984	2,395	1,636	860	498	1,405	1,008	130	130		45	2,265
CDAY	105	0 005										
GRAY	1958	8,880	8,356	0	0	8,880	8,356	0	0		49	620
	1964	16,790	22,869	0	0	16,010	21,654	780	1,215		119	1,630
	1969	29,252	39,190	0	0	29,252	39,190	0	V.C.3 0		198	3,116
	1974	33,559	45,719	0	0	33,559	45.719	0	0	The second secon	222	3,454
	1979	31,683	27,546	0	0	31,683	27,546	0	0		226	7,164
	1984	18,423	16,293	0	P 4 4 7 7 7 0	18,423	16,293	0	0		220	4,322
							1110					SYSTEMS

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	CE-WATER PPLIED ARM USE)		D-WATER PLIED		GATION U		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
GRAYSON	1050					100	100					
GRATSUN	1958	0	0	0	0	0	0	0	0	0	0	0
	1964 1969	727 749	482 580	345	234	382	248	0	0	0	10	727
	1974	1,973	1.741	176 709	137	365	279	208	164	75	21	616
	1979	2,427	1,149	560	63D 227	1.056	938	208	173	75	24	1.973
	1984	2,232	1,570			1,476	727	391	196	50	26	2.377
	1704	2,232	1,570	524	319	1,589	1,166	119	85	42	29	2,032
GREGG	1958	D	0	0	0	0	0	0	0	0	0	0
	1964	10	7	10	7	0	0	0	0	0	0	10
	1969	10	3	10	3	0	0	0	0	٥	0	10
	1974	. 0	0	0	Ó	0	0	0	0	Ö	0	0
	1979	0	0	0	0	0	0	0	0	0	۵	0
	1984	D	0	0	0	0	0	Ö	0	Ö	ő	o
				100								
GRIMES	1958	774	740	375	375	399	365	0	0	0	5	449
	1964	1,219	855	804	594	415	261	0	0	ō	6	819
	1969	1,325	1.012	775	612	550	400	ō	0	0	8	625
	1974	220	115	0	0	220	115	0	ō	o	28	220
	1979	580	145	0	0	580	145	0	0	D	28	580
	1984	624	479	0	0	624	479	0	0	0	8	620
GUADAL UPE	1958	2.049	2,142	868	75 n	1,181	1.392	0	0	0	24	1.351
	1964	2,336	2,237	910	818	1.426	1.419	0	0	0	33	1.827
	1969	2,359	1,796	1.042	825	1,317	971	o o	0	1,000	41	1.864
	1974	3,599	2,725	2,187	1,645	1,412	1,080	0	ō	Ö	50	3.039
	1979	4,302	2,343	2,393	1.013	1.909	1,330	0	0	0	53	3,531
	1984	5,728	7,443	2,520	3,487	3,208	3,956	0	0	0	35	5,080
30.555												
HALE	1958	5 33,455	575,752	0	0	533,455	575,752	0	0	0	4.500	1.490
	1964	461,800	1,105,616	۵	0	461,800	1,105,616	0	0	0	4,378	8,000
	1969	352,520	680,167	٥	0	352,520	680,167	0	0	0	4,400	13,000
	1974	431,495	826,357	0	0	430,595	824,614	900	1,743	20	4,600	18,000
	1979	386,891	356,949	0	0	0	0	386,891	356,949	25	4,463	28,000
	1984	354,900	526,631	0	0	354,000	525.273	900	1.358	20	4.700	51,500
HALL	1958	8,827	12,079	0	0	8,827	12,079	0	0	0	120	8,177
	1964	19,729	26,647	ū	0	19.729	26.647	0	0	0	187	19,029
	1969	22,271	23,171	0	0	22,271	23,171	0	0	0	212	21,611
	1974	28,018	25,213	0	0	28,018	25,213	0	0	0	235	27,238
	1979	23,401	17,712	0	0	23,401	17,712	0	0	0	235	23.191
	1984	17,094	12,324	0	0	17,094	12,324	0	0	0	239	16,450
		1011-1					er et	1716			Cealur	10,450
					4911							

The Control of the Co

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USEJ	SUF	CE-WATER		D-WATER PLIED		GATION U INED SUP		IRRI- GATION	SPRINKLER SYSTEMS
				(ON-F	ARM USE)						WELLS	
	WE . D					0.250 (2.50	and and a later			SURFACE		
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SOURCE -	NUMBER	ACRES
									FEET	PERCENT		
		0.00	100202	1977/79	//c/2020	V72504						
HAMILTON	1958	900	485	545	293	20	9	335	183		9	735
	1964	1,705	693	415	168	0	0	1,290	525	71	14	1,255
	1969	1,925	1,882	1,390	1,380	265	247	270	255	56	20	1,720
	1974	2,775	1,710	2,140	1,303	365	229	270	178	56	20	2.570
	1979	550	290	270	150	190	95	90	45	50	15	550
	1984	1,266	2,302	480	880	590	769	196	653	50	20	1.051
HANSFORD	1958	69,150	80,717	0	0	69,150	80,717	0	0	0	231	0
	1964	164,000	197,062	0	0	164,000	197,062	0	0	0	652	400
	1969	2 39 , 450	357,867	0	0	239,450	357,867	0	0	0	1.000	1,280
	1974	252,450	409,471	0	0	251,810	408,831	640	640	20	1,160	1.320
	1979	251,750	390,678	0	0	251,110	390,038	640	640		1,150	4.776
	1984	148,306	252,284	0	0	148,306	252,284	٥	0	0	1,200	7,880
HARDEMAN	1958	10,000	12,000	0	0	10,000	12,000	0	0	0	300	750
	1964	15,110	22,932	0	0	15,110	22,932	0	0	0	280	1,290
	1969	15,150	20,158	130	238	15,020	19,920	0	D		285	3.340
	1974	15,200	17,411	130	173	15,070	17.238	0	o		286	3,440
	1979	4,380	1,418	180	60	4,200	1,358	0	0		295	890
	1984	6,671	6,592	120	170	6,551	6,422	0	0		295	1,505
HARDIN	1958	1,300	2,167	0	0	1,300	2,167	0	0	0	15	0
	1964	1.218	2,436	0	0	1,218	2,436	0	0		6	0
	1969	2,360	4,720	0	0	2,360	4,720	0	0		18	Ö
	1974	2,473	5,770	0	0	2,473	5,770	0	٥		20	ō
	1979	1,731	3,174	0	0	1,731	3,174	0	0		23	o o
	1984	4 3 0	1,141	٥	0	4 30	1,141	0	0		14	15
HARRIS	1958	35,350	103,633	4,000	12,000	31,350	91,633	О	0	0	320	150
	1964	38,050	85,410	3,650	9.065	34,400	76.345	0	0		336	130
	1969	36,619	121,527	4,339	14,824	32,280	106,703	0	0		200	448
	1974	31,932	90,941	2,800	8,400	29,132	82,541	0	0		190	0
	1979	22.844	49.933	1.977	4,943	18,953	40,525	1.914	4.466		140	405
	1984	16,375	33,484	585	1.755	15,790	31,729	0	0		184	2,000
HARRISON	1958	65	21	5	1	60	20	0	0	0	7	62
	1964	205	110	165	90	40	20	0	0		6	205
	1969	60	47	54	45	6	2	0	0	-370	7	
	1974	60	47	54	45	6		0	0	1		60
	1979	5	3	94	45	5	2	0	0	3.12	7	60
	1984	48	21	8	020 i i	40	20	0	0		7	5 4.8
		40	2.1	0			20				7	48

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUP	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
HARTLEY	1958 1964 1969 1974	18,330 47,365 121,990 140,000	19.822 75.312 146.467 187.972	0	0	18,330 47,365 121,990 140,000	19,822 75,312 146,467 187,972	0	0	0	75 170 501 850	5,620 12,455 35,300
med.	1979 1984	200,000	251,417 219,511	0	0	200,000	251,417 219,511	0	0	0	864 865	65,000 97,910
HASKELL	1958 1964 1969 1974 1979	15,755 48,310 37,410 33,915 34,020 24,644	29,533 66,247 38,070 41,714 38,288 21,026	0 90 420 40 340	0 155 374 60 275	15,755 48,200 36,990 33,860 33,680 24,644	29,533 66,075 37,696 41,639 38,013 21,026	0 20 0 15 0	0 17 0 15 0	20 0 50 0	528 904 900 900 910 920	5,050 28,650 30,631 18,680 18,600
HAYS	1958 1964 1969 1974 1979	1,526 2,187 2,367 1,719 891 1,025	2,063 2,457 2,724 1,725 572 876	861 1,011 779 842 682 864	1,197 1,132 837 822 455 726	665 1,176 1,588 877 209	866 1,325 1,887 903 118	0 0 0	0 0	0 0 0	10 16 16 16	20,676 1,301 1,692 2,049 1,550 603
HEMPHILL	1958 1964 1969 1974 1979	180 1,249 1,921 3,678 4,357 3,201	206 1,693 2,506 5,180 6,899 5,260	0 0	0 0 0	161 180 1,249 1,921 3,478 4,117 2,961	206 1,693 2,506 4,997 6,675 5,060	0 0 0 200 240 240	0 0 0 183 224	0 0 0 20 40	6 19 31 38 59	757 180 1.169 1.741 3.498 4.357 3.201
HENDER SON	1958 1964 1969 1974 1979	1,695 685 1,032 0 210 13	1,348 661 342 0 35 29	1 •625 375 872 0	1.287 351 290 0	70 50 160 0 210	61 50 52 0 35	0 260 0 0 0	0 260 0 0 0	0 33 0 0	2 6 5 7 7	1.695 685 1.032 0
HIDALGO	1958 1964 1969 1974 1979	419,900 466,471 450,292 443,650 438,650 399,563	596,999 507,170 608,865 602,650 552,175 552,313	354,000 354,571 365,292 378,650 372,650 339,063	492,449 344,653 502,865 513,317 472,425 466,063	5,800 2,500 5,000 5,000 6,000	9,919 3,000 6,000 6,333 6,750	60,100 109,400 80,000 60,000 60,000	94,631 159,517 100,000 83,000 73,000 86,000	50 75 85 95	359 540 400 300 100	5,100 8,400 6,200 6,000 10,000 8,000

1997 F"-- Individ a Cherry 100 100011 " 1997 COLD Take" Take" Lake two Take-completes

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
7.	de la constanti									SURFACE		
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SOURCE-	NUMBER	ACRES
									FEET	PERCENT		
HILL	1958	200	170	200	170							
HILL	1964	455	421	200 350	17 ₀ 368	0 105	0 53	0	0		0	200
	1959	1,120	808	540	450	580	358	0	0	100	16 15	390
	1974	1,140	562	580	324	560	238	0	0		15	1,120
	1979	800	101	390	33	410	68	0	0	255	15	800
	1984	0	0	3,0	0	0	0	0	0		12	۵
					o.	0	o .	ū	ū	U	U	u
HOCKLEY	1958	160,000	165,014	0	0	160,000	165,014	0	0	0	4,700	8,000
	1964	194,400	397,983	۵	0	194,400	397,983	0	0	0	5,088	49,000
	1969	194,225	214,696	0	0	194,225	214,696	0	0	0	5,835	62,840
	1974	223,406	345,502	0	0	223,406	345,502	0	0	0	6,009	85,585
	1979	100,500	45,017	0	0	100,500	45,017	0	٥	0	6,165	91,964
	1984	150,900	100,958	0	0	150,740	100,852	160	107	70	6,295	101,420
ноор	1958	1,250	976	1,150	893	5	3	- 95	80			1 050
	1964	900	853	900	853	0	0	93	0		6	1,050
	1969	1,345	795	1,295	762	0	0	50	33		1	400 910
	1974	1,000	500	960	480	40	20	0	0		2	860
	1979	3,748	1,874	3,452	1,726	185	93	111	56		4	3,488
	1984	3,423	5,254	3,265	5,096	93	93	65	65		9	3,165
Transmission with the		E-120-0-1										W NESSE
HOPKINS	1958	170	81	95	29	25	10	50	42	4	3	170
	1964	155	101	6.5	3 3	40	30	50	38		2	155
	1969	127	72	127	72	0	0	0	0	10000	2	127
	1974	0	0	0	0	0	0	0	0	10.75 (2	0	0
	1979 1984	0	0	0	0	0	0	0	0		0	0
	1 70 4	137	58	137	58	0	0	0	0	0	0	136
HOUSTON	1958	5,100	2,449	4,550	2,174	250	125	300	150	50	3	3,075
	1964	2,588	1,228	2,488	1,178	0	0	100	50		3	1,798
	1969	4,520	2,062	4,420	2,012	0	0	100	50		3	3,060
	1974	4,340	1,887	3,010	1,378	0	0	1,330	509		6	4,280
	1979	77	19	77	19	0	0	0	0		6	77
	1984	353	161	254	112	5	2	94	47	50	8	171
HOWARD	1958	1,000	1,533	0		1 000	, , , , ,					1 10111
THOMPIND	1964	1,200	2,167	0	0	1,000	1,533	0	0		25	1.000
	1969	1,966	1,379	96		1,200	2,167	0	0		45	1,000
	1974	2,446	2,504	96	124	1,870	1,255	0	0	100	50	1.266
	1979	791	856	16	24	2,350 775	2,360	0	0		60	1.746
	1984	506	613	51	112	455	8 3 2 5 0 2	0	0	1000	60	781
			184 121	51	112			10-4	0	10-511	60	506

TABLE 1. - INDICATION - UNKERS FOR COUNTIES, INSR. 1984, 1984, 1984, 1984, AND 1984 - CONTINUE

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE- PERCENT	NUMBER	ACRES
HUDSPE TH	1958	2	07 707				20 202	2000	na-sant raments	100000		
HODSPE IH	1958	27,844	93,327	0	0	20,700 30,970	70,992	7.144	22,335	33	219	1.000
	1969	35,927	137,899	100	250	21,954	98,760 89,551	9,700	16,209 48,098	12 95	271 307	84 D 4 D
	1974	45,472	172,741	150	250	33,452	135,905	11,870	36.586	95	332	1,600
	1979	50,591	176,609	0	0	40.081	148.744	10,510	27,866	95	335	2.730
	1984	37,491	158,055	220	393	19,491	103,175	17,780	54,487	95	305	4 • 680
HUNT	1958	0	0									
HUNT	1964	197	147	0 173	0 135	0 24	0	0	0	0	0	0
	1969	0	0	1/3	122	0	12	0	0	0	2	197
	1974	15	7	15	7	0	0	0	0	0	1	0 15
	1979	155	103	155	103	0	0	0	0	0	0	155
	1984	155	103	155	103	٥	0	0	0		a	155
HUTCHI NS ON	1958	35,010	43,495	0	0	35.010	43.495	0				
11010111113011	1964	40,780	53,175	0	0	40,780	53,175	0	0	0	97 202	200
	1969	62,000	78,200	0	0	62,000	78,200	- 0	0	0	275	630
	1974	69,954	87,558	0	0	69,954	87.558	0	0	0	325	1,280
	1979	80,389	102,539	0	0	80,389	102,539	0	0	0	375	1,100
	1984	44,895	60,142	0	0	44,895	60,142	0	0	0	270	1,408
IRION	1958	1,550	2,457	1,135	1,900	400	522	15	35	73	4	60
	1964	2,130	3,526	1,835	3,073	236	385	59	68	32	10	78
	1969	2,292	3,325	1,674	2,318	559	894	59	113	40	13	184
	1974	2,427	2,479	1,973	1,938	404	516	50	25	50	15	247
	1979	1,973	3,348	1,556	2,882	417	466	0	0	0	14	586
	1984	1,673	2,660	1,359	2,281	314	379	0	0	0	16	562
JACK	1958	0	0	0	D	۵	0	0	0	0	О	۵
	1964	D	0	0	0	0	0	0	0	0	Ö	o
	1969	0	0	0	0	ū	0	0	D	0	0	۵
	1974	D	0	0	0	0	D	0	0	0	0	D
	1979	0	0	0	0	0	0	0	0	0	0	0
	1984	0	0	0	0	0	0	0	0	0	0	0
JACKSON	1958	28,165	97,808	0	0	26.245	91,858	1.920	5.950	26	160	102
	1964	28,481	89,327	85	42	26,797	84.221	1,599	5.064	29	410	105
	1969	33,750	116,417	0	0	33,096	114.128	654	2,289	63	535	0
	1974	41,784	125,506	563	1,782	40,856	122.568	365	1,156	50	585	0
	1979	41,489	131,382	O	0	38,209	120,995	3,280	10,387	27	605	176
	1984	30,685	96,669	0	0	28,265	89,006	2,420	7,663	24	645	250

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUP	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
JASPER	1958	180	168	50	33	80	120	50	15	90	,	*00
	1964	87	159	10	5	77	154	0	15		3 2	100
	1969	100	67	100	67	0	0	0	0		2	100
	1974	120	40	120	40	o o	0	0	a		0	120
	1979	135	120	35	70	0	0	100	50	1 177	2	135
	1984	1 3 5	172	35	105	0	D	100	67		2	135
JEFF DAVIS	1958	1,370	3,509	0	0	990	2,809	380	700	50	26	0
	1964	1,310	2,895	D	0	910	2,190	400	705		26	ū
	1969	846	2,235	O	0	729	1,901	117	334	50	0	o
	1974	320	792	10	17	240	608	70	167	50	14	o
	1979	9,433	12,328	0	0	9,433	12,328	0	0	0	36	8,615
	1984	1,976	2,310	25	38	1,951	2.273	0	0	0	54	1.760
JEFFER SON	1958	54,100	162,300	54,100	162,300	0	0	0	0	0	0	0
	1964	60,485	151,212	60,485	151,212	0	0	0	0	0	0	0
	1969	70,970	177,425	70,970	177,425	0	0	0	0	0	0	0
	1974	69,470	173,675	69,470	173,675	0	0	0	0	0	0	0
	1979	64,172	106,953	64,172	106,953	0	0	0	0	0	0	0
	1984	30,830	107,905	30,830	107,905	0	0	0	0	0	٥	222
JIM HOGG	1958	290	328	0	0	290	328	0	0	0	5	240
	1964	1,050	1,195	0	0	1,050	1.195	0	0		10	1.030
	1969	2,400	1,541	0	0	2,400	1,541	0	0		18	2,400
	1974	385	129	0	0	385	129	0	0		16	385
	1979	0	0	0	0	0	0	0	0	0	10	0
	1984	450	450	0	0	450	450	0	0		12	450
JIM WELLS	1958	2,920	1,014	760	356	1,860	433	300	225	50	28	2,920
	1964	3,141	1,696	768	378	2,073	1,093	300	225	50	38	2.171
	1969	6,385	2,807	80	40	4,805	2,142	1,500	625	50	32	4.885
	1974	6,335	2,961	140	47	6,195	2,914	0	0	0	40	4.475
	1979	6,635	2,931	0	0	6,635	2,931	0	0	0	40	4.855
	1984	5,505	2,648	0	0	5,505	2,648	0	0	0	42	3,865
NOSNHOL	1958	250	103	250	103	0	0	0	0	0	0	190
	1964	130	60	130	60	٥	0	0	0	0	0	130
	1969	363	217	183	67	180	150	0	0	0	3	363
	1974	0	0	0	0	0	0	0	0	0	3	0
	1979	50	13	0	0	50	13	٥	O		3	a
	1984	0	0	0	0	0	0	0	0	0	0	0

"I BLY 1 -- INDICATION SUPPORT FOR COMPLES, 1988, 1989, 1984, 1984, 1984, 600 1984-CONTINE

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	CE-WATER PPLIED TARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACDE EFFY	46056	4605	SURFACE		
	TEAR	ACRES	ACRE-FEET	ACKES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SOURCE - PERCENT	NUMBER	ACRES
KERR	1958	705	982	408	562	297	420	0	0	0	12	629
	1964	977	1,576	614	968	363	608	0	0	0	10	827
	1969	1,495	1,650	865	981	630	669	0	0	0	14	1,266
	1974	596	406	470	311	126	95	0	0	0	14	500
	1979	921	1,294	670	541	251	753	0	0		14	850
	1984	826	2,255	597	1,017	94	158	135	1,080	80	(14)	762
KIMBLE	1958	1,252	850	1,252	850	0	0	0	0	0	0	920
	1964	1,935	4,992	1,791	4,532	74	210	70	250		3	1.459
	1969	2,766	4,494	2,195	3,221	331	615	240	658		13	1,831
	1974	3,617	4,619	2,885	2,961	492	1.032	240	626		20	2,625
	1979	1,012	513	880	430	132	83	0	0		20	648
	1984	1,914	1,328	1,523	1,051	391	277	0	0	0	30	1,292
KING	1958	620	1,033	0	0	620	1,033	0	0		9	٥
	1964	1,030	1,583	200	200	830	1,383	0	0	-	15	180
	1969	670	337	100	17	570	320	0	0	100	14	350
	1974 1979	1,090	556 280	100	33	990	523	0	0		15	630
	1984	600	436	150	100	307	180	0	0		15	207
	1754	600	436	u	0	600	436	0	0	0	6	600
KINNEY	1958	2,335	3,173	600	692	1,535	2,301	200	180	30	14	0
	1964	5,900	11,147	600	1,000	5,300	10,147	0	0	0	36	0
	1969	8,986	16,658	2,550	4,325	6,436	12,333	0	0		61	0
	1974	8,550	14,317	2,500	3,497	6,050	10,820	0	0	1991	50	0
	1979	7,566	12,862	2,500	3,500	5,000	9,203	66	159		50	413
	1984	4,706	10,335	671	1,212	4,035	9,123	0	0	D	28	1.555
KLEBERG	1958	1,088	903	370	185	718	718	0	0	0	0	1.088
	1964	933	893	80	40	853	853	0	0		1	161
	1969	1,505	640	730	311	775	329	0	0		3	1.105
	1974	1,080	505	60	40	940	412	80	5 3		5	1.080
	1979	1,080	437	60	40	940	343	80	5 3		5	1,080
	1984	600	373	60	40	460	280	80	5 3	60	5	300
KNOX	1958	21,000	19,276	0	0	21,000	19,276	0	0	0	400	2,250
	1964	33,891	35,277	521	324	33,320	34,894	50	59	50	687	6.165
	1969	69,273	50,168	441	294	68,832	49.874	0	0		1,068	16,000
	1974	67,315	44,998	440	293	66,875	44,705	0	0		1.085	18,000
	1979	68,000	51,283	0	0	68,000	51,283	0	0		1,200	19,630
	1984	42,225	35,142	0	0	42,225	35,142	0	0	0	1,200	24,000
												Zanisti in

that, I. -- Inside tion Spinster For Countles, 1854, 1954, 1954, 1976, 1979, Aut. 1859-- Chilliant

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	CE-WATER		D-WATER PLIED		GATION US		IRRI- GATION	SPRINKLER SYSTEMS
				CON-F	ARM USE)						WELLS	
	45.0			0.000						SURFACE		
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SOURCE -	NUMBER	ACRES
									FEET	PERCENT		
		11	1375.0									
LAMAR	1958	160	60	160	60	0	0	0	0	0	0	160
	1964	300	100	270	93	30	7	0	0	0	1	290
	1969	790	209	770	202	20	7	0	0	0	1	790
	1974	205	68	205	68	0	0	0	D	0	10	205
	1979	205	68	205	68	0	0	0	0	0	10	205
	1984	1,760	4,667	1,760	4,667	Q	0	0	0	0	10	1.760
											7.7	
LAMB	1958	292,460	395,982	0	0	292,460	395.982	0	0	0	5,000	5,060
	1964	331,180	683,252	0	0	331,180	683,252	0	0	0	5,350	19,000
	1969	317,847	388,875	0	0	317,847	388,875	0	0	0	6.000	68,680
	1974	326,070	413.872	0	0	326,070	413.872	0	0	0	6,600	83,200
	1979	296,600	320,033	0	0	296,600	320,033	0	0	0	6.700	125,000
	1984	279,400	533,192	0	0	279,400	533,192	0	0	0	6,775	
						2174100	3334112	o,	U	U	0,113	134,000
LAMPASAS	1958	0	0	0	0	D						_
	1964	318	355	286	312	32	0 43	0	0	0	0	0
	1969	581	855	542	792			0	0	0	3	307
	1974	625	409	518	331	39 107	63	0	0	0	5	581
	1979	120	60	120	60	107	78	0	0	0	8	625
	1984	201	218				0	0	0	0	7	120
	1704	201	218	201	218	0	0	0	0	0	4	186
LA SALLE	1958	6,570	6,981	1,470	1,442	5,100	5,539	0	0	0	53	4.000
	1964	10,175	15,273	1,221	1.210	8.724	13,820	230	243	50	5.7	7.949
	1969	11,716	13,879	1,313	1,807	9,943	11.744	460	328	10	53	11.407
	1974	12,296	12,885	1,000	703	9,706	10,900	1,590	1.282	22	57	12,130
	1979	13,055	10,707	1,820	1,378	9.695	8,333	1,540	996	27	40	13,055
	1984	6,510	10,893	700	1,275	4,970	8,362	840				
		0,510	10,075	.00	1,213	4,770	0.302	840	1.257	30	40	6,510
LAVACA	1958	5,667	13,579	0	0	5.667	13.579	0	0	0	60	400
	1964	6,480	15,691	0	0	6,480	15,691	0	0	0	62	450
	1969	8,242	23,695	40	27	8,067	23,512	135	156	32	85	915
	1974	8,222	24,325	40	50	7,941	23,965	241	310	49	90	879
	1979	9,054	26,779	40	33	8.773	26,560	241	187	49	90	1.054
	1984	6,304	22,320	0	0	6,304	22,320	Ô	0	Ó	70	270
							,	· ·	U		, 0	210
LEE	1958	0	0	D	0	0	D	0	0	0	0	0
	1964	0	Ö	0	0	0	0	0	0	0	0	
	1969	250	188	0	0	250	188	0	0	0	3	0
	1974	880	683	425	349	455	334	0	0	0		250
	1979	215	91	35	18	180	73	0			8	880
	1984	178	140	106	88	40	27	32	0	0	9	215
				100	0.0	40	21	32	25	70	6	158

and a desired the control of the con

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

C OU NT Y			RRIGATION ARM USE)	SUF	ACE-WATER PPLIED TARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
										SURFACE		
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SOURCE - PERCENT	NUMBER	ACRES
LEON	1958	250	300	50	3.3	200	267	0	D	0	3	30
	1964	60	30	0	0	60	30	0	0		4	0
	1969	0	0	۵	0	0	0	0	0		2	0
	1974	45	34	0	0	45	34	0	0	0	4	45
	1979	C	0	а	0	0	0	0	0		4	0
	1984	0	0	0	0	٥	0	0	0	0	0	O
LIBERTY	1958	34,205	102,615	20,556	61,668	13,649	40,947	0	0	0	32	0
	1964	36,698	88,403	23,016	57,540	13,682	30,863	0	0	0	66	0
	1969	43,556	101,828	25,808	64,521	14,125	28.250	3,623	9.057	48	90	0
	1974	44,372	103,694	26,274	65,687	14,475	28,950	3,623	9.057	48	92	0
	1979	32,400	78,714	22,061	55,153	4.572	9.144	5,767	14,418	50	84	0
	1984	25,286	75,714	15,527	- 51,757	6.812	16,590	2,947	7,368	55	80	220
LIMESTONE	1958	0	0	a	0	0	0	0	0	0	0	0
	1964	0	0	0	0	0	0	0	0	0	0	0
	1969	95	95	65	65	30	30	0	0		3	95
	1974	40	40	0	0	40	40	0	0		4	40
	1979	0	0	0	0	0	0	0	0		4	0
	1984	0	0	0	0	0	10-040	0	0	0	0	٥
LIPSCOMB	1958	1,685	1,480	20	15	1,665	1,465	О	0	0	14	680
	1954	2,660	2,420	55	63	2,605	2.357	O	D	0	26	1,695
	1969	8,246	5,158	0	0	7,946	5,008	300	150		5 3	5,706
	1974	15,766	21,099	0	0	15,466	20,974	300	125		154	13,096
	1979	33,180	38,417	0	0	32,880	38,267	300	150		186	28,790
	1984	20,945	17.823	0	0	20,645	17,673	300	150	20	221	18,470
LIVE OAK	1958	1,280	921	100	139	980	603	200	179	50	14	430
	1954	2,538	1,831	341	195	1.713	1,233	484	403	46	38	1,413
	1969	4,923	2,109	690	430	4,233	1.679	0	0		65	4,050
	1974	3,713	2,157	600	433	3,113	1.724	0	0		65	2,330
	1979 1984	1,010	673	120	80	890	593	0	0		8	420
	1704	1,230	1,533	260	433	970	1,100	0	0	0	8	1,230
LLANO	1958	D	0	0	0	0	0	0	0	0	0	0
	1964	340	518	190	328	150	190	0	0		6	340
	1969	1,128	2,697	280	634	848	2.063	0	0	1.00	4.5	1.128
	1974	1,125	679	540	270	585	409	0	0		51	1.125
	1979	982	1,359	231	289	751	1.070	0	0		44	957
	1984	711	1,048	50	42	661	1,007	0	0	0	50	665

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

YEAR 1958 1964	ACRES	ACRE-FEET			GROUND-WATER SUPPLIED		IRRIGATION USING COMBINED SUPPLIES			GATION	SYSTEMS
			ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
1969	20 ₀ 100	700 273 68	200	700 273	0	0	0	0	0	0	0
1974 1979	17 30	51 40	17 17 30	68 51 40	0	0 0 0	0	0	0	1 1 1	0 0
1984	350,000	291,264	- 0	0	0	0	0	0		0	0
1964 1969 1974 1979	350,014 325,000 300,000 95,395 168,360	213,298 189,850 278,409 25,980 123,257	0 0	0 0 0 0 0 0	350,000 350,014 325,000 295,000 90,045 163,010	291,264 213,298 189,850 270,284 8,313 114,907	0 0 5,000 5,350 5,350	0 0 8,125 17,667 8,350	0 80 78	5,055 5,410 6,200 6,720 6,454 9,200	200 2,000 1,000 12,600 15,530 22,130
1958 1964 1969 1974 1979	65,000 79,200 92,070 72,485 64,559 84,980	79,501 79,067 23,477 72,382 38,290 60,393	0 430 130 300	0 183 108 175	65,000 79,200 91,640 72,355 63,959 80,980	79,501 79,067 23,294 72,274 37,815 54,793	0 0 0 300 4,000	0 300	0 0 0 75	1,500 2,175 2,466 2,532 2,730 2,500	1,500 3,400 2,650 4,120 18,060 17,820
1958 1964 1969 1974 1979	1,172 1,154 1,973 2,284 2,859 2,973	1,098 1,493 2,290 2,180 2,651 3,334	348 474 583 481 476	292 433 645 501 568 50	824 680 1,390 1,803 2,383 2,873	806 1.060 1.645 1.679 2.083 3.284	0 0 0	0	0 0	20 21 44 38 40 48	1.012 1.093 1.877 2.228 2.859 2.973
1958 1964 1969 1974 1979	4,015 7,233 6,642 6,509	1,942 3,213 5,181 4,907 0	5,680 5,657 430	0 4,421 4,255 0 738	0 962 852 0 825	0 760 652 0 1,562	4,015 7,233 0 0	3,213 0 0	97 0 0	71 75 80 80 60	1.745 5.805 3.611 3.389
1958 1964 1969 1974 1979	127 282 0 0	97 145 0 0	27 27 0 0	14 9 0 0	100 255 0 0	83 136 0 0	0 0 0 0	0	0 0	5 8 8 12 12	127 252 0 0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	979 984 958 958 966 977 977 978 966 977 977 977 977 977 977 977 977 977	779 95,395 984 168,360 958 65,000 969 92,070 974 72,485 979 64,559 984 84,980 958 1,172 1,154 969 1,973 2,284 2,859 984 2,973 958 4,015 7,233 6,642 7,233 6,642 979 0 984 1,255	2779 95,395 25,980 2884 168,360 123,257 258 65,000 79,501 264 79,200 79,067 269 92,070 23,477 274 72,485 72,382 279 64,559 38,290 284 84,980 60,393 258 1,172 1,098 264 1,154 1,493 269 1,973 2,290 274 2,284 2,180 279 2,859 2,651 284 2,973 3,334 295 4,015 1,942 274 6,509 4,907 279 0 0 284 1,255 2,300 285 127 97 284 1,255 2,300 296 0 0 297 0 0 298 1,255 2,300	2779 95,395 25,980 0 284 168,360 123,257 0 284 168,360 123,257 0 284 168,360 123,257 0 285 65,000 79,501 0 286 79,200 79,067 0 287 72,382 130 287 72,382 130 288 84,980 60,393 0 288 84,980 60,393 0 258 1,172 1,098 348 264 1,154 1,493 474 269 1,973 2,290 583 279 2,859 2,651 476 284 2,973 3,334 100 258 4,015 1,942 0 264 7,233 3,213 0 265 4,015 1,942 0 267 6,642 5,181 5,680 274 6,509 4,907 5,657 284 1,255 2,300 430	2779 95,395 25,980 0 0 284 168,360 123,257 0 0 285 65,000 79,501 0 0 2664 79,200 79,067 0 0 2669 92,070 23,477 430 183 274 72,485 72,382 130 108 279 64,559 38,290 300 175 284 84,980 60,393 0 0 258 1,172 1,098 348 292 264 1,154 1,493 474 433 269 1,973 2,290 583 645 279 2,859 2,651 476 568 2984 2,973 3,334 100 50 2958 4,015 1,942 0 0 2964 7,233 3,213 0 0 2969 6,642 5,181 5,680 4,421 297 6,509 4,907 5,657 4,255 2984<	2779 95,395 25,980 0 0 90,045 284 168,360 123,257 0 0 163,010 258 65,000 79,501 0 0 65,000 266 92,070 23,477 430 183 91,640 279 64,559 38,290 300 175 63,959 284 84,980 60,393 0 0 80,980 258 1,172 1,098 348 292 824 264 1,154 1,493 474 433 680 295 1,973 2,290 583 645 1,390 274 2,284 2,180 481 501 1,803 279 2,859 2,651 476 568 2,383 2984 2,973 3,334 100 50 2,873 2984 2,973 3,334 100 0 0 2969 6,642 5,181	274 300,000 278,409 0 0 295,000 270,284 279 95,395 25,980 0 0 90,045 8,313 284 168,360 123,257 0 0 163,010 114,907 258 65,000 79,501 0 0 79,200 79,067 264 79,200 79,067 0 0 79,200 79,067 264 79,200 79,067 0 0 79,200 79,067 274 72,485 72,382 130 108 72,355 72,274 279 64,559 38,290 300 175 63,959 37,815 284 84,980 60,393 0 0 80,980 54,793 258 1,172 1,098 348 292 824 806 264 1,154 1,493 474 433 680 1,060 274 2,284 2,180 481 501	774 300,000 278,409 0 0 295,000 270,284 5,000 789 95,395 25,980 0 0 90,045 8,313 5,350 7884 168,360 123,257 0 0 163,010 114,907 5,350 958 65,000 79,501 0 0 65,000 79,501 0 964 79,200 79,067 0 0 79,200 79,067 0 969 92,070 23,477 430 183 91,640 23,294 0 977 4 72,382 130 108 72,355 72,274 0 9784 84,980 60,393 300 175 63,959 37,815 300 958 1,172 1,098 348 292 824 806 0 964 1,154 1,493 474 433 680 1,060 0 974 2,284 2,180 48	774	774	774

TIME I TO - CONTENT - PRODUCE AND COMMITTED INTO TARRY TARRY TARRY THE TARRY TORS TARRY TARRY

TABLE I .-- IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY		ALL IRRIGATION (ON-FARM USE)		SURFACE-WATER SUPPLIED		GROUND-WATER SUPPLIED		IRRIGATION USING COMBINED SUPPLIES			IRRI- GATION	SPRINKLER SYSTEMS
				(ON-F	ARM USE)						WELLS	
					20.00							
	000000000000									SURFACE		
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SOURCE -	NUMBER	ACRES
									FEET	PERCENT		
MADISON	1958	540	734	500	667	40	67	0	0	0	1	0
	1964	790	693	560	540	08	53	150	100	50	4	250
	1969	994	687	664	444	180	130	150	113	50	4	350
	1974	40	40	0	0	40	40	0	0	0	4	40
	1979	108	59	108	59	0	0	0	0	07.07	4	0
	1984	211	93	211	93	0	0	0	ū		0	50
								J	J		U	30
MARION	1958	0	0	0	0	0	0	0	0	0	0	0
	1964	160	80	160	80	0	Ö	ū	٥		ū	160
	1969	120	40	120	40	۵	0	0	0		0	120
	1974	0	0	0	0	0	0	0	0			
	1979	0	0	0	0	۵	0	0			0	0
	1984	0	0	0	0	0			0		0	۵
	1704	U	u	U	U	U	0	0	0	0	0	0
MARTIN	1958	26,200	40,675	0	0	26,200	40,675				200	27 200
HAR I IN	1964	22,000	45,665	0	0			0	0		289	23,200
	1969	28,952	29,187	0	70	22,000	45,665	0	0		300	21,700
	1974			0	0	28,952	29,187	0	0		350	28,952
	1979	26,715	29,825	-	0	26,715	29.825	0	0	576	325	26.715
		25,000	15,625	0	0	25,000	15,625	О	0		325	25,000
	1984	15,024	16,537	0	0	15,024	16,537	0	0	0	356	14,991
MASON	1958	4,345	4,737	0		7.5					200	
MASON	1964	5,254	8,583		0	4,345	4,737	0	0		67	4,345
	1969	8,437	16,804	132	203	5,122	8,380	0	0		92	5,144
				242	384	8,195	16,420	0	0		300	8,410
	1974	8,414	6,464	242	160	8,172	6,304	0	0		350	8.374
	1979	6,957	14,867	125	178	6,832	14,689	0	D		289	6,951
	1984	5,889	13,640	125	264	5,764	13,376	0	0	0	280	5,841
MATAGORDA	1958	35,200	140,460	27,100	110 450	7 700	10 (50		17.740	4.0	5.4	
THE THOUSE	1964	45.952	213,577	37,386	110,450	3,700	12,650	4,400	17,360		41	0
	1969	55,400				5,296	19,058	3,270	14,170		40	230
	1974		216,050	46,001	184,004	5,899	18,921	3,500	13,125		109	690
		55,686	208,659	22,401	89,604	7,050	20,674	26,235	98,381		114	1,600
	1979	56,759	206,231	22,743	88,302	8,184	21,059	25,832	96,870		120	3,924
	1984	46,886	158,139	30,128	115,952	12,571	27,751	4,187	14,436	80	126	8 . 875
MAVERICK	1958	29,431	35,001	20 25/	77 447	1 175	1 226	100			pun	
MAVERICA				28,256	33,667	1,175	1,334	0	0		6	0
	1964	38,449	110,696	36,820	108,282	1,629	2,414	0	0		14	0
	1969	46,629	117,706	45,000	113,520	1.629	4,186	0	0		14	ACRES O
	1974	42,729	100,930	41,100	97,600	1,629	3,330	0	0		14	400
	1979	42,030	63,337	40.400	61,097	1,630	2,240	0	0		14	640
	1984	40,194	85,569	39,300	84,162	894	1,407	0	0		14	640

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

C CUNT Y		ALL IRRIGATION (ON-FARM USE)		SURFACE-WATER SUPPLIED (ON-FARM USE)		GROUND-WATER SUPPLIED		IRRIGATION USING COMBINED SUPPLIES			IRRI- GATION	SPRINKLER SYSTEMS
		10000		10.1	AKII OSLI	Y					WELLS	
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
450744		200		100								
MEDINA	1958	13,400	21,893	5,400	10.661	8.000	11,232	0	0		40	0
	1964	19,564	38,169	10,500	23,708	9,064	14,461	0	0		54	800
	1974	26,210 34,450	62,635	13,100	29,967	13,110	32,668	0	0		117	2,210
	1979	38,050	69,667	13,250	28,634	21,200	41,033	0	0		154	3,505
	1984	A 7 10 10 10 10 10 10 10 10 10 10 10 10 10	65,370	13,250	21,733	24,800	43,637	0	0	-	175	5,985
	1 78 4	46,868	126,194	13,840	37,762	30,804	81,390	2,224	7.043	50	185	10,648
MENARD	1958	3.500	5,210	3,300	4.922	200	288	0	0	0	6	7.0
	1964	2,154	3,051	1,873	2,661	281	390	0	0		9	30 20
	1969	2,930	3,790	2,900	3,730	30	60	0	0		9	30
	1974	3,005	3,331	2,900	3,016	105	315	0	0		12	105
	1979	3.254	2,431	3.154	2,348	100	83	0	٥		14	120
	1984	3,398	2,588	3.202	2,425	196	163	a	0		21	270
							103	•	Ü	Ü	2.1	210
MIDLAND	1958	12,175	24.866	0	0	12,175	24.866	D	0	0	260	12,175
	1964	11,826	14,847	0	0	11,826	14,847	0	0		389	10,297
	1969	28,505	33,429	0	0	28,505	33,429	0	0		250	26.200
	1974	29,385	37,457	0	0	28.276	35.753	1.109	1.704		300	21.545
	1979	17,745	24,571	a	0	16,545	22.071	1,200	2.500		350	14,100
	1984	19,794	23,852	0	0	15,727	18,997	4,067	4,855		390	13,172
CONT. 12 (1)												
MILAM	1958	2,365	1,836	1,930	1,479	35	23	400	334	50	9	295
	1964	4,504	3,434	3,854	2,844	250	190	400	400	60	9	2,114
	1969	1,945	787	1,475	594	220	110	250	8 3		10	1.005
	1974	2,025	1,316	1,535	1,001	240	123	250	192		12	1,055
	1979	165	117	165	117	0	0	0	0		12	80
	1984	1,037	1,532	1,010	1,487	27	45	0	0	0	12	140
MILLS	1958	1.880	3,066	1.880	3,066	٥	0	0	0			
	1964	2,387	2,455	2,387	2,455	0	0	0	0		0	50 476
	1969	2,083	4,092	2,083	4,092	0	0	0	0		0	679
	1974	3,120	6,559	3.120	6,559	0	0	0	0		0	1.738
	1979	1,945	1,637	1,710	1,480	235	157	0	0		4	475
	1984	2,658	2,468	2,510	2,408	132	44	16	16		4	1,043
								10	10	80	•	1,043
MITCHELL	1958	15,000	23,741	0	0	15,000	23,741	0	0	D	140	15.000
	1964	12,000	23,291	0	0	12,000	23,291	0	0		110	12.000
	1959	5,243	2,682	120	60	4,953	2,556	170	66	32	310	5,233
	1974	6,413	4,380	220	110	6,023	4,204	170	66		335	6,403
	1979	2,940	2,525	150	150	2,790	2,375	0	0	0	300	2,940
	1984	2,798	2,739	0	0	2,798	2,739	0	0	0	275	2,783

THE PROPERTY OF THE PARTY OF TH

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY		ALL IF	ALL IRRIGATION	SURFA SUP CON-F	SUPPLIED	SROUN	GROUND-WATER SUPPLIED	IRRI COMB	IRRIGATION USING COMBINED SUPPLIE	SING	IRRI- GATION WELLS	SPRINKLER
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE -	NUMBER	ACRES
									FEET	PERCENT		
MONTAGUE	1958	0	0	0	0	0		C				
	1964	211	144	104	£ 43	101	101	0	0 0	0 0	ی د	211
	1969	320	137	240	89	80	60 37	0	0		0	320
	1974	512	359	202	76	105	77	205			10	512
	1979	435	179	2	2	06	15	340	163		12	345
	1984	909	191	150	108	307	**	64			21	277
MONTGOMERY	1958	120	80	60	0 %	0.9	C 8	c				130
	1964	260	81	100	11	160	70	0 0			N 16	240
	1959	135	135	M	35	100	100	0 0	0 0		0 3	1 2 5
	1974	0	0	0	0	0)	0			0	
	1979	0	0	0	0	0	0	0	0		0	
	1984	13	13	0	0	13	13	0	0	0	M	0
MOORF	1958	81.280	87 8 28	C	c	C		C				
	1064	112 100	160 620	0 0	0 0		828868	0 (0 (756	0
	1 40 4	113,180	100,034	2 (0	113,180		0	0		264	190
	100	232 :32	228 8 28	0 0	0	212,780	218,828	0	0		890	790
	* 0	230,136	327,908	0 0	0	230,136	0	0	0	0	1,007	840
	1414	233,125	504 + 033	0	0	233,725	0	0	0		1,190	2
	1 48 4	710,100	287,913	0	0	210,100	6 9 1	0	0		1,211	24,000
MORRIS	1958	170	119	09	19	0	0	110	45	20	2	140
	1964	160	42	10	3	0	0	150			2	160
	1969	07.4	273	450	265	0	0	20	80		2	470
	1974	04 70	273	450	265	0	0	20	8		2	450
	1979	275	8.5	275	8.5	0	0	0	0	0	0	275
	1984	475	909	20	43	0	0	455	463		3	475
MOTLEY	1958	2,932	2,401	0	0	2.932	2.401	0			75	7.457
	1964	3,915	4,038	0	0	3,915	.03	0	0		82	3.715
	1969	7,164	7,131	0	0	7,164	7,131	0	0	0	100	7.164
	1974	7,384	6 2 2 2 3	80	09	7,304	664.9	0	0		110	7.384
	1979		2,975	0.4	37	7,504	2,938	0	0		118	7.164
	1984	09466	4,309	360	200	9,100	10	0	0		125	9,080
NA CO GD OC HE S	1958	On	7	0.40	7		C	c	-			2
	1964	6	. 3		2	3		0 0	0 0		n -	2 0
	1969							0 0	0 0		4 (
	1974	25	21	25	21	0 0	0 0		0 0			25
	1979	0		0	0	0	0	0) [) (67
	1984	53	23	0	S	2 2	19	0		0	2 0	3
								Linde	ALC: UNIVERSITY		THE LAND	N. W. W. L. W.

GROUND-WATER

IRRIGATION USING

IRRI-

SPRINKLER

SURFACE -WATER

COUNTY

ALL IRRIGATION

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY		ALL I	ALL IRRIGATION (ON-FARM USE)	SURFA SUP (ON-F	SUPPLIED SUPPLIED (ON-FARM USE)	GROUNI	GROUND-WATER SUPPLIED	IRRIG	RRIGATION USING OMBINED SUPPLIE	SING	IRRI- GATION WELLS	SPRINKLER
	YEAR	ACRES	A CRE -FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE PERCENT	NUMBER	ACRES
ORANGE	1958 1964 1969 1974 1979	4,321 4,846 4,232 4,232 1,739	7,202 14,403 10,300 10,300 3,188 4,403	4,050 4,575 3,673 3,673 1,739 1,321	6,750 13,725 9,182 9,182 3,188	271 271 559 559 0	452 678 1,118 1,118	00000	00000	00000	11 4 4 0 5	00000
PALO PINTO	1958 1964 1969 1974 1979	1,183 373 2,077 1,680 308	1+071 208 1,327 840 55 98	1,183 370 1,938 1,544 308	1,071 206 1,258 772 55 95	139 136 136	689	00000	00000	00000	1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,183 373 2,077 1,680 308 114
PANOLA	1958 1964 1969 1974 1979	45 96 56 10 32	8 2 2 3 3 6 4 6 4	2 6 6 5 3 2 0 0 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	27720	30 30 10	15 15 15 15	00000	00000	00000	2 8 8 0 0	40 95 56 10 32
PARKER	1958 1964 1969 1974 1979	1,542 1,152 1,139 800 647	529 1,270 1,116 504 363 328	1,542 1,152 1,139 745 647	529 1,270 1,116 472 363	55	32 32 32 32 32 32 32 32 32 32 32 32 32 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100	0000	0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1,242 782 769 800 647
PARMER	1958 1964 1969 1974 1979	4 04,222 377,000 318,647 382,210 417,986 291,970	773,936 574,020 493,295 605,697 592,805 278,193	00000	00000	404,222 377,000 318,357 381,920 417,696 291,710	773,936 574,020 492,817 605,214 592,289 277,873	290 290 290 290 290 290	478 478 483 517 320	30 30 30 80 80 80 80 80 80 80 80 80 80 80 80 80	2,410 2,650 3,402 3,772 3,973	250 1,480 6,100 22,150 57,630 67,460
PECOS	1958 1964 1969 1979 1984	117,413 119,313 55,043 51,795 27,291 31,232	345,266 367,455 201,748 183,669 94,462 90,022	00000		104,113 111,113 50,591 48,462 26,323 31,232	313,900 339,397 187,157 171,240 90,147	13,300 8,200 4,452 3,333 968	31,366 28,058 14,591 12,429 4,316	55 18 63 50 75	636 1,166 912 911 911 915	3,097

1958 1964 1960 1964 1960 1964 1960 1964 1966 1964 1966 1964 1966 1964 1966 1964 1966	TEAM ACRES ACRE-FEET ACRES ACRE-FEET ACRES	COUNTY		ALL IS	ALL IRRIGATION (ON-FARM USE)	D N	ATE	GROUND-WAT SUPPLIED	D-WATER PLIEJ	IRRIG	RIGATION USING MBINED SUPPLIE	SING	IRRI- GATION	SPRINKLER
1958 ACRES ACRESTED ACRESTED ACRES ACRESTED ACRES ACRESTED ACRES ACRESTED ACRES ACRESTED ACRES ACRESTED ACRES	THE STATE ACRES ACRE-FEET ACRES ACRE					- NO	ARM USE)						WELLS	
1958 Section	VEAR KORE KORE-FEET KORE-FEET KORE-FEET AGRES											SURFACE		
956 10 10 10 10 10 10 10 1	1958 14,000 10,000 22,000 20 20 20 20 20		YEAR	ACRES	ACRE-FEET		CRE-FEE	ACRES	ACRE-FEET	ACRES	RE	SOURCE	NUMBER	CRE
1958 1964 1960	1958 11,000 10,										4	LERCEN		
1964 50	1964 50	POLK	1958	0	0	0	0	0	0	0	0	0	9	0
1979 1979	1956 1958 1950 22,234 22 22 75 25 25 25 25 25		1964	20	25		25	0	0	0	0	0	2	0
1974 85 11 1000	1958 11,000 10,000 22,558 28 28 28 28 28 28 28		1969	0 0	0	0	0	0	0	0	0	0	9	0
1956 11,000 10,000 0 11,000 10,000 0 0 0 0 0 0 0 0	1956 11-1000 10-1000		1974	0 10	0 6		0 (0	0	0	0	0	9	0
1958 11,000 10,000 22,548 19,000 10,000 10,000 22,548 19,000 10,000 22,548 19,000 10,000 22,548 19,000 22,549 19,000 22,	1958 11-000 22-548 20 11-000 22-548 20 22-548 20 14-300 22-548 22-548 20 22-548 20		1001	92	282		22	20	9	0 1	0	0	3	85
1958 11,000 10,	1954 11,000 1,000 22,594 1,000 1,0		0	9	977	0	D	16	2	D	0	0	2	0 †
1964 11,130 22,548 0 14,130 20,544 0 0 14,130 20,544 0 0 14,130 17,124 18,124 20,144 0 14,124 20,144 18,124 20,175 20,844 0 18,123 24,127 20,844 0 19,124 20,124	1944 14,757 27,548 0 0 17,757 27,884 0 0 0 195 1974 18,233 24,3124 0 0 16,233 23,437 0 0 10,233 1974 18,233 24,3124 0 0 16,233 23,437 0 0 10,00 1958 5,188 18,926 13,713 0 0 1,182 1,182 1,195 1,195 1,195 1954 5,784 1,197 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1958 5,188 18,926 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1958 5,188 18,926 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1958 6,769 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1958 6,769 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1958 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1959 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1959 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1959 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1959 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1959 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1959 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1950 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1950 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1950 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1950 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1951 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1,192 1952 1,192 1,1	POTTER	95	11,000	10,000	0	0	-	0	0	0	0	55	0
1999 18,724 20,735 20,484 0 17,757 20,844 0 10 17,757 20,844 10 10 10 10 10 10 10	1954 17,757 20,844 0 16,233 24,324 0 0 0 10,545 10,546 10,523 24,400 10,523 24,327 10,546 10,523 10,544 10,523 10,544 10,523 10,544 10,524 10,54		96	14,300	22,548	0	0	7	4	0	0	0	0 4	0
1974 18,233 24,327 0 12,840 16,515 2400 14,200 70 95 2,498 15,244 1	1974 15,123 24,1327 0		96	17,757	20,844	0	0	7	4	0	0	0	75	0
1979 15,240 20,715 0 12,840 16,515 2,400 4,200 70 95 2,416 19,426 1	1979 15.24G 20.715 0 12.84G 16.515 2.40G 4.20G 70 95 2.46G 19.4G 19.		67	18,233	24,327	0	0	8	32	0	0	0	0	0
984 8,705 13,253 0 6,185 8,857 2,520 4,396 70 85 2,488 9,645 17,955 0 0 228 5,145 5,277 19,495 80 60 60 60 60 60 60 60	1984 8,705 13,253 0 6,185 8,857 2,520 4,396 70 85 2,488 18,926 195 1,192 1,192 1,192 1,195		16	15,240	20,715	0	0	2,	-	0 40	,20	70	6	,16
1958 5,188 18,926 10 10 228 517 4,960 18,409 80 60 60 60 60 60 60 60	1958 5,188 18,926 18,926 18,926 18,926 18,926 18,926 18,926 18,926 18,926 18,926 18,926 18,926 18,926 18,926 18,926 18,926 18,926 19,9		98	8,705	13,253	0	D		5	, 52	.39	7.0	8.5	. 48
1964 5,445 17,527 19 19 1,192 4,965 19 1,192 4,965 19 1,192 19 19 19 19 19 19 19	1964 5,445 17,572 18	PRESTOTO	0	1 8 8	10.076	C	C	000		č		0		
1959 5,851 23,709 78	1954 5-10-15		0 0	00140	034.401	0	0 0	927	0 .	4 70	7.	80	0.9	0
1974 6,374 23,471 4,838 23,600 3,611 8,317 4,145 85 65 65 65 65 65 65 6	1974 6,334 23,471 7		96	5 440	27 700		C	084	. 19	964	= :	80	09	0 5
1979 84649 23,944 4,983 23,600 3,811 8,118 3,549 19,185 1,400 1,771 3,349 19,185 1,400 1,401 19,185 1,400 1,401 19,185 1,400 1,401	1979 8,649 31,941 4,898 23,600 1,971 3,349 0 0 0 0 0 0 0 0 0		0 0	7 27 4	101,62		1		200	200	916	3 0	09	0 .
1964 6,769 23,944 4,998 20,596 1,771 3,349 0 0 0 0 0 0 0 0 0	1984 6,769 23,944 4,998 20,596 1,771 3,349 0 0 0 0 0 1,494 1,998 20,596 1,771 3,349 0 0 0 0 0 0 0 0 0		97	0 0 0 0 0 0	21.017	2 0	2		100	674	2	0 0	0 0	0 0
958 56 36 36 37 140 37 140 37 140 37 37 37 37 37 37 37 3	1958 60		98	6-769	73.944	000	00000	•	4 7 4	0 0	0 0	5 0	0 20	3 0
1958 60	1956 15 15 15 14 15 15 14 15 15						2 2		7	0	0	0	0	7
1964 15 15 15 16 17 17 17 17 17 17 17	1964 15 15 15 16 17 17 17 17 17 17 17	RAINS	95	09	30	9	30	0	0	0	0	0	0	60
1969 140 30 140 30 0	1969 140 30 140 30 140 30 140 30 140 30 14		96	15	2		2		M	0	0	0	-	15
1974 0	1974 0		96	140	30	3	30		0	0	0	0	2	3
1979 20 47 20 0 </td <td>1979 1979 1979 1979 1979 1979 1979 1979 1979 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1974 1970 <th< td=""><td></td><td>67</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>2</td><td>0</td></th<></td>	1979 1979 1979 1979 1979 1979 1979 1979 1979 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1974 1970 <th< td=""><td></td><td>67</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>2</td><td>0</td></th<>		67	0	0	0	0	0	0	0	0	0	2	0
958 95,000 86,986 0 0 0 95,000 86,986 0 0 0 700 16 958 95,000 147,717 0 0 0 91,000 147,717 0 0 0 0 1,033 80 1,150 170 959 84,659 87,545 0 0 0 84,219 95,850 1,000 1,033 80 1,200 1,28 979 74,446 79,955 350 325 72,496 78,020 1,600 1,610 65 1,190 3,86 979 74,446 79,955 3350 325 72,496 78,020 1,600 1,610 65 1,190 3,86 984 58,255 53,503 350 350 55,625 50,423 2,280 2,730 60 410 3,86 958 10,247 15,334 0 0 0 10,247 15,334 0 0 0 25,03 964 10,247 15,334 0 0 0 16,451 15,434 0 0 0 25,03 979 23,065 26,937 0 0 23,065 26,937 0 0 0 785	1984 20 47 20 47 0 0 95,000 86,986 0 0 700 10		16	0	0		0	0	D	0	0	0	0	0
1958 95,000 86,986 0 95,000 86,986 0 700 170 16 <td>1958 95,000 86,986 0 95,000 86,986 0 700 1700 <t< td=""><td></td><td>98</td><td>20</td><td>47</td><td></td><td>47</td><td>D</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></t<></td>	1958 95,000 86,986 0 95,000 86,986 0 700 1700 <t< td=""><td></td><td>98</td><td>20</td><td>47</td><td></td><td>47</td><td>D</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></t<>		98	20	47		47	D	0	0	0	0	0	0
1964 91,000 147,717 0 0 91,000 147,717 0 </td <td>1964 91,000 147,717 0 91,000 147,717 0 0 91,000 147,717 0 0 821 40 1969 84,659 84,659 86,512 1,000 1,033 80 1,150 67 1974 84,659 87,545 1,000 1,000 1,000 1,150 67 1974 84,659 87,545 350 325 72,496 78,020 1,610 1,610 65 1,190 3,58 1974 58,255 53,503 350 356 55,625 50,423 2,730 60 410 3,86 1984 19,247 18,334 0 0 0 10,247 15,334 0 0 0 15,334 0</td> <td>RANDALL</td> <td>95</td> <td>95,000</td> <td>86,986</td> <td>0</td> <td>0</td> <td>95,000</td> <td>86 • 986</td> <td>0</td> <td>0</td> <td>0</td> <td>700</td> <td>160</td>	1964 91,000 147,717 0 91,000 147,717 0 0 91,000 147,717 0 0 821 40 1969 84,659 84,659 86,512 1,000 1,033 80 1,150 67 1974 84,659 87,545 1,000 1,000 1,000 1,150 67 1974 84,659 87,545 350 325 72,496 78,020 1,610 1,610 65 1,190 3,58 1974 58,255 53,503 350 356 55,625 50,423 2,730 60 410 3,86 1984 19,247 18,334 0 0 0 10,247 15,334 0 0 0 15,334 0	RANDALL	95	95,000	86,986	0	0	95,000	86 • 986	0	0	0	700	160
1969 84,659 87,545 0 83,659 86,512 1,000 1,033 80 1,150 67 1974 85,219 96,883 0 0 84,219 95,850 1,000 1,033 80 1,200 1,28 1974 85,219 96,883 3 350 325 72,496 78,020 1,600 1,610 65 1,190 3,58 1984 58,255 53,503 350 55,625 50,423 2,730 60 410 3,86 1984 58,256 53,503 350 55,625 50,423 2,730 60 410 3,86 1964 10,247 15,334 0 0 10,247 15,334 0 0 0 19 0 0 1,51 3,46 6 1,51 1,51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1969 84,659 87,545 0 83,659 86,512 1,000 1,033 80 1,150 67 1974 85,219 96,883 0 0 84,219 95,850 1,000 1,033 80 1,200 1,28 1974 85,219 96,883 350 325 72,496 78,020 1,600 1,610 65 1,190 3,58 1984 58,255 53,503 350 356 55,625 50,423 2,730 60 410 3,86 1984 58,255 53,503 350 35,625 55,426 7,730 60 410 3,86 1964 10,247 15,334 0 0 10,247 15,334 0 0 15 3 1964 10,247 15,334 0 0 0 16,451 0 0 0 158 3 1974 11,085 14,451 15,434 0 0 0 0 </td <td></td> <td>96</td> <td>91,000</td> <td>47,71</td> <td>0</td> <td>0</td> <td>91,000</td> <td>147,717</td> <td>0</td> <td>0</td> <td>0</td> <td>821</td> <td>004</td>		96	91,000	47,71	0	0	91,000	147,717	0	0	0	821	004
1974 85,219 96,883 0 0 84,219 95,850 1,000 1,033 80 1,200 1,200 1979 74,446 79,955 350 325 72,496 78,020 1,600 65 1,190 3,58 1984 58,255 53,503 350 356 55,625 50,423 2,730 60 410 3,86 1984 58,256 53,503 350 2,620 4,270 0 0 410 3,86 1964 10,247 15,334 0 0 0 0 0 0 0 15,434 0 0 0 15,434 0 0 0 0 0 0 250 1,51 1,51 0 <td>1974 85,219 96,883 0 0 84,219 95,850 1,000 1,033 80 1,200 1,200 1979 74,446 79,955 350 325 72,496 78,020 1,600 65 1,190 3,58 1984 58,255 53,503 350 356 55,625 50,423 2,730 60 410 3,86 1984 58,255 53,503 350 2,620 4,270 0 0 410 3,86 1964 10,247 15,334 0 0 10,247 15,334 0 0 158 36 1969 16,451 15,434 0 0 0 16,451 15,434 0 0 0 250 1,51 1979 23,065 26,937 0 0 23,065 26,937 0 0 0 1,51 50 1984 25,017 33,721 0 0 0 0 <td< td=""><td></td><td>96</td><td>84,659</td><td>87,545</td><td>C</td><td>0</td><td>83,659</td><td>86,512</td><td>004</td><td>•03</td><td>80</td><td>,15</td><td>675</td></td<></td>	1974 85,219 96,883 0 0 84,219 95,850 1,000 1,033 80 1,200 1,200 1979 74,446 79,955 350 325 72,496 78,020 1,600 65 1,190 3,58 1984 58,255 53,503 350 356 55,625 50,423 2,730 60 410 3,86 1984 58,255 53,503 350 2,620 4,270 0 0 410 3,86 1964 10,247 15,334 0 0 10,247 15,334 0 0 158 36 1969 16,451 15,434 0 0 0 16,451 15,434 0 0 0 250 1,51 1979 23,065 26,937 0 0 23,065 26,937 0 0 0 1,51 50 1984 25,017 33,721 0 0 0 0 <td< td=""><td></td><td>96</td><td>84,659</td><td>87,545</td><td>C</td><td>0</td><td>83,659</td><td>86,512</td><td>004</td><td>•03</td><td>80</td><td>,15</td><td>675</td></td<>		96	84,659	87,545	C	0	83,659	86,512	004	•03	80	,15	675
1979 74,446 79,955 350 325 72,496 78,020 1,600 1,610 65 1,190 3,58 1984 58,255 53,503 350 35,625 50,423 2,730 60 410 3,86 1958 2,620 4,270 0 0 10,247 15,334 0 0 10 10 10 15 <	1979 74,446 79,955 350 325 72,496 78,020 1,600 1,610 65 1,190 3,58 1984 58,255 53,503 350 35,625 55,625 50,423 2,730 60 410 3,86 1958 2,620 4,270 0 0 10,247 15,334 0 0 15 34 15 36 15 34 35 15 34 35 34 34 34 35 34		25	85,219	96,883	0	0	84,219	95,850	00	.03	80	.20	. 28
1984 58,255 53,503 350 35,625 50,423 2,280 2,730 60 410 3,86 1958 2,620 4,270 0 0 10,247 15,334 0 0 0 10,247 15,334 0 0 158 36 1969 16,451 15,434 0 0 0 15,434 0 0 250 1,51 1974 11,085 14,531 0 0 0 11,085 14,531 0 0 0 346 6 1979 23,065 26,937 0 0 0 785 2	1984 58,255 53,503 350 35,625 50,423 2,280 2,730 60 410 3,86 1958 2,620 4,270 0 0 10,247 15,334 0 0 0 10 15 34 15 36 158 36 158 36 158 36 158 36 15 15 36 15 36 15 36 15 36 15 36 15 36 15 36 15 36 15 36 15 36 15 36 15 36 15 36 15 36 15 36 15 36 15 36 15 36 15 26 1		6		79,955	350	325	72,496	78,020	.60	,61	65	.19	.58
1958 2,620 4,270 0 0 2,620 4,270 0 0 0 15,334 0 0 0 15,334 0 0 15,334 0 0 15,334 0 0 15,834 0 0 15,834 0 0 15,834 0 0 15,834 0 0 0 1,51	1958 2,620 4,270 0 0 2,620 4,270 0 0 15,334 0 0 15,334 0 0 15,334 0 0 15,834 36 1969 16,451 15,434 0 0 16,451 15,434 0 0 250 1,51 1974 11,085 14,531 0 0 11,085 14,531 0 0 346 6 1979 23,065 26,937 0 0 23,065 26,937 0 0 0 785 2 1984 25,017 33,721 0 0 25,017 33,721 0 0 0 0 825 50		98		53,503	350	350	529 625	50,423	, 28	,73	09	4	.86
964 10,247 15,334 0 0 10,247 15,334 0 0 158 36 969 16,451 15,434 0 0 16,451 15,434 0 0 250 1,51 974 11,085 14,531 0 0 11,085 14,531 0 0 0 346 6 979 23,065 26,937 0 0 23,065 26,937 0 0 0 785 2	964 10,247 15,334 0 0 10,247 15,334 0 0 158 36 969 16,451 15,434 0 0 16,451 15,434 0 0 0 250 1,51 974 11,085 14,531 0 0 11,085 14,531 0 0 0 346 6 979 23,065 26,937 0 0 23,065 26,937 0 0 0 785 2 984 25,017 33,721 0 0 25,017 33,721 0 0 0 825 50	REAGAN	95	2,620	4,270	0	0	9	2	0	0	0	0 %	150
969 16,451 15,434 0 0 16,451 15,434 0 0 0 250 1,51 974 11,085 14,531 0 0 11,085 14,531 0 0 0 346 6 979 23,065 26,937 0 0 23,065 26,937 0 0 0 785 2	969 16,451 15,434 0 0 16,451 15,434 0 0 250 1,51 974 11,085 14,531 0 0 11,085 14,531 0 0 0 346 6 979 23,065 26,937 0 0 23,065 26,937 0 0 0 785 2 984 25,017 33,721 0 0 25,017 33,721 0 0 0 825 50		96	10,247	15,334	0	0	0,2	M	0	0	0	158	360
974 11,085 14,531 0 0 11,085 14,531 0 0 0 346 6 979 23,065 26,937 0 0 0 0 785 2	974 11,085 14,531 0 0 11,085 14,531 0 0 0 346 6 979 23,065 26,937 0 0 0 0 785 2 984 25,017 33,721 0 0 0 825 50		96	16,451	15,434	0	0	9 4 9	3	0	0	0	250	.51
23,065 25,937 0 0 23,065 26,937 0 0 0 785 2	979 23,065 26,937 0 0 23,065 26,937 0 0 0 785 2 984 25,017 33,721 0 0 25,017 33,721 0 0 0 825 50		16	11,085	14,531	0	0	1,0	5	0	0	0	346	09
	4 25,017 33,721 0 0 25,017 33,721 0 0 0 825 50		16	23,065	26,937	0	0	3.0	6.	0	0	0	785	2.7

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
REAL	1958	900		000	1 000				12	_		
REAL	1958		1,090	900	1,090	0	0	0	0	0	0	200
	1969	1,410	1,066 725	1,410	1,066	0	0	0	0	0	0	700
	1974	885	941	1,035	725 941	0	0	0	0	0	0	805
	1979	455	232	455	232	0	0	0	0	0	0	700
	1984	243	348	243	348	0	0		0	0	0	326
		2,13	340	243	340	U	U	0	0	0	0	201
RED RIVER	1958	450	184	0	0	0	0	450	184	37	6	87
	1964	733	300	135	62	40	13	558	225	37	7	100
	1969	651	326	265	142	186	94	200	100	20	16	445
	1974	80	40	D	0	80	40	0	0	0	16	80
	1979	1,080	367	1,000	333	80	33	0	0	D	4	1,080
	1984	375	613	375	613	D	0	0	0	D	7	205
REEVES	1958	96,000	368,568	11,000	33,400	85,000	335,168	0	0	D	850	0
	1964	118,200	414,217	7,200	12,200	111,000	402,017	0	0	0	975	٥
	1969	82.035	334,392	100	333	74,558	310,192	7,377	23,867	28	1,010	640
	1974	78,170	319,785	80	317	68,993	286,856	9,097	32,612	50	995	1.100
	1979	36,502	127,469	245	613	28,614	105,103	7,643	21,754	80	975	11,370
	1984	27,061	89,688	0	0	20,725	63,226	6,336	26,463	50	935	7,774
REFUGIO	1958	450	271			4.55	1.9					
NET BOT 0	1964	650 890	271 498	25	0	650	271	0	0	0	1	400
	1969	0	0	0	17	650	338	215	143	20	3	215
	1974	0	D	0	0	0	0	0	0	0	3	0
	1979	0	0	0	0	0		0	0	0	2	0
	1984	50	17	0	0	50	17	0	0	0	2	0
							•	-			-	3
ROBERTS	1958	3,320	4,602	0	0	3,320	4,602	0	0	0	15	60
	1964	6,330	8,348	0	0	6.330	8,348	0	0	0	25	350
	1969	9,160	8,810	0	0	9,160	8,810	0	0	0	55	1.096
	1974	9,551	13,518	0	0	9,551	13,518	0	0	0	56	1,526
	1979	11,634	14,184	0	0	11,634	14,184	0	O	0	58	3,230
	1984	8,436	5,204	0	0	8,436	5,204	0	0	0	36	2.852
ROBERTSON	1958	34,910	26,897	5,695	4.918	28,515	21,429	700	550	50	421	400
	1964	41,315	39,008	5,770	6,461	34,385	31,391	1,160	1,156	51	421	870
	1969	23,415	19,741	4 +650	3,342	17,715	15,474	1,050	925	50	440	630
	1974	22,295	20,064	4,150	3,592	17,095	15,547	1,050	925	50	450	675
	1979	19,740	19,591	2,200	1,646	17,540	12,945	0	0	0	451	355
	1984	18,938	18,534	2,538	2,484	16,400	16,050	o	0	0	400	333
							d hits	CONTRA		1167	20110K	2471542

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	CE-WATER PLIED TARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE - PERCENT	NUMBER	ACRES
ROCKWALL	1958	D	0	O	0	۵	0	0	0	0	0	0
	1964	15	22	15	22	0	0	0	0	0	0	15
	1959	0	0	0	0	0	0	0	0	0	0	0
	1974	D	0	0	0	0	0	0	0	0	0	0
	1979	0	0	0	0	0	0	0	0	0	0	0
	1984	0	0	0	0	0	0	0	а	0	0	0
RUNNELS	1958	2,713	3,768	2,593	3,578	100	150	20	40	50	3	a
	1964	3,524	6,042	3,108	5,412	326	495	90	135	50	14	216
	1969	3,502	5,743	2,851	4,895	561	778	90	70	50	25	428
	1974	5,592	7,836	4,510	6,614	989	1,122	93	100	37	54	2,175
	1979	5,498	6,466	4,030	4,837	1,138	1.264	330	365	60	83	2,508
	1984	3,049	3,887	1,942	2.578	749	871	358	438	60	95	1,225
RUSK	1958	295	130	275	120	20	10	0	0	0	1	295
	1964	305	121	235	89	20	7	50	2.5	24	2	180
	1969	150	41	150	4 1	0	0	0	0	0	1	150
	1974	2	1	2	1	0	0	0	0	0	1	2
	1979	10	3	5	2	5	1	0	0	0	1	7
	1984	47	87	27	54	20	33	0	0	0	1	27
SABINE	1958	0	0	0	0	٥	0	0	0	0	0	0
	1964	0	0	0	0	0	a	0	0	0	0	0
	1969	0	0	0	0	0	0	0	0	D	0	0
	1974	0	0	0	0	0	0	0	0	0	0	0
	1979	0	0	0	0	0	0	0	0	0	0	٥
	1984	0	0	0	0	0	0	0	0	0	0	a
SAN AUGUSTINE		٥	0	0	О	0	0	0	0	0	0	0
	1964	0	0	0	0	0	0	0	0	0	0	G
	1969	0	0	0	0	0	0	0	0	0	0	0
	1974	0	0	0	0	0	0	0	0	0	0	0
	1979	0	0	0	0	0	0	0	0	0	0	0
	1984	0	0	0	0	0	0	0	0	0	0	0
SAN JACINTO	1958	0	0	0	0	٥	0	0	0	0	0	0
	1964	0	0	0	0	C	0	0	0		0	۵
	1969	0	0	0	0	0	0	ō	0		0	0
	1974	0	0	0	0	ū	0	0	0	77	0	0
	1979	0	0	0	D	0	Ö	Ö	0		2	0
	1984	0	0	0	0	0	0	0	0		ū	0
			1100				F 163		124 m 2 mg	_	CHILDS	0 KP 1 x m 2

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	ACE-WATER PPLIED TARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE -	NUMBER	ACRES
	1	110	none / cc/		HONE (LEC)	Henes	ACKE I CEI	ACKES	FEET	PERCENT	NOTIBER	ACRES
SAN PATRICIO	1958	17,000	20.785	0	0	17,000	20.785	0	0	D	79	(2)
3HH 1 H 1 H 2 C 2 C	1964	19,960	8,840	400	400	19,560	8,440	0	0		87	0
	1969	13,839	6,253	205	156	13,634	6,097	0	0		96	200
	1974	10,730	5,986	90	60	10,640	5,926	0	0		98	0
	1979	2,123	1,375	94	94	2,029	1,281	0	0		100	94
	1984	6,428	3,555	40	13	6,388	3,542	0	0		100	54
SAN SABA	1958	2,970	4,716	2,610	4,213	360	503	0	0	0	6	35
	1964	4,564	7,642	3,759	6,355	805	1,287	0	0	0	16	935
	1969	5,830	5,564	5,295	4,979	5 3 5	585	0	0	0	16	1.075
	1974	8,063	11,018	6,748	9,385	1,315	1,633	0	0	0	19	1.230
	1979	5,763	5,111	4,603	4,455	1.160	657	0	0	0	24	895
	1984	7,168	6,351	5,838	5,425	1,330	926	0	0	0	30	2,336
SCHLEICHER	1958	2,577	4,635	166	135	2,411	4,500	0	0	0	26	0
	1964	4,118	7,766	82	143	4.036	7,623	0	0	1556	53	795
	1969	4,502	4,951	122	164	4,380	4.787	0	0	_	79	998
	1974	2,589	2,006	82	55	2,507	1,951	0	0		77	615
	1979	1,183	793	0	0	1,183	793	0	0		42	491
	1984	1,017	1,438	0	a	1,017	1,438	0	O	-	45	304
SCURRY	1958	2,656	1,331	0	0	2,656	1,331	0	0	0	26	2,656
	1964	3,150	1,728	0	0	3,150	1,728	0	0	O	70	3.150
	1969	5,694	3,323	0	0	5,494	3,223	200	100	80	145	4.364
	1974	5,610	5,943	0	0	5,610	5,943	0	D	0	150	4,450
	1979	4,565	5,532	350	917	4,215	4,615	0	0	0	155	3,755
	1984	3,952	3,952	330	633	3,622	3,319	0	0	0	150	3,552
SHACKELFORD	1958	0	0	0	0	0	0	0	0		0	0
	1964	144	118	144	118	0	D	0	0		2	132
	1969	293	673	293	673	0	0	0	0		0	218
	1974	320	366	300	341	20	25	0	0	1	3	305
	1979	388	361	142	138	246	223	0	0		8	388
	1984	397	259	273	178	124	8 1	0	0	0	8	397
SHELBY	1958	3	1	3	1	ū	0	0	0	О	0	0
	1964	0	Ō	0	C	۵	o o	0	0		0	0
	1959	0	C	0	0	0	0	0	0		0	0
	1974	0	0	0	0	0	0	o	0		0	0
	1979	0	0	0	0	0	0	ū	D		0	o
	1984	40	13	-	8	10	5	0	0		1	0
						-	CEED		rid mi		es Lide	237 (0)

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	ACE-WATER PPLIED TARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
SHERMAN	1958	50,000	60,200	0	0	50,000	60,200	0	0	0	200	0
	1964	137,200	182,000	0	0	137,200	182,000	0	0		690	900
	1969	252,578	284,537	0	0	252.578	284.537	0	0		1.018	12,220
	1974	273,651	330,277	0	0	273,171	329.857	480	420	_	1.190	21.650
	1979	231,000	268,267	0	0	230,300	267,417	700	850		1,357	57.735
	1984	140,200	225,833	0	0	140,200	225,833	0	0		1,200	43,830
											1,100	134030
SMITH	1958	780	169	390	65	390	104	0	0	0	7	780
	1964	850	466	310	192	100	33	440	241	64	7	850
	1969	1,545	566	795	316	0	0	750	250	50	7	1.210
	1974	700	267	400	167	0	0	300	100	50	7	700
	1979	595	226	195	93	0	0	400	133	75	7	580
	1984	784	1,959	784	1,959	0	0	0	0	0	7	710
COMEDNEL			Viges	120	220.00							
SOMERVELL	1958	195	190	130	147	65	43	0	0	0	3	130
	1964	211	204	196	196	15	8	0	0	0	4	211
	1969	524	338	524	338	۵	0	0	0	0	5	501
	1974	478	180	420	127	58	53	0	D		4	458
	1979	715	484	450	267	265	218	0	0		7	715
	1984	652	787	374	266	278	521	0	0	0	7	652
STARR	1958	35,441	41.097	35.141	40.863	300				0.		
740 5 6 17 6 77	1964	33,450	47,367	200	342	250	234	0	0		3	300
	1969	32,500	44,421	200	0	250	125	33,000	46,900		202	750
	1974	25,576	26,155	25,576	26,155	0	0	32,500	44,421	75	40	0
	1979	25.576	25,909	25.576	25,909	0	3	0	0		25	0
	1984	25,751	30,777	25,251	30,277	500	500	0	0		10	0
		204.01	301,11	23,231	30,217	300	500	U	U	u	16	400
STEPHENS	1958	388	259	358	241	30	18	а	0	0	1	135
	1964	458	517	356	364	42	84	60	69		3	105
	1969	1,169	1.479	1.078	1.343	0	0	91	136		1	908
	1974	855	855	765	765	0	0	90	90		1	825
	1979	1,157	876	997	781	0	0	160	95		4	797
	1984	1,279	932	1,169	882	40	27	70	23		5	1,169
												.,
STERLING	1958	215	224	0	0	145	163	70	61	20	8	a
	1964	1,356	2,336	0	0	1.099	1,819	257	517	20	36	1.027
	1969	2,081	4,824	95	190	1.986	4 . 6 3 4	0	0	0	52	368
	1974	2,252	4,169	0	0	2.252	4.169	0	0	0	56	2,227
	1979	633	1,468	0	0	633	1.468	0	0	0	63	633
	1984	505	1,206	0	0	505	1,206	0	D	D	63	499

TABLE TO STORY TO THE CONTRACT OF THE CONTRACT

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUF	ACE-WATER PPLIED TARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
STONEWALL	1958	0	0	0	0	0	0	0	0	0	0	D
	1964	2,115	3,004	0	O	2,115	3,004	0	0		50	965
	1969	1,480	1,515	0	0	1,480	1,515	0	0	0	50	1.300
	1974	425	663	20	30	405	633	0	0		32	370
	1979	208	236	0	0	208	236	0	D	0	30	76
	1984	272	179	0	0	272	179	0	0	0	22	272
SUTTON	1958	407	544	167	237	240	307	0	0	0	6	280
	1964	666	1,483	96	237	5 70	1.246	0	0	0	9	260
	1969	1,177	2,899	168	350	1,009	2,549	0	0	0	17	633
	1974	989	1,721	112	212	877	1,509	0	0	0	17	445
	1979	569	826	124	196	445	630	0	0	0	17	236
	1984	617	937	91	143	526	794	0	0	0	17	278
SWISHER	1958	319,200	265,026	0	D	319,200	265,026	0	0	0	2,630	a
	1964	279,012	471,623	0	0	279.012	471.623	0	0		3,608	1.160
	1969	249,700	369,637	0	0	245,840	363,920	3.860	5,717	41	4.596	1.500
	1974	316,800	474,878	0	0	316,800	474.878	0	0		4.600	3.500
	1979	132,624	157,952	0	0	132,624	157,952	0	0	0	4.900	8 • 500
	1984	125,425	150,758	0	0	125,425	150.758	0	0	0	3,800	11,220
TARRANT	1958	2.020	1,124	1,420	857	600	267	D	0	0	35	1,365
	1964	2,160	1,667	1,560	1,169	0	0	600	498	50	15	2.020
	1969	550	950	550	950	0	0	0	0	0	10	300
	1974	400	800	400	800	0	D	0	0	0	10	150
	1979	266	219	181	181	0	0	85	38	25	10	219
	1984	127	107	127	107	0	0	0	0	0	10	15
TAYLOR	1958	1,371	2,452	40	53	1,331	2,399	0	0	D	49	817
	1964	2,221	2,459	325	502	1,896	1,957	0	0		107	1.714
	1969	1,306	1,581	611	798	605	508	90	275	90	125	370
	1974	3,040	3,433	150	155	2,890	3,278	0	0	0	98	1,090
	1979	1,638	936	505	253	1,133	683	0	0		100	1.093
	1984	1,340	753	345	173	995	581	0	0		90	900
TERRELL	1958	111	501	111	501	0	0	0	0	0	0	56
	1964	207	1,035	207	1,035	0	ū	Ö	0	Ö	Ö	56
	1969	277	1,250	40	200	237	1,050	0	0	0	2	0
	1974	106	257	0	0	106	257	0	0	0	3	0
	1979	194	565	38	76	156	489	0	0	0	6	54
	1984	166	242	0	0	166	242	0	0	0	7	0
				V111					efelir dinesi		EVALUA	d hall be well
							-0.01100					

COUNTY			RRIGATION ARM USE)	SUF	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
TERRY	1958 1964 1969 1974 1979	136.034 130.000 169.700 173.230 166.336	135,586 170,313 58,057 145,570 57,712	0 0	0 0 0	136,034 130,000 169,500 173,030 166,136	135,586 170,313 57,897 145,410 57,645	0 200 200 200	0 160 160 67	0 50 50 50	1.125 1.550 1.630 1.700	136.034 130.000 168.670 172.240 165.330
THROCK MORTON	1958 1964 1969 1974 1979 1984	146,799 0 65 0 85	66,119 0 48 0 42	0 65 0 30 0	0 48 0 15	146,449 0 0 55 0	65,244 0 0 27 0	35 0 0 0 0 0	875 0 0 0 0	0 0 0	2,650 0 0 6 1 1	146,494 0 65 0 55
†ITUS	1958 1964 1969 1974 1979	115 C D D	4 0 0 0 0	110 0 0 0 0	38 0 0 0	0 0 0 0	0 0	5 0 0 0	2 0 0 0 0	0	2 2 1 1 0	115 0 0 0 0
TOM GREEN	1958 1964 1969 1974 1979	10,775 16,858 13,820 26,316 30,560 33,600	12,415 28,551 13,464 23,449 50,495 49,085	5,324 4,694 5,463 12,773 15,900 7,100	6,746 10,139 6,715 12,476 33,188 17,938	4,511 11,414 8,257 10,923 13,500 26,500	4,582 17,065 6,604 8,306 15,880 31,146	940 750 100 2,620 1,160	1.087 1.347 145 2.667 1.427	61 80 66 66	88 241 248 318 525 800	108 1,055 1,982 2,843 2,500 3,950
TRAVIS	1958 1964 1969 1974 1979	1,430 1,270 2,604 1,256 260 1,090	1,254 1,002 1,685 978 170 1,354	1,105 995 2,337 1,036 40 670	980 814 1,510 804 40 1,008	325 275 267 100 100 300	274 188 175 74 50 267	0 0 120 120 120	0 0 0 100 80 80	0 0 70 70	9 11 9 5 5	525 378 1.737 1.023 260 1.090
TRINITY	1958 1964 1969 1974 1979	5 D D D D D	8 0 0 0	0	0 0 0 0 0 0 0 0	50 0 0 0	8 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0	1 1 1 0 0	50 0 0 0

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY		ON-FI	ALL IRRIGATION (ON-FARM USE)	SURFACE	SURFACE-WATER SUPPLIED (ON-FARM USE)	GROUNE	GROUND-WATER Supplied	COMB	IRRIGATION USING COMBINED SUPPLIE	SING	IRRI- GATION WELLS	SPRINKLER
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
TYLER	1958 1964 1969 1974 1979	13 0 84 35 35 39	5 0 8 9 0	1 0 68 35 35	4 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 15 0 0	100	* O = O	0000	50 25 0 0	3 2 1 1 2	35 35 35 35
UPSHUR	1958 1954 1969 1974 1979	100111111111111111111111111111111111111	00 3 7 00	14	0 0 0 0 0 0 0 0	00000	00000	000000	00200	00000	2 2 3 1 1 2 2 3	0 0 0 7 0 0
UP TON	1958 1964 1974 1974 1978 1964 1969	550 5,676 6,486 14,002 12,067 13,945 21,379 35,596	698 2,594 5,438 9,015 17,493 15,235 18,030 33,939 49,402	420 00 1,100 1,290		550 2,810 5,676 6,486 14,002 12,067 12,625 20,254 34,496 38,122	698 3,594 5,438 9,015 17,493 15,235 17,051 33,327 48,523	900	571 1,367	8 2 1	33 80 130 1428 460 137 137 245 285	2,666 2,666 2,05 2,05 39 40 40 40 2,58
VAL VERDE	1984 1958 1969 1979 1979	2,200 1,300 1,575 1,095 870 1,022	151,774 2,369 2,174 2,342 1,745 1,350 2,348	1,750 1,750 1,30 8,20 6,20	1,890 2,005 0 0 1,187 1,130 1,612	255912 48,420 2,200 1,300 1,445 275 250 402	74,215 146,560 2,369 2,174 2,115 401 736	1,200	2*000 3*208 0 0		305 319 10 14 5 8 8 12 20	12,261 15,348 140 0 130 25 25 230 90
VAN ZANDT	1958 1964 1969 1974 1979	330 575 311 0	130 257 117 0	240 505 311 0	88 224 117 0 0	0.000	42 33 0 0 0	000000	00000	00000		330 575 311 0

SURFACE -WATER

COUNTY

ALL IRRIGATION

TABLE 1 .-- IRRIGATION SUMMARY FOR COUNTIES. 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

C OU NT Y			RRIGATION ARM USE)	SUF	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
WHARTON	1958	67,630	167,185	20,550	54,829	44,580	110,506	2,500	1,850	20	350	0
	1964	71,040	146,598	16,510	38,533	54,530	108,065	0	0	0	421	0
	1969	82,253	239,068	15,205	48,770	67,048	190,298	0	0	0	420	0
	1974	89,848	255,226	19,910	59,730	63,408	175,906	6,530	19,590	80	438	480
	1979	85,175	163,195	26,160	56,180	47,415	84,265	11,600	22,750	61	443	1,425
	1984	83,700	268,953	22,770	91,832	53,030	147,496	7,900	29,625	62	430	4,360
WHEELER	1958	1,150	1,543	40	50	1,110	1,493	0	0	0	14	810
	1964	3,860	4,780	220	350	3,640	4,430	0	0	0	40	3.360
	1969	4,310	3,085	310	235	4,000	2,850	0	0	0	60	3.730
	1974	8,030	10,378	350	293	7,590	9,995	90	90	20	90	7,710
	1979	13,035	7,788	0	0	13,035	7,788	0	0	0	200	13,035
	1984	4,438	4,145	100	67	4,338	4,078	0	0	0	190	4,438
WICHITA	1958	10,790	24,445	10,790	24,445	0	0	0	0	0	0	O
	1964	18,007	25,807	18,007	25,807	0	0	0	0		0	0
	1969	19,610	28,138	19,460	27,888	150	250	0	0		2	150
	1974	20,150	29,038	20,000	28,788	150	250	0	0		2	150
	1979	20,941	27,517	20,941	27,517	0	0	0	0		2	0
	1984	17,230	62,772	17,230	62,772	0	0	0	0	0	2	120
WILBARGER	1958	6,285	5,735	۵	0	6,285	5,735	0	0	777	153	5 • 6 3 3
	1964	10,175	11,325	1,775	1,942	8,400	9,383	0	0		180	8,575
	1969	11,156	12,106	1,776	1,732	9,380	10,374	0	0	-	380	9,756
	1974	11,510	17,433	1,550	1,700	9,960	15,733	0	0		650	10,110
	1979	14,575	24,793	875	768	13,700	24,025	0	0		497	13,860
	1984	13,190	27,437	710	917	12,480	26,520	0	0	0	540	12.842
WILLACY	1958	31,400	49,084	31,100	48,717	0	а	300	367	90	6	1.700
	1964	36,500	58,992	36,500	58,992	0	0	0	0	0	0	400
	1969	37,723	49,268	37,723	49,268	0	0	0	0		0	0
	1974	37,723	53,896	37,723	53,896	0	. 0	0	0	(200	- 0	0
	1979	37,723	28,112	37,723	28,112	0	0	0	0		0	0
	1984	37,235	54,235	37,235	54,235	0	0	0	0	0	0	0
WILLIAMSON	1958	164	129	154	121	10	8	0	0		5	124
	1964	249	214	239	207	10	7	0	0		1	209
	1969	653	572	653	572	0	C - C	0	0		1	653
	1974	348	267	328	237	20	30	0	0		3	328
	1979	80	60	70	47	10	13	0	G		4	80
	1984	88	1 36		134	21	2	0	0	0	1.5	67

TABLE IN-LERIESTED SUPERING THE COMMISSION INCH. 1984, 1984, 1984, 1984, 1984, AND IND-CONTINUED

TABLE 1.--IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUP	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION U INED SUP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
÷	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE - PERCENT	NUMBER	ACRES
WILSON	1958	10,190	14,857	2,390	3,036	7,800	11,821	0	0	0	32	7 . 800
	1964	18,491	15,519	4,000	3,346	14,491	12,173	0	0	D	84	12,931
	1969	16,618	13,669	1,845	877	11,695	10.821	3,078	1,971	10	190	14,839
	1974	19,621	17,707	2,890	2,848	15,587	13,750	1,144	1.109	3	220	17,676
	1979	8 . 117	6,388	120	80	7,997	6.308	0	0	0	230	7.987
	1984	12,051	8,395	1,707	1,146	10,164	7,116	180	133	28	240	11,863
WINKLER	1958	530	934	0	0	530	934	0	0	0	4	530
	1964	470	1,664	0	0	470	1.664	0	0	0	- 3	470
	1969	1,360	5,382	0	0	1,360	5,382	0	0	0	12	1.320
	1974	1,843	3,466	0	0	1,843	3,466	0	0	0	12	1.803
	1979	1,240	4.797	0	0	1,240	4,797	0	0	0	12	1.240
	1984	240	360	0	0	240	360	0	0	0	12	240
WISE	1958	D	0	0	0	0	. 0	0	0	0	0	0
	1964	491	269	463	255	28	14	0	0	0	3	491
	1969	525	324	525	324	0	0	0	0	a	4	525
	1974	1,515	757	1,115	557	400	200	n	0	Ö	5	1.515
	1979	1,070	535	960	480	110	55	o o	o	0	5	1.070
	1984	1,170	585	940	470	230	115	0	0	D	7	1.170
WOOD	1958	213	95	203	8 9	10	6	0	0	0	3	203
	1964	360	189	230	124	0	0	130	65	50	4	360
	1969	460	160	450	155	10	5	0	0	0	3	460
	1974	50	13	40	10	10	3	Ö	0	0	3	50
	1979	0	0	0	0	0	o o	ū	0	0	3	0
	1984	412	680	120	113	110	275	182	292	35	4	402
YOAKUM	1958	38,370	67.910	О	0	38.370	67,910	0	0	D	421	34 - 144
	1964	68,500	61,825	0	0	68,500	61.825	- 0	0	a	1.030	57.800
	1969	88,740	74,295	0	0	88,740	74,295	0	0	0	1,100	88.740
	1974	102,340	138,651	0	0	102,340	138,651	0	0	0	1,127	101.540
	1979	121,910	122,912	0	0	121,910	122.912	0	0	0	1,200	121.310
	1984	100,427	61,515	0	0	100,427	61,515	0	0	O	1,230	99,797
YOUNG	1958	- 0	0	0	0	٥	0	0	0	0	0	
	1964	292	213	222	120	70	93	0	0	0	3	292
	1969	453	261	322	178	131	83	0	0	0	4	326
	1974	774	337	460	169	314	168	0	0	0	10	774
	1979	5	1	0	0	5	1 1 1	0	0	0	13	5
	1984	575	228	115	5.8	460	171	0	٥	0	6	555
			DW SCRIP				***	J	U	U	0	

THE A " -- Tentrality country and fine last to a love love large law land and law towns and the contract town

TABLE 1 .-- IRRIGATION SUMMARY FOR COUNTIES, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

COUNTY			RRIGATION ARM USE)	SUP	CE-WATER PLIED ARM USE)		D-WATER PLIED		GATION US INED SUPP		IRRI- GATION WELLS	SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	NUMBER	ACRES
ZAPATA	1958	8,339	12,985	8,339	12,985	D	0	0	0	0	0	۵
	1964	4,100	8,300	4,100	8,300	0	0	0	0	0	0	300
	1969	6,738	8,756	6,738	8,756	0	0	0	0	0	0	0
	1974	4,134	4,588	4,134	4,588	0	0	0	0	0	0	0
	1979	3,691	4,199	3,691	4,199	0	0	0	0	0	O	1,130
	1984	3,286	3,300	3,286	3,300	0	0	0	0	0	D	684
ZAVALA	1958	82,400	89,247	1,700	2,025	70,700	76,514	10,000	10,708	50	364	3,300
	1964	138,652	271,938	1,500	2,400	119,852	232,739	17,300	36,799	30	536	4,059
	1969	108,656	195,361	1,683	2,104	91,673	169,419	15,300	23,838	94	540	4.200
	1974	81,382	146,315	1,183	1,479	64,899	114,723	15,300	30.113	94	550	4,000
	1979	85,510	146,793	1,363	1,704	68,847	118,700	15,300	26,389	93	565	8,184
	1984	57,776	95,144	1,185	658	49,091	81.777	7,500	12,708	30	550	6,780
STATE TOTALS	1958	6,723,614	9,605,605	1,126,521	2,170,313	5,387,663	6,946,620	209,430	488,672	73	55,473	667,678
	1964	7,706,881	12,509,652	1,184,961	1,992,067	6,235,614	9,989,649	286,306	527,936	38	70,565	1,076,729
	1969	8,206,249	11,569,024	1,267,607	2,352,335	6,648,553	8,622,041	290,089	594,648	78	83,115	1,548,002
	1974	8,618,054	13,082,262	1,272,397	2,186,062	7,089,624	10,279,992	256,033	616,208	80	90,469	1,814,293
	1979	7,817,681	9,723,403	1,248,855	1,850,222	5,885,102	6,924,044	683,724	949,153	60	95,217	2,197,001
	1984	6,752,625	9,342,950	1,093,158	2,055,844	5,415,859	6,790,592	243,608	496,526	78	100,275	2,140,598

BASIN AND ZONE			RRIGATION ARM USE)	SUP	CE-WATER PLIED ARM USE)		D-WATER PLIED		TION USING ED SUPPLIES		SPRINKLER SYSTEMS
										SURFAC	E
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES		SOURCE PERCEN	
CANADIAN											
ZONE 1	1958	256,885	292,863	20	15	256,865	292,848	0	0	0	980
	1964	517,470	682.640	55	6.3	517,415	682,577	0	ō	0	7.295
	1969	922,400	1,115,201	0	0	922,100	1,115,051	300	150	30	36,642
	1974	1,024,307	1,449,662	- 0	0	1,022,467	1,447,704	1,840	1,958	20	72,113
	1979	1,055,763	1,363,892	0	ū	1,054,123	1,362,252	1,640	1,640	25	162.285
	1984	782,996	1,105,708	0	0	782,696	1,105,558	300	150	20	173,255
Z0 NE 2	1958	99,023	108,116	0	0	99,023	108,116	D	0	0	600
	1964	160,998	236,812	0	0	160,998	236,812	0	0	0	12,443
	1969	286,564	347,019	0	0	286,564	347,019	0	0	0	51,027
	1974	331,629	466,172	0	0	331,429	465,989	200	183	20	102,373
	1979	390,823	512,294	D	۵	390,103	511,230	720	1,064	63	164,731
	1984	343,978	419,621	0	0	343,138	418,374	840	1 .247	65	218,319
BASIN TOTAL	1958	355,908	400.979	20	15	355,888	400 • 964	0	a	0	1,580
	1964	678,468	919,452	55	63	678,413	919,389	Ö	0	0	19.738
	1969	1,208,964	1,462,220	0	0	1,208,664	1,462,070	300	150		87,66
	1974	1,355,936	1,915,834	0	0	1,353,896	1.913.693	2.040	2,141	20	174.486
	1979	1,446,586	1,876,186	0	0	1,444,226	1,873,482	2,360	2,704	40	327,01
	1984	1,126,974	1,525,329	0	0	1,125,834	1,523,932	1,140	1,397	60	391,57
RED											
ZONE 1	1958	1,036,783	1,184,866	0	0	1,036,783	1,184,866	0	0	a	1,41
	1964	1,066,445	1,683,909	0	0	1.065,665	1,682,694	780	1,215	35	12,280
	1969	996,172	1,465,122	0	0	991,022	1,457,894	5,150	7,228	45	14,64
	1974	1,108,689	1,638,513	160	244	1,107,239	1,636,753	1,290	1,516	64	33,74
	1979	892,707	1,011,129	350	325	888,547	1,005,317	3,810	5,487	64	69,356
	1984	716,015	742,067	350	350	711,205	735,318	4,460	6,399	64	58,93
ZONE 2	1958	238,264	208.317	40	50	238,224	208,267	0	0		40,50
	1964	293,011	337,693	780	821	292,231	336,872	0	0		50,725
	1969	295,639	331,398	1,456	1,444	294,183	329,954	0	0	0	65,716
	1974	317,883	370,317	1,377	1,735	316,416	368,492	90	90	20	80,929
	1979	255,944	219,589	772	601	247,923	212,705	7,249	6.283		85.354
	1984	228,991	211,977	2,046	1,383	217,325	205,782	9,620	4,812	50	74,141
ZONE 3	1958	12,701	26,554	11,290	24,812	1,411	1,742	0	0	0	C
	1964	36,158	45,191	20,037	28,319	16,121	16,872	0	۵	0	10,611
	1969	31,573	38,917	22,230	30,440	9,343	8,477	0	EO PARECTO	0	4 . 130
	1974	34,450	39,858	22,982	31,678	11,408	8,125		1104 55	50	5,442
	1979	26,818	31,760	22,141	28,491	4,407	3,140	270	129	55	2.174
	1984	21,946	67,088	18,340	63,914	3,353	2,802	253	372	16	3,169

TABLE 2.--IRRIGATION SUMMARY FOR RIVER AND COASTAL BASINS, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

BASIN AND ZONE			RRIGATION ARM USE)	SUF	ACE-WATER PPLIED FARM USE)		D-WATER PLIED		ION USING D SUPPLIES		SPRINKLER SYSTEMS
										SURFAC	E .
	YEAR	ACRES	ACRE-FEE T	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SOURCE	- ACRES
									FEET	PERCEN	T
RED CONTINUED											
NEO CONTINUES											
ZONE 4	1958	6,183	5 + 225	5,050	4.094	573	382	560	749	48	2,562
	1964	5,753	6,118	3,568	3,407	997	656	1,188	2,055	32	3,295
	1969	4,703	4,252	2,847	2,430	821	480	1.035	1,342	31	2,775
	1974	4,070	4.473	2.492	2,452	1.175	1.783	403	238	61	2.160
	1979	8.154	8,380	6,755	6,941	1,008	1,243	391	196	50	5.962
	1984	10.627	17,576	7,910	13,552	2,177	2,404	540	1,620	25	6.551
					,	-,	27.01	340	1,020	23	0 + 221
PASIN TOTAL	1958	1,293,931	1,424,962	16,380	20 054	1 27/ 001	1 705 257	51.5	71.0		
C. 32.11 01.11	1964	1,401,367	2,072,911	24,385	28,956	1,276,991	1,395,257	560	749	48	44,483
	1969	1,328,087	1,839,689		32,547	1,375,014	2,037,094	1,968	3,270	33	76,911
	1974	1,465,092	2,053,161	26,533	34,314	1,295,369	1,796,805	6,185	8 • 5 70	42	87,270
	1979	1,183,623		27,011	36,109	1,436,238	2.015.153	1,843	1,899	61	122,279
	1984	977,579	1,270,858	30,018	36,358	1,141,885	1,222,405	11,720	12,095	50	162,846
	1704	711,519	1,038,708	28,646	79,199	934,060	946,306	14,873	13,203	53	142,793
SULPHUR											
BASIN TOTAL	1958	882	376	527	201	105	33	250	142	33	682
	1964	640	308	228	120	154	80	258	108	40	207
	1969	486	240	245	129	41	11	200	100	20	286
	1974	0	. 0	0	0	D	0	0	0	0	0
	1979	250	63	250	63	0	0	0	0	0	0
	1984	1,607	4,236	1,607	4,236	0	0	ā	0	0	136
CYPRESS											
BASIN TOTAL	1958	7.76			2.0						
DA 31 N TOTAL	1964	339 928	131	224	84	0	0	115	47	50	309
	1969		407	463	227	0	0	465	180	33	928
	1974	981	556	801	444	50	25	130	87	64	981
		494	293	474	285	0	a	20	8	95	474
	1979 1984	275	85	275	85	0	0	0	0	0	275
	1984	650	909	35	51	160	395	455	463	45	590
SABINE											
ZONE 1	1958	158	46	143	41	15	5	0	0	o	158
	1964	430	240	420	236	10	4	0	0	0	430
	1969	243	92	243	92	0	0	0	0	0	
	1974	15	7	15	7	0	0	0	0	0	243
	1979	235	141	235	141	0	0		0	0	15 235
	1984	395	669	395	669	0	0	0	0	0	375

BASIN AND ZONE			RIGATION RM USE)	SUP	CE-WATER PLIED ARM USE)	GROUND)-WATER PLIED		ION USING D SUPPLIES		SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFAC	- ACRES
									FEET	PERCEN	1
SABINE CONTINUED											
ZONE 2	1958	1,085	321	625	191	460	130	0	0	0	1.067
	1964	1,478	750	628	310	180	71	670	369	53	1,477
	1969	1,984	722	1,188	450	46	22	750	250	50	1,984
	1974	695	269	369	161	26	8	300	100	50	695
	1979	433	149	28	13	5	3	400	133	75	430
	1984	486	769	234	399	70	78	182	292	35	406
ZO NE 3	1958	3	1	3	1	0	٥	٥	0	0	0
	1964	0	0	0	0	0	0	0	0	0	0
	1969	0	0	D	0	0	О	0	0	0	0
	1974	0	0	O	0	0	0	0	0	۵	. 0
	1984	30	0	30	8	0	0	0	0	0	0
	1704	30		30	В	0	0	0	0	0	0
ZONE 4	1958	4,920	7,863	3,949	6,438	901	1,397	70	28	79	190
	1964	5,097	14,471	4,154	12,462	933	2,002	10	7	50	10
	1969	4,240	10,012	3,145	7,862	1,065	2,130	30	20	25	30
	1974	4,229	9,747	3,145	7.862	1,059	1,868	25	17	25	25
	1979 1984	2,579	3,725	1,449	2,657	0	0	1.130	1,068	25	30
	1704	2,451	5,578	1,321	4 • 403	0	0	1,130	1.175	25	30
BASIN TOTAL	1958	6,166	8,231	4,720	6,671	1.376	1,532	70	20	70	
	1964	7,005	15,461	5,202	13,008	1,123	2,077	680	28 376	79 52	1,415
	1969	6,467	10.826	4,576	8,404	1,111	2,152	780	270	48	2,257
	1974	4,939	10,023	3,529	8,030	1,085	1.876	325	117	46	735
	1979	3,247	4,015	1,712	2,811	5	3	1,530	1,201	30	695
	1984	3,362	7,024	1,980	5,479	70	78	1,312	1,467	26	811
NECHES											
ZONE 1	1958	2,552	1,058	2,407	973	145	85	٥	0	0	2.476
	1964	2,103	859	1,920	788	163	68	20	3	50	1.978
	1969	2,184	973	2,146	936	36	36	2	ī	60	1,714
	1974	3,150	1,780	1,720	786	385	565	1.045	429	50	3,100
	1979	468	764	173	70	230	564	65	130	50	438
	1984	1,357	2,685	703	1,711	495	710	159	264	50	1.254
ZONE 2	1958	10,193	28,519	6,721	19,868	3,468	8,650	4	1	50	8
	1964	6,519	15,879	5,301	13,443	1,218	2,436	0	0	0	10
	1969	14,086	33,093	10,012	24,717	3,575	7,130	499	1.246	41	183
	1974	14,220	34,199	10.049	24,784	3,673	8,170	498	1,245	42	155
	1979	6,395	11,695	4,277	7,857	1,979	3,690	139	148	41	155
	1984.	4,828	15,652	3,965	13,593	763	1,992	100	67	25	225

TABLE 2.-- IRRIGATION SUMMARY FOR RIVER AND COASTAL BASINS, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

BASIN AND ZONE			RIGATION RM USE)	SUP	CE-WATER PLIED ARM USE)		-WATER LIED		ION USING D SUPPLIES		RINKLER YSTEMS
				2,0,00	222.				c	URFACE	
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	40056			
	TEAR	ACKES	ACRE-FEE I	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES		OURCE - ERCENT	ACRES
									LEE! P	ERCENI	
NECHES CONTINUED											
BASIN TOTAL	1958	12,745	29,577	9,128	20,841	3,613	8,735	4	1	50	2,484
	1964	8,622	16,738	7,221	14,231	1,381	2,504	20	3	50	1.988
	1969	16,270	34.066	12,158	25,653	3,611	7,166	501	1.247	41	1.897
	1974	17,370	35,979	11,769	25,570	4,058	8,735	1.543	1,674	44	3.255
	1979	6,863	12,459	4,450	7,927	2,209					
	1984	6,185	18,337				4.254	204	278	45	593
	1704	0,105	10,337	4,668	15,304	1,258	2,702	259	331	44	1,479
NECHES -TRINITY											
ZONE 1	1958	55,546	166,638	55,546	166,638	0	0	0	0	0	0
	1964	58,135	145,337	58,135	145,337	0	0	0	0	0	O
	1969	66,052	165,130	66.052	165,130	0	O	0	0	n	0
	1974	64,552	161,380	64,552	161,380	0	0	ū	0	0	o
	1979	62,088	105,823	62,088	105,823	0	0	0	0	0	a
	1984	30,558	106,728	30,558	106,728	0	0	0	0	0	222
		Control of the Control						· ·			
ZONE 2	1958	39,013	117,039	39,013	117,039	0	0	0	0	0	0
	1964	45,621	114,027	45,621	114.027	0	0	0	0	0	15
	1969	40,926	102,315	40,926	102,315	0	0	0	0	Ö	0
	1974	39,739	99,348	39,739	99,348	o	o o	0	0	0	ā
	1979	52,675	105,765	52,675	105,765	o	0	0	0	0	a
	1984	21,482	74,874	21,397	74,661	85	213	0	0	0	80
	1704	21,402	74,074	21,371	74,001	0.5	213	U	U	u	80
BASIN TOTAL	1958	94,559	2-7-177			1				7425	
BASIN TOTAL	1964	103,756	283,677	94,559	283,677	0	0	0	0	0	0
			259,364	103,756	259.364	0	a	0	0	0	15
	1969	106,978	267,445	106,978	267,445	0	0	0	0	0	0
	1974	104,291	260,728	104,291	260,728	0	0	0	0	0	0
	1979	114,763	211,588	114,763	211,588	0	0	0	0	0	0
	1984	52,040	181,602	51,955	181,389	85	213	0	0	0	302
TRINITY											
Z0 NE 1	1958	7,882	4,336	6,927	3,865	955	471				
A. T. 114	1964	6,461	3,811	4,951	2,871	460	291	0	649	0	5,192
	1969	3,556						1,050		59	5,529
	1974		2,782	3,109	2,487	447	295	0	0	0	3,031
		4,512	3,281	2,608	1,988	1,679	1,127	225	166	39	4.162
	1979	3,613	1,704	1,395	775	2,063	858	155	71	41	3,136
	1984	5,001	3,658	2,153	1,662	2,689	1,879	159	117	41	4,480

MYCL of Children's Program of the art of the program of the progra

91

TABLE 2.--IRRIGATION SUMMARY FOR RIVER AND COASTAL BASINS, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

BASIN AND ZONE			PRIGATION IRM USE)	SUP	CE-WATER PLIED ARM USE)		-WATER PLIED		ION USING D SUPPLIES		PRINKLER
									S	URFACE	
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES		OURCE -	ACRES
									FEET P	ERCENT	
TRINITYCONTINUED											
TATALL CONTINUES											
20 NE 2	1958	11,126	14,030	6,700	4,142	3,926	9,588	500	300	62	4.488
	1964	4,287	2,482	3,152	1.875	375	197	760	410	53	1,905
	1969	7,415	4,460	7,040	4,257	275	153	100	50	25	2.829
	1974	4,240	2,712	3,255	2,321	85	74	900	317	56	2.430
	1979	540	171	540	171	0	0	0	0	0	332
	1984	1,361	1,557	1,343	1,526	5	2	13	29	30	352
								(A) (A)	F-150		
ZONE 3	1958	8,454	25,362	6,048	18,144	2,406	7,218	0	0	0	0
	1964	23,120	55,963	15,770	39,425	7,350	16,538	0	0	0	0
	1969	34,635	81,950	24,585	61,463	9,275	18,550	775	1.937	50	0
	1974	35,045	82,975	24,995	62,488	9,275	18,550	775	1,937	50	0
	1979	20,436	47,825	15.628	37,433	3,257	6,514	1.551	3,878	50	0
	1984	23,431	75,962	19,197	65,533	2,427	5,911	1,807	4,518	58	0
BASIN TOTAL	1958	27,462	43,728	19,675	26,151	7,287	17,277	500	300	62	9,680
	1964	33,868	62,256	23,873	44,171	8,185	17,026	1,810	1,059	56	7.434
	1969	45,606	89,192	34.734	68,207	9,997	18,998	875	1,987	49	5,860
	1974	43,797	88,968	30,858	66,797	11,039	19,751	1.900	2,420	50	6.592
	1979	24,589	49,700	17,563	38,379	5,320	7.372	1,706	3,949	49	3,468
	1984	29,793	81,177	22,693	68,721	5,121	7,792	1,979	4,664	57	4,832
TRINITY-SAN JACINIO	0										
BASIN TOTAL	1958	11,673	35,019	3,888	11,664	4.851	14,553	2,934	8,802	75	0
	1964	12,790	30,701	7,170	17,925	5,620	12,776	0	0	0	0
	1969	12,226	32,236	9,176	25,111	1,000	2,000	2,050	5,125	50	0
	1974	12,682	32,605	9,632	25,480	1,000	2,000	2,050	5,125	50	0
	1979	12,468	30,062	6,957	16,953	1,434	2,916	4,077	10.193	50	347
	1984	12,452	32,242	3,950	13,060	7,362	16,332	1.140	2,850	50	2,220
SAN JACINTO											
ZONE 1	1958	15,929	41,420	60	40	15,869	41,380	0	0	0	320
	1964	17,312	36,939	120	24	17,192	36,915	0	0	0	490
	1969	16,275	42,215	233	574	15,742	40.891	300	750	50	681
	1974	22.082	53,820	0	0	21.782	53,070	300	750	50	50
	1979	11,872	22,659	0	0	9.858	17,943	2,014	4.716	50	1.058
	1984	6,718	15.051		0	6,718	15,051	0	0	0	100
				27984.8	KE - FAYER						

TABLE 2.--IRRIGATION SUMMARY FOR RIVER AND COASTAL BASINS, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

BASIN AND ZONE			RRIGATION ARM USE)	SUP	CE-WATER PLIED ARM USE)		D-WATER PLIED		ION USING D SUPPLIES		PRINKLER SYSTEMS
										SURFACE	
	YEAR		ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES		SOURCE -	
									FEET	PERCENT	
SAN JACINTOCONTIN	HED										
SAN GACINIO CONTIN	OLU										
ZONE Z	1958	29,160	80,934	1,050	3,150	28,110	77.784	0			
	1964	30,970	65,105	900	2.190	30,070	12. 1		0	_	50
	1969	37.280	107,205	1.590	5,432		62,915	0	0		0
	1974	27,212		The second secon		35,690	101,773	0	0		0
	1979		66,600	0	0	27,212	66,600	0	0	0.70	40
	1984	24,200	46,798	0	0	24,200	46,798	0	0	-	0
	ENAPOS-CIA	16,314	41,753	0	0	16,314	41,753	0	0	0	0
BASIN TOTAL	1958	45,089	122,354	1,110	3,190	43,979	119.164				
CH SIN TOTAL	1964	48,282	102,044	1,020				٥	0	-	370
	1969	53,555			2,214	47,262	99,830	0	0	_	490
	1974		149,420	1,823	6,006	51,432	142,664	300	750		681
		49,294	120,420	0	a	48,994	119,670	300	750		90
	1979	36,072	69,457	0	۵	34,058	64,741	2,014	4,716	50	1,058
	1984	23,032	56,804	0	0	23.032	56,804	0	0	0	100
SAN JACINTO-BRAZOS											
SAN GREINIG BRAZOS											
BASIN TOTAL	1958	59,595	199,897	50,650	175.800	7,845	20.247	1.100	3.850	20	200
	1964	70.350	168,383	62,090	151,965	7,360	14,393	900	2,025	25	150
	1969	74,211	232,544	63,721	205,990	8,990	21,929	1,500	4,625		
	1974	64,924	171,430	57,074	152,463	5,800	13,500	2,050			0
	1979	73,219	157.790	68,563	148,754	3,520	6,669		5,467	50	
	1984	44.588	140,721	40,054	127,824	3,480	9.735	1,136	2,367		200
		,500	1101121	10,051	1214024	3,400	7,133	1,054	3,162	60	680
BRAZOS											
ZONE 1	1958	2,488,870	2,823,402	0	0	2,488,870	2,823,402				71. 01.1
-	1964	2,544,792	4,100,554	50	88	2,544.742		0	0		74,961
	1969	2,427,465	2,918,843	1,401			4,100,466	0		100	166.675
	1974	2,546,465	3,639,406		1,100	2,424,564	2,915,960	1,500	1,783		332,714
	1979	2,040,029	1,998,122	621	534	2,538,409	3,627,016	7,435	11,856		391,310
	1984	1,961,045		851	452	1,603,088	1,588,270	436.090	409,400	30	528,325
	1704	1,701,045	2,260,654	463	230	1,924,268	2,230,358	36,314	30,066	57	611,342
ZONE Z	1958	44,793	55,018	1,643	1,498	43,150	53,520	0	С	0	7,726
	1964	99,347	122,635	5,344	5,868	93,873	116,622	130	145		45.273
	1969	89,447	68,528	6.239	5,505	82.752	62,286				
	1974	85,767	61,051	4,565	3,196	79,782	56,824	456	737		27,696
	1979	83,986	63,142	6,479	4,060			1.420	1.031	59	29,325
	1984	57,160	46,079	5,552		76,117	58,076	1,390	1,006		28,700
	1,04	2.1100	40,019	2.225	2.838	51,158	42,665	450	576	70	33,462

AND COMMENDED COMMENDS OF SCHOOL STREET, STREE

TABLE 2.--IRRIGATION SUMMARY FOR RIVER AND COASTAL BASINS, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

BASIN AND ZONE		ALL I	ALL IRRIGATION (ON-FARM USE)	SURFA SUP (ON-F	ACE-WATER PPLIED FARM USE)	SUPP	SUPPLIED	IRRIGAT COMBINE	GATION USING INED SUPPLIES		PRINKLER SYSTEMS
	YE AR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE -FEET	ACRES	ACRE-	SURFACE SOURCE PERCENT	ACRES
BRAZOS CONTINUED											
ZONE 3	1958	7,911	00	5,348		883	1,206	. 68	3		0
	1964	13,697	9	-		0		7,665	3.497		9.0
	1969	18,873	9	14,367		9		84	56		4 . 8
	1010	13.633	2 0	*) a	4	0.		100	1,042		7 , 1
	1984	15,466	16,874	7,853	8,418	6,062	6,722	1,551	1,734	41	13,201
Z0 NE 4	1958	49464	6	. 80		, 32	.04	335	8	2	4,232
	1964	11,869	8	66.		, 43	. 59	.43	971	9	9,301
	1969	39,046	S	3,72		1,32	1,11	664	,86	3	37,601
	1974	45,180	40,373	16,674	13,600	24,381	22,973	4,125	3,800	4.5	43+765
	1979	54,567	2 . 1	2 4 4 6		8,50	4 . 95	.59	0 4	₹.	48,709
	1984	62,547	•	4 , 88		2,68	4.79	164	**	#	53,050
ZONE 5	1958	74,300	58	10	,13	6.4	7 7 7	• 39	.00	9	.86
	1964	95,473	6,20	0	4 65	1,49	06.	2,78	464	9	5,103
	1969	70,381	64,817	12,715	10,523	8 5	43,319	12,816	10,975	68	-
	17.4	56,041	20 1	NI	10	8,91	694	• 20	.05	9 .	. 80
	- 0	47.004	200	m	1 19	6,73	61.	• 50	195	9	2,116
	1984	48,659	• 16	NI.	62	2,69	99.	. 43	83	2	6.
Z0 NE 6	1958	33,888	-	4 46		7 , 4	61.9	.93	.87	#	669
	1964	24,628	7	* 92		.08	5,44	2	.75	5	657
	1969	26,543	63,701	0	28,071	6.08	33,934	550	1,696	90	1,566
	1974	21,231	0	164		* 8 4	6,52	45	•20	2	741
	1979	22,953	9	+ 25		2,73	2,35	3,960	.25	9	1
	1984	16,707		• 08		,61	6,13	0	0		1,882
BASIN TOTAL		2,656,226	3,08	8,20	55,863	4607,6	41	0,33	8.0		
		2,789,806	4,375,435	48,483	59,459	2,727,681	4.306.967	13,642	600*6	72	237,707
		2,671,755	0,02	8,35	70,182	,593,2	83	0,15	00.00		
	1974	2,775,086	3,38	2,02	53,585	,700,8	,82	22,230	23,979		88,0
		2,262,232	3,60	1.29	41,152	,761,3	83	3,59	8 +61		
		2,161,584	65.6	1,37	72,549	,059,4	34	0,72	01.4		14,8
BRAZ 0S -C OL ORA DO											
BASIN TOTAL	1958	32,797	86,833	21,700	65,450	8,297	-	2,800	06.		
	1704	101416	65,68	24,518	130,060	6 . 3	V	3.1	11		350
	1969	66/40/	37,80	39,193	54,41	940	82	3 1	1.23		59
	10701	72 744	15,86	200410	134,229	4 4 6	3 C	9,58	505		404
	1984	74.160	0.61	36.524	42.40	3 0	76.525	12,025	- 0	10	186.9
		20.44.01	10.4	10000	701471	7	0	000	0		0

COMBINED SUPPLIED SUPPLIED COMBINED SUPPLIES (ON-FARM USE) YEAR ACRES ACRE-FEET ACRES ACRE-FEET ACRES ACRE-FEET ACRES ACRE-FEET ACRES ACRE-SOURCE-FEET PERCENT COLORADO ZONE 1 1958 507,007 668,521 1,441 1,958 505,566 666,563 0 0 0	ACRES 412.163 574.125 741.936 794.871 814.434 628.686
YEAR ACRES ACRE-FEET ACRES ACR	412,163 574,125 741,936 794,871 814,434 628,686
YEAR ACRES ACRE-FEET ACRES ACRE-FEET ACRES ACRE-FEET ACRES ACRE- SOURCE-FEET ACRES ACRE- SOURCE-FEET ACRES ACRE- SOURCE-FEET ACRES ACRE-FEET ACRES ACRE-SOURCE-FEET ACRES ACRE-FEET ACRES ACRE	412,163 574,125 741,936 794,871 814,434 628,686
COLORADO ZONE 1 1958 507,007 668,521 1,441 1,958 505,566 666,563 0 0 0	412,163 574,125 741,936 794,871 814,434 628,686
COLORADO ZONE 1 1958 507,007 668,521 1,441 1,958 505,566 666,563 0 0 0	574,125 741,936 794.871 814,434 628,686
ZONE 1 1958 507,007 668,521 1,441 1,958 505,566 666,563 0 0	574,125 741,936 794.871 814,434 628,686
1,112 303,300 000,303	574,125 741,936 794.871 814,434 628,686
1,112 303,300 000,303	574,125 741,936 794.871 814,434 628,686
	741,936 794,871 814,434 628,686
1964 617,583 831,991 706 1,017 616,877 830,974 0 0 0	794.871 814.434 628.686
1074 1757 1757 1757 1757 1757 1757 1757 17	814,434 628,686
2,254 10	628,686
1979 824,377 688,012 1,051 1,760 821,306 683,116 2,020 3,136 73	
1984 643,752 531,154 809 1,287 637,916 522,058 5,027 7,809 80	
ZONE 2 1958 41,936 51,682 20,557 24,928 20,334 25,531 1,045 1,223 48	E 177
1964 73,412 113,181 24,473 40,119 47,783 70,995 1,156 2,067 48	5,127
1969 97,213 133,893 33,018 55,592 63,906 77,851 289 450 68	19,930
1974 116,747 168,932 45,922 70,764 68,067 95,381 2,758 2,787 64	22,643
1979 135,326 170,787 41,574 58,466 92,262 110,529 1,490 1,792 64	
	20,660
1984 135,023 176,317 30,311 41,312 104,224 134,483 488 522 59	23,547
ZONE 3 1958 6,204 6,149 3,124 2,812 3,080 3,337 0 0	5,590
1964 8,872 14,467 5,134 8,869 3,668 5,348 70 250 50	7.512
1969 14,590 22,632 7,029 8,635 7,321 13,339 240 658 50	12,302
1974 14,283 12,708 6,125 5,267 7,918 6,815 240 626 50	12,592
1979 7,946 11,720 2,189 2,041 5,757 9,679 0 0 0	6,615
1984 8,579 12,878 3,189 3,323 5,390 9,555 D D D	7,009
3,313 3,333 0	, ,00 ,
ZONE 4 1958 20,245 43,370 12,965 31,085 7,280 12,285 0 0	1,430
1964 24,991 55,893 13,684 37,517 10,565 15,779 742 2,597 50	3,661
1969 27,286 79,247 14,920 44,173 11,396 33,400 970 1,674 42	3,934
1974 27,587 82,059 16,595 52,272 9,990 28,335 1,002 1,452 31	3,803
1979 26,569 70,161 17,662 52,031 8,485 17,329 422 801 32	2.874
1984 28,120 87,264 14,384 50,321 12,748 36,138 988 805 33	3,159
BASIN TOTAL 1958 575,392 769,722 38,087 60,783 536,260 707,716 1,045 1,223 48	424,310
1964 724,858 1,015,532 43,997 87,522 678,893 923,096 1,968 4,914 49	599,430
1969 897,021 665,994 56,196 110,344 838,056 551,500 2,769 4,150 58	778.102
1974 969,549 1,043,174 69,772 129,760 893,953 906,315 5,824 7,099 58	833,909
1979 994,218 940,680 62,476 114,298 927,810 820,653 3,932 5,729 65	844.583
1984 815,474 807,613 48,693 96,243 760,278 702,234 6,503 9,136 74	662,401
COLORA DO -L AVA CA	
BASIN TOTAL 1958 57,354 200,600 26,600 106,450 25,294 73,580 5,460 20,570 55	60
1964 47,232 176,429 20,100 97,150 23,862 65,109 3,270 14,170 21	30
	100
1974 61,753 202,554 1,000 4,000 34,518 100,173 26,235 98,381 84	135
1979 63,400 191,750 1,000 3,883 33,381 82,050 29,019 105,817 78	467
1984 45,952 144,795 13,256 51,018 27,604 76,814 5,092 16,963 56	

TABLE 2.--IRRIGATION SUMMARY FOR RIVER AND COASTAL BASINS, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

BASIN AND ZONE			RIGATION RM USE)	SUP	CE-WATER PLIED ARM USE)		-WATER LIED		ION USING SUPPLIES		RINKLER YSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES		SURFACE SOURCE -	ACRES
					Here reer	HONES	none tel	- Ches		PERCENT	HUNES
									200000000000000000000000000000000000000		
LAVACA											
BASIN TOTAL	1958	74,843	222,559	18,350	54.246	54.883	163,406	1,610	4.907	34	652
	1964	72,802	220,070	15,926	70,325	55,266	143,928	1,610	5.817	46	713
	1969	84,958	281,620	17,155	75,501	67,005	204,065	798	2,054	54	1,217
	1974	100.051	311,164	20,090	78,047	77,230	224,363	2,731	8,754	25	1,241
	1979	85,202	234,447	19,822	66,065	60,658	156,333	4,722	12,049	33	1,199
	1984	69,568	225,570	16,387	63,017	51,044	154,897	2,137	7,656	37	897
LAVACA -G UADAL UPE											
DACIN TOTAL	1050	11 530	70 127							0161	
BASIN TOTAL	1958	11,529	30,123	6,927	14,229	4,602	15,894	0	0	٥	120
	1964	18,370	53,442	7,032	21,928	9,875	26,881	1,463	4,633	27	145
	1969 1974	20,203	76.824	7,993	37,035	12,062	39,271	148	518	80	0
	1979	21,555	76,297	10,651	42,156	10,904	34,141	0	0	0	0
	1984	24,976 19,675	77,613 62,046	9,214	27,642 24,897	15,325	48,587 37,149	437 0	1.384	50 0	0
GUADALUPE			02,0.0	373.0	2.70%	114001	3,117	,,0	U	ů.	· ·
GUADALUPE											
ZONE 1	1958	755	1,029	438	592	317	437	0	0	0	679
	1964	1,255	1,796	795	1,124	460	672	0	0	0	1,105
	1969	2,036	2,137	1,169	1,235	867	902	0	0	0	1,807
	1974	1,303	904	894	602	409	302	0	0	O	1,207
	1979	1,067	1,418	703	569	364	849	0	0	0	962
	1984	1,101	2,778	719	1,192	247	506	135	1,080	80	978
ZONE 2	1958	2,758	3,003	2,068	2,224	690	779	0	D	0	1,961
	1964	2,935	3,131	1,344	1,450	1,591	1,681	0	0	0	1,991
	1969	2,300	2,326	1,113	1,011	1,187	1,315	0	0	0	1.789
	1974	3,740	3,487	2,804	2,628	936	859	0	0	0	3,386
	1979	2,367	1,288	1,713	991	654	297	0	0	0	1,780
	1984	2,907	3,124	2,076	2,228	693	620	138	276	80	2,317
ZO NE 3	1958	5,242	5,860	2,918	2,945	2,324	2,915	0	٥	0	3,794
	1964	4,746	5,260	1,997	2,040	2,749	3,220	0	0	0	3,765
	1969	4,782	4,096	2,004	1,657	2,767	2,429	1.1	10	50	3,724
	1974	5,021	4,129	1,680	1,364	3,291	2,723	50	42	50	4,334
	1979	4,890	2,249	2,253	861	2,587	1 , 371	50	17	50	4,129
	1984	6,380	6,718	2,479	2,724	3,771	3,864	130	1 30	38	5 . 634

TABLE 2.--IRRIGATION SUMMARY FOR RIVER AND COASTAL BASINS, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

BASIN AND ZONE			RIGATION RM USE)	SUP	CE-WATER PLIED ARM USE)		-WATER LIED		ION USING D SUPPLIES		PRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE - PERCENT	ACRES
										CHOCH	
GUADAL UPE CONTINU	ED										
ZONE 4	1958	1,538	1.165	1.008	755	400	381	130	29	50	918
	1964	1,890	1,350	315	249	1.445	993	130	108	50	1.328
	1969	751	1,131	140	201	611	930	0	0	0	383
	1974	1,239	1.232	466	257	773	975	0	0	0	834
	1979	861	1,590	236	196	625	1,394	a	0	0	466
	1984	1.012	2,332	220	153	792	2,179	D	0	0	
		1,012	2,332	220	153	172	2,117	U	U	U	330
BASIN TOTAL	1958	10 207		0 000	W Wall	40.00					
BASIN TOTAL	1964	10,293	11,057	6 + 432	6,516	3,731	4,512	130	29	50	7,352
		10,826	11,537	4,451	4,863	6,245	6,566	130	108	50	8,189
	1969	9,869	9,690	4,426	4,104	5,432	5,576	11	10	50	7,703
	1974	11,303	9,752	5,844	4,851	5,409	4,859	50	42	50	9.761
	1979	9,185	6,545	4,905	2,617	4 + 2 3 0	3 + 911	50	17	50	7,337
	1984	11,400	14,952	5,494	6,297	5,503	7,169	403	1,486	76	9,259
SAN ANTONIO											
ZONE 1	1958	32,320	46.518	11,020	15,203	21,300	31.315	0	0	0	3,100
	1964	30,643	60.838	14.089	26.727	16,554	34,111	0	0	0	3,171
	1969	31.069	42,224	6,575	7,667	9,359	17,387	15,135	17,170	69	2.314
	1974	29.886	37,118	14,472	14,774	15,414	22,344	0	0	0	6.230
	1979	28,281	43,311	13,115	18,916	15,166	24.395	0	0	0	5.025
	1984	27,197	58,321	8,406	14,011	18,353	42,950	438	1,360	50	5,681
				04.00	117011	104333	12,750	450	1,300	30	3,001
ZONE 2	1958	6,777	6,190	2,555	1,948	4.222	4,242	0	0	0	4 . 365
	1964	19,737	17,760	6,342	5,453	13,285	12,209	110	98	50	11.558
	1969	19,123	15,264	4,721	2,384	12,269	11,514	2,133	1,366	10	14.863
	1974	20,402	20,984	6,179	6,498	13,399	13,687	824	799	4	16.460
	1979	7,329	7,141	669	832	6,660	6,309	- 0	0	0	6,348
	1984	12,280	10,958	2,935	1,803	9,245	9,081	100	74	35	11.117
BASIN TOTAL	1958	39,097	52,708	13,575	17,151	25,522	35.557	0	0	0	7.465
	1964	50,380	78,598	20,431	32,180	29,839	46,320	110	98	50	14.729
	1969	50,192	57,488	11,296	10,051	21,628	28,901	17,268	18,536	64	17,177
	1974	50,288	58,102	20,651	21,272	28,813	36,031	824	799	4	22,690
	1979	35,610	50,452	13,784	19,748	21.826	30 , 704	0	0	0	11.373
	1984	39,477	69,279	11,341	15,814	27,598	52,031	538	1.434	49	16.798
		- ARROWS IN THE ST					2001	550	1 44 34	7,7	10 1 70

TABLE 2.--IRRIGATION SUMMARY FOR RIVER AND COASTAL BASINS, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

BASIN AND ZONE			RIGATION RM USE)	SUP	CE-WATER PLIED ARM USE)		-WATER PLIED		ION USING D SUPPLIES	5	SPRINKLER SYSTEMS
					HAIT OSLI					.05466	
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- SI	URFACE-	ACRES
									FEET P	ERCENT	
SAN ANTONIO-NUECES											
SAN ANTONIO-NOECES											
DACTN YOYAL		17 110									
BASIN TOTAL	1958 1964	13,110	14,415	0	u	13,110	14,415	0	0	0	30
		16,328	7,557	0	0	16,113	7,414	215	143	20	1.055
	1969	12,797	5,986	105	80	12,692	5,906	0	0	0	313
	1974	12,909	6,318	30	20	12,879	6,298	C	0	0	320
	1979	2,596	1,760	34	34	2,562	1.726	0	0	0	34
	1984	10,101	4,786	65	51	10.036	4,735	0	a	0	94
NUECES											
Z0 NE 1	1958	189,469	229,277	12,014	18.109	159,405					PATRAL TAXABLE
	1964	290,618	496,278	17,190	32,687	And the same of th	191,979	18,050	19,189	51	46,997
	1969	304 - 155			100000000000000000000000000000000000000	248,065	413,065	25,363	50,526	32	79,341
	1974	291,406	483,418	19,808	36 , 828	258,778	409,182	25,569	37,408	66	105,060
	1979	290,617	460,670	17,863	33,071	246.816	380,180	26,727	47.419	74	118,667
			451,429	24,888	36,492	244,564	381,026	21,165	33,911	77	137,209
	1984	263,369	511,574	20,493	44,279	227.232	436,993	15,644	30,302	27	129,621
ZONE 2	1958	8,700	9,537	1,680	1,271	6,520	7,862	500	404	50	1,670
	1964	17,570	11,147	7,355	5,450	9,431	5,069	784	628	47	3.011
	1969	16,570	7,642	5,390	2.833	9.680	4.184	1,500	625	50	4.265
	1974	8,393	4,528	860	540	7.533	3,988	0	0	0	2.770
	1979	3,292	1,717	180	140	3,112	1,577	0	0	o	880
	1984	5,537	3,879	1,560	975	3,977	2,904	0	0	0	1,630
BASIN TOTAL	1958	198,169	238,814	13,694	19,380	165,925	199,841	18,550	19,593	50	48.667
	1964	308,188	507,425	24,545	38 , 137	257,496	418,134	26.147	51.154	32	82,352
	1969	320,725	491,060	25,198	39,661	268,458	413,366	27,069	38.033	65	109.325
	1974	299,799	465,198	18,723	33,611	254,349	384,168	26,727	47,419	74	121,437
	1979	293,909	453,146	25,068	36,632	247,676	382,603	21,165	33,911	77	138,089
	1984	268,906	515,453	22,053	45,254	231,209	439,897	15,644	30,302	27	131,251
NUECES-RIO GRANDE											
20 NE 1	1958	7,823	4,115	4.190	2 (01	7 (77		-	120	-	an interest
	1964	10,825	7,135	3,337	2,601	3,633	1,514	0	0	0	4,498
	1969	13,297	6,837		11000	7,488	5,869	0	0	0	7,088
	1974	11,574		1,430	664	11,867	6,173	0	0	0	11,396
	1979	10,572	6,836 4,735	240	100	11,254	6,683	80	53	60	11,454
	1984	8,910	6,360	60 60	40	10,432	4.642	80	53	60	10.252
	1704	0,710	0,300	60	40	8,770	6,267	80	5.3	60	7,220

TABLE 2.--IRRIGATION SUMMARY FOR RIVER AND COASTAL BASINS, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

BASIN AND ZONE		ALL IR	ALL IRRIGATION	SURFACE SUPPL CON-FAR	URFACE-WATER SUPPLIED ON-FARM USE)	GROUND-WATE SUPPLIED	-WATER LIED	IRRIGATI COMBINED	GATION USING INED SUPPLIES		SPRINKLER
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE PERCENT	ACRES
NUECES-RIO GRANDE-	GR ANDEC ONT INUED	0.1									
ZONE 2	1958	830	623	_	_	U2 8	663	c	c	c	0
	1961	4 80	376	0	0 0	480	376	0	3 C	0 0	0 00
	1969	1,100	588	004		700	388	0	0 0	0 0	
	1974	096	483	400	19	260	291	0		o C	96
	1979	4 00	158	400	5	0				0 0	
	1984	200	09	0		200	09	0 0	0	0 0	200
ZONE 3	1958	762.264	1.266.661	682.081	~	5	11.589	44	36.05	6.7	7.0
	2	741.771	100	2 4	741 54	01010	2 400	0 0 0	0 4 4 0	7 6	-
	1969	750.015	-038-84	80.	0		001.4	200	81 25	75	
	1974	744.723	0 3	19	70	5.000	222.9		2.00	י מ	
	1979	737,723	878.52	71.	17		6.750		200	0 0	
	1984	680,235	948,002	619,235	861,002		250	60,500	86,750	89	5,500
	L	210		,			- 1	100	1	-	
BASIN LOIAL	1958	116,011	1,271,398	24 99	417	0.0	• 72	3,66	5,95	29	
	1904	27.1.4.10	200	00000	. 74	0 1	104	2 4 4 0	20,85	25	
	1070	7144401	1749404	81 98	25		156	2,00	1,25	75	
	1070	748 695	0 -	72.1	000		2 . 20	90.0	3,05	7 3	
	1984	689.345	954-422	619.295	861-042	0-470	6-677	00.00	200451	7 O	12.020
			1				-		200	0	
RIO GRANDE											
ZONE 1	1958	62,395	214.037	0	c	916	4	1 4 1	2 2 5	0	-
	1964	64.200	156.098	0	0		82	2-60	200	0 =	-
	1969	71,274	252,316	0	0	1,193	. 68	0.08	7.63	86	300
	1974	67,825	214,389	150	250	1,180	4,055	66,495		9.8	448
	-	63,815	191,602			510	. 76	3,30	9.84	9.8	0.6
	1984	65,526	214,589	220	393	215	83	2,09	,36	16	0.4
ZONE 2	1958	5,778	60	6	9	228	-	*26	9.70	7.7	56
	1964	6,751	38	256	4	1,030	.53	944	06.9	77	96
	1969	96949	26,640	178	9445	793	3,230	5,725	22,965	8.5	0
	1974	6,620	0	8 3	24	019	\$ 55	.86	1,21	81	10
	1979	6,962	6 8	.93	. 91	1,522	,70	50	1,33	9.8	380
	1984	5,890	56	866 4 4	0,59	892	994			0	535
ZONE 3	1958	31,595	102,977	0	0	31,595	02,97	0	0		1,150
	1964	41,810	124,124	0	0	41,810	24.12	0	0		- 24
	1969	31,371	122,183	0	0	31,371	22,18	0	0		44
	1974	42,435	166,616	0	0	42,435	19499		0		2,80
	- 0	72,860	212,540	0	0	72,860	212,540	0	0	0	5
	1861	32,066	127,149	ם	5	32,066	27,14	0	0		0,50

TABLE 2.--IRRIGATION SUMMARY FOR RIVER AND COASTAL BASINS, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

BASIN AND ZONE			RRIGATION ARM USE)	SUF	ACE-WATER PPLIED FARM USE)		D-WATER PLIED		TION USING D SUPPLIES		SPRINKLER SYSTEMS
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- S	URFAC OURCE ERCEN	- ACRES
RIO GRANDE CONTIN	UE D										
ZONE 4	1958	690	1,151	0	0	690	1,151	0	0	0	690
	1964	0	0	0	٥	0	0	0		0	D
	1969	1,752	5,458	C	۵	1,752	5,458	0	0	0	1.712
	1974	1,983	3,613	0	D	1,983	3,613	0	ä	0	1.963
	1979	1,555	5,267	0	0	1,555	5.267	0	0	o	1.505
	1984	385	502	0	0	385	502	ū	G	a	371
ZONE 5	1958	220,313	731,816	11,255	34,321	190,678	652,512	18,380	44,983	57	400
	1964	245,444	806,648	7,451	13,228	225,127	749,261	12,866	44,159	16	2.724
	1969	145,656	565,015	399	1,228	128,414	504.734	16,843	59.053	44	3.004
	1974	136,800	529,420	254	735	119,227	462,955	17.319	65.730	50	2.312
	1979	66 + 698	231,350	433	1,098	56,191	197,543	10,074	32,709	77	15.300
	1984	59,282	180,973	25	38	52,921	154,472	6,336	26,463	50	11,785
ZONE 6	1958	1,762	3,128	О	a	1.722	3,003	40	125	50	280
	1964	2,767	5,304	0	ū	2,767	5,304	0	0	0	813
	1969	3,184	5,167	D	3	3,184	5,167	D	0	0	1.007
	1974	2,235	2,839	0	0	2,235	2,839	0	0	a	546
	1979	1,075	1,175	0	0	1,075	1,175	0	٥	0	555
	1984	1,084	1,451	O	a	1,084	1,451	0	٥	a	497
ZONE 7	1958	33,771	40,791	30.036	36 , 151	3,535	4,460	200	180	30	80
	1964	55,150	142.863	48,850	131,003	6,300	11,860	0	0	0	0
	1969	71,763	155,273	64,252	141,337	7,511	13,936	0	0	0	130
	1974	63,089	128,271	56,964	117,342	6,125	10,929	0	0	0	668
	1979	53,632	78,529	48.479	69,247	5.087	9,123	66	159	20	2,329
	1984	50,181	101,735	45,991	92,386	4,190	9,349	D	0	0	2,293
ZONE 8	1958	19,234	25,366	14,219	19,934	15	15	5,000	5.417	80	100
	1964	81,650	123,188	16,650	26,621	0	0	65,000	96,567	60	800
	1969	64,683	86,990	17,183	23,819	0	0	47,500	63,171	75	200
	1974	53,805	63,501	53,805	63,501	- 0	D	0	0	a	0
	1979	55,362	61,942	55,362	61,942	0	0	0	0	o	4,130
	1984	54,307	69,080	53,807	68,580	500	500	0	0	0	4.084
BASIN TOTAL	1958	375,538	1,140,360	55,800	91,274	229,439	769,316	90.299	279,770	82	2,756
	1964	497,772	1,378,607	73,207	171,797	278,634	897,907	145,931	308,903	32	5,683
	1969	396,379	1,219,042	82,012	166,829	174,218	659,393	140,149	392,820	85	6.793
	1974	374,792	1,132,659	111,256	182,077	173,855	653,558	89.681	297.024	86	8.747
	1979	321,959	811,362	109,209	156,203	138,800	431,110	73,950	224.049	95	51.803
	1984	268,721	717,744	105,041	181,993	92,253	295,925	71,427	239,826	92	30.114

TABLE . . . INCIDENTER SUMMERY FOR REALS AND CONSIST MAXIMIL TOTAL PARK, DANCE DEFINE 1979. AND THE TOTAL PROPERTY.

TABLE 2 .-- IRRIGATION SUMMARY FOR RIVER AND COASTAL BASINS, 1958, 1964, 1969, 1974, 1979, AND 1984--CONTINUED

BASIN AND ZONE		10 March 2010 10	RRIGATION ARM USE)	SU	ACE-WATER PPLIED	A	ID-WATER PPLIED		ION USING D SUPPLIES	SPRINKLER SYSTEMS
				(UN-	FARM USE)					SURFACE
	YEAR	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SOURCE - ACPES PERCENT
STATE TOTAL	1958	6,723,614	9,605,605	1,126,521	2,170,313	5,387,663	6,946,620	209,430	488,672	71 667,678
	1964	7,706,881	12,509,652	1,184,961	1,992,067	6,235,614	9,989,649	286,306	527,936	37 1,076,729
	1969	8,206,249	11,569,024	1,267,607	2,352,335	6,648,553	8,622,041	290,089	594,648	77 1,548,002
	1974	8,618,054	13,082,262	1,272,397	2,186,062	7,089,624	10,279,992	256,033	616,208	80 1,814,293
	1979	7,817,681	9,723,413	1,248,855	1,850,225	5,885,102	6,924,037	683,724	949,151	59 2,197,001
	7984	6 752 625	0 342 957	1 003 158	2 055 843	5 415 859	6 790 588	243 608	496 526	78 2-140-598

TABLE 3--IRRIGATION SUMMARY FOR SOIL & WATER CONSERVATION DISTRICTS - 1984

DISTRICT		RIGATION RM USE)	SUPP	E-WATER LIED RM USE)		D-WATER PLIED		GATION U INED SUP		SPRINKLER SYSTEMS
NO. NAME	ACRES	ACRE-FEE T	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE -	- ACRES
								FEET	PERCENT	
104 FLOYD COUNTY	207,600	184,504	0	0	188,400	174,904	19,200	9.600	50	3,255
107 RIO BLANCO	158,618	123,113	0	0	142,944	113,643	15,674	9.469	50	10,345
108 LUBBOCK COUNTY	168,360	123,257	0	0	163,010	114,907	5,350	8.350	65	22.130
109 HALL-CHILDRESS	27,864	22,326	0	0	27,864	22,326	0	0	0	20,205
110 TULE CREEK	125,425	150,758	0	0	125,425	150,758	0	٥	D	11,220
111 BLACK WATER VALLEY	142,283	149,132	0	0	142,283	149,132	0	0	0	102,889
115 UPPER COLORADO	4,483	4.218	330	633	4,153	3.585	0	0	0	3.552
119 LYNN COUNTY	84,980	60,392	0	0	80,980	54.792	4,000	5,600	75	17,820
124 DAWSON COUNTY	32,390	21,361	٥	0	32,390	21,361	0	0	0	32,390
125 GRAY COUNTY	18,423	16,293	0	0	18,423	16,293	0	٥	0	4.322
126 CAP ROCK	60,133	45,643	426	213	59,707	45,430	0		0	6,689
127 DONLEY COUNTY	11,795	6,715	0	0	11,795	6,715	0	0	0	7.886
129 HOCKLEY COUNTY	150,900	100,959	0	0	150,740	100,852	160	107	70	101,420
130 LAMB COUNTY	279,400	533,192	٥	0	279,400	533,192	0	0	0	134,000
131 DALLAM	213,375	285,751	0	.0	213,375	285,751	0	0	0	188,502
132 HALE COUNTY	354,900	526,632	0	0	354,000	525.274	900	1.358	20	51,500
133 SALT FORK	5,314	5,884	40	45	5,274	5.839	0	(- D	0	4,864
134 LIPSCOMB	20,945	17.824	0	0	20,645	17,674	300	150	20	18,470
136 RUNNING WATER	231,657	321,357	0	V . W	231,657	321,357	450020		5000:1	
137 MOORE COUNTY	210,100	287,913	0	0	210,100	287.913	0	۵	O	24,000
138 HEMPHILL COUNTY		5,260	201001	LIED O	2,961			200		3,201

TABLE 1--- TRREGATION SURMARY FOR SOLL & WATER CONSCRUATION DISTRICTS - 1989 CONTINUED

TABLE 3--IRRIGATION SUMMARY FOR SOIL & WATER CONSERVATION DISTRICTS - 1984 CONTINUED

DISTRICT		RIGATION RM USE)	SUPP	E-WATER LIED RM USE)		D-WATER PLIED		GATION U INED SUP		SPRINKLER SYSTEMS
NO. NAME	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	ACRES
								FEEI	PERCENI	
140 PARMER	291,970	278,193	0	0	291,710	277,873	260	320	50	67,460
141 WHEELER COUNTY	4,438	4,145	100	67	4,338	4.078	0	0	0	4,438
142 OCHILTREE	101,000	128,608	D	0	101,000	128,608	0	0	0	4.342
143 TIERRA BLANCA	285,530	297,892	٥	0	285,530	297,892	0	0	0	15,240
145 ROBERTS	8,436	5,204	0	0	8,436	5,204	٥	0	0	2,852
146 HUTCHINSON	44,895	60,142	0	0	44,895	60.142	0	0	0	1 + 408
147 PALO DURO	58,255	53,503	350	350	55,625	50.423	2,280	2 , 730	60	3,860
148 HANSFORD	148,306	252,284	٥	0	148,306	252,284	0	O	0	7,880
149 COCHRAN	105,512	73,917	۵	0	105,512	73,917	0	0	0	104,635
150 YOAKUM	100,427	61,515	0	0	100,427	61,515	0	0	0	99,797
151 TERRY	146,799	66,118	0	0	146,449	65.243	350	8 75	91	146,494
152 HARTLEY	200+000	219,512	0	0	200,000	219.512	C	٥	0	97,910
153 OLDHAM COUNTY	6 • 1 3 6	5,661	0	- 0	6,136	5,661	0	٥	0	848
155 STAKED PLAINS	11,460	7,097	0	0	11,460	7.097	D	٥	0	640
156 MCCLELLAN CREEK	114,000	105,923	0	C	114,000	105.923	0	0	0	5,575
157 DUCK CREEK	10,070	6,718	1,123	468	8,457	5.960	490	290	60	5,200
158 GARZA	6,105	5,125	0	0	6,105	5.125	0	D	0	340
159 SHERMAN COUNTY	140,200	225,833	0	0	140,200	225,833	C	٥	0	43,830
160 CANADIAN RIVER	8,705	13,253	0	0	6.185	8,857	2,520	4,396	70	2,480
161 FOARD COUNTY	4,220	4,080	٥	0	4,220	4.080	D	0	0	4,220
162 LOWER PEASE RIVER	6,671	6,592	120	170	6,551	6,422	0	0	0	1,505
163 COTTLE	1,712	1,913	20	5	1,632	1,758	60	150	10	1.373

THE T. SAFTYLING CONT. S. L. T. SAFTYLING CO. L. T. L.

TABLE 3--IRRIGATION SUMMARY FOR SOIL & WATER CONSERVATION DISTRICTS - 1984 CONTINUED

	I ABLE J	ABLE 3-IRRIGATION SO	SUMMERT FOR	SOIL C MAICK	MAIER CONSERVATION DISTRICTS	DISTRICTS	1984 CONTINUED	INDED		
DISTRICT	CON-FAR	ALL IRRIGATION (ON-FARM USE)	SURFACE-L SUPPLIE	SURFACE-WATER SUPPLIED CON-FARM USE	GROUND	GROUND-WATER SUPPLIED	LRRI	IRRIGATION USING COMBINED SUPPLIES	ING	SPRINKLER
NO. NAME	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE	ACRES
									1	
164 UPPER PEASE	094.6	4 + 30 9	360	200	9,100	4.109	0	0	0	9.080
165 UPPER CLEAR FORK	1,333	1,977	30	20	1,128	1.813	175	1.14	06	1,150
166 GAINES COUNTY	261,920	282,872	0	0	261,920	282,872	0	a	0	261,920
167 STONEWALL	272	179	0	0	272	179	0	0	0	272
168 KING	009	436	0	D	9009	436	D	0	D	009
ZONE 1 TOTAL	4,590,578	5,165,484	2,899	2,201	4,535,720	5,119,574	51,959	43,709	58	1,693,503
201 CONCHO	30,569	040.470	4,821	10,322	25,748	30.148	0		D	2,679
205 EL PASO-HUDSPETH	84,777	316,493	220	393	19,466	102,737	160.59	213,363	16	4 4 4 8 0
206 MIDDLE CLEAR FORK	1,340	754	345	173	566	581	0	0	D	006
207 MITCHELL	2,798	2,739	0	0	2,798	2.739	0	0	0	2,783
208 NORTH CONCHO RIVER	30,404	40,297	0	0	30,404	40,297	0	0	0	1,052
209 TOYAH-LIMPIA	16,966	28.697	25	38	10,605	32,196	6,336	26,463	5.0	5 . 6 07
210 HIGHLAND	7,827	25,178	4,998	20,596	2,829	4.582	0	a	0	2,350
213 UPPER PECOS	10,867	32,247	0	0	10,867	32,247	0	0	0	2,407
214 SAN SABA-BRADY	10,060	449.6	5,857	5,434	4,203	4.210	0	0	0	5,228
215 MENARD COUNTY	3,398	2,588	3,202	2,425	196	163	0	О	0	270
216 KENDALL	114	320	15	38	66	282	0	0	0	65
217 KERR COUNTY	826	2,255	597	1,017	46	158	135	1,080	80	762
218 PEDERNALES	233	419	27	. 9	506	357	0	0	0	117
219 COKE COUNTY	310	512	0	0	310	512	0	0	0	75
220 GILLESPIE COUNTY	1,201	2,040	175	153	1,026	1,887	D	94.0 2010	0	700
221 NUE CE S-FRI O-SABINAL	51,370	151,773	1,750	2,005	48,420	146,560	1,200	3,208	10	15,348

TABLE 3--IRRIGATION SUMMARY FOR SOIL & WATER CONSERVATION DISTRICTS - 1984 CONTINUED

DISTRICT		RIGATION RM USE)	SUPP	E-WATER LIED RM USE)		-WATER		GATION U INED SUP		SPRINKLER SYSTEMS
NO. NAME	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE- PERCENT	ACRES
									TERCENT	
222 EDWARDS PLATEAU	617	937	91	143	526	794	0	0	0	278
223 MASON COUNTY	5,889	13,640	125	264	5,764	13,376	0	0	0	5,841
224 DEVIL S RIVER	1,022	2,348	620	1,612	402	736	0	0	o	90
225 UPPER LLANOS	1,914	1,328	1,523	1,051	391	277	0	a	0	1,292
226 MEDINA VALLEY	46,868	126,194	13,840	37,762	30,804	81,390	2,224	7,042	50	10,648
227 BIG BEND	233	427	0	0	233	427	0	0	o	135
228 MAVERICK	39,353	84,339	39,353	84,339	0	٥	0	0	0	53
229 BANDERA	213	169	152	108	61	61	0	0	O	150
230 HIGH POINT	10,869	22,265	0	0	10.869	22.265	D	0		4,119
231 TRANS-PECOS	31,230	89,819	0	0	31,230	89,819	0	0		3,794
232 RUNNELS	3,049	3,887	1,942	2,578	749	871	358	438		1,225
233 LLANO COUNTY	711	1,049	50	42	661	1,007	0	0		665
234 MIDDLE CONCHO	38,757	51,616	1,359	2,281	37,398	49.335	0	0		2,288
235 CROCKETT	450	338	0	0	450	338	0			
236 WEST NUECES-LAS MORAS	4,706	10,335	671	1,212				0		450
237 R GRANDE-PECOS RIVER	28	41	0		4,035	9,123	D	۵		1.555
238 UPPER NUECES-FRIO				0	28	41	0	0		0
La característico de la caract	243	348	243	348	0	0	0	a	0	201
240 CHAPARAL	894	1,407	0	0	894	1,407	0	٥	O	640
241 SANDHILLS	2,482	5,617	0	0	1,872	3,538	610	2,079	90	1,834
242 MUSTANG	16,979	19,093	G	0	16,979	19.093	0	0	0	16,399
243 HOWARD	506	614	51	112	455	502	0	0	0	506
244 MIDLAND	19,794	23,852	0	0	15,727	18.997	4,067	4 , 855		13,172

TABLE 3--IRRIGATION SUMMARY FOR SOIL & WATER CONSERVATION DISTRICTS - 1984 CONTINUED

DISTRICT		RIGATION RM USE)	SUPP	E-WATER LIED RM USE)		D-WATER PLIED		GATION U		SPRINKLER SYSTEMS
ADM TARREST BELL				0327						
NO. NAME	ACRES	ACRE-FEE T	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE- PERCENT	ACRES
hav with The Lie	0.565							v mant		
245 NOLAN COUNTY	2,210	2,262	140	140	1,730	1,629	340	493	73	1,911
246 ANDREWS	4,871	3,605	0	0	4 . 871	3.605	0	0	0	4,754
247 ELDORADO-DIVIDE	1,017	1,438	0	0	1,017	1.438	0	O	0	304
248 TOM GREEN OF LA	5,590	10,881	3,190	8,060	2,400	2.821	. 0	0	0	2,080
1-1 : 01.174										
ZONE 2 TOTAL	493,555	1,164,275	85,382	182,708	327,812	722,546	80,361	259,021	89	119,207
301 WILSON COUNTY	12,051	8,395	1,707	1,146	10,164	7 + 116	180	1 3 3	28	11,863
304 HAYS-CALDWELL-TRAVIS	1,985	2,207	1,512	1,603	335	328	1 38	276	80	1.840
306 COMAL-HAYS-GUADALUPE	6,707	8,489	2,930	3.882	3,777	4.607	0	0	0	5,665
307 ATASCOSA COUNTY	31,988	35,039	0	0	31,988	35.039	. 0	. 0	0	31,988
311 NUECJ WELLS-KLEBERG	9,505	5,521	1,360	582	8,065	4,886	80	53	60	4 • 165
313 BURLESON-LEE	11,917	7,863	106	88	10,864	7.227	947	548	50	181
316 MATAGORDA COUNTY	46,886	158,140	30,128	115,953	12,571	27.751	4,187	14,436	80	8,875
317 COASTAL PLAINS	25,201	86,108	6,987	29,622	18,214	56,486	0	٥	0	1,775
318 WATERS DAVIS	49,611	145,493	41,083	130,180	7,474	12,151	1.054	3 • F62	60	5,088
319 SOUTHMOST	268,707	376,457	268,207	375,707	0	0	5.00	750	75	500
320 DIMMIT COUNTY	10,051	18,160	250	123	6 • 5 7 8	12,252	3,223	5,785	10	1.038
321 AGUA POQUITA	2 • 755	2,517	0	٥	2,755	2.517	0	o	0	2,755
322 DOS RIOS	6,510	10,894	700	1,275	4,970	8,362	840	1.257		6,510
323 LIVE OAK	1,230	1 • 5 3 3	260	433	970	1.100	V C ⊅ C → D	ACKE + O	500 OCE -	1,230
324 SAN PATRICIO	6,428	3,556	40	13	6,388	3.543	D	٥	O STATE ARE	54
325 FRIO	60,285	90,007		TIED 453	58,970	88.051	975	1.503	18	53,165
01218101			SURFAC		CHORNE	I-RYLEB		eraton na	140	SPR CHEELER
326 WINTER GARDEN	58,894	95,856	2,185	1.151	49,209	81,997	7,500	12.708	30	6.780

TABLE 3--IRRIGATION SUMMARY FOR SOIL & WATER CONSERVATION DISTRICTS - 1984 CONTINUED

DISTRICT		RRIGATION ARM USE)	SUPP	E-WATER LIED RM USE)		-WATER PLIED		GATION U INED SUP		SPRINKLER SYSTEMS
NO. NAME	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE - PERCENT	- ACRES
328 LOMA BLANCA	450	135	0	0	450	135	D	0	0	450
329 COPANO BAY	150	51	0	0	150	51	0	0	0	0
330 ALAMO	20,104	38,815	9,565	15,266	10,499	23.449	40	100	60	5.478
331 MONTE MUCHO	450	450	0	0	450	450	0	٥	0	450
332 STARR COUNTY	25,751	30,777	25,251	30,277	500	500	0	٥	0	400
333 COLORADO	36,501	134,012	24,795	95.049	10.552	35,116	1,154	3.847	20	25
334 LAVACA	6,304	22,320	0	0	6,304	22+320	0	0		270
335 ZAPATA	3,286	3,300	3,286	3,300	0	0	0	٥	0	684
336 JACKSON	30+685	96,670	0	0	28,265	89,006	2,420	7,664	23	250
337 WEBB	5,400	5,400	5,400	5,400	0	0	0	٥	0	783
338 GONZALES COUN	2+395	1,636	860	498	1,405	1.008	130	130	38	2,265
339 DE WITT COUNT	Y 445	148	60	20	385	128	0	0	0	250
340 BASTROP COUNT	TY 1.598	1,130	890	663	28	37	680	430	33	1.078
341 FAYETTE	1,309	458	993	331	221	111	95	16	60	1.136
342 WHARTON COUNT	Y 83,700	268,952	22,770	91,832	53,030	147.495	7,900	29,625	62	4,360
343 KARNES-GOLIAD	2,101	2,102	1,069	411	1,032	1,691	0	0	0	1,534
344 BEE	3,830	1,339	25	38	3,805	1.301	0	0		40
345 CALHOUN	9,161	28,143	8,048	24,897	1,113	3,246	0	0	0	0
346 VICTORIA	6,293	20,334	160	133	6,133	20,201	0	0	0	160
347 AUSTIN COUNTY	3,015	8,754	0	0	3,015	8,754	0	0	0	0
348 WASHINGTON	122	122	0	0	122	122	0	0		0
349 WILLACY	37,235	54,235	37,235	54,235	a	0	D	0		O

areful accommon a los efectos con alta de como de compressión a transfer a la como esta para parte de la como de la como

TABLE 3--IRRIGATION SUMMARY FOR SOIL & WATER CONSERVATION DISTRICTS - 1984 CONTINUED

DISTRICT	(ON-FAI	RIGATION RM USE)	SUPP (ON-FA	E-WATER LIED RM USE)	SUPP	D-WATER PLIED	COMB	GATION U INED SUP		SPRINKLER
NO. NAME	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-	SURFACE SOURCE-	the state of the s
								FEET	PERCENT	
350 HILDAGO	399,563	552,313	339,063	466,063	500	250	60,000	86,000	90	8,000
ZONE 3 TOTAL	1,290,559	2,327,831	837,265	1,450,624	361,251	708,784	92,043	168,423	70	171.085
401 NAC OG DO CHE S	53	24	9	5	44	19	0	٥	0	44
404 DAVY CROCKETT-TRINITY	182	80	177	78	5	2	0	0	0	0
408 BOWIE COUNTY	3,492	9,018	2,095	5.865	857	1.533	540	1.620	25	351
412 HARRISON COUNTY	48	21	8	+ 1 = 1	40	20	0	0	0	48
415 LAMAR	1,760	4,667	1,760	4,667	0	0	0	0	0	1,760
417 UPSHUR-GREGG	0	0	D	0	. 0	. 4 D	0	0	0	0
419 SULPHUR-CYPRESS	542	658	27	50	60	145	455	463	45	482
421 ANDERSON-HOUSTON	616	445	492	380	30	18	94	47	50	381
422 TRINITY-NECHES	173	124	. 0	0	160	95	13	29	30	165
423 RED RIVER COUNTY	375	613	375	613	0 0 1	0	0	О	0	205
424 FREESTONE-LEON	0	0	0	0	0	0	0	۵	0	0
425 MONTGOMERY-WALKER	13	13	0	0	13	13	0	٥	0	0
426 NECHES-SABINE	784	1,959	784	1,959	0	0	0	0	0	710
427 CHEROKEE COUNTY	274	659	185	434	24	8	65	217	50	246
428 BEDIAS CREEK	521	300	421	225	100	75	_ " ^ 0	0	0	160
429 PINEY WOODS	٥	0	0	0	0	0	0	0		0
431 BRAZOS-ROBERTSON	28,731	28,035	2,878	2,824	19,353	16818.912	6,500	6.299		VCH CO
432 COASTAL	27,830	97,405	27,830	97,405	0	a	0	0	0	222
433 MARION-CASS 434 TRINTIY BAY		123,592	0	123,379		0 1 - M V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ONTION U		7421E#0 25013447E#

TABLE 3--IRRIGATION SUMMARY FOR SOIL & WATER CONSERVATION DISTRICTS - 1984 CONTINUED

	ALL IRRIGATION (ON-FARM USE)		SURFACE -WATER SUPPLIED (ON-FARM USE)		GROUND-WATER SUPPLIED		IRRIGATION USING COMBINED SUPPLIES			SPRINKLER SYSTEMS
DISTRICT										
NO. NAME	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE-FEET	ACRES	ACRE- FEET	SURFACE SOURCE - PERCENT	- ACRES
435 LOWER TRINITY	25,286	75+715	15,527	51,756	6,812	16,591	2,947	7,368	54	220
436 POLK-SAN JACINTO	76	228	0	0	76	228	0	0	0	40
437 LOWER NECHES	430	1,141	0	0	430	1.141	0	۵	0	15
438 UPPER NECHES	225	563	0	0	225	563	0	٥	0	225
439 LONG LEAF	39	22	35	18	4	4	D	0	0	35
440 NAVASOTA	10,398	28,739	367	184	10,031	28,555	0	٥	0	620
441 JASPER-NEWTON	1,265	1,347	35	105	0	0	1,230	1,242	25	165
442 HARRIS	16,375	33,483	585	1.755	15,790	31,728	0	٥	0	2,000
443 DEL TA	1,300	3,900	1,300	3,900	0	0	D	0	0	0
444 WOOD	412	680	120	113	110	275	182	292	35	402
445 HOPKINS-RAINS	157	105	157	105	0	0	0	a	0	136
446 LOWER SABINE-NECHES	1,321	4,403	1,321	4,403	0	٥	0	٥	0	0
447 RUSK	47	8.7	27	54	20	33	0	0	0	27
448 PANOLA	32	64	32	64	0	0	0	٥	0	32
449 SHELBY	40	1 3	30	8	10	5	0	а	0	0
ZONE 4 TOTAL	158 • 190	418,103	91,885	300,350	54,279	100,176	12,026	17,577	38	8,771
501 LIMESTONE-FALLS	5,705	5,907	1,080	1,207	4,625	4.700	٥	0	o	400
504 ELLIS-PRAIRIE	0	0	0	0	0	0	0	٥	0	0
505 KAUFMAN-VAN ZANDT	897	943	886	932	11	11	0	0	0	892
506 HAMILTON-CORYELL	1,576	2,640	780	1,205	600	782	196	653	50	1,201
508 LITTLE RIV-S GABRIEL	291	252	270	250	21	2	0		0	195
509 CENTRAL TEXAS	1,812	1,753	1,750	1,691	62	62	0	0	0	1,318