CHAPTER I. Irrigation of Agricultural Lands

This chapter presents statistics on irrigation practices and results as provided by farms and ranches in the 1974 Census of Agriculture.

The effect of changing the definition of a farm on the comparability of data for the 1974 census with those of earlier censuses is touched upon in this chapter. A more detailed explanation of the change in the definition of a farm can be found in volume II, part 1.

Part 1 also contains information on how the 1974 Census of Agriculture was taken and processed, and factors influencing the accuracy of the data. In the 50 States, there were 236 thousand farms which reported irrigating at least part of their land. Although this is a small number in relation to the 2.3 million farms and ranches in the entire Nation, irrigation is significantly important in the total agriculture production. While accounting for only 11.9 percent of the farms with sales of \$2,500 and over, irrigated farms accounted for 27.2 percent of the total value of agricultural products sold.

Availability of Data

Additional data for individual crops irrigated for farms with sales of \$2,500 and over are presented in volume II, part 6. Irrigation data on acres of fruits and nuts were not collected in the 1974 census, leaving irrigated land in orchards as the only data item published for orchard crops.

Farm irrigation data on a county basis are available but are not presented here due to space limitations. Most of the items of data presented in the tables of this report may be obtained for counties from Volume I, State and County Data, chapters II, III, and IV.

Definitions and Explanations

Most of the definitions needed for understanding the terms in the tables have been provided in volume II, part 1. Following are a few additional terms and concepts.

Irrigated farms—A farm with any agricultural land irrigated in the census year is classified as an irrigated farm. The acreage irrigated may vary from a very small portion of a farm to complete irrigation of all agricultural land.

Acres irrigated—Any land in farms or ranches to which water was artificially applied in the census year (1974) was counted as irrigated. Land irrigated prior to but not in the census year is not included. Irrigation may have been used for producing a harvested crop, for pasture or grazing lands, for cultivated summer fallow, or for land planted to a crop intended for future harvest. Land flooded during high water periods was to be included as irrigation only if water was diverted to agricultural lands by dams, canals, or other works.

Acre-feet—The amount of water required to cover 1 acre to a depth of 1 foot is an acre-foot. This is equivalent to 43,560 cubic feet or 325,850 gallons.

Wholly irrigated—If all of the acreage harvested for a specified crop was irrigated, the crop was counted as wholly irrigated. No measure of the adequacy of the applied water was obtained in the census.

Partly irrigated—If the acreage irrigated for a specified crop was less than the total acreage harvested for that crop, the crop was counted as partly irrigated.

Historical Comparability

Questions regarding irrigation of farm or ranch land have been included in each census of agriculture since 1890. The kinds of irrigation data collected in each census are summarized briefly.

1890—Total acres irrigated and number of flowing artesian wells.

1900—Acres irrigated by water, from natural streams, and from pumped or artesian wells.

1910—Acres of land irrigated and acres of pasture irrigated.

1920—Acres of land irrigated and expenditures for irrigation water.

1930—Acres of irrigated cropland and acres and quantity of each crop harvested on irrigated land.

1935—Total acres from which irrigated crops were harvested.

1940—Acres of land from which irrigated crops were harvested and total acres of irrigated land used only for pasture.

1945—Total acres of land irrigated.

1950—Total acres of land irrigated and acres irrigated by sprinklers.

1954—Total acres irrigated.

1959—Total acres irrigated and acres irrigated by sprinklers and acres of selected crops harvested from irrigated land.

1964—Total acres irrigated, acres of irrigated land used only for pasture or grazing, acres of harvested cropland irrigated, acres of selected crops harvested from irrigated land, and quantity of selected crops harvested from irrigated land.

1969-Total acres irrigated available for all farms. Available for farms with sales of \$2,500 and over: Acres of harvested cropland irrigated; acres of cropland used only for pasture or grazing irrigated; other pastureland irrigated; any other land irrigated; acres irrigated by sprinklers; acres irrigated by furrows or ditches; acres irrigated by flooding; acres irrigated by subirrigation; percent of water obtained from well or spring; percent of water obtained from a surface supply not controlled by a water supply organization; percent of water obtained from water suppliers; total quantity of water used; farms that irrigated land since January 1965; and acres of individual harvested crops irrigated, 1969.

1974—Total land irrigated available for all farms. Available for farms with sales of \$2,500 and over: Acres of harvested cropland irrigated; acres of cropland used only for pasture or grazing irrigated; acres of cropland used for cover crops irrigated; acres of cropland on which all crops failed irrigated; acres of idle cropland irrigated; improved pasture irrigated; acres irrigated by furrows or ditches; acres irrigated by flooding; acres irrigated by subirrigation; acres irrigated by

self-propelled sprinkler systems; acres irrigated by other sprinkler systems; total quantity of water used for irrigation; no irrigation in census year, but irrigating during 1970 to 1973; most recent year in which acres were irrigated and total acres irrigated that year; and acres of individual harvested crops irrigated.

A facsimile of the irrigation items on the 1974 form A1 used for farms with sales of \$2,500 and over is presented in section 19. The facsimile of section 7 is an example of how the acres irrigated for individual crops were obtained. A facsimile of the entire form A-1 is shown in the appendix of volume II, part 1.

A facsimile of the irrigation item on the 1974 form A2 used to obtain the number of acres irrigated on farms with sales of under \$2,500 is presented in section 6.

Change in Farm Definition

For all final reports of the 1974 Census of Agriculture, the census definition of a farm was any place which during the census year had or normally would have had sales of agricultural products of \$1,000 or more. The 1974 definition differs from the earlier definition in only two respects:

- (1) The criterion for number of "acres in place" has been deleted.
- (2) The criterion for minimum value of agricultural products sold has been changed to \$1,000.

The effect of the change in farm definition was to reduce the number of irrigated farms and to a lesser extent, reduce the number of acres irrigated. As a result of the change in the definition of a farm, a total of 8,432 (3.6 percent) irrigated places with some agricultural operations, and 54,551 (1.0 percent) acres irrigated were excluded from the 1974 Census of Agriculture. Table 1 gives the number of places and acres irrigated that were excluded in 1974 and the farms and acres irrigated that would have been excluded in the 1969 census by the 1974 census definition of a farm.

Presentation of Data

As in 1969, two different report forms were used in 1974: A regular (A1) report form for farms with \$2,500 or more of sales, and a short (A2) report form for farms less than \$2,500 in value of sales. This difference in source of data is noted at the top of tables 6 through 19 of this chapter.

Section 19 Was any of the LAND in this place IRRIGATED in	1974? YES - Answer Items 1 and 2 below
	NO Answer item 3 below
1. How many acres were irrigated in 1974 by each of these methods?	None Acres urgated in 1974
a. Furrows or ditches	
b . Flooding	
c. Subirrigation	
d. Self-propelled sprinkler system (center pivot, traveling guns, traveling boom	
e. All other sprinkler systems (solid set, move pipe, wheel lines, tow lines, etc.)	
Estimated quantity of water used in 1974 (See separate Instructions for additional information on estimating quantity of water used.)	Water used in 1974 531 Acre-feet Tenths
 2. Please estimate the quantity of water used for irrigation in 1974 (Report in the unit or in the uni	532
convenient for you.) c. If acre-feet or gallons cannot be estimated in a b above, give depth in inches of all water appli	a or Total
S: If no tand trad migator	s the most recent year 535 acres were irrigated? Year 536
YES Complete a and b b. How many irrigated in	y acres were n that year? Acres

Section 7 Were any SOYBEANS, PEANUTS, DRY BEANS, or DRY PEAS harvested from this place in 1974?

YES — Complete this section	<u>n</u>								
NO — Go to Section 8			•		Commercial fertilizer used				
	Acres harvested	1	Quantity harvested	Acres irrigated	Acres	Dry	,	Liquid or	gas
	Harvested		narvested	irrigated	fertilized	Whole tons	Tenths	Whole tons	Tenths
1. Soybeans for beans 2	121	1	Bushels	2	3	4	/10	5	/10
2. Peanuts for nuts 3	122	1	Pounds	2	3	4	/10	5	/10
3. Dry field and seed beans	123	1	100-lb bags	2	[3]	4	/10	5	/10
4. Dry lima beans	124	1	100-lb bags	2	3	4	/10	5	/10
5. Dry field and seed peas 4	125	1	Pounds	2	3	4	/10	5	/10
6. Cowpeas for dry peas	126	1	Bushels	2	3	4	/10	5	/10

- 2 Soybean hay is to be reported in Section 10 and soybeans hogged or grazed, cut for silage, or plowed under in Section 16.
- 3 Peanut hay is to be reported in Section 10.
- Austrian winter peas are to be reported in Section 11.
- (5) Cowpea hay is to be reported in Section 10, green cowpeas in Section 12, cowpeas hogged or grazed or cut for silage in Section 16.

Section 6 LAND USE IN 1974

The purpose of this section is to distribute all acres in "THIS PLACE" among items 1 through 5

NOTE	: If the same land had more than one use in 1974, REPORT THAT in the first use that applies. For example, cropland that was harve					
	is to be reported only as "Cropland harvested."	,	Number of acres			
and	pland harvested (Include all land from which crops were harvested all land in orchards, citrus groves, vineyards, and nursery and greer to crops were harvested from the same land in 1974, report the aci	nhouse products	502			
2 . Cro	pland used only for pasture or grazing		503			
3 . All c	other cropland (Include cropland used for soil-improvement crops, of failure, cultivated summer fallow, and idle cropland.)		504			
4 . Woo	odland (Include woodland pasture.)		510			
	other land (Include pastureland other than cropland and woodland geland, and land in house lots, barn lots, ponds, roads, wasteland,		513			
6. TO	TAL ACRES IN "THIS PLACE" (Please add the acres reported in through 5 and enter the total in t		517			
	(This total should be the same as the total in Section 3, i	item 4.)				
	w much of the total land reported in item 6 was IRRIGATED 974?	528 Acres				

Evaluation of Data

Comparison of irrigation data obtained for all farms in the 1974 census to noncensus irrigation data suggests some undercoverage in the census of irrigated farms and/or acres. The noncensus estimates are not necessarily directly comparable to those of the census because of differences in definitions used and lack of uniform procedure in collecting the figures. Some of the reasons for the

differences between census and noncensus irrigation data are:

Irrigated land on farms missed in the census. An estimated 10.7 percent of all farms and 4.7 percent of the farms with sales of \$2,500 and over were not covered in the census.

The data collection form contained many questions to which some farm operators failed to respond completely.

Nonrespondents for farms or ranches with an expected sales of \$40,000 and over were telephoned to obtain the census data. In some cases, the irrigation data were not obtained.

Some farms and ranches failed to report some types of controlled flooding systems which are used to irrigate pasture and hay land in the Western United States.

The census does not include any irrigated areas such as lawns, golf courses,

cemeteries, parks, woodland, and other areas not defined as farmland. Only land in farms irrigated during the census year for agricultural production is included. Land which was irrigated in other years but not in the census year and land which could be irrigated if water and equipment were available are excluded.

Office Processing

Generally, the acreage for irrigated land was accepted as reported by the farm operator. Changes were made only when there were obvious reporting errors indicated by inconsistencies between irrigated land and other related entries.

A computer edit program based on specifications provided by the professional staff of the Agriculture Division checked the mathematical consistencies of the acreage figures for each farm and automatically corrected or adjusted the figures when necessary.

Some crops are seldom grown commerically in arid areas without being irrigated. In order to compensate for the failure of some farm operators to report irrigation, provisions were made in the computer edit to impute irrigation data if it was not reported for specified crops in arid areas. For example, in Arizona, if lettuce was not reported as irrigated by the farm operator the computer edit would change the acres irrigated to agree with the acres harvested.

Large edit changes made by the computer and extremely large irrigation acreages reported by farm operators were reviewed by a staff statistician. After rechecking information on reports or by telephoning respondents, significant errors were corrected.

Conclusions

Historically, the numbers of irrigated farms in the United States enumerated by the census increased consistently over time through 1954. In the censuses of 1959, 1964, 1969, and 1974 the numbers declined. This decline can be attributed to the trend toward fewer but larger farms. Changes in farm definition between 1969 and 1974 (see table 1) and between 1954 and 1959 (see 1959 Census of Agriculture, volume II, Introduction), also had an effect on the number of farms reporting irrigation.

Tables 7 through 9 in this chapter present data for all farms and tables 10 through 19 contain data for farms with sales of \$2,500 and over.

The omission of farms with sales of under \$2,500 and of abnormal farms from tables 10 through 19 is an omission

of the smaller irrigated farms. The irrigated farms with sales of \$2,500 and over numbered 34,600 less than all irrigated farms. However, 32,547 farms of this difference is accounted for by the farms having less than 50 acres irrigated. While irrigated farms with sales under \$2,500 and abnormal farms comprise 14.6 percent of all irrigated farms, they account for only 1.8 percent of all irrigated land.

The 1974 Census of Agriculture enumerated 236,733 farms with irrigated land in the 50 States. Of the total number of irrigated farms, 202,133 (85.4 percent) were farms with sales of \$2,500 and over. Irrigated farms counted in 1974 were 7.9 percent less than figures shown in the 1969 Census of Agriculture and 20.4 percent less than the 1964 Census of

Agriculture. Irrigated farms with sales of \$2,500 and over in 1974 showed decreases of 5.2 percent and 12.2 percent respectively, from the 1969 and 1964 censuses.

The States with the largest concentrations of irrigated farms, in proportion to the total number of farms, are located in the Western half of the United States.

The 17 Western States and Louisiana account for 83.1 percent of all irrigated farms. California, Texas, and Nebraska account for 45.8 percent of the irrigated farms in the West.

The 30 Eastern States, Alaska, and Hawaii, account for 16.9 percent of irrigated farms. Florida, Arkansas, North Carolina, Georgia, and Kentucky account for 51.0 percent of the irrigated farms in the East.

The number of farms applying water to crops or pasture can vary considerably from year-to-year due to uncontrollable conditions such as climate. The availability of water for irrigation depends on the quantity and timing of precipitation or on the fluctuation in the ground water table. Rain or the lack of it during the growing season determines the need for artificial application of water. The East Atlantic Coastal States and Midwestern States have the largest variation in year-toyear irrigation, while arid States of the Southwest consistently irrigate. The 1974 census collected data on the year and acres last irrigated for farms which irrigated during the period 1970 through 1973, but did not irrigate in the 1974 census year. Table 2 compares the 1974 data to similar data collected in the 1969 census.

Table 2. Farms Not Irrigated During Census Year but Reporting Irrigation in the Previous 4 Years: 1974 and 1969

Farms With Sales of \$2,500	Not irrigated in 193 but irrigated between 1970 and 1973		Farms not irri- gated in 1969 but irrigated between	Farms With Sales of \$2,500	Not irrigated in 19 but irrigated between 1970 and 1973	Farms not irri- gated in 1969 but	
and Over	Farms	Acres	1965 and 1968	and Over	Farms	Acres	irrigated between 1965 and 1968
United States	8,666	348,359	18,839	WEST NORTH CENTRALCon.			
REGIONS			ļ	South Dakota	108	9.488	156
			i	Nebraska	241	14.127	744
Northeast	476	14.221	1,169	Kansas	224	12.762	458
North Central	1,232	64.503	3,246	[
South	5,053	170,453	9,364	SOUTH ATLANTIC			
West	1,905	99,182	5,060				
				Delaware	25	1.869	35
DIVISIONS				Maryland	39	1,154	89
				Viriginia	337	5,439	825
New England	103	3,603	229		18	232	23
Middle Atlantic	373	10,618	940	North Carolina	943	12.010	2,219
East North Central	408	12,827	1,080	South Carolina	178	4,969	331
West North Central	824	51,676	2,166	Georgia	598		977
South Atlantic	2,463	48.895				11,301	
East South Central	1.063		5,269	Florida	325	11,921	770
		16,826	1,394				
West South Central	1,527	104,732	2,701	EAST SOUTH CENTRAL			
Mountain	655	47,718	1,565				
Pacific	1,250	51,464	3,495		814	4,510	869
				Tennessee	144	1,942	260
NEW ENGLAND				Alabama	31	1,640	111
				Mississippi	74	8,734	154
Maine	27	2,073	46				
New Hampshire	5	76	20	WEST SOUTH CENTRAL			
Vermont	29	688	26				
Massachusetts	18	301	59	Arkansas	223	13.676	352
Rhode Island	2	16	6	Louisiana	127	12,140	
Connecticut	22	449	72	Oklahoma	299	16.784	236
		447	1 "-	Texas			411
MIDDLE ATLANTIC				lexas	878	62,132	1,702
New York	144	4,420	358	MOUNTAIN			
New Jersey	79						
Pennsylvania		2,575	237	Montana	252	19,411	442
	150	3,623	345	Idaho	87	4,287	329
FACE MODELL CENTER'S				Wyoming	48	3,688	97
EAST NORTH CENTRAL			1	Colorado	148		
054.5				New Mexico	61	10,937 5,889	293
Ohio	81	1,566	206	Arizona			127
Indiana	51	1,200	212		26	1.654	83
Illinois	47	2,436	195	Utah	26	1,462	175
Michigan	175	5,513	340	Nevada	7	390	19
Wisconsin	54	2,112	127				
WEST NORTH CENTRAL				PACIFIC			
			1	Washington	323	10 100	
Minnesota	47	1,886	150	Oregon	323	12,188	573
Iowa	20	877	217	California		11,328	743
Missouri	132	10,052	294	Alaska	586	26,136	2,152
North Dakota	52	2,484	147	Hawaii	6	278	ı
			147	J nawaii [6	1,534	26

Irrigated Land in Farms

Although the number of irrigated farms increased up to 1954 then decreased in number since, each census since 1935 has marked an increase in acreage of land irrigated. In the 17 Western States and Louisiana, the 1974 acreage irrigated has nearly tripled since 1935. In the 30 Eastern States, Alaska, and Hawaii irrigated acreage increased nearly 17-fold in this time period. The difference in rate and timing of development reflects the differences in climate in the East and West. In much of the arid West, irrigation has been a prerequisite to cultivated crop production. While irrigation during short rainfall periods in the Eastern States can be a definite benefit to production, it is seldom required to prevent complete failure.

The 1974 census shows that 41.2 million acres were irrigated in the 50 States. In comparison with previous censuses, this represents an increase of 2.1 million acres irrigated, or 5.4 percent

since 1969, and an increase of 4.2 million acres irrigated, or 11.3 percent since 1964. Most of the acreage increase in irrigated land has occurred in the 17 Western States and Louisiana. This area has shown an increase of 1.9 million acres since 1969 and an increase of 3.6 million acres since 1964. However, in terms of percentage increase in irrigated land, the 30 Eastern States, Alaska, and Hawaii have shown the largest increase at 7.1 percent since 1969, and a 19.2 percent increase since 1964.

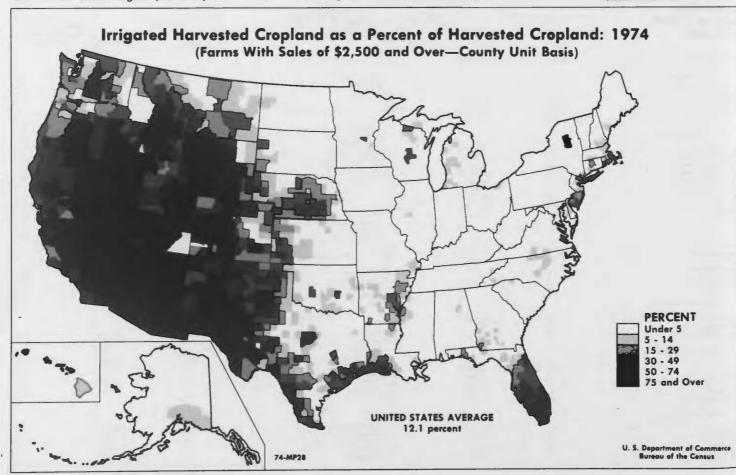
Crops by Acres Irrigated

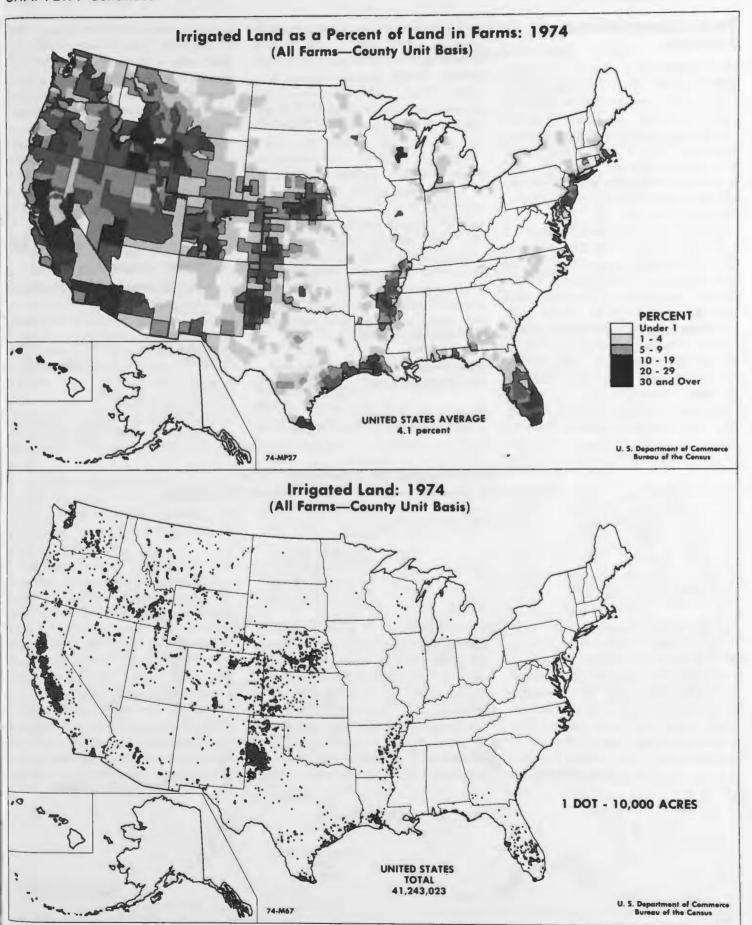
The most common crops grown on irrigated land are listed in descending order in table 3 by percent of crop irrigated in 1974. Also shown are acres irrigated and acres harvested by crop. The importance of irrigation to the production of selected crops is clearly indicated by the percent of the total acreage of each crop that is grown under irrigation. In general, the crops which produce the greater monetary returns per

acre have a greater percentage of the total acreage irrigated, while the crops producing lower values per acre show a lower percentage of the total acreage irrigated.

Table 3. Percent of Crops Irrigated, Acres Irrigated, and Acres Harvested, for Selected Crops: 1974

Farms With Sales of \$2,500 and Over	Percent of crop irrigated	Acres irrigated (1,000)	Acres harvested (1,000)
Land in orchards	62.9	2,547	4,048
Irish potatoes	57.6	769	1,334
Small grains	57,3	2,707	4,720
Vegetables, sweet corn, or melons for			
sale	52.1	1,601	3,070
Berries for sale	52.1	60	114
Cotton	30.5	3,699	12,129
Barley	18.4	1,340	7,286
Sorghums for all			
purposes	18.2	2,650	14,596
Field seed crops	15.8	278	1,759
Hay crops	15.1	7,861	52,068
Peanuts for nuts	13.2	179	1,359
Tobacco	10.6	89	842
Corn for all purposes.	9.4	6,674	71,220
Wheat	5.2	3,236	62,594
Improved pasture	4.6	1,760	38,007
Cropland pasture	3.4	2,219	65,687
Rye	2.1	13	637
Oats	1.6	176	11,143
Soybeans for beans	1.0	474	47,788
Other crops	39.2	1,877	4,782





Method of Irrigation Water Distribution

The method used to distribute or apply irrigation water varies from one area to another. The four primary methods of applying irrigation water are: Furrows and ditches, flooding, sprinklers, and sub-irrigation. Of the four, furrows and ditches are used most extensively, particularly in the Western States. However, in the Eastern States, the sprinkler method predominates.

Of the 40.5 million acres irrigated on farms with sales of \$2,500 and over, furrow and ditch irrigation was used on 19.0 million acres (46.9 percent). Flooding was used on 11.4 million acres (28.0 percent), sprinklers on 9.9 million acres (24.5 percent), and subirrigation on 0.8 million acres (2.0 percent). The sum of the acreage irrigated by each method exceeds the total acres irrigated because on some farms more than one method was used to irrigate the same acreage. Most farms applied irrigation water by

only one method. Of the total acreage irrigated, 28.1 million acres (69.4 percent) were on farms reporting a single method. Of the acreage irrigated by a single method, 13.6 million acres (48.5 percent) were irrigated by furrows and ditches; 7.9 million acres (28.0 percent) by flooding, 6.2 million acres (22.1 percent) by sprinklers, and 0.4 million acres (1.4 percent) by subirrigation.

The methods used to apply irrigation water also have a definite effect on the quantity of water applied per acre (table 4). Water use was highest on farms utilizing flood irrigation. These farms reported an average of 2.22 acre-feet of water applied per acre. At the U.S. level, self-propelled sprinkler systems showed the lowest water use with averages of 1.37 acre-feet per acre.

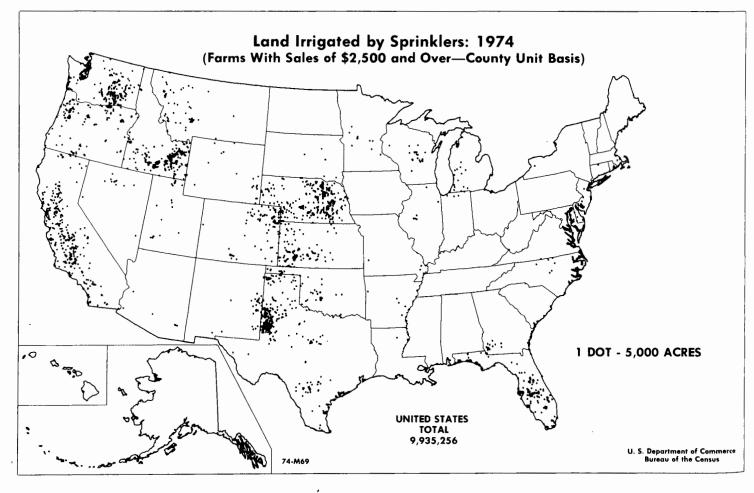
Crop Production on Irrigated and Nonirrigated Land

Since crop production is one of the leading indicators of the effects of irriga-

tion, data are provided for average yield for selected crops harvested from irrigated and nonirrigated land. Table 17 presents data for farms reporting, acres harvested of selected crops, and the average yield per acre for irrigated and nonirrigated land. The selected crops were tabulated as wholly irrigated, nonirrigated, and partly irrigated. The crop was classified "wholly irrigated" if the farm reported all acres harvested of the specified crop as being irrigated. Likewise, a

Table 4. Average Acre-Feet of Water Applied by Areas and Method of Application: 1974

Farms With Sales of \$2,500 and Over	United States	17 Western States and Louisiana	30 Eastern States, Alaska, and Hawaii
Furrows and ditches Flooding Sprinklers:	2.07 2.22	2.14 2.31	1.09
Self-propelled Other sprinklers Subirrigation	1.37 1.67 1.63	1.58 1.83 2.12	.70 .80 1.29



crop was tabulated as "nonirrigated" if none of the reported acres harvested for the crop was reported irrigated. The "partly irrigated" category included the crop acreage from those farms where only part of acres harvested of the specified crop was reported irrigated. The average yield per acre was computed for the acres harvested of each specified crop for each category. In most cases, particularly in the western part of the United States, the differences in average yields on wholly irrigated and nonirrigated acreage were striking.

To provide an overall view of the effect of irrigation, data are presented in table 5 concerning acreage yield indexes for the 17 Western States and Louisiana and for the 30 Eastern States, Alaska, and Hawaii. In computing the indexes, the U.S. average yield per acre for each specified crop was used as the base figure and set equal to 100. The index of average yields was then computed for the average yield of that portion of the crops that was wholly irrigated and the portion that was not irrigated for each of the two areas.

It is obvious that irrigation has a much greater effect on average production in the West than in the East. However, the percentage indexes vary considerably by crop and area.

Another measure of the effect of irrigation is the value of products produced on irrigated farms versus nonirrigated farms. In 1974, the total market value of products sold from all farms amounted to \$81.5 billion. Farms with sales of \$2,500 and over accounted for \$80.6 billion, or 99.0 percent of the total value of agricultural products. Table 19 provides detailed information for value of products sold from nonirrigated farms and from irrigated farms as well as selected expenditures for the same groups. The data in table 6 present the highlights.

Table 5. Index of Average Yield for Specified Harvested Crops From Wholly Irrigated Land: 1974

(U.S. average yield - 100)

Farms With Sales of	U.S. aver. per		Index for 17 Western States and Louisiana			
\$2,500 and Over	Average yield	Index	Crop wholly irrigated	Crop non- irrigated	Crop wholly irrigated	Crop non- irrigated
Alfalfa hay	2.6 71.7 10.7 43.0 26.9 37.5 47.2 23.9 13.6	100 100 100 100 100 100 100 100	154 143 153 164 170 164 118 123 136	67 79 52 85 91 80 77 98 44 33	115 124 153 149 104 150 123 112 95	105 98 108 109 123 115 116 100 92 22
Cottonbales Tobaccopounds Trish potatoeshundredweight. Sugar beets for sugartons. Vegetables, sweet corn, or melons for saledollars Land in orchardsdollars	.9 1988 236.1 18.5	100 100 100 100 100	156 118 116 156 122	61 42 66 62 49 57	117 106 103 89 136 78	95 100 84 73 47 84

Table 6. Percent of Selected Items on Nonirrigated and Irrigated Farms: 1974

Farms With		Acres (1	,000)		
Sales of \$2,500 and Over	Farms	All land, excluding cropland	Total cropland	Total production expenses (\$1,000)	Total value of agricultural products sold (\$1,000)
United States, total	1,695,047	905,640	412,998	59,855,727	80,598,305
Nonirrigated farms Percent of total. Irrigated farms Percent of total	1,492,914 88.1 202,133 11.9	702,914 - 77.6 202,726 22.4	339,018 82.1 73,980 17.9	43,200,876 72.2 16,654,851 27.8	58,680,299 72.8 21,918,006 27.2
17 Western States and Louisiana, total Percent of United States Nonirrigated farms Percent of the 18 States. Irrigated farms.	563,385 33.2 396,498 70.4 166,887 29.6	605,563 66.9 420,460 69.4 185,103 30.6	212,270 43.1 148,531 70.0 63,739 30.0	28,064,847 46.9 14,463,000 51.5 13,601,847 48.5	35,887,169 44.5 18,306,804 51.0 17,580,365 49.0
30 Eastern States, Alaska, and Hawaii, total Percent of United States Nonirrigated farms Percent of the 32 States Irrigated farms Percent of the 32 States	1,131,662 66.8 1,096,416 96.9 35,246	300,077 33.1 282,454 94.1 17,623 5.9	200,728 40.6 190,487 94.9 10,241 5.1	31,790,881 53.1 28,737,877 90.4 3,053,004 9.6	44,711,135 55.5 40,373,494 90.3 4,337,641 9.7

Of the \$80.6 billion of agricultural products sold from farms with sales of \$2,500 and over, irrigated farms accounted for \$21.9 billion, or 27.2 percent. This \$21.9 billion worth of products results from only 11.9 percent of the farms, 17.9 percent of the cropland, and 22.4 percent of land in farms.

These figures also vary considerably between East and West. The 17 Western

States and Louisiana account for 44.5 percent of the \$80.6 billion worth of agricultural products sold, while the other States account for 55.5 percent. The West accounted for \$35.9 billion worth of agricultural products. Of this amount, 49.0 percent came from irrigated farms. In the East, irrigated farms accounted for only 9.6 percent of the \$44.7 billion of agricultural products sold.