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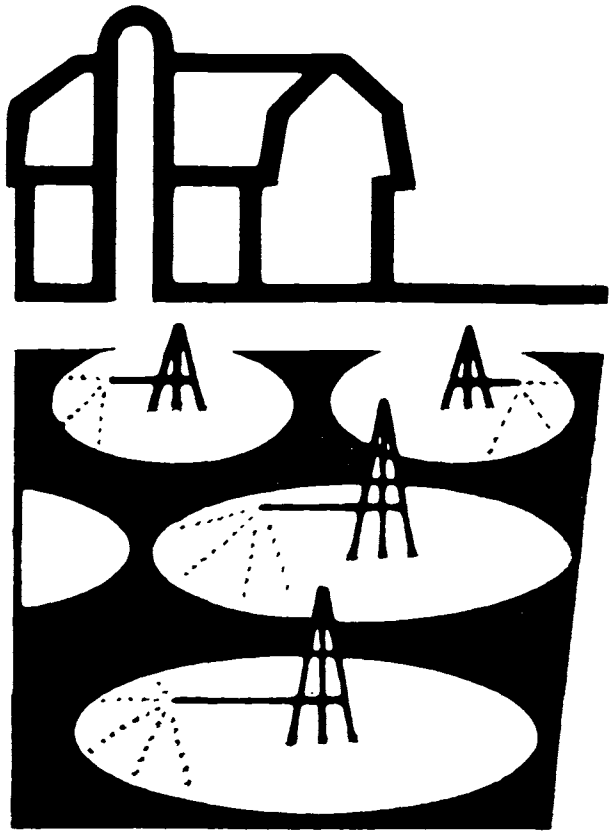


1984 Farm and Ranch Irrigation Survey

Prepared for

U.S. DEPARTMENT OF AGRICULTURE
Economic Research Service

U.S. Department of Commerce
BUREAU OF THE CENSUS

America's Agriculture

A Portrait of the Past and Present

AG86-PP-1

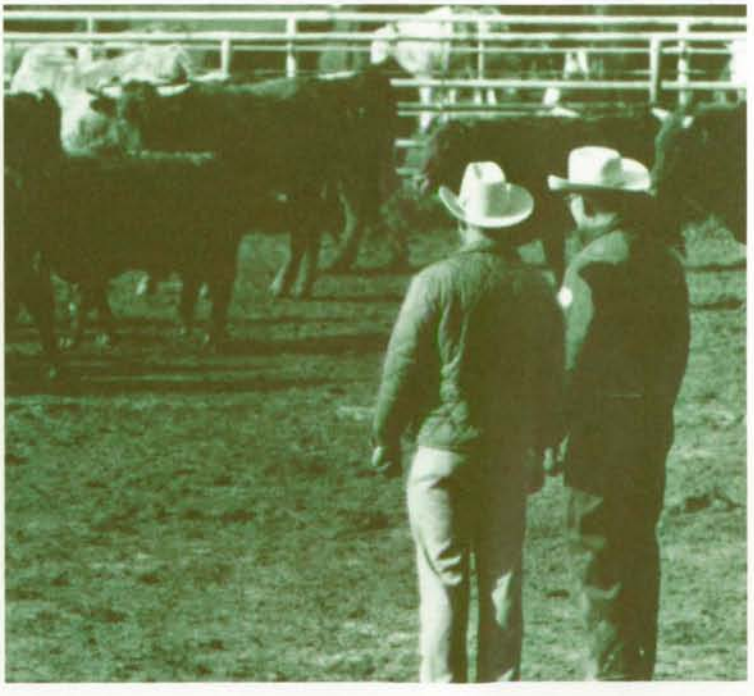
U.S. Department of Commerce BUREAU OF THE CENSUS

America's Agriculture A Portrait of the Past and Present

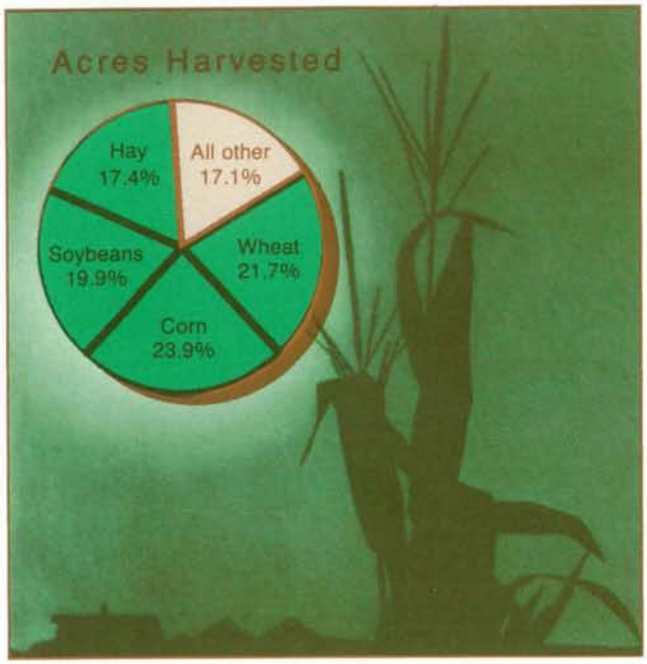
From the native Americans to the colonial settlers to the midwestern farmers and western ranchers, Americans have always understood the importance of the land.

The land, nurturing crops and livestock, provides our sustenance. Over 40 percent of this Nation's land is devoted to farming and ranching.

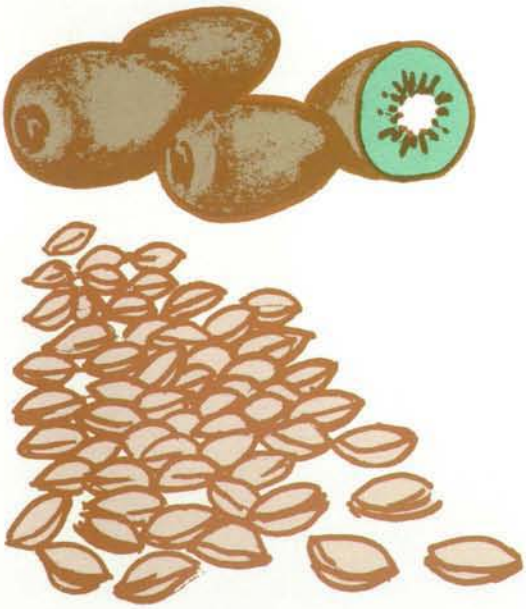
The census of agriculture has been collecting data on the land and the people who work it since 1840.



From Apples to Zucchini, America's farmers harvested over 326 million acres of crops in 1982. Over 80 percent of the harvest was comprised of 4 crops.

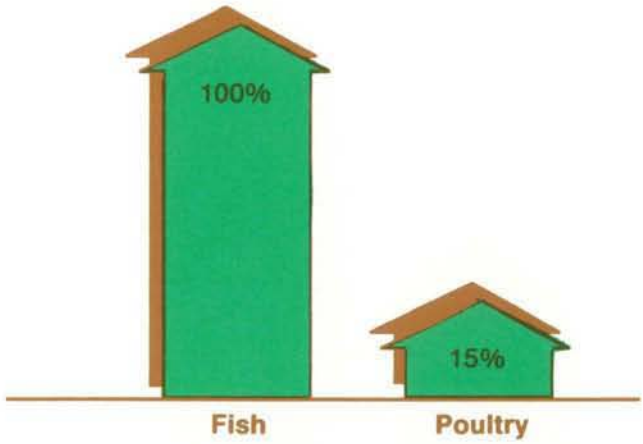


Many crops not produced here 10 years ago are now part of American agriculture.. California produced over 20 million pounds of kiwifruit and 36 million pounds of pistachio nuts in 1982 to meet consumer demand.



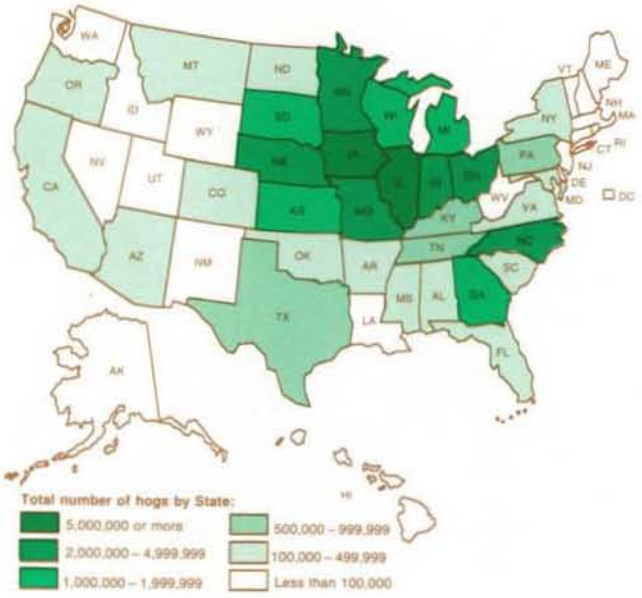
America's Changing Preferences

Agricultural production responds to America's changing preferences.

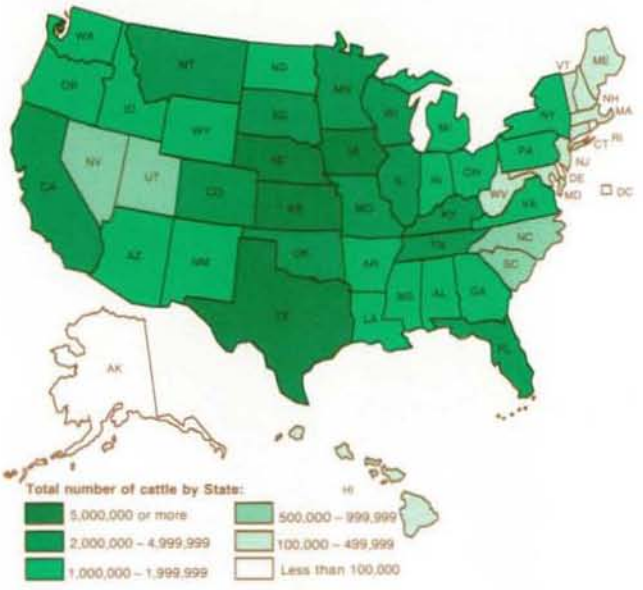


Poultry production increased by 15 percent between 1978 and 1982. While the number of fish farms remained relatively constant, pounds of production almost doubled since 1978.

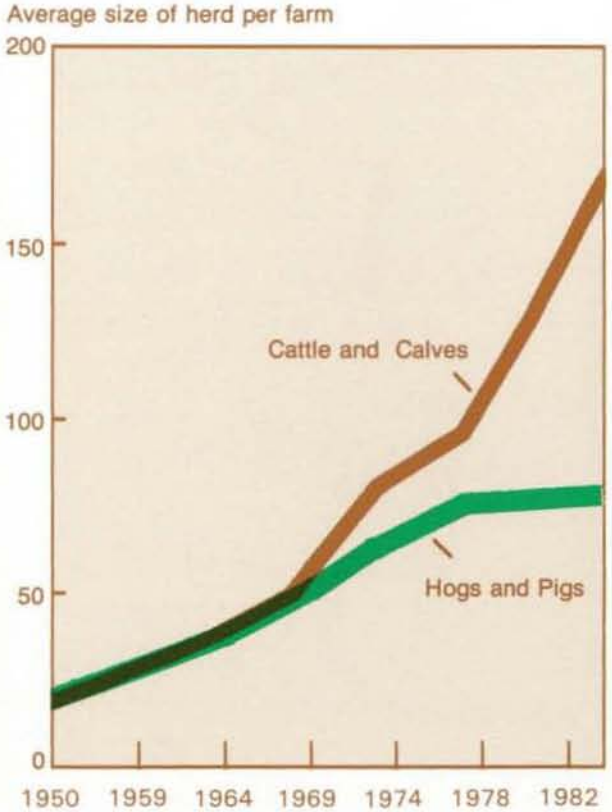
Where the Hogs Are

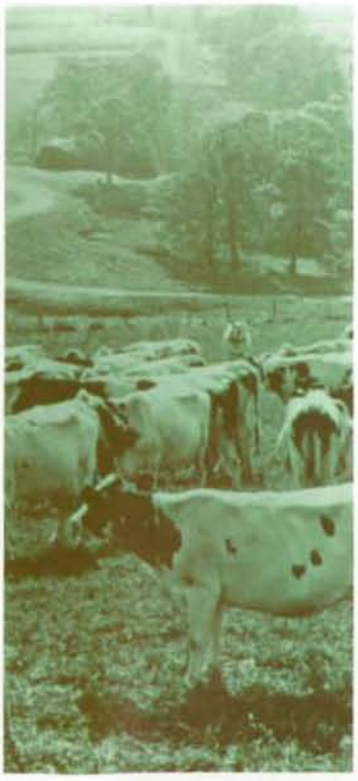


Where the Cattle Are



The number of hogs and pigs and cattle and calves per farm has steadily increased.





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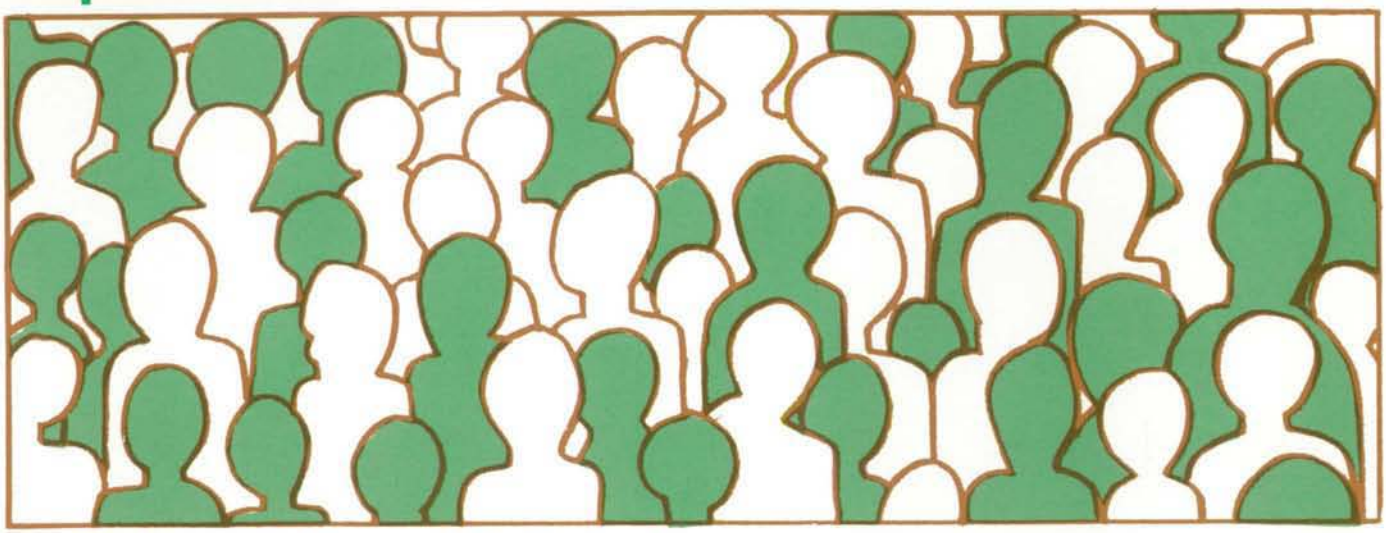
America's Changing Population

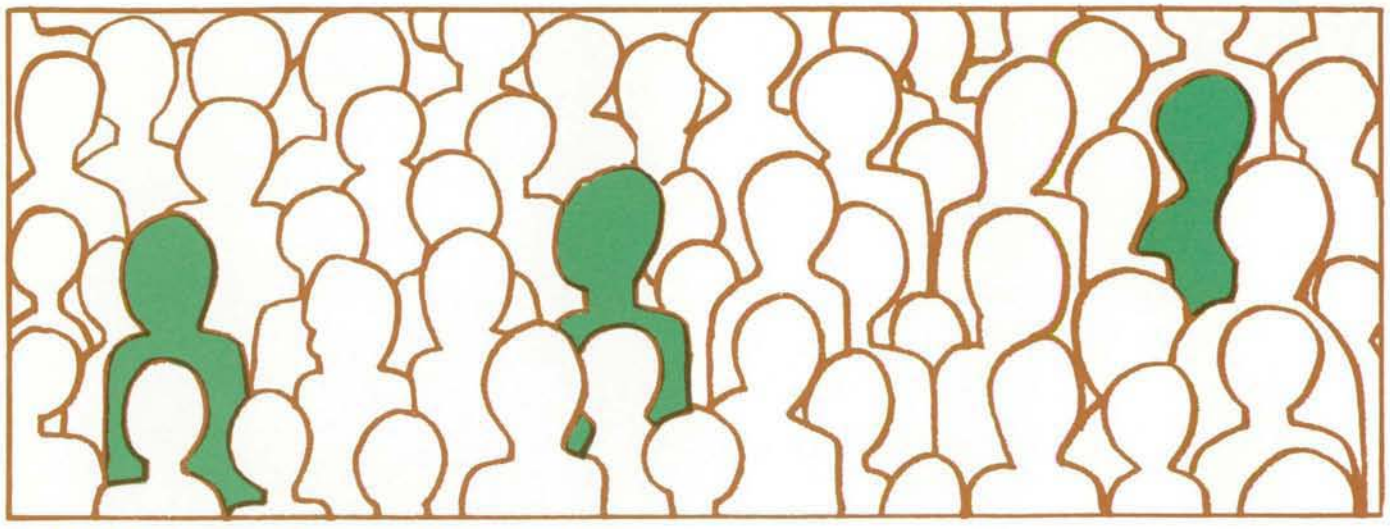


In 1880, 44 percent of the population lived on farms.

1880 Farm Profile

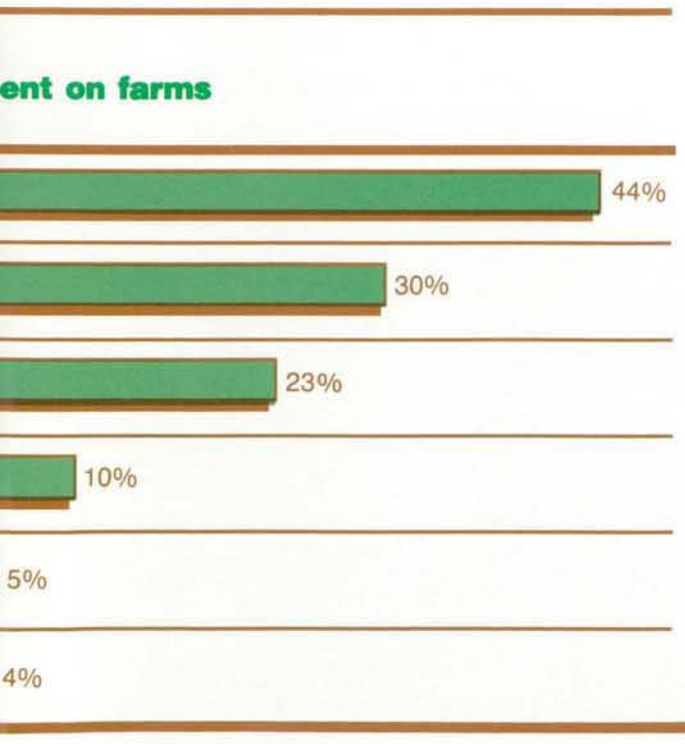
- 4.0 million farms
- 536 million acres
- Average size: 134 acres
- 100% family owned
- Average age of operator: 39.5 years
- Sold $2.2 billion of agricultural products
- Average sales: $552

Year	Population	Pe
1880	50,262,000	
1920	106,461,000	
1940	132,122,000	
1959	177,830,000	
1969	202,677,000	
1982	231,257,000	



By 1982, only about 3 percent lived on farms.

1982 Farm Profile



- 2.2 million farms
- 987 million acres
- Average size: 440 acres
- 89% family owned
- Average age of operator: 50.5 years
- Sold $132 billion of agricultural products
- Average sales: $58,858

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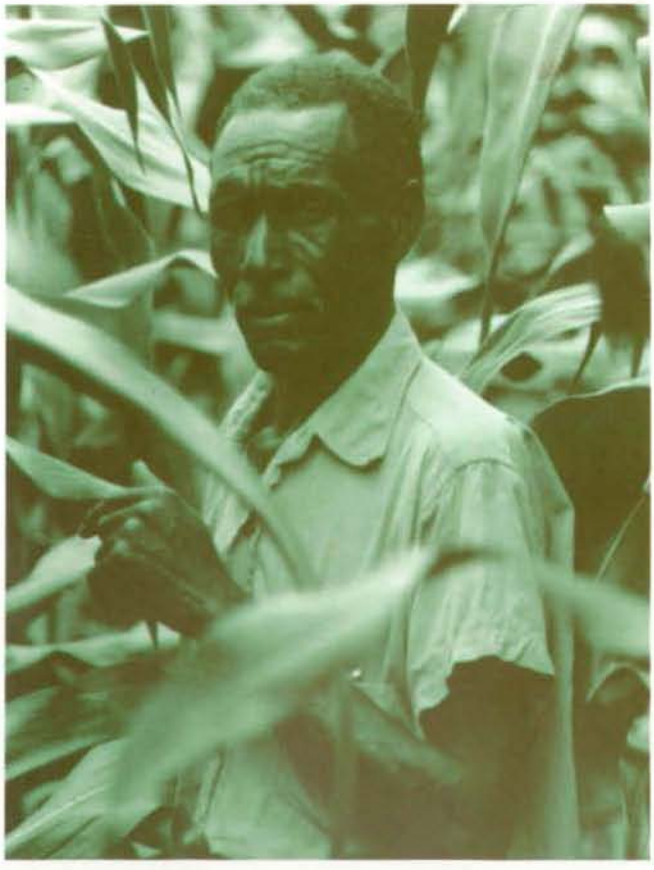
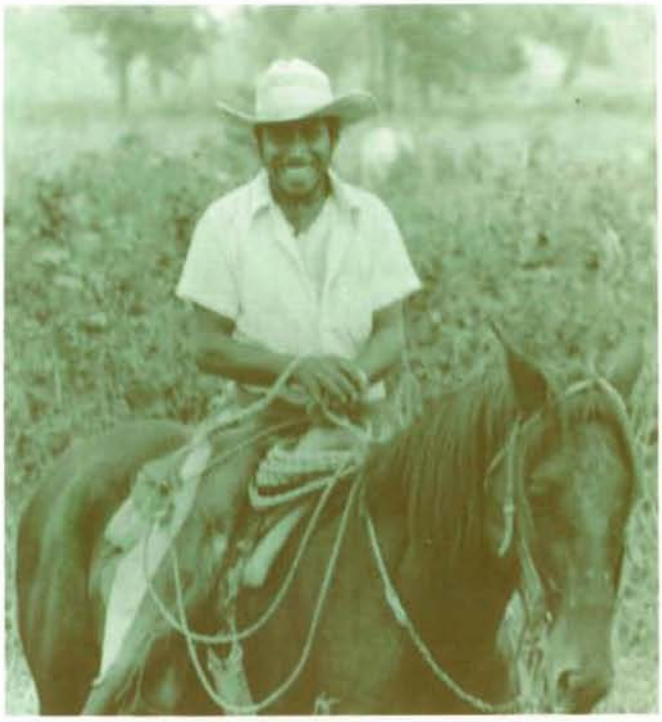
Minorities and Women Who Operate Farms in America

Farms operated by Blacks and other minority races dropped from 58,000 in 1978 to 54,000 in 1982. All the decline involved Black operators, mostly in the South.

The number of American Indian, Asian, and other minority operators all increased slightly between 1978 and 1982, mostly in the West.

Farms operated by persons of Spanish origin decreased by about 1,400 since 1978 to just over 16,000 in 1982.

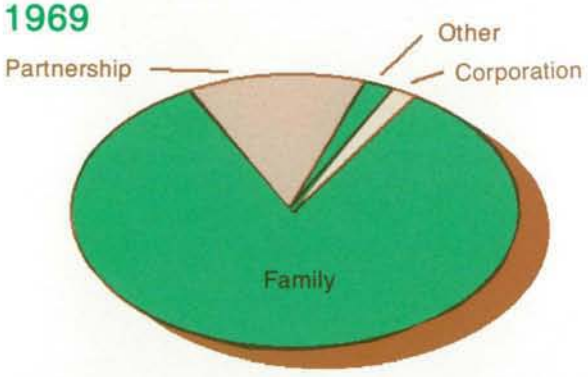


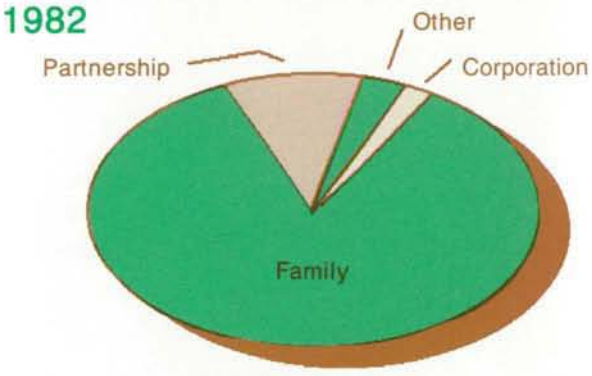


Over 120,000 farms were operated by women in 1982, a 7-percent increase from 1978. These farms represent 5 percent of all farms in number, but only 2 percent of products sold. Thirty percent of these farms had sales greater than $10,000. Thirty-two percent were operated by women 65 years of age and over.

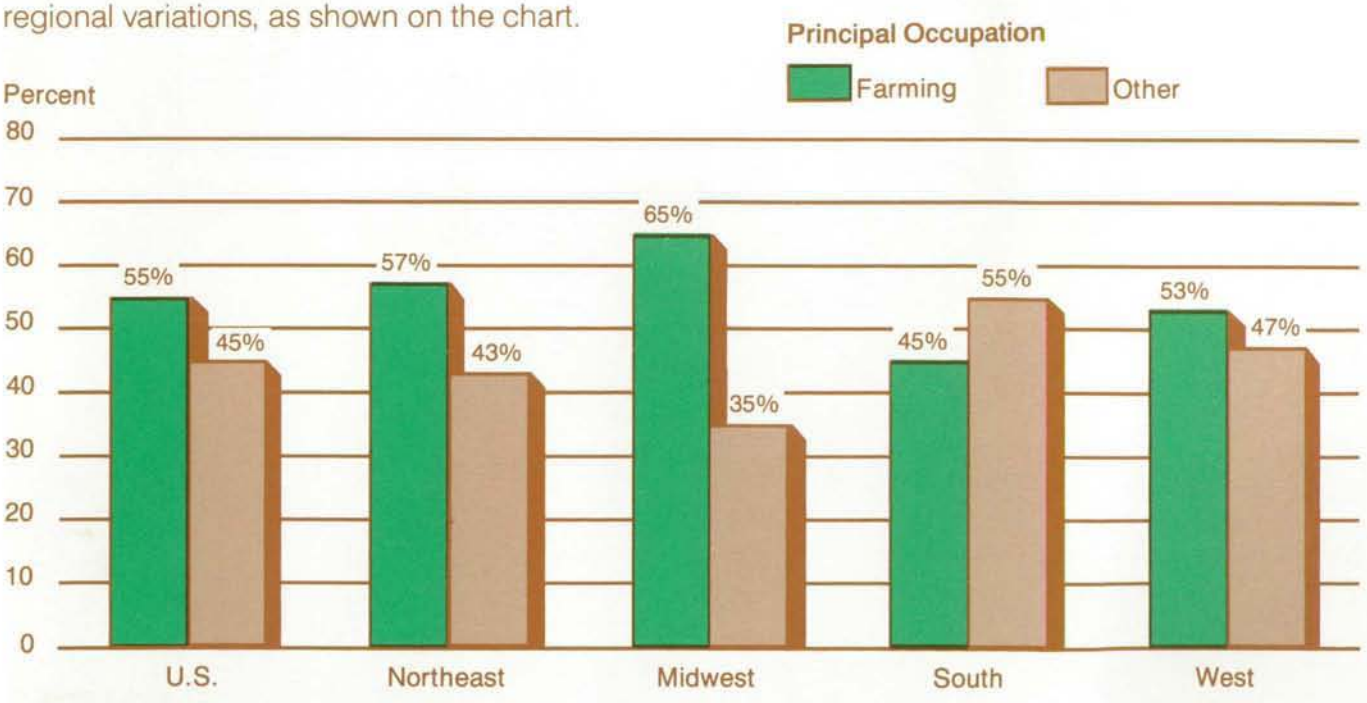
America's Family Farms

Through sociological, economical, and agricultural changes, one American tradition remains relatively constant–the family farm. A whopping 89 percent of our farms are family held. Even incorporated and partnership farms are basically family oriented. The chart below tells the story.





Farming is the principal occupation of 55 percent of all farm operators, but there are regional variations, as shown on the chart.



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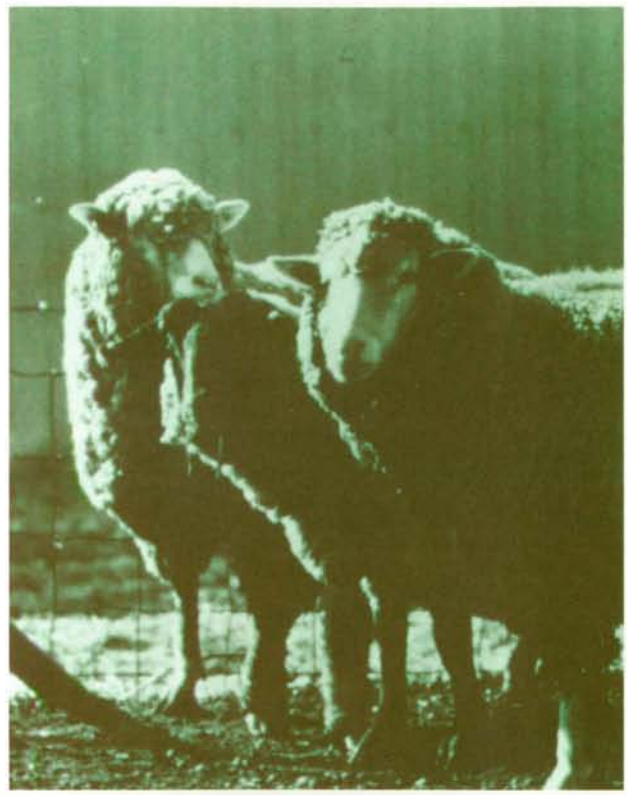
The American Farm is Changing

From 1978 to 1982, the number of small and large farms increased, while medium-sized farms decreased.

The growing trend of small American "hobby" or part-time farmers has caused the number of horses, sheep, milk goats, rabbits, and bees to increase, especially on farms of less than 50 acres.



Census Bureau Mission

In its best interests, a civilized nation counts and profiles its people and institutions. Doing so ably and objectively is the abiding mission of the United States Census Bureau. We honor privacy, shun partisanship, invite scrutiny, and share our expertise globally. Striving to excell, we chronicle the Nation's past, describe its present, and illuminate its future.

Additional Information

For additional county, State, and national census data on agriculture, contact:

Agriculture Division
Bureau of the Census
U. S. Department of Commerce
Washington, D. C. 20233
301–763–1113

Issued August 1986

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Special Report Series

1984 Farm and Ranch Irrigation Survey

Prepared for

U.S. DEPARTMENT OF AGRICULTURE
Economic Research Service

Issued June 1986

U.S. Department of Commerce
Malcolm Baldrige, Secretary
Clarence J. Brown, Deputy Secretary
D. Bruce Merrifield, Acting Under Secretary for Economic Affairs

BUREAU OF THE CENSUS
John G. Keane, Director

ACKNOWLEDGMENTS—Many persons participated in conducting the 1984 Farm and Ranch Irrigation Survey. The report was prepared in the Agriculture Division under the general supervision of **Charles P. Pautler, Jr.,** Chief.

Members of the U.S. Department of Agriculture, Economic Research Service provided substantial direction in the content of the survey. The U.S. Geological Survey contributed to the planning process.

Several divisions at the Bureau of the Census contributed to this report. Publications Services contributed in publication planning, design, editorial review, and printing procurement. Administrative Services provided forms design. Data Preparation contributed in processing, review, and keying of data and necessary corrections. Computer Services provided the computer processing facilities.

Particular tribute is paid to the thousands of farm and ranch operators and their employees who furnished the information requested. Only through their cooperation was it possible to collect and publish the data in this report.

Library of Congress Cataloging-in-Publication Data

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If you have any questions concerning the statistics in this report, call (301) 763-5230.

CONTENTS

INTRODUCTION

PURPOSE AND SCOPE OF THE SURVEY

The 1984 Farm and Ranch Irrigation Survey was conducted to supplement the basic irrigation data collected from all farm operators in the 1982 Census of Agriculture. This survey was conducted on a sample basis to provide detailed data relating to on-farm irrigation practices without burdening all farm operators. Included in the data are statistics on acres irrigated by category of land use, acres and yields of irrigated and non-irrigated crops, quantity of water applied and method of application to selected crops, acres irrigated and quantity of water used by source, acres irrigated by type of irrigation water distribution systems, and number of irrigation wells and pumps. Also included are irrigation expenditures in 1984 for maintenance and repair of irrigation equipment and facilities; purchase of energy for on-farm pumping of irrigation water; investment in irrigation equipment, facilities, and land improvement; and costs of water received from off-farm water suppliers.

Irrigation data from this survey used in conjunction with irrigation data from the 1982 Census of Agriculture provide a relatively complete and detailed picture of irrigation in the conterminous United States.

The sample of irrigators selected for this survey was selected from irrigated farms identified in the 1982 Census of Agriculture excluding all irrigators in 1982 in Alaska, Hawaii, and abnormal and horticultural specialty farms in the 48 conterminous States. Therefore, 17,532 irrigators were excluded from sample selection for this survey. Most of the excluded irrigated farms were horticultural specialty farms and accounted for 889,645 acres irrigated or 1.8 percent of the land irrigated in 1982.

In addition, results of the survey show that 15,677 irrigators in 1982 with 1.3 million acres irrigated discontinued irrigating for 1984. No attempt was made to identify and select new irrigators for 1984.

Selected irrigation data for on-farm irrigation have been collected in the census of agriculture since 1890. A census of farms reporting irrigation in the 1900 Census of Agriculture was authorized by Congress. Surveys of irrigation in humid areas were taken in connection with the 1954 and 1959 censuses. The 1984 Farm and Ranch Irrigation Survey is the second survey devoted entirely to the collection of on-farm irrigation for the conterminous United States. The 1979 Farm and Ranch Irrigation Survey collected similar data using similar methods and procedures of data collection and processing.

AUTHORITY AND AREA COVERED

The census of agriculture is authorized under the provisions of title 13, United States Code. Section 182 authorizes the Secretary of Commerce to conduct surveys deemed necessary to furnish annual or other data on the subjects covered by the census. The 1984 Farm and Ranch Irrigation Survey was conducted under the provisions of this section.

FARM DEFINITION

Since 1850, when minimum criteria defining a farm for census purposes were first established, the farm definition has been changed nine times. The current definition is any place from which $1,000 or more of agricultural products were sold or normally would have been sold during the census year.

WATER RESOURCES AREAS MAP

The map shows water resources areas and aggregated subareas delineated on the basis of county boundaries that approximate actual basin boundaries based on topographic drainage characteristics. Data are tabulated separately for each of the 18 water resources areas shown on the map.

TABULAR PRESENTATION

Table 1 shows farms and acres irrigated for the censuses of 1959 through 1982 for each State summarized by census divisions and regions. Tables 2 through 22 present detailed irrigation data collected in the survey from irrigators who reported irrigated land in the 1982 Census of Agriculture, and also irrigated in 1984. Table 23 presents data for farm operators who irrigated in 1982, but discontinued irrigation either temporarily or permanently in 1984 while continuing to operate a farm or ranch.

Tables 2 through 23 present data from the 1984 Farm and Ranch Irrigation Survey separately for each of 20 principal irrigating States, the 28 Eastern States combined, and for each of the 18 water resources areas.

CENSUS DISCLOSURE RULES

In keeping with the provisions of title 13, United States Code, no data are published that would disclose the operations of an individual farm. However, the number of farms in a given size category or other classification is not considered a disclosure.

DEFINITIONS AND EXPLANATIONS

Definitions and explanations of selected terms used in the tables are further defined in the General Explanation.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used throughout the tables:

— Represents zero.

(D) Data withheld to avoid disclosing information for individual farms.

(NA) Not available.

WRA Water Resources Areas.

cwt. Hundredweight.

GENERAL EXPLANATION

PLANNING AND DEVELOPMENT

Plans for the survey were made cooperatively by staffs of the U.S. Department of Commerce, Bureau of the Census, Agriculture Division and the U.S. Department of Agriculture, Economic Research Service, Natural Resources Economics Division. Representatives of the two agencies met several times in 1984 to determine the size of the sample, as well as content and format of the questionnaire. It was decided for comparability of data and efficiency of data collection and processing to follow the same basic methods and procedures used in taking the 1979 Farm and Ranch Irrigation Survey. Financial constraints dictated that the size of the sample be reduced from approximately 32,000 irrigators selected in the 1979 survey to 16,546 irrigators selected for the 1984 survey. The content of the form was changed to include additional data, such as quantity of water applied and method of application to selected crops, while several data items included in the 1979 survey form were eliminated or simplified.

METHOD OF ENUMERATION AND DATA COLLECTION

The 1984 Farm and Ranch Irrigation Survey was conducted by mail for maximum economy, supplemented by telephone calls to selected nonrespondents. The sample of 16,546 report forms were mailed in February 1985. The initial mail package included a report form and a transmittal letter requesting prompt response. The operators were asked to complete and mail the report form to the Bureau of the Census. The initial mailing was followed by three mail followups between the first week of March and the last week of April. The second and third mail followups included only report forms, while the first followup consisted of a reminder letter and a pamphlet explaining why the survey was being taken. Telephone calls were made at the conclusion of the enumeration period to all nonrespondents with large irrigated acreage and selected smaller irrigation operations as reported in the 1982 Census of Agriculture.

Data collection was completed in August 1985 with an 81 percent response. For a description of the adjustment for nonresponse, see **Statistical Methodology.**

DATA PROCESSING

All report forms were subjected to a review prior to data keying to identify cases with inconsistencies and to ensure ability to key the data. Major inconsistencies, incorrect entries, blank forms, and large irrigation cases were reviewed by statisticians and corrected before the data were keyed. Data from each report form were processed through a detailed item-by-item computer edit. The edit included comprehensive checks for consistency and reasonability of reported and corrected data. The edit imputed missing data and made adjustments based on similar size farms within the same geographic area. Data entries of large magnitude and data items changed significantly in the computer edit process were again reviewed by statisticians and verified or corrected.

Prior to publication, tabulated totals were reviewed to identify remaining inconsistencies and potential coverage problems. Comparisons were made to 1982 census data and other check data. Selected report forms were reviewed and problem entries were either verified or corrected.

COMPARABILITY OF DATA

Data users need to be aware of the differences between the expanded results of the 1984 Farm and Ranch Irrigation Survey and published data from the 1982 Census of Agriculture. Some of these are:

1. The survey does not include irrigators in Alaska or Hawaii. The sample selection also excluded horticultural specialty and abnormal farms in the 48 conterminous States. The effect of the excluded farms is:

	Irrigated farms	Acres irrigated
1982 U.S. totals	**278 277**	**49 002 433**
Excluded from survey	17 532	889 645
Eligible for selection in survey	260 745	48 112 788

2. The survey includes data only for operators who irrigated in 1982 and in 1984. Farmers in some areas, especially the Eastern States, irrigate intermittently according to moisture needs. Farmers having irrigation capabilities may not irrigate depending on the amount of rainfall for a particular year or geographic area. The number of farmers who irrigated in 1982, but discontinued irrigation in 1984, are tabulated in table 23 by reason of discontinuance.
3. Some farm operators indicated that they had been misclassified as irrigators and did not irrigate in either 1982 or 1984.

   An estimated 11,200 operators that were classified as irrigators in the 1982 census responded that they did not irrigate in 1984 nor in 1982. In addition to errors in processing data, some farmers misreported or misinterpreted

the questions. Most of the farmers misreporting irrigation in the 1982 census reported irrigation of small acreages of vegetables, fruits and nuts, tobacco, potatoes, or berries. Small amounts of water were applied to these crops at the time of transplanting.

4. Some respondents indicated that they had quit farming, retired, moved, gone bankrupt, etc., since 1982. For these cases, if the former operator was a large irrigator and a successor operator was identified, a search was conducted to determine if the successor operator was included as an irrigator in the 1982 census. If the successor operator was found to be an irrigator in the 1982 census, no attempt was made to obtain an irrigation report, as the successor operator had a statistical chance of being included in the sample. If the successor operator was not an irrigator in the 1982 census, an attempt was made to obtain a report by mail or telephone.

   In some cases, former operators responding did not indicate if there was a successor operator in 1984, and in other cases successors were indicated but not identified. Any irrigation that occurred on these places is excluded from the survey results. No attempt was made to substitute for former operators (not replaced by reports from successors) who were no longer farming in 1984.

5. New irrigators in 1984 (not included in the 1982 census) did not have a statistical chance of being selected in the sample and, therefore, are excluded from the survey. It is believed that high energy costs and relatively low crop prices have diminished the rate of irrigation expansion over recent years, so the impact of new irrigators is probably minimal. This conclusion is supported by comparisons between the 1978 and 1982 censuses which show little change in acres of irrigated cropland harvested.

When comparing the number of farms and irrigated acres between the 1984 survey and the 1982 census published U.S. totals, most of the differences are for farms reporting less than 100 acres irrigated. This is expected since the excluded horticultural farms average about 20 acres irrigated per farm and the other categories of discontinued or excluded irrigators generally are smaller than average irrigators. Table A shows acres irrigated in the 1984 survey (expanded) compared with U.S. totals from the 1982 census. The expanded survey accounts for 91.3 percent of all land reported as irrigated in the 1982 census and all irrigation characteristics associated with that land.

Table A. Comparison of Irrigated Farms and Acres by Acres Irrigated: 1984 Survey With 1982 Census

Item		1984 survey (expanded)		
		Total	Percent of 1982 census totals	1982 published U.S. totals
Land irrigated	farms..	212 354	76.3	278 277
	acres..	44 730 913	91.3	49 002 433
1 to 9 acres	farms..	36 778	50.5	72 793
	acres..	174 339	63.6	274 317
10 to 49 acres	farms..	55 563	77.3	71 863
	acres..	1 340 537	78.2	1 714 587
50 to 99 acres	farms..	27 749	84.9	32 693
	acres..	1 967 944	86.0	2 287 180
100 to 199 acres	farms..	31 957	85.5	37 371
	acres..	4 433 494	85.3	5 198 943
200 to 499 acres	farms..	38 865	97.0	40 064
	acres..	11 953 901	96.6	12 377 487
500 to 999 acres	farms..	14 258	91.7	15 555
	acres..	9 691 046	92.0	10 533 030
1,000 acres or more	farms..	7 184	90.5	7 938
	acres..	15 169 652	91.3	16 616 889

DEFINITIONS AND EXPLANATIONS

This section provides definitions and explanations of selected items and terms that are used on the report forms or in the tables. A copy of the 1984 Farm and Ranch Irrigation Survey report is reproduced in appendix A for reference.

Water Resources Areas (WRA)

Data from the 1984 Farm and Ranch Irrigation Survey were tabulated by WRA. Boundaries of these areas are shown in the map on page XVII. These boundaries are essentially the same as the water resources regions (WRR) as delineated and defined in the past by the U.S. Water Resources Council. The areas differ somewhat from the regions because of the method used for boundary delineation. Region boundaries are delineated on the basis of topographic drainage characteristics, whereas, areas are delineated on the basis of county boundaries which approximate actual drainage-basin boundaries.

Geographic descriptions of each water resources region that can be used to approximate the area included in each water resources area are:

01 New England Region—The drainage within the United States that ultimately discharges into the Bay of Fundy and the Atlantic Ocean. These points of discharge are located within and between Maine and Connecticut; Long Island Sound and the St. Francis River, a tributary of the St. Lawrence River.

02 Middle Atlantic Region—The drainage within the United States that ultimately discharges into the Atlantic Ocean, whose point of discharge is located within and between New York and Virginia, and the Richelieu River, a tributary of the St. Lawrence River.

03 South Atlantic-Gulf Region—The drainage that ultimately discharges into the Atlantic Ocean, whose point of discharge is located within and between North Carolina and Florida; and the Gulf of Mexico, whose point of discharge is located within and between Florida and Mississippi, including the Pearl River.

04 Great Lakes Region—The drainage within the United States that discharges into the Great Lakes system, including the Lakes' surfaces; and the St. Lawrence River as far east as, but excluding the Richelieu River.

05 Ohio Region—The drainage of the Ohio River, excluding that of the Tennessee River.

06 Tennessee Region—The drainage of the Tennessee River.

07 Upper Mississippi Region—The drainage of the Mississippi River above the mouth of the Ohio River, but excluding the drainage of the Missouri River above a point immediately below the mouth of the Gasconade River.

08 Lower Mississippi Region—The drainage of the Mississippi River below the mouth of the Ohio River, but excluding the drainage of the Arkansas, White, and Red Rivers and above the points of highest backwater affects of the Mississippi River in those parts; and the coastal streams, other than the Mississippi River, that discharge into the Gulf of Mexico from the boundaries of, but excluding the Pearl and Sabine Rivers.

09 Souris-Red-Rainy Region—The drainage within the United States of the Souris, Red, and Rainy Rivers.

10 Missouri Region—The drainage within the United States of the Missouri River above a point immediately below the mouth of the Gasconade River and the Saskatchewan River.

11 Arkansas-White-Red Region—The drainage of the Arkansas River above the point of highest backwater affect of the Mississippi River, the Red River above the point of highest backwater affect of the Mississippi River, and the White River above the point of highest backwater affect of the Mississippi River near Peach Orchard Bluff, AR.

12 Texas-Gulf Region—The drainage that discharges into the Gulf of Mexico from and including Sabine Pass to, but excluding the Rio Grande and the Lower Rio Grande Valley.

13 Rio Grande Region—The drainage within the United States of the Rio Grande; the San Luis Valley, North Plains, San Augustine Plains, Mimbres, Estancia Jonado del Muerto, Tularosa, Salt, and various smaller closed basins; and the Lower Rio Grande Valley.

14 Upper Colorado Region—The drainage of the Colorado River above the Lee Ferry Compact Point, which is about 1 mile below the mouth of the Paria River; and the Great Divide closed basin.

15 Lower Colorado Region—The drainage within the United States of the Colorado River below the Lee Ferry Compact Point, which is about 1 mile below the mouth of the Paria River; the Rios Yaqui, Magdelena, Sonoita, and other lesser streams that ultimately discharge into the Gulf of California; and the Animas Valley, Wilcox Playa, El Dorado Valley, and other smaller closed basins.

16 Great Basin Region—The drainage of the Great Basin that ultimately discharges into Utah and Nevada.

17 Pacific-Northwest Region—The drainage within the United States that ultimately discharges into the Straits of Georgia and Juan de Fuca and the Pacific Ocean. The point of discharge is within Washington and Oregon, including the Columbia River.

18 California Region—The drainage within the United States that ultimately discharges into the Pacific Ocean, whose point of discharge is within California, which includes the Central Valley; and that portion of the Great Basin and other closed basins in California.

Irrigated Farms

Irrigated farms are those with any agricultural land irrigated in the specified calendar year. The acreage irrigated may vary from a very small portion of the total acreage in the farm to irrigation of all agricultural land in the farm.

Acres Irrigated

Acres irrigated are the acreage of agricultural land to which water was artificially applied by controlled means to include preplant, partial, supplemental, and semi-irrigation. Land flooded during high water periods was to be included as irrigation only if the water was diverted to agricultural land by dams, canals, or other works.

On-Farm Surface Supply

On-farm surface supply is water from a surface source not controlled by a water supply organization. It includes sources such as streams, drainage ditches, lakes, ponds, and reservoirs on or adjacent to the operated land.

Off-Farm Water Supply

Off-farm water supply is water from off-farm water suppliers, such as U.S. Bureau of Reclamation; irrigation districts; mutual, private, cooperative, or neighborhood ditches; commercial companies; or community water systems.

Acre-Feet

An acre-foot of water is the quantity of water required to cover 1 acre to a depth of 1 foot. This is equivalent to 43,560 cubic feet or 325,850 gallons.

Flowing or Artesian Wells

Flowing or artesian wells are wells which flow freely and provide water used for irrigation without the pumping associated with pumped wells. There were no provisions made on the report form to report flowing or artesian wells. Therefore, all of these wells had to be identified during the processing of the survey from remarks or other indications made by the respondent. Where respondents indicated a well was flowing or artesian and did not require pumping, it was classified to be free flowing.

Hence, all flowing or artesian wells were excluded from pumping data on tables 9 and 10. This should be taken under consideration when using the data from these two tables.

Land in Farms

Acreage designated in the tables as "land in farms" consists primarily of agricultural land used for crops, pasture, or grazing. Also, it includes woodland and wasteland not actually under cultivation or used for pasture or grazing, provided it was part of the farm operator's total operation. Large acreages of woodland or wasteland held for nonagricultural purposes were deleted from individual reports during the processing operations.

Land in farms is an operating unit concept that includes land owned and operated as well as land rented from others. Land used rent free was to be reported as land rented from others. All grazing land, except land used under government permits on a per-head basis, was included as "land in farms" provided it was part of a farm or ranch.

Total Cropland

Total cropland includes all harvested cropland, cropland used only for pasture, and other cropland.

Harvested Cropland

Harvested cropland is land from which crops were harvested or hay was cut; and land in orchards, citrus groves, vineyards, nurseries, and greenhouses. Land from which two or more crops were harvested was counted only once, even though there was more than one use of the land.

Cropland Used Only for Pasture

Cropland used only for pasture is land used only for pasture or grazing that could have been used for crops without additional improvement, and all land planted in crops that were grazed before the crops reached maturity. Also included was all cropland used for rotation pasture and land in government diversion

programs that was pastured. However, cropland that was pastured before or after crops were harvested was not included.

Other Cropland

Other cropland is cropland used only for soil improvement crops, land on which all crops failed, cultivated summer fallow, idle cropland, and land planted in crops that were to be harvested after the census year.

Woodland

Woodland includes both woodland pastured and not pastured. For census purposes, woodland includes natural or planted woodlots or timber tracts and cutover and deforested land with young growth that has or will have value for wood products. Land covered by sagebrush or mesquite was reported as other pasture or other land.

Other Land

Other land includes land in house lots, barn lots, ponds, roads, and wasteland.

Value of Agricultural Products Sold

The value of agricultural products sold represents the gross market value before taxes and production expenses of all agricultural products sold or removed from the place in 1982 regardless of who received the payment. It includes sales by the operator as well as the value of any shares received by partners, landlords, contractors, and others associated with the operation. The value of agricultural products sold represents the sum of all crops including nursery products sold, and livestock and poultry and their products sold. It does not include income from farm-related sources, such as customwork or agricultural services, or income from nonfarm sources. These data were taken from the 1982 Census of Agriculture report form for survey respondents.

The value of agricultural products sold in 1982 does not necessarily represent the sales from crops harvested in 1982. Data include sales from crops produced in earlier years and exclude some crops produced in 1982, but held in storage and not sold in 1982. For crops sold through a co-op which made payments in several installments, only the total payments received in 1982 were to be reported.

The value of agricultural products sold was collected from all operators. Where the operator failed to report a value of sales, estimates were made based on the amount of crops harvested, or the number of livestock or poultry sold. Extensive estimation was required for operators growing crops or livestock under contract.

Acres and Quantity Harvested

If two or more crops were harvested from the same land during the year, the acres would be counted for each crop. Therefore, the total acres of all crops harvested generally exceeds the acres of harvested cropland. The exception to this procedure is hay crops. When more than one cutting of hay was taken from the same acres, the acres were counted only once, but the quantity harvested included hay from all cuttings. For interplanted crops or "skip-row" crops, acres were to be reported according to the portion of the field occupied by each crop.

If a crop was planted but not harvested, the acreage was not to be reported as harvested. These acres were to be reported in the "land use" section under the appropriate cropland items—cropland used only for pasture or grazing or other cropland.

Acres of land in bearing and nonbearing orchards—citrus or other groves, vineyards, and nut trees—were to be reported as harvested cropland regardless of whether the crop was harvested or failed. However, abandoned orchards were to be reported as cropland idle, not as harvested cropland or for the individual crop acreages.

Crop Unit of Measure

Respondents were instructed to report each crop in the same unit of measure in all areas. For example, corn for grain or seed was reported in bushels shelled, and rice was reported in hundredweight.

Farms by Standard Industrial Classification

Irrigated farms and ranches are classified by standard industrial classification (SIC), as described in the 1972 SIC Manual. This classification was designed to promote uniformity and comparability for statistical data collected by various agencies. An establishment (farm, ranch, nursery, greenhouse, etc.) primarily engaged in crop production (major group 01) or livestock production (major group 02) is classified in the three- or four-digit industry group, which accounts for 50 percent or more of the total value of sales from agricultural products. If the total value of agricultural products sold by an establishment was less than 50 percent from a single four-digit industry, but 50 percent or more from the products of two or more four-digit industries within the same three-digit industry group, the establishment was classified in the miscellaneous industry of that industry group; otherwise, it was classified as a general crop farm in industry 0191 or a general livestock farm in industry 0291.

All farms in the 1982 census were classified by SIC. Classifications of irrigated farms by selected SIC groupings are shown in table 20. The SIC code was obtained from the 1982 Census of Agriculture report form for survey respondents.

Principal Irrigating States

For purposes of comparability with the 1979 Farm and Ranch Irrigation Survey and with historical series of irrigation data, the 20 principal irrigating States are the same as those in the 1979 survey. These states are: Arizona, Arkansas, California, Colorado, Florida, Idaho, Kansas, Louisiana, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming. Data are tabulated separately for each.

However, it should be noted that irrigation expansion into Midwestern and Southern States in recent years have changed the traditional rankings of the leading irrigating States. Georgia, Mississippi, Missouri, Minnesota, Michigan, and Wisconsin are expanding rapidly in irrigation and now exceed some of the traditional 20 principal irrigating States in irrigated land. Table B shows the 20 leading States in irrigated land according to the 1982 Census of Agriculture.

Abnormal Farms

Abnormal farms were not included in the survey universe. These are institutional, experimental research farms, and Indian reservations. Institutional farms include those operated by hospitals, penitentiaries, churches, schools, grazing associations, etc. In 1982, 564 abnormal farms accounted for 355,000 acres irrigated or less than 1 percent of all acres irrigated in the United States.

Table B. Leading Irrigation States: 1982 and 1978 Censuses of Agriculture

[For meaning of symbols, see introductory text]

Geographic area	Acres		Rank		1982 cumulative percent of U.S. total
	1982	1978	1982	1978	
United States	**49 002 433**	**50 349 906**	**(X)**	**(X)**	**100.0**
20 leading States	**46 052 713**	**47 832 613**	**(X)**	**(X)**	**94.0**
California	8 460 508	8 505 824	1	1	17.3
Nebraska	6 039 292	5 682 931	2	3	29.6
Texas	5 575 553	6 947 079	3	2	41.0
Idaho	3 450 443	3 475 392	4	4	48.0
Colorado	3 200 942	3 430 860	5	5	54.5
Kansas	2 675 167	2 685 757	6	6	60.0
Montana	2 023 003	2 069 531	7	7	64.1
Arkansas	2 022 695	1 683 413	8	10	68.3
Oregon	1 807 882	1 880 833	9	9	71.9
Washington	1 638 470	1 639 189	10	12	75.3
Florida	1 585 080	1 979 814	11	8	78.5
Wyoming	1 564 576	1 661 558	12	11	81.7
Arizona	1 097 825	1 195 727	13	13	84.0
Utah	1 082 328	1 168 621	14	14	86.2
Nevada	829 761	881 151	15	16	87.9
New Mexico	807 206	890 610	16	15	89.5
Louisiana	693 698	681 056	17	17	90.9
Georgia	575 306	462 850	18	19	92.1
Oklahoma	492 077	601 723	19	18	93.1
Mississippi	430 901	308 694	20	22	94.0

STATISTICAL METHODOLOGY

The estimates for this survey are based on a probability sample of farms that irrigated in 1982 and were identified in the 1982 Census of Agriculture.

Universe

The population of farms from which the survey sample was selected includes all irrigated farms identified in the 1982 Census of Agriculture excluding farms in Alaska, Hawaii, and abnormal or horticultural specialty farms. The farms excluded by definition represent 6.3 percent of the total number of irrigators and 1.8 percent of the irrigated land reported in the 1982 census. The universe covered by this survey does not include farms that have begun operating since 1982 or did not report any irrigation in the 1982 census. Also, the survey estimates do not account for farms having successors in 1984 from which survey data could not be obtained. This universe of farms includes a small number of farms which were erroneously identified as irrigating in 1982 due to respondent error and census processing errors. Table C provides measures of initial mailout and final reports received as well as the number of farms eligible for the 1982 Census of Agriculture.

Sample Design

The 1984 survey sample was designed and selected to be large enough to provide reliable estimates at the U.S. level, for each of the 18 water resources areas, for each of 20 principal irrigating States, and for the 28 Eastern States combined.

The sample included all farms identified as irrigating 1,500 acres or more in Nebraska, Montana, Oklahoma, Oregon, and Washington; 2,000 acres or more in Arkansas, Colorado, Idaho, and Texas; 2,500 acres or more in Florida and Kansas; 3,000 acres or more in Arizona and California; 5,000 acres or more in Nevada; and 1,000 acres or more in all other States. A total of 2,595 of the farm operations were included in the sample with certainty.

All other irrigated farms were stratified on the basis of: (1) State; (2) water resources area (WRA); and (3) the number of irrigated acres. The delineation of farms with respect to the number of irrigated acres differed from State to State. Within each of these strata, a systematic sample of farms was selected. The samples were selected independently by stratum and a different sampling interval was used in each stratum. From these strata, a total of 13,951 farms were selected.

The total sample of 16,546 irrigators represented approximately 6 percent of the 260,745 irrigated farms reported in the 1982 Census of Agriculture (excluding Alaska, Hawaii, and abnormal and horticultural specialty farms) and accounted for 27 percent of the 48.1 million acres of irrigated land.

Estimation

Estimates for the survey were computed by weighting the data for each respondent irrigator by an expansion factor equal to the initial sampling interval adjusted for whole farm nonresponse.

There were 284 nonrespondents from the certainty stratum at the completion of all attempts to follow up nonrespondents by mail and telephone. To adjust the data for these nonrespondents, the 252 nonrespondents in the certainty stratum that were identified in the 1982 Census of Agriculture as irrigating less than 2,000 acres in North Dakota and South Dakota; less than 3,000 acres in Oklahoma, New Mexico, Utah, Montana, and Arizona; less than 4,000 acres in Louisiana and Oregon; less than 5,000 acres in Nebraska, Kansas, Florida, Arkansas, Texas, Iowa, Wyoming, Colorado, and Nevada; less than 10,000 acres in California; and less than 4,000 acres in all other States were grouped by State and number of 1982 irrigated acres within the

Table C. Irrigated Farms: 1984 Survey and 1982 Census

Geographic area	1984 survey						1982 census			
	Initial mailout counts		Final reports processed and tabulated				Published totals		Sample universe[1]	
			Unexpanded		Expanded					
	Farms	Acres irrigated (1,000)	Farms[2]	Acres irrigated (1,000)	Farms[3]	Acres irrigated (1,000)	Farms	Acres irrigated (1,000)	Farms	Acres irrigated (1,000)
Conterminous United States	**16 546**	**12 774**	**11 499**	**9 534**	**226 031**	**44 731**	**278 277**	**49 002**	**260 745**	**48 113**
17 Western States, Arkansas, Florida, and Louisiana	**13 155**	**11 971**	**9 396**	**8 959**	**203 842**	**42 046**	**237 544**	**45 586**	**228 414**	**44 938**
Arizona	793	404	531	299	3 685	893	4 437	1 098	4 288	1 050
Arkansas	331	260	204	174	5 279	1 872	6 678	2 023	6 575	2 020
California	1 868	3 013	1 369	2 375	49 939	7 805	58 389	8 461	55 985	8 367
Colorado	600	598	468	400	14 102	3 105	15 232	3 201	14 907	3 159
Florida	1 151	928	738	875	6 713	1 438	10 550	1 585	7 868	1 443
Idaho	689	634	504	439	15 743	3 255	17 355	3 450	17 164	3 408
Kansas	371	390	250	274	6 342	1 315	7 257	2 675	7 159	2 673
Louisiana	284	163	173	116	2 850	579	3 693	694	3 460	691
Montana	511	516	380	416	8 468	1 877	9 226	2 023	9 137	1 995
Nebraska	521	658	375	468	20 365	5 828	22 190	6 039	22 101	6 029
Nevada	660	619	493	426	1 953	698	2 154	830	2 117	797
New Mexico	757	303	545	197	6 369	674	6 918	807	6 806	728
North Dakota	187	66	126	41	660	144	762	163	735	161
Oklahoma	415	167	261	115	2 227	440	3 069	492	2 922	487
Oregon	935	694	719	557	12 984	1 776	15 334	1 808	14 470	1 776
South Dakota	193	88	142	66	1 630	339	1 815	376	1 786	373
Texas	706	1 081	477	670	15 829	4 921	19 775	5 576	19 002	5 553
Utah	579	191	430	128	10 335	1 054	11 174	1 082	11 039	1 056
Washington	949	479	703	358	13 588	1 482	16 252	1 638	15 652	1 616
Wyoming	655	719	508	565	4 781	1 550	5 284	1 565	5 241	1 556
All other States	**3 391**	**803**	**2 103**	**575**	**24,189**	**2 685**	**40 733**	**3 416**	**32 331**	**3 176**

[1]Excludes Alaska, Hawaii, and abnormal and horticultural specialty farms.
[2]Includes 784 farms that discontinued irrigation since 1982.
[3]Includes 15,677 farms that discontinued irrigation since 1982.

State. Nonrespondent adjustment factors were computed for each of these groups and applied to the respondent data. Data for the remaining 32 nonrespondents in the certainty stratum were manually imputed using the 1982 census report forms and information from similar farms which responded to the 1984 Farm and Ranch Irrigation Survey.

The nonresponse adjustment for farms in the noncertainty strata was performed in two stages. In the first stage, a sample of nonrespondents was chosen and followed up by telephone. The telephone interview was used to determine if the nonrespondent irrigated any land in 1982.[1] This sample was used to estimate the number of nonrespondents at the water resource area level that irrigated in 1982. The proportion of survey respondents who irrigated in 1982 within each water resource subarea was used to allocate the water resource area's estimate of nonrespondent irrigators among the aggregated subareas within a water resources area. These aggregated subareas estimates of nonrespondent irrigators were then used to compute nonresponse adjustment factors for each aggregated subarea. The final weight for each noncertainty respondent was a product of the initial sampling interval and the nonresponse adjustment factor.

[1]See "Universe" on how nonirrigators in 1982 could have been included in this survey.

Nonsampling Errors

Every census or survey is subject to errors. In addition to sampling variability, errors may arise from incorrect or incomplete reporting, processing, and the inability to obtain a report from each eligible reporting unit. All of these errors that may occur, are in addition to sampling errors, and are independent of the sample design.

Some data reported may be incorrect as a result of the misinterpretation of questions or because of the use of estimates in reporting. Data were reviewed for inconsistencies and adjustments were made to data items which appeared to be inconsistent with other items.

Respondents may have failed to provide all of the information requested. In some cases, the respondent may have indicated the presence of an item but not the amount. Imputations were made for missing data on acres irrigated, quantity of water used, method of water distribution, quantities of crops harvested, maintenance and repair costs, cost of water received from off-farm water suppliers, and depths, capacities, and energy cost of wells and pumps. No imputations were made for effects of discontinuance of irrigation on crop yields, expenditures on irrigation facilities, method of deciding when to apply water, and other irrigation uses on the place such as: application of fertilizer, chemicals, or water to prevent freeze damage.

Some eligible reporting units failed to return a questionnaire. Data was imputed for those nonrespondents using data from respondents of similar expected size and in the same geographic area.

Careful efforts were made to keep errors introduced during clerical and electronic processing to a minimum through the use of quality control, verification, and check measures on specific operations.

Sampling Error

The standard error of a survey estimate is a measure of the variation among the estimates from all possible samples and, is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The sample used in this survey was one of a large number of possible samples of the same size that could have been selected using the same sample design. Estimates derived from the different samples would generally differ. The deviation of a sample estimate from the average of all possible samples is called the sampling error.

Estimation of Sampling Error

Sampling error was estimated using a random group method of estimation. When the sample was selected, each sample farm was randomly assigned to one of 20 random groups in such a manner that each random group had a sample design identical to the entire sample. That is, each random group contained the same sample strata as the original sample and the size of each stratum relative to the total number of cases was the same as in the original sample. An estimate of the total was computed from each random group and the variation among these estimates was used to estimate the overall sampling error.

Estimates of sampling variability are expressed as percent relative standard errors and are presented in table D. The estimated percent relative standard error for each estimated total is derived by dividing the estimated standard error for the estimated total by the estimated total and multiplying by 100.

QUALIFICATIONS OF THE DATA

Analysts reviewing the returned report forms and results of computer edit detected a few inquiries which were not uniformally interpreted by all respondents. Data users should be aware that respondent interpretation of some inquiries may affect the final results in their use of these selected statistics. Clarification of data items with potential for reporting errors when incorrectly interpreted by respondents and data impacted by unique problems or definitions are provided below.

Irrigated land—Irrigated land is defined as "all land watered by artificial or controlled means." No attempt has been made to define the degree or intensity of irrigation. Therefore, the figures for irrigated land include land having as little as 1 inch of water applied to land having several feet of water applied.

Nonirrigated crop yields—Data users are reminded that the nonirrigated crop yield averages in table 16 are for nonirrigated crops harvested from farms having land irrigated and may not be comparable with crop yield averages for nonirrigated farms.

Estimated quantity of water applied—Most water used for irrigation is not metered or measured accurately. Therefore, the quantity of water data are on the basis of best estimates provided by irrigators. Generally, in areas of water scarcity such as southern California and Arizona, irrigators are more likely to be able to provide quantities of water used than in Mountain States such as Montana, Wyoming, and Idaho where scarcity of water is less of a problem. Furthermore, in the Mountain States where water from snow melt is diverted for use in season, the amount of water used may at best be a rough estimate, seldom a measured figure.

Application of commercial fertilizers or pesticides in irrigation water—This inquiry was intended to measure the number of farms adding or mixing fertilizer and pesticides to irrigation water as it was being conveyed or distributed to the crop. The tabulated results may overstate this practice because some irrigators have misinterpreted the inquiry to include conventional application of fertilizer and pesticides to the irrigated crop as well as applying chemicals directly into the irrigation water, which carries them to the crop.

Costs of water received from off-farm water suppliers—Irrigators receiving water from off-farm water suppliers are generally required to pay for the water in charges, fees, or assessments. The dollar amount for cost of water was one of the more frequently omitted items on the report form. Computer edit procedures called for imputing an estimate for cost of water based on other reports from the same geographic area. If there were any indications written on the report form that the water was received free, no cost of water was imputed. It is possible that the final tabulated results for this item are overstated, because it was not possible to distinguish cases where the respondent received free water from cases where the cost amount was omitted in error, leading to imputation of a dollar amount. At the national level 19 percent of the farms reporting cost and 13 percent of the total dollar amount was imputed.

Irrigation wells—Some farm operators reported wells used only for domestic or stock as wells "not used" in 1984, meaning not used for irrigation. Where identified for domestic or livestock use, the entry was deleted. Data users are reminded there are additional wells reported as not used in 1984 but capable of being used which may be for domestic or livestock use only.

Artesian wells—A specific entry space was not provided for artesian wells. During processing, all wells which were indicated to be free flowing or artesian were removed from the pumped well section and tabulated as flowing or artesian wells. The data for well pumps excludes any pumps which may have actually been used to pump water from artesian wells.

Irrigation pumps—The inventory figures for number of irrigation pumps on farms reported in table 10 include reserve pumps not actually used in 1984, but excludes any pumps on wells not used in 1984. By defintion, flowing or artesian wells do not have well pumps.

Expenditures for maintenance and repair and investment in irrigation facilities and equipment—The expenditure data reported are expenditures that occurred only in 1984.

Some respondents found it difficult to separate expenditures for maintenance and repairs from investment in irrigation facilities

Table D. Relative Standard Error (Percent) for Selected Irrigation Data: 1984

Geographic and water resources areas	Irrigated farms	Acres in farms	Acres irrigated				Acre-feet of water applied, all sources	Wells used in 1979	Pumps, all types	Expenses for irrigation		
			Total	Cropland harvested	By sprinkler systems	By gravity flow				Energy used for pumping	For wells, pumps, equipment, and facilities	Maintenance and repairs
Conterminous United States	**1.0**	**3.2**	**1.1**	**1.8**	**1.3**	**1.7**	**1.1**	**3.1**	**3.1**	**2.8**	**8.2**	**2.6**
17 Western States, Arkansas, Florida, and Louisiana	**1.0**	**3.3**	**1.2**	**1.9**	**1.5**	**1.7**	**1.1**	**3.4**	**2.8**	**3.0**	**9.1**	**2.7**
Arizona	4.9	21.4	7.8	7.7	17.5	8.4	9.0	9.7	9.1	16.2	22.3	13.7
Arkansas	5.1	8.9	5.9	7.6	32.6	6.3	7.6	6.9	6.5	5.6	23.6	7.0
California	2.0	13.2	2.0	2.6	5.0	3.2	2.2	4.6	3.6	4.1	26.5	4.2
Colorado	2.3	20.4	3.9	7.7	6.8	5.2	4.8	19.3	16.1	9.4	24.0	7.2
Florida	3.3	10.3	3.4	4.1	6.9	5.3	3.2	12.2	11.8	10.2	11.6	6.1
Idaho	3.1	10.8	5.5	5.5	7.4	6.3	6.5	8.0	7.0	8.3	21.8	11.0
Kansas	4.5	10.3	6.9	9.7	9.2	8.3	8.6	9.2	8.1	11.8	24.8	9.4
Louisiana	7.8	7.9	6.7	6.3	28.6	5.9	7.9	10.0	9.6	9.6	21.4	12.9
Montana	3.3	8.7	5.0	9.6	8.4	6.9	7.8	24.0	8.7	10.1	27.7	7.4
Nebraska	6.7	10.3	3.8	5.6	5.8	7.0	4.8	6.4	6.9	6.1	23.3	8.6
Nevada	3.5	9.0	4.1	2.6	8.7	5.0	4.1	30.9	25.9	10.9	13.3	20.9
New Mexico	3.5	12.7	5.6	5.5	6.9	7.4	6.0	5.7	5.8	6.2	16.5	5.2
North Dakota	5.8	9.9	8.8	8.0	10.8	11.9	9.4	19.8	16.1	8.8	51.2	13.0
Oklahoma	4.9	6.2	6.7	8.6	9.3	9.7	8.1	8.7	7.0	10.1	13.5	9.8
Oregon	4.6	10.4	5.0	3.9	4.0	7.5	8.0	34.4	15.4	5.0	16.6	8.1
South Dakota	7.3	15.5	8.4	11.8	11.1	16.3	9.5	17.8	12.1	16.1	45.2	11.5
Texas	4.7	8.5	5.0	5.7	10.0	6.1	5.1	7.5	6.8	7.7	17.0	10.7
Utah	3.1	12.0	4.6	5.0	12.7	5.1	4.5	26.9	12.0	12.2	20.4	9.1
Washington	2.0	10.9	3.0	5.5	4.1	6.2	3.5	6.8	12.4	5.1	12.6	8.8
Wyoming	3.4	10.8	5.1	3.8	14.4	5.9	5.2	19.8	15.8	13.9	15.1	7.9
All other States	**3.1**	**5.2**	**4.8**	**6.0**	**4.6**	**9.6**	**5.3**	**5.3**	**17.9**	**4.0**	**10.3**	**5.0**
WATER RESOURCES AREAS												
WRA 01 New England	2.7	12.4	10.7	12.2	11.2	29.3	18.4	17.2	6.5	10.2	15.5	14.6
WRA 02 Mid-Atlantic	7.8	21.2	8.5	19.4	8.8	58.9	13.9	10.9	10.3	9.2	20.5	13.9
WRA 03 South Atlantic-Gulf	5.9	8.5	3.8	6.9	7.3	5.2	3.3	10.7	9.0	8.4	10.4	6.7
WRA 04 Great Lakes	3.7	5.3	4.9	6.6	5.1	49.5	6.9	10.4	4.8	7.2	12.1	8.5
WRA 05 Ohio	5.8	8.4	6.4	8.7	6.6	41.3	7.8	8.7	8.7	10.3	15.1	12.8
WRA 06 Tennessee	6.7	13.2	14.5	16.3	13.3	65.5	15.1	21.0	11.9	16.5	21.4	27.9
WRA 07 Upper Mississippi	10.0	8.9	9.2	10.9	9.4	100.0	10.0	11.3	8.6	10.4	34.3	10.0
WRA 08 Lower Mississippi	4.8	4.7	4.0	4.4	14.9	4.1	4.0	4.2	19.9	3.9	15.1	4.5
WRA 09 Souris-Red-Rainy	10.9	22.6	11.2	21.8	11.6	36.0	13.9	18.6	15.9	14.6	40.8	26.5
WRA 10 Missouri	3.3	5.4	2.0	4.2	4.1	3.7	2.6	6.9	6.2	4.0	15.0	4.3
WRA 11 Arkansas-White-Red	4.5	15.9	5.4	6.4	8.5	6.7	5.8	8.3	7.9	8.8	18.3	9.2
WRA 12 Texas-Gulf	6.7	9.9	8.0	8.3	11.7	10.2	8.7	7.3	7.0	10.4	23.3	13.5
WRA 13 Rio Grande	6.6	20.5	7.0	12.2	12.8	8.1	7.9	8.7	9.0	7.8	16.9	12.4
WRA 14 Upper Colorado	4.3	10.5	4.6	17.3	14.7	4.8	5.5	29.2	23.0	19.5	31.3	13.5
WRA 15 Lower Colorado	4.9	24.0	6.7	6.7	14.1	7.7	8.2	8.1	7.6	15.7	21.7	12.8
WRA 16 Great Basin	3.1	9.4	4.7	5.4	10.6	4.8	4.0	20.6	15.1	10.0	14.2	10.5
WRA 17 Pacific Northwest	1.4	6.8	2.6	2.9	3.4	4.0	2.9	14.6	7.2	5.0	11.9	5.5
WRA 18 California	2.0	12.6	2.1	2.6	4.7	3.5	2.5	4.6	3.7	4.0	26.2	4.2

and equipment as defined on the report form. For example, replacement of worn out sprinkler nozzles, pumps, and motors could be considered either as repair cost or investment in new equipment. Therefore, data users are reminded that the distinction between the two expenditure categories is blurred for some respondents.

Dollar amounts for maintenance and repair costs were one of the more frequently imputed items in computer edits. Farms with more than 25 acres irrigated or 10 acres irrigated by wells were subjected to imputation of costs if the none box and dollars of repair cost were blank. At the national level, 29 percent of the farms reporting repair cost and 27 percent of the total dollar amount for maintenance and repair costs were imputed.

Method of deciding when to irrigate—This inquiry had not been asked in previous irrigation surveys nor had it been tested. The result is that a large number of respondents reported "other" for method of deciding and specified a method very similar to one of the seven prelisted methods yet slightly different. Generally, no attempt was made to reassign the respondent's entry of "other" to one of the seven specific prelisted methods.

Reason for discontinuance of irrigation since 1982—This inquiry was not reported for 32 of the 784 respondents in the survey, who utilized irrigation in 1982 but not in 1984. Therefore, the data by reason of discontinuance shown in table 23 reflects the expansion of reported entries. Some respondents reported multiple reasons while others were blank.

SUMMARY AND CONCLUSIONS

Irrigated Crops

The principal irrigated crops in the conterminous United States in 1984, according to results of the 1984 Farm and Ranch Irrigation Survey, were corn for grain or seed with 7.7 million acres, alfalfa hay with 5.4 million acres, wheat with 4.0 million acres, cotton with 3.5 million acres, and orchard land with 3.1 million acres. These five leading irrigated crops accounted for 55 percent of the acreage of all irrigated crops. The average irrigated yields were 137 bushels per acre for corn, 4.4 tons per acre for alfalfa hay, 69 bushels per acre for wheat, and 837 pounds of lint for cotton.

Total land irrigated by 212,000 irrigators included in the 1984 survey was 44.7 million acres. The leading State in total acreage of irrigated land is California with 7.8 million acres, followed by Nebraska with 5.8 million acres, and Texas with 4.9 million acres.

Method of Irrigation

There was a total of 44.7 million acres irrigated by different water distribution systems in 1984. Approximately 1.1 million acres were irrigated by more than one of the nine distribution systems listed on the report form. Of the total acres irrigated by all types of distribution systems, 27.5 million acres were irrigated by gravity flow systems and 16.9 million acres by sprinkler systems.

Comparisons with similar data from the 1979 Farm and Ranch Irrigation Survey show that sprinkler systems were used to irrigate 38 percent of the total land irrigated in 1984 compared with 37 percent in 1979. Gravity flow systems were used on 61 percent of the land in 1984 compared to 63 percent in 1979. Use of drip irrigation systems has expanded dramatically from 321,000 acres in 1979 to 838,000 acres in 1984, an increase of 161 percent.

In acres irrigated by sprinklers, center pivot systems were used to irrigate 9.4 million acres of the total 16.9 million acres irrigated by sprinklers. Next were mechanical move systems with 3.4 million acres, followed by hand move systems with 2.9 million acres, and solid set and permanent systems with 1.2 million acres.

Estimated Quantity of Water Applied

Irrigators estimated that a total of 82.7 million acre-feet of water was applied to the 44.7 million acres irrigated in 1984 in the conterminous United States for an average of 1.8 acre-feet per acre irrigated. The average acre-feet applied reported in the 1979 survey was 1.86 acre-feet, and in the 1974 and 1969 Censuses of Agriculture 2.09 acre-feet and 2.11 acre-feet, respectively. The average amount of water applied per acre in the principal irrigating States ranged from a high of 4.4 acre-feet in Arizona to a low of 0.9 acre-feet in South Dakota. The average for the remaining 28 Eastern States was 0.8 acre-feet.

Special tabulations of data for farms having only one of the four kinds of water distribution systems—sprinklers, gravity, drip, or subirrigation—show notable differences in the amount of water applied per acre by each system. For example, farms using only sprinkler systems applied 1.3 acre-feet per acre irrigated compared to 2.0 acre-feet for farms using only gravity flow systems (see table 5).

For the conterminous United States, results of the survey show that on rice, alfalfa hay, cotton, sugar beets, and land in orchards, farmers apply heavy amounts of water averaging over 2.0 acre-feet per acre irrigated while on sorghum, wheat, barley, dry beans, Irish potatoes, and vegetables, amounts between 1.0 and 2.0 acre-feet are applied. Soybeans and tobacco have less than 1.0 acre-feet of water applied per acre irrigated.

Source of Water

There was a total of 44.7 million acres irrigated by water from all sources in 1984. Approximately 1.1 million acres were irrigated with water from more than one of the three sources listed on the report form. About 24.3 million acres (53 percent) were irrigated from farm irrigation wells, 15.6 million acres (34 percent) from off-farm water suppliers, and 5.9 million acres (13 percent) from on-farm surface sources. Comparable data from the 1982 Census of Agriculture show 27.0 million acres (55 percent) were irrigated from farm irrigation wells, 16.0 million acres (33 percent) from off-farm water suppliers, and 6.0 million acres (12 percent) from on-farm surface sources.

Of the 82.7 million acre-feet of water estimated to be used for irrigation in 1984, 36.2 million acre-feet (44 percent) was pumped from wells, 36.2 million acre-feet (44 percent) was provided by off-farm water suppliers, and the other 10.2 million acre-feet (12 percent) came from on-farm surface sources. Comparable data from the 1979 survey show a total of 93.1 million acre-feet applied, of which 43.2 million acre-feet (47 percent) came from wells, 41.0 million acre-feet (44 percent) came from off-farm water suppliers, and 8.8 million acre-feet (10 percent) came from on-farm surface sources.

The average amount of water applied per acre varied significantly by source. Land irrigated from wells averaged 1.5 acre-feet applied per acre, while land irrigated from off-farm water suppliers averaged 2.3 acre-feet applied. Sprinkler irrigation is more related to the distribution of well water, while gravity flow systems are generally used to distribute water from off-farm water suppliers. However, for purposes of water economy and

efficiency of water use, the trend by irrigators has been toward greater use of sprinkler and drip systems over the past decade.

Irrigation Wells

There were irrigation wells capable of being used on 107,798 farms. Of these, 314,665 wells were pumped in 1984, 36,302 were idle, and 2,276 were artesian or free flowing. The 316,941 irrigation wells used supplied 36.2 million acre-feet of water to 24.3 million acres of land, for an average of 114.4 acre-feet per well and an average of 76.6 acres irrigated per well. Farms with wells used in 1984 average 3.1 wells per farm. Over 66 percent of the farms using wells in 1984 used one or two wells, but the majority of wells used (55 percent) are on the 17,051 farms using five or more wells per farm, indicating the impact of the large irrigators on the statistics. For the conterminous United States pumped wells averaged 235 feet in well depth, 145 feet in pumping depth, and 830 gallons per minute in pumping capacity.

Irrigation Expenditures

Pumping costs—There was a total of 426,814 irrigation pumps of all kinds used on 135,319 farms in 1984 and irrigated 31.1 million acres of land. These pumps were powered by fuels and electricity costing irrigators a total of $1,003 million or an average of $7,409 per farm or $32 per acre irrigated. The principal power source used was electricity for which $640 million was spent to power 281,317 pumps and irrigate 18.1 million acres at an average cost of $35 per acre. Next was natural gas which cost irrigators $195 million to power 51,799 pumps and irrigate 5.8 million acres at an average cost of $34 per acre, followed by diesel fuel which cost $125 million to power 59,723 pumps and irrigate 5.2 million acres at an average cost of $24 per acre. Table 11 presents more information on the other fuels used to power irrigation pumps.

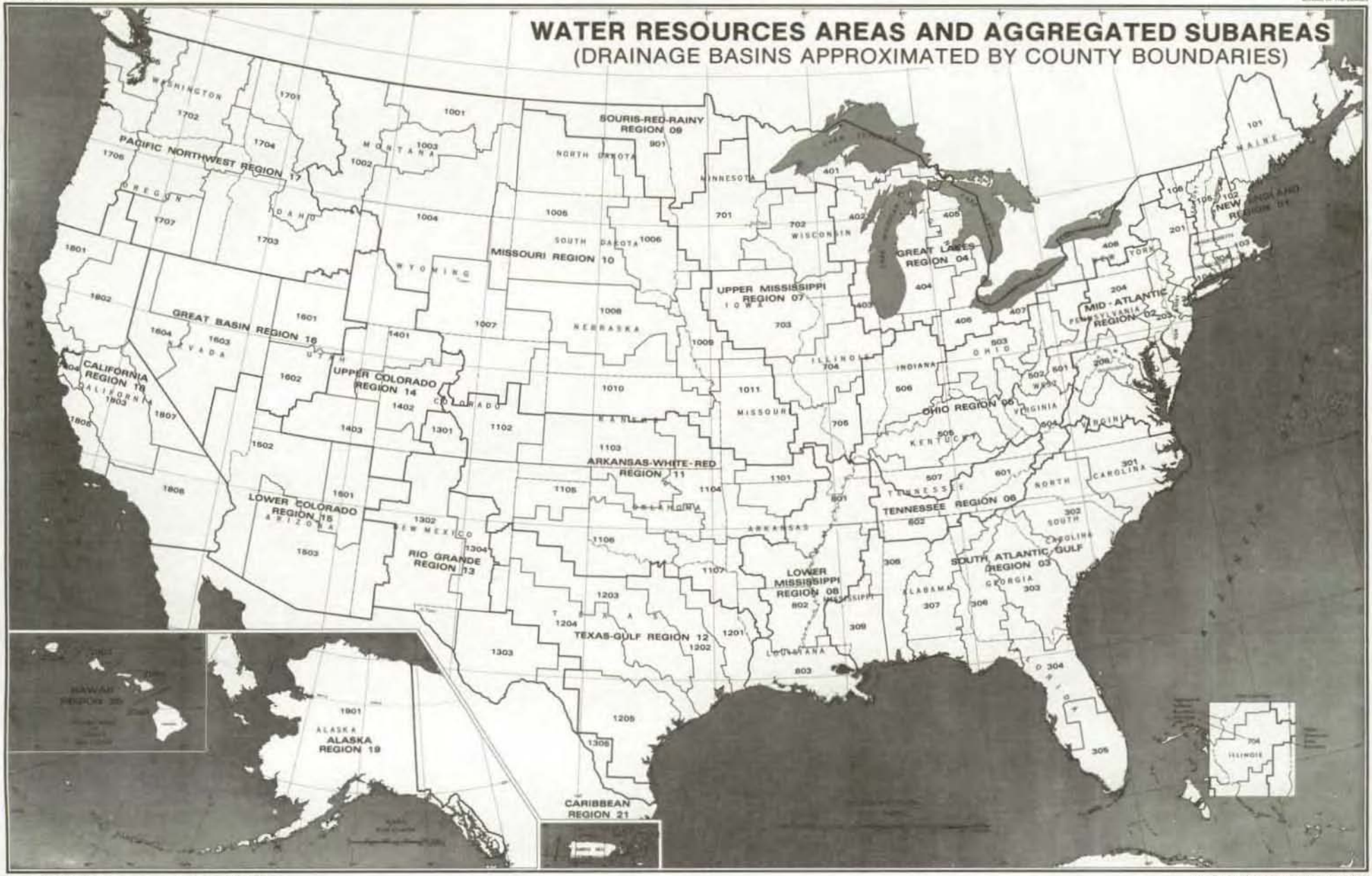
Cost of water from off-farm water suppliers—The 36.2 million acre-feet of water received from off-farm water suppliers to irrigate 15.6 million acres cost irrigators $406 million for an average cost of $11.21 per acre-foot of water or $26 per acre irrigated.

Maintenance and repair cost—Expenditure for maintenance and repairs totaled $375 million on 176,694 farms for an average of $2,124 per farm. The amount spent in 1984 has increased significantly (81 percent) from the $207 million spent in 1979.

Investment in irrigation equipment, facilities, and land improvement—Investment in irrigation equipment, facilities, and land improvement in 1984 totaled $585.1 million for an average of $8,197 per farm. The principal investment was in the purchase of irrigation equipment and machinery, which totaled $414.2 million and represents 71 percent of total investment. The next three categories were $63.1 million (11 percent) spent for land clearing and leveling, $57.5 million (10 percent) spent for construction of permanent storage and distribution systems, and $50.4 million (9 percent) spent for new well construction and well deepening.

Discontinuance of Irrigation in 1984

An estimated 15,677 farmers, who had irrigated a total of 1.3 million acres in 1982 according to the census of agriculture, did not irrigate in 1984. The majority of these operators reported that their discontinuance was not permanent (75 percent). Of the total 4,819 farms reporting discontinuance because of sufficient soil moisture, 2,819 farms (58 percent) were in the 28 Eastern States excluding Arkansas, Florida, and Louisiana. These figures reflect the likelihood of farms in the Eastern States to irrigate or not irrigate depending on amount of rainfall.



Adapted from Desgrotes' 1977 U. S. Water Resources Council map showing Water Resources Areas and Aggregated Subareas, Washington, D. C. The geographic areas and area subdivisions shown are drainage basins approximated by county boundaries and were established by the U. S. Water Resources Council for use in the Second (1975) National Assessment of Water and Related Land Resources. Base map from Geological Survey, U. S. Department of the Interior.

WATER RESOURCES AREAS AND AGGREGATED SUBAREAS
1978 CENSUS OF AGRICULTURE

Table 1. Irrigated Farms in the Censuses of Agriculture: 1959 Through 1982

Geographic area	1982		1978[1]		1974		1969		1964		1959	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States	**278 277**	**49 002 433**	**280 779**	**50 349 906**	**236 733**	**41 243 023**	**257 147**	**39 121 693**	**297 391**	**37 056 580**	**[2]307 783**	**[2]33 162 978**
Conterminous United States	**276 687**	**48 855 784**	**279 251**	**50 189 663**	**235 816**	**41 100 393**	**256 384**	**38 975 306**	**296 311**	**36 912 482**	**306 532**	**33 021 799**
17 Western States, Arkansas, Florida, and Louisiana	**237 544**	**45 585 596**	**239 532**	**47 537 258**	**209 045**	**39 857 379**	**223 560**	**37 862 815**	**252 233**	**35 980 494**	**277 332**	**32 348 305**
All other States	**39 143**	**3 270 188**	**39 719**	**2 652 405**	**26 771**	**1 243 014**	**32 824**	**1 112 491**	**44 078**	**931 988**	**29 200**	**673 494**
REGIONS												
Northeast	6 889	187 955	6 514	184 565	5 632	198 807	5 311	183 189	7 054	246 783	6 048	179 044
Midwest	45 263	10 934 206	47 249	10 228 309	36 599	6 802 092	35 414	5 093 230	31 454	3 612 586	30 225	3 177 817
South	62 780	11 770 679	68 994	12 977 493	55 450	10 760 692	69 426	10 916 453	79 932	9 865 964	63 011	7 783 403
West	163 345	26 109 593	158 022	26 959 539	139 052	23 481 432	146 996	22 928 821	178 951	23 311 247	208 499	22 022 714
DIVISIONS												
New England	1 947	34 642	1 854	36 638	1 612	37 172	1 473	37 034	2 122	48 417	1 618	30 651
Middle Atlantic	4 942	153 313	4 660	147 927	4 020	161 635	3 838	146 155	4 932	198 366	4 430	148 393
East North Central	8 414	870 940	7 952	690 571	5 465	333 997	5 930	289 196	4 489	159 997	3 934	111 376
West North Central	36 849	10 063 266	39 297	9 537 738	31 134	6 468 095	29 484	4 804 034	26 965	3 452 589	26 291	3 066 441
South Atlantic	23 107	2 449 283	25 181	2 670 014	17 066	1 804 959	19 636	1 599 698	34 112	1 483 628	18 924	596 844
East South Central	6 458	537 373	5 524	394 208	3 846	196 300	7 090	192 723	4 969	160 308	3 253	136 627
West South Central	33 215	8 784 023	38 289	9 913 271	34 538	8 759 433	42 700	9 124 032	40 851	8 242 028	40 834	7 049 932
Mountain	71 780	14 056 084	72 257	14 773 450	66 001	12 719 637	69 095	12 798 644	86 085	12 810 950	96 094	12 094 712
Pacific	91 565	12 053 509	85 765	12 186 089	73 051	10 761 795	77 901	10 130 177	92 866	10 500 297	112 405	9 928 002
New England												
Maine	200	5 831	255	7 013	176	6 211	115	5 526	206	4 157	138	2 214
New Hampshire	176	1 307	163	1 747	119	2 130	93	1 510	159	2 648	76	1 249
Vermont	120	1 254	94	1 397	46	509	37	286	81	1 554	72	1 612
Massachusetts	1 000	17 331	966	16 753	879	18 512	925	18 850	1 229	24 178	1 093	19 999
Rhode Island	84	2 224	78	2 801	73	2 336	60	1 925	66	1 428	34	406
Connecticut	367	6 695	298	6 927	319	7 474	243	8 937	381	14 452	205	5 171
Middle Atlantic												
New York	1 713	52 125	1 715	56 106	1 447	54 580	1 393	55 491	1 917	79 193	1 741	57 997
New Jersey	1 681	83 049	1 648	77 159	1 581	89 321	1 509	71 967	2 009	96 439	1 902	73 873
Pennsylvania	1 548	18 139	1 297	14 662	992	17 734	936	18 697	1 006	22 734	787	16 523
East North Central												
Ohio	1 152	27 688	1 103	24 970	981	22 115	1 024	22 087	750	17 405	575	11 972
Indiana	1 206	131 987	901	75 173	633	33 385	682	33 580	558	16 924	480	17 237
Illinois	1 182	166 012	1 146	129 943	650	53 777	822	50 906	327	14 375	332	10 127
Michigan	3 179	285 983	3 157	225 928	2 036	96 839	2 150	77 097	2 041	48 991	1 909	40 178
Wisconsin	1 695	259 270	1 645	234 557	1 165	127 881	1 252	105 526	813	62 302	638	31 862
West North Central												
Minnesota	2 172	315 376	2 031	271 704	853	77 823	575	36 365	470	17 510	387	14 991
Iowa	616	91 427	739	100 770	348	39 417	269	20 664	291	21 528	313	18 181
Missouri	2 037	402 914	2 136	320 387	1 310	150 446	1 386	155 862	822	59 426	590	29 957
North Dakota	762	162 643	792	141 434	510	70 891	480	63 238	442	50 548	471	47 656
South Dakota	1 815	376 447	1 776	334 755	1 072	152 203	1 063	148 341	1 005	130 050	1 002	115 629
Nebraska	22 190	6 039 292	23 862	5 682 931	20 331	3 966 930	19 440	2 857 247	18 833	2 169 317	18 936	2 077 926
Kansas	7 257	2 675 167	7 961	2 685 757	6 710	2 010 385	6 271	1 522 317	5 102	1 004 210	4 592	762 101
South Atlantic												
Delaware	323	44 168	255	33 725	154	19 879	164	20 421	158	17 542	156	15 533
Maryland	845	38 556	616	28 467	499	22 629	536	21 501	467	15 996	328	11 174
Virginia	1 839	42 824	2 416	42 030	1 965	28 257	2 078	36 618	4 452	50 968	1 996	31 101
West Virginia	135	945	116	1 236	113	1 513	130	3 166	79	2 420	66	1 115
North Carolina	4 026	81 078	6 082	89 861	4 002	51 340	5 170	59 153	12 583	96 874	8 537	65 743
South Carolina	946	81 326	770	32 031	446	10 335	675	15 003	1 337	18 524	1 398	24 952
Georgia	4 443	575 306	4 568	462 850	2 138	112 271	3 510	78 630	6 907	64 112	2 194	33 700
Florida	10 550	1 585 080	10 358	1 979 814	7 749	1 558 735	7 373	1 365 206	8 129	1 217 192	4 249	413 526
East South Central												
Kentucky	2 815	22 707	2 137	13 770	1 910	10 920	4 467	19 587	2 708	14 405	1 130	8 605
Tennessee	1 141	17 745	1 254	13 163	836	9 860	1 299	12 158	1 086	10 737	1 005	10 979
Alabama	1 040	66 020	994	58 581	427	13 909	337	11 058	318	11 768	328	17 357
Mississippi	1 462	430 901	1 139	308 694	673	161 611	987	149 920	857	123 398	790	99 686
West South Central												
Arkansas	6 678	2 022 695	6 302	1 683 413	4 673	948 910	5 728	1 010 200	6 220	974 297	5 652	711 812
Louisiana	3 693	693 698	3 799	681 056	3 777	701 587	4 611	701 692	4 844	580 687	4 817	484 850
Oklahoma	3 069	492 077	3 770	601 723	3 454	515 104	3 809	524 065	2 673	302 081	2 481	197 632
Texas	19 775	5 575 553	24 418	6 947 079	22 634	6 593 832	28 552	6 888 075	27 114	6 384 963	27 884	5 655 638
Mountain												
Montana	9 226	2 023 003	9 384	2 069 531	8 714	1 759 040	9 197	1 841 421	10 843	1 893 360	11 935	1 874 520
Idaho	17 355	3 450 443	18 215	3 475 392	16 825	2 859 047	17 840	2 760 852	22 251	2 801 500	25 383	2 576 580
Wyoming	5 284	1 564 576	4 995	1 661 558	4 738	1 459 900	5 034	1 523 422	5 923	1 571 192	6 412	1 469 911
Colorado	15 232	3 200 942	16 016	3 430 860	14 687	2 873 692	15 567	2 894 984	18 317	2 690 018	20 312	2 684 757
New Mexico	6 918	807 206	6 554	890 610	5 714	867 325	5 698	822 637	8 274	812 723	8 850	731 835
Arizona	4 437	1 097 825	4 185	1 195 727	3 828	1 153 478	3 709	1 177 618	4 697	1 125 376	5 391	1 152 450
Utah	11 174	1 082 328	10 822	1 168 621	9 701	969 645	10 282	1 025 014	13 762	1 092 270	15 701	1 061 683
Nevada	2 154	829 761	2 086	881 151	1 794	777 510	1 768	752 696	2 018	824 511	2 110	542 976
Pacific												
Washington	16 252	1 638 470	14 951	1 639 189	13 183	1 309 018	14 074	1 224 238	16 488	1 149 842	19 292	1 006 969
Oregon	15 334	1 807 882	13 659	1 880 833	11 791	1 561 438	12 014	1 519 421	15 869	1 607 659	17 724	1 384 284
California	58 389	8 460 508	55 627	8 505 824	47 160	7 748 709	51 050	7 240 131	59 429	7 598 698	74 138	7 395 570
Alaska	46	667	35	920	28	888	28	823	10	158	(NA)	(NA)
Hawaii	1 544	145 982	1 493	159 323	889	141 742	735	145 564	1 070	143 940	1 251	141 179

[1]Data exclude farms counted in the 1978 Census of Agriculture Area Sample. [2]Excludes data for Alaska.

Table 2. **Irrigated Farms by Acres Irrigated: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Total			1 to 9 acres			10 to 49 acres			50 to 99 acres		
	Farms	Acres in farms	Acres irrigated	Farms	Acres in farms	Acres irrigated	Farms	Acres in farms	Acres irrigated	Farms	Acres in farms	Acres irrigated
Conterminous United States	**212 354**	**175 133 529**	**44 730 913**	**36 778**	**1 581 593**	**174 339**	**55 563**	**8 823 868**	**1 340 537**	**27 749**	**10 368 639**	**1 967 944**
17 Western States, Arkansas, Florida, and Louisiana	**192 519**	**164 478 189**	**42 046 175**	**31 190**	**862 429**	**152 050**	**50 933**	**7 660 775**	**1 232 918**	**25 240**	**9 324 502**	**1 792 739**
Arizona	3 420	4 728 760	893 202	906	10 662	3 654	932	1 015 960	21 047	322	164 911	21 899
Arkansas	4 802	4 439 390	1 872 308	241	15 066	836	449	93 939	10 568	420	170 628	30 203
California	48 290	17 292 299	7 805 102	12 445	129 642	58 120	19 028	1 399 913	437 872	5 570	593 302	389 667
Colorado	13 443	15 379 881	3 104 875	1 111	38 498	5 644	3 235	618 671	87 877	2 161	1 204 241	150 749
Florida	5 862	4 990 501	1 437 976	1 297	36 422	5 257	2 258	368 109	50 637	747	223 911	50 471
Idaho	15 498	7 117 042	3 254 633	2 029	21 405	10 782	3 340	341 705	95 143	2 685	301 532	198 985
Kansas	6 175	8 934 767	2 314 580	63	19 278	378	629	238 106	17 361	969	861 678	73 531
Louisiana	2 382	1 838 294	578 806	187	3 069	1 273	297	48 504	5 396	276	109 553	20 687
Montana	7 900	16 769 062	1 877 131	718	171 812	4 238	1 933	641 909	40 782	773	454 892	54 987
Nebraska	19 216	19 320 703	5 827 841	–	–	–	473	197 780	17 028	2 750	902 923	208 095
Nevada	1 844	3 713 700	698 490	200	4 537	1 065	351	31 775	9 071	290	46 882	19 414
New Mexico	6 213	6 303 256	674 440	1 693	76 231	8 179	2 278	535 260	47 493	709	872 446	48 886
North Dakota	585	1 036 364	144 070	26	744	46	72	135 900	1 871	68	92 168	4 669
Oklahoma	2 045	1 920 289	439 619	215	27 212	836	436	224 149	12 844	401	226 701	28 907
Oregon	12 066	10 839 956	1 776 018	2 613	91 888	14 388	4 542	429 346	100 889	1 407	513 535	95 824
South Dakota	1 419	2 881 903	339 388	11	55 660	55	58	70 267	2 320	265	242 244	18 139
Texas	13 716	14 458 346	4 921 407	2 184	74 181	11 134	1 266	393 862	38 926	1 444	818 284	98 870
Utah	9 952	3 787 395	1 053 650	1 550	41 617	8 398	3 516	227 664	88 162	1 900	531 975	134 350
Washington	13 107	4 096 503	1 482 463	3 509	42 546	16 966	5 074	503 774	122 826	1 317	300 161	90 918
Wyoming	4 584	14 629 778	1 550 176	192	1 959	801	766	144 182	24 805	766	692 535	53 488
All other States	**19 835**	**10 655 340**	**2 684 738**	**5 588**	**719 164**	**22 289**	**4 630**	**1 163 093**	**107 619**	**2 509**	**1 044 137**	**175 205**
Water resources areas:												
WRA 01 New England	929	129 205	24 991	502	28 923	1 860	312	41 129	6 693	70	11 094	4 541
WRA 02 Mid-Atlantic	2 284	771 492	183 793	576	40 959	2 288	794	204 059	19 217	367	63 180	25 360
WRA 03 South Atlantic-Gulf	11 283	7 856 636	1 970 122	3 048	277 494	12 750	4 018	797 155	88 084	1 436	499 250	96 615
WRA 04 Great Lakes	3 157	1 422 885	447 259	613	52 609	2 639	799	164 936	20 197	458	160 671	32 131
WRA 05 Ohio	2 101	646 825	81 164	1 334	205 696	5 458	481	183 472	9 433	60	19 372	4 354
WRA 06 Tennessee	305	41 153	4 867	244	19 516	744	37	7 870	696	11	3 844	770
WRA 07 Upper Mississippi	3 016	1 859 150	584 140	481	127 523	1 459	286	59 016	8 645	356	152 654	28 037
WRA 08 Lower Mississippi	8 191	7 898 567	2 985 991	326	16 291	1 525	773	204 175	18 198	721	325 120	53 951
WRA 09 Souris-Red-Rainy	442	653 222	110 681	40	2 128	112	25	3 899	559	81	50 981	5 577
WRA 10 Missouri	38 042	59 224 976	10 921 193	1 013	251 078	5 313	3 307	1 272 079	86 975	5 892	3 260 177	430 162
WRA 11 Arkansas-White-Red	12 804	22 241 133	4 767 072	713	42 003	3 636	1 913	724 060	49 941	2 204	1 323 107	152 256
WRA 12 Texas-Gulf	8 867	8 317 374	2 860 311	1 138	63 273	4 846	652	313 600	19 324	789	574 666	58 041
WRA 13 Rio Grande	8 114	5 262 202	1 413 624	2 453	83 636	12 835	2 228	434 738	54 003	779	323 172	54 368
WRA 14 Upper Colorado	8 130	5 792 267	1 289 172	1 012	43 018	5 407	2 801	425 702	77 357	1 182	762 598	80 284
WRA 15 Lower Colorado	4 175	5 763 475	959 550	1 018	21 691	4 153	1 286	1 065 023	29 876	459	660 361	31 679
WRA 16 Great Basin	9 784	6 255 726	1 558 276	1 369	16 718	7 399	3 167	213 685	79 702	1 756	315 444	126 241
WRA 17 Pacific Northwest	41 604	22 845 001	6 520 511	8 301	142 675	43 187	13 456	1 299 745	328 538	5 417	1 259 706	384 577
WRA 18 California	49 126	18 152 240	8 048 196	12 597	146 362	58 728	19 228	1 409 525	443 099	5 711	603 242	399 000

Table 2. **Irrigated Farms by Acres Irrigated: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	100 to 199 acres			200 to 499 acres			500 to 999 acres			1,000 or more acres		
	Farms	Acres in farms	Acres irrigated	Farms	Acres in farms	Acres irrigated	Farms	Acres in farms	Acres irrigated	Farms	Acres in farms	Acres irrigated
Conterminous United States	**31 957**	**26 317 203**	**4 433 494**	**38 865**	**46 793 046**	**11 953 901**	**14 258**	**38 309 529**	**9 691 046**	**7 184**	**42 939 651**	**15 169 652**
17 Western States, Arkansas, Florida, and Louisiana	**28 917**	**24 474 878**	**4 019 216**	**35 967**	**43 690 657**	**11 079 022**	**13 409**	**36 843 584**	**9 145 067**	**6 863**	**41 621 364**	**14 625 163**
Arizona	319	478 836	43 311	432	1 251 844	141 886	291	953 853	193 542	218	852 694	467 863
Arkansas	660	430 415	92 575	1 707	1 514 422	532 139	958	1 386 821	661 354	367	828 099	544 633
California	4 027	1 393 220	556 168	4 002	2 417 593	1 201 188	1 733	4 421 114	1 190 620	1 485	6 937 515	3 971 467
Colorado	2 559	1 374 420	355 050	2 903	4 584 787	919 636	932	4 867 381	633 115	542	2 691 883	952 804
Florida	596	411 663	80 447	549	540 025	166 325	164	582 935	107 291	251	2 827 436	977 548
Idaho	2 945	908 988	427 181	3 074	2 606 973	917 476	875	899 257	604 515	550	2 037 182	1 000 551
Kansas	1 447	1 821 407	196 127	1 468	1 974 684	451 564	1 142	2 683 823	776 376	457	1 335 791	799 243
Louisiana	584	322 114	80 756	794	729 925	235 029	174	317 659	110 006	70	307 470	125 659
Montana	1 667	1 889 076	228 281	2 054	4 480 764	629 895	508	4 508 646	354 504	247	4 621 963	564 444
Nebraska	5 308	5 940 622	759 005	7 944	8 334 045	2 475 971	2 229	2 380 846	1 489 672	512	1 564 487	878 070
Nevada	309	309 452	43 274	373	381 378	113 572	187	982 031	127 246	134	1 957 645	384 848
New Mexico	651	1 736 703	85 587	546	1 280 080	179 087	254	1 021 953	168 853	82	780 583	136 355
North Dakota	140	238 724	19 603	216	395 635	65 746	55	144 843	37 174	8	28 350	14 961
Oklahoma	391	367 504	52 231	383	404 303	123 545	145	333 968	95 339	74	336 452	125 917
Oregon	1 432	1 801 370	198 319	1 297	1 991 505	386 024	540	2 517 116	370 462	235	3 495 196	610 112
South Dakota	402	499 765	55 669	601	1 685 818	177 403	58	184 695	36 003	24	143 454	49 799
Texas	1 844	1 173 821	236 648	3 841	4 392 792	1 231 699	2 116	3 646 158	1 478 110	1 021	3 959 248	1 826 020
Utah	1 429	1 267 903	208 512	1 314	781 179	389 870	160	341 630	100 255	83	595 427	124 103
Washington	1 409	1 086 402	195 741	1 232	874 586	369 812	361	502 436	248 967	205	786 598	437 233
Wyoming	798	1 022 473	104 731	1 237	3 068 319	371 155	527	4 166 419	361 663	298	5 533 891	633 533
All other States	**3 040**	**1 842 325**	**414 278**	**2 898**	**3 102 389**	**874 879**	**849**	**1 465 945**	**545 979**	**321**	**1 318 287**	**544 489**
Water resources areas:												
WRA 01 New England	25	13 731	3 451	14	15 333	3 822	4	(D)	(D)	2	(D)	(D)
WRA 02 Mid-Atlantic	266	115 095	32 457	220	202 796	57 361	52	110 615	33 669	9	34 788	13 441
WRA 03 South Atlantic-Gulf	938	613 029	131 070	1 247	1 607 719	375 413	281	783 441	178 672	315	3 278 548	1 087 518
WRA 04 Great Lakes	554	302 193	76 396	567	468 280	165 767	134	159 041	88 049	32	115 155	62 080
WRA 05 Ohio	108	67 559	15 196	98	121 676	29 214	16	(D)	(D)	4	(D)	(D)
WRA 06 Tennessee	6	3 702	840	7	6 221	1 817	–	–	–	–	–	–
WRA 07 Upper Mississippi	1 041	649 509	138 015	630	462 776	192 650	172	257 764	120 640	50	149 908	94 694
WRA 08 Lower Mississippi	1 544	945 261	213 065	2 893	2 749 955	888 794	1 352	2 035 795	910 978	582	1 621 970	899 480
WRA 09 Souris-Red-Rainy	132	169 759	18 450	99	107 096	28 679	49	283 667	34 754	16	35 692	22 550
WRA 10 Missouri	9 510	10 456 601	1 345 717	13 048	19 457 897	4 011 654	4 005	12 503 886	2 666 923	1 267	12 023 258	2 374 449
WRA 11 Arkansas-White-Red	2 139	2 931 627	289 404	2 985	5 950 389	980 594	1 694	6 829 605	1 216 368	1 156	4 440 342	2 074 873
WRA 12 Texas-Gulf	1 323	746 761	158 776	3 127	2 664 581	1 003 515	1 425	2 261 700	954 685	413	1 692 793	661 124
WRA 13 Rio Grande	1 042	1 240 302	141 229	754	825 701	254 964	644	1 210 467	437 012	214	1 144 186	459 213
WRA 14 Upper Colorado	1 258	1 079 408	177 165	1 450	1 709 463	422 331	216	595 859	152 352	211	1 176 219	374 276
WRA 15 Lower Colorado	378	692 026	50 423	513	1 339 714	170 826	300	1 115 859	199 612	221	868 801	472 981
WRA 16 Great Basin	1 578	959 399	226 135	1 396	1 067 727	435 701	338	1 310 517	219 470	180	2 372 236	463 628
WRA 17 Pacific Northwest	6 030	3 910 229	851 432	5 644	5 505 449	1 673 317	1 787	4 292 804	1 238 919	969	6 434 393	2 000 541
WRA 18 California	4 085	1 421 012	564 273	4 173	2 530 273	1 257 482	1 789	4 524 266	1 226 844	1 543	7 517 560	4 098 770

Table 3. **Land Use: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Land in farms			Total cropland			Cropland harvested			Cropland used only for pasture		
	Farms	Acres in farms	Acres irrigated	Farms	Acres	Acres irrigated	Farms	Acres	Acres irrigated	Farms	Acres	Acres irrigated
Conterminous United States	**212 354**	**175 133 529**	**44 730 913**	**208 589**	**76 526 495**	**43 235 351**	**194 498**	**59 742 019**	**40 520 144**	**75 875**	**7 708 332**	**2 334 281**
17 Western States, Arkansas, Florida, and Louisiana	**192 519**	**164 478 189**	**42 046 175**	**188 758**	**68 526 363**	**40 551 405**	**174 667**	**52 524 376**	**37 848 955**	**71 030**	**7 373 208**	**2 331 538**
Arizona	3 420	4 728 760	893 202	3 351	1 063 701	889 324	2 771	805 533	802 703	1 166	82 389	51 777
Arkansas	4 802	4 439 390	1 872 308	4 802	3 872 954	1 872 308	4 802	3 420 450	1 854 948	644	48 686	2 098
California	48 290	17 292 299	7 805 102	46 474	8 578 774	7 517 059	42 379	7 433 278	7 176 112	9 898	618 052	302 599
Colorado	13 443	15 379 881	3 104 875	13 225	4 964 287	2 990 812	12 489	3 584 870	2 731 759	6 625	717 105	251 409
Florida	5 862	4 990 501	1 437 976	5 815	1 986 845	1 314 058	5 660	1 470 593	1 228 971	1 416	344 540	53 530
Idaho	15 498	7 117 042	3 254 633	15 197	4 049 716	3 110 417	13 169	3 170 581	2 737 314	8 867	574 387	329 973
Kansas	6 175	8 934 767	2 314 580	6 175	6 572 044	2 296 802	6 131	4 605 797	2 255 908	1 918	355 500	16 241
Louisiana	2 382	1 838 294	578 806	2 382	1 615 205	578 806	2 382	1 419 061	578 390	505	53 525	-
Montana	7 900	16 769 062	1 877 131	7 790	3 313 329	1 687 324	7 448	2 276 032	1 414 468	4 488	563 330	257 168
Nebraska	19 216	19 320 703	5 827 841	19 216	10 737 785	5 775 656	19 216	8 613 040	5 703 302	5 075	897 606	48 907
Nevada	1 844	3 713 700	698 490	1 755	684 836	602 141	1 628	521 151	518 881	785	136 822	77 358
New Mexico	6 213	6 303 256	674 440	6 167	942 524	666 824	5 320	689 436	597 718	2 458	134 008	55 065
North Dakota	585	1 036 364	144 070	585	563 895	143 920	585	427 684	142 195	215	48 992	435
Oklahoma	2 045	1 920 289	439 619	2 045	1 277 227	436 774	1 974	894 212	414 212	1 017	170 913	13 227
Oregon	12 066	10 839 956	1 776 018	11 941	2 507 962	1 609 126	9 418	1 680 872	1 284 354	7 425	583 235	299 080
South Dakota	1 419	2 881 903	339 388	1 419	1 049 337	339 128	1 419	856 504	330 033	510	91 043	2 930
Texas	13 716	14 458 346	4 921 407	13 341	9 549 080	4 876 594	12 781	6 722 239	4 673 911	5 434	1 144 288	149 078
Utah	9 952	3 787 395	1 053 650	9 766	1 307 946	1 001 889	9 403	896 121	852 510	5 340	330 345	145 610
Washington	13 107	4 096 503	1 482 463	12 772	2 160 776	1 458 957	11 677	1 773 987	1 363 796	4 685	144 467	86 363
Wyoming	4 584	14 629 778	1 550 176	4 540	1 728 140	1 383 486	4 015	1 262 935	1 187 470	2 559	333 975	188 690
All other States	**19 835**	**10 655 340**	**2 684 738**	**19 831**	**8 000 132**	**2 683 946**	**19 831**	**7 217 643**	**2 671 189**	**4 845**	**335 124**	**2 743**
Water resources areas:												
WRA 01 New England	929	129 205	24 991	929	43 576	24 991	929	38 013	24 931	93	1 225	20
WRA 02 Mid-Atlantic	2 284	771 492	183 793	2 284	581 883	183 793	2 284	549 499	183 587	314	12 502	170
WRA 03 South Atlantic-Gulf	11 283	7 856 636	1 970 122	11 236	3 617 920	1 846 104	11 081	2 916 973	1 761 017	2 958	463 988	53 530
WRA 04 Great Lakes	3 157	1 422 885	447 259	3 157	1 155 790	447 239	3 157	1 068 461	441 026	574	16 705	740
WRA 05 Ohio	2 101	646 825	81 164	2 097	465 188	80 516	2 097	333 565	80 148	949	105 456	232
WRA 06 Tennessee	305	41 153	4 867	305	21 957	4 843	305	14 687	4 600	147	6 313	243
WRA 07 Upper Mississippi	3 016	1 859 150	584 140	3 016	1 503 007	584 140	3 016	1 386 576	581 065	682	26 075	1 108
WRA 08 Lower Mississippi	8 191	7 898 567	2 985 991	8 191	6 981 847	2 985 991	8 191	6 220 963	2 967 054	1 059	99 149	1 100
WRA 09 Souris-Red-Rainy	442	653 222	110 681	442	480 014	110 531	442	423 928	109 543	149	17 513	-
WRA 10 Missouri	38 042	59 224 976	10 921 193	37 838	20 747 482	10 548 272	37 039	16 036 874	10 101 737	13 530	2 040 694	385 903
WRA 11 Arkansas-White-Red	12 804	22 241 133	4 767 072	12 803	11 644 599	4 726 037	12 584	7 974 050	4 599 707	5 253	1 241 088	83 770
WRA 12 Texas-Gulf	8 867	8 317 374	2 860 311	8 642	5 208 493	2 841 830	8 109	3 932 933	2 754 862	3 327	341 596	67 517
WRA 13 Rio Grande	8 114	5 262 202	1 413 624	7 877	1 785 610	1 362 029	7 160	1 388 958	1 193 941	2 922	284 895	140 685
WRA 14 Upper Colorado	8 130	5 792 267	1 289 172	7 867	1 729 364	1 167 790	7 230	1 036 427	872 107	5 428	526 541	291 513
WRA 15 Lower Colorado	4 175	5 763 475	959 550	4 080	1 169 075	954 556	3 351	869 455	857 175	1 560	100 986	61 327
WRA 16 Great Basin	9 784	6 255 726	1 558 276	9 672	1 883 446	1 443 631	9 284	1 384 969	1 297 642	4 985	380 073	136 978
WRA 17 Pacific Northwest	41 604	22 845 001	6 520 511	40 859	8 699 534	6 204 009	35 224	6 617 202	5 403 367	21 492	1 325 747	719 707
WRA 18 California	49 126	18 152 240	8 048 196	47 294	8 807 710	7 719 049	43 015	7 548 486	7 286 635	10 453	717 786	389 738

Table 3. **Land Use: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Other cropland			Total woodland		Other pastureland and rangeland			Other land	
	Farms	Acres	Acres irrigated	Farms	Acres	Farms	Acres	Acres irrigated	Farms	Acres
Conterminous United States	**54 083**	**9 076 144**	**380 926**	**32 551**	**7 059 836**	**54 983**	**85 765 757**	**1 495 562**	**117 267**	**5 781 441**
17 Western States, Arkansas, Florida, and Louisiana	**47 101**	**8 628 779**	**370 912**	**21 907**	**5 447 619**	**51 788**	**85 370 583**	**1 494 770**	**103 856**	**5 133 624**
Arizona	681	175 779	34 844	186	27 776	668	3 212 815	3 878	1 598	424 468
Arkansas	2 919	403 818	15 262	1 742	373 808	409	35 361	-	2 520	157 267
California	5 047	527 444	38 348	2 599	568 044	5 359	7 450 375	288 043	22 061	695 106
Colorado	2 858	662 312	7 644	1 584	457 082	5 750	9 451 160	114 063	8 134	507 352
Florida	607	171 712	31 557	1 390	566 157	729	2 165 748	123 918	2 593	271 751
Idaho	2 632	304 748	43 130	964	148 730	3 430	2 646 866	144 216	9 315	271 730
Kansas	4 193	1 610 747	24 653	510	31 085	2 924	2 051 482	17 778	3 831	280 156
Louisiana	1 193	142 619	416	364	83 149	196	76 457	-	1 040	63 483
Montana	1 838	473 967	15 688	1 587	507 397	3 999	12 754 391	189 807	4 836	193 945
Nebraska	10 655	1 227 139	23 447	2 968	162 018	9 581	7 961 104	52 185	13 334	459 796
Nevada	199	26 863	5 902	85	18 174	777	2 890 001	96 349	1 176	120 689
New Mexico	1 207	119 080	14 041	463	167 347	1 865	4 944 650	7 616	3 469	248 735
North Dakota	372	87 219	1 290	169	14 914	337	411 545	150	452	46 010
Oklahoma	855	212 102	9 335	397	45 279	973	537 989	2 845	1 219	59 794
Oregon	1 624	243 855	25 692	2 966	763 657	3 185	7 370 538	166 892	6 498	197 799
South Dakota	618	101 790	6 165	339	43 491	890	1 738 773	260	1 037	50 302
Texas	6 344	1 682 553	53 605	1 245	674 001	4 092	3 720 931	44 813	6 678	514 334
Utah	1 089	81 480	3 769	620	298 849	2 389	2 035 309	51 761	4 905	145 291
Washington	1 685	242 322	8 798	1 345	206 679	1 886	1 529 080	23 506	6 676	199 968
Wyoming	485	131 230	7 326	384	289 982	2 349	12 386 008	166 690	2 484	225 648
All other States	**6 982**	**447 365**	**10 014**	**10 644**	**1 612 217**	**3 195**	**395 174**	**792**	**13 411**	**647 817**
Water resources areas:										
WRA 01 New England	123	4 338	40	598	56 176	50	2 665	-	637	26 788
WRA 02 Mid-Atlantic	480	19 882	36	1 069	113 743	196	16 734	-	1 431	59 132
WRA 03 South Atlantic-Gulf	2 297	236 959	31 557	4 987	1 520 329	1 691	2 307 261	124 018	6 032	411 126
WRA 04 Great Lakes	1 431	70 624	5 473	1 945	164 022	400	10 937	20	2 325	92 136
WRA 05 Ohio	602	26 167	136	1 113	68 408	648	79 424	648	1 465	33 805
WRA 06 Tennessee	52	957	-	167	10 315	68	6 511	24	202	2 370
WRA 07 Upper Mississippi	1 312	90 356	1 967	1 358	124 922	428	31 926	-	2 367	199 295
WRA 08 Lower Mississippi	4 716	661 735	17 837	2 284	521 368	611	133 941	-	4 035	261 411
WRA 09 Souris-Red-Rainy	221	38 573	988	202	17 852	145	115 813	150	327	39 543
WRA 10 Missouri	16 462	2 669 914	60 632	5 172	772 636	19 679	36 492 478	372 921	25 159	1 212 380
WRA 11 Arkansas-White-Red	6 513	2 429 461	42 560	1 229	157 996	5 258	10 061 811	41 035	7 144	376 727
WRA 12 Texas-Gulf	4 488	933 964	19 451	923	634 829	2 771	2 039 202	18 481	4 730	434 850
WRA 13 Rio Grande	1 317	111 757	27 403	647	238 947	1 986	2 980 151	51 595	3 884	257 494
WRA 14 Upper Colorado	925	166 396	4 170	1 468	537 187	3 222	3 200 214	121 382	5 156	325 502
WRA 15 Lower Colorado	885	198 634	36 054	295	34 628	939	4 115 369	4 994	1 960	444 403
WRA 16 Great Basin	1 091	118 404	9 011	393	102 559	2 263	4 045 773	114 645	4 981	223 948
WRA 17 Pacific Northwest	5 973	756 585	80 935	5 846	1 302 288	9 038	12 172 664	316 502	22 829	670 515
WRA 18 California	5 195	541 438	42 676	2 855	681 631	5 590	7 952 883	329 147	22 603	710 016

Table 4. **Land Irrigated by Method of Water Distribution: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Acres irrigated by all methods[1]	Sprinkler systems									
				Center pivot		Mechanical move		Hand move		Solid set and permanent	
		Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
Conterminous United States	**45 795 293**	**104 641**	**16 877 412**	**32 442**	**9 370 614**	**25 475**	**3 355 164**	**46 885**	**2 918 241**	**19 694**	**1 233 393**
17 Western States, Arkansas, Florida, and Louisiana	**43 068 808**	**87 108**	**14 724 371**	**26 045**	**7 953 236**	**20 102**	**2 861 168**	**40 639**	**2 757 626**	**17 675**	**1 152 341**
Arizona	901 064	529	74 140	134	28 387	120	25 058	236	14 970	134	5 725
Arkansas	1 899 089	725	159 546	214	79 735	128	16 940	198	7 728	214	55 143
California	8 213 143	19 858	1 901 576	1 982	81 784	1 594	256 359	9 961	953 678	8 935	609 755
Colorado	3 209 754	3 584	1 110 300	1 979	925 950	831	115 895	895	47 840	221	20 615
Florida	1 480 016	3 870	394 527	548	58 277	702	103 450	553	26 672	2 365	206 128
Idaho	3 307 868	7 043	1 738 862	952	368 599	3 286	692 228	5 173	641 954	649	36 081
Kansas	2 342 076	3 462	950 247	2 630	893 752	659	39 038	419	15 697	44	1 760
Louisiana	592 091	416	86 571	342	69 299	39	11 760	37	259	13	5 253
Montana	1 927 722	3 964	565 096	427	143 227	1 740	249 245	2 736	157 677	177	14 947
Nebraska	5 881 570	10 724	2 987 744	9 419	2 778 200	1 780	160 084	1 017	49 215	3	245
Nevada	702 954	459	122 975	130	38 625	289	56 936	157	16 793	41	10 621
New Mexico	684 541	1 550	221 686	565	163 687	375	39 627	634	15 062	81	3 310
North Dakota	144 150	437	100 259	311	92 759	75	6 404	56	1 096	–	–
Oklahoma	452 552	1 488	239 479	587	157 681	733	69 515	344	10 036	43	2 247
Oregon	1 803 685	8 359	855 675	632	213 138	1 892	284 487	7 099	315 857	624	42 193
South Dakota	339 629	892	225 664	752	206 495	179	16 864	42	1 355	1	(D)
Texas	5 056 479	4 738	1 366 968	2 695	1 011 314	1 710	256 919	1 136	95 154	3	(D)
Utah	1 058 158	3 163	295 749	141	44 087	1 361	150 776	2 300	99 002	133	1 884
Washington	1 504 180	10 687	1 139 686	1 279	524 392	2 139	255 149	7 035	246 310	3 914	113 835
Wyoming	1 568 087	1 160	187 621	326	73 848	470	54 434	611	41 271	80	18 068
All other States	**2 726 485**	**17 533**	**2 153 041**	**6 397**	**1 417 378**	**5 373**	**493 996**	**6 246**	**160 615**	**2 019**	**81 052**
Water resources areas:											
WRA 01 New England	27 489	886	24 127	196	5 039	36	2 548	373	6 670	335	9 870
WRA 02 Mid-Atlantic	193 577	2 209	183 188	403	70 650	525	56 114	1 399	49 996	179	6 428
WRA 03 South Atlantic-Gulf	2 015 095	8 887	904 024	1 938	380 757	2 723	241 098	2 352	56 675	2 788	225 494
WRA 04 Great Lakes	451 216	2 883	435 517	970	217 712	1 291	167 404	926	36 130	477	14 271
WRA 05 Ohio	82 078	2 036	80 547	554	47 893	279	17 468	1 182	13 319	151	1 867
WRA 06 Tennessee	5 224	278	5 002	53	1 404	40	1 299	176	1 264	26	1 035
WRA 07 Upper Mississippi	597 345	2 980	593 946	1 897	474 203	909	83 062	324	19 538	399	17 143
WRA 08 Lower Mississippi	3 033 859	1 439	426 219	985	319 232	163	33 426	100	4 885	239	68 676
WRA 09 Souris-Red-Rainy	110 681	407	97 393	277	87 362	67	5 983	63	1 256	17	2 792
WRA 10 Missouri	11 093 292	18 383	4 798 455	13 475	4 141 409	4 613	483 278	3 047	147 596	211	26 172
WRA 11 Arkansas-White-Red	4 845 421	5 521	1 593 366	3 629	1 414 697	1 302	128 468	923	31 616	150	18 585
WRA 12 Texas-Gulf	2 934 234	4 039	989 435	1 980	669 732	1 653	257 020	1 131	60 043	2	2 640
WRA 13 Rio Grande	1 459 946	1 385	299 473	672	223 290	151	19 938	496	53 448	74	2 797
WRA 14 Upper Colorado	1 323 204	1 740	179 689	118	29 120	856	88 968	1 073	57 859	116	3 742
WRA 15 Lower Colorado	968 337	769	87 298	233	32 579	225	30 269	303	18 700	159	5 750
WRA 16 Great Basin	1 575 735	3 371	409 453	212	63 342	1 421	204 474	2 448	129 157	149	12 480
WRA 17 Pacific Northwest	6 617 236	26 863	3 767 879	2 809	1 098 742	7 290	1 212 654	20 071	1 263 973	5 139	192 510
WRA 18 California	8 461 324	20 565	2 002 401	2 041	93 451	1 931	321 693	10 498	966 116	9 083	621 141

See footnotes at end of table.

Table 4. **Land Irrigated by Method of Water Distribution: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Gravity flow systems								Drip or trickle systems		Subirrigation	
			Gated pipe		Ditches with siphon tubes		Flooding					
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
Conterminous United States	**126 827**	**27 457 244**	**42 826**	**8 363 825**	**59 255**	**10 051 246**	**45 045**	**9 042 173**	**11 651**	**837 624**	**2 905**	**623 013**
17 Western States, Arkansas, Florida, and Louisiana	**124 800**	**26 935 360**	**41 702**	**8 123 033**	**58 893**	**9 994 412**	**44 327**	**8 817 915**	**10 597**	**797 149**	**2 835**	**611 928**
Arizona	2 937	776 363	297	42 146	1 896	611 993	951	122 224	201	50 561	-	-
Arkansas	4 154	1 726 932	828	228 301	725	181 838	3 458	1 316 793	235	2 311	66	10 300
California	27 759	5 773 788	5 492	902 710	8 080	2 180 165	17 244	2 690 913	6 812	449 604	847	88 175
Colorado	11 740	2 082 242	3 349	417 063	8 730	1 245 417	2 225	419 762	96	3 567	134	13 645
Florida	1 228	619 723	137	25 028	425	160 982	698	433 713	1 670	220 304	99	245 462
Idaho	11 658	1 533 421	3 296	141 272	8 045	919 825	3 594	472 324	28	4 480	215	31 105
Kansas	4 297	1 391 282	4 046	1 208 057	688	119 899	203	63 326	88	547	-	-
Louisiana	2 017	503 739	341	82 941	453	103 775	1 401	317 023	25	461	22	1 320
Montana	5 385	1 298 264	658	82 505	3 144	635 675	2 134	580 084	-	-	315	64 362
Nebraska	13 766	2 814 136	12 143	2 242 283	3 996	485 893	391	85 960	-	-	393	79 690
Nevada	1 560	567 228	117	20 197	781	190 168	796	356 863	13	26	49	12 725
New Mexico	4 944	455 252	709	72 847	3 347	273 717	1 130	108 688	157	3 006	130	4 597
North Dakota	180	43 871	45	5 589	118	31 099	59	7 183	2	(D)	-	-
Oklahoma	688	212 175	498	151 938	162	43 350	62	16 887	79	(D)	-	-
Oregon	5 675	906 828	821	30 806	3 201	337 864	2 309	538 158	24	12 169	198	29 013
South Dakota	623	113 445	292	29 572	390	54 385	228	29 488	13	520	-	-
Texas	10 302	3 669 263	5 884	2 215 680	4 495	1 041 623	2 306	411 960	593	20 248	-	-
Utah	8 016	739 253	582	36 481	5 303	416 348	2 624	286 424	171	13 927	134	9 229
Washington	3 827	348 598	908	43 361	2 211	230 562	1 169	74 675	390	14 500	76	1 396
Wyoming	4 044	1 359 557	1 259	144 256	2 703	729 834	1 345	485 467	-	-	157	20 909
All other States	**2 027**	**521 884**	**1 124**	**240 792**	**362**	**56 834**	**718**	**224 258**	**1 054**	**40 475**	**70**	**11 085**
Water resources areas:												
WRA 01 New England	87	2 683	6	174	41	1 455	44	1 054	75	679	-	-
WRA 02 Mid-Atlantic	38	6 228	29	3 510	-	-	9	2 718	156	2 646	10	1 515
WRA 03 South Atlantic-Gulf	1 447	620 636	137	25 028	553	161 804	789	433 804	1 989	243 723	100	246 712
WRA 04 Great Lakes	38	2 003	17	800	12	420	9	783	338	11 366	37	2 330
WRA 05 Ohio	49	1 227	8	300	27	497	14	430	28	146	2	(D)
WRA 06 Tennessee	11	45	3	3	3	30	5	12	29	174	3	3
WRA 07 Upper Mississippi	35	2 450	35	2 450	-	-	-	-	36	720	1	(D)
WRA 08 Lower Mississippi	7 145	2 586 918	2 027	528 037	1 258	310 265	5 020	1 748 616	196	3 502	104	17 220
WRA 09 Souris-Red-Rainy	35	13 270	8	4 760	6	1 530	21	6 980	9	18	-	-
WRA 10 Missouri	27 946	6 145 150	17 046	2 809 759	13 073	2 267 527	4 194	1 067 864	115	829	794	148 858
WRA 11 Arkansas-White-Red	8 894	3 248 640	5 878	2 359 892	2 899	608 131	1 512	280 617	327	3 163	7	252
WRA 12 Texas-Gulf	6 001	1 931 001	3 845	1 099 831	2 750	562 926	1 049	268 244	287	13 798	-	-
WRA 13 Rio Grande	7 092	1 141 772	820	184 573	4 701	668 253	2 011	288 946	331	8 026	82	10 675
WRA 14 Upper Colorado	7 139	1 117 100	1 585	142 346	4 855	572 474	1 736	402 280	140	5 374	226	21 041
WRA 15 Lower Colorado	3 548	829 318	325	45 276	2 306	650 859	1 166	133 183	201	50 561	22	1 160
WRA 16 Great Basin	7 754	1 132 555	651	46 269	4 655	484 269	3 001	602 017	140	12 146	168	21 581
WRA 17 Pacific Northwest	21 415	2 763 515	4 860	206 397	13 907	1 554 475	6 984	1 002 643	441	28 338	484	57 504
WRA 18 California	28 153	5 912 733	5 546	904 420	8 209	2 206 331	17 481	2 801 982	6 813	452 415	865	93 775

[1]May include some duplicate reporting of same land by two or more methods.

Table 5. **Estimated Quantity of Water Applied Using Only One Method of Distribution: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Water applied by all methods			Only sprinkler systems								
				Total			Only center pivot			Only mechanical move		
	Acres irrigated[1]	Acre-feet applied	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre
Conterminous United States	**45 795 293**	**82 740 224**	**1.8**	**74 424**	**10 695 067**	**1.3**	**15 910**	**4 606 075**	**1.2**	**8 933**	**1 085 824**	**1.2**
17 Western States, Arkansas, Florida, and Louisiana	**43 068 808**	**80 654 370**	**1.9**	**57 712**	**8 682 281**	**1.5**	**11 405**	**3 690 429**	**1.3**	**5 500**	**799 286**	**1.4**
Arizona	901 064	3 911 555	4.4	342	35 622	4.3	39	15 080	4.5	26	5 866	4.6
Arkansas	1 899 089	2 646 063	1.4	418	71 576	.9	103	49 278	.8	29	1 740	2.3
California	8 213 143	23 920 671	3.1	14 547	856 058	2.5	1 104	9 310	2.2	393	49 776	2.8
Colorado	3 209 754	5 131 216	1.7	1 575	540 016	1.5	784	431 169	1.5	185	14 775	.8
Florida	1 480 016	2 759 946	1.9	3 105	246 983	1.0	360	44 063	1.0	478	45 817	.6
Idaho	3 307 868	5 685 447	1.7	3 656	1 120 626	1.5	70	45 557	1.2	883	216 965	1.2
Kansas	2 342 076	3 139 371	1.4	1 827	556 966	1.3	1 312	458 630	1.3	267	17 074	1.3
Louisiana	592 091	973 971	1.7	341	52 873	.9	276	28 161	1.1	-	-	-
Montana	1 927 722	3 433 785	1.8	2 392	270 037	1.5	86	27 468	1.6	356	31 999	.9
Nebraska	5 881 570	6 286 468	1.1	5 450	1 745 735	1.0	4 262	1 449 746	1.1	108	11 880	.5
Nevada	702 954	1 824 600	2.6	254	77 690	2.5	39	13 689	2.6	85	19 136	2.9
New Mexico	684 541	1 506 046	2.2	1 043	141 149	1.8	269	104 198	1.9	191	12 422	1.8
North Dakota	144 150	151 264	1.0	403	96 301	.9	299	91 001	.9	53	4 244	.6
Oklahoma	452 552	605 553	1.4	1 283	168 783	1.2	304	70 216	1.1	516	43 382	1.3
Oregon	1 803 685	3 560 509	2.0	6 248	590 215	1.5	212	70 710	2.2	283	66 716	1.3
South Dakota	339 629	312 330	.9	796	206 078	.8	586	170 806	.8	99	10 711	.6
Texas	5 056 479	6 768 673	1.4	2 885	797 321	1.1	897	422 539	1.3	710	129 661	.8
Utah	1 058 158	2 259 050	2.1	1 746	181 392	2.3	19	10 100	2.7	360	51 077	2.9
Washington	1 504 180	3 214 731	2.2	8 899	853 242	2.0	281	161 203	2.2	410	59 779	1.8
Wyoming	1 568 087	2 563 125	1.7	502	73 618	1.1	103	17 505	1.0	68	6 266	1.3
All other States	**2 726 485**	**2 085 854**	**.8**	**16 712**	**2 012 786**	**.7**	**4 505**	**915 646**	**.7**	**3 433**	**286 538**	**.4**
Water resources areas:												
WRA 01 New England	27 489	30 064	1.2	769	21 092	1.1	161	3 297	1.1	29	1 863	.4
WRA 02 Mid-Atlantic	193 577	113 412	.6	2 089	177 170	.5	325	55 663	.6	285	33 076	.3
WRA 03 South Atlantic-Gulf	2 015 095	3 096 837	1.6	7 987	741 231	.7	1 344	253 528	.7	1 996	147 419	.5
WRA 04 Great Lakes	451 216	290 273	.6	2 744	423 610	.7	431	86 069	.9	687	85 878	.5
WRA 05 Ohio	82 078	43 324	.5	2 022	79 439	.5	471	37 907	.6	208	11 213	.4
WRA 06 Tennessee	5 224	2 499	.5	262	4 938	.5	42	834	.5	36	1 041	.5
WRA 07 Upper Mississippi	597 345	445 078	.8	2 944	585 318	.8	1 379	338 316	.8	509	37 720	.5
WRA 08 Lower Mississippi	3 033 859	4 087 303	1.4	857	214 188	.8	640	169 015	.8	2	3 400	.7
WRA 09 Souris-Red-Rainy	110 681	106 071	1.0	398	97 312	.8	260	84 852	.8	50	5 033	.5
WRA 10 Missouri	11 093 292	14 254 064	1.3	9 908	2 802 560	1.1	6 358	2 177 875	1.1	976	78 866	.9
WRA 11 Arkansas-White-Red	4 845 421	6 695 428	1.4	3 601	909 862	1.3	1 737	682 848	1.3	864	64 572	1.2
WRA 12 Texas-Gulf	2 934 234	3 912 842	1.4	2 580	647 983	1.0	623	292 924	1.2	666	128 049	.8
WRA 13 Rio Grande	1 459 946	2 789 315	2.0	706	112 417	1.9	258	92 354	2.0	99	6 481	2.2
WRA 14 Upper Colorado	1 323 204	2 343 461	1.8	778	78 095	1.9	63	7 245	3.0	131	12 006	2.2
WRA 15 Lower Colorado	968 337	4 078 332	4.3	486	41 141	4.0	110	16 979	4.1	63	6 636	4.2
WRA 16 Great Basin	1 575 735	3 441 081	2.2	1 835	236 061	2.3	40	16 589	2.5	317	66 210	2.9
WRA 17 Pacific Northwest	6 617 236	12 520 544	1.9	19 470	2 611 541	1.6	564	280 470	2.0	1 574	338 582	1.3
WRA 18 California	8 461 324	24 490 297	3.0	14 988	911 109	2.4	1 104	9 310	2.2	441	57 779	2.7

See footnotes at end of table.

Table 5. **Estimated Quantity of Water Applied Using Only One Method of Distribution: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Only sprinkler systems—Con.						Only gravity flow systems					
	Only hand move			Only solid set and permanent			Total			Only gated pipe		
	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre
Conterminous United States	**26 107**	**1 130 876**	**1.6**	**13 512**	**578 177**	**2.5**	**96 595**	**19 858 344**	**2.0**	**16 963**	**3 559 567**	**1.4**
17 Western States, Arkansas, Florida, and Louisiana	**20 930**	**1 015 774**	**1.7**	**12 144**	**539 195**	**2.5**	**95 121**	**19 458 245**	**2.1**	**16 216**	**3 419 968**	**1.4**
Arizona	162	5 107	2.4	77	2 812	3.9	2 709	634 967	4.5	159	28 887	4.8
Arkansas	169	3 378	1.5	117	17 180	.7	3 776	1 540 608	1.4	132	51 056	.6
California	5 467	296 169	2.7	6 553	304 741	2.7	22 470	3 866 702	3.3	3 183	233 103	3.6
Colorado	403	23 809	1.6	89	6 772	1.4	9 766	1 712 517	1.7	750	124 851	1.5
Florida	355	5 907	1.1	1 732	94 757	1.4	793	454 319	1.8	68	12 882	1.3
Idaho	1 457	198 666	1.2	77	5 203	8.8	8 270	1 002 272	1.8	390	12 564	1.9
Kansas	106	6 060	.5	–	–	–	2 713	869 830	1.3	2 018	618 516	1.3
Louisiana	37	259	.8	13	5 253	2.0	1 944	463 167	1.7	173	40 900	1.3
Montana	1 362	67 876	1.5	76	152	.8	3 704	869 052	1.8	110	30 084	1.6
Nebraska	213	11 715	.3	–	–	–	8 101	1 626 665	1.2	5 139	910 985	1.1
Nevada	44	7 577	2.6	12	2 425	3.5	1 351	437 387	2.6	45	9 304	3.2
New Mexico	481	8 269	1.1	17	487	2.3	4 406	370 447	2.5	412	36 128	1.8
North Dakota	51	1 056	.6	–	–	–	146	40 993	1.4	11	2 940	1.1
Oklahoma	253	5 409	1.0	25	1 785	.6	490	144 294	1.2	286	82 963	1.3
Oregon	4 741	174 095	1.3	217	16 634	2.2	3 570	478 750	2.2	91	8 845	2.5
South Dakota	29	1 160	1.0	–	–	–	514	97 698	1.1	29	1 976	1.0
Texas	635	31 398	.5	–	–	–	8 389	2 959 861	1.4	2 631	1 157 307	1.2
Utah	894	31 071	1.6	86	1 837	2.9	6 535	580 245	2.2	195	24 178	3.0
Washington	3 929	131 539	1.7	3 022	68 672	3.6	2 173	173 596	2.4	266	7 465	3.0
Wyoming	142	5 254	.8	31	10 485	1.3	3 301	1 134 875	1.6	128	25 034	1.6
All other States	**5 177**	**115 102**	**.5**	**1 368**	**38 982**	**1.5**	**1 474**	**400 099**	**1.3**	**747**	**139 599**	**.8**
Water resources areas:												
WRA 01 New England	296	5 675	.5	253	6 857	1.7	21	377	1.5	–	–	–
WRA 02 Mid-Atlantic	1 146	38 180	.5	94	739	1.4	–	–	–	–	–	–
WRA 03 South Atlantic-Gulf	1 887	32 761	.6	1 985	98 142	1.4	885	454 470	1.8	68	12 882	1.3
WRA 04 Great Lakes	669	23 390	.5	302	8 243	.7	14	1 283	.7	5	500	.6
WRA 05 Ohio	1 103	11 566	.5	107	1 149	.6	37	587	.8	5	120	.5
WRA 06 Tennessee	146	1 060	.4	24	505	.7	11	45	.6	3	3	.8
WRA 07 Upper Mississippi	228	5 158	1.4	318	15 312	2.3	–	–	–	–	–	–
WRA 08 Lower Mississippi	70	140	.2	130	22 433	1.0	6 478	2 253 991	1.4	935	218 352	.9
WRA 09 Souris-Red-Rainy	54	1 175	.5	17	2 792	1.2	35	13 270	2.0	8	4 760	1.1
WRA 10 Missouri	962	36 630	1.6	81	11 485	1.3	18 875	4 139 987	1.4	6 065	1 042 618	1.1
WRA 11 Arkansas-White-Red	515	14 826	1.0	64	7 557	1.2	7 012	2 449 374	1.4	3 279	1 410 707	1.2
WRA 12 Texas-Gulf	752	32 388	.5	–	–	–	4 544	1 541 820	1.5	1 387	473 640	1.2
WRA 13 Rio Grande	315	10 655	1.1	17	487	2.3	6 388	958 627	2.0	471	35 896	1.9
WRA 14 Upper Colorado	439	22 049	1.7	–	–	–	6 171	927 830	1.8	499	50 189	3.1
WRA 15 Lower Colorado	194	7 397	2.8	77	2 812	3.9	3 202	680 237	4.3	162	30 087	4.8
WRA 16 Great Basin	947	43 287	1.6	98	4 262	3.2	6 164	858 766	2.3	146	17 836	3.1
WRA 17 Pacific Northwest	10 663	543 980	1.3	3 374	89 851	3.7	14 161	1 672 270	2.1	729	27 794	2.4
WRA 18 California	5 721	300 559	2.7	6 571	305 551	2.7	22 597	3 905 410	3.2	3 201	234 183	3.6

See footnotes at end of table.

Table 5. Estimated Quantity of Water Applied Using Only One Method of Distribution: 1984 —Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Only gravity flow systems—Con.						Only drip or trickle system			Only subirrigation		
	Only ditches with siphon tubes			Only flooding								
	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre
Conterminous United States	**34 134**	**5 358 205**	**2.3**	**31 321**	**5 889 744**	**2.2**	**7 358**	**338 492**	**1.9**	**1 097**	**289 835**	**3.8**
17 Western States, Arkansas, Florida, and Louisiana	**33 979**	**5 320 090**	**2.3**	**30 892**	**5 758 753**	**2.3**	**6 568**	**304 408**	**2.0**	**1 075**	**287 722**	**3.9**
Arizona	1 620	472 791	4.6	773	86 583	3.8	141	17 710	1.6	-	-	-
Arkansas	386	112 305	2.0	2 547	940 958	1.5	164	891	.5	66	10 300	2.2
California	4 782	924 598	3.2	12 513	1 593 345	3.2	4 280	192 926	2.3	368	17 995	3.0
Colorado	5 867	860 932	1.6	1 278	296 321	1.9	-	-	-	48	4 320	3.3
Florida	286	123 563	1.9	415	306 475	1.9	960	48 303	1.0	74	175 827	4.6
Idaho	3 969	335 580	1.8	2 157	348 670	1.6	-	-	-	155	21 654	4.7
Kansas	64	17 627	1.8	124	29 725	1.5	-	-	-	-	-	-
Louisiana	319	65 247	1.5	1 276	282 720	1.9	-	-	-	-	-	-
Montana	1 768	364 585	1.9	1 412	338 030	1.9	-	-	-	118	19 192	1.7
Nebraska	870	128 262	1.4	136	13 600	1.0	-	-	-	-	-	-
Nevada	589	135 362	2.7	633	235 468	2.6	-	-	-	11	7 960	1.5
New Mexico	2 838	205 148	2.5	993	88 655	2.5	97	890	1.8	100	3 475	3.1
North Dakota	67	17 150	1.4	34	5 195	1.4	2	(D)	(D)	-	-	-
Oklahoma	131	39 386	1.2	45	7 970	1.7	62	(D)	(D)	-	-	-
Oregon	1 917	152 634	2.4	1 238	255 565	2.0	10	10 451	1.8	111	15 659	2.1
South Dakota	146	23 384	1.0	107	13 245	1.0	-	-	-	-	-	-
Texas	1 825	462 985	1.5	1 840	319 653	2.5	528	15 348	1.1	-	-	-
Utah	4 079	309 720	2.3	1 862	189 986	2.0	151	13 070	1.9	10	7 500	1.0
Washington	1 046	96 278	2.2	687	35 131	2.5	173	3 918	2.1	-	-	-
Wyoming	1 410	472 553	1.4	822	371 458	1.4	-	-	-	14	3 840	2.1
All other States	**155**	**38 115**	**1.3**	**429**	**130 991**	**1.7**	**790**	**34 084**	**1.4**	**22**	**2 113**	**1.0**
Water resources areas:												
WRA 01 New England	17	373	1.5	4	4	1.2	22	164	.6	-	-	-
WRA 02 Mid-Atlantic	-	-	-	-	-	-	75	1 995	.5	-	-	-
WRA 03 South Atlantic-Gulf	287	123 623	1.9	506	306 566	1.9	1 271	70 254	1.3	75	177 077	4.6
WRA 04 Great Lakes	-	-	-	9	783	.7	242	8 752	.4	18	860	1.5
WRA 05 Ohio	22	397	.8	10	70	.7	28	146	.8	-	-	-
WRA 06 Tennessee	3	30	.7	5	12	.4	13	104	.4	3	3	.3
WRA 07 Upper Mississippi	-	-	-	-	-	-	36	720	.3	-	-	-
WRA 08 Lower Mississippi	765	194 827	1.6	3 795	1 262 841	1.6	99	566	.5	66	10 300	2.2
WRA 09 Souris-Red-Rainy	6	1 530	2.6	21	6 980	2.6	-	-	-	-	-	-
WRA 10 Missouri	5 844	1 209 345	1.5	2 369	634 672	1.5	65	272	.9	118	19 192	1.7
WRA 11 Arkansas-White-Red	1 612	306 532	1.7	955	197 977	1.9	245	2 622	1.7	1	(D)	(D)
WRA 12 Texas-Gulf	685	222 484	1.8	1 020	256 704	2.7	284	13 568	1.0	-	-	-
WRA 13 Rio Grande	3 850	465 080	1.8	1 754	194 488	2.5	223	1 254	1.4	24	(D)	(D)
WRA 14 Upper Colorado	3 714	420 807	1.7	1 134	294 421	1.6	25	1 750	1.1	125	7 095	3.0
WRA 15 Lower Colorado	1 907	505 146	4.5	941	96 806	3.7	141	17 710	1.6	-	-	-
WRA 16 Great Basin	3 518	344 852	2.4	2 086	397 478	2.2	126	11 320	2.0	21	15 460	1.3
WRA 17 Pacific Northwest	7 106	632 401	2.1	4 110	617 217	1.9	182	11 558	2.1	278	38 753	3.5
WRA 18 California	4 798	930 778	3.2	12 602	1 622 725	3.2	4 281	195 737	2.3	368	17 995	3.0

[1]May include some duplicate reporting of same land by two or more methods.

Table 6. **Estimated Quantity of Water Applied by Source: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Water applied from all sources			Wells					
				Total			Only source		
	Acres irrigated[1]	Acre-feet applied	Average acre-feet per acre	Farms	Acres irrigated	Acre-feet of water applied	Farms	Acres irrigated	Average acre-feet per acre
Conterminous United States	**45 821 428**	**82 740 224**	**1.8**	**100 703**	**24 286 826**	**36 244 369**	**81 335**	**19 807 023**	**1.4**
17 Western States, Arkansas, Florida, and Louisiana	**43 128 247**	**80 654 370**	**1.9**	**90 943**	**22 335 015**	**34 688 414**	**72 662**	**18 061 149**	**1.5**
Arizona	921 811	3 911 555	4.4	1 520	523 871	2 138 272	1 256	414 378	4.3
Arkansas	1 893 579	2 646 063	1.4	4 231	1 666 365	2 306 145	3 752	1 468 024	1.4
California	8 418 617	23 920 671	3.1	25 120	3 113 085	8 186 949	17 594	1 535 459	2.8
Colorado	3 261 015	5 131 216	1.7	4 338	1 397 906	1 944 576	2 800	1 124 797	1.4
Florida	1 448 764	2 759 946	1.9	5 361	789 307	1 084 495	5 069	618 917	1.4
Idaho	3 303 298	5 685 447	1.7	3 095	1 060 136	1 593 409	1 815	649 644	1.3
Kansas	2 322 740	3 139 371	1.4	5 660	2 139 026	2 902 065	5 262	2 013 913	1.4
Louisiana	591 206	973 971	1.7	1 759	393 704	623 478	1 547	331 444	1.6
Montana	1 906 014	3 433 785	1.8	534	56 024	72 680	378	41 840	1.0
Nebraska	5 873 895	6 286 468	1.1	17 207	5 018 952	5 209 038	14 323	4 355 984	1.0
Nevada	705 973	1 824 600	2.6	588	174 631	467 282	394	134 225	2.7
New Mexico	702 415	1 506 046	2.2	2 412	442 182	916 353	2 018	391 023	2.1
North Dakota	144 070	151 264	1.0	271	79 978	72 799	255	77 820	.9
Oklahoma	439 619	605 553	1.4	1 482	363 680	520 582	1 412	356 954	1.4
Oregon	1 798 243	3 560 509	2.0	3 083	366 162	578 575	2 317	252 155	1.5
South Dakota	339 388	312 330	.9	619	131 135	94 040	601	122 945	.7
Texas	4 934 191	6 768 673	1.4	9 447	4 012 220	4 882 780	8 948	3 768 511	1.2
Utah	1 059 551	2 259 050	2.1	893	123 404	276 004	494	89 230	2.3
Washington	1 505 205	3 214 731	2.2	2 934	397 880	683 813	2 213	265 405	1.6
Wyoming	1 558 653	2 563 125	1.7	389	85 367	135 081	214	48 481	1.4
All other States	**2 693 181**	**2 085 854**	**.8**	**9 760**	**1 951 811**	**1 555 955**	**8 673**	**1 745 874**	**.8**
Water resources areas:									
WRA 01 New England	25 096	30 064	1.2	178	2 966	2 692	143	1 852	.9
WRA 02 Mid-Atlantic	185 957	113 412	.6	1 065	106 936	60 395	893	89 449	.6
WRA 03 South Atlantic-Gulf	1 981 848	3 096 837	1.6	7 391	1 093 214	1 298 236	6 864	863 439	1.2
WRA 04 Great Lakes	449 135	290 273	.6	1 597	265 261	162 920	1 315	208 550	.6
WRA 05 Ohio	81 731	43 324	.5	422	52 879	27 451	387	48 501	.5
WRA 06 Tennessee	4 867	2 499	.5	49	213	104	49	213	.5
WRA 07 Upper Mississippi	584 140	445 078	.8	2 206	482 201	351 897	1 981	451 788	.7
WRA 08 Lower Mississippi	3 022 315	4 087 303	1.4	7 172	2 596 689	3 409 685	6 378	2 299 639	1.3
WRA 09 Souris-Red-Rainy	110 821	106 071	1.0	331	88 298	74 358	331	88 298	.8
WRA 10 Missouri	11 043 340	14 254 064	1.3	23 506	6 626 868	7 336 126	19 161	5 751 224	1.1
WRA 11 Arkansas-White-Red	4 803 196	6 695 428	1.4	9 459	4 167 867	5 543 152	8 981	3 949 303	1.3
WRA 12 Texas-Gulf	2 869 255	3 912 842	1.4	7 119	2 465 439	3 013 359	6 850	2 313 445	1.2
WRA 13 Rio Grande	1 508 544	2 789 315	2.0	2 298	517 656	941 606	1 513	360 621	2.1
WRA 14 Upper Colorado	1 304 918	2 343 461	1.8	285	18 382	36 955	129	4 897	5.2
WRA 15 Lower Colorado	988 276	4 078 332	4.3	1 822	546 500	2 196 509	1 529	435 702	4.2
WRA 16 Great Basin	1 570 743	3 441 081	2.2	1 463	308 539	734 543	844	229 539	2.4
WRA 17 Pacific Northwest	6 620 963	12 520 544	1.9	8 857	1 790 380	2 787 776	6 113	1 150 943	1.4
WRA 18 California	8 666 283	24 490 297	3.0	25 483	3 156 538	8 266 610	17 874	1 559 620	2.8

See footnotes at end of table.

Table 6. **Estimated Quantity of Water Applied by Source: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	On-farm surface sources						Off-farm water suppliers					
	Total			Only source			Total			Only source		
	Farms	Acres irrigated	Acre-feet of water applied	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Acre-feet of water applied	Farms	Acres irrigated	Average acre-feet per acre
Conterminous United States	**35 982**	**5 886 832**	**10 275 760**	**26 739**	**4 230 227**	**1.8**	**98 672**	**15 647 770**	**36 220 095**	**82 297**	**11 548 998**	**2.3**
17 Western States, Arkansas, Florida, and Louisiana	**25 286**	**5 167 612**	**9 786 448**	**17 176**	**3 688 642**	**1.9**	**98 107**	**15 625 620**	**36 179 508**	**81 882**	**11 529 714**	**2.3**
Arizona	177	23 384	97 013	111	8 424	4.4	1 994	374 556	1 676 270	1 783	291 567	4.6
Arkansas	967	215 311	316 394	505	120 543	1.6	83	11 903	23 523	66	5 325	2.2
California	3 448	684 855	1 687 875	2 137	406 794	2.4	27 931	4 620 677	14 045 847	20 686	2 694 711	3.2
Colorado	1 337	427 493	704 266	787	327 121	1.7	9 629	1 435 616	2 482 374	8 007	1 120 099	1.8
Florida	521	182 272	290 314	297	98 635	1.5	289	477 185	1 385 136	195	317 618	3.5
Idaho	1 756	284 293	424 781	907	172 433	1.5	12 581	1 958 869	3 667 257	10 944	1 586 194	1.8
Kansas	462	45 508	49 548	205	29 772	.9	536	138 206	187 758	289	64 232	1.3
Louisiana	721	179 625	315 567	563	125 226	1.9	125	17 877	34 926	60	10 100	1.8
Montana	2 882	766 567	1 760 214	2 506	693 585	2.3	4 967	1 083 423	1 600 891	4 536	955 068	1.5
Nebraska	1 756	162 678	117 080	210	38 780	1.1	3 372	692 265	960 351	1 799	392 742	1.4
Nevada	470	254 208	584 101	355	194 186	2.2	1 008	277 134	773 217	886	199 230	3.0
New Mexico	670	38 917	58 321	584	28 070	1.4	3 556	221 316	531 373	3 191	171 357	2.3
North Dakota	210	32 943	31 361	186	30 009	1.0	128	31 149	47 104	120	30 673	1.5
Oklahoma	386	31 422	29 430	337	29 866	1.0	247	44 517	55 541	226	41 564	1.2
Oregon	3 438	628 695	1 259 275	2 730	415 139	2.0	6 718	803 386	1 722 659	5 946	623 143	2.2
South Dakota	370	88 053	86 496	331	81 366	1.0	469	120 200	131 794	448	114 425	1.1
Texas	1 251	223 186	493 246	947	144 867	2.7	3 555	698 785	1 392 647	3 299	595 709	1.9
Utah	1 111	103 605	223 029	793	81 302	2.1	8 632	832 542	1 760 016	8 028	767 986	2.1
Washington	2 088	163 984	349 575	1 633	112 937	2.1	9 062	943 341	2 181 343	8 343	767 707	2.3
Wyoming	1 265	630 613	908 563	1 052	549 587	1.4	3 225	842 673	1 519 481	3 030	780 264	1.8
All other States	**10 696**	**719 220**	**489 312**	**9 563**	**541 585**	**.6**	**565**	**22 150**	**40 587**	**415**	**19 284**	**2.0**
Water resources areas:												
WRA 01 New England	731	21 261	26 860	679	17 883	1.0	76	869	512	53	544	.5
WRA 02 Mid-Atlantic	1 288	76 946	51 658	1 113	63 191	.6	149	2 075	1 360	60	1 458	.6
WRA 03 South Atlantic-Gulf	4 146	410 299	411 261	3 687	265 863	.9	290	478 335	1 387 340	196	318 768	3.5
WRA 04 Great Lakes	1 771	175 356	99 703	1 494	130 755	.6	71	8 518	27 650	66	7 158	3.8
WRA 05 Ohio	1 610	27 769	14 729	1 571	25 021	.5	108	1 083	1 144	104	1 055	1.1
WRA 06 Tennessee	246	4 625	2 376	246	4 625	.5	10	29	19	10	29	.7
WRA 07 Upper Mississippi	955	99 923	90 593	702	70 682	1.0	108	2 016	2 588	80	1 680	1.4
WRA 08 Lower Mississippi	1 680	395 971	618 764	958	223 691	1.7	144	29 655	58 854	61	15 100	2.0
WRA 09 Souris-Red-Rainy	90	18 323	28 775	90	18 323	1.6	21	4 200	2 938	21	4 200	.7
WRA 10 Missouri	5 894	1 447 720	2 302 786	3 455	1 168 024	1.7	13 721	2 968 752	4 615 152	10 665	2 334 317	1.6
WRA 11 Arkansas-White-Red	1 267	147 628	174 913	993	128 424	1.1	2 616	487 701	977 363	2 293	369 692	2.1
WRA 12 Texas-Gulf	1 085	185 705	441 158	875	129 587	3.0	945	218 111	458 325	861	191 683	2.0
WRA 13 Rio Grande	650	164 615	315 072	571	111 201	2.1	5 998	826 273	1 532 638	5 217	606 851	1.9
WRA 14 Upper Colorado	1 211	377 800	599 808	809	302 641	1.6	7 119	908 736	1 706 698	6 728	862 144	1.9
WRA 15 Lower Colorado	326	31 753	113 527	192	15 535	3.3	2 371	410 023	1 768 297	2 111	324 636	4.4
WRA 16 Great Basin	1 526	358 517	766 613	1 066	272 547	2.1	7 735	903 687	1 939 925	7 006	767 065	2.1
WRA 17 Pacific Northwest	7 903	1 148 632	2 235 603	5 997	780 491	1.9	28 823	3 681 951	7 497 165	25 716	2 983 140	2.0
WRA 18 California	3 603	793 989	1 981 560	2 241	501 743	2.5	28 367	4 715 756	14 242 127	21 049	2 759 478	3.1

[1]May include some duplicate reporting of same land by two or more sources.

Table 7. **Irrigation by Quantity of Water Applied: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Total			Less than 100 acre-feet			100 to 149 acre-feet			150 to 199 acre-feet		
	Farms	Acres irrigated	Acre-feet of water applied	Farms	Acres irrigated	Water applied	Farms	Acres irrigated	Water applied	Farms	Acres irrigated	Water applied
Conterminous United States	**212 354**	**44 730 913**	**82 740 224**	**109 510**	**3 739 371**	**3 485 523**	**17 670**	**2 101 561**	**2 152 056**	**11 997**	**1 712 456**	**2 075 035**
17 Western States, Arkansas, Florida, and Louisiana	**192 519**	**42 046 175**	**80 654 370**	**93 882**	**2 940 114**	**3 132 092**	**16 777**	**1 912 281**	**2 043 318**	**11 092**	**1 497 962**	**1 918 880**
Arizona	3 420	893 202	3 911 555	1 587	19 617	48 052	206	9 836	24 211	164	11 264	28 278
Arkansas	4 802	1 872 308	2 646 063	1 014	65 082	43 299	215	20 197	27 896	420	57 014	69 180
California	48 290	7 805 102	23 920 671	30 242	499 654	977 883	3 050	196 215	369 483	2 340	152 298	403 671
Colorado	13 443	3 104 875	5 131 216	5 105	189 953	187 959	1 661	189 046	196 052	749	72 206	129 660
Florida	5 862	1 437 976	2 759 946	4 308	134 784	99 914	362	45 041	43 286	233	36 373	39 740
Idaho	15 498	3 254 633	5 685 447	6 798	274 282	233 294	1 352	170 222	169 208	1 048	144 013	185 682
Kansas	6 175	2 314 580	3 139 371	1 507	100 039	73 752	807	99 097	101 146	743	116 464	127 841
Louisiana	2 382	578 806	973 971	758	43 690	24 676	182	19 273	21 121	151	18 580	26 391
Montana	7 900	1 877 131	3 433 785	3 457	147 177	119 688	681	108 253	82 044	338	64 533	56 806
Nebraska	19 216	5 827 841	6 286 468	4 051	399 455	220 575	3 044	507 936	377 126	1 890	362 888	345 194
Nevada	1 844	698 490	1 824 600	517	13 275	16 717	192	14 101	23 739	70	5 355	11 243
New Mexico	6 213	674 440	1 506 046	4 132	75 091	105 535	371	24 633	44 574	313	35 094	53 821
North Dakota	585	144 070	151 264	215	14 346	7 986	73	11 811	9 375	48	9 872	8 113
Oklahoma	2 045	439 619	605 553	1 083	53 196	42 307	134	18 265	15 973	112	17 653	19 084
Oregon	12 066	1 776 018	3 560 509	7 818	196 187	209 411	856	66 946	105 030	315	41 603	52 945
South Dakota	1 419	339 388	312 330	528	55 267	27 739	234	39 584	29 019	166	42 274	26 570
Texas	13 716	4 921 407	6 768 673	5 279	267 386	181 278	1 250	208 909	150 935	528	184 690	92 147
Utah	9 952	1 053 650	2 259 050	5 410	144 993	184 286	885	68 513	107 928	517	34 051	82 643
Washington	13 107	1 482 463	3 214 731	8 574	171 220	265 403	899	54 125	107 217	601	54 088	103 581
Wyoming	4 584	1 550 176	2 563 125	1 499	75 420	62 340	323	40 278	37 958	346	37 649	56 290
All other States	**19 835**	**2 684 738**	**2 085 854**	**15 628**	**799 257**	**353 431**	**893**	**189 280**	**108 738**	**905**	**214 494**	**156 155**
Water resources areas:												
WRA 01 New England	929	24 991	30 064	878	15 334	11 288	14	1 950	1 662	17	1 406	2 796
WRA 02 Mid-Atlantic	2 284	183 793	113 412	2 022	93 138	36 071	90	16 034	11 676	51	17 075	8 662
WRA 03 South Atlantic-Gulf	11 283	1 970 122	3 096 837	9 002	338 055	183 420	526	89 647	63 816	370	74 338	62 047
WRA 04 Great Lakes	3 157	447 259	290 273	2 482	157 204	66 749	153	34 219	17 395	167	42 390	28 984
WRA 05 Ohio	2 101	81 164	43 324	1 999	40 573	18 425	48	(D)	(D)	19	(D)	(D)
WRA 06 Tennessee	305	4 867	2 499	301	3 710	1 636	1	(D)	(D)	1	(D)	(D)
WRA 07 Upper Mississippi	3 016	584 140	445 078	2 088	178 328	86 601	214	43 502	26 014	163	31 230	27 449
WRA 08 Lower Mississippi	8 191	2 985 991	4 087 303	1 912	139 539	74 835	506	64 228	61 301	823	145 012	141 842
WRA 09 Souris-Red-Rainy	442	110 681	106 071	237	19 188	11 061	39	7 625	4 852	37	7 250	6 123
WRA 10 Missouri	38 042	10 921 193	14 254 064	10 460	737 097	464 446	5 109	795 364	631 426	3 332	573 168	590 401
WRA 11 Arkansas-White-Red	12 804	4 767 072	6 695 428	4 404	239 409	179 835	1 218	145 535	149 276	1 058	167 483	178 455
WRA 12 Texas-Gulf	8 867	2 860 311	3 912 842	3 074	183 863	113 699	754	159 478	89 254	489	158 220	85 483
WRA 13 Rio Grande	8 114	1 413 624	2 789 315	5 008	114 110	131 742	747	65 594	88 638	168	16 247	28 687
WRA 14 Upper Colorado	8 130	1 289 172	2 343 461	4 049	117 998	147 920	786	75 601	92 204	317	28 965	52 143
WRA 15 Lower Colorado	4 175	959 550	4 078 332	2 080	31 157	61 699	225	10 782	26 475	201	13 809	35 168
WRA 16 Great Basin	9 784	1 558 276	3 441 081	4 856	143 480	163 595	884	67 569	107 769	577	53 491	95 036
WRA 17 Pacific Northwest	41 604	6 520 511	12 520 544	24 064	679 456	744 629	3 201	309 859	392 033	1 867	223 444	324 763
WRA 18 California	49 126	8 048 196	24 490 297	30 594	507 732	987 871	3 155	203 063	382 251	2 340	152 298	403 671

Table 7. **Irrigation by Quantity of Water Applied: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	200 to 499 acre-feet			500 to 999 acre-feet			1,000 acre-feet or more		
	Farms	Acres irrigated	Water applied	Farms	Acres irrigated	Water applied	Farms	Acres irrigated	Water applied
Conterminous United States	**37 301**	**8 917 545**	**11 761 707**	**18 579**	**7 823 964**	**13 024 119**	**17 297**	**20 436 016**	**50 241 784**
17 Western States, Arkansas, Florida, and Louisiana	**35 705**	**8 212 774**	**11 268 239**	**18 087**	**7 509 799**	**12 673 720**	**16 976**	**19 973 245**	**49 618 121**
Arizona	350	32 131	110 140	258	46 201	179 615	855	774 153	3 521 259
Arkansas	1 130	379 323	379 925	1 366	623 179	933 977	657	727 513	1 191 787
California	5 102	620 784	1 627 981	2 785	743 458	1 974 444	4 771	5 592 693	18 567 209
Colorado	3 138	699 322	987 617	1 724	709 766	1 209 179	1 066	1 244 582	2 420 749
Florida	420	127 570	134 085	217	108 671	145 370	322	985 537	2 297 551
Idaho	3 440	757 506	1 100 112	1 546	581 499	1 017 929	1 314	1 327 111	2 979 223
Kansas	1 450	427 377	457 584	794	488 457	601 372	874	1 083 146	1 777 676
Louisiana	738	169 117	248 885	399	152 133	282 974	154	176 013	369 923
Montana	1 959	428 704	600 307	751	303 932	510 445	714	824 532	2 064 496
Nebraska	7 170	2 137 479	2 209 473	2 164	1 358 096	1 616 333	897	1 061 987	1 517 767
Nevada	357	57 423	113 082	259	66 080	186 290	449	542 256	1 473 529
New Mexico	615	90 290	188 241	400	137 849	294 694	382	311 483	819 182
North Dakota	159	46 547	51 270	71	41 268	45 211	19	20 226	29 309
Oklahoma	414	108 472	116 592	138	66 358	93 175	164	175 675	318 422
Oregon	1 555	304 177	487 271	820	271 887	582 692	702	895 218	2 123 162
South Dakota	372	108 449	111 010	83	40 517	50 912	36	53 297	67 080
Texas	2 912	918 260	967 437	1 834	939 738	1 221 427	1 913	2 402 424	4 155 450
Utah	1 818	273 955	561 398	952	276 715	647 449	370	255 423	675 345
Washington	1 552	257 700	503 486	815	242 454	563 344	666	702 876	1 671 701
Wyoming	1 054	268 188	312 343	711	311 541	516 890	651	817 100	1 577 303
All other States	**1 596**	**704 771**	**493 469**	**492**	**314 165**	**350 399**	**321**	**462 771**	**623 663**
Water resources areas:									
WRA 01 New England	13	(D)	(D)	4	1 220	3 160	3	(D)	(D)
WRA 02 Mid-Atlantic	99	40 211	29 182	16	8 913	13 598	6	8 422	14 223
WRA 03 South Atlantic-Gulf	755	255 345	228 109	265	147 206	187 862	365	1 065 531	2 371 583
WRA 04 Great Lakes	291	127 423	87 300	43	40 512	30 792	21	45 511	59 053
WRA 05 Ohio	28	14 366	8 642	6	4 761	4 482	1	(D)	(D)
WRA 06 Tennessee	2	(D)	(D)	–	–	–	–	–	–
WRA 07 Upper Mississippi	333	145 975	102 019	169	102 849	111 974	49	82 256	91 021
WRA 08 Lower Mississippi	2 140	705 468	724 541	1 897	862 508	1 302 012	913	1 069 236	1 782 772
WRA 09 Souris-Red-Rainy	66	22 867	20 537	48	32 951	34 779	15	20 800	28 720
WRA 10 Missouri	11 985	3 320 626	3 682 293	4 437	2 333 389	3 160 994	2 719	3 161 549	5 724 504
WRA 11 Arkansas-White-Red	2 590	711 315	796 708	1 625	950 821	1 201 423	1 909	2 552 509	4 189 731
WRA 12 Texas-Gulf	2 273	735 608	768 738	1 280	581 718	858 748	997	1 041 424	1 996 920
WRA 13 Rio Grande	772	161 893	245 784	678	282 729	479 124	741	773 051	1 815 341
WRA 14 Upper Colorado	1 733	340 486	542 118	859	278 690	615 756	386	447 432	893 320
WRA 15 Lower Colorado	432	42 009	133 618	360	74 773	260 248	877	787 020	3 561 124
WRA 16 Great Basin	1 903	319 266	583 418	889	269 116	599 796	675	705 354	1 891 467
WRA 17 Pacific Northwest	6 635	1 322 956	2 132 602	3 109	1 071 060	2 106 476	2 728	2 913 736	6 820 043
WRA 18 California	5 251	648 886	1 671 516	2 894	780 748	2 052 897	4 892	5 755 469	18 992 091

Table 8. **Irrigation Wells on Farms: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Wells capable of being used		Wells used		Farms by number of wells used in 1984									
	Farms	Number	Farms	Number	1 well	2 wells	3 wells	4 wells	5 wells	6 wells	7 wells	8 wells	9 wells	10 wells or more
Conterminous United States	**107 798**	**353 243**	**100 703**	**316 941**	**47 728**	**18 785**	**10 668**	**6 471**	**4 180**	**3 224**	**1 815**	**1 625**	**1 304**	**4 903**
17 Western States, Arkansas, Florida, and Louisiana	**97 510**	**329 966**	**90 943**	**295 908**	**41 678**	**17 307**	**9 926**	**5 891**	**3 910**	**2 994**	**1 727**	**1 561**	**1 253**	**4 696**
Arizona	1 659	6 125	1 520	5 279	695	273	188	42	110	51	16	28	12	105
Arkansas	4 278	21 078	4 231	17 026	835	652	795	497	468	356	206	96	125	201
California	27 521	67 770	25 120	58 301	14 983	4 363	2 076	1 154	548	293	341	429	168	765
Colorado	4 943	17 809	4 338	15 302	1 629	1 197	439	345	153	174	110	39	76	176
Florida	5 497	29 017	5 361	26 886	2 949	1 151	354	222	130	77	88	51	58	281
Idaho	3 562	7 371	3 095	6 548	1 851	721	85	79	150	49	79	6	6	69
Kansas	5 711	18 658	5 660	18 020	2 082	1 220	679	678	289	199	104	113	92	204
Louisiana	1 866	4 558	1 759	3 847	814	401	281	136	34	37	25	14	12	5
Montana	734	997	534	774	406	52	48	25	-	1	2	-	-	-
Nebraska	17 349	61 361	17 207	59 895	5 290	3 413	3 496	1 497	1 032	615	288	143	327	1 106
Nevada	689	2 332	588	1 991	317	121	55	20	30	12	5	6	3	19
New Mexico	2 887	8 031	2 412	6 680	1 239	387	247	165	62	127	39	34	15	97
North Dakota	271	808	271	808	141	51	19	9	14	-	9	3	11	14
Oklahoma	1 521	4 351	1 482	3 955	783	212	158	96	65	67	15	15	11	60
Oregon	3 561	9 241	3 083	8 038	2 116	598	135	60	43	30	13	26	14	48
South Dakota	631	1 266	619	1 135	322	194	59	13	5	22	-	1	1	2
Texas	9 748	59 636	9 447	53 816	2 454	1 499	640	616	686	851	358	535	320	1 488
Utah	1 216	2 295	893	1 746	604	131	13	68	41	2	4	-	1	29
Washington	3 321	5 853	2 934	4 930	1 961	587	134	158	27	10	23	22	1	11
Wyoming	545	1 409	389	931	207	84	25	11	23	21	2	-	-	16
All other States	**10 288**	**23 277**	**9 760**	**21 033**	**6 050**	**1 478**	**742**	**580**	**270**	**230**	**88**	**64**	**51**	**207**
Water resources areas:														
WRA 01 New England	202	403	178	290	124	28	15	-	3	7	-	1	-	-
WRA 02 Mid-Atlantic	1 125	2 321	1 065	2 106	655	164	81	90	20	15	21	2	9	8
WRA 03 South Atlantic-Gulf	7 775	32 619	7 391	30 099	4 429	1 345	586	315	135	82	91	54	61	293
WRA 04 Great Lakes	1 647	3 018	1 597	2 838	1 055	298	118	64	11	13	9	4	3	22
WRA 05 Ohio	463	861	422	675	308	65	22	11	9	3	-	-	-	4
WRA 06 Tennessee	62	69	49	52	48	-	-	1	-	-	-	-	-	-
WRA 07 Upper Mississippi	2 234	4 583	2 206	4 452	1 532	278	105	85	67	57	19	5	22	36
WRA 08 Lower Mississippi	7 347	31 142	7 172	25 850	1 993	1 181	1 231	846	578	517	247	99	151	329
WRA 09 Souris-Red-Rainy	338	848	331	838	208	43	28	8	5	5	6	5	11	12
WRA 10 Missouri	24 032	81 167	23 506	78 075	7 998	5 242	4 022	2 082	1 083	878	363	171	403	1 264
WRA 11 Arkansas-White-Red	9 925	43 252	9 459	39 563	3 254	1 646	943	849	772	484	153	418	177	763
WRA 12 Texas-Gulf	7 231	42 036	7 119	38 295	1 786	1 287	610	379	435	661	347	339	232	1 043
WRA 13 Rio Grande	2 944	8 622	2 298	6 050	1 240	369	185	141	113	54	76	10	30	80
WRA 14 Upper Colorado	477	577	285	313	258	26	1	-	-	-	-	-	-	-
WRA 15 Lower Colorado	1 988	6 732	1 822	5 806	900	326	205	60	114	52	17	28	12	108
WRA 16 Great Basin	1 757	4 394	1 463	3 659	943	224	60	88	67	14	9	6	4	48
WRA 17 Pacific Northwest	10 358	22 313	8 857	19 200	5 701	1 873	370	293	220	85	115	54	21	125
WRA 18 California	27 893	68 286	25 483	58 780	15 296	4 390	2 086	1 159	548	297	342	429	168	768

Table 9. **Irrigation Wells Used on Farms by Pumping Depth: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Farms	Wells used	Flowing or artesian wells		Pumped wells[1]					
			Farms	Number	Farms	Number	Average well depth (feet)	Average depth to water (feet)	Average pumping depth[2] (feet)	Average pumping capacity (GPM)
Conterminous United States	**100 703**	**316 941**	**776**	**2 276**	**100 062**	**314 665**	**235**	**92**	**145**	**830**
17 Western States, Arkansas, Florida, and Louisiana	**90 943**	**295 908**	**759**	**2 255**	**90 319**	**293 653**	**242**	**96**	**150**	**818**
Arizona	1 520	5 279	3	3	1 520	5 276	628	250	352	1 105
Arkansas	4 231	17 026	-	-	4 231	17 026	128	52	90	1 230
California	25 120	58 301	21	41	25 119	58 260	291	79	141	850
Colorado	4 338	15 302	49	51	4 338	15 251	167	69	110	898
Florida	5 361	26 886	177	1 116	5 202	25 770	214	30	58	879
Idaho	3 095	6 548	259	392	2 849	6 156	319	150	206	1 230
Kansas	5 660	18 020	-	-	5 660	18 020	213	101	160	785
Louisiana	1 759	3 847	-	-	1 759	3 847	213	63	119	1 524
Montana	534	774	-	-	534	774	178	53	107	589
Nebraska	17 207	59 895	-	-	17 207	59 895	192	82	134	870
Nevada	588	1 991	12	52	580	1 939	343	80	148	1 244
New Mexico	2 412	6 680	19	28	2 393	6 652	297	111	177	753
North Dakota	271	808	-	-	271	808	82	24	54	710
Oklahoma	1 482	3 955	-	-	1 482	3 955	230	94	179	593
Oregon	3 083	8 038	45	46	3 040	7 992	195	57	110	539
South Dakota	619	1 135	-	-	619	1 135	122	34	72	681
Texas	9 447	53 816	-	-	9 447	53 816	284	172	229	516
Utah	893	1 746	154	506	765	1 240	285	88	155	902
Washington	2 934	4 930	-	-	2 934	4 930	257	93	152	538
Wyoming	389	931	20	20	369	911	165	55	117	664
All other States	**9 760**	**21 033**	**17**	**21**	**9 743**	**21 012**	**136**	**32**	**73**	**989**
Water resources areas:										
WRA 01 New England	178	290	4	8	174	282	98	28	68	629
WRA 02 Mid-Atlantic	1 065	2 106	-	-	1 065	2 106	132	38	77	657
WRA 03 South Atlantic-Gulf	7 391	30 099	190	1 129	7 219	28 970	215	32	63	872
WRA 04 Great Lakes	1 597	2 838	-	-	1 597	2 838	126	34	76	673
WRA 05 Ohio	422	675	-	-	422	675	107	28	64	811
WRA 06 Tennessee	49	52	-	-	49	52	169	55	131	893
WRA 07 Upper Mississippi	2 206	4 452	-	-	2 206	4 452	126	28	70	892
WRA 08 Lower Mississippi	7 172	25 850	-	-	7 172	25 850	136	48	89	1 318
WRA 09 Souris-Red-Rainy	331	838	-	-	331	838	89	23	59	768
WRA 10 Missouri	23 506	78 075	20	20	23 486	78 055	187	80	130	859
WRA 11 Arkansas-White-Red	9 459	39 563	-	-	9 459	39 563	252	134	196	672
WRA 12 Texas-Gulf	7 119	38 295	-	-	7 119	38 295	270	163	217	523
WRA 13 Rio Grande	2 298	6 050	68	79	2 279	5 971	277	80	143	906
WRA 14 Upper Colorado	285	313	-	-	285	313	147	53	97	795
WRA 15 Lower Colorado	1 822	5 806	3	3	1 822	5 803	598	238	336	1 070
WRA 16 Great Basin	1 463	3 659	166	558	1 327	3 101	327	84	153	1 119
WRA 17 Pacific Northwest	8 857	19 200	261	395	8 611	18 805	248	94	150	762
WRA 18 California	25 483	58 780	64	84	25 439	58 696	291	80	141	848

See footnotes at end of table.

Table 9. **Irrigation Wells Used on Farms by Pumping Depth: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Pumping depth less than 50 feet[1]						Pumping depth 50 to 99 feet[1]					
	Farms	Wells	Average well depth (feet)	Average depth to water (feet)	Average pumping depth[2] (feet)	Average pumping capacity (GPM)	Farms	Wells	Average well depth (feet)	Average depth to water (feet)	Average pumping depth[2] (feet)	Average pumping capacity (GPM)
Conterminous United States	**13 299**	**43 796**	**57**	**14**	**29**	**779**	**32 551**	**77 989**	**151**	**36**	**72**	**912**
17 Western States, Arkansas, Florida, and Louisiana	**10 997**	**38 858**	**55**	**14**	**29**	**771**	**26 413**	**64 950**	**154**	**37**	**72**	**880**
Arizona	122	206	130	16	33	2 004	213	470	138	39	71	892
Arkansas	320	825	93	18	38	1 216	3 232	12 333	120	43	80	1 225
California	2 445	3 761	109	20	35	607	8 532	17 163	170	37	72	808
Colorado	1 233	2 148	53	15	30	806	1 420	4 123	120	31	67	940
Florida	1 086	13 174	39	9	19	956	3 079	8 536	273	37	66	769
Idaho	222	349	113	12	19	1 031	445	730	185	36	72	922
Kansas	1 122	3 217	45	16	34	494	1 427	2 580	91	27	68	700
Louisiana	66	209	93	12	27	1 675	505	1 088	109	41	73	1 514
Montana	187	284	55	14	33	324	92	92	149	54	82	309
Nebraska	1 848	7 562	55	15	34	792	3 827	10 173	125	32	70	864
Nevada	10	14	235	13	28	679	96	150	197	29	67	1 179
New Mexico	98	218	111	19	36	484	568	1 173	156	45	78	822
North Dakota	120	469	51	15	32	680	115	245	106	32	69	755
Oklahoma	213	566	48	19	35	364	230	474	79	34	67	479
Oregon	351	984	58	14	27	535	807	1 263	153	39	69	477
South Dakota	206	327	57	23	37	607	357	618	134	29	67	688
Texas	452	3 227	47	20	39	530	476	2 450	101	49	77	488
Utah	21	21	480	29	31	1 212	171	171	231	46	83	1 014
Washington	809	1 122	44	11	25	358	681	929	122	40	72	362
Wyoming	66	175	49	22	38	381	140	189	108	42	80	597
All other States	**2 302**	**4 938**	**72**	**13**	**30**	**838**	**6 138**	**13 039**	**136**	**29**	**72**	**1 073**
Water resources areas:												
WRA 01 New England	77	118	43	11	22	624	77	120	115	34	81	641
WRA 02 Mid-Atlantic	358	552	96	14	25	532	600	1 213	126	29	75	708
WRA 03 South Atlantic-Gulf	1 339	13 437	40	9	19	948	4 456	10 402	261	37	68	773
WRA 04 Great Lakes	453	845	55	13	29	511	900	1 472	135	32	75	783
WRA 05 Ohio	125	(D)	57	13	28	789	282	388	120	31	73	800
WRA 06 Tennessee	1	(D)	(D)	(D)	(D)	(D)	23	23	117	34	77	865
WRA 07 Upper Mississippi	453	1 114	73	17	33	689	1 275	2 555	120	25	70	966
WRA 08 Lower Mississippi	656	1 940	82	14	32	1 296	4 629	17 341	117	39	77	1 304
WRA 09 Souris-Red-Rainy	106	409	50	13	32	742	185	326	113	30	71	808
WRA 10 Missouri	3 827	11 025	54	16	33	752	5 867	14 233	126	32	70	844
WRA 11 Arkansas-White-Red	1 491	6 614	48	17	36	569	1 860	3 803	106	32	71	890
WRA 12 Texas-Gulf	245	738	62	20	36	581	620	2 967	101	50	78	459
WRA 13 Rio Grande	97	208	161	13	37	1 304	715	2 153	146	24	62	1 045
WRA 14 Upper Colorado	17	19	62	24	36	716	102	102	108	31	75	619
WRA 15 Lower Colorado	153	263	112	17	34	1 622	263	539	137	38	71	895
WRA 16 Great Basin	27	27	467	24	28	1 072	209	244	240	41	76	1 237
WRA 17 Pacific Northwest	1 419	2 493	59	12	25	524	1 903	2 850	149	38	71	549
WRA 18 California	2 455	3 771	109	20	35	606	8 585	17 258	170	37	72	807

See footnotes at end of table.

Table 9. **Irrigation Wells Used on Farms by Pumping Depth: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Pumping depth 100 to 199 feet[1]						Pumping depth 200 to 299 feet[1]					
	Farms	Wells	Average well depth (feet)	Average depth to water (feet)	Average pumping depth[2] (feet)	Average pumping capacity (GPM)	Farms	Wells	Average well depth (feet)	Average depth to water (feet)	Average pumping depth[2] (feet)	Average pumping capacity (GPM)
Conterminous United States	**40 615**	**116 476**	**243**	**87**	**139**	**806**	**16 843**	**48 464**	**340**	**157**	**238**	**756**
17 Western States, Arkansas, Florida, and Louisiana	**39 063**	**113 940**	**243**	**88**	**139**	**804**	**16 555**	**48 096**	**340**	**157**	**238**	**757**
Arizona	286	512	316	76	133	955	526	1 280	476	168	255	1 104
Arkansas	874	3 546	151	89	124	1 245	40	(D)	281	69	200	1 281
California	11 960	26 748	299	78	138	857	3 096	7 042	448	118	233	934
Colorado	1 393	6 781	171	73	117	867	539	1 778	347	173	237	1 035
Florida	1 015	3 257	674	58	120	908	163	402	418	78	237	542
Idaho	765	1 808	226	106	152	1 244	1 265	2 303	380	171	238	1 169
Kansas	2 289	7 001	223	102	154	780	1 002	(D)	306	155	238	919
Louisiana	1 016	2 112	256	67	123	1 590	226	438	320	125	257	1 157
Montana	251	315	216	47	121	778	27	33	473	56	246	761
Nebraska	10 830	31 756	207	85	138	841	3 415	8 117	289	151	230	896
Nevada	428	1 583	345	79	144	1 221	72	(D)	439	110	221	1 505
New Mexico	1 251	3 265	268	98	150	790	421	1 147	432	136	238	662
North Dakota	68	94	174	49	127	741	-	-	-	-	-	-
Oklahoma	585	1 456	207	83	159	572	274	822	345	129	250	760
Oregon	1 586	4 901	193	51	107	545	489	586	361	157	244	633
South Dakota	132	169	181	62	144	772	21	21	286	121	200	924
Texas	2 556	15 502	196	133	163	426	4 478	19 867	304	177	241	507
Utah	534	829	254	76	141	916	117	144	379	130	225	989
Washington	1 064	1 849	242	79	139	533	334	422	405	146	249	654
Wyoming	180	456	198	59	137	780	50	86	336	130	236	771
All other States	**1 552**	**2 536**	**212**	**61**	**126**	**902**	**288**	**368**	**381**	**105**	**229**	**727**
Water resources areas:												
WRA 01 New England	26	38	182	55	148	603	6	6	300	49	211	667
WRA 02 Mid-Atlantic	115	281	158	60	113	692	8	8	400	120	260	300
WRA 03 South Atlantic-Gulf	1 434	4 060	591	61	124	903	313	612	421	87	235	672
WRA 04 Great Lakes	274	409	184	57	128	716	86	93	327	117	229	283
WRA 05 Ohio	39	63	190	66	130	930	2	(D)	(D)	(D)	(D)	(D)
WRA 06 Tennessee	19	21	174	72	144	955	5	5	289	56	274	950
WRA 07 Upper Mississippi	581	741	216	52	120	952	29	42	300	100	200	733
WRA 08 Lower Mississippi	1 942	5 809	190	80	124	1 383	266	758	304	101	233	1 210
WRA 09 Souris-Red-Rainy	73	101	163	42	122	739	2	2	258	21	228	1 000
WRA 10 Missouri	12 606	39 200	202	83	135	840	4 176	10 562	296	155	233	918
WRA 11 Arkansas-White-Red	3 041	10 734	212	111	157	649	2 356	11 446	306	170	242	562
WRA 12 Texas-Gulf	2 467	14 260	198	126	160	474	3 066	11 671	311	176	240	564
WRA 13 Rio Grande	907	1 963	294	90	146	890	584	1 267	400	134	231	644
WRA 14 Upper Colorado	190	190	174	67	114	894	2	(D)	(D)	(D)	(D)	(D)
WRA 15 Lower Colorado	467	768	304	85	144	891	546	1 321	482	167	255	1 087
WRA 16 Great Basin	919	2 331	314	77	142	1 106	321	423	396	123	226	1 134
WRA 17 Pacific Northwest	3 491	8 651	209	68	123	692	1 794	2 989	386	164	241	1 034
WRA 18 California	12 024	26 856	300	78	138	857	3 281	7 255	445	120	234	926

See footnotes at end of table.

Table 9. **Irrigation Wells Used on Farms by Pumping Depth: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Pumping depth 300 to 499[1]						Pumping depth 500 feet or more[1]					
	Farms	Wells	Average well depth (feet)	Average depth to water (feet)	Average pumping depth[2] (feet)	Average pumping capacity (GPM)	Farms	Wells	Average well depth (feet)	Average depth to water (feet)	Average pumping depth[2] (feet)	Average pumping capacity (GPM)
Conterminous United States	**6 723**	**24 287**	**471**	**252**	**358**	**873**	**1 146**	**3 653**	**946**	**436**	**618**	**1 122**
17 Western States, Arkansas, Florida, and Louisiana	**6 594**	**24 156**	**472**	**252**	**358**	**874**	**1 146**	**3 653**	**946**	**436**	**618**	**1 122**
Arizona	342	1 347	694	251	365	1 245	274	1 461	1 037	482	636	972
Arkansas	1	(D)	(D)	(D)	(D)	(D)	-	-	-	-	-	-
California	1 127	2 900	605	247	360	1 032	188	646	1 086	439	668	1 315
Colorado	206	421	376	202	310	880	-	-	-	-	-	-
Florida	143	277	658	243	393	563	17	124	1 034	324	741	1 401
Idaho	306	780	499	296	367	1 494	96	186	641	397	547	2 329
Kansas	708	2 077	450	239	366	1 155	1	(D)	(D)	(D)	(D)	(D)
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Montana	23	50	497	309	392	1 300	-	-	-	-	-	-
Nebraska	592	2 287	381	233	353	1 472	-	-	-	-	-	-
Nevada	17	(D)	482	218	338	1 586	1	(D)	(D)	(D)	(D)	(D)
New Mexico	271	822	454	241	359	699	24	27	902	336	633	1 017
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	281	619	405	178	343	720	9	(D)	572	461	541	561
Oregon	162	196	483	151	357	346	31	62	899	373	554	1 187
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Texas	2 071	11 854	431	264	356	621	402	916	723	391	550	892
Utah	75	75	525	243	384	243	-	-	-	-	-	-
Washington	264	400	628	278	384	910	103	208	1 134	440	656	1 398
Wyoming	5	5	395	25	365	800	-	-	-	-	-	-
All other States	**129**	**131**	**425**	**246**	**381**	**843**	**-**	**-**	**-**	**-**	**-**	**-**
Water resources areas:												
WRA 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
WRA 02 Mid-Atlantic	52	52	471	377	434	652	-	-	-	-	-	-
WRA 03 South Atlantic-Gulf	199	335	614	224	387	668	17	124	1 034	324	741	1 401
WRA 04 Great Lakes	19	19	354	237	324	426	-	-	-	-	-	-
WRA 05 Ohio	-	-	-	-	-	-	-	-	-	-	-	-
WRA 06 Tennessee	2	(D)	(D)	(D)	(D)	(D)	-	-	-	-	-	-
WRA 07 Upper Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
WRA 08 Lower Mississippi	1	(D)	(D)	(D)	(D)	(D)	-	-	-	-	-	-
WRA 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-
WRA 10 Missouri	940	3 035	377	221	344	1 356	-	-	-	-	-	-
WRA 11 Arkansas-White-Red	1 682	6 125	472	263	382	865	346	841	694	400	551	869
WRA 12 Texas-Gulf	1 281	8 579	405	257	342	563	65	80	923	290	539	876
WRA 13 Rio Grande	251	336	540	192	328	802	25	44	940	380	601	1 281
WRA 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
WRA 15 Lower Colorado	389	1 451	677	251	362	1 211	274	1 461	1 037	482	636	972
WRA 16 Great Basin	48	(D)	567	215	384	1 056	1	(D)	(D)	(D)	(D)	(D)
WRA 17 Pacific Northwest	722	(D)	534	272	371	1 167	230	(D)	901	413	598	1 749
WRA 18 California	1 137	2 910	605	246	360	1 030	188	646	1 086	439	668	1 315

[1]Data do not include flowing or artesian wells.
[2]Depth to bowls or impellers.

Table 10. **Irrigation Pumps on Farms by Type: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Total pumps[1]											
			Farms with—									
	Farms	Pumps	1 pump	2 pumps	3 pumps	4 pumps	5 pumps	6 pumps	7 pumps	8 pumps	9 pumps	10 pumps or more
Conterminous United States	**136 976**	**470 330**	**60 054**	**28 579**	**14 241**	**9 056**	**6 263**	**4 433**	**2 730**	**2 108**	**1 636**	**7 876**
17 Western States, Arkansas, Florida, and Louisiana	**119 065**	**420 862**	**50 042**	**24 922**	**12 702**	**8 064**	**5 688**	**4 020**	**2 589**	**1 992**	**1 551**	**7 495**
Arizona	1 616	6 514	679	279	151	97	109	60	36	43	21	141
Arkansas	4 736	21 979	813	805	719	407	509	341	357	214	88	483
California	30 158	87 886	14 959	6 737	2 988	1 141	795	475	679	358	416	1 610
Colorado	5 686	19 267	2 487	1 199	717	266	331	211	114	89	34	238
Florida	5 643	29 401	2 668	1 361	504	296	147	91	121	55	66	334
Idaho	6 696	16 251	3 143	1 760	687	353	289	65	86	87	23	203
Kansas	5 966	22 501	1 816	1 153	791	608	522	369	175	76	134	322
Louisiana	2 250	6 101	845	619	273	228	106	46	24	22	23	64
Montana	3 331	6 407	1 860	724	421	147	39	80	39	5	2	14
Nebraska	17 271	72 376	4 154	2 929	2 953	2 604	1 133	1 100	290	229	264	1 615
Nevada	700	2 337	357	176	52	30	22	15	10	3	5	30
New Mexico	2 631	7 422	1 400	395	218	178	72	134	48	47	24	115
North Dakota	475	1 249	248	93	50	16	14	11	14	3	4	22
Oklahoma	1 836	4 826	941	331	201	99	54	71	36	9	15	79
Oregon	7 332	17 877	4 577	1 210	450	468	192	109	78	84	29	135
South Dakota	967	2 067	447	310	116	13	23	22	–	24	–	12
Texas	10 857	62 608	2 550	2 257	694	561	879	682	397	601	360	1 876
Utah	1 885	2 853	1 343	354	79	72	24	1	4	–	1	7
Washington	7 972	28 687	4 204	1 921	595	430	388	121	72	41	22	178
Wyoming	1 057	2 253	551	309	43	50	40	16	9	2	20	17
All other States	**17 911**	**49 468**	**10 012**	**3 657**	**1 539**	**992**	**575**	**413**	**141**	**116**	**85**	**381**
Water resources areas:												
WRA 01 New England	816	2 194	393	181	103	36	35	22	4	14	1	27
WRA 02 Mid-Atlantic	2 139	4 959	1 087	498	223	142	52	36	18	7	13	63
WRA 03 South Atlantic-Gulf	10 372	37 841	5 476	2 388	1 036	435	259	151	127	59	89	352
WRA 04 Great Lakes	2 958	7 120	1 555	702	258	219	103	40	37	1	11	32
WRA 05 Ohio	1 499	2 266	1 069	286	69	25	32	4	10	–	–	4
WRA 06 Tennessee	221	339	160	38	11	7	1	–	2	1	–	1
WRA 07 Upper Mississippi	2 936	6 350	1 907	382	146	198	79	85	47	5	21	66
WRA 08 Lower Mississippi	8 058	42 609	1 934	1 408	1 159	838	726	518	374	260	126	715
WRA 09 Souris-Red-Rainy	428	1 076	251	68	47	8	5	10	9	5	5	20
WRA 10 Missouri	27 263	100 134	8 456	5 646	4 147	3 060	1 469	1 554	421	335	340	1 835
WRA 11 Arkansas-White-Red	10 662	47 971	3 459	2 023	884	829	892	459	396	470	206	1 044
WRA 12 Texas-Gulf	8 097	43 266	1 739	1 887	765	391	580	614	220	318	298	1 285
WRA 13 Rio Grande	2 832	7 986	1 687	263	230	193	151	66	97	16	8	121
WRA 14 Upper Colorado	1 153	1 704	880	179	5	15	70	1	1	–	–	2
WRA 15 Lower Colorado	1 988	7 140	933	353	168	115	109	61	41	43	21	144
WRA 16 Great Basin	2 499	5 187	1 602	443	216	132	36	16	10	3	6	35
WRA 17 Pacific Northwest	22 197	62 682	12 062	5 030	1 711	1 234	855	299	237	203	75	491
WRA 18 California	30 858	89 506	15 404	6 804	3 063	1 179	809	497	679	368	416	1 639

See footnotes at end of table.

Table 10. **Irrigation Pumps on Farms by Type: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Well pumps[1]												
				Pumps by discharge capacity (GPM)									
												3,000 or more	
	Farms	Pumps	Average discharge capacity (GPM)	Less than 250	250 to 499	500 to 749	750 to 999	1,000 to 1,249	1,250 to 1,499	1,500 to 1,999	2,000 to 2,999	Pumps	Average GPM
Conterminous United States	**100 062**	**314 665**	**830**	**23 078**	**36 611**	**67 376**	**96 959**	**55 956**	**9 291**	**13 402**	**10 117**	**1 875**	**3 321**
17 Western States, Arkansas, Florida, and Louisiana	**90 319**	**293 653**	**818**	**21 741**	**35 247**	**64 635**	**88 653**	**52 309**	**8 742**	**11 947**	**8 924**	**1 455**	**3 399**
Arizona	1 520	5 276	1 105	166	346	1 114	1 491	625	297	795	360	82	5 662
Arkansas	4 231	17 026	1 230	-	218	2 002	1 706	7 912	876	2 740	1 151	421	3 052
California	25 119	58 260	850	4 518	9 172	8 511	16 857	10 412	2 597	3 203	2 498	492	3 201
Colorado	4 338	15 251	898	211	1 051	1 452	8 280	2 861	375	578	441	2	3 880
Florida	5 202	25 770	879	1 269	1 651	2 674	14 065	4 433	109	1 202	333	34	3 337
Idaho	2 849	6 156	1 230	277	335	374	466	3 112	166	479	797	150	3 275
Kansas	5 660	18 020	785	906	3 007	2 752	6 701	2 704	908	815	227	-	-
Louisiana	1 759	3 847	1 524	-	148	213	57	352	1 803	398	669	207	3 739
Montana	534	774	589	182	163	347	2	4	13	17	45	1	3 000
Nebraska	17 207	59 895	870	1 196	2 788	10 734	27 115	15 110	983	467	1 502	-	-
Nevada	580	1 939	1 244	49	93	125	175	1 074	72	111	216	24	3 242
New Mexico	2 393	6 652	753	714	969	1 464	2 331	602	94	235	228	15	3 103
North Dakota	271	808	710	18	124	67	547	52	-	-	-	-	-
Oklahoma	1 482	3 955	593	476	812	1 728	435	364	63	47	30	-	-
Oregon	3 040	7 992	539	822	935	5 257	365	257	50	237	68	1	3 100
South Dakota	619	1 135	681	29	192	425	348	98	34	9	-	-	-
Texas	9 447	53 816	516	8 935	12 181	23 673	6 993	1 262	175	378	217	2	4 000
Utah	765	1 240	902	119	122	154	185	478	85	66	15	16	4 186
Washington	2 934	4 930	538	1 671	852	1 386	207	484	40	156	127	7	3 600
Wyoming	369	911	664	183	88	183	327	113	2	14	-	1	3 500
All other States	**9 743**	**21 012**	**989**	**1 337**	**1 364**	**2 741**	**8 306**	**3 647**	**549**	**1 455**	**1 193**	**420**	**3 050**
Water resources areas:													
WRA 01 New England	174	282	629	48	75	11	148	-	-	-	-	-	-
WRA 02 Mid-Atlantic	1 065	2 106	657	151	421	603	799	125	1	-	3	3	4 000
WRA 03 South Atlantic-Gulf	7 219	28 970	872	1 831	1 755	2 833	15 518	5 207	206	1 249	337	34	3 337
WRA 04 Great Lakes	1 597	2 838	673	522	325	552	947	414	14	32	32	-	-
WRA 05 Ohio	422	675	811	22	74	120	319	108	9	22	1	-	-
WRA 06 Tennessee	49	52	893	-	5	-	45	2	-	-	-	-	-
WRA 07 Upper Mississippi	2 206	4 452	892	-	295	1 004	1 942	883	-	216	70	42	3 000
WRA 08 Lower Mississippi	7 172	25 850	1 318	32	410	2 381	3 482	8 898	3 040	3 967	2 667	973	3 199
WRA 09 Souris-Red-Rainy	331	838	768	-	75	119	576	59	-	7	2	-	-
WRA 10 Missouri	23 486	78 055	859	1 995	4 530	13 037	36 311	17 893	1 500	983	1 805	1	3 000
WRA 11 Arkansas-White-Red	9 459	39 563	672	3 844	8 281	10 345	10 300	4 107	991	1 130	535	30	3 000
WRA 12 Texas-Gulf	7 119	38 295	523	6 686	7 597	18 168	4 424	756	108	350	204	2	4 000
WRA 13 Rio Grande	2 279	5 971	906	236	828	955	2 105	977	98	375	380	17	3 194
WRA 14 Upper Colorado	285	313	795	32	12	6	213	45	2	2	-	1	3 500
WRA 15 Lower Colorado	1 822	5 803	1 070	294	422	1 149	1 597	777	312	806	364	82	5 662
WRA 16 Great Basin	1 327	3 101	1 119	136	189	298	367	1 510	157	177	227	40	3 619
WRA 17 Pacific Northwest	8 611	18 805	762	2 722	2 088	7 023	981	3 767	238	848	980	158	3 288
WRA 18 California	25 439	58 696	848	4 527	9 229	8 772	16 885	10 428	2 615	3 238	2 510	492	3 201

See footnotes at end of table.

Table 10. **Irrigation Pumps on Farms by Type: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Pumps to discharge water from tailwater pits												
				Pumps by discharge capacity (GPM)									
												3,000 or more	
	Farms	Pumps	Average discharge capacity (GPM)	Less than 250	250 to 499	500 to 749	750 to 999	1,000 to 1,249	1,250 to 1,499	1,500 to 1,999	2,000 to 2,999	Pumps	Average GPM
Conterminous United States	**16 327**	**38 212**	**728**	**5 745**	**8 546**	**14 735**	**3 744**	**3 173**	**704**	**471**	**638**	**456**	**11 374**
17 Western States, Arkansas, Florida, and Louisiana	**15 803**	**37 302**	**724**	**5 708**	**8 430**	**14 356**	**3 559**	**3 135**	**641**	**458**	**597**	**418**	**12 078**
Arizona	300	728	1 167	23	60	103	265	88	82	34	46	27	5 667
Arkansas	310	825	1 570	-	-	15	-	480	56	21	205	48	4 000
California	3 255	8 089	678	1 893	1 964	1 968	667	1 105	-	187	145	160	6 538
Colorado	786	1 719	509	286	346	726	308	48	2	3	-	-	-
Florida	249	655	5 284	161	5	225	42	49	30	-	13	130	24 277
Idaho	707	1 075	635	227	96	60	574	112	-	6	-	-	-
Kansas	1 721	3 456	537	468	872	1 406	311	331	-	68	-	-	-
Louisiana	42	182	1 532	-	-	-	154	-	-	20	-	8	12 000
Montana	451	804	581	251	-	301	154	22	74	-	-	2	6 000
Nebraska	4 184	10 189	548	1 382	2 749	4 628	486	625	256	-	63	-	-
Nevada	70	108	716	10	14	35	22	21	2	4	-	-	-
New Mexico	136	224	403	76	24	104	7	13	-	-	-	-	-
North Dakota	13	18	1 256	10	-	-	-	-	-	-	6	2	3 000
Oklahoma	98	173	623	29	32	71	2	19	-	20	-	-	-
Oregon	395	760	898	47	299	76	90	67	85	9	74	13	3 154
South Dakota	37	90	1 213	-	24	14	-	-	-	52	-	-	-
Texas	2 191	3 977	477	400	1 772	1 287	415	79	-	1	23	-	-
Utah	44	47	532	-	41	1	4	1	-	-	-	-	-
Washington	729	3 997	746	430	132	3 245	56	74	-	32	-	28	12 375
Wyoming	85	186	1 023	15	-	91	2	1	54	1	22	-	-
All other States	**524**	**910**	**898**	**37**	**116**	**379**	**185**	**38**	**63**	**13**	**41**	**38**	**3 632**
Water resources areas:													
WRA 01 New England	70	127	1 150	16	26	43	4	8	-	12	-	18	4 333
WRA 02 Mid-Atlantic	45	106	612	-	40	50	-	16	-	-	-	-	-
WRA 03 South Atlantic-Gulf	474	1 003	3 688	161	5	433	182	49	30	-	13	130	24 277
WRA 04 Great Lakes	41	154	1 008	-	-	40	40	11	63	-	-	-	-
WRA 05 Ohio	37	42	467	14	-	28	-	-	-	-	-	-	-
WRA 06 Tennessee	13	18	382	7	2	9	-	-	-	-	-	-	-
WRA 07 Upper Mississippi	50	50	462	-	48	1	1	-	-	-	-	-	-
WRA 08 Lower Mississippi	342	1 019	1 633	-	-	15	154	483	3	42	246	76	4 579
WRA 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-	-
WRA 10 Missouri	5 395	12 265	558	1 702	3 399	5 134	785	712	386	52	91	4	4 500
WRA 11 Arkansas-White-Red	2 793	5 467	528	717	1 612	2 107	487	400	53	91	-	-	-
WRA 12 Texas-Gulf	1 090	1 860	461	219	806	610	184	18	-	-	23	-	-
WRA 13 Rio Grande	114	551	481	50	2	489	1	8	-	1	-	-	-
WRA 14 Upper Colorado	60	237	939	-	-	8	228	-	-	1	-	-	-
WRA 15 Lower Colorado	313	741	1 157	23	60	116	265	88	82	34	46	27	5 667
WRA 16 Great Basin	101	142	669	10	55	23	26	22	2	4	-	-	-
WRA 17 Pacific Northwest	1 960	6 037	705	933	433	3 634	702	188	-	38	69	40	9 563
WRA 18 California	3 429	8 393	687	1 893	2 058	1 995	685	1 170	85	196	150	161	6 529

See footnotes at end of table.

Table 10. **Irrigation Pumps on Farms by Type: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Pumps to discharge water from ponds, lakes, reservoirs, and rivers													Booster or relift pumps	
				Pumps by discharge capacity (GPM)								3,000 or more			
	Farms	Pumps	Average discharge capacity (GPM)	Less than 250	250 to 499	500 to 749	750 to 999	1,000 to 1,249	1,250 to 1,499	1,500 to 1,999	2,000 to 2,999	Pumps	Average GPM	Farms	Number
Conterminous United States	**33 009**	**60 953**	**1 506**	**7 529**	**9 409**	**17 046**	**8 000**	**7 294**	**1 899**	**2 876**	**2 883**	**4 017**	**12 216**	**19 304**	**56 500**
17 Western States, Arkansas, Florida, and Louisiana	**23 822**	**43 758**	**1 382**	**6 316**	**7 406**	**8 186**	**5 751**	**6 018**	**1 823**	**2 373**	**2 173**	**3 712**	**7 952**	**18 510**	**46 149**
Arizona	79	119	857	36	17	27	4	29	–	–	–	6	7 200	164	391
Arkansas	1 221	2 330	2 591	–	86	46	404	375	46	625	442	306	10 618	901	1 798
California	4 389	8 903	1 361	2 308	435	709	306	2 661	163	896	405	1 020	5 568	5 371	12 634
Colorado	788	1 004	614	359	272	180	97	52	–	1	4	39	5 513	934	1 293
Florida	758	1 612	5 134	156	130	241	291	198	75	72	40	409	17 839	305	1 364
Idaho	2 388	4 697	1 068	590	418	637	2 322	220	–	190	41	279	5 659	2 057	4 323
Kansas	454	617	1 116	34	71	252	44	52	66	–	34	64	4 000	182	408
Louisiana	632	1 323	2 869	165	22	–	48	15	708	31	73	261	9 931	355	749
Montana	1 717	3 003	1 497	425	129	649	746	230	29	40	366	389	5 513	886	1 826
Nebraska	1 530	1 674	610	213	361	642	93	354	–	–	9	2	3 000	298	618
Nevada	46	99	1 191	21	8	6	4	46	3	1	6	4	8 000	144	191
New Mexico	157	240	615	98	27	29	52	18	3	–	–	13	3 046	217	306
North Dakota	204	371	1 843	24	34	59	29	83	10	–	62	70	5 214	35	52
Oklahoma	430	617	1 090	24	54	220	107	79	5	82	14	32	5 750	40	81
Oregon	3 406	6 215	670	800	1 222	3 044	304	332	120	163	79	151	4 856	1 583	2 910
South Dakota	304	574	1 842	–	58	43	174	119	61	3	–	116	5 638	153	268
Texas	2 039	3 270	1 905	245	431	323	263	735	329	224	342	378	8 536	833	1 545
Utah	601	831	954	89	82	385	9	68	54	–	135	9	9 722	553	735
Washington	2 269	5 631	684	654	3 505	537	241	316	101	40	110	127	7 916	3 197	14 129
Wyoming	410	628	936	75	44	157	213	36	50	5	11	37	3 492	302	528
All other States	**9 187**	**17 195**	**1 820**	**1 213**	**2 003**	**8 860**	**2 249**	**1 276**	**76**	**503**	**710**	**305**	**64 111**	**794**	**10 351**
Water resources areas:															
WRA 01 New England	626	1 449	924	254	158	698	118	126	4	20	41	30	16 147	125	336
WRA 02 Mid-Atlantic	1 256	2 634	692	76	428	1 610	290	63	16	95	–	56	3 629	66	113
WRA 03 South Atlantic-Gulf	3 659	6 332	1 809	361	551	3 249	719	742	111	95	85	419	17 566	474	1 536
WRA 04 Great Lakes	1 752	4 073	5 154	287	386	1 689	1 073	330	–	166	52	90	202 420	32	55
WRA 05 Ohio	1 130	1 491	589	220	249	837	54	77	13	23	5	13	4 969	54	58
WRA 06 Tennessee	171	265	544	64	22	145	13	4	7	2	7	1	3 200	4	4
WRA 07 Upper Mississippi	793	1 693	1 153	107	325	562	73	112	–	–	448	66	6 000	119	155
WRA 08 Lower Mississippi	1 837	3 792	2 663	165	75	65	365	402	754	807	612	547	10 481	1 433	11 948
WRA 09 Souris-Red-Rainy	110	188	1 191	24	22	35	10	39	–	16	15	27	3 133	35	50
WRA 10 Missouri	4 168	6 039	1 226	621	791	1 661	1 019	806	143	38	347	613	5 370	1 928	3 775
WRA 11 Arkansas-White-Red	1 465	2 078	1 054	174	163	578	439	262	197	89	48	128	4 563	487	863
WRA 12 Texas-Gulf	1 483	2 187	2 191	194	392	220	167	403	203	158	78	372	8 609	594	924
WRA 13 Rio Grande	347	695	1 552	33	15	26	48	220	3	67	264	19	3 347	415	769
WRA 14 Upper Colorado	488	640	1 022	206	64	199	63	1	–	–	59	48	6 390	433	514
WRA 15 Lower Colorado	123	166	721	61	17	33	20	29	–	–	–	6	7 200	199	430
WRA 16 Great Basin	738	1 107	862	49	157	407	235	114	57	1	82	5	7 000	571	837
WRA 17 Pacific Northwest	8 327	16 914	769	2 325	5 159	4 233	2 925	841	224	399	308	500	6 009	6 738	20 926
WRA 18 California	4 536	9 210	1 375	2 308	435	799	369	2 723	167	900	432	1 077	5 564	5 597	13 207

[1]Data include only well pumps for wells used in 1984.

Table 11. Energy Expenses for On-Farm Pumping of Irrigation Water by Type of Energy: 1984

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Total energy expenses for pumping											
						Farms with expenses of—						
	Farms	Pumps powered	Acres irrigated	Expenses (dollars)	Per acre irrigated (dollars)	$1 to $999	$1,000 to $1,999	$2,000 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 to $29,999	$30,000 or more
Conterminous United States	**135 319**	**426 814**	**31 067 689**	**1 002 547 541**	**32**	**43 040**	**21 412**	**30 282**	**18 014**	**11 877**	**4 405**	**6 289**
17 Western States, Arkansas, Florida, and Louisiana	**117 836**	**382 376**	**28 471 491**	**953 374 124**	**33**	**35 923**	**16 801**	**26 976**	**16 614**	**11 131**	**4 216**	**6 175**
Arizona	1 611	5 813	578 302	61 969 075	107	261	171	316	229	137	95	402
Arkansas	4 736	19 409	1 845 881	39 387 149	21	563	530	1 057	1 171	837	493	85
California	29 966	82 040	4 751 117	228 720 669	48	11 257	4 217	6 413	3 737	2 073	822	1 447
Colorado	5 631	17 842	1 572 532	56 172 510	36	1 488	565	1 601	593	580	366	438
Florida	5 641	28 924	1 333 188	29 953 023	22	2 876	1 094	803	433	192	101	142
Idaho	6 473	15 177	1 716 175	46 186 216	27	2 317	958	1 321	774	535	201	367
Kansas	5 966	20 134	2 263 244	49 700 788	22	600	974	1 817	1 178	821	168	408
Louisiana	2 250	5 595	520 211	11 748 734	23	437	285	693	478	286	45	26
Montana	3 232	6 042	524 962	6 802 506	13	1 587	733	574	245	76	7	10
Nebraska	17 271	67 160	5 297 147	129 537 059	24	1 225	2 658	5 688	4 211	2 219	728	542
Nevada	703	2 277	197 467	8 906 504	45	141	49	198	117	108	29	61
New Mexico	2 631	7 135	489 552	23 344 297	48	773	172	870	246	219	181	170
North Dakota	475	1 175	114 033	2 089 978	18	125	60	146	87	44	9	4
Oklahoma	1 836	4 640	407 332	11 915 981	29	495	184	491	327	210	47	82
Oregon	7 078	16 627	827 968	17 476 497	21	4 294	1 168	872	430	220	28	66
South Dakota	958	1 936	205 140	4 197 664	20	143	231	383	116	54	14	17
Texas	10 717	58 972	4 464 089	189 172 532	42	1 305	1 078	2 051	1 614	2 117	798	1 754
Utah	1 816	2 758	236 481	6 255 721	26	758	412	386	120	103	13	24
Washington	7 788	16 508	931 879	25 519 619	27	5 026	945	1 011	397	218	66	125
Wyoming	1 057	2 212	194 791	4 317 602	22	252	317	285	111	82	5	5
All other States	**17 483**	**44 438**	**2 596 198**	**49 173 417**	**19**	**7 117**	**4 611**	**3 306**	**1 400**	**746**	**189**	**114**
Water resources areas:												
WRA 01 New England	789	2 010	22 988	1 249 620	54	452	199	96	23	9	7	3
WRA 02 Mid-Atlantic	2 097	4 253	175 259	3 506 262	20	1 089	471	373	146	14	2	2
WRA 03 South Atlantic-Gulf	10 142	36 435	1 815 951	39 486 472	22	4 886	2 397	1 630	603	333	111	182
WRA 04 Great Lakes	2 928	5 849	437 010	10 790 853	25	1 156	771	497	309	133	39	23
WRA 05 Ohio	1 415	1 949	74 794	1 653 726	22	879	325	140	60	8	-	3
WRA 06 Tennessee	204	290	4 111	125 949	31	155	37	9	1	2	-	-
WRA 07 Upper Mississippi	2 936	6 147	569 361	10 841 650	19	587	1 038	745	308	178	58	22
WRA 08 Lower Mississippi	8 058	38 297	2 900 523	57 612 887	20	1 217	896	2 075	1 913	1 254	576	127
WRA 09 Souris-Red-Rainy	428	1 019	108 436	1 712 973	16	108	111	119	35	41	12	2
WRA 10 Missouri	27 181	93 480	7 629 755	197 015 580	26	3 721	4 632	8 307	5 543	2 997	963	1 018
WRA 11 Arkansas-White-Red	10 661	44 075	4 444 291	134 190 769	30	1 519	1 260	2 931	1 862	1 490	428	1 171
WRA 12 Texas-Gulf	8 097	41 021	2 757 498	123 649 084	45	1 228	676	1 499	1 157	1 666	751	1 120
WRA 13 Rio Grande	2 692	7 195	651 278	21 513 861	33	790	311	790	148	336	200	117
WRA 14 Upper Colorado	1 099	1 574	120 136	2 566 824	21	525	169	319	49	24	1	12
WRA 15 Lower Colorado	1 958	6 406	604 850	63 511 857	105	346	189	516	235	167	98	407
WRA 16 Great Basin	2 458	5 052	453 273	15 322 393	34	794	364	644	332	210	41	73
WRA 17 Pacific Northwest	21 528	48 188	3 395 289	88 182 773	26	11 859	3 252	3 097	1 532	934	296	558
WRA 18 California	30 648	83 574	4 902 886	229 614 008	47	11 729	4 314	6 495	3 758	2 081	822	1 449

Table 11. **Energy Expenses for On-Farm Pumping of Irrigation Water by Type of Energy: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Electricity											
						Farms with expenses of—						
	Farms	Pumps powered	Acres irrigated	Expenses (dollars)	Expenses per acre irrigated (dollars)	$1 to $499	$500 to $999	$1,000 to $1,999	$2,000 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 or more
Conterminous United States	**96 324**	**281 317**	**18 106 589**	**639 891 812**	**35**	**22 229**	**13 075**	**15 165**	**20 300**	**12 223**	**6 708**	**6 621**
17 Western States, Arkansas, Florida, and Louisiana	**89 189**	**258 967**	**16 986 215**	**617 404 552**	**36**	**20 407**	**12 224**	**13 292**	**18 802**	**11 565**	**6 408**	**6 486**
Arizona	1 320	4 721	474 502	49 307 976	104	176	76	178	157	218	94	421
Arkansas	3 360	11 366	951 228	22 061 248	23	215	201	436	900	1 009	389	210
California	28 180	76 342	4 245 221	211 674 045	50	7 498	3 732	4 073	5 160	3 586	1 921	2 210
Colorado	4 371	15 205	1 279 053	46 227 825	36	686	526	498	910	544	535	672
Florida	3 738	13 229	522 361	13 762 325	26	1 183	1 020	657	430	217	151	77
Idaho	5 598	13 646	1 621 366	44 544 066	27	1 072	599	882	1 247	712	518	568
Kansas	2 284	6 312	478 783	13 300 174	28	222	272	298	805	322	219	146
Louisiana	693	1 213	106 482	1 928 238	18	259	23	191	139	29	19	33
Montana	2 747	5 201	454 378	6 051 880	13	813	462	626	555	199	75	17
Nebraska	9 373	32 672	2 205 645	55 422 610	25	277	1 283	1 588	3 062	1 999	699	465
Nevada	561	2 037	171 000	7 247 231	42	85	48	32	106	115	94	81
New Mexico	1 721	4 492	268 706	13 856 729	52	532	175	135	321	194	152	212
North Dakota	309	827	95 470	1 870 368	20	18	7	24	130	73	44	13
Oklahoma	653	1 878	118 369	3 468 144	29	162	113	78	114	68	78	40
Oregon	6 769	16 063	803 804	16 930 656	21	2 744	1 306	1 129	862	415	220	93
South Dakota	709	1 483	173 178	3 685 393	21	35	19	147	309	129	44	26
Texas	6 918	31 957	1 749 506	71 973 029	41	764	231	1 028	2 023	1 121	777	974
Utah	1 382	2 263	186 549	5 559 727	30	399	251	179	308	116	92	37
Washington	7 612	16 205	916 697	25 100 537	27	3 099	1 817	913	988	397	215	183
Wyoming	891	1 855	163 917	3 432 351	21	168	63	200	276	102	72	10
All other States	**7 135**	**22 350**	**1 120 374**	**22 487 260**	**20**	**1 822**	**851**	**1 873**	**1 498**	**658**	**300**	**133**
Water resources areas:												
WRA 01 New England	279	670	5 612	528 150	94	111	38	71	32	14	11	2
WRA 02 Mid-Atlantic	496	992	41 735	1 040 120	25	138	58	76	195	26	2	1
WRA 03 South Atlantic-Gulf	5 134	15 335	658 340	16 482 432	25	1 717	1 137	972	769	278	162	96
WRA 04 Great Lakes	1 522	2 921	245 612	6 622 907	27	452	172	354	246	166	93	39
WRA 05 Ohio	353	625	35 830	781 331	22	72	34	125	81	35	4	2
WRA 06 Tennessee	67	102	1 495	54 474	36	45	–	14	7	1	–	–
WRA 07 Upper Mississippi	1 932	3 812	392 425	6 498 306	17	274	140	697	477	236	76	32
WRA 08 Lower Mississippi	4 631	22 843	1 246 185	27 087 987	22	540	300	805	1 090	1 145	478	273
WRA 09 Souris-Red-Rainy	297	703	84 849	1 399 140	16	45	26	67	89	17	39	14
WRA 10 Missouri	16 762	52 886	3 954 402	108 854 702	28	1 206	2 364	2 786	5 013	2 977	1 327	1 089
WRA 11 Arkansas-White-Red	4 201	17 706	1 118 845	35 739 216	32	574	325	614	1 066	821	458	343
WRA 12 Texas-Gulf	5 737	23 489	1 285 897	55 763 220	43	745	292	656	1 780	764	625	875
WRA 13 Rio Grande	1 795	5 046	423 490	15 502 972	37	483	120	251	333	99	258	251
WRA 14 Upper Colorado	751	1 131	85 233	1 836 919	22	296	190	68	129	32	23	13
WRA 15 Lower Colorado	1 510	5 151	496 824	50 496 330	102	220	101	196	216	224	124	429
WRA 16 Great Basin	1 933	4 306	370 504	13 012 167	35	363	270	139	577	294	185	105
WRA 17 Pacific Northwest	20 080	45 816	3 266 218	85 728 123	26	7 204	3 541	3 122	2 957	1 497	914	845
WRA 18 California	28 844	77 783	4 393 093	212 463 316	48	7 744	3 967	4 152	5 243	3 597	1 929	2 212

Table 11. **Energy Expenses for On-Farm Pumping of Irrigation Water by Type of Energy: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Natural gas												
						Farms with expenses of—							
	Farms	Pumps powered	Acres irrigated	Expenses (dollars)	Expenses per acre irrigated (dollars)	$1 to $499	$500 to $999	$1,000 to $1,999	$2,000 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 or more
Conterminous United States	**15 519**	**51 799**	**5 800 547**	**195 473 772**	**34**	**281**	**847**	**2 650**	**3 879**	**2 737**	**2 632**	**2 493**
17 Western States, Arkansas, Florida, and Louisiana	**15 483**	**51 741**	**5 797 089**	**195 412 534**	**34**	**276**	**834**	**2 644**	**3 874**	**2 730**	**2 632**	**2 493**
Arizona	211	665	77 467	11 700 723	151	-	5	-	22	16	37	131
Arkansas	397	748	94 833	1 704 377	18	-	37	174	86	76	22	2
California	185	715	76 007	5 711 766	75	18	-	-	37	5	85	40
Colorado	405	1 094	193 755	7 473 158	39	12	-	22	103	67	49	152
Florida	64	183	7 335	347 228	47	-	-	23	-	37	2	2
Idaho	28	28	8 400	84 000	10	-	-	-	28	-	-	-
Kansas	2 819	9 261	1 392 685	26 374 847	19	103	85	299	928	629	454	321
Louisiana	673	1 251	122 077	3 476 957	28	-	25	103	277	159	105	4
Montana	61	79	23 624	149 674	6	28	-	-	18	14	1	-
Nebraska	3 852	10 252	1 002 163	19 532 848	19	-	329	1 637	723	523	485	155
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	678	1 796	185 228	7 805 678	42	51	62	71	162	110	117	105
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	693	1 763	227 361	6 280 882	28	11	67	73	149	209	100	84
Oregon	9	44	4 180	104 360	25	-	-	-	8	-	-	1
South Dakota	29	29	580	34 800	60	-	-	29	-	-	-	-
Texas	5 257	23 614	2 353 833	103 770 902	44	53	172	175	1 324	885	1 153	1 495
Utah	90	123	17 771	193 390	11	-	40	38	1	-	11	-
Washington	11	44	1 870	125 268	67	-	-	-	-	-	11	-
Wyoming	21	52	7 920	541 676	68	-	12	-	8	-	-	1
All other States	**36**	**58**	**3 458**	**61 238**	**18**	**5**	**13**	**6**	**5**	**7**	**-**	**-**
Water resources areas:												
WRA 01 New England	9	24	174	15 200	87	-	-	4	5	-	-	-
WRA 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-
WRA 03 South Atlantic-Gulf	64	183	7 335	347 228	47	-	-	23	-	37	2	2
WRA 04 Great Lakes	15	22	2 513	39 340	16	-	8	-	-	7	-	-
WRA 05 Ohio	6	6	496	3 908	8	4	-	2	-	-	-	-
WRA 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
WRA 07 Upper Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
WRA 08 Lower Mississippi	1 033	1 829	191 980	4 718 630	25	1	62	277	363	215	110	5
WRA 09 Souris-Red-Rainy	5	5	175	2 600	15	-	5	-	-	-	-	-
WRA 10 Missouri	4 798	12 355	1 277 428	27 871 547	22	76	385	1 732	1 024	742	579	260
WRA 11 Arkansas-White-Red	4 878	19 304	2 747 015	82 249 642	30	130	108	330	1 446	1 008	749	1 107
WRA 12 Texas-Gulf	3 629	15 350	1 288 352	58 265 456	45	6	175	190	747	657	950	904
WRA 13 Rio Grande	527	1 081	98 433	3 989 294	41	46	53	54	183	50	98	43
WRA 14 Upper Colorado	15	15	891	47 820	54	-	-	-	15	-	-	-
WRA 15 Lower Colorado	217	671	77 527	11 704 323	151	-	11	-	22	16	37	131
WRA 16 Great Basin	90	123	17 771	193 390	11	-	40	38	1	-	11	-
WRA 17 Pacific Northwest	48	116	14 450	313 628	22	-	-	-	36	-	11	1
WRA 18 California	185	715	76 007	5 711 766	75	18	-	-	37	5	85	40

Table 11. **Energy Expenses for On-Farm Pumping of Irrigation Water by Type of Energy: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	LP gas, propane, and butane											
						Farms with expenses of—						
	Farms	Pumps powered	Acres irrigated	Expenses (dollars)	Expenses per acre irrigated (dollars)	$1 to $499	$500 to $999	$1,000 to $1,999	$2,000 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 or more
Conterminous United States	**12 668**	**25 499**	**1 804 629**	**38 912 159**	**22**	**1 272**	**1 763**	**3 173**	**4 464**	**1 434**	**524**	**38**
17 Western States, Arkansas, Florida, and Louisiana	**10 966**	**21 537**	**1 532 637**	**33 926 949**	**22**	**1 085**	**1 566**	**2 779**	**3 822**	**1 222**	**457**	**35**
Arizona	73	117	7 026	214 792	31	12	6	8	31	16	-	-
Arkansas	1 259	2 335	188 597	4 779 624	25	-	90	275	608	210	74	2
California	239	631	54 434	1 178 079	22	16	-	65	124	27	5	2
Colorado	263	435	37 026	830 233	22	-	51	-	156	43	13	-
Florida	407	1 075	35 715	1 052 252	29	104	104	91	38	59	7	4
Idaho	128	188	22 500	412 286	18	-	-	58	68	2	-	-
Kansas	1 413	2 115	139 278	3 563 012	26	222	188	536	297	101	68	1
Louisiana	328	509	43 569	1 718 450	39	22	42	56	114	11	71	12
Montana	41	69	4 245	100 784	24	-	1	26	-	14	-	-
Nebraska	5 455	11 360	802 578	15 615 934	19	443	828	1 355	2 223	529	68	9
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	175	323	12 643	411 698	33	43	17	47	34	31	-	3
North Dakota	27	27	1 244	20 565	17	15	-	12	-	-	-	-
Oklahoma	343	518	33 259	876 665	26	47	74	56	98	62	6	-
Oregon	12	57	2 245	76 584	34	-	-	-	3	9	-	-
South Dakota	20	24	1 400	24 700	18	-	18	1	-	-	1	-
Texas	708	1 650	139 803	2 950 567	21	130	128	181	16	108	143	2
Utah	19	19	2 660	17 100	6	-	19	-	-	-	-	-
Washington	10	30	1 150	40 350	35	-	-	-	10	-	-	-
Wyoming	46	55	3 265	43 274	13	31	-	12	2	-	1	-
All other States	**1 702**	**3 962**	**271 992**	**4 985 210**	**18**	**187**	**197**	**394**	**642**	**212**	**67**	**3**
Water resources areas:												
WRA 01 New England	147	435	6 203	318 982	51	38	27	34	37	8	2	1
WRA 02 Mid-Atlantic	103	209	11 538	215 560	19	8	22	17	56	-	-	-
WRA 03 South Atlantic-Gulf	607	1 474	51 882	1 656 736	32	130	131	120	125	90	7	4
WRA 04 Great Lakes	163	226	15 785	218 309	14	36	32	57	37	-	-	1
WRA 05 Ohio	64	87	4 925	120 990	25	24	3	7	26	4	-	-
WRA 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
WRA 07 Upper Mississippi	283	381	39 800	886 901	22	1	-	153	92	37	-	-
WRA 08 Lower Mississippi	1 911	4 370	368 491	7 869 499	21	23	190	316	863	353	151	15
WRA 09 Souris-Red-Rainy	5	5	500	10 000	20	-	-	-	5	-	-	-
WRA 10 Missouri	6 351	12 405	850 027	17 061 621	20	614	999	1 660	2 442	544	83	9
WRA 11 Arkansas-White-Red	1 926	3 459	234 565	6 380 194	27	288	189	527	507	234	180	1
WRA 12 Texas-Gulf	419	968	58 807	1 732 171	29	39	128	68	22	65	96	1
WRA 13 Rio Grande	197	427	72 001	498 005	7	33	17	83	15	45	-	4
WRA 14 Upper Colorado	11	11	90	4 000	44	10	-	-	1	-	-	-
WRA 15 Lower Colorado	73	117	7 026	214 792	31	12	6	8	31	16	-	-
WRA 16 Great Basin	19	19	2 660	17 100	6	-	19	-	-	-	-	-
WRA 17 Pacific Northwest	140	224	24 070	462 188	19	-	-	58	80	2	-	-
WRA 18 California	249	682	56 259	1 245 111	22	16	-	65	125	36	5	2

Table 11. **Energy Expenses for On-Farm Pumping of Irrigation Water by Type of Energy: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Diesel fuel												
						Farms with expenses of—							
	Farms	Pumps powered	Acres irrigated	Expenses (dollars)	Expenses per acre irrigated (dollars)	$1 to $499	$500 to $999	$1,000 to $1,999	$2,000 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 or more
Conterminous United States	**30 339**	**59 723**	**5 193 599**	**124 519 052**	**24**	**4 657**	**3 902**	**6 303**	**9 812**	**3 205**	**1 471**	**989**
17 Western States, Arkansas, Florida, and Louisiana	**21 744**	**46 299**	**4 075 210**	**105 188 538**	**26**	**2 117**	**2 943**	**3 704**	**8 343**	**2 466**	**1 255**	**916**
Arizona	187	280	18 475	724 140	39	9	-	23	147	5	1	2
Arkansas	2 237	4 907	611 170	10 840 045	18	162	250	532	470	453	308	62
California	1 958	3 526	364 078	9 663 139	27	140	35	88	1 423	139	79	54
Colorado	868	878	58 581	1 580 615	27	82	99	88	594	1	3	1
Florida	2 046	13 937	754 297	14 525 560	19	154	691	384	410	189	93	125
Idaho	751	769	60 759	1 112 714	18	59	480	92	102	1	17	-
Kansas	1 286	2 175	244 498	6 339 656	26	122	108	420	299	127	185	25
Louisiana	1 237	2 586	246 643	4 622 389	19	143	61	207	531	202	60	33
Montana	502	592	35 510	448 160	13	218	170	77	36	1	-	-
Nebraska	7 198	12 131	1 262 408	38 708 059	31	485	542	1 251	3 058	1 003	397	462
Nevada	156	231	25 828	1 654 079	64	-	8	19	97	8	18	6
New Mexico	479	508	22 720	1 265 817	56	33	-	-	425	1	19	1
North Dakota	135	279	16 167	180 095	11	41	42	16	31	5	-	-
Oklahoma	405	447	28 292	1 281 620	45	44	17	31	270	34	9	-
Oregon	357	374	16 539	332 265	20	54	236	57	1	9	-	-
South Dakota	271	371	29 692	444 071	15	67	33	55	110	3	3	-
Texas	1 042	1 638	220 834	10 470 689	47	273	3	47	250	262	62	145
Utah	292	305	28 975	479 254	17	1	-	217	72	2	-	-
Washington	173	181	11 952	251 014	21	7	145	-	13	8	-	-
Wyoming	164	184	17 792	265 157	15	23	23	100	4	13	1	-
All other States	**8 595**	**13 424**	**1 118 389**	**19 330 514**	**17**	**2 540**	**959**	**2 599**	**1 469**	**739**	**216**	**73**
Water resources areas:												
WRA 01 New England	190	278	6 392	183 003	29	75	33	67	13	-	2	-
WRA 02 Mid-Atlantic	831	1 668	90 185	1 456 159	16	239	151	247	109	77	6	2
WRA 03 South Atlantic-Gulf	4 862	17 788	1 072 794	20 526 848	19	1 230	748	1 365	891	302	174	152
WRA 04 Great Lakes	1 268	1 945	159 174	3 507 777	22	231	106	475	281	145	11	19
WRA 05 Ohio	865	966	31 141	671 081	22	541	58	210	42	8	4	2
WRA 06 Tennessee	88	103	1 828	55 304	30	55	7	20	5	1	-	-
WRA 07 Upper Mississippi	1 055	1 568	122 097	2 854 649	23	48	230	308	254	181	32	2
WRA 08 Lower Mississippi	4 059	9 135	1 091 072	17 926 200	16	326	379	898	1 191	782	369	114
WRA 09 Souris-Red-Rainy	144	297	22 732	292 233	13	22	34	36	38	14	-	-
WRA 10 Missouri	9 359	14 783	1 513 656	42 795 748	28	1 005	1 006	1 728	3 573	1 143	442	462
WRA 11 Arkansas-White-Red	2 038	3 354	341 032	9 770 499	29	314	119	362	766	194	243	40
WRA 12 Texas-Gulf	768	1 101	124 329	7 880 892	63	182	-	-	249	160	48	129
WRA 13 Rio Grande	452	577	55 179	1 504 815	27	66	52	-	293	12	24	5
WRA 14 Upper Colorado	327	335	32 988	671 315	20	14	-	114	184	14	1	-
WRA 15 Lower Colorado	344	437	22 641	1 074 968	47	25	-	23	288	5	1	2
WRA 16 Great Basin	484	572	61 423	2 088 792	34	-	111	211	128	10	18	6
WRA 17 Pacific Northwest	1 209	1 252	79 234	1 560 286	20	126	832	132	84	18	17	-
WRA 18 California	1 996	3 564	365 702	9 698 483	27	158	36	107	1 423	139	79	54

Table 11. **Energy Expenses for On-Farm Pumping of Irrigation Water by Type of Energy: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Gasoline and gasohol												
						Farms with expenses of—							
	Farms	Pumps powered	Acres irrigated	Expenses (dollars)	Expenses per acre irrigated (dollars)	$1 to $499	$500 to $999	$1,000 to $1,999	$2,000 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 or more
Conterminous United States	**6 057**	**8 476**	**162 325**	**3 750 746**	**23**	**4 035**	**918**	**758**	**274**	**37**	**34**	**1**
17 Western States, Arkansas, Florida, and Louisiana	**3 043**	**3 832**	**80 340**	**1 441 551**	**18**	**2 148**	**378**	**409**	**96**	**5**	**6**	**1**
Arizona	30	30	832	21 444	26	12	12	6	–	–	–	–
Arkansas	53	53	53	1 855	35	53	–	–	–	–	–	–
California	616	826	11 377	493 640	43	177	164	196	79	–	–	–
Colorado	230	230	4 117	60 679	15	230	–	–	–	–	–	–
Florida	359	500	13 480	265 658	20	300	7	25	15	5	6	1
Idaho	198	546	3 150	33 150	11	168	30	–	–	–	–	–
Kansas	227	271	8 000	123 099	15	128	36	63	–	–	–	–
Louisiana	36	36	1 440	2 700	2	36	–	–	–	–	–	–
Montana	101	101	7 205	52 008	7	26	75	–	–	–	–	–
Nebraska	744	745	24 353	257 608	11	651	1	92	–	–	–	–
Nevada	6	9	639	5 194	8	5	–	–	1	–	–	–
New Mexico	16	16	255	4 375	17	15	–	–	1	–	–	–
North Dakota	32	42	1 152	18 950	16	16	–	16	–	–	–	–
Oklahoma	34	34	51	8 670	170	34	–	–	–	–	–	–
Oregon	57	89	1 200	32 632	27	4	53	–	–	–	–	–
South Dakota	29	29	290	8 700	30	29	–	–	–	–	–	–
Texas	113	113	113	7 345	65	113	–	–	–	–	–	–
Utah	48	48	526	6 250	12	48	–	–	–	–	–	–
Washington	48	48	210	2 450	12	48	–	–	–	–	–	–
Wyoming	66	66	1 897	35 144	19	55	–	11	–	–	–	–
All other States	**3 014**	**4 644**	**81 985**	**2 309 195**	**28**	**1 887**	**540**	**349**	**178**	**32**	**28**	**–**
Water resources areas:												
WRA 01 New England	379	603	4 607	204 285	44	264	53	33	29	–	–	–
WRA 02 Mid-Atlantic	990	1 384	31 801	794 423	25	517	213	166	78	16	–	–
WRA 03 South Atlantic-Gulf	907	1 655	25 600	473 228	18	754	31	94	15	6	6	1
WRA 04 Great Lakes	563	735	13 926	402 520	29	293	174	53	28	15	–	–
WRA 05 Ohio	232	265	2 402	76 416	32	202	2	24	4	–	–	–
WRA 06 Tennessee	64	85	788	16 171	21	56	4	3	1	–	–	–
WRA 07 Upper Mississippi	208	386	15 039	601 794	40	72	69	1	38	–	28	–
WRA 08 Lower Mississippi	119	120	2 795	10 571	4	118	1	–	–	–	–	–
WRA 09 Souris-Red-Rainy	9	9	180	9 000	50	–	–	9	–	–	–	–
WRA 10 Missouri	1 040	1 051	34 242	431 962	13	830	37	173	–	–	–	–
WRA 11 Arkansas-White-Red	208	252	2 834	51 218	18	208	–	–	–	–	–	–
WRA 12 Texas-Gulf	113	113	113	7 345	65	113	–	–	–	–	–	–
WRA 13 Rio Grande	64	64	2 175	18 775	9	63	–	–	1	–	–	–
WRA 14 Upper Colorado	82	82	934	6 770	7	82	–	–	–	–	–	–
WRA 15 Lower Colorado	30	30	832	21 444	26	12	12	6	–	–	–	–
WRA 16 Great Basin	29	32	915	10 944	12	28	–	–	1	–	–	–
WRA 17 Pacific Northwest	400	780	11 317	118 548	10	242	158	–	–	–	–	–
WRA 18 California	620	830	11 825	495 332	42	181	164	196	79	–	–	–

Table 12. **Investment in Irrigation Equipment, Facilities, and Land Improvement: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Irrigation investment											
				Farms with investment of—								
	Farms	Investment (dollars)	Average per farm (dollars)	$1 to $999	$1,000 to $4,999	$5,000 to $9,999	$10,000 to $14,999	$15,000 to $19,999	$20,000 to $29,999	$30,000 to $39,999	$40,000 or more
Conterminous United States	**71 382**	**585 147 054**	**8 197**	**32 229**	**21 014**	**7 121**	**3 214**	**1 705**	**1 979**	**1 241**	**2 879**
17 Western States, Arkansas, Florida, and Louisiana	**64 332**	**514 130 448**	**7 992**	**29 514**	**18 845**	**6 422**	**2 941**	**1 512**	**1 720**	**1 063**	**2 315**
Arizona	1 218	22 661 829	18 606	364	381	141	79	49	61	23	120
Arkansas	2 012	22 100 000	10 984	368	557	579	148	173	90	17	80
California	13 985	150 248 675	10 744	6 498	3 964	1 438	662	439	362	145	477
Colorado	3 912	24 461 316	6 253	1 959	1 065	216	299	12	155	100	106
Florida	2 469	37 266 856	15 094	1 330	453	156	129	96	110	38	157
Idaho	5 561	42 697 179	7 678	2 789	1 467	620	220	126	97	88	154
Kansas	2 013	18 950 498	9 414	592	576	292	152	110	118	54	119
Louisiana	564	11 461 617	20 322	148	91	129	21	88	34	1	52
Montana	2 437	12 059 705	4 949	1 234	741	220	77	25	52	23	65
Nebraska	6 562	37 932 365	5 781	2 712	2 643	380	342	6	159	5	315
Nevada	638	4 861 175	7 619	230	216	94	29	14	19	12	24
New Mexico	1 682	10 472 636	6 226	827	488	133	62	9	87	26	50
North Dakota	172	2 100 753	12 214	62	48	24	9	3	3	7	16
Oklahoma	798	2 682 858	3 362	423	234	99	11	4	11	11	5
Oregon	3 818	15 107 267	3 957	2 385	912	246	78	31	30	41	95
South Dakota	394	3 223 188	8 181	112	116	95	18	27	1	-	25
Texas	5 806	60 012 588	10 336	1 263	2 329	772	316	159	219	416	332
Utah	2 840	7 301 574	2 571	1 890	549	240	85	24	5	20	27
Washington	6 242	23 823 610	3 817	3 818	1 522	478	140	79	94	31	80
Wyoming	1 209	4 704 759	3 891	510	493	70	64	38	13	5	16
All other States	**7 050**	**71 016 606**	**10 073**	**2 715**	**2 169**	**699**	**273**	**193**	**259**	**178**	**564**
Water resources areas:											
WRA 01 New England	527	3 587 647	6 808	235	160	54	27	8	10	7	26
WRA 02 Mid-Atlantic	1 000	8 135 584	8 136	336	356	108	71	39	34	11	45
WRA 03 South Atlantic-Gulf	3 900	45 495 573	11 666	2 026	860	240	207	127	113	127	200
WRA 04 Great Lakes	1 344	10 510 216	7 820	526	440	125	20	43	94	17	79
WRA 05 Ohio	684	3 465 689	5 067	378	186	51	19	14	10	7	19
WRA 06 Tennessee	126	294 419	2 337	85	35	1	-	2	1	1	1
WRA 07 Upper Mississippi	849	12 333 496	14 527	286	318	35	2	15	32	2	159
WRA 08 Lower Mississippi	3 075	52 486 678	17 069	443	810	874	176	287	180	19	286
WRA 09 Souris-Red-Rainy	170	2 023 009	11 900	68	32	9	7	18	21	7	8
WRA 10 Missouri	11 916	77 584 511	6 511	4 960	4 192	909	703	150	384	89	529
WRA 11 Arkansas-White-Red	4 839	45 536 864	9 410	1 445	1 445	655	398	200	276	228	192
WRA 12 Texas-Gulf	4 007	39 240 415	9 793	899	1 696	651	123	35	68	268	267
WRA 13 Rio Grande	2 175	9 277 691	4 266	1 178	685	57	103	4	72	26	50
WRA 14 Upper Colorado	2 162	8 649 713	4 001	1 118	744	87	78	2	-	92	41
WRA 15 Lower Colorado	1 476	23 474 818	15 904	548	410	163	86	49	77	23	120
WRA 16 Great Basin	2 973	10 491 014	3 529	1 786	685	308	71	37	24	12	50
WRA 17 Pacific Northwest	15 757	80 742 886	5 124	9 219	3 853	1 316	448	231	207	156	327
WRA 18 California	14 402	151 816 831	10 541	6 693	4 107	1 478	675	444	376	149	480

Table 12. **Investment in Irrigation Equipment, Facilities, and Land Improvement: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Purchase of equipment and machinery									
				Farms with investment of—				Purpose of expenditures		
	Farms	Investment (dollars)	Average per farm (dollars)	$1 to $999	$1,000 to $9,999	$10,000 to $29,999	$30,000 or more	Replacement	Conservation	New expansion
Conterminous United States	**56 654**	**414 212 888**	**7 311**	**28 790**	**20 325**	**4 352**	**3 187**	**32 222**	**2 439**	**21 993**
17 Western States, Arkansas, Florida, and Louisiana	**50 688**	**361 066 885**	**7 123**	**26 241**	**18 127**	**3 718**	**2 602**	**29 625**	**2 357**	**18 706**
Arizona	801	13 319 410	16 628	300	380	69	52	506	33	262
Arkansas	1 417	13 968 926	9 858	349	824	165	79	627	16	774
California	10 767	93 837 737	8 715	6 476	3 322	659	310	6 900	463	3 404
Colorado	2 819	19 462 901	6 904	1 511	834	304	170	1 283	430	1 106
Florida	2 319	27 610 317	11 906	1 342	589	255	133	1 302	110	907
Idaho	4 641	35 478 439	7 645	2 431	1 705	276	229	2 402	356	1 883
Kansas	1 665	15 481 493	9 298	451	724	348	142	1 028	35	602
Louisiana	450	5 713 264	12 696	128	191	87	44	194	13	243
Montana	1 781	7 248 710	4 070	1 131	581	4	65	1 107	94	580
Nebraska	5 509	29 775 786	5 405	2 533	2 285	374	317	3 399	97	2 013
Nevada	271	2 332 433	8 607	107	127	18	19	149	16	106
New Mexico	849	5 897 663	6 947	359	343	114	33	521	19	309
North Dakota	145	1 326 673	9 149	78	44	10	13	88	14	43
Oklahoma	721	2 327 833	3 229	374	314	18	15	474	6	241
Oregon	3 284	10 323 744	3 144	2 286	773	133	92	1 904	66	1 314
South Dakota	315	2 506 355	7 957	143	102	58	12	132	13	170
Texas	4 496	47 001 795	10 454	931	2 427	416	722	2 604	143	1 749
Utah	1 874	5 912 289	3 155	1 147	580	120	27	845	152	877
Washington	5 856	19 036 546	3 251	3 825	1 674	246	111	3 789	185	1 882
Wyoming	708	2 504 571	3 538	339	308	44	17	371	96	241
All other States	**5 966**	**53 146 003**	**8 908**	**2 549**	**2 198**	**634**	**585**	**2 597**	**82**	**3 287**
Water resources areas:										
WRA 01 New England	496	2 233 151	4 502	247	194	37	18	266	9	221
WRA 02 Mid-Atlantic	915	6 550 730	7 159	326	446	108	35	428	2	485
WRA 03 South Atlantic-Gulf	3 322	34 200 510	10 295	1 841	852	400	229	1 933	110	1 279
WRA 04 Great Lakes	1 236	8 123 515	6 572	549	462	130	95	490	16	730
WRA 05 Ohio	563	2 860 819	5 081	332	162	47	22	223	5	335
WRA 06 Tennessee	114	266 093	2 334	80	29	3	2	42	-	72
WRA 07 Upper Mississippi	783	10 065 873	12 856	314	289	20	160	259	50	474
WRA 08 Lower Mississippi	2 149	31 477 142	14 647	433	1 194	287	235	713	29	1 407
WRA 09 Souris-Red-Rainy	147	1 758 329	11 961	68	31	33	15	81	7	59
WRA 10 Missouri	9 358	58 899 271	6 294	4 350	3 608	873	527	5 396	469	3 493
WRA 11 Arkansas-White-Red	4 111	35 252 153	8 575	1 277	1 868	583	383	2 203	140	1 768
WRA 12 Texas-Gulf	3 093	32 430 256	10 485	711	1 647	230	505	1 860	119	1 114
WRA 13 Rio Grande	1 110	4 632 124	4 173	511	485	73	41	817	1	292
WRA 14 Upper Colorado	1 399	5 722 534	4 090	847	408	64	80	624	209	566
WRA 15 Lower Colorado	957	13 546 235	14 155	420	409	76	52	603	33	321
WRA 16 Great Basin	1 885	7 024 501	3 727	1 073	693	74	45	840	196	849
WRA 17 Pacific Northwest	13 942	64 048 039	4 594	8 788	4 101	627	426	8 427	550	4 965
WRA 18 California	11 074	95 121 613	8 590	6 623	3 447	687	317	7 017	494	3 563

Table 12. **Investment in Irrigation Equipment, Facilities, and Land Improvement: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	New construction or deepening of wells									
				Farms with investment of—				Purpose of expenditures		
	Farms	Investment (dollars)	Average per farm (dollars)	$1 to $999	$1,000 to $9,999	$10,000 to $29,999	$30,000 or more	Replacement	Conservation	New expansion
Conterminous United States	**5 996**	**50 388 566**	**8 404**	**859**	**3 550**	**1 256**	**331**	**1 946**	**-**	**4 050**
17 Western States, Arkansas, Florida, and Louisiana	**5 298**	**44 209 233**	**8 345**	**826**	**3 156**	**1 025**	**291**	**1 868**	**-**	**3 430**
Arizona	142	2 451 850	17 267	28	59	36	19	69	-	73
Arkansas	517	3 989 602	7 717	29	368	119	1	108	-	409
California	1 685	15 697 468	9 316	187	1 135	222	141	439	-	1 246
Colorado	184	995 295	5 409	36	97	51	-	111	-	73
Florida	242	2 888 826	11 937	20	149	43	30	31	-	211
Idaho	193	1 033 300	5 354	73	92	15	13	15	-	178
Kansas	248	2 286 765	9 221	37	156	26	29	187	-	61
Louisiana	141	1 236 500	8 770	11	69	59	2	44	-	97
Montana	30	241 600	8 053	-	29	-	1	-	-	30
Nebraska	748	3 473 341	4 644	307	361	73	7	579	-	169
Nevada	21	289 900	13 805	-	7	12	2	6	-	15
New Mexico	159	1 031 536	6 488	-	133	15	11	123	-	36
North Dakota	37	170 980	4 621	8	26	3	-	16	-	21
Oklahoma	39	104 700	2 685	12	26	1	-	28	-	11
Oregon	35	586 895	16 768	6	5	10	14	5	-	30
South Dakota	27	325 100	12 041	13	1	13	-	-	-	27
Texas	794	6 764 775	8 520	59	405	311	19	94	-	700
Utah	2	(D)	(D)	-	-	1	1	-	-	2
Washington	35	563 800	16 109	-	19	15	1	13	-	22
Wyoming	19	(D)	(D)	-	19	-	-	-	-	19
All other States	**698**	**6 179 333**	**8 853**	**33**	**394**	**231**	**40**	**78**	**-**	**620**
Water resources areas:										
WRA 01 New England	8	17 328	2 166	4	4	-	-	5	-	3
WRA 02 Mid-Atlantic	97	418 641	4 316	12	79	6	-	1	-	96
WRA 03 South Atlantic-Gulf	291	3 429 056	11 784	20	177	63	31	33	-	258
WRA 04 Great Lakes	126	1 276 863	10 134	11	55	52	8	7	-	119
WRA 05 Ohio	23	243 050	10 567	6	9	6	2	1	-	22
WRA 06 Tennessee	6	8 694	1 449	-	6	-	-	3	-	3
WRA 07 Upper Mississippi	50	809 498	16 190	-	5	44	1	39	-	11
WRA 08 Lower Mississippi	964	7 984 731	8 283	40	613	280	31	169	-	795
WRA 09 Souris-Red-Rainy	30	118 980	3 966	8	19	3	-	19	-	11
WRA 10 Missouri	956	5 033 581	5 265	357	455	136	8	690	-	266
WRA 11 Arkansas-White-Red	595	6 125 680	10 295	22	266	261	46	210	-	385
WRA 12 Texas-Gulf	509	3 535 801	6 947	49	367	80	13	87	-	422
WRA 13 Rio Grande	124	594 450	4 794	-	110	14	-	99	-	25
WRA 14 Upper Colorado	98	89 500	913	36	62	-	-	36	-	62
WRA 15 Lower Colorado	148	2 484 850	16 790	28	65	36	19	69	-	79
WRA 16 Great Basin	23	336 400	14 626	-	7	13	3	6	-	17
WRA 17 Pacific Northwest	263	2 183 995	8 304	79	116	40	28	33	-	230
WRA 18 California	1 685	15 697 468	9 316	187	1 135	222	141	439	-	1 246

Table 12. **Investment in Irrigation Equipment, Facilities, and Land Improvement: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Construction of permanent storage and distribution systems									
				Farms with investment of—				Purpose of expenditures		
	Farms	Investment (dollars)	Average per farm (dollars)	$1 to $999	$1,000 to $9,999	$10,000 to $29,999	$30,000 or more	Replacement	Conservation	New expansion
Conterminous United States	**14 933**	**57 477 370**	**3 849**	**7 598**	**6 083**	**980**	**272**	**4 869**	**3 443**	**6 621**
17 Western States, Arkansas, Florida, and Louisiana	**13 775**	**52 520 488**	**3 813**	**7 116**	**5 533**	**862**	**264**	**4 603**	**3 237**	**5 935**
Arizona	363	2 942 644	8 106	135	127	85	16	108	117	138
Arkansas	388	1 689 922	4 355	176	137	74	1	43	94	251
California	2 602	18 188 883	6 990	1 299	935	218	150	945	351	1 306
Colorado	1 050	3 036 178	2 892	599	374	44	33	387	212	451
Florida	239	3 723 967	15 581	17	110	78	34	86	63	90
Idaho	1 382	3 213 700	2 325	878	439	62	3	494	399	489
Kansas	130	608 000	4 677	39	86	5	-	38	24	68
Louisiana	201	816 591	4 063	100	50	51	-	37	74	90
Montana	818	1 509 755	1 846	371	445	1	1	277	233	308
Nebraska	1 214	2 870 238	2 364	476	733	5	-	199	517	498
Nevada	313	1 214 589	3 880	126	163	17	7	148	61	104
New Mexico	512	1 144 807	2 236	389	95	28	-	199	114	199
North Dakota	17	56 100	3 300	-	15	2	-	9	3	5
Oklahoma	63	152 325	2 418	31	26	6	-	10	8	45
Oregon	882	2 139 243	2 425	528	290	60	4	339	157	386
South Dakota	103	300 885	2 921	30	72	1	-	30	41	32
Texas	1 057	3 803 732	3 599	337	657	60	3	206	242	609
Utah	899	821 295	914	687	212	-	-	351	117	431
Washington	957	2 500 668	2 613	631	302	16	8	426	255	276
Wyoming	585	1 786 966	3 055	267	265	49	4	271	155	159
All other States	**1 158**	**4 956 882**	**4 281**	**482**	**550**	**118**	**8**	**266**	**206**	**686**
Water resources areas:										
WRA 01 New England	166	834 738	5 029	53	94	13	6	46	54	66
WRA 02 Mid-Atlantic	143	489 649	3 424	27	103	13	-	13	15	115
WRA 03 South Atlantic-Gulf	417	4 251 311	10 195	157	130	95	35	104	81	232
WRA 04 Great Lakes	263	704 248	2 678	109	136	18	-	51	73	139
WRA 05 Ohio	224	326 020	1 455	125	99	-	-	36	31	157
WRA 06 Tennessee	19	4 430	233	19	-	-	-	3	2	14
WRA 07 Upper Mississippi	86	938 600	10 914	-	30	56	-	57	-	29
WRA 08 Lower Mississippi	593	3 279 466	5 530	259	206	126	2	66	168	359
WRA 09 Souris-Red-Rainy	20	59 000	2 950	6	14	-	-	-	14	6
WRA 10 Missouri	2 837	7 239 359	2 552	1 159	1 608	65	5	800	918	1 119
WRA 11 Arkansas-White-Red	678	3 304 451	4 874	228	388	62	-	175	86	417
WRA 12 Texas-Gulf	805	1 657 472	2 059	348	437	18	2	170	238	397
WRA 13 Rio Grande	597	1 288 367	2 158	456	120	20	1	210	143	244
WRA 14 Upper Colorado	744	2 160 187	2 903	421	254	36	33	390	156	198
WRA 15 Lower Colorado	463	3 089 208	6 672	199	163	85	16	116	127	220
WRA 16 Great Basin	894	1 628 570	1 822	591	279	17	7	346	124	424
WRA 17 Pacific Northwest	3 275	7 887 631	2 408	2 057	1 071	132	15	1 318	847	1 110
WRA 18 California	2 709	18 334 663	6 768	1 384	951	224	150	968	366	1 375

Table 12. **Investment in Irrigation Equipment, Facilities, and Land Improvement: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Land clearing and leveling									
				Farms with investment of—				Purpose of expenditures		
	Farms	Investment (dollars)	Average per farm (dollars)	$1 to $999	$1,000 to $9,999	$10,000 to $29,999	$30,000 or more	Replacement	Conservation	New expansion
Conterminous United States	**11 981**	**63 068 230**	**5 264**	**4 820**	**5 741**	**1 042**	**378**	**-**	**5 577**	**6 404**
17 Western States, Arkansas, Florida, and Louisiana	**10 702**	**56 333 842**	**5 264**	**4 508**	**4 946**	**904**	**344**	**-**	**5 394**	**5 308**
Arizona	362	3 947 925	10 906	80	182	64	36	-	156	206
Arkansas	403	2 451 550	6 083	51	264	87	1	-	230	173
California	2 596	22 524 587	8 677	824	1 167	431	174	-	1 344	1 252
Colorado	538	966 942	1 797	354	184	-	-	-	299	239
Florida	219	3 043 746	13 898	66	72	61	20	-	113	106
Idaho	767	2 971 740	3 874	208	499	46	14	-	349	418
Kansas	271	574 240	2 119	140	131	-	-	-	98	173
Louisiana	155	3 695 262	23 840	52	92	1	10	-	66	89
Montana	462	3 059 640	6 623	120	228	92	22	-	303	159
Nebraska	1 251	1 813 000	1 449	567	680	4	-	-	797	454
Nevada	205	1 024 253	4 996	61	125	11	8	-	95	110
New Mexico	524	2 398 630	4 578	282	187	39	16	-	200	324
North Dakota	36	547 000	15 194	-	28	-	8	-	27	9
Oklahoma	93	98 000	1 054	59	33	1	-	-	16	77
Oregon	596	2 057 385	3 452	341	214	24	17	-	314	282
South Dakota	69	90 848	1 317	35	33	1	-	-	47	22
Texas	959	2 442 286	2 547	535	400	20	4	-	457	502
Utah	424	(D)	(D)	275	136	13	-	-	140	284
Washington	586	1 722 596	2 940	397	167	8	14	-	252	334
Wyoming	186	(D)	(D)	61	124	1	-	-	91	95
All other States	**1 279**	**6 734 388**	**5 265**	**312**	**795**	**138**	**34**	**-**	**183**	**1 096**
Water resources areas:										
WRA 01 New England	80	502 430	6 280	33	35	4	8	-	16	64
WRA 02 Mid-Atlantic	80	676 564	8 457	16	34	30	-	-	9	71
WRA 03 South Atlantic-Gulf	576	3 614 696	6 276	193	302	61	20	-	113	463
WRA 04 Great Lakes	167	405 590	2 429	67	99	1	-	-	44	123
WRA 05 Ohio	44	35 800	814	32	12	-	-	-	5	39
WRA 06 Tennessee	4	15 202	3 801	1	3	-	-	-	-	4
WRA 07 Upper Mississippi	112	519 525	4 639	2	105	2	3	-	28	84
WRA 08 Lower Mississippi	860	9 745 339	11 332	87	553	186	34	-	341	519
WRA 09 Souris-Red-Rainy	21	86 700	4 129	11	7	3	-	-	-	21
WRA 10 Missouri	2 271	6 412 300	2 824	955	1 188	98	30	-	1 428	843
WRA 11 Arkansas-White-Red	345	854 580	2 477	169	175	1	-	-	130	215
WRA 12 Texas-Gulf	616	1 616 886	2 625	262	341	12	1	-	308	308
WRA 13 Rio Grande	768	2 762 750	3 597	493	225	31	19	-	317	451
WRA 14 Upper Colorado	587	677 492	1 154	416	171	-	-	-	201	386
WRA 15 Lower Colorado	393	4 354 525	11 080	95	182	80	36	-	156	237
WRA 16 Great Basin	520	1 501 543	2 888	217	271	24	8	-	199	321
WRA 17 Pacific Northwest	1 878	6 623 221	3 527	947	809	77	45	-	936	942
WRA 18 California	2 659	22 663 087	8 523	824	1 229	432	174	-	1 346	1 313

Table 13. **Expenses for Maintenance and Repairs of Irrigation Equipment and Facilities: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Farms	Expenses (dollars)	Average cost		Farms with expenses of—						
			Per farm	Per acre irrigated	$1 to $99	$100 to $499	$500 to $999	$1,000 to $2,999	$3,000 to $4,999	$5,000 to $9,999	$10,000 or more
Conterminous United States	**176 694**	**375 304 646**	**2 124**	**9**	**17 773**	**62 285**	**32 828**	**37 212**	**10 791**	**9 111**	**6 694**
17 Western States, Arkansas, Florida, and Louisiana	**161 396**	**355 464 379**	**2 202**	**9**	**16 390**	**56 421**	**29 321**	**34 300**	**10 004**	**8 465**	**6 495**
Arizona	2 328	14 511 864	6 234	17	70	686	288	639	138	182	325
Arkansas	4 486	9 587 026	2 137	5	256	948	676	1 478	670	365	93
California	36 867	80 006 653	2 170	11	4 182	14 917	5 901	7 283	1 582	1 601	1 401
Colorado	12 010	21 130 802	1 759	7	733	4 763	2 116	2 462	1 006	616	314
Florida	4 997	25 240 385	5 051	18	597	1 493	790	1 002	349	339	427
Idaho	13 452	20 550 331	1 528	6	1 217	5 016	3 282	2 487	687	438	325
Kansas	5 997	26 519 511	4 422	12	118	1 545	631	1 442	698	837	726
Louisiana	2 215	4 496 259	2 030	8	155	537	493	504	310	163	53
Montana	6 927	7 505 633	1 084	4	1 114	2 600	1 284	1 334	248	292	55
Nebraska	19 213	30 255 380	1 575	5	1 254	5 850	4 187	5 352	1 298	968	304
Nevada	1 642	4 255 904	2 592	6	93	450	368	443	134	87	67
New Mexico	4 357	7 126 479	1 636	11	587	1 607	802	825	198	162	176
North Dakota	547	910 812	1 665	6	19	162	135	129	54	38	10
Oklahoma	1 842	4 457 163	2 420	10	117	469	373	550	96	152	85
Oregon	9 050	11 250 209	1 243	6	1 631	3 983	1 645	1 212	307	153	119
South Dakota	1 408	1 833 841	1 302	5	71	454	317	407	79	73	7
Texas	12 186	59 406 980	4 875	12	575	2 083	1 952	3 106	1 378	1 428	1 664
Utah	7 985	6 615 390	828	6	997	3 907	1 501	1 171	207	133	69
Washington	9 589	14 449 692	1 507	10	1 514	3 771	1 824	1 608	351	316	205
Wyoming	4 298	5 354 065	1 246	4	1 090	1 180	756	866	214	122	70
All other States	**15 298**	**19 840 267**	**1 297**	**8**	**1 383**	**5 864**	**3 507**	**2 912**	**787**	**646**	**199**
Water resources areas:											
WRA 01 New England	621	1 228 050	1 978	53	94	258	66	112	38	24	29
WRA 02 Mid-Atlantic	1 774	2 000 680	1 128	11	169	693	386	389	51	59	27
WRA 03 South Atlantic-Gulf	8 823	30 584 384	3 466	16	723	3 020	1 937	1 544	588	520	491
WRA 04 Great Lakes	2 694	3 755 230	1 394	9	410	939	569	478	161	106	31
WRA 05 Ohio	1 060	621 108	586	8	288	456	134	141	26	15	-
WRA 06 Tennessee	107	72 591	678	18	22	59	9	12	2	2	1
WRA 07 Upper Mississippi	2 668	3 085 080	1 156	5	120	912	819	562	160	75	20
WRA 08 Lower Mississippi	7 760	16 320 464	2 103	6	383	1 827	1 417	2 316	985	665	167
WRA 09 Souris-Red-Rainy	410	563 914	1 375	5	28	165	87	78	22	21	9
WRA 10 Missouri	36 822	59 524 577	1 617	5	3 311	11 274	7 531	9 490	2 463	2 040	713
WRA 11 Arkansas-White-Red	11 767	52 024 620	4 421	11	415	2 862	1 832	3 025	1 245	1 009	1 379
WRA 12 Texas-Gulf	8 415	36 421 213	4 328	13	516	1 261	1 502	1 953	1 010	1 155	1 018
WRA 13 Rio Grande	5 539	10 727 820	1 937	8	426	2 180	850	1 164	310	356	253
WRA 14 Upper Colorado	6 730	6 886 419	1 023	5	722	3 344	1 046	1 074	333	152	59
WRA 15 Lower Colorado	2 988	15 154 530	5 072	16	222	912	376	780	184	186	328
WRA 16 Great Basin	8 039	9 646 097	1 200	6	917	3 538	1 528	1 409	353	179	115
WRA 17 Pacific Northwest	33 013	45 079 393	1 366	7	4 816	13 487	6 739	5 189	1 234	927	621
WRA 18 California	37 464	81 608 476	2 178	10	4 191	15 098	6 000	7 496	1 626	1 620	1 433

Table 14. **Irrigation Water From Off-Farm Suppliers: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Farms	Acres irrigated	Quantity received (acre-feet)	Cost (dollars)	Average cost per acre irrigated (dollars)	Farms by acres irrigated					
						1 to 159 acres	160 to 319 acres	320 to 479 acres	480 to 639 acres	640 to 999 acres	1,000 acres or more
Conterminous United States	**98 672**	**15 647 770**	**36 220 095**	**405 848 676**	**26**	**74 609**	**12 941**	**4 472**	**2 602**	**2 086**	**1 962**
17 Western States, Arkansas, Florida, and Louisiana	**98 107**	**15 625 620**	**36 179 508**	**405 457 307**	**26**	**74 066**	**12 922**	**4 471**	**2 602**	**2 086**	**1 960**
Arizona	1 994	374 556	1 676 270	17 512 632	47	1 489	147	127	91	71	69
Arkansas	83	11 903	23 523	408 205	34	65	16	-	-	-	2
California	27 931	4 620 677	14 045 847	233 098 932	50	23 208	2 096	684	615	499	829
Colorado	9 629	1 435 616	2 482 374	13 539 703	9	7 141	1 332	636	96	261	163
Florida	289	477 185	1 385 136	10 671 562	22	102	49	32	16	30	60
Idaho	12 581	1 958 869	3 667 257	28 024 762	14	8 659	2 465	641	360	326	130
Kansas	536	138 206	187 758	1 590 694	12	201	184	71	57	-	23
Louisiana	125	17 877	34 926	967 844	54	71	54	-	-	-	-
Montana	4 967	1 083 423	1 600 891	8 278 507	8	2 835	1 074	527	259	169	103
Nebraska	3 372	692 265	960 351	10 203 571	15	1 863	1 052	148	231	6	72
Nevada	1 008	277 134	773 217	3 338 767	12	662	187	58	26	33	42
New Mexico	3 556	221 316	531 373	4 941 089	22	3 240	133	100	52	28	3
North Dakota	128	31 149	47 104	412 334	13	52	28	31	14	3	-
Oklahoma	247	44 517	55 541	792 167	18	151	58	5	24	6	3
Oregon	6 718	803 386	1 722 659	14 376 992	18	5 277	886	216	118	148	73
South Dakota	469	120 200	131 794	1 482 572	12	201	182	72	-	2	12
Texas	3 555	698 785	1 392 647	18 638 472	27	2 702	361	51	173	165	103
Utah	8 632	832 542	1 760 016	7 421 637	9	6 993	1 074	365	114	36	50
Washington	9 062	943 341	2 181 343	23 305 473	25	7 479	809	391	171	112	100
Wyoming	3 225	842 673	1 519 481	6 451 392	8	1 675	735	316	185	191	123
All other States	**565**	**22 150**	**40 587**	**391 369**	**18**	**543**	**19**	**1**	**-**	**-**	**2**
Water resources areas:											
WRA 01 New England	76	869	512	31 425	36	76	-	-	-	-	-
WRA 02 Mid-Atlantic	149	2 075	1 360	115 544	56	149	-	-	-	-	-
WRA 03 South Atlantic-Gulf	290	478 335	1 387 340	10 698 010	22	102	49	32	16	30	61
WRA 04 Great Lakes	71	8 518	27 650	22 394	3	59	11	-	-	-	1
WRA 05 Ohio	108	1 083	1 144	42 406	39	107	-	1	-	-	-
WRA 06 Tennessee	10	29	19	486	17	10	-	-	-	-	-
WRA 07 Upper Mississippi	108	2 016	2 588	118 376	59	108	-	-	-	-	-
WRA 08 Lower Mississippi	144	29 655	58 854	1 344 444	45	71	71	-	-	-	2
WRA 09 Souris-Red-Rainy	21	4 200	2 938	7 968	2	9	7	5	-	-	-
WRA 10 Missouri	13 721	2 968 752	4 615 152	30 548 799	10	7 718	3 378	1 168	757	410	290
WRA 11 Arkansas-White-Red	2 616	487 701	977 363	5 867 186	12	1 856	281	206	79	104	90
WRA 12 Texas-Gulf	945	218 111	458 325	8 876 356	41	581	261	1	24	61	17
WRA 13 Rio Grande	5 998	826 273	1 532 638	15 034 427	18	4 993	279	241	186	186	113
WRA 14 Upper Colorado	7 119	908 736	1 706 698	6 967 615	8	5 321	1 198	351	46	80	123
WRA 15 Lower Colorado	2 371	410 023	1 768 297	17 901 573	44	1 803	162	170	94	73	69
WRA 16 Great Basin	7 735	903 687	1 939 925	8 690 382	10	6 287	850	341	134	64	59
WRA 17 Pacific Northwest	28 823	3 681 951	7 497 165	65 277 080	18	21 862	4 244	1 223	632	570	292
WRA 18 California	28 367	4 715 756	14 242 127	234 304 205	50	23 497	2 150	733	634	508	845

Table 15. Farms With Diminished Crop Yields Resulting From Irrigation Interruption by Cause: 1984

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Total		Shortage of surface water		Shortage of ground water		Irrigation equipment failure	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
Conterminous United States	**33 141**	**8 020 875**	**11 630**	**2 351 931**	**5 017**	**1 535 267**	**12 278**	**3 683 366**
17 Western States, Arkansas, Florida, and Louisiana	**29 593**	**7 563 148**	**10 166**	**2 223 489**	**4 601**	**1 517 301**	**10 516**	**3 422 052**
Arizona	394	94 150	94	9 215	38	21 124	142	40 962
Arkansas	643	250 889	151	75 888	81	74 308	237	108 567
California	3 955	781 230	862	272 812	669	157 709	1 405	346 508
Colorado	2 545	641 435	1 286	235 213	185	33 630	823	330 160
Florida	684	190 525	155	69 919	168	38 657	393	101 167
Idaho	1 956	591 517	519	102 243	42	30 176	908	372 239
Kansas	1 260	524 336	61	13 390	278	180 662	796	287 898
Louisiana	240	37 207	83	11 889	40	4 928	125	14 718
Montana	2 366	603 416	1 733	442 317	296	44 170	378	139 716
Nebraska	2 229	726 632	456	125 699	184	79 764	1 043	431 531
Nevada	324	131 234	130	35 603	42	9 458	80	42 811
New Mexico	1 168	131 654	635	53 202	186	25 372	187	39 520
North Dakota	189	33 727	80	5 799	21	3 236	109	26 102
Oklahoma	718	166 852	237	35 782	128	27 486	283	95 273
Oregon	2 168	320 488	878	131 476	243	39 567	483	117 234
South Dakota	339	82 672	100	24 390	13	3 380	155	52 985
Texas	4 557	1 615 459	1 213	324 915	1 701	697 338	1 258	587 438
Utah	1 405	223 166	582	72 020	27	2 835	535	108 227
Washington	1 511	151 276	392	30 487	215	20 545	849	92 420
Wyoming	942	265 283	519	151 230	44	22 956	327	86 576
All other States	**3 548**	**457 727**	**1 464**	**128 442**	**416**	**17 966**	**1 762**	**261 314**
Water resources areas:								
WRA 01 New England	94	3 347	49	1 335	31	687	35	1 374
WRA 02 Mid-Atlantic	423	34 773	128	6 614	25	3 182	257	25 084
WRA 03 South Atlantic-Gulf	1 607	252 131	509	80 357	370	40 745	874	146 049
WRA 04 Great Lakes	710	108 798	278	41 721	92	9 896	367	58 346
WRA 05 Ohio	519	12 781	373	4 663	53	357	107	8 106
WRA 06 Tennessee	38	735	17	523	12	(D)	15	395
WRA 07 Upper Mississippi	585	130 966	183	24 565	1	(D)	410	88 221
WRA 08 Lower Mississippi	890	315 946	245	96 709	121	79 236	391	142 991
WRA 09 Souris-Red-Rainy	103	28 779	19	4 523	11	1 568	58	16 301
WRA 10 Missouri	6 637	1 915 441	2 785	743 667	608	172 223	2 556	920 581
WRA 11 Arkansas-White-Red	3 609	1 383 225	675	138 701	835	418 176	1 275	606 396
WRA 12 Texas-Gulf	2 856	910 234	828	185 272	1 184	479 247	1 036	380 716
WRA 13 Rio Grande	1 843	291 563	1 093	174 002	371	35 998	144	49 990
WRA 14 Upper Colorado	1 438	319 329	818	162 211	29	8 645	356	125 972
WRA 15 Lower Colorado	568	114 213	201	20 112	38	21 124	198	50 528
WRA 16 Great Basin	1 412	303 253	532	77 707	42	9 458	552	131 806
WRA 17 Pacific Northwest	5 516	1 081 135	2 030	311 747	508	88 566	2 170	568 275
WRA 18 California	4 293	814 226	867	277 502	686	164 403	1 477	362 235

Table 15. Farms With Diminished Crop Yields Resulting From Irrigation Interruption by Cause: 1984—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Energy shortage		Poor water quality		Loss of water rights		Other	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
Conterminous United States	**1 413**	**386 289**	**2 061**	**338 668**	**718**	**126 452**	**7 117**	**1 504 161**
17 Western States, Arkansas, Florida, and Louisiana	**1 273**	**373 435**	**1 957**	**335 883**	**677**	**125 442**	**6 729**	**1 436 900**
Arizona	9	3 450	12	3 660	16	1 478	104	17 341
Arkansas	101	20 940	124	11 466	-	-	132	48 298
California	244	96 854	80	81 228	18	8 391	1 237	158 639
Colorado	78	15 300	134	16 258	126	34 234	429	98 787
Florida	64	4 887	25	16 394	-	-	72	6 412
Idaho	78	30 560	170	17 184	30	3 450	451	138 798
Kansas	34	10 710	107	27 963	-	-	128	91 899
Louisiana	-	-	37	5 875	-	-	27	5 820
Montana	104	35 500	250	34 839	70	12 263	423	91 970
Nebraska	216	23 984	-	-	-	-	422	107 514
Nevada	1	(D)	11	6 280	19	5 073	86	46 248
New Mexico	34	6 939	184	13 064	28	1 392	289	22 256
North Dakota	12	690	-	-	-	-	18	3 129
Oklahoma	24	15 150	33	15 310	-	-	137	33 556
Oregon	19	9 510	178	1 841	4	(D)	653	61 230
South Dakota	30	14 370	69	11 886	1	(D)	45	8 411
Texas	204	71 611	261	48 522	266	27 203	1 298	398 031
Utah	2	(D)	134	17 555	-	-	275	31 220
Washington	8	2 320	102	3 124	66	1 122	337	32 283
Wyoming	11	6 050	46	3 434	33	14 642	166	35 058
All other States	**140**	**12 854**	**104**	**2 785**	**41**	**1 010**	**388**	**67 261**
Water resources areas:								
WRA 01 New England	-	-	4	40	4	550	18	1 284
WRA 02 Mid-Atlantic	16	800	18	180	11	110	38	3 075
WRA 03 South Atlantic-Gulf	167	8 501	26	17 942	-	-	159	10 668
WRA 04 Great Lakes	-	-	20	200	-	-	90	12 730
WRA 05 Ohio	14	140	19	88	26	350	33	1 135
WRA 06 Tennessee	-	-	6	9	-	-	5	49
WRA 07 Upper Mississippi	2	(D)	36	720	-	-	37	18 000
WRA 08 Lower Mississippi	101	20 940	161	17 341	-	-	104	51 110
WRA 09 Souris-Red-Rainy	5	5 500	-	-	-	-	20	3 721
WRA 10 Missouri	451	95 894	397	55 215	122	58 555	1 035	250 827
WRA 11 Arkansas-White-Red	110	54 244	154	43 623	-	-	1 052	411 731
WRA 12 Texas-Gulf	107	43 543	118	14 712	265	22 403	505	150 403
WRA 13 Rio Grande	69	5 773	313	46 524	137	20 986	493	29 639
WRA 14 Upper Colorado	12	4 080	102	11 202	-	-	402	70 869
WRA 15 Lower Colorado	9	3 450	12	3 660	16	1 478	125	19 441
WRA 16 Great Basin	1	(D)	145	23 835	19	5 073	309	76 132
WRA 17 Pacific Northwest	105	42 390	450	22 149	100	8 556	1 211	228 823
WRA 18 California	244	96 854	80	81 228	18	8 391	1 481	164 524

Table 16. **Crops Harvested From Irrigated Farms: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Corn for grain or seed										
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (bushels)	1 to 24 acres	25 to 49 acres	50 to 99 acres	100 to 249 acres	250 acres or more	Farms	Acres harvested	Average yield per acre (bushels)
Conterminous United States	**41 737**	**7 745 419**	**137**	**3 789**	**5 417**	**7 860**	**15 997**	**8 674**	**12 181**	**1 806 436**	**89**
17 Western States, Arkansas, Florida, and Louisiana	**35 567**	**6 867 823**	**137**	**3 180**	**4 501**	**6 268**	**13 847**	**7 771**	**5 356**	**700 647**	**68**
Arizona	102	16 215	150	45	9	3	24	21	-	-	-
Arkansas	118	26 501	136	-	21	38	23	36	17	30 038	67
California	1 424	272 519	134	221	261	221	479	242	-	-	-
Colorado	4 017	749 766	141	558	878	683	990	908	135	12 725	30
Florida	214	45 602	99	37	46	55	20	56	169	26 341	48
Idaho	1 762	89 344	116	714	473	290	245	40	-	-	-
Kansas	2 709	575 729	140	291	321	456	791	850	233	14 813	94
Louisiana	29	(D)	112	-	-	27	-	2	91	6 610	91
Montana	165	13 561	122	54	25	22	49	15	-	-	-
Nebraska	17 958	3 873 138	135	236	1 344	3 025	9 062	4 291	3 921	377 642	68
Nevada	1	(D)	(D)	-	-	1	-	-	-	-	-
New Mexico	264	41 458	153	102	23	9	71	59	-	-	-
North Dakota	262	57 771	112	13	24	67	73	85	134	31 844	56
Oklahoma	65	14 609	151	-	1	5	46	13	20	720	79
Oregon	443	32 781	142	181	169	49	20	24	-	-	-
South Dakota	947	159 968	119	18	46	300	431	152	437	112 883	74
Texas	3 227	665 781	148	366	318	657	1 090	796	199	87 031	68
Utah	549	26 061	126	173	213	100	50	13	-	-	-
Washington	778	154 515	152	127	154	106	263	128	-	-	-
Wyoming	533	49 746	105	44	175	154	120	40	-	-	-
All other States	**6 170**	**877 596**	**140**	**609**	**916**	**1 592**	**2 150**	**903**	**6 825**	**1 105 789**	**102**
Water resources areas:											
WRA 01 New England	6	184	100	4	-	2	-	-	20	1 182	86
WRA 02 Mid-Atlantic	359	46 896	146	44	44	102	134	35	509	95 109	107
WRA 03 South Atlantic-Gulf	1 637	218 542	121	233	231	424	490	259	1 894	226 389	81
WRA 04 Great Lakes	1 187	219 335	142	85	158	244	432	268	1 331	250 877	86
WRA 05 Ohio	259	39 750	148	57	8	53	96	45	679	103 661	109
WRA 06 Tennessee	24	793	158	16	3	1	4	-	31	705	102
WRA 07 Upper Mississippi	1 911	281 946	147	93	401	467	677	273	1 846	336 522	121
WRA 08 Lower Mississippi	620	89 451	140	38	95	131	278	78	304	55 501	90
WRA 09 Souris-Red-Rainy	278	56 753	108	20	50	57	85	66	169	34 744	66
WRA 10 Missouri	24 559	5 043 899	135	832	2 383	4 524	11 161	5 659	5 145	612 847	72
WRA 11 Arkansas-White-Red	2 712	696 916	151	291	348	490	628	955	54	(D)	(D)
WRA 12 Texas-Gulf	2 176	384 740	148	222	178	495	821	460	198	86 971	68
WRA 13 Rio Grande	602	55 469	105	219	152	67	91	73	1	(D)	(D)
WRA 14 Upper Colorado	452	22 406	131	251	105	33	29	34	-	-	-
WRA 15 Lower Colorado	103	16 495	150	45	9	3	24	22	-	-	-
WRA 16 Great Basin	445	22 685	129	96	195	101	40	13	-	-	-
WRA 17 Pacific Northwest	2 983	276 640	139	1 022	796	445	528	192	-	-	-
WRA 18 California	1 424	272 519	134	221	261	221	479	242	-	-	-

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Corn for silage or green chop									
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (tons, green)	1 to 14 acres	15 to 24 acres	25 to 49 acres	50 to 99 acres	100 acres or more	Farms	Acres harvested	Average yield per acre (tons, green)
Conterminous United States	**13 525**	**916 386**	**21**	**2 765**	**2 758**	**3 063**	**2 371**	**2 568**	**2 817**	**150 757**	**13**
17 Western States, Arkansas, Florida, and Louisiana	**12 673**	**866 431**	**21**	**2 608**	**2 661**	**2 832**	**2 243**	**2 329**	**1 339**	**61 827**	**14**
Arizona	102	5 295	26	42	12	10	28	10	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-	-	-
California	1 487	174 418	21	-	18	452	443	574	-	-	-
Colorado	1 368	121 657	21	89	206	517	262	294	-	-	-
Florida	21	5 370	21	-	-	-	6	15	-	-	-
Idaho	1 369	44 112	22	466	275	281	278	69	-	-	-
Kansas	776	64 108	19	78	116	216	208	158	101	8 087	14
Louisiana	-	-	-	-	-	-	-	-	22	1 100	13
Montana	655	53 048	19	-	91	288	91	185	-	-	-
Nebraska	3 040	165 781	22	1 151	1 217	238	138	296	831	21 005	20
Nevada	49	1 945	20	5	20	5	17	2	-	-	-
New Mexico	216	25 043	21	6	31	22	59	98	-	-	-
North Dakota	136	11 506	16	-	-	44	47	45	91	8 049	8
Oklahoma	36	10 560	18	-	-	-	-	36	-	-	-
Oregon	516	23 032	24	136	57	175	85	63	40	1 400	25
South Dakota	280	17 589	14	-	68	94	56	62	235	21 844	9
Texas	322	35 101	24	-	53	1	104	164	-	-	-
Utah	1 569	50 207	21	596	372	350	186	65	-	-	-
Washington	303	24 618	26	39	13	64	112	75	19	342	20
Wyoming	428	33 041	17	-	112	75	123	118	-	-	-
All other States	**852**	**49 955**	**18**	**157**	**97**	**231**	**128**	**239**	**1 478**	**88 930**	**12**
Water resources areas:											
WRA 01 New England	1	86	15	-	-	-	1	-	13	666	15
WRA 02 Mid-Atlantic	18	450	30	-	-	18	-	-	78	16 323	9
WRA 03 South Atlantic-Gulf	202	25 950	20	-	-	21	81	100	301	10 261	15
WRA 04 Great Lakes	155	5 663	18	41	23	35	51	5	284	19 122	12
WRA 05 Ohio	5	120	15	-	3	2	-	-	168	5 206	15
WRA 06 Tennessee	9	272	24	6	-	-	1	2	23	892	18
WRA 07 Upper Mississippi	270	6 891	17	84	58	127	-	1	424	22 036	11
WRA 08 Lower Mississippi	1	100	12	-	-	-	-	1	22	1 100	13
WRA 09 Souris-Red-Rainy	99	3 409	15	26	13	38	15	7	95	15 048	8
WRA 10 Missouri	5 893	389 508	20	1 240	1 759	1 171	634	1 089	1 249	50 274	14
WRA 11 Arkansas-White-Red	903	112 790	20	78	1	203	278	343	101	8 087	14
WRA 12 Texas-Gulf	138	10 369	26	-	52	-	45	41	-	-	-
WRA 13 Rio Grande	166	18 447	20	6	24	22	38	76	-	-	-
WRA 14 Upper Colorado	536	32 079	20	103	101	167	96	69	-	-	-
WRA 15 Lower Colorado	105	5 505	26	42	12	10	31	10	-	-	-
WRA 16 Great Basin	1 331	38 632	22	498	300	308	182	43	-	-	-
WRA 17 Pacific Northwest	2 206	91 697	23	641	394	489	475	207	59	1 742	24
WRA 18 California	1 487	174 418	21	-	18	452	443	574	-	-	-

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Sorghum for grain or seed									
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (bushels)	1 to 24 acres	25 to 49 acres	50 to 99 acres	100 to 249 acres	250 acres or more	Farms	Acres harvested	Average yield per acre (bushels)
Conterminous United States	**12 631**	**1 724 781**	**93**	**2 109**	**2 380**	**3 093**	**3 230**	**1 819**	**12 496**	**2 047 844**	**53**
17 Western States, Arkansas, Florida, and Louisiana	**12 013**	**1 671 546**	**93**	**1 995**	**2 211**	**2 900**	**3 127**	**1 780**	**11 515**	**1 886 452**	**51**
Arizona	128	20 938	80	19	23	40	18	28	–	–	–
Arkansas	615	77 893	87	58	129	229	109	90	852	163 456	63
California	333	42 400	71	18	51	107	130	27	55	7 760	47
Colorado	660	83 666	74	179	–	61	361	59	176	46 332	20
Florida	38	3 806	47	16	5	11	5	1	40	6 955	42
Idaho	–	–	–	–	–	–	–	–	–	–	–
Kansas	3 325	571 197	98	271	564	799	990	701	2 738	495 394	40
Louisiana	2	(D)	(D)	–	–	–	1	1	139	48 807	72
Montana	14	2 324	68	–	–	–	14	–	–	–	–
Nebraska	2 671	149 815	99	731	647	981	311	1	4 809	527 185	68
Nevada	5	(D)	60	–	–	5	–	–	–	–	–
New Mexico	393	46 650	90	69	19	154	111	40	107	49 099	38
North Dakota	–	–	–	–	–	–	–	–	–	–	–
Oklahoma	424	76 225	78	73	34	105	135	77	279	37 143	31
Oregon	8	800	93	–	–	–	8	–	–	–	–
South Dakota	9	1 125	94	–	–	–	9	–	98	20 455	71
Texas	3 376	593 305	93	561	728	408	924	755	2 222	483 866	42
Utah	–	–	–	–	–	–	–	–	–	–	–
Washington	–	–	–	–	–	–	–	–	–	–	–
Wyoming	12	472	55	–	11	–	1	–	–	–	–
All other States	**618**	**53 235**	**100**	**114**	**169**	**193**	**103**	**39**	**981**	**161 392**	**79**
Water resources areas:											
WRA 01 New England	–	–	–	–	–	–	–	–	–	–	–
WRA 02 Mid-Atlantic	–	–	–	–	–	–	–	–	29	2 067	54
WRA 03 South Atlantic-Gulf	116	6 736	76	62	5	42	6	1	133	18 219	44
WRA 04 Great Lakes	–	–	–	–	–	–	–	–	–	–	–
WRA 05 Ohio	3	(D)	114	3	–	–	–	–	40	2 293	82
WRA 06 Tennessee	5	182	77	2	1	2	–	–	9	368	81
WRA 07 Upper Mississippi	1	(D)	(D)	–	–	1	–	–	35	1 225	90
WRA 08 Lower Mississippi	960	116 436	93	58	210	388	176	128	1 253	239 316	76
WRA 09 Souris-Red-Rainy	–	–	–	–	–	–	–	–	–	–	–
WRA 10 Missouri	3 660	212 098	96	1 129	801	1 170	521	39	6 254	726 304	62
WRA 11 Arkansas-White-Red	5 183	1 092 985	95	392	810	808	1 777	1 396	3 081	670 720	39
WRA 12 Texas-Gulf	1 838	162 107	87	385	378	486	513	76	1 293	304 032	37
WRA 13 Rio Grande	370	67 983	88	31	101	44	70	124	314	75 540	77
WRA 14 Upper Colorado	–	–	–	–	–	–	–	–	–	–	–
WRA 15 Lower Colorado	149	22 685	81	29	23	40	29	28	–	–	–
WRA 16 Great Basin	5	275	60	–	–	5	–	–	–	–	–
WRA 17 Pacific Northwest	8	800	93	–	–	–	8	–	–	–	–
WRA 18 California	333	42 400	71	18	51	107	130	27	55	7 760	47

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Wheat for grain									
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (bushels)	1 to 24 acres	25 to 49 acres	50 to 99 acres	100 to 249 acres	250 acres or more	Farms	Acres harvested	Average yield per acre (bushels)
Conterminous United States	**24 836**	**3 990 105**	**69**	**4 590**	**4 351**	**5 054**	**6 508**	**4 333**	**24 829**	**6 291 336**	**35**
17 Western States, Arkansas, Florida, and Louisiana	**24 358**	**3 938 450**	**69**	**4 548**	**4 254**	**4 865**	**6 392**	**4 299**	**21 012**	**5 730 996**	**35**
Arizona	471	119 662	88	23	41	124	147	136	6	120	30
Arkansas	73	17 053	52	–	–	20	20	33	1 993	433 102	44
California	1 905	521 237	88	85	233	397	631	559	330	72 901	50
Colorado	1 915	235 157	60	505	174	290	731	215	1 178	605 597	32
Florida	12	3 921	29	–	5	–	6	1	89	14 300	31
Idaho	5 146	572 207	85	1 674	1 081	989	835	567	593	112 436	34
Kansas	2 623	599 606	56	75	329	523	885	811	4 400	1 615 176	37
Louisiana	15	3 600	45	–	–	–	15	–	202	47 113	43
Montana	1 325	145 658	55	178	289	352	391	115	1 194	458 006	23
Nebraska	1 141	122 296	47	136	259	371	226	149	5 137	575 059	38
Nevada	104	14 659	79	11	30	36	15	12	–	–	–
New Mexico	543	92 980	53	102	45	116	155	125	137	36 732	15
North Dakota	103	11 551	56	3	15	42	34	9	344	105 207	34
Oklahoma	652	123 102	50	51	93	130	232	146	1 104	349 875	30
Oregon	1 470	139 403	91	523	310	326	176	135	1 239	219 759	63
South Dakota	114	8 790	43	9	22	51	32	–	372	98 825	31
Texas	4 050	885 463	54	261	843	604	1 330	1 012	1 894	668 957	20
Utah	947	35 729	72	527	193	123	102	2	194	19 217	23
Washington	1 551	272 478	96	305	273	319	392	262	453	253 762	46
Wyoming	198	13 898	56	80	19	52	37	10	153	44 852	24
All other States	**478**	**51 655**	**43**	**42**	**97**	**189**	**116**	**34**	**3 817**	**560 340**	**42**
Water resources areas:											
WRA 01 New England	–	–	–	–	–	–	–	–	4	528	30
WRA 02 Mid-Atlantic	13	510	45	–	13	–	–	–	477	45 507	44
WRA 03 South Atlantic-Gulf	209	28 917	38	–	25	53	115	16	967	202 064	37
WRA 04 Great Lakes	43	670	63	36	7	–	–	–	656	54 513	52
WRA 05 Ohio	9	372	43	2	5	2	–	–	265	17 428	42
WRA 06 Tennessee	2	(D)	(D)	2	–	–	–	–	6	950	42
WRA 07 Upper Mississippi	52	(D)	55	2	–	42	5	3	647	56 001	48
WRA 08 Lower Mississippi	242	37 910	47	–	49	106	38	49	2 629	568 047	43
WRA 09 Souris-Red-Rainy	27	2 043	47	–	3	23	–	1	199	95 893	43
WRA 10 Missouri	4 151	474 210	54	499	863	1 200	1 065	524	9 439	2 051 137	34
WRA 11 Arkansas-White-Red	5 524	1 429 728	53	409	560	810	1 967	1 778	5 541	2 234 181	31
WRA 12 Texas-Gulf	2 228	265 849	59	187	614	474	705	248	957	155 852	19
WRA 13 Rio Grande	280	38 783	82	87	3	3	152	35	15	120	19
WRA 14 Upper Colorado	301	12 306	75	215	–	–	86	–	115	127 135	25
WRA 15 Lower Colorado	478	122 453	87	23	41	125	150	139	33	6 870	18
WRA 16 Great Basin	1 039	49 926	75	527	223	159	116	14	272	18 550	28
WRA 17 Pacific Northwest	8 220	992 247	89	2 454	1 682	1 650	1 472	962	2 277	583 659	50
WRA 18 California	2 018	526 810	88	147	263	407	637	564	330	72 901	50

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Barley for grain										
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (bushels)	1 to 14 acres	15 to 24 acres	25 to 49 acres	50 to 99 acres	100 acres or more	Farms	Acres harvested	Average yield per acre (bushels)
Conterminous United States	**18 318**	**1 725 733**	**81**	**3 080**	**2 599**	**4 075**	**4 217**	**4 347**	**5 081**	**960 265**	**40**
17 Western States, Arkansas, Florida, and Louisiana	**18 273**	**1 721 979**	**81**	**3 080**	**2 599**	**4 054**	**4 207**	**4 333**	**4 285**	**884 079**	**39**
Arizona	242	34 880	115	5	11	58	29	139	11	2 390	24
Arkansas	-	-	-	-	-	-	-	-	-	-	-
California	998	215 607	86	45	64	193	246	450	128	14 800	40
Colorado	1 834	146 140	79	284	360	424	342	424	278	97 196	36
Florida	-	-	-	-	-	-	-	-	-	-	-
Idaho	6 264	548 218	85	1 252	974	1 337	1 523	1 178	875	200 900	42
Kansas	268	21 732	64	-	37	73	67	91	547	69 607	45
Louisiana	-	-	-	-	-	-	-	-	-	-	-
Montana	2 268	262 708	70	132	146	522	805	663	1 101	271 000	27
Nebraska	159	18 970	49	-	-	-	91	68	157	9 755	22
Nevada	157	19 332	76	21	10	45	35	46	-	-	-
New Mexico	246	14 951	71	47	31	68	59	41	8	1 872	45
North Dakota	44	2 671	83	-	7	14	16	7	190	28 466	53
Oklahoma	22	6 570	41	-	-	-	5	17	40	7 398	31
Oregon	1 054	90 433	81	89	261	275	208	221	232	38 606	51
South Dakota	69	1 651	58	30	25	13	-	1	171	52 017	47
Texas	204	25 383	59	-	11	11	105	77	55	8 039	17
Utah	2 965	142 631	79	1 088	460	661	438	318	135	4 994	26
Washington	617	63 283	99	74	94	146	114	189	328	75 189	55
Wyoming	862	106 819	75	13	108	214	124	403	29	1 850	36
All other States	**45**	**3 754**	**61**	**-**	**-**	**21**	**10**	**14**	**796**	**76 186**	**56**
Water resources areas:											
WRA 01 New England	-	-	-	-	-	-	-	-	4	160	40
WRA 02 Mid-Atlantic	29	2 701	58	-	-	10	8	11	299	51 764	57
WRA 03 South Atlantic-Gulf	-	-	-	-	-	-	-	-	296	9 672	61
WRA 04 Great Lakes	-	-	-	-	-	-	-	-	52	2 734	63
WRA 05 Ohio	2	(D)	(D)	-	-	-	2	-	-	-	-
WRA 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-
WRA 07 Upper Mississippi	2	(D)	(D)	-	-	-	-	2	83	4 770	48
WRA 08 Lower Mississippi	-	-	-	-	-	-	-	-	16	3 200	30
WRA 09 Souris-Red-Rainy	35	1 788	77	-	7	16	7	5	141	22 472	58
WRA 10 Missouri	3 459	396 296	70	154	364	854	870	1 217	1 675	408 324	30
WRA 11 Arkansas-White-Red	516	41 088	60	-	153	129	128	106	515	89 509	39
WRA 12 Texas-Gulf	182	21 797	62	-	11	-	103	68	9	3 372	38
WRA 13 Rio Grande	644	94 767	85	47	31	91	138	337	-	-	-
WRA 14 Upper Colorado	853	31 782	78	336	149	151	150	67	106	15 370	55
WRA 15 Lower Colorado	402	55 922	98	62	11	104	34	191	38	5 090	19
WRA 16 Great Basin	3 307	165 558	79	1 045	527	807	538	390	371	38 854	37
WRA 17 Pacific Northwest	7 653	663 256	85	1 391	1 221	1 680	1 924	1 437	1 346	287 044	48
WRA 18 California	1 234	249 744	86	45	125	233	315	516	130	17 930	43

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Soybeans for beans									
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (bushels)	1 to 24 acres	25 to 49 acres	50 to 99 acres	100 to 249 acres	250 acres or more	Farms	Acres harvested	Average yield per acre (bushels)
Conterminous United States	**18 244**	**2 439 707**	**36**	**2 406**	**3 581**	**4 662**	**5 058**	**2 537**	**18 604**	**4 439 534**	**27**
17 Western States, Arkansas, Florida, and Louisiana	**14 239**	**1 844 905**	**36**	**1 994**	**2 715**	**3 751**	**3 901**	**1 878**	**11 555**	**2 582 598**	**26**
Arizona	-	-	-	-	-	-	-	-	-	-	-
Arkansas	2 482	728 651	33	45	95	442	797	1 103	2 765	1 094 646	26
California	-	-	-	-	-	-	-	-	-	-	-
Colorado	126	13 072	36	32	-	57	14	23	-	-	-
Florida	39	9 940	25	-	-	30	5	4	105	43 988	26
Idaho	-	-	-	-	-	-	-	-	-	-	-
Kansas	1 955	190 206	40	222	287	833	436	177	621	38 663	22
Louisiana	202	50 365	36	-	15	51	86	50	1 537	667 562	29
Montana	-	-	-	-	-	-	-	-	-	-	-
Nebraska	8 529	768 938	36	1 624	2 069	2 051	2 310	475	5 735	448 077	23
Nevada	-	-	-	-	-	-	-	-	-	-	-
New Mexico	14	386	25	2	10	2	-	-	-	-	-
North Dakota	32	3 144	39	-	9	11	11	1	41	5 871	18
Oklahoma	65	10 130	32	17	10	-	31	7	38	15 561	20
Oregon	-	-	-	-	-	-	-	-	-	-	-
South Dakota	224	23 383	32	13	54	72	67	18	246	41 898	25
Texas	571	46 690	43	39	166	202	144	20	467	226 332	26
Utah	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-
All other States	**4 005**	**594 802**	**38**	**412**	**866**	**911**	**1 157**	**659**	**7 049**	**1 856 936**	**27**
Water resources areas:											
WRA 01 New England	-	-	-	-	-	-	-	-	-	-	-
WRA 02 Mid-Atlantic	296	21 046	40	78	84	48	75	11	624	104 556	27
WRA 03 South Atlantic-Gulf	684	117 110	35	97	26	161	259	141	2 313	445 108	25
WRA 04 Great Lakes	538	36 394	42	113	151	170	86	18	666	103 771	29
WRA 05 Ohio	129	12 764	42	14	21	50	40	4	340	61 557	33
WRA 06 Tennessee	4	261	34	2	-	1	1	-	19	2 413	25
WRA 07 Upper Mississippi	870	89 789	44	41	205	264	307	53	1 483	270 970	34
WRA 08 Lower Mississippi	3 642	1 037 069	34	112	273	610	1 178	1 469	5 116	2 367 586	27
WRA 09 Souris-Red-Rainy	49	4 706	39	-	18	11	19	1	81	40 371	28
WRA 10 Missouri	9 621	866 804	36	1 805	2 302	2 478	2 448	588	6 805	625 451	22
WRA 11 Arkansas-White-Red	1 912	216 781	38	103	336	687	548	238	690	191 419	23
WRA 12 Texas-Gulf	439	34 217	46	39	155	135	96	14	467	226 332	26
WRA 13 Rio Grande	50	2 496	25	2	-	47	1	-	-	-	-
WRA 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-
WRA 15 Lower Colorado	10	270	20	-	10	-	-	-	-	-	-
WRA 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-
WRA 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-
WRA 18 California	-	-	-	-	-	-	-	-	-	-	-

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Beans, dry edible										
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (cwt.)	1 to 14 acres	15 to 24 acres	25 to 49 acres	50 to 99 acres	100 acres or more	Farms	Acres harvested	Average yield per acre (cwt.)
Conterminous United States	**6 899**	**641 436**	**20**	**326**	**548**	**2 078**	**1 936**	**2 011**	**456**	**49 207**	**15**
17 Western States, Arkansas, Florida, and Louisiana	**6 731**	**619 356**	**21**	**307**	**548**	**2 056**	**1 883**	**1 937**	**146**	**21 367**	**16**
Arizona	1	(D)	(D)	-	-	-	-	1	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-	-	-
California	1 114	155 825	20	-	53	296	266	499	50	17 622	17
Colorado	938	65 830	22	33	164	326	240	175	-	-	-
Florida	16	(D)	20	16	-	-	-	-	-	-	-
Idaho	2 077	150 981	20	151	251	772	541	362	-	-	-
Kansas	37	4 770	18	-	-	-	-	37	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-
Montana	91	7 176	22	22	22	-	25	22	-	-	-
Nebraska	1 313	141 224	20	-	-	363	425	525	64	640	15
Nevada	-	-	-	-	-	-	-	-	-	-	-
New Mexico	37	731	23	24	4	8	-	1	-	-	-
North Dakota	52	6 496	17	-	4	5	29	14	31	(D)	11
Oklahoma	16	1 595	10	-	-	-	11	5	-	-	-
Oregon	99	6 822	20	-	23	27	26	23	-	-	-
South Dakota	25	1 415	18	-	-	13	9	3	1	(D)	(D)
Texas	-	-	-	-	-	-	-	-	-	-	-
Utah	27	1 080	40	-	-	27	-	-	-	-	-
Washington	439	36 462	22	30	16	147	108	138	-	-	-
Wyoming	449	38 532	20	31	11	72	203	132	-	-	-
All other States	**168**	**22 080**	**16**	**19**	**-**	**22**	**53**	**74**	**310**	**27 840**	**15**
Water resources areas:											
WRA 01 New England	-	-	-	-	-	-	-	-	-	-	-
WRA 02 Mid-Atlantic	20	420	12	10	-	10	-	-	9	360	10
WRA 03 South Atlantic-Gulf	16	48	20	16	-	-	-	-	125	2 500	10
WRA 04 Great Lakes	116	13 957	17	-	-	12	46	58	121	18 884	10
WRA 05 Ohio	9	45	15	9	-	-	-	-	-	-	-
WRA 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-
WRA 07 Upper Mississippi	5	(D)	16	-	-	-	-	5	43	1 122	12
WRA 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-
WRA 09 Souris-Red-Rainy	39	8 842	16	-	-	-	14	25	35	7 194	28
WRA 10 Missouri	2 771	254 852	21	86	201	746	844	894	73	1 525	13
WRA 11 Arkansas-White-Red	73	5 243	14	-	-	-	68	5	-	-	-
WRA 12 Texas-Gulf	1	(D)	(D)	-	-	-	-	1	-	-	-
WRA 13 Rio Grande	59	2 035	20	24	4	8	23	-	-	-	-
WRA 14 Upper Colorado	33	825	18	-	-	33	-	-	-	-	-
WRA 15 Lower Colorado	1	(D)	(D)	-	-	-	-	1	-	-	-
WRA 16 Great Basin	27	1 080	40	-	-	27	-	-	-	-	-
WRA 17 Pacific Northwest	2 615	194 265	21	181	290	946	675	523	-	-	-
WRA 18 California	1 114	155 825	20	-	53	296	266	499	50	17 622	17

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Rice								Other small grains			
				Farms by acres harvested					Irrigated		Nonirrigated	
	Farms	Acres harvested	Average yield per acre (cwt.)	1 to 24 acres	25 to 49 acres	50 to 99 acres	100 to 249 acres	250 acres or more	Farms	Acres harvested	Farms	Acres harvested
Conterminous United States	**8 492**	**2 306 637**	**55**	**412**	**455**	**1 120**	**2 983**	**3 522**	**6 883**	**278 515**	**5 585**	**334 390**
17 Western States, Arkansas, Florida, and Louisiana	**7 913**	**2 130 800**	**55**	**412**	**426**	**1 024**	**2 849**	**3 202**	**6 676**	**265 639**	**3 773**	**254 617**
Arizona	-	-	-	-	-	-	-	-	40	4 597	-	-
Arkansas	4 103	942 002	54	212	240	632	1 510	1 509	20	2 420	20	1 940
California	1 274	452 673	72	-	93	183	388	610	585	59 480	286	13 780
Colorado	-	-	-	-	-	-	-	-	872	27 607	162	13 964
Florida	8	3 838	44	-	-	5	-	3	-	-	60	12 420
Idaho	-	-	-	-	-	-	-	-	780	21 529	17	68
Kansas	-	-	-	-	-	-	-	-	144	5 883	230	3 695
Louisiana	1 828	449 471	45	200	41	204	740	643	-	-	26	688
Montana	-	-	-	-	-	-	-	-	546	17 788	206	13 475
Nebraska	-	-	-	-	-	-	-	-	604	18 860	1 578	57 834
Nevada	-	-	-	-	-	-	-	-	109	3 586	-	-
New Mexico	-	-	-	-	-	-	-	-	271	7 437	1	200
North Dakota	-	-	-	-	-	-	-	-	35	1 542	211	31 569
Oklahoma	-	-	-	-	-	-	-	-	53	5 336	138	7 318
Oregon	-	-	-	-	-	-	-	-	320	12 537	179	15 503
South Dakota	-	-	-	-	-	-	-	-	177	9 178	366	48 713
Texas	700	282 816	50	-	52	-	211	437	536	23 501	149	25 940
Utah	-	-	-	-	-	-	-	-	837	14 018	28	1 400
Washington	-	-	-	-	-	-	-	-	218	9 000	102	3 230
Wyoming	-	-	-	-	-	-	-	-	529	21 340	14	2 880
All other States	**579**	**175 837**	**47**	**-**	**29**	**96**	**134**	**320**	**207**	**12 876**	**1 812**	**79 773**
Water resources areas:												
WRA 01 New England	-	-	-	-	-	-	-	-	4	12	12	830
WRA 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	99	2 756
WRA 03 South Atlantic-Gulf	8	3 838	44	-	-	5	-	3	92	5 268	554	24 231
WRA 04 Great Lakes	-	-	-	-	-	-	-	-	28	344	394	20 900
WRA 05 Ohio	-	-	-	-	-	-	-	-	-	-	45	667
WRA 06 Tennessee	-	-	-	-	-	-	-	-	-	-	6	67
WRA 07 Upper Mississippi	-	-	-	-	-	-	-	-	73	6 857	526	27 066
WRA 08 Lower Mississippi	6 061	1 466 270	51	412	257	828	2 293	2 271	20	2 420	46	2 628
WRA 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	22	1 055	170	31 439
WRA 10 Missouri	-	-	-	-	-	-	-	-	2 043	68 034	2 624	145 131
WRA 11 Arkansas-White-Red	449	101 040	49	-	53	104	91	201	511	20 116	261	24 658
WRA 12 Texas-Gulf	700	282 816	50	-	52	-	211	437	287	17 140	102	10 300
WRA 13 Rio Grande	-	-	-	-	-	-	-	-	255	7 914	-	-
WRA 14 Upper Colorado	-	-	-	-	-	-	-	-	891	25 751	57	6 555
WRA 15 Lower Colorado	-	-	-	-	-	-	-	-	88	4 993	-	-
WRA 16 Great Basin	-	-	-	-	-	-	-	-	478	10 407	28	1 400
WRA 17 Pacific Northwest	-	-	-	-	-	-	-	-	1 399	44 473	362	20 782
WRA 18 California	1 274	452 673	72	-	93	183	388	610	692	63 731	299	14 980

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Alfalfa and alfalfa mixtures for hay or dehydrating										
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (tons, dry)	1 to 14 acres	15 to 24 acres	25 to 49 acres	50 to 99 acres	100 acres or more	Farms	Acres harvested	Average yield per acre (tons, dry)
Conterminous United States	**61 646**	**5 399 610**	**4.4**	**13 202**	**7 900**	**12 588**	**12 741**	**15 215**	**13 764**	**867 873**	**2.7**
17 Western States, Arkansas, Florida, and Louisiana	**60 590**	**5 347 523**	**4.4**	**13 070**	**7 734**	**12 149**	**12 510**	**15 127**	**11 125**	**718 362**	**2.5**
Arizona	1 184	114 581	7.0	343	134	207	165	335	-	-	-
Arkansas	-	-	-	-	-	-	-	-	1	(D)	(D)
California	4 936	824 517	6.6	753	687	568	1 070	1 858	110	(D)	1.4
Colorado	7 411	609 351	3.5	1 305	815	1 613	1 869	1 809	482	17 126	1.5
Florida	-	-	-	-	-	-	-	-	-	-	-
Idaho	9 230	622 054	4.2	1 739	1 539	2 227	1 955	1 770	587	102 545	1.4
Kansas	1 803	228 762	4.9	107	173	466	491	566	1 035	63 708	3.1
Louisiana	-	-	-	-	-	-	-	-	-	-	-
Montana	5 238	542 261	3.1	838	695	995	1 058	1 652	766	82 075	1.5
Nebraska	5 004	335 832	4.1	563	804	1 318	1 067	1 252	6 144	266 878	3.4
Nevada	1 274	228 002	3.9	157	134	160	209	614	-	-	-
New Mexico	3 674	197 425	4.5	1 710	503	518	408	535	20	145	2.4
North Dakota	298	26 930	3.8	16	27	59	111	85	179	16 591	1.7
Oklahoma	650	46 804	4.7	67	99	227	130	127	234	16 778	3.7
Oregon	3 990	323 362	4.1	1 473	356	648	633	880	160	8 453	2.2
South Dakota	909	97 741	3.5	33	44	201	265	366	563	69 468	2.1
Texas	893	84 844	4.0	178	44	190	270	211	48	480	5.0
Utah	7 198	413 290	4.0	2 016	1 092	1 447	1 569	1 074	302	9 449	2.7
Washington	4 095	279 302	5.0	1 502	425	672	557	939	363	30 371	1.6
Wyoming	2 803	372 465	3.1	270	163	633	683	1 054	131	15 077	1.2
All other States	**1 056**	**52 087**	**4.8**	**132**	**166**	**439**	**231**	**88**	**2 639**	**149 511**	**3.7**
Water resources areas:											
WRA 01 New England	1	15	3.1	-	1	-	-	-	17	449	5.1
WRA 02 Mid-Atlantic	62	1 452	3.5	16	34	-	12	-	162	15 330	4.0
WRA 03 South Atlantic-Gulf	24	1 200	6.0	-	-	-	24	-	325	8 460	2.6
WRA 04 Great Lakes	237	13 760	5.9	52	10	84	49	42	714	51 557	3.6
WRA 05 Ohio	29	491	6.1	12	12	5	-	-	312	8 095	3.9
WRA 06 Tennessee	2	(D)	(D)	-	2	-	-	-	36	584	3.4
WRA 07 Upper Mississippi	602	31 366	4.3	35	107	322	78	60	942	58 018	4.0
WRA 08 Lower Mississippi	1	(D)	(D)	1	-	-	-	-	2	(D)	(D)
WRA 09 Souris-Red-Rainy	151	9 344	3.7	22	-	56	65	8	161	(D)	2.4
WRA 10 Missouri	15 584	1 436 340	3.6	1 689	1 907	3 777	3 708	4 503	8 408	475 250	2.8
WRA 11 Arkansas-White-Red	3 971	446 925	4.4	520	295	957	1 009	1 190	780	48 519	2.9
WRA 12 Texas-Gulf	407	38 404	4.0	2	44	188	87	86	51	570	4.7
WRA 13 Rio Grande	3 928	266 244	3.9	1 608	395	578	574	773	15	15	1.5
WRA 14 Upper Colorado	4 733	336 488	3.2	1 255	678	831	974	995	113	7 296	1.4
WRA 15 Lower Colorado	1 525	130 916	6.6	413	214	297	224	377	-	-	-
WRA 16 Great Basin	7 256	570 473	4.0	1 752	1 092	1 330	1 498	1 584	468	22 009	2.3
WRA 17 Pacific Northwest	17 830	1 253 716	4.3	4 986	2 365	3 586	3 303	3 590	1 148	140 504	1.4
WRA 18 California	5 303	862 426	6.5	839	744	577	1 136	2 007	110	19 118	1.4

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Other hay, including wild or native hay										
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (tons, dry)	1 to 14 acres	15 to 24 acres	25 to 49 acres	50 to 99 acres	100 acres or more	Farms	Acres harvested	Average yield per acre (tons, dry)
Conterminous United States	**23 001**	**2 685 642**	**1.9**	**6 581**	**3 244**	**4 324**	**3 258**	**5 594**	**15 663**	**1 321 003**	**1.6**
17 Western States, Arkansas, Florida, and Louisiana	**22 731**	**2 677 408**	**1.9**	**6 523**	**3 213**	**4 170**	**3 235**	**5 590**	**12 082**	**1 141 395**	**1.5**
Arizona	201	9 883	3.6	95	14	58	12	22	6	310	1.0
Arkansas	128	2 880	2.1	65	-	63	-	-	245	6 608	2.4
California	1 831	182 491	2.6	401	321	404	365	340	372	28 843	2.2
Colorado	3 700	506 771	1.7	872	487	641	476	1 224	390	25 202	1.3
Florida	147	11 667	3.8	74	6	15	25	27	423	46 712	2.9
Idaho	1 839	149 099	1.7	660	160	343	216	460	127	14 140	1.6
Kansas	375	13 916	2.4	106	117	33	85	34	693	36 245	2.2
Louisiana	61	2 419	2.0	37	-	-	24	-	290	13 488	1.8
Montana	2 003	334 744	1.9	396	334	276	281	716	422	34 819	1.1
Nebraska	888	58 850	1.4	304	-	235	110	239	4 994	677 445	1.3
Nevada	552	222 392	1.6	64	57	71	82	278	3	2 270	1.2
New Mexico	721	42 823	2.3	333	35	113	127	113	67	4 375	2.1
North Dakota	41	3 905	2.6	6	13	7	-	15	175	25 552	1.3
Oklahoma	326	18 188	2.3	71	40	111	50	54	455	33 089	1.8
Oregon	3 583	356 665	2.0	1 215	846	564	462	496	1 198	39 535	1.9
South Dakota	112	7 573	1.7	13	-	19	70	10	424	37 645	1.3
Texas	1 448	66 826	3.9	455	55	372	330	236	971	54 878	1.5
Utah	2 085	123 276	2.1	828	378	430	149	300	276	8 479	1.4
Washington	1 179	48 326	2.7	458	208	254	108	151	398	40 331	1.2
Wyoming	1 511	514 714	1.4	70	142	161	263	875	153	11 429	1.7
All other States	**270**	**8 234**	**2.3**	**58**	**31**	**154**	**23**	**4**	**3 581**	**179 608**	**1.9**
Water resources areas:											
WRA 01 New England	-	-	-	-	-	-	-	-	113	3 181	1.8
WRA 02 Mid-Atlantic	28	1 280	1.4	-	-	12	16	-	214	12 237	2.1
WRA 03 South Atlantic-Gulf	345	17 578	3.3	100	37	156	25	27	1 748	112 353	2.3
WRA 04 Great Lakes	30	106	2.4	30	-	-	-	-	287	16 232	2.1
WRA 05 Ohio	3	360	3.0	-	-	-	-	3	913	47 633	1.7
WRA 06 Tennessee	3	(D)	4.8	2	-	1	-	-	79	3 434	1.7
WRA 07 Upper Mississippi	1	(D)	(D)	-	-	-	-	1	388	13 231	1.9
WRA 08 Lower Mississippi	53	3 030	1.7	-	-	29	24	-	416	18 416	1.8
WRA 09 Souris-Red-Rainy	20	2 535	2.3	-	-	5	7	8	120	20 499	1.6
WRA 10 Missouri	4 194	754 526	1.7	846	456	730	763	1 399	6 725	806 730	1.4
WRA 11 Arkansas-White-Red	1 877	148 861	2.2	577	324	205	352	419	1 504	88 871	1.7
WRA 12 Texas-Gulf	898	50 419	4.2	175	-	308	186	229	575	34 348	1.6
WRA 13 Rio Grande	1 152	147 097	1.6	442	85	175	110	340	53	4 915	1.4
WRA 14 Upper Colorado	2 806	400 180	1.6	748	217	578	375	888	157	6 147	.9
WRA 15 Lower Colorado	281	13 989	3.4	121	31	74	28	27	6	310	1.0
WRA 16 Great Basin	2 287	367 268	1.7	655	352	372	201	707	194	6 492	1.6
WRA 17 Pacific Northwest	6 936	576 814	2.0	2 392	1 377	1 248	771	1 148	1 794	96 776	1.5
WRA 18 California	2 087	201 372	2.5	493	365	431	400	398	377	29 198	2.2

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Cotton										
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (lb lint)	1 to 24 acres	25 to 49 acres	50 to 99 acres	100 to 249 acres	250 acres or more	Farms	Acres harvested	Average yield per acre (lb lint)
Conterminous United States	**11 138**	**3 500 304**	**837**	**721**	**1 066**	**1 820**	**3 326**	**4 205**	**3 454**	**815 717**	**500**
17 Western States, Arkansas, Florida, and Louisiana	**10 665**	**3 393 555**	**833**	**672**	**1 029**	**1 691**	**3 178**	**4 095**	**2 989**	**652 277**	**446**
Arizona	887	370 895	1 332	15	72	122	270	408	-	-	-
Arkansas	229	61 959	829	-	-	67	99	63	473	105 614	586
California	2 508	1 190 066	1 058	119	307	489	691	902	4	880	200
Colorado	-	-	-	-	-	-	-	-	-	-	-
Florida	5	140	1 100	-	5	-	-	-	5	265	1 100
Idaho	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-
Louisiana	304	71 009	967	36	25	36	103	104	334	85 673	834
Montana	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-
New Mexico	706	73 246	726	102	135	209	189	71	2	(D)	(D)
North Dakota	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	368	62 627	584	30	38	118	121	61	200	(D)	238
Oregon	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-
Texas	5 658	1 563 613	552	370	447	650	1 705	2 486	1 971	438 824	346
Utah	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-
All other States	**473**	**106 749**	**947**	**49**	**37**	**129**	**148**	**110**	**465**	**163 440**	**716**
Water resources areas:											
WRA 01 New England	-	-	-	-	-	-	-	-	-	-	-
WRA 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-
WRA 03 South Atlantic-Gulf	162	(D)	925	20	5	76	52	9	67	7 148	653
WRA 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-
WRA 05 Ohio	-	-	-	-	-	-	-	-	-	-	-
WRA 06 Tennessee	1	(D)	(D)	-	-	-	1	-	3	306	546
WRA 07 Upper Mississippi	-	-	-	-	-	-	-	-	-	-	-
WRA 08 Lower Mississippi	807	213 635	928	65	62	156	257	267	1 167	339 953	708
WRA 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-
WRA 10 Missouri	-	-	-	-	-	-	-	-	-	-	-
WRA 11 Arkansas-White-Red	1 084	238 204	605	147	86	161	423	267	522	41 046	280
WRA 12 Texas-Gulf	4 256	1 264 819	514	113	272	527	1 231	2 113	1 379	312 515	285
WRA 13 Rio Grande	1 387	198 351	809	242	242	278	390	235	312	113 869	541
WRA 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-
WRA 15 Lower Colorado	933	376 074	1 324	15	92	133	281	412	-	-	-
WRA 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-
WRA 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-
WRA 18 California	2 508	1 190 066	1 058	119	307	489	691	902	4	880	200

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Sugar beets for sugar										
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (tons)	1 to 14 acres	15 to 24 acres	25 to 49 acres	50 to 99 acres	100 acres or more	Farms	Acres harvested	Average yield per acre (tons)
Conterminous United States	**3 935**	**502 383**	**23**	**211**	**218**	**868**	**836**	**1 802**	**78**	**10 452**	**19**
17 Western States, Arkansas, Florida, and Louisiana	**3 904**	**500 258**	**23**	**211**	**211**	**853**	**836**	**1 793**	**-**	**-**	**-**
Arizona	-	-	-	-	-	-	-	-	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-	-	-
California	668	155 483	26	4	20	84	125	435	-	-	-
Colorado	425	31 676	18	37	38	127	148	75	-	-	-
Florida	-	-	-	-	-	-	-	-	-	-	-
Idaho	1 339	158 679	23	131	130	205	247	626	-	-	-
Kansas	1	(D)	(D)	-	-	-	-	1	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-
Montana	139	(D)	18	22	-	22	46	49	-	-	-
Nebraska	640	64 370	21	-	-	172	183	285	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-
North Dakota	63	11 327	18	-	-	7	-	56	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-
Oregon	166	8 649	26	17	23	59	44	23	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-
Texas	173	23 468	24	-	-	45	-	128	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-
Wyoming	290	30 792	20	-	-	132	43	115	-	-	-
All other States	**31**	**2 125**	**19**	**-**	**7**	**15**	**-**	**9**	**78**	**10 452**	**19**
Water resources areas:											
WRA 01 New England	-	-	-	-	-	-	-	-	-	-	-
WRA 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-
WRA 03 South Atlantic-Gulf	-	-	-	-	-	-	-	-	-	-	-
WRA 04 Great Lakes	22	675	18	-	7	15	-	-	66	5 597	18
WRA 05 Ohio	-	-	-	-	-	-	-	-	-	-	-
WRA 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-
WRA 07 Upper Mississippi	-	-	-	-	-	-	-	-	-	-	-
WRA 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-
WRA 09 Souris-Red-Rainy	9	1 450	20	-	-	-	-	9	12	4 855	20
WRA 10 Missouri	1 558	153 979	20	59	38	460	420	581	-	-	-
WRA 11 Arkansas-White-Red	63	9 790	21	-	-	-	-	63	-	-	-
WRA 12 Texas-Gulf	110	13 678	26	-	-	45	-	65	-	-	-
WRA 13 Rio Grande	-	-	-	-	-	-	-	-	-	-	-
WRA 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-
WRA 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-
WRA 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-
WRA 17 Pacific Northwest	1 505	167 328	23	148	153	264	291	649	-	-	-
WRA 18 California	668	155 483	26	4	20	84	125	435	-	-	-

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Tobacco										
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (lb)	Less than 2 acres	2 to 4 acres	5 to 9 acres	10 to 14 acres	15 acres or more	Farms	Acres harvested	Average yield per acre (lb)
Conterminous United States	**3 693**	**49 184**	**2 322**	**226**	**880**	**1 069**	**339**	**1 179**	**632**	**15 380**	**1 930**
17 Western States, Arkansas, Florida, and Louisiana	**128**	**3 249**	**2 529**	**-**	**18**	**-**	**30**	**80**	**-**	**-**	**-**
Arizona	-	-	-	-	-	-	-	-	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-	-	-
California	-	-	-	-	-	-	-	-	-	-	-
Colorado	-	-	-	-	-	-	-	-	-	-	-
Florida	128	3 249	2 529	-	18	-	30	80	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-
Texas	-	-	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-
All other States	**3 565**	**45 935**	**2 307**	**226**	**862**	**1 069**	**309**	**1 099**	**632**	**15 380**	**1 930**
Water resources areas:											
WRA 01 New England	5	580	1 407	-	-	-	-	5	4	20	1 200
WRA 02 Mid-Atlantic	103	608	2 607	-	36	34	33	-	36	324	1 100
WRA 03 South Atlantic-Gulf	2 010	36 427	2 230	-	323	578	131	978	366	13 536	1 911
WRA 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-
WRA 05 Ohio	1 409	11 100	2 645	150	459	436	171	193	185	1 399	2 311
WRA 06 Tennessee	166	469	2 581	76	62	21	4	3	41	101	2 087
WRA 07 Upper Mississippi	-	-	-	-	-	-	-	-	-	-	-
WRA 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-
WRA 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-
WRA 10 Missouri	-	-	-	-	-	-	-	-	-	-	-
WRA 11 Arkansas-White-Red	-	-	-	-	-	-	-	-	-	-	-
WRA 12 Texas-Gulf	-	-	-	-	-	-	-	-	-	-	-
WRA 13 Rio Grande	-	-	-	-	-	-	-	-	-	-	-
WRA 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-
WRA 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-
WRA 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-
WRA 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-
WRA 18 California	-	-	-	-	-	-	-	-	-	-	-

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Irish potatoes										
	Irrigated								Nonirrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (cwt.)	Less than 15 acres	15 to 24 acres	25 to 49 acres	50 to 99 acres	100 acres or more	Farms	Acres harvested	Average yield per acre (cwt.)
Conterminous United States	**5 267**	**766 808**	**328**	**1 024**	**372**	**812**	**906**	**2 153**	**643**	**26 652**	**219**
17 Western States, Arkansas, Florida, and Louisiana	**4 225**	**632 479**	**333**	**622**	**350**	**722**	**785**	**1 746**	**112**	**4 141**	**171**
Arizona	10	1 287	310	-	-	-	-	10	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-	-	-
California	333	50 144	358	91	-	88	58	96	-	-	-
Colorado	534	86 549	312	141	-	47	80	266	57	86	65
Florida	114	30 594	235	-	15	-	-	99	4	1 340	150
Idaho	1 755	260 906	284	119	155	340	424	717	13	2 600	190
Kansas	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-
Montana	199	9 425	306	77	24	47	26	25	-	-	-
Nebraska	81	5 255	313	-	73	2	3	3	-	-	-
Nevada	27	10 027	344	-	-	-	3	24	-	-	-
New Mexico	79	1 513	255	75	-	-	-	4	-	-	-
North Dakota	12	1 266	332	9	-	-	-	3	-	-	-
Oklahoma	33	10	150	33	-	-	-	-	-	-	-
Oregon	435	51 069	412	-	41	155	137	102	-	-	-
South Dakota	2	(D)	(D)	2	-	-	-	-	13	65	100
Texas	90	(D)	207	-	-	-	-	90	-	-	-
Utah	104	8 251	277	46	27	-	-	31	25	50	26
Washington	408	96 631	495	22	15	43	54	274	-	-	-
Wyoming	9	1 305	312	7	-	-	-	2	-	-	-
All other States	**1 042**	**134 330**	**306**	**402**	**22**	**90**	**121**	**407**	**531**	**22 511**	**228**
Water resources areas:											
WRA 01 New England	65	4 058	253	39	6	3	4	13	41	1 199	211
WRA 02 Mid-Atlantic	353	26 172	238	149	-	61	55	88	108	3 477	182
WRA 03 South Atlantic-Gulf	133	38 574	227	-	15	-	-	118	125	6 680	190
WRA 04 Great Lakes	346	44 306	344	89	11	26	58	162	143	9 857	263
WRA 05 Ohio	67	1 797	297	53	4	-	4	6	27	1 812	275
WRA 06 Tennessee	10	238	174	7	1	-	-	2	4	312	156
WRA 07 Upper Mississippi	172	48 660	329	57	-	-	-	115	85	465	63
WRA 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-
WRA 09 Souris-Red-Rainy	21	2 105	334	17	-	-	-	4	2	(D)	(D)
WRA 10 Missouri	255	36 087	313	10	73	49	42	81	13	(D)	100
WRA 11 Arkansas-White-Red	77	8 710	219	33	-	-	-	44	-	-	-
WRA 12 Texas-Gulf	48	7 812	221	-	-	-	-	48	-	-	-
WRA 13 Rio Grande	258	65 101	301	-	-	-	41	217	-	-	-
WRA 14 Upper Colorado	216	333	319	216	-	-	-	-	82	136	51
WRA 15 Lower Colorado	10	1 287	310	-	-	-	-	10	-	-	-
WRA 16 Great Basin	131	18 278	314	46	27	-	3	55	-	-	-
WRA 17 Pacific Northwest	2 649	403 731	349	217	235	524	605	1 068	13	2 600	190
WRA 18 California	456	59 560	363	91	-	149	94	122	-	-	-

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Land in vegetables								
	Irrigated							Nonirrigated	
			Farms by acres harvested						
	Farms	Acres harvested	Less than 5 acres	5 to 14 acres	15 to 24 acres	25 to 49 acres	50 acres or more	Farms	Acres harvested
Conterminous United States	**15 290**	**1 673 353**	**4 138**	**2 908**	**1 214**	**1 922**	**5 108**	**2 361**	**156 721**
17 Western States, Arkansas, Florida, and Louisiana	**10 174**	**1 409 179**	**2 636**	**1 784**	**662**	**1 469**	**3 623**	**274**	**45 976**
Arizona	225	44 074	75	30	9	24	87	-	-
Arkansas	222	922	123	99	-	-	-	-	-
California	2 803	745 924	451	452	107	267	1 526	4	1 640
Colorado	507	37 767	163	155	72	33	84	-	-
Florida	1 079	189 502	299	141	66	123	450	49	6 223
Idaho	681	37 670	30	102	191	203	155	-	-
Kansas	136	873	74	62	-	-	-	-	-
Louisiana	114	685	56	58	-	-	-	21	42
Montana	138	265	136	2	-	-	-	-	-
Nebraska	74	52	73	-	-	1	-	-	-
Nevada	37	3 868	19	1	-	4	13	-	-
New Mexico	657	24 461	447	24	34	47	105	-	-
North Dakota	29	193	18	2	9	-	-	18	86
Oklahoma	120	2 075	81	12	-	23	4	-	-
Oregon	900	98 424	74	61	73	232	460	10	6 573
South Dakota	45	1 399	1	-	15	29	-	-	-
Texas	921	147 683	128	253	-	158	382	165	31 342
Utah	499	7 892	245	78	27	127	22	-	-
Washington	975	65 394	142	241	59	198	335	7	70
Wyoming	12	56	1	11	-	-	-	-	-
All other States	**5 116**	**264 174**	**1 502**	**1 124**	**552**	**453**	**1 485**	**2 087**	**110 745**
Water resources areas:									
WRA 01 New England	398	6 651	177	89	37	54	41	185	3 562
WRA 02 Mid-Atlantic	1 487	73 204	218	377	248	169	475	432	30 535
WRA 03 South Atlantic-Gulf	2 170	211 969	719	580	190	144	537	618	7 894
WRA 04 Great Lakes	989	66 903	249	156	104	154	326	398	43 063
WRA 05 Ohio	398	9 482	237	40	32	50	39	134	2 931
WRA 06 Tennessee	140	1 555	100	22	7	5	6	32	401
WRA 07 Upper Mississippi	596	83 871	85	-	-	-	511	307	28 445
WRA 08 Lower Mississippi	337	1 612	179	158	-	-	-	43	115
WRA 09 Souris-Red-Rainy	33	181	24	-	9	-	-	16	80
WRA 10 Missouri	576	12 341	269	175	48	63	21	10	70
WRA 11 Arkansas-White-Red	273	11 289	81	69	39	23	61	-	-
WRA 12 Texas-Gulf	753	74 988	194	119	12	147	281	165	31 342
WRA 13 Rio Grande	723	115 963	273	158	22	58	212	-	-
WRA 14 Upper Colorado	347	746	337	-	-	-	10	-	-
WRA 15 Lower Colorado	239	44 075	89	30	9	24	87	-	-
WRA 16 Great Basin	446	11 105	184	79	27	131	25	-	-
WRA 17 Pacific Northwest	2 539	200 205	272	404	323	590	950	17	6 643
WRA 18 California	2 846	747 214	451	452	107	310	1 526	4	1 640

Table 16. **Crops Harvested From Irrigated Farms: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Land in orchards									Other crops			
	Irrigated							Nonirrigated		Irrigated		Nonirrigated	
			Farms by acres harvested										
	Farms	Acres harvested	Less than 5 acres	5 to 14 acres	15 to 24 acres	25 to 49 acres	50 acres or more	Farms	Acres harvested	Farms	Acres harvested	Farms	Acres harvested
Conterminous United States	**49 895**	**3 110 526**	**12 303**	**11 758**	**6 912**	**7 586**	**11 356**	**3 174**	**236 238**	**14 387**	**1 520 829**	**2 988**	**452 885**
17 Western States, Arkansas, Florida, and Louisiana	**47 463**	**3 020 714**	**11 385**	**11 185**	**6 619**	**7 253**	**11 021**	**1 732**	**151 991**	**11 278**	**1 343 345**	**1 950**	**344 220**
Arizona	920	64 238	360	164	135	84	177	–	–	135	29 630	–	–
Arkansas	141	1 490	70	–	71	–	–	158	3 008	66	443	30	1 711
California	30 185	1 959 638	6 003	6 505	4 733	4 923	8 021	353	54 283	4 079	335 506	163	33 238
Colorado	1 094	13 492	422	525	–	108	39	50	50	246	7 949	169	50 502
Florida	3 889	607 520	374	904	411	829	1 371	662	85 422	434	330 317	68	8 292
Idaho	259	11 175	143	29	–	–	87	–	–	1 017	78 970	60	1 950
Kansas	201	1 558	62	88	51	–	–	37	259	350	15 132	335	55 770
Louisiana	24	456	–	–	24	–	–	34	890	58	642	1	80
Montana	391	1 130	316	75	–	–	–	–	–	346	11 353	25	3 540
Nebraska	–	–	–	–	–	–	–	–	–	465	28 812	82	3 603
Nevada	62	1 280	47	5	–	5	5	–	–	58	15 483	–	–
New Mexico	978	17 328	625	179	89	57	28	9	225	129	18 631	6	300
North Dakota	17	13	17	–	–	–	–	12	20	44	4 116	131	38 029
Oklahoma	125	306	108	17	–	–	–	15	173	579	44 061	110	10 720
Oregon	1 213	44 764	521	298	94	66	234	323	6 762	836	100 254	208	68 828
South Dakota	2	8	2	–	–	–	–	12	120	50	2 956	94	28 023
Texas	1 469	86 268	638	569	54	1	207	2	(D)	860	173 417	359	31 331
Utah	1 015	19 837	488	277	40	111	99	–	–	122	11 708	–	–
Washington	5 464	190 173	1 177	1 549	917	1 068	753	65	(D)	1 327	127 740	109	8 303
Wyoming	14	41	12	1	–	1	–	–	–	77	6 225	–	–
All other States	**2 432**	**89 813**	**918**	**573**	**293**	**313**	**335**	**1 442**	**84 247**	**3 109**	**177 484**	**1 038**	**108 665**
Water resources areas:													
WRA 01 New England	96	722	73	13	–	2	8	53	936	538	12 611	25	547
WRA 02 Mid-Atlantic	314	8 961	91	73	–	120	30	169	15 859	236	6 820	145	14 006
WRA 03 South Atlantic-Gulf	4 887	665 210	719	1 209	536	852	1 571	1 197	113 160	1 361	417 261	586	63 952
WRA 04 Great Lakes	516	17 681	125	108	70	120	93	376	31 765	676	21 699	141	9 462
WRA 05 Ohio	117	823	83	22	6	3	3	108	3 860	128	3 210	91	6 583
WRA 06 Tennessee	50	192	34	15	–	–	1	23	275	15	339	6	74
WRA 07 Upper Mississippi	245	3 203	85	36	80	44	–	121	2 330	450	17 923	73	3 237
WRA 08 Lower Mississippi	181	2 184	72	1	107	1	–	218	5 143	128	13 124	31	1 791
WRA 09 Souris-Red-Rainy	34	33	34	–	–	–	–	16	12	88	15 296	78	37 418
WRA 10 Missouri	298	584	296	1	–	1	–	103	445	1 183	58 239	663	122 485
WRA 11 Arkansas-White-Red	645	4 570	264	330	51	–	–	38	403	920	66 870	353	59 875
WRA 12 Texas-Gulf	458	30 373	232	113	–	14	99	1	(D)	669	122 355	199	19 426
WRA 13 Rio Grande	1 779	71 186	965	497	143	41	133	10	(D)	258	63 134	–	–
WRA 14 Upper Colorado	940	12 318	375	418	–	108	39	–	–	64	1 784	57	1 710
WRA 15 Lower Colorado	1 135	66 606	480	209	135	131	180	–	–	135	29 630	–	–
WRA 16 Great Basin	845	19 223	372	257	40	72	104	–	–	163	26 647	–	–
WRA 17 Pacific Northwest	7 165	247 016	1 995	1 951	1 011	1 134	1 074	388	6 827	3 294	307 437	377	79 081
WRA 18 California	30 190	1 959 643	6 008	6 505	4 733	4 923	8 021	353	54 283	4 081	336 450	163	33 238

Table 17. Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Corn for grain or seed											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**41 737**	**7 745 419**	**1.4**	**16 068**	**3 281 038**	**1.1**	**20 334**	**2 589 007**	**1.7**	**11 210**	**3 653**	**4 097**
17 Western States, Arkansas, Florida, and Louisiana	**35 567**	**6 867 823**	**1.5**	**10 365**	**2 462 148**	**1.3**	**19 947**	**2 543 190**	**1.7**	**9 746**	**3 588**	**3 988**
Arizona	102	16 215	2.9	10	4 200	2.5	83	8 295	3.1	51	16	23
Arkansas	118	26 501	1.2	37	5 472	1.9	79	20 509	1.1	17	-	-
California	1 424	272 519	3.2	183	664	3.0	1 107	224 012	3.3	237	55	14
Colorado	4 017	749 766	1.7	922	403 765	1.6	2 715	204 754	1.9	1 708	551	620
Florida	214	45 602	1.0	190	23 835	.8	19	11 457	.9	46	31	21
Idaho	1 762	89 344	2.2	121	21 465	2.0	1 564	55 183	2.2	385	-	217
Kansas	2 709	575 729	1.6	780	222 627	1.7	1 565	246 980	1.6	527	325	308
Louisiana	29	2 688	.5	13	1 888	.3	16	800	1.0	-	-	-
Montana	165	13 561	2.2	-	-	-	110	12 713	2.2	22	-	22
Nebraska	17 958	3 873 138	1.1	6 151	1 333 298	1.0	8 409	1 288 919	1.3	4 513	2 147	1 850
Nevada	1	(D)	(D)	-	-	-	1	(D)	(D)	-	-	-
New Mexico	264	(D)	(D)	62	18 952	2.2	166	10 344	2.4	67	39	23
North Dakota	262	57 771	.9	247	54 569	.9	15	3 202	1.1	113	24	1
Oklahoma	65	14 609	2.0	31	4 900	1.9	25	7 438	2.0	36	13	12
Oregon	443	32 781	2.6	121	20 451	2.1	317	10 270	3.5	161	7	68
South Dakota	947	159 968	1.0	685	130 962	.9	232	20 546	1.3	365	39	60
Texas	3 227	665 781	1.8	448	109 445	1.6	2 180	323 581	1.6	842	260	451
Utah	549	26 061	2.2	57	1 229	2.1	492	24 832	2.2	153	27	45
Washington	778	154 515	2.5	242	97 144	2.5	420	33 944	2.5	375	42	185
Wyoming	533	49 746	2.0	65	7 282	1.6	432	35 341	2.2	128	12	68
All other States	**6 170**	**877 596**	**.7**	**5 703**	**818 890**	**.7**	**387**	**45 817**	**.9**	**1 464**	**65**	**109**
Water resources areas:												
WRA 01 New England	6	184	.3	6	184	.3	-	-	-	-	-	-
WRA 02 Mid-Atlantic	359	46 896	.6	359	46 896	.6	-	-	-	103	8	15
WRA 03 South Atlantic-Gulf	1 637	218 542	.7	1 611	195 623	.6	19	11 457	.9	370	33	80
WRA 04 Great Lakes	1 187	219 335	.7	1 178	218 912	.7	9	423	.7	365	28	1
WRA 05 Ohio	259	39 750	.6	249	38 910	.6	5	100	.7	87	6	3
WRA 06 Tennessee	24	793	.4	21	790	.4	3	(D)	.5	2	-	-
WRA 07 Upper Mississippi	1 911	281 946	.7	1 875	276 869	.7	-	-	-	474	20	15
WRA 08 Lower Mississippi	620	89 451	1.0	117	16 920	1.1	464	66 091	1.0	48	1	1
WRA 09 Souris-Red-Rainy	278	56 753	.9	277	55 053	.9	1	(D)	(D)	139	8	15
WRA 10 Missouri	24 559	5 043 899	1.2	8 623	1 993 221	1.1	11 857	1 617 717	1.4	6 725	2 848	2 622
WRA 11 Arkansas-White-Red	2 712	696 916	1.9	704	238 181	1.8	1 696	304 087	1.8	660	338	348
WRA 12 Texas-Gulf	2 176	384 740	1.8	310	53 296	1.3	1 370	160 638	1.7	446	172	310
WRA 13 Rio Grande	602	55 469	1.4	3	750	1.7	598	54 379	1.4	283	11	63
WRA 14 Upper Colorado	452	22 406	1.8	26	312	2.0	407	18 940	1.7	163	33	90
WRA 15 Lower Colorado	103	16 495	2.9	11	4 480	2.5	83	8 295	3.1	52	16	23
WRA 16 Great Basin	445	22 685	2.1	31	917	2.1	414	21 768	2.1	135	27	27
WRA 17 Pacific Northwest	2 983	276 640	2.4	484	139 060	2.4	2 301	99 397	2.4	921	49	470
WRA 18 California	1 424	272 519	3.2	183	664	3.0	1 107	224 012	3.3	237	55	14

Table 17. Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Corn for silage or green chop											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**13 525**	**916 386**	**1.9**	**3 580**	**215 232**	**1.1**	**9 275**	**555 945**	**2.2**	**2 945**	**939**	**1 530**
17 Western States, Arkansas, Florida, and Louisiana	**12 673**	**866 431**	**2.0**	**2 732**	**165 467**	**1.3**	**9 271**	**555 755**	**2.2**	**2 798**	**939**	**1 506**
Arizona	102	5 295	3.7	6	72	2.0	95	4 843	3.7	73	12	12
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	1 487	174 418	3.0	40	2 858	1.3	1 365	162 885	3.1	328	60	153
Colorado	1 368	121 657	2.0	89	20 407	1.4	1 183	71 229	2.0	366	162	196
Florida	21	5 370	1.2	8	3 000	1.7	8	770	1.0	4	4	4
Idaho	1 369	44 112	1.9	62	3 532	1.6	1 288	38 470	2.0	247	12	121
Kansas	776	64 108	1.3	155	14 326	1.3	551	38 402	1.3	132	162	126
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Montana	655	53 048	1.5	28	1 550	.9	607	51 098	1.5	232	143	179
Nebraska	3 040	165 781	1.4	1 383	46 376	1.3	1 506	52 409	1.1	682	175	307
Nevada	49	1 945	2.9	-	-	-	48	1 785	2.9	21	4	4
New Mexico	216	25 043	2.0	13	1 946	.6	162	14 218	2.2	83	39	26
North Dakota	136	11 506	1.0	90	6 428	.8	46	5 078	1.1	42	7	22
Oklahoma	36	10 560	1.5	17	5 656	1.0	19	4 904	2.1	15	2	13
Oregon	516	23 032	1.4	282	14 185	.8	164	5 392	3.0	33	4	13
South Dakota	280	17 589	.9	135	9 155	1.0	131	7 874	.8	37	14	14
Texas	322	35 101	1.8	97	10 821	2.0	174	18 057	1.6	147	4	53
Utah	1 569	50 207	2.2	113	8 130	1.8	1 427	41 397	2.3	184	89	191
Washington	303	24 618	2.4	156	11 538	1.8	132	10 760	3.2	121	33	34
Wyoming	428	33 041	1.9	58	5 487	1.1	365	26 184	2.1	51	13	38
All other States	**852**	**49 955**	**.5**	**848**	**49 765**	**.5**	**4**	**190**	**.6**	**147**	**-**	**24**
Water resources areas:												
WRA 01 New England	1	(D)	(D)	-	-	-	1	(D)	(D)	-	-	-
WRA 02 Mid-Atlantic	18	450	.2	18	450	.2	-	-	-	18	-	-
WRA 03 South Atlantic-Gulf	202	25 950	.7	189	23 580	.7	8	770	1.0	22	4	21
WRA 04 Great Lakes	155	5 663	.5	155	5 663	.5	-	-	-	29	-	-
WRA 05 Ohio	5	120	.5	5	120	.5	-	-	-	-	-	-
WRA 06 Tennessee	9	(D)	.3	7	268	.3	2	(D)	(D)	2	-	-
WRA 07 Upper Mississippi	270	6 891	.5	270	6 891	.5	-	-	-	44	-	-
WRA 08 Lower Mississippi	1	(D)	(D)	-	-	-	1	(D)	(D)	-	-	-
WRA 09 Souris-Red-Rainy	99	3 409	.5	94	3 079	.4	5	330	1.0	43	7	14
WRA 10 Missouri	5 893	389 508	1.5	1 965	104 612	1.2	3 664	196 549	1.6	1 389	546	737
WRA 11 Arkansas-White-Red	903	112 790	1.6	136	25 550	1.5	621	56 367	1.6	228	94	169
WRA 12 Texas-Gulf	138	10 369	1.3	54	3 854	1.0	59	2 204	1.5	58	12	3
WRA 13 Rio Grande	166	18 447	2.0	-	-	-	159	16 665	2.0	71	29	17
WRA 14 Upper Colorado	536	32 079	2.4	14	5 650	2.0	515	25 793	2.5	87	68	149
WRA 15 Lower Colorado	105	5 505	3.6	6	72	2.0	98	5 053	3.6	73	12	12
WRA 16 Great Basin	1 331	38 632	2.2	100	2 780	1.5	1 202	35 132	2.2	151	58	86
WRA 17 Pacific Northwest	2 206	91 697	1.9	527	29 805	1.3	1 575	54 007	2.3	402	49	169
WRA 18 California	1 487	174 418	3.0	40	2 858	1.3	1 365	162 885	3.1	328	60	153

Table 17. **Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Sorghum for grain or seed											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**12 631**	**1 724 781**	**1.2**	**2 872**	**331 051**	**.9**	**8 599**	**1 054 138**	**1.3**	**1 817**	**577**	**974**
17 Western States, Arkansas, Florida, and Louisiana	**12 013**	**1 671 546**	**1.2**	**2 551**	**311 353**	**.9**	**8 377**	**1 033 175**	**1.3**	**1 800**	**562**	**959**
Arizona	128	20 938	4.1	-	-	-	126	20 578	4.1	82	6	10
Arkansas	615	77 893	1.0	33	10 400	.2	528	43 453	.8	92	1	76
California	333	42 400	1.9	7	3 336	1.7	288	36 067	1.9	68	20	24
Colorado	660	83 666	1.1	126	11 104	.4	511	71 857	1.2	214	83	99
Florida	38	3 806	.8	32	3 434	.7	5	300	.8	6	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	3 325	571 197	1.3	856	139 935	1.0	2 145	288 338	1.2	505	251	387
Louisiana	2	(D)	(D)	1	(D)	(D)	-	-	-	-	-	-
Montana	14	2 324	.8	-	-	-	-	-	-	-	-	-
Nebraska	2 671	149 815	.8	724	43 172	.7	1 583	75 395	1.0	-	-	-
Nevada	5	275	3.0	-	-	-	-	-	-	-	-	-
New Mexico	393	46 650	1.6	89	15 735	1.4	286	26 441	1.9	119	9	54
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	424	76 225	1.4	158	16 940	1.2	198	(D)	1.3	100	46	51
Oregon	8	(D)	2.0	8	(D)	2.0	-	-	-	-	-	-
South Dakota	9	1 125	.3	9	1 125	.3	-	-	-	-	-	-
Texas	3 376	593 305	1.2	497	64 490	.8	2 706	445 025	1.3	614	146	258
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	12	472	1.2	11	352	.6	1	(D)	(D)	-	-	-
All other States	**618**	**53 235**	**.6**	**321**	**19 698**	**.7**	**222**	**20 963**	**.4**	**17**	**15**	**15**
Water resources areas:												
WRA 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
WRA 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-
WRA 03 South Atlantic-Gulf	116	6 736	.7	110	6 364	.7	5	300	.8	6	-	-
WRA 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-	-
WRA 05 Ohio	3	(D)	.9	3	(D)	.9	-	-	-	2	-	-
WRA 06 Tennessee	5	182	.3	5	182	.3	-	-	-	2	2	2
WRA 07 Upper Mississippi	1	(D)	(D)	1	(D)	(D)	-	-	-	-	-	-
WRA 08 Lower Mississippi	960	116 436	.8	116	19 470	.4	748	61 621	.7	105	14	89
WRA 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-
WRA 10 Missouri	3 660	212 098	.8	1 016	62 075	.8	2 221	110 526	1.0	191	79	97
WRA 11 Arkansas-White-Red	5 183	1 092 985	1.2	1 104	190 560	1.0	3 556	654 530	1.2	940	404	574
WRA 12 Texas-Gulf	1 838	162 107	1.2	501	47 931	.9	1 268	102 726	1.4	326	49	122
WRA 13 Rio Grande	370	67 983	1.6	-	-	-	367	66 282	1.6	94	3	56
WRA 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
WRA 15 Lower Colorado	149	22 685	4.0	1	(D)	(D)	146	22 086	4.0	83	6	10
WRA 16 Great Basin	5	275	3.0	-	-	-	-	-	-	-	-	-
WRA 17 Pacific Northwest	8	800	2.0	8	800	2.0	-	-	-	-	-	-
WRA 18 California	333	42 400	1.9	7	3 336	1.7	288	36 067	1.9	68	20	24

Table 17. **Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Wheat for grain											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**24 836**	**3 990 105**	**1.4**	**9 155**	**1 531 174**	**1.2**	**12 808**	**1 794 819**	**1.6**	**6 227**	**719**	**2 393**
17 Western States, Arkansas, Florida, and Louisiana	**24 358**	**3 938 450**	**1.4**	**8 744**	**1 492 106**	**1.2**	**12 742**	**1 782 682**	**1.6**	**6 170**	**719**	**2 392**
Arizona	471	119 662	3.5	7	1 100	2.9	457	115 442	3.5	339	28	73
Arkansas	73	17 053	.5	1	(D)	(D)	43	5 820	.9	–	–	–
California	1 905	521 237	2.0	236	55 518	1.5	1 489	410 574	2.1	770	129	270
Colorado	1 915	235 157	1.1	580	80 820	1.1	1 033	101 680	1.2	587	125	365
Florida	12	3 921	.6	12	(D)	.6	–	–	–	1	–	–
Idaho	5 146	572 207	1.5	1 913	379 052	1.3	2 453	99 318	2.0	1 400	114	758
Kansas	2 623	599 606	1.0	810	149 288	.9	1 495	331 936	1.1	275	–	1
Louisiana	15	3 600	1.4	15	3 600	1.4	–	–	–	–	–	–
Montana	1 325	145 658	1.3	452	57 616	1.0	730	60 279	1.6	323	51	196
Nebraska	1 141	122 296	.7	906	113 346	.7	230	7 300	1.0	334	–	–
Nevada	104	14 659	2.5	22	4 441	1.3	81	10 173	3.0	49	17	29
New Mexico	543	92 980	1.4	233	39 515	1.2	237	31 653	1.5	158	17	26
North Dakota	103	11 551	1.1	34	2 587	.6	69	8 964	1.3	10	–	–
Oklahoma	652	123 102	1.1	356	44 229	1.0	196	42 594	1.1	173	39	57
Oregon	1 470	139 403	1.7	754	97 177	1.4	626	27 291	2.6	241	8	137
South Dakota	114	8 790	.5	105	8 610	.5	9	180	.6	9	–	9
Texas	4 050	885 463	1.0	1 015	217 911	1.1	2 350	472 588	1.0	860	98	197
Utah	947	35 729	2.0	264	15 874	1.7	653	17 737	2.3	77	27	56
Washington	1 551	272 478	1.7	982	209 961	1.5	444	32 863	2.1	528	66	217
Wyoming	198	13 898	1.7	47	6 167	1.9	147	6 290	1.3	36	–	1
All other States	**478**	**51 655**	**.4**	**411**	**39 068**	**.3**	**66**	**12 137**	**.5**	**57**	**–**	**1**
Water resources areas:												
WRA 01 New England	–	–	–	–	–	–	–	–	–	–	–	–
WRA 02 Mid-Atlantic	13	510	.3	13	510	.3	–	–	–	1	–	–
WRA 03 South Atlantic-Gulf	209	28 917	.4	208	28 467	.4	–	–	–	50	–	1
WRA 04 Great Lakes	43	670	.3	43	670	.3	–	–	–	–	–	–
WRA 05 Ohio	9	372	.3	9	372	.3	–	–	–	2	–	–
WRA 06 Tennessee	2	16	.1	2	16	.1	–	–	–	–	–	–
WRA 07 Upper Mississippi	52	7 355	.4	52	7 355	.4	–	–	–	2	–	–
WRA 08 Lower Mississippi	242	37 910	.6	104	10 093	.7	109	17 957	.6	–	–	–
WRA 09 Souris-Red-Rainy	27	2 043	.4	27	2 043	.4	–	–	–	10	–	–
WRA 10 Missouri	4 151	474 210	1.0	1 946	258 426	.9	1 852	142 979	1.3	912	47	243
WRA 11 Arkansas-White-Red	5 524	1 429 728	1.1	1 263	320 216	1.0	3 436	810 651	1.0	1 202	209	299
WRA 12 Texas-Gulf	2 228	265 849	1.1	912	105 919	1.0	992	90 404	1.1	316	18	57
WRA 13 Rio Grande	280	38 783	1.6	160	19 667	1.5	70	12 144	2.2	134	–	158
WRA 14 Upper Colorado	301	12 306	1.4	62	434	1.0	186	7 695	1.7	92	33	73
WRA 15 Lower Colorado	478	122 453	3.5	8	1 188	2.8	460	115 745	3.5	343	28	73
WRA 16 Great Basin	1 039	49 926	2.1	318	20 795	1.6	691	27 198	2.5	157	76	116
WRA 17 Pacific Northwest	8 220	992 247	1.5	3 693	694 577	1.4	3 509	158 807	2.1	2 231	179	1 099
WRA 18 California	2 018	526 810	2.0	335	60 426	1.5	1 503	411 239	2.1	775	129	274

Table 17. Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Barley for grain											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**18 318**	**1 725 733**	**1.6**	**6 394**	**805 118**	**1.3**	**10 008**	**668 901**	**1.9**	**3 245**	**413**	**2 207**
17 Western States, Arkansas, Florida, and Louisiana	**18 273**	**1 721 979**	**1.6**	**6 349**	**801 364**	**1.3**	**10 008**	**668 901**	**1.9**	**3 232**	**413**	**2 207**
Arizona	242	34 880	3.3	28	8 847	2.7	207	23 744	3.5	164	27	46
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	998	215 607	1.7	238	66 922	1.4	619	108 622	1.9	207	28	140
Colorado	1 834	146 140	1.3	566	86 737	1.3	1 056	45 598	1.5	336	83	419
Florida	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	6 264	548 218	1.4	2 349	358 378	1.2	3 161	128 067	2.1	1 021	53	731
Kansas	268	21 732	1.2	19	2 432	2.8	248	18 300	1.0	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Montana	2 268	262 708	1.3	888	90 980	.9	1 115	114 030	1.6	468	125	412
Nebraska	159	18 970	.6	96	6 370	.8	-	-	-	2	-	-
Nevada	157	19 332	2.4	27	6 529	1.5	125	11 617	2.9	80	10	25
New Mexico	246	14 951	2.0	13	1 405	1.4	227	11 354	1.9	101	-	5
North Dakota	44	2 671	.6	39	2 451	.6	5	220	.9	14	-	7
Oklahoma	22	6 570	.9	-	-	-	5	350	2.0	12	-	-
Oregon	1 054	90 433	1.5	571	62 273	1.5	358	13 030	1.9	171	-	84
South Dakota	69	1 651	.5	14	795	.4	55	856	.7	-	-	-
Texas	204	25 383	1.0	112	7 690	1.3	90	17 308	.8	148	44	44
Utah	2 965	142 631	1.9	828	34 770	1.6	1 929	86 574	2.0	276	43	179
Washington	617	63 283	1.6	431	53 503	1.6	136	6 824	1.7	129	-	70
Wyoming	862	106 819	2.2	130	11 282	.8	672	82 407	2.3	103	-	45
All other States	**45**	**3 754**	**.3**	**45**	**3 754**	**.3**	**-**	**-**	**-**	**13**	**-**	**-**
Water resources areas:												
WRA 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
WRA 02 Mid-Atlantic	29	2 701	.2	29	2 701	.2	-	-	-	1	-	-
WRA 03 South Atlantic-Gulf	-	-	-	-	-	-	-	-	-	-	-	-
WRA 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-	-
WRA 05 Ohio	2	(D)	(D)	2	(D)	(D)	-	-	-	-	-	-
WRA 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
WRA 07 Upper Mississippi	2	(D)	(D)	2	(D)	(D)	-	-	-	1	-	-
WRA 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
WRA 09 Souris-Red-Rainy	35	1 788	.5	35	1 788	.5	-	-	-	18	-	-
WRA 10 Missouri	3 459	396 296	1.5	788	90 709	.9	2 310	224 983	1.8	535	102	442
WRA 11 Arkansas-White-Red	516	41 088	1.3	28	3 512	2.3	468	29 971	1.3	75	50	51
WRA 12 Texas-Gulf	182	21 797	1.1	112	7 690	1.3	68	13 767	1.0	145	44	44
WRA 13 Rio Grande	644	94 767	1.5	311	74 293	1.4	281	13 582	1.7	237	-	213
WRA 14 Upper Colorado	853	31 782	1.6	277	9 994	1.1	357	10 287	2.5	130	33	85
WRA 15 Lower Colorado	402	55 922	2.9	57	9 808	3.0	338	43 825	2.9	201	27	46
WRA 16 Great Basin	3 307	165 558	1.7	1 110	65 422	1.3	1 967	76 941	2.1	325	85	235
WRA 17 Pacific Northwest	7 653	663 256	1.5	3 189	441 163	1.2	3 587	146 169	2.1	1 341	44	941
WRA 18 California	1 234	249 744	1.7	454	97 004	1.5	632	109 376	1.9	236	28	150

Table 17. **Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Soybeans for beans											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**18 244**	**2 439 707**	**.8**	**7 760**	**870 561**	**.7**	**8 923**	**1 250 493**	**.8**	**746**	**175**	**820**
17 Western States, Arkansas, Florida, and Louisiana	**14 239**	**1 844 905**	**.8**	**4 844**	**522 481**	**.8**	**8 008**	**1 076 189**	**.8**	**704**	**172**	**787**
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	2 482	728 651	.8	190	76 275	.9	2 194	623 626	.8	227	53	157
California	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	126	13 072	1.3	37	5 024	.9	67	2 548	2.4	22	-	22
Florida	39	9 940	.6	24	8 740	.6	15	1 200	1.0	1	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	1 955	190 206	1.3	659	77 518	1.3	1 047	77 207	1.3	77	71	160
Louisiana	202	50 365	.9	89	22 960	1.1	109	20 765	.7	-	36	36
Montana	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	8 529	768 938	.7	3 541	300 154	.7	3 998	306 242	.7	342	1	394
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	14	386	2.6	-	-	-	14	(D)	(D)	10	-	-
North Dakota	32	3 144	.8	31	2 744	.7	1	(D)	(D)	11	5	5
Oklahoma	65	10 130	1.6	15	3 800	1.1	40	3 450	2.2	7	-	5
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	224	23 383	.6	205	21 276	.6	18	1 980	.6	4	2	3
Texas	571	46 690	1.6	53	3 990	.9	505	38 385	1.7	3	4	5
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
All other States	**4 005**	**594 802**	**.6**	**2 916**	**348 080**	**.5**	**915**	**174 304**	**.6**	**42**	**3**	**33**
Water resources areas:												
WRA 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
WRA 02 Mid-Atlantic	296	21 046	.4	296	21 046	.4	-	-	-	1	-	-
WRA 03 South Atlantic-Gulf	684	117 110	.5	667	115 442	.5	15	1 200	1.0	3	1	20
WRA 04 Great Lakes	538	36 394	.5	528	36 014	.5	-	-	-	-	-	1
WRA 05 Ohio	129	12 764	.4	124	12 368	.4	3	210	.3	9	-	-
WRA 06 Tennessee	4	261	.6	4	261	.6	-	-	-	-	-	-
WRA 07 Upper Mississippi	870	89 789	.6	835	84 714	.6	-	-	-	23	-	1
WRA 08 Lower Mississippi	3 642	1 037 069	.8	495	148 970	.8	2 954	789 256	.8	227	91	196
WRA 09 Souris-Red-Rainy	49	4 706	.8	48	4 306	.7	1	400	1.4	19	5	13
WRA 10 Missouri	9 621	866 804	.7	4 089	363 789	.7	4 381	326 166	.7	387	40	476
WRA 11 Arkansas-White-Red	1 912	216 781	1.2	623	80 411	1.3	1 132	102 818	1.2	65	37	111
WRA 12 Texas-Gulf	439	34 217	1.6	51	3 240	.8	377	27 677	1.8	2	1	2
WRA 13 Rio Grande	50	2 496	2.9	-	-	-	50	2 496	2.9	-	-	-
WRA 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
WRA 15 Lower Colorado	10	270	3.0	-	-	-	10	270	3.0	10	-	-
WRA 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
WRA 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-	-
WRA 18 California	-	-	-	-	-	-	-	-	-	-	-	-

Table 17. Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Beans, dry edible											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**6 899**	**641 436**	**1.7**	**1 935**	**198 621**	**1.3**	**4 375**	**363 495**	**2.0**	**1 335**	**390**	**981**
17 Western States, Arkansas, Florida, and Louisiana	**6 731**	**619 356**	**1.8**	**1 774**	**177 766**	**1.4**	**4 375**	**363 495**	**2.0**	**1 327**	**390**	**981**
Arizona	1	(D)	(D)	-	-	-	-	-	-	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	1 114	155 825	2.3	149	12 611	2.1	782	124 967	2.4	91	91	36
Colorado	938	65 830	1.3	274	30 264	1.0	661	33 976	1.7	148	36	66
Florida	16	(D)	1.0	16	48	1.0	-	-	-	-	-	-
Idaho	2 077	150 981	2.2	349	35 180	2.2	1 417	79 273	2.3	315	88	295
Kansas	37	4 770	.4	36	4 320	.4	1	450	.5	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Montana	91	7 176	2.4	22	242	.3	69	6 934	2.4	44	22	44
Nebraska	1 313	141 224	.9	535	66 197	.9	771	66 382	.9	528	64	383
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	37	731	1.5	16	290	.5	21	441	2.1	1	-	1
North Dakota	52	6 496	.7	37	5 116	.7	15	1 380	.7	13	5	-
Oklahoma	16	1 595	.9	11	880	1.0	5	715	.8	16	11	16
Oregon	99	6 822	2.4	46	3 999	2.2	53	2 823	2.6	19	-	19
South Dakota	25	1 415	.6	11	845	.5	13	455	.5	2	1	1
Texas	-	-	-	-	-	-	-	-	-	-	-	-
Utah	27	1 080	2.5	-	-	-	27	1 080	2.5	27	27	27
Washington	439	36 462	2.2	261	16 839	1.8	115	9 372	2.3	94	45	63
Wyoming	449	38 532	2.1	11	935	1.5	425	35 247	2.1	29	-	30
All other States	**168**	**22 080**	**.5**	**161**	**20 855**	**.5**	**-**	**-**	**-**	**8**	**-**	**-**
Water resources areas:												
WRA 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
WRA 02 Mid-Atlantic	20	420	.2	20	420	.2	-	-	-	-	-	-
WRA 03 South Atlantic-Gulf	16	48	1.0	16	48	1.0	-	-	-	-	-	-
WRA 04 Great Lakes	116	13 957	.4	109	12 732	.4	-	-	-	-	-	-
WRA 05 Ohio	9	(D)	.3	9	45	.3	-	-	-	-	-	-
WRA 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
WRA 07 Upper Mississippi	5	3 370	.5	5	3 370	.5	-	-	-	3	-	-
WRA 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
WRA 09 Souris-Red-Rainy	39	8 842	.7	38	8 142	.7	1	(D)	(D)	12	5	-
WRA 10 Missouri	2 771	254 852	1.2	883	102 501	.9	1 864	139 651	1.4	724	90	491
WRA 11 Arkansas-White-Red	73	5 243	1.7	11	(D)	1.0	62	4 363	1.8	16	11	16
WRA 12 Texas-Gulf	1	(D)	(D)	1	(D)	(D)	-	-	-	1	-	1
WRA 13 Rio Grande	59	2 035	1.4	38	1 594	1.2	21	(D)	2.1	-	-	-
WRA 14 Upper Colorado	33	825	2.0	-	-	-	33	825	2.0	33	33	33
WRA 15 Lower Colorado	1	(D)	(D)	-	-	-	-	-	-	-	-	-
WRA 16 Great Basin	27	1 080	2.5	-	-	-	27	1 080	2.5	27	27	27
WRA 17 Pacific Northwest	2 615	194 265	2.2	656	56 018	2.1	1 585	91 468	2.3	428	133	377
WRA 18 California	1 114	155 825	2.3	149	12 611	2.1	782	124 967	2.4	91	91	36

Table 17. **Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Rice											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**8 492**	**2 306 637**	**2.9**	**-**	**-**	**-**	**8 492**	**2 306 637**	**2.9**	**2 110**	**559**	**1 635**
17 Western States, Arkansas, Florida, and Louisiana	**7 913**	**2 130 800**	**2.9**	**-**	**-**	**-**	**7 913**	**2 130 800**	**2.9**	**2 055**	**539**	**1 578**
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	4 103	942 002	2.0	-	-	-	4 103	942 002	2.0	989	53	653
California	1 274	452 673	5.7	-	-	-	1 274	452 673	5.7	445	337	574
Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Florida	8	3 838	2.9	-	-	-	8	3 838	2.9	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	1 828	449 471	1.9	-	-	-	1 828	449 471	1.9	545	148	298
Montana	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Texas	700	282 816	3.1	-	-	-	700	282 816	3.1	76	1	53
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
All other States	**579**	**175 837**	**2.2**	**-**	**-**	**-**	**579**	**175 837**	**2.2**	**55**	**20**	**57**
Water resources areas:												
WRA 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
WRA 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-
WRA 03 South Atlantic-Gulf	8	3 838	2.9	-	-	-	8	3 838	2.9	-	-	-
WRA 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-	-
WRA 05 Ohio	-	-	-	-	-	-	-	-	-	-	-	-
WRA 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
WRA 07 Upper Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
WRA 08 Lower Mississippi	6 061	1 466 270	2.0	-	-	-	6 061	1 466 270	2.0	1 501	221	936
WRA 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-
WRA 10 Missouri	-	-	-	-	-	-	-	-	-	-	-	-
WRA 11 Arkansas-White-Red	449	101 040	2.1	-	-	-	449	101 040	2.1	88	-	72
WRA 12 Texas-Gulf	700	282 816	3.1	-	-	-	700	282 816	3.1	76	1	53
WRA 13 Rio Grande	-	-	-	-	-	-	-	-	-	-	-	-
WRA 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
WRA 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-	-
WRA 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
WRA 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-	-
WRA 18 California	1 274	452 673	5.7	-	-	-	1 274	452 673	5.7	445	337	574

Table 17. **Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Other small grains (oats, rye, etc.)											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**6 883**	**278 515**	**1.3**	**2 508**	**109 451**	**1.1**	**3 870**	**141 273**	**1.5**	**629**	**132**	**476**
17 Western States, Arkansas, Florida, and Louisiana	**6 676**	**265 639**	**1.3**	**2 305**	**96 587**	**1.2**	**3 866**	**141 261**	**1.5**	**622**	**132**	**475**
Arizona	40	4 597	2.7	11	870	3.4	29	3 727	2.5	19	-	-
Arkansas	20	2 420	.3	-	-	-	20	2 420	.3	-	-	-
California	585	59 480	1.5	179	9 188	1.2	393	48 295	1.5	69	2	62
Colorado	872	27 607	1.1	116	2 924	1.4	684	13 310	1.4	160	37	228
Florida	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	780	21 529	1.5	256	12 864	1.2	383	6 869	2.3	59	-	30
Kansas	144	5 883	1.0	34	2 275	.6	90	2 908	1.3	1	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Montana	546	17 788	1.4	188	9 547	1.5	297	6 689	1.2	76	-	1
Nebraska	604	18 860	.8	492	17 252	.7	108	1 512	1.2	1	-	-
Nevada	109	3 586	3.1	17	824	2.8	91	2 742	3.2	16	-	-
New Mexico	271	7 437	1.4	15	300	3.8	231	6 279	1.2	4	3	5
North Dakota	35	1 542	.7	24	992	.5	11	550	.9	-	-	-
Oklahoma	53	5 336	1.5	35	5 000	1.6	18	336	.3	-	-	-
Oregon	320	12 537	1.5	172	6 521	1.3	111	4 123	1.7	77	-	37
South Dakota	177	9 178	.8	82	6 057	.8	95	3 121	.7	-	-	-
Texas	536	23 501	.9	234	10 189	.8	258	11 044	1.0	-	-	-
Utah	837	14 018	1.7	188	1 693	1.7	628	11 485	1.7	48	46	46
Washington	218	9 000	1.8	169	6 166	2.0	25	586	1.2	45	-	31
Wyoming	529	21 340	1.4	93	3 925	1.5	394	15 265	1.3	47	44	35
All other States	**207**	**12 876**	**.6**	**203**	**12 864**	**.6**	**4**	**12**	**1.0**	**7**	**-**	**1**
Water resources areas:												
WRA 01 New England	4	12	1.0	-	-	-	4	12	1.0	-	-	-
WRA 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-
WRA 03 South Atlantic-Gulf	92	5 268	.1	92	5 268	.1	-	-	-	2	-	1
WRA 04 Great Lakes	28	344	.3	28	344	.3	-	-	-	-	-	-
WRA 05 Ohio	-	-	-	-	-	-	-	-	-	-	-	-
WRA 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
WRA 07 Upper Mississippi	73	6 857	1.0	73	6 857	1.0	-	-	-	-	-	-
WRA 08 Lower Mississippi	20	2 420	.3	-	-	-	20	2 420	.3	-	-	-
WRA 09 Souris-Red-Rainy	22	1 055	.6	22	1 055	.6	-	-	-	5	-	-
WRA 10 Missouri	2 043	68 034	1.1	768	32 418	1.0	1 161	31 768	1.2	139	81	123
WRA 11 Arkansas-White-Red	511	20 116	1.3	117	7 899	1.2	335	9 816	1.5	51	-	50
WRA 12 Texas-Gulf	287	17 140	.9	186	9 565	.8	101	7 575	1.1	-	-	-
WRA 13 Rio Grande	255	7 914	1.4	16	685	2.8	229	6 504	1.2	4	3	17
WRA 14 Upper Colorado	891	25 751	1.1	211	3 287	1.5	574	9 601	1.7	103	25	103
WRA 15 Lower Colorado	88	4 993	2.7	11	870	3.4	77	4 123	2.5	19	-	-
WRA 16 Great Basin	478	10 407	1.8	62	1 162	2.4	415	9 225	1.7	39	21	21
WRA 17 Pacific Northwest	1 399	44 473	1.6	654	27 512	1.4	543	11 024	2.1	194	-	95
WRA 18 California	692	63 731	1.4	268	12 529	1.2	411	49 205	1.5	73	2	66

Table 17. Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Alfalfa and alfalfa mixtures for hay or dehydrating											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**61 646**	**5 399 610**	**2.3**	**21 654**	**1 829 601**	**2.0**	**34 079**	**2 652 141**	**2.6**	**7 931**	**2 339**	**2 062**
17 Western States, Arkansas, Florida, and Louisiana	**60 590**	**5 347 523**	**2.3**	**20 600**	**1 777 539**	**2.0**	**34 077**	**(D)**	**2.6**	**7 889**	**2 339**	**2 049**
Arizona	1 184	114 581	5.2	152	16 510	4.5	991	92 243	5.3	433	67	202
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	4 936	824 517	3.8	1 547	176 088	2.9	3 072	559 856	4.2	1 071	340	595
Colorado	7 411	609 351	1.8	906	63 230	1.6	5 877	434 133	1.9	967	544	154
Florida	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	9 230	622 054	1.9	2 308	203 538	1.7	5 402	241 250	2.0	728	81	84
Kansas	1 803	228 762	1.6	995	142 794	1.4	668	54 006	2.1	123	114	45
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Montana	5 238	542 261	1.7	1 999	177 868	2.0	2 576	251 102	1.6	961	139	169
Nebraska	5 004	335 832	1.2	2 412	182 352	1.3	2 412	127 593	1.2	79	170	-
Nevada	1 274	228 002	3.2	278	62 030	2.7	913	125 773	3.4	183	90	59
New Mexico	3 674	197 425	2.8	410	36 733	2.5	3 069	134 916	2.8	1 006	214	76
North Dakota	298	26 930	1.0	173	15 474	.8	108	(D)	1.2	47	-	7
Oklahoma	650	46 804	1.9	489	30 608	1.8	137	(D)	1.6	78	61	5
Oregon	3 990	323 362	2.2	2 273	171 642	2.1	1 124	65 274	2.3	339	8	250
South Dakota	909	97 741	1.0	400	28 976	.7	473	60 895	1.1	42	21	21
Texas	893	84 844	2.4	641	52 767	2.7	163	28 420	1.7	16	2	-
Utah	7 198	413 290	2.4	1 928	141 709	2.5	4 577	199 888	2.5	817	242	74
Washington	4 095	279 302	2.2	3 235	221 923	2.1	527	27 907	2.4	741	132	231
Wyoming	2 803	372 465	1.8	454	53 297	1.3	1 988	230 148	1.9	258	114	77
All other States	**1 056**	**52 087**	**.6**	**1 054**	**52 062**	**.6**	**2**	**(D)**	**(D)**	**42**	**-**	**13**
Water resources areas:												
WRA 01 New England	1	(D)	(D)	-	-	-	1	(D)	(D)	-	-	-
WRA 02 Mid-Atlantic	62	1 452	.8	62	(D)	.8	-	-	-	-	-	-
WRA 03 South Atlantic-Gulf	24	1 200	1.7	24	1 200	1.7	-	-	-	-	-	-
WRA 04 Great Lakes	237	13 760	.5	237	13 760	.5	-	-	-	20	-	13
WRA 05 Ohio	29	491	.6	29	491	.6	-	-	-	6	-	-
WRA 06 Tennessee	2	(D)	(D)	2	(D)	(D)	-	-	-	2	-	-
WRA 07 Upper Mississippi	602	31 366	.6	602	31 366	.6	-	-	-	-	-	-
WRA 08 Lower Mississippi	1	(D)	(D)	-	-	-	1	(D)	(D)	-	-	-
WRA 09 Souris-Red-Rainy	151	9 344	.6	151	9 344	.6	-	-	-	30	-	-
WRA 10 Missouri	15 584	1 436 340	1.5	5 078	442 915	1.5	9 177	743 531	1.5	1 362	638	233
WRA 11 Arkansas-White-Red	3 971	446 925	1.9	1 504	170 210	1.6	2 267	226 423	2.2	353	357	119
WRA 12 Texas-Gulf	407	38 404	2.4	338	34 238	2.4	10	(D)	2.3	50	16	3
WRA 13 Rio Grande	3 928	266 244	2.4	412	36 423	2.9	3 324	196 484	2.3	865	160	72
WRA 14 Upper Colorado	4 733	336 488	2.1	785	69 765	2.1	3 466	198 445	2.3	729	257	24
WRA 15 Lower Colorado	1 525	130 916	4.9	187	20 488	4.2	1 237	100 614	5.1	487	73	202
WRA 16 Great Basin	7 256	570 473	2.6	2 031	178 427	2.4	4 436	275 883	2.8	770	254	115
WRA 17 Pacific Northwest	17 830	1 253 716	2.1	8 369	613 595	1.9	7 065	346 347	2.2	2 143	238	681
WRA 18 California	5 303	862 426	3.8	1 843	205 887	2.8	3 095	563 336	4.2	1 114	346	600

Table 17. Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Other hay, including wild or native hay											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**23 001**	**2 685 642**	**1.8**	**5 834**	**233 869**	**1.5**	**14 798**	**2 102 538**	**1.8**	**2 030**	**166**	**406**
17 Western States, Arkansas, Florida, and Louisiana	**22 731**	**2 677 408**	**1.8**	**5 567**	**225 995**	**1.6**	**14 795**	**2 102 178**	**1.8**	**2 012**	**166**	**406**
Arizona	201	9 883	2.9	40	1 663	1.5	156	5 510	3.5	40	5	12
Arkansas	128	2 880	1.2	99	2 010	1.5	29	870	.5	-	-	-
California	1 831	182 491	1.7	440	10 866	3.2	1 044	104 967	1.9	427	5	80
Colorado	3 700	506 771	1.8	348	22 351	1.3	3 241	470 075	1.8	400	77	88
Florida	147	11 667	1.2	84	2 120	.8	59	9 227	1.3	18	-	-
Idaho	1 839	149 099	1.2	383	16 297	1.3	1 351	121 415	1.2	69	1	-
Kansas	375	13 916	1.0	106	1 413	.6	269	12 503	1.0	47	45	45
Louisiana	61	2 419	2.3	61	2 419	2.3	-	-	-	-	-	-
Montana	2 003	334 744	2.1	535	26 301	1.8	1 293	243 083	2.2	167	-	91
Nebraska	888	58 850	1.5	176	6 430	.7	412	9 005	1.9	2	1	-
Nevada	552	222 392	2.2	61	7 505	2.5	445	194 092	2.2	43	4	4
New Mexico	721	42 823	1.6	93	6 174	1.5	529	34 479	1.6	79	3	3
North Dakota	41	3 905	1.7	19	1 655	1.5	22	2 250	1.8	-	-	-
Oklahoma	326	18 188	1.3	235	12 969	1.3	69	3 749	.7	26	12	6
Oregon	3 583	356 665	2.1	1 548	43 460	1.4	1 529	253 650	2.2	308	-	52
South Dakota	112	7 573	.8	13	1 350	.5	99	6 223	.9	-	-	-
Texas	1 448	66 826	1.1	204	14 685	1.1	1 111	43 447	1.3	119	-	-
Utah	2 085	123 276	1.9	253	10 707	2.6	1 592	104 361	1.9	70	-	1
Washington	1 179	48 326	1.7	799	26 478	1.3	258	16 181	2.0	66	-	-
Wyoming	1 511	514 714	1.4	70	9 142	1.3	1 287	467 091	1.4	131	13	24
All other States	**270**	**8 234**	**.3**	**267**	**7 874**	**.3**	**3**	**360**	**.9**	**18**	**-**	**-**
Water resources areas:												
WRA 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
WRA 02 Mid-Atlantic	28	1 280	.3	28	1 280	.3	-	-	-	16	-	-
WRA 03 South Atlantic-Gulf	345	17 578	.9	282	8 031	.4	59	9 227	1.3	18	-	-
WRA 04 Great Lakes	30	106	.4	30	106	.4	-	-	-	-	-	-
WRA 05 Ohio	3	360	.9	-	-	-	3	360	.9	-	-	-
WRA 06 Tennessee	3	(D)	1.0	3	27	1.0	-	-	-	2	-	-
WRA 07 Upper Mississippi	1	(D)	(D)	1	(D)	(D)	-	-	-	-	-	-
WRA 08 Lower Mississippi	53	3 030	1.9	24	2 160	2.5	29	870	.5	-	-	-
WRA 09 Souris-Red-Rainy	20	2 535	1.5	15	935	.7	5	1 600	2.0	-	-	-
WRA 10 Missouri	4 194	754 526	1.6	566	35 195	1.5	3 083	610 191	1.5	187	15	33
WRA 11 Arkansas-White-Red	1 877	148 861	1.9	510	25 633	1.2	1 235	115 517	2.1	287	79	73
WRA 12 Texas-Gulf	898	50 419	1.1	224	15 604	1.1	634	30 015	1.3	14	3	3
WRA 13 Rio Grande	1 152	147 097	1.8	101	8 770	1.4	925	134 509	1.9	65	-	12
WRA 14 Upper Colorado	2 806	400 180	1.7	195	7 703	1.7	2 523	369 876	1.7	350	54	61
WRA 15 Lower Colorado	281	13 989	2.7	40	1 663	1.5	236	9 616	2.9	44	5	12
WRA 16 Great Basin	2 287	367 268	1.9	318	18 547	2.5	1 677	315 448	1.9	84	4	5
WRA 17 Pacific Northwest	6 936	576 814	2.0	2 957	94 484	1.4	3 217	387 591	2.0	488	1	123
WRA 18 California	2 087	201 372	1.8	540	13 531	3.0	1 172	117 718	2.0	475	5	84

Table 17. **Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Cotton											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**11 138**	**3 500 304**	**2.1**	**1 825**	**507 994**	**1.2**	**8 364**	**2 455 600**	**2.2**	**2 289**	**884**	**1 142**
17 Western States, Arkansas, Florida, and Louisiana	**10 665**	**3 393 555**	**2.1**	**1 581**	**446 810**	**1.3**	**8 176**	**2 434 168**	**2.2**	**2 149**	**823**	**1 092**
Arizona	887	370 895	4.9	11	6 580	3.9	857	313 991	4.8	521	144	207
Arkansas	229	61 959	.8	–	–	–	208	54 609	.8	1	1	1
California	2 508	1 190 066	3.0	225	108 532	2.9	2 119	827 076	3.1	642	187	174
Colorado	–	–	–	–	–	–	–	–	–	–	–	–
Florida	5	140	.5	5	140	.5	–	–	–	–	–	–
Idaho	–	–	–	–	–	–	–	–	–	–	–	–
Kansas	–	–	–	–	–	–	–	–	–	–	–	–
Louisiana	304	71 009	.7	68	14 921	.5	193	29 231	.7	36	36	36
Montana	–	–	–	–	–	–	–	–	–	–	–	–
Nebraska	–	–	–	–	–	–	–	–	–	–	–	–
Nevada	–	–	–	–	–	–	–	–	–	–	–	–
New Mexico	706	73 246	2.4	79	7 552	1.6	580	58 992	2.5	253	54	129
North Dakota	–	–	–	–	–	–	–	–	–	–	–	–
Oklahoma	368	62 627	1.1	120	11 900	.5	226	46 271	1.1	27	22	22
Oregon	–	–	–	–	–	–	–	–	–	1	–	–
South Dakota	–	–	–	–	–	–	–	–	–	–	–	–
Texas	5 658	1 563 613	.9	1 073	297 185	.7	3 993	1 103 998	1.0	668	379	523
Utah	–	–	–	–	–	–	–	–	–	–	–	–
Washington	–	–	–	–	–	–	–	–	–	–	–	–
Wyoming	–	–	–	–	–	–	–	–	–	–	–	–
All other States	**473**	**106 749**	**.5**	**244**	**61 184**	**.6**	**188**	**21 432**	**.4**	**140**	**61**	**50**
Water resources areas:												
WRA 01 New England	–	–	–	–	–	–	–	–	–	–	–	–
WRA 02 Mid-Atlantic	–	–	–	–	–	–	–	–	–	–	–	–
WRA 03 South Atlantic-Gulf	162	(D)	.5	162	(D)	.5	–	–	–	78	–	–
WRA 04 Great Lakes	–	–	–	–	–	–	–	–	–	–	–	–
WRA 05 Ohio	–	–	–	–	–	–	–	–	–	–	–	–
WRA 06 Tennessee	1	(D)	(D)	1	(D)	(D)	–	–	–	–	–	–
WRA 07 Upper Mississippi	–	–	–	–	–	–	–	–	–	–	–	–
WRA 08 Lower Mississippi	807	213 635	.6	154	57 090	.6	548	98 205	.7	99	98	87
WRA 09 Souris-Red-Rainy	–	–	–	–	–	–	–	–	–	–	–	–
WRA 10 Missouri	–	–	–	–	–	–	–	–	–	–	–	–
WRA 11 Arkansas-White-Red	1 084	238 204	.9	216	18 860	.8	803	204 568	.9	27	22	22
WRA 12 Texas-Gulf	4 256	1 264 819	.9	1 001	295 489	.7	2 695	814 770	1.0	463	167	321
WRA 13 Rio Grande	1 387	198 351	1.7	54	2 111	2.1	1 297	191 988	1.7	445	263	328
WRA 14 Upper Colorado	–	–	–	–	–	–	–	–	–	–	–	–
WRA 15 Lower Colorado	933	376 074	4.9	12	6 757	3.8	902	318 993	4.7	534	147	210
WRA 16 Great Basin	–	–	–	–	–	–	–	–	–	–	–	–
WRA 17 Pacific Northwest	–	–	–	–	–	–	–	–	–	1	–	–
WRA 18 California	2 508	1 190 066	3.0	225	108 532	2.9	2 119	827 076	3.1	642	187	174

Table 17. **Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Sugar beets for sugar											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**3 935**	**502 383**	**2.6**	**784**	**118 774**	**2.2**	**2 747**	**311 485**	**2.7**	**869**	**406**	**534**
17 Western States, Arkansas, Florida, and Louisiana	**3 904**	**500 258**	**2.6**	**762**	**117 009**	**2.2**	**2 738**	**311 125**	**2.7**	**869**	**406**	**534**
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	668	155 483	3.5	40	4 068	2.3	492	125 961	3.5	169	16	121
Colorado	425	31 676	1.6	55	6 790	1.7	368	23 941	1.6	112	2	4
Florida	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	1 339	158 679	2.7	541	91 988	2.3	618	36 374	3.4	260	86	103
Kansas	1	(D)	(D)	-	-	-	1	(D)	(D)	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Montana	139	15 664	1.6	-	-	-	139	15 664	1.6	-	22	-
Nebraska	640	64 370	1.5	67	7 060	1.0	572	57 265	1.5	279	278	279
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota	63	(D)	2.0	-	-	-	63	(D)	2.0	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	166	8 649	3.5	10	(D)	3.2	147	6 129	3.6	27	-	19
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Texas	173	23 468	1.3	48	4 800	1.2	61	6 950	1.7	10	1	1
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	290	30 792	2.1	1	(D)	(D)	277	27 364	2.2	12	1	7
All other States	**31**	**2 125**	**.4**	**22**	**1 765**	**.4**	**9**	**360**	**.7**	**-**	**-**	**-**
Water resources areas:												
WRA 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
WRA 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-
WRA 03 South Atlantic-Gulf	-	-	-	-	-	-	-	-	-	-	-	-
WRA 04 Great Lakes	22	675	.6	13	315	.4	9	360	.7	-	-	-
WRA 05 Ohio	-	-	-	-	-	-	-	-	-	-	-	-
WRA 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
WRA 07 Upper Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
WRA 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
WRA 09 Souris-Red-Rainy	9	1 450	.3	9	1 450	.3	-	-	-	-	-	-
WRA 10 Missouri	1 558	153 979	1.7	123	14 560	1.3	1 420	135 711	1.7	403	303	290
WRA 11 Arkansas-White-Red	63	9 790	1.5	48	4 800	1.2	15	4 990	1.9	1	1	1
WRA 12 Texas-Gulf	110	13 678	1.1	-	-	-	46	1 960	1.2	9	-	-
WRA 13 Rio Grande	-	-	-	-	-	-	-	-	-	-	-	-
WRA 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
WRA 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-	-
WRA 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
WRA 17 Pacific Northwest	1 505	167 328	2.7	551	93 581	2.4	765	42 503	3.4	287	86	122
WRA 18 California	668	155 483	3.5	40	4 068	2.3	492	125 961	3.5	169	16	121

Table 17. Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Tobacco											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**3 693**	**49 184**	**.6**	**3 543**	**48 243**	**.6**	**15**	**191**	**.6**	**645**	**170**	**154**
17 Western States, Arkansas, Florida, and Louisiana	**128**	**3 249**	**.7**	**128**	**3 249**	**.7**	**-**	**-**	**-**	**-**	**-**	**-**
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Florida	128	3 249	.7	128	3 249	.7	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Texas	-	-	-	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
All other States	**3 565**	**45 935**	**.6**	**3 415**	**44 995**	**.6**	**15**	**191**	**.6**	**645**	**170**	**154**
Water resources areas:												
WRA 01 New England	5	580	.6	5	580	.6	-	-	-	1	-	-
WRA 02 Mid-Atlantic	103	608	.5	103	608	.5	-	-	-	36	-	-
WRA 03 South Atlantic-Gulf	2 010	36 427	.7	1 883	35 690	.7	-	-	-	221	102	102
WRA 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-	-
WRA 05 Ohio	1 409	11 100	.5	1 394	10 909	.5	15	191	.6	353	43	33
WRA 06 Tennessee	166	469	.5	158	456	.5	-	-	-	34	25	19
WRA 07 Upper Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
WRA 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
WRA 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-
WRA 10 Missouri	-	-	-	-	-	-	-	-	-	-	-	-
WRA 11 Arkansas-White-Red	-	-	-	-	-	-	-	-	-	-	-	-
WRA 12 Texas-Gulf	-	-	-	-	-	-	-	-	-	-	-	-
WRA 13 Rio Grande	-	-	-	-	-	-	-	-	-	-	-	-
WRA 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
WRA 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-	-
WRA 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
WRA 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-	-
WRA 18 California	-	-	-	-	-	-	-	-	-	-	-	-

Table 17. **Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Irish potatoes											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**5 267**	**766 808**	**1.8**	**3 672**	**617 635**	**1.8**	**1 070**	**74 230**	**1.9**	**2 333**	**731**	**1 111**
17 Western States, Arkansas, Florida, and Louisiana	**4 225**	**632 479**	**2.1**	**2 645**	**483 367**	**2.1**	**1 067**	**74 228**	**1.9**	**2 254**	**714**	**1 092**
Arizona	10	1 287	4.4	-	-	-	10	1 287	4.4	6	-	-
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	333	50 144	2.9	171	38 956	2.8	151	3 655	2.5	179	35	100
Colorado	534	86 549	1.5	267	69 067	1.6	226	5 592	1.3	285	133	147
Florida	114	30 594	.9	10	3 916	.6	92	23 853	.9	7	7	7
Idaho	1 755	260 906	2.1	1 309	218 273	2.0	209	16 844	2.3	976	287	380
Kansas	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Montana	199	9 425	2.4	199	9 425	2.4	-	-	-	73	-	23
Nebraska	81	5 255	1.2	8	4 160	1.4	73	1 095	.8	76	75	75
Nevada	27	10 027	2.7	19	8 224	2.6	7	1 367	2.6	22	13	10
New Mexico	79	1 513	1.8	4	1 475	1.8	-	-	-	4	-	3
North Dakota	12	1 266	1.1	12	1 266	1.1	-	-	-	-	-	-
Oklahoma	33	10	.9	33	10	.9	-	-	-	-	-	-
Oregon	435	51 069	2.4	307	42 385	2.1	110	5 047	3.3	258	53	96
South Dakota	2	(D)	(D)	2	(D)	(D)	-	-	-	-	-	-
Texas	90	18 237	1.4	2	(D)	(D)	4	3 530	1.6	41	40	41
Utah	104	8 251	2.6	3	2 065	2.2	101	6 186	2.8	57	28	56
Washington	408	96 631	2.5	298	83 355	2.5	77	5 730	2.7	269	43	154
Wyoming	9	(D)	1.7	1	(D)	(D)	7	42	2.5	1	-	-
All other States	**1 042**	**134 330**	**.7**	**1 027**	**134 268**	**.7**	**3**	**2**	**.5**	**79**	**17**	**19**
Water resources areas:												
WRA 01 New England	65	4 058	.3	65	4 058	.3	-	-	-	5	5	-
WRA 02 Mid-Atlantic	353	26 172	.4	353	26 172	.4	-	-	-	8	-	8
WRA 03 South Atlantic-Gulf	133	38 574	.8	29	11 896	.5	92	23 853	.9	7	7	7
WRA 04 Great Lakes	346	44 306	.7	334	44 246	.7	-	-	-	36	12	11
WRA 05 Ohio	67	1 797	.5	67	1 797	.5	-	-	-	14	-	-
WRA 06 Tennessee	10	238	.7	7	236	.7	3	2	.5	1	-	-
WRA 07 Upper Mississippi	172	48 660	1.0	172	48 660	1.0	-	-	-	15	-	-
WRA 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
WRA 09 Souris-Red-Rainy	21	2 105	.9	21	2 105	.9	-	-	-	-	-	-
WRA 10 Missouri	255	36 087	1.5	90	28 841	1.6	164	6 333	1.1	153	78	101
WRA 11 Arkansas-White-Red	77	8 710	1.3	33	10	.9	1	(D)	(D)	1	-	-
WRA 12 Texas-Gulf	48	7 812	1.4	6	1 905	1.7	1	(D)	(D)	45	40	44
WRA 13 Rio Grande	258	65 101	1.6	214	49 911	1.6	3	(D)	1.6	232	130	144
WRA 14 Upper Colorado	216	333	3.1	-	-	-	141	296	3.3	-	-	-
WRA 15 Lower Colorado	10	1 287	4.4	-	-	-	10	1 287	4.4	6	-	-
WRA 16 Great Basin	131	18 278	2.7	22	10 289	2.5	108	7 553	2.7	79	41	66
WRA 17 Pacific Northwest	2 649	403 731	2.2	1 965	339 137	2.1	396	27 621	2.6	1 446	383	613
WRA 18 California	456	59 560	2.7	294	48 372	2.7	151	3 655	2.5	285	35	117

Table 17. **Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Land in vegetables									Farms reporting application of chemicals in irrigation		
				Method of distribution								
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**15 290**	**1 673 353**	**2.2**	**8 159**	**588 842**	**1.3**	**5 173**	**595 705**	**2.8**	**3 410**	**847**	**998**
17 Western States, Arkansas, Florida, and Louisiana	**10 174**	**1 409 179**	**2.5**	**3 397**	**328 867**	**1.8**	**5 053**	**595 567**	**2.8**	**2 879**	**671**	**899**
Arizona	225	44 074	3.8	11	635	5.0	192	29 802	4.0	88	32	36
Arkansas	222	922	.5	123	335	.7	-	-	-	123	70	-
California	2 803	745 924	3.0	519	127 130	2.7	1 360	288 561	3.1	1 383	170	259
Colorado	507	37 767	2.2	1	(D)	(D)	491	17 187	2.1	168	-	80
Florida	1 079	189 502	1.7	600	45 006	1.1	290	87 543	2.0	209	127	89
Idaho	681	37 670	2.5	22	2 270	1.7	628	34 997	2.6	117	58	131
Kansas	136	873	4.9	62	651	6.0	37	148	2.0	-	-	-
Louisiana	114	685	1.0	113	680	1.0	-	-	-	-	-	-
Montana	138	265	1.2	96	230	1.0	22	33	2.0	1	1	-
Nebraska	74	52	1.5	1	(D)	(D)	73	7	.2	1	-	-
Nevada	37	3 868	4.7	-	-	-	31	2 258	5.2	5	5	5
New Mexico	657	24 461	3.7	149	(D)	2.3	415	22 784	3.8	284	92	94
North Dakota	29	193	.9	27	173	1.0	-	-	-	2	-	-
Oklahoma	120	2 075	1.1	71	190	1.5	28	677	1.3	4	29	12
Oregon	900	98 424	1.3	622	82 257	1.1	181	9 536	3.1	134	32	29
South Dakota	45	1 399	1.0	44	1 395	1.0	1	(D)	(D)	-	-	-
Texas	921	147 683	1.8	296	28 721	.3	523	76 307	2.3	72	3	2
Utah	499	7 892	2.7	107	96	1.7	392	7 796	2.7	118	-	50
Washington	975	65 394	2.4	533	38 756	2.1	377	17 870	3.1	170	52	112
Wyoming	12	56	3.0	-	-	-	12	(D)	3.0	-	-	-
All other States	**5 116**	**264 174**	**.6**	**4 762**	**259 975**	**.6**	**120**	**138**	**.8**	**531**	**176**	**99**
Water resources areas:												
WRA 01 New England	398	6 651	.5	347	6 168	.5	4	4	1.0	63	39	28
WRA 02 Mid-Atlantic	1 487	73 204	.5	1 375	71 918	.5	-	-	-	164	65	48
WRA 03 South Atlantic-Gulf	2 170	211 969	1.6	1 600	67 382	.9	381	87 634	2.0	301	127	89
WRA 04 Great Lakes	989	66 903	.5	923	64 648	.5	-	-	-	91	37	6
WRA 05 Ohio	398	9 482	.4	379	9 449	.4	19	33	.3	35	12	-
WRA 06 Tennessee	140	1 555	.5	126	1 508	.5	5	5	.6	16	10	3
WRA 07 Upper Mississippi	596	83 871	.7	596	83 871	.7	-	-	-	70	13	14
WRA 08 Lower Mississippi	337	1 612	.7	236	1 015	.9	1	5	.7	123	70	-
WRA 09 Souris-Red-Rainy	33	181	1.4	33	181	1.4	-	-	-	-	-	-
WRA 10 Missouri	576	12 341	1.6	187	2 343	2.4	330	9 902	1.4	170	1	80
WRA 11 Arkansas-White-Red	273	11 289	2.5	71	190	1.5	181	9 891	2.7	5	29	12
WRA 12 Texas-Gulf	753	74 988	.9	362	28 853	.3	285	20 426	1.3	130	2	8
WRA 13 Rio Grande	723	115 963	2.9	84	167	1.6	610	76 908	3.0	227	93	88
WRA 14 Upper Colorado	347	746	2.0	-	-	-	272	731	2.0	-	-	-
WRA 15 Lower Colorado	239	44 075	3.8	11	635	5.0	206	29 804	4.0	88	32	36
WRA 16 Great Basin	446	11 105	3.4	107	96	1.7	333	9 399	3.4	123	5	55
WRA 17 Pacific Northwest	2 539	200 205	1.9	1 160	122 000	1.4	1 186	62 403	2.8	421	142	272
WRA 18 California	2 846	747 214	3.0	562	128 420	2.7	1 360	288 561	3.1	1 383	170	259

Table 17. **Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Land in orchards									Farms reporting application of chemicals in irrigation		
				Method of distribution								
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**49 895**	**3 110 526**	**2.4**	**20 687**	**799 126**	**2.0**	**17 631**	**896 068**	**2.9**	**11 504**	**3 178**	**3 239**
17 Western States, Arkansas, Florida, and Louisiana	**47 463**	**3 020 714**	**2.5**	**19 134**	**751 218**	**2.1**	**17 621**	**895 990**	**2.9**	**11 427**	**3 037**	**3 223**
Arizona	920	64 238	5.0	47	405	2.6	706	41 337	5.6	483	53	88
Arkansas	141	1 490	.5	70	70	.2	-	-	-	70	70	-
California	30 185	1 959 638	2.8	11 091	447 724	2.3	12 319	695 436	2.9	8 471	1 850	2 212
Colorado	1 094	13 492	2.0	111	2 325	1.7	839	6 307	2.4	144	105	55
Florida	3 889	607 520	1.4	2 006	150 346	1.2	265	46 451	1.9	490	118	90
Idaho	259	11 175	3.4	99	488	.2	73	37	2.5	28	-	-
Kansas	201	1 558	1.1	44	220	.3	44	440	.9	-	-	-
Louisiana	24	456	.9	-	-	-	-	-	-	-	-	-
Montana	391	1 130	1.4	258	1 029	1.4	133	101	1.4	-	57	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-
Nevada	62	1 280	4.2	4	4	2.0	45	1 269	4.2	-	-	-
New Mexico	978	17 328	2.6	21	51	1.6	802	13 705	2.8	310	14	71
North Dakota	17	13	.7	17	13	.7	-	-	-	-	-	-
Oklahoma	125	306	3.3	57	80	1.2	-	-	-	-	-	-
Oregon	1 213	44 764	1.7	1 002	31 510	1.4	-	-	-	143	8	143
South Dakota	2	(D)	(D)	2	(D)	(D)	-	-	-	-	-	-
Texas	1 469	86 268	1.8	114	(D)	1.1	822	65 755	1.9	329	2	25
Utah	1 015	19 837	1.7	346	2 933	2.5	581	7 869	2.0	241	178	74
Washington	5 464	190 173	2.7	3 845	113 418	2.7	978	17 240	2.5	718	582	465
Wyoming	14	(D)	2.0	-	-	-	14	41	2.0	-	-	-
All other States	**2 432**	**89 813**	**1.2**	**1 553**	**47 908**	**.9**	**10**	**78**	**.4**	**77**	**141**	**16**
Water resources areas:												
WRA 01 New England	96	722	1.2	60	197	.4	8	8	1.1	23	13	-
WRA 02 Mid-Atlantic	314	8 961	1.6	215	3 744	.5	-	-	-	-	7	7
WRA 03 South Atlantic-Gulf	4 887	665 210	1.4	2 686	184 546	1.1	266	46 511	1.9	492	209	90
WRA 04 Great Lakes	516	17 681	.5	248	6 376	.5	-	-	-	38	7	-
WRA 05 Ohio	117	823	.6	89	673	.6	-	-	-	12	19	9
WRA 06 Tennessee	50	192	.8	30	47	1.6	-	-	-	2	4	-
WRA 07 Upper Mississippi	245	3 203	1.1	209	2 483	1.3	-	-	-	-	-	-
WRA 08 Lower Mississippi	181	2 184	.6	84	258	.8	1	(D)	(D)	70	70	-
WRA 09 Souris-Red-Rainy	34	33	1.0	25	15	.7	-	-	-	-	-	-
WRA 10 Missouri	298	584	1.2	83	184	1.2	90	(D)	2.1	-	-	-
WRA 11 Arkansas-White-Red	645	4 570	2.1	101	300	.5	257	1 661	2.8	168	50	-
WRA 12 Texas-Gulf	458	30 373	1.5	119	571	1.1	53	13 580	2.0	60	1	1
WRA 13 Rio Grande	1 779	71 186	2.1	16	75	1.5	1 492	65 569	2.1	461	15	95
WRA 14 Upper Colorado	940	12 318	1.9	111	2 325	1.7	706	5 166	2.1	94	55	55
WRA 15 Lower Colorado	1 135	66 606	4.9	72	555	2.4	893	43 255	5.5	552	78	113
WRA 16 Great Basin	845	19 223	1.8	325	2 787	2.5	438	7 452	2.3	172	153	49
WRA 17 Pacific Northwest	7 165	247 016	2.6	5 118	146 264	2.4	1 108	17 334	2.5	889	647	608
WRA 18 California	30 190	1 959 643	2.8	11 096	447 729	2.3	12 319	695 436	2.9	8 471	1 850	2 212

Table 17. Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Other crops											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**14 387**	**1 520 829**	**2.2**	**7 172**	**491 440**	**1.2**	**4 653**	**662 985**	**2.3**	**2 259**	**1 037**	**924**
17 Western States, Arkansas, Florida, and Louisiana	**11 278**	**1 343 345**	**2.4**	**4 313**	**345 628**	**1.4**	**4 533**	**641 319**	**2.3**	**2 029**	**498**	**831**
Arizona	135	29 630	2.3	20	1 491	4.1	87	15 205	2.8	66	21	28
Arkansas	66	443	.7	-	-	-	1	118	1.0	-	-	-
California	4 079	335 506	2.7	1 047	32 515	2.1	1 585	222 911	2.8	858	10	12
Colorado	246	7 949	1.2	26	2 079	1.3	199	4 530	1.3	2	1	1
Florida	434	330 317	3.3	227	6 373	1.3	92	180 513	2.0	58	18	2
Idaho	1 017	78 970	2.0	159	16 484	1.5	816	48 430	2.1	172	42	115
Kansas	350	15 132	.9	99	6 470	.6	194	8 114	1.1	1	-	-
Louisiana	58	642	.3	57	(D)	.3	-	-	-	-	-	-
Montana	346	11 353	.8	75	1 040	.9	174	4 088	1.0	-	22	-
Nebraska	465	28 812	1.3	111	10 318	1.2	215	5 849	1.9	297	79	289
Nevada	58	15 483	3.0	16	1 072	2.9	38	12 923	3.0	11	6	6
New Mexico	129	18 631	1.9	79	16 613	1.8	39	1 480	2.9	28	1	23
North Dakota	44	4 116	1.0	41	4 110	1.0	3	6	1.0	18	-	-
Oklahoma	579	44 061	1.3	500	38 222	1.1	62	3 859	3.2	29	33	49
Oregon	836	100 254	1.7	580	63 537	1.3	187	19 941	2.6	127	59	59
South Dakota	50	2 956	.7	28	2 373	.7	22	583	.9	1	-	-
Texas	860	173 417	1.5	569	89 113	1.2	188	53 742	1.9	86	3	51
Utah	122	11 708	1.6	-	-	-	122	11 708	1.6	-	-	-
Washington	1 327	127 740	2.2	678	53 431	1.7	445	41 869	2.6	274	203	195
Wyoming	77	6 225	2.3	1	(D)	(D)	64	5 450	2.6	1	-	1
All other States	**3 109**	**177 484**	**.9**	**2 859**	**145 812**	**.8**	**120**	**21 666**	**1.3**	**230**	**539**	**93**
Water resources areas:												
WRA 01 New England	538	12 611	1.9	466	10 191	1.8	12	252	1.9	92	281	34
WRA 02 Mid-Atlantic	236	6 820	1.8	226	2 902	1.4	-	-	-	9	25	-
WRA 03 South Atlantic-Gulf	1 361	417 261	2.7	1 153	93 177	.5	92	180 513	2.0	92	52	37
WRA 04 Great Lakes	676	21 699	.7	613	18 283	.8	5	500	.6	80	50	22
WRA 05 Ohio	128	3 210	.4	118	3 200	.4	10	10	.3	9	6	-
WRA 06 Tennessee	15	339	.6	15	339	.6	-	-	-	3	1	1
WRA 07 Upper Mississippi	450	17 923	2.0	449	17 059	2.1	-	-	-	3	142	1
WRA 08 Lower Mississippi	128	13 124	.6	57	342	.3	70	12 482	.6	-	-	-
WRA 09 Souris-Red-Rainy	88	15 296	1.8	64	6 756	1.1	24	8 540	2.4	18	-	-
WRA 10 Missouri	1 183	58 239	1.3	315	20 069	1.0	620	18 079	1.9	301	102	291
WRA 11 Arkansas-White-Red	920	66 870	1.2	587	49 922	1.0	219	12 685	1.7	33	33	50
WRA 12 Texas-Gulf	669	122 355	1.3	570	98 876	1.3	56	8 427	.8	81	3	57
WRA 13 Rio Grande	258	63 134	2.0	38	1 594	1.2	160	46 110	2.2	30	1	16
WRA 14 Upper Colorado	64	1 784	1.7	-	-	-	64	1 784	1.7	-	-	-
WRA 15 Lower Colorado	135	29 630	2.3	20	1 491	4.1	87	15 205	2.8	66	21	28
WRA 16 Great Basin	163	26 647	2.3	16	1 072	2.9	143	24 087	2.3	11	6	6
WRA 17 Pacific Northwest	3 294	307 437	2.0	1 416	132 708	1.5	1 506	111 400	2.3	573	304	369
WRA 18 California	4 081	336 450	2.6	1 049	33 459	2.0	1 585	222 911	2.8	858	10	12

Table 17. **Estimated Quantity of Water Applied, Method of Distribution, and Application of Chemicals in Irrigation, by Selected Crop: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Pastureland, all types											
				Method of distribution						Farms reporting application of chemicals in irrigation		
				Sprinkler system only			Gravity flow only					
	Farms	Acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Commercial fertilizer	Insect control	Weed control
Conterminous United States	**55 164**	**3 829 843**	**1.9**	**16 465**	**515 252**	**1.7**	**34 456**	**2 803 401**	**1.9**	**5 835**	**297**	**1 232**
17 Western States, Arkansas, Florida, and Louisiana	**54 920**	**3 826 308**	**1.9**	**16 233**	**512 387**	**1.7**	**34 448**	**2 803 171**	**1.9**	**5 834**	**297**	**1 232**
Arizona	1 139	55 655	2.2	184	6 138	2.6	923	44 073	2.2	224	12	22
Arkansas	128	2 098	1.3	99	1 228	1.8	29	870	.5	-	-	-
California	9 359	590 642	2.5	2 925	77 866	2.2	5 800	428 810	2.6	977	-	59
Colorado	5 216	365 472	1.5	352	19 878	1.6	4 754	337 939	1.5	592	-	-
Florida	448	177 448	1.8	176	2 432	1.0	231	153 304	1.7	35	4	4
Idaho	8 584	474 189	1.5	1 455	34 791	1.6	6 320	392 685	1.4	563	144	176
Kansas	302	34 019	1.2	40	5 960	1.2	158	23 046	1.2	1	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Montana	3 946	446 975	2.2	1 165	49 403	2.2	2 273	318 909	2.3	380	-	77
Nebraska	985	101 092	1.2	689	88 847	1.1	292	10 098	2.1	367	-	-
Nevada	828	173 707	2.2	71	1 006	2.5	681	151 613	2.3	76	13	-
New Mexico	2 016	62 681	1.8	484	18 345	1.5	1 384	34 494	1.9	324	87	20
North Dakota	25	585	1.6	17	270	1.2	8	315	2.0	-	-	-
Oklahoma	300	16 072	1.5	244	11 295	1.6	41	3 197	.7	33	11	13
Oregon	7 036	465 972	2.1	3 241	65 602	1.9	3 081	259 452	2.1	1 007	-	489
South Dakota	109	3 190	.7	25	1 265	.2	84	1 925	.9	-	-	-
Texas	3 050	193 891	1.6	805	34 289	1.2	1 972	136 040	1.8	425	1	113
Utah	4 581	197 371	2.0	706	16 229	1.6	3 483	157 073	2.0	177	25	65
Washington	4 600	109 869	1.9	3 347	64 831	1.9	1 071	37 369	1.8	475	-	73
Wyoming	2 268	355 380	1.5	208	12 712	1.2	1 863	311 959	1.5	178	-	121
All other States	**244**	**3 535**	**.7**	**232**	**2 865**	**.7**	**8**	**230**	**.4**	**1**	**-**	**-**
Water resources areas:												
WRA 01 New England	5	20	1.4	5	20	1.4	-	-	-	-	-	-
WRA 02 Mid-Atlantic	46	170	.5	46	170	.5	-	-	-	-	-	-
WRA 03 South Atlantic-Gulf	449	177 548	1.8	177	2 532	1.0	231	153 304	1.7	35	4	4
WRA 04 Great Lakes	72	760	1.1	72	760	1.1	-	-	-	-	-	-
WRA 05 Ohio	19	880	.6	10	240	.2	5	200	.4	-	-	-
WRA 06 Tennessee	9	267	.9	6	237	.9	3	30	.7	-	-	-
WRA 07 Upper Mississippi	90	1 108	.6	90	1 108	.6	-	-	-	-	-	-
WRA 08 Lower Mississippi	31	1 100	.6	2	(D)	(D)	29	870	.5	1	-	-
WRA 09 Souris-Red-Rainy	5	150	.6	5	(D)	.6	-	-	-	-	-	-
WRA 10 Missouri	6 747	758 824	1.8	1 498	137 333	1.4	4 842	542 666	1.9	765	-	122
WRA 11 Arkansas-White-Red	1 892	124 805	1.2	452	42 291	1.5	1 214	56 603	1.1	222	11	23
WRA 12 Texas-Gulf	1 901	85 998	1.6	910	32 816	1.3	835	46 438	1.8	297	1	113
WRA 13 Rio Grande	2 474	192 280	1.7	245	3 706	1.2	2 166	179 397	1.7	202	87	10
WRA 14 Upper Colorado	5 207	412 895	1.7	369	11 056	1.6	4 533	378 148	1.6	570	25	1
WRA 15 Lower Colorado	1 463	66 321	2.2	262	6 743	2.7	1 143	51 734	2.3	251	12	22
WRA 16 Great Basin	3 889	251 623	2.1	688	10 930	1.4	2 694	203 261	2.1	206	13	65
WRA 17 Pacific Northwest	20 852	1 036 209	1.8	8 435	184 126	1.8	10 626	691 689	1.7	2 265	144	813
WRA 18 California	10 013	718 885	2.6	3 193	80 804	2.2	6 135	499 061	2.5	1 021	-	59

Table 18. **Other Uses of Irrigation Water: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Prevent freeze damage			Crop cooling to delay early budding or blooming			Leaching to remove salts from soil			Other purposes—land disposal of livestock waste, etc.		
	Farms	Acres applied	Acres irrigated	Farms	Acres applied	Acres irrigated	Farms	Acres applied	Acres irrigated	Farms	Acres applied	Acres irrigated
Conterminous United States	**13 542**	**1 065 204**	**2 336 216**	**1 324**	**84 743**	**173 684**	**1 815**	**347 968**	**898 435**	**1 901**	**165 910**	**645 532**
17 Western States, Arkansas, Florida, and Louisiana	**11 250**	**1 003 497**	**2 192 284**	**647**	**50 074**	**122 074**	**1 806**	**347 959**	**898 426**	**1 473**	**135 622**	**589 982**
Arizona	149	17 959	51 658	25	3 031	6 615	170	64 145	82 136	23	437	4 504
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	6 503	533 224	1 061 068	371	38 422	93 593	924	193 691	523 571	562	63 472	210 655
Colorado	-	-	-	-	-	-	99	1 994	21 600	75	4 034	33 879
Florida	2 581	399 451	766 512	45	1 759	1 778	13	8 120	13 120	30	4 890	14 130
Idaho	5	1 500	19 920	-	-	-	31	7 230	31 810	71	2 478	42 776
Kansas	62	62	1 116	-	-	-	-	-	-	59	2 067	77 486
Louisiana	170	568	1 358	57	114	456	-	-	-	-	-	-
Montana	23	396	5 598	-	-	-	17	1 314	20 763	15	3 600	9 000
Nebraska	-	-	-	-	-	-	-	-	-	70	17 776	106 949
Nevada	3	1 485	2 868	7	1 605	3 416	54	5 826	30 493	10	690	1 973
New Mexico	72	72	1 080	-	-	-	96	1 397	4 296	18	2 035	2 283
North Dakota	11	609	1 980	-	-	-	-	-	-	6	150	150
Oklahoma	17	34	34	-	-	-	-	-	-	18	2 567	5 356
Oregon	214	13 728	76 461	8	656	4 000	90	6 893	24 001	127	14 513	33 023
South Dakota	-	-	-	-	-	-	24	3 972	5 312	-	-	-
Texas	60	11 655	81 621	-	-	-	72	42 183	87 048	152	8 584	22 463
Utah	65	1 500	1 700	-	-	-	62	5 940	20 840	94	2 941	10 610
Washington	1 315	21 254	119 310	134	4 487	12 216	126	4 384	25 964	137	5 098	10 770
Wyoming	-	-	-	-	-	-	28	870	7 472	6	290	3 975
All other States	**2 292**	**61 707**	**143 932**	**677**	**34 669**	**51 610**	**9**	**9**	**9**	**428**	**30 288**	**55 550**
Water resources areas:												
WRA 01 New England	582	11 974	15 660	132	2 148	3 190	-	-	-	8	92	92
WRA 02 Mid-Atlantic	314	7 583	15 981	115	5 851	10 996	-	-	-	27	1 388	5 180
WRA 03 South Atlantic-Gulf	2 875	416 183	803 732	170	5 989	7 928	13	8 120	13 120	181	12 460	31 865
WRA 04 Great Lakes	551	9 379	40 200	185	8 484	11 644	-	-	-	82	13 280	20 789
WRA 05 Ohio	168	2 029	7 876	75	3 472	3 632	9	9	9	25	1 882	4 368
WRA 06 Tennessee	27	278	1 079	3	6	9	-	-	-	4	619	734
WRA 07 Upper Mississippi	356	13 732	25 916	42	10 478	15 989	-	-	-	85	595	595
WRA 08 Lower Mississippi	170	568	1 358	57	114	456	-	-	-	46	4 862	6 057
WRA 09 Souris-Red-Rainy	9	9	180	-	-	-	-	-	-	-	-	-
WRA 10 Missouri	86	728	6 854	-	-	-	101	7 436	41 867	112	23 335	143 276
WRA 11 Arkansas-White-Red	17	(D)	(D)	-	-	-	-	-	-	171	7 994	103 978
WRA 12 Texas-Gulf	1	(D)	(D)	-	-	-	9	1 620	7 920	65	5 851	6 449
WRA 13 Rio Grande	131	11 352	80 951	-	-	-	159	41 960	83 424	12	1 513	1 743
WRA 14 Upper Colorado	-	-	-	-	-	-	87	1 754	20 000	59	2 410	6 095
WRA 15 Lower Colorado	174	18 059	51 958	25	3 031	6 615	188	64 361	83 587	23	437	4 504
WRA 16 Great Basin	43	2 885	4 268	7	1 605	3 416	78	10 510	43 162	104	3 631	12 583
WRA 17 Pacific Northwest	1 413	27 831	179 886	142	5 143	16 216	215	15 827	77 610	330	21 839	81 569
WRA 18 California	6 625	542 205	1 098 533	371	38 422	93 593	956	196 371	527 736	567	63 722	215 655

Table 19. **Irrigated Farms by Size: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Total			1 to 9 acres			10 to 49 acres		
	Farms	Acres in farms	Acres irrigated	Farms	Acres in farms	Acres irrigated	Farms	Acres in farms	Acres irrigated
Conterminous United States	**212 354**	**175 133 529**	**44 730 913**	**19 269**	**96 137**	**80 587**	**47 460**	**1 118 281**	**844 147**
17 Western States, Arkansas, Florida, and Louisiana	**192 519**	**164 478 189**	**42 046 175**	**18 627**	**93 009**	**78 908**	**44 577**	**1 050 081**	**815 720**
Arizona	3 420	4 728 760	893 202	722	3 145	2 608	719	14 913	12 156
Arkansas	4 802	4 439 390	1 872 308	-	-	-	294	8 680	3 684
California	48 290	17 292 299	7 805 102	8 764	41 532	34 910	18 926	439 732	367 443
Colorado	13 443	15 379 881	3 104 875	316	1 688	1 533	2 352	60 546	42 139
Florida	5 862	4 990 501	1 437 976	696	3 545	2 793	1 965	48 791	33 202
Idaho	15 498	7 117 042	3 254 633	1 605	9 388	7 880	2 687	75 166	63 766
Kansas	6 175	8 934 767	2 314 580	-	-	-	201	4 336	4 183
Louisiana	2 382	1 838 294	578 806	57	342	342	186	3 847	1 491
Montana	7 900	16 769 062	1 877 131	75	300	300	1 311	28 571	18 565
Nebraska	19 216	19 320 703	5 827 841	-	-	-	-	-	-
Nevada	1 844	3 713 700	698 490	119	646	552	282	6 497	5 062
New Mexico	6 213	6 303 256	674 440	1 165	6 013	5 189	1 914	45 481	31 288
North Dakota	585	1 036 364	144 070	8	40	8	8	104	8
Oklahoma	2 045	1 920 289	439 619	47	265	152	138	2 431	1 165
Oregon	12 066	10 839 956	1 776 018	1 402	7 309	6 447	3 690	78 001	56 731
South Dakota	1 419	2 881 903	339 388	-	-	-	-	-	-
Texas	13 716	14 458 346	4 921 407	330	1 370	1 370	1 533	29 180	10 423
Utah	9 952	3 787 395	1 053 650	884	4 939	4 196	3 077	71 873	59 175
Washington	13 107	4 096 503	1 482 463	2 308	11 893	10 289	4 856	117 566	92 453
Wyoming	4 584	14 629 778	1 550 176	129	594	339	438	14 366	12 786
All other States	**19 835**	**10 655 340**	**2 684 738**	**642**	**3 128**	**1 679**	**2 883**	**68 200**	**28 427**
Water resources areas:									
WRA 01 New England	929	129 205	24 991	115	575	287	346	8 654	2 608
WRA 02 Mid-Atlantic	2 284	771 492	183 793	127	933	476	488	12 927	5 434
WRA 03 South Atlantic-Gulf	11 283	7 856 636	1 970 122	787	3 636	2 884	3 078	71 243	44 701
WRA 04 Great Lakes	3 157	1 422 885	447 259	102	342	247	282	8 225	3 470
WRA 05 Ohio	2 101	646 825	81 164	144	856	471	272	7 285	2 016
WRA 06 Tennessee	305	41 153	4 867	55	267	99	102	2 316	510
WRA 07 Upper Mississippi	3 016	1 859 150	584 140	-	-	-	208	5 090	2 539
WRA 08 Lower Mississippi	8 191	7 898 567	2 985 991	57	342	342	325	8 669	3 213
WRA 09 Souris-Red-Rainy	442	653 222	110 681	16	104	16	17	473	107
WRA 10 Missouri	38 042	59 224 976	10 921 193	185	959	648	1 881	46 025	31 428
WRA 11 Arkansas-White-Red	12 804	22 241 133	4 767 072	112	692	579	1 118	24 638	16 246
WRA 12 Texas-Gulf	8 867	8 317 374	2 860 311	66	132	132	533	15 878	3 956
WRA 13 Rio Grande	8 114	5 262 202	1 413 624	1 340	6 806	5 982	2 366	45 015	32 086
WRA 14 Upper Colorado	8 130	5 792 267	1 289 172	326	1 509	1 410	2 062	54 837	37 136
WRA 15 Lower Colorado	4 175	5 763 475	959 550	797	3 556	2 946	938	21 283	15 747
WRA 16 Great Basin	9 784	6 255 726	1 558 276	886	5 006	4 242	2 681	61 672	52 836
WRA 17 Pacific Northwest	41 604	22 845 001	6 520 511	5 390	28 890	24 916	11 646	278 505	217 804
WRA 18 California	49 126	18 152 240	8 048 196	8 764	41 532	34 910	19 117	445 546	372 310

Table 19. **Irrigated Farms by Size: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	50 to 99 acres			100 to 219 acres			220 to 499 acres		
	Farms	Acres in farms	Acres irrigated	Farms	Acres in farms	Acres irrigated	Farms	Acres in farms	Acres irrigated
Conterminous United States	**23 187**	**1 649 916**	**1 118 616**	**27 605**	**4 163 177**	**2 687 364**	**32 355**	**10 939 087**	**6 014 843**
17 Western States, Arkansas, Florida, and Louisiana	**20 823**	**1 478 390**	**1 059 230**	**24 187**	**3 649 926**	**2 557 374**	**27 973**	**9 449 354**	**5 554 642**
Arizona	381	26 739	18 007	338	50 068	36 023	402	138 492	101 549
Arkansas	65	6 370	1 300	599	90 820	42 313	662	229 422	117 122
California	7 043	488 748	375 370	4 703	694 283	563 665	3 751	1 186 245	936 352
Colorado	1 777	120 528	87 061	2 606	400 863	275 711	2 140	754 760	461 583
Florida	799	56 479	32 558	742	108 457	63 586	665	220 089	114 066
Idaho	2 579	189 203	155 411	3 072	461 087	382 420	2 485	785 394	602 391
Kansas	82	5 945	4 674	330	54 406	28 968	842	284 585	116 189
Louisiana	93	7 403	1 154	217	34 166	20 304	606	221 376	87 549
Montana	553	42 075	28 955	1 291	207 008	131 815	1 653	534 548	287 527
Nebraska	236	18 880	15 812	1 481	222 066	164 932	6 071	2 188 503	1 073 362
Nevada	268	19 235	15 450	294	44 333	30 706	304	103 933	69 956
New Mexico	484	34 775	21 462	735	108 345	63 807	695	230 847	116 015
North Dakota	19	1 050	210	21	3 002	1 999	38	12 854	8 275
Oklahoma	74	5 346	2 401	214	32 814	17 200	474	156 995	52 993
Oregon	1 489	105 460	65 406	1 908	286 686	150 325	1 501	487 386	249 202
South Dakota	47	3 760	2 494	72	11 425	8 770	250	97 432	38 856
Texas	1 115	86 049	38 747	1 359	200 050	135 739	2 183	729 555	390 684
Utah	1 655	118 632	94 414	1 711	264 037	175 117	1 299	443 594	275 550
Washington	1 533	104 533	70 851	1 828	266 406	188 249	1 192	394 263	296 132
Wyoming	531	37 180	27 493	666	109 604	75 725	760	249 081	159 289
All other States	**2 364**	**171 526**	**59 386**	**3 418**	**513 251**	**129 990**	**4 382**	**1 489 733**	**460 201**
Water resources areas:									
WRA 01 New England	166	12 097	3 725	177	26 917	4 609	76	24 134	4 355
WRA 02 Mid-Atlantic	567	40 052	20 954	453	70 686	25 913	332	108 772	40 855
WRA 03 South Atlantic-Gulf	1 266	90 297	44 092	1 862	266 191	93 769	1 940	643 264	205 793
WRA 04 Great Lakes	521	39 309	12 825	533	79 916	25 295	715	221 446	84 086
WRA 05 Ohio	335	24 433	3 171	558	87 374	7 744	438	137 033	14 320
WRA 06 Tennessee	52	3 540	372	43	6 091	389	34	11 221	1 242
WRA 07 Upper Mississippi	197	13 917	3 434	319	50 314	16 546	1 014	391 771	143 149
WRA 08 Lower Mississippi	138	10 643	4 079	983	151 225	77 322	1 461	514 641	251 544
WRA 09 Souris-Red-Rainy	23	1 570	626	14	2 540	356	107	38 879	12 550
WRA 10 Missouri	1 733	127 709	99 654	4 151	647 359	471 383	9 412	3 324 897	1 685 836
WRA 11 Arkansas-White-Red	562	42 540	24 429	1 243	198 039	117 292	2 064	677 426	301 480
WRA 12 Texas-Gulf	652	48 377	9 725	849	122 662	68 371	1 816	644 101	361 105
WRA 13 Rio Grande	915	68 205	51 101	874	129 789	98 454	885	291 341	174 077
WRA 14 Upper Colorado	1 187	81 584	54 975	1 451	222 649	132 825	1 047	367 372	203 521
WRA 15 Lower Colorado	458	31 530	21 328	424	60 513	41 969	556	191 720	129 536
WRA 16 Great Basin	1 644	118 451	96 468	1 657	255 745	172 525	1 271	411 973	272 300
WRA 17 Pacific Northwest	5 587	396 974	282 955	7 126	1 068 578	763 357	5 306	1 707 466	1 156 661
WRA 18 California	7 184	498 688	384 703	4 888	716 589	569 245	3 881	1 231 630	972 433

Table 19. **Irrigated Farms by Size: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	500 to 999 acres			1,000 to 1,999 acres			2,000 acres or more		
	Farms	Acres in farms	Acres irrigated	Farms	Acres in farms	Acres irrigated	Farms	Acres in farms	Acres irrigated
Conterminous United States	**28 034**	**19 570 031**	**9 173 560**	**17 999**	**24 914 019**	**9 140 681**	**16 445**	**112 682 881**	**15 671 115**
17 Western States, Arkansas, Florida, and Louisiana	**24 663**	**17 243 908**	**8 521 833**	**16 008**	**22 242 727**	**8 436 650**	**15 661**	**109 270 794**	**15 021 818**
Arizona	394	287 832	165 393	187	248 802	158 782	277	3 958 769	398 684
Arkansas	1 516	1 052 542	529 105	1 138	1 508 962	670 653	528	1 542 594	508 131
California	2 214	1 505 898	1 043 926	1 566	2 123 225	1 345 505	1 323	10 812 636	3 137 931
Colorado	1 659	1 150 344	540 843	972	1 384 094	556 349	1 621	11 507 058	1 139 656
Florida	439	283 775	134 832	231	333 830	159 777	325	3 935 535	897 162
Idaho	1 576	1 072 177	676 198	757	1 078 716	660 741	737	3 445 911	705 826
Kansas	1 586	1 190 213	466 646	2 018	2 945 444	775 170	1 116	4 449 838	918 750
Louisiana	612	430 773	132 433	498	695 248	202 005	113	445 139	133 528
Montana	723	540 733	252 520	595	839 184	174 292	1 699	14 576 643	983 157
Nebraska	6 441	4 407 466	2 105 932	2 955	4 010 652	1 347 609	2 032	8 473 136	1 120 194
Nevada	202	146 238	82 990	129	189 043	82 882	246	3 203 775	410 892
New Mexico	488	346 277	133 023	308	419 686	118 157	424	5 111 832	185 499
North Dakota	111	85 955	29 430	176	254 100	34 149	204	679 259	69 991
Oklahoma	417	305 083	74 041	465	635 483	107 807	216	781 872	183 860
Oregon	904	633 708	280 672	357	472 939	201 881	815	8 768 467	765 354
South Dakota	328	234 634	69 226	325	463 773	85 525	397	2 070 879	134 517
Texas	3 064	2 179 866	1 112 367	2 289	3 162 147	1 264 945	1 843	8 070 129	1 967 132
Utah	758	501 887	192 631	281	400 427	125 932	287	1 982 006	126 635
Washington	575	418 520	245 759	409	558 125	213 374	406	2 225 197	365 356
Wyoming	656	469 987	253 866	352	518 847	151 115	1 052	13 230 119	869 563
All other States	**3 371**	**2 326 123**	**651 727**	**1 991**	**2 671 292**	**704 031**	**784**	**3 412 087**	**649 297**
Water resources areas:									
WRA 01 New England	36	21 722	4 670	8	(D)	(D)	5	(D)	(D)
WRA 02 Mid-Atlantic	159	114 917	26 989	105	144 376	37 396	53	278 829	25 776
WRA 03 South Atlantic-Gulf	1 175	773 894	241 581	668	945 337	293 748	507	5 062 774	1 043 554
WRA 04 Great Lakes	617	429 378	149 731	322	409 920	115 988	65	234 349	55 617
WRA 05 Ohio	211	143 524	16 585	112	143 780	21 406	31	102 540	15 451
WRA 06 Tennessee	16	10 883	1 578	1	(D)	(D)	2	(D)	(D)
WRA 07 Upper Mississippi	785	585 606	161 027	418	537 394	175 074	75	275 058	82 371
WRA 08 Lower Mississippi	2 436	1 678 185	764 631	1 837	2 498 073	961 716	954	3 036 789	923 144
WRA 09 Souris-Red-Rainy	68	50 613	15 094	85	106 716	33 168	112	452 327	48 764
WRA 10 Missouri	9 223	6 384 730	2 975 514	5 621	7 824 248	2 241 010	5 836	40 869 049	3 415 720
WRA 11 Arkansas-White-Red	2 575	1 918 543	708 914	2 586	3 751 395	1 231 773	2 544	15 627 860	2 366 359
WRA 12 Texas-Gulf	2 452	1 713 661	851 192	1 677	2 243 427	816 837	822	3 529 136	748 993
WRA 13 Rio Grande	767	547 329	331 037	506	699 227	300 628	461	3 474 490	420 259
WRA 14 Upper Colorado	858	583 267	210 212	423	585 945	149 598	776	3 895 104	499 495
WRA 15 Lower Colorado	466	341 534	174 416	221	294 239	162 356	315	4 819 100	411 252
WRA 16 Great Basin	923	656 990	286 739	342	502 383	179 836	380	4 243 506	493 330
WRA 17 Pacific Northwest	2 991	2 066 948	1 180 501	1 443	2 017 886	1 035 754	2 115	15 279 754	1 858 563
WRA 18 California	2 276	1 548 307	1 073 149	1 624	2 197 193	1 382 787	1 392	11 472 755	3 258 659

Table 20. **Irrigated Farms by Standard Industrial Classification: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Total		Cash grains (011)		Field crops, except cash grains (013)							
					Total		Cotton (0131)		Tobacco (0132)		Sugar crops, Irish potatoes, hay, peanuts, and other field crops (0133, 0134, 0139)	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
Conterminous United States	**212 354**	**44 730 913**	**48 016**	**16 673 254**	**29 061**	**7 770 079**	**5 401**	**2 981 207**	**3 258**	**59 757**	**20 402**	**4 729 115**
17 Western States, Arkansas, Florida, and Louisiana	**192 519**	**42 046 175**	**42 951**	**15 270 912**	**24 545**	**7 315 019**	**5 121**	**2 865 325**	**98**	**3 763**	**19 326**	**4 445 931**
Arizona	3 420	893 202	97	28 884	1 164	599 683	724	504 153	-	-	440	95 530
Arkansas	4 802	1 872 308	4 326	1 822 407	90	45 367	90	45 367	-	-	-	-
California	48 290	7 805 102	2 113	930 976	4 033	1 828 313	1 327	1 272 269	-	-	2 706	556 044
Colorado	13 443	3 104 875	2 669	931 990	1 991	452 390	-	-	-	-	1 991	452 390
Florida	5 862	1 437 976	64	26 181	377	368 713	-	-	98	3 763	279	364 950
Idaho	15 498	3 254 633	3 273	802 254	2 679	882 587	-	-	-	-	2 679	882 587
Kansas	6 175	2 314 580	4 113	1 753 736	215	76 474	-	-	-	-	215	76 474
Louisiana	2 382	578 806	1 773	478 762	319	85 826	319	85 826	-	-	-	-
Montana	7 900	1 877 131	1 214	316 190	1 011	211 640	-	-	-	-	1 011	211 640
Nebraska	19 216	5 827 841	12 816	4 087 873	221	26 677	-	-	-	-	221	26 677
Nevada	1 844	698 490	48	13 095	584	191 750	3	1 050	-	-	581	190 700
New Mexico	6 213	674 440	367	129 460	1 688	223 612	331	67 144	-	-	1 357	156 468
North Dakota	585	144 070	258	73 935	69	22 117	-	-	-	-	69	22 117
Oklahoma	2 045	439 619	572	208 607	547	109 604	148	48 675	-	-	399	60 929
Oregon	12 066	1 776 018	841	199 055	2 204	249 133	-	-	-	-	2 204	249 133
South Dakota	1 419	339 388	407	137 398	92	9 802	-	-	-	-	92	9 802
Texas	13 716	4 921 407	5 755	2 741 883	3 000	1 076 720	2 179	840 841	-	-	821	235 879
Utah	9 952	1 053 650	775	86 810	2 069	221 178	-	-	-	-	2 069	221 178
Washington	13 107	1 482 463	1 095	397 946	1 419	449 127	-	-	-	-	1 419	449 127
Wyoming	4 584	1 550 176	375	103 470	773	184 306	-	-	-	-	773	184 306
All other States	**19 835**	**2 684 738**	**5 065**	**1 402 342**	**4 516**	**455 060**	**280**	**115 882**	**3 160**	**55 994**	**1 076**	**283 184**
Water resources areas:												
WRA 01 New England	929	24 991	-	-	37	5 866	-	-	5	1 280	32	4 586
WRA 02 Mid-Atlantic	2 284	183 793	316	47 309	339	33 742	-	-	70	278	269	33 464
WRA 03 South Atlantic-Gulf	11 283	1 970 122	719	176 628	2 463	491 419	24	9 356	1 842	48 306	597	433 757
WRA 04 Great Lakes	3 157	447 259	745	193 485	248	66 399	-	-	-	-	248	66 399
WRA 05 Ohio	2 101	81 164	271	46 730	1 236	12 163	-	-	1 208	9 464	28	2 699
WRA 06 Tennessee	305	4 867	15	587	142	903	1	(D)	133	429	8	(D)
WRA 07 Upper Mississippi	3 016	584 140	1 103	277 141	113	103 084	-	-	-	-	113	103 084
WRA 08 Lower Mississippi	8 191	2 985 991	7 013	2 721 224	641	234 269	641	234 269	-	-	-	-
WRA 09 Souris-Red-Rainy	442	110 681	206	82 492	32	1 661	-	-	-	-	32	1 661
WRA 10 Missouri	38 042	10 921 193	18 092	5 735 784	2 494	552 261	-	-	-	-	2 494	552 261
WRA 11 Arkansas-White-Red	12 804	4 767 072	6 263	3 131 770	1 507	424 195	390	154 863	-	-	1 117	269 332
WRA 12 Texas-Gulf	8 867	2 860 311	3 872	1 611 348	1 999	771 291	1 500	591 423	-	-	499	179 868
WRA 13 Rio Grande	8 114	1 413 624	566	130 771	2 450	506 360	757	203 321	-	-	1 693	303 039
WRA 14 Upper Colorado	8 130	1 289 172	462	45 444	1 201	141 023	-	-	-	-	1 201	141 023
WRA 15 Lower Colorado	4 175	959 550	178	50 118	1 297	617 390	758	514 426	-	-	539	102 964
WRA 16 Great Basin	9 784	1 558 276	926	98 392	2 482	390 029	3	(D)	-	-	2 479	(D)
WRA 17 Pacific Northwest	41 604	6 520 511	5 132	1 382 640	6 109	1 557 988	-	-	-	-	6 109	1 557 988
WRA 18 California	49 126	8 048 196	2 137	941 391	4 271	1 860 036	1 327	1 272 269	-	-	2 944	587 767

Table 20. **Irrigated Farms by Standard Industrial Classification: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Vegetables and melons (016)		Fruits and tree nuts (017)		Horticultural specialties (018)		General farms, primarily crop (019)		Livestock, except dairy, poultry, and animal specialties (021)			
									Total		Beef cattle, except feedlots (0212)	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
Conterminous United States	**8 087**	**1 722 086**	**45 868**	**3 352 330**	**-**	**-**	**9 089**	**3 149 896**	**58 915**	**10 466 807**	**41 275**	**7 627 593**
17 Western States, Arkansas, Florida, and Louisiana	**5 403**	**1 520 265**	**42 751**	**3 215 034**	**-**	**-**	**7 822**	**2 983 048**	**57 415**	**10 350 806**	**40 837**	**7 613 402**
Arizona	81	49 405	627	58 733	-	-	94	64 260	1 042	84 479	806	69 834
Arkansas	99	725	65	325	-	-	-	-	169	3 378	169	3 378
California	2 222	822 014	28 922	2 143 043	-	-	885	1 019 007	7 671	663 871	5 659	546 853
Colorado	274	39 383	647	22 473	-	-	804	258 849	5 882	1 325 200	4 246	1 008 883
Florida	680	210 140	3 754	605 948	-	-	60	31 553	697	174 851	604	126 034
Idaho	214	57 744	30	4 440	-	-	1 610	457 425	5 956	831 588	4 710	710 281
Kansas	44	6 160	157	2 423	-	-	107	31 348	1 371	426 859	739	216 456
Louisiana	56	(D)	114	798	-	-	1	(D)	119	11 860	119	11 860
Montana	-	-	151	827	-	-	280	91 477	4 630	1 168 988	3 786	1 065 014
Nebraska	-	-	-	-	-	-	427	111 351	5 383	1 485 899	1 617	316 404
Nevada	14	5 860	-	-	-	-	36	22 030	985	446 079	849	408 716
New Mexico	250	30 908	475	21 800	-	-	314	59 846	2 582	181 998	2 243	162 469
North Dakota	25	(D)	-	-	-	-	6	(D)	170	31 707	127	26 228
Oklahoma	14	42	62	898	-	-	200	24 701	519	87 439	423	64 591
Oregon	434	66 539	781	48 858	-	-	696	208 285	6 257	916 932	4 191	825 706
South Dakota	-	-	-	-	-	-	56	8 023	747	157 598	424	82 202
Texas	349	158 535	963	75 848	-	-	619	288 005	2 573	539 397	2 132	438 482
Utah	195	22 035	565	25 457	-	-	724	50 843	4 552	520 038	3 193	401 401
Washington	452	50 019	5 438	203 163	-	-	444	138 790	3 549	185 063	2 525	141 787
Wyoming	-	-	-	-	-	-	459	112 455	2 561	1 107 582	2 275	986 823
All other States	**2 684**	**201 821**	**3 117**	**137 296**	**-**	**-**	**1 267**	**166 848**	**1 500**	**116 001**	**438**	**14 191**
Water resources areas:												
WRA 01 New England	288	6 291	521	11 950	-	-	37	643	21	51	4	8
WRA 02 Mid-Atlantic	961	63 356	289	12 957	-	-	121	5 198	46	440	46	440
WRA 03 South Atlantic-Gulf	1 040	237 963	4 458	669 267	-	-	870	144 938	1 058	182 910	726	131 085
WRA 04 Great Lakes	647	56 004	852	29 475	-	-	136	20 065	203	30 104	16	4 000
WRA 05 Ohio	176	5 292	120	1 758	-	-	40	2 983	178	7 633	99	1 479
WRA 06 Tennessee	56	1 407	34	(D)	-	-	24	(D)	19	291	5	94
WRA 07 Upper Mississippi	196	41 648	518	17 251	-	-	99	24 116	497	59 104	132	2 314
WRA 08 Lower Mississippi	155	1 285	114	(D)	-	-	1	(D)	196	16 141	152	11 741
WRA 09 Souris-Red-Rainy	25	196	16	64	-	-	-	-	62	13 289	48	11 014
WRA 10 Missouri	53	5 617	125	1 368	-	-	1 672	412 180	13 793	3 894 816	7 713	2 216 673
WRA 11 Arkansas-White-Red	218	20 276	440	4 246	-	-	679	191 558	3 522	984 939	2 671	702 091
WRA 12 Texas-Gulf	302	58 434	111	28 794	-	-	290	182 816	1 921	153 253	1 557	123 324
WRA 13 Rio Grande	310	150 509	1 139	66 528	-	-	381	147 680	2 662	398 364	2 136	324 772
WRA 14 Upper Colorado	48	192	547	22 173	-	-	418	60 601	4 607	982 444	3 989	900 147
WRA 15 Lower Colorado	81	49 405	815	61 472	-	-	95	64 580	1 365	106 400	1 088	88 498
WRA 16 Great Basin	209	27 895	447	23 628	-	-	567	57 973	3 792	767 004	2 562	639 758
WRA 17 Pacific Northwest	1 100	174 302	6 400	257 288	-	-	2 746	791 799	16 762	2 033 848	12 201	1 770 914
WRA 18 California	2 222	822 014	28 922	2 143 043	-	-	913	1 041 308	8 211	835 776	6 130	699 241

Table 20. **Irrigated Farms by Standard Industrial Classification: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Dairy farms (024)		Poultry and eggs (025)		Animal specialties (027)		General farms, primarily livestock (029)	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
Conterminous United States	**6 525**	**1 132 244**	**1 039**	**64 339**	**3 821**	**130 788**	**1 933**	**269 090**
17 Western States, Arkansas, Florida, and Louisiana	**5 517**	**1 002 281**	**613**	**29 381**	**3 767**	**118 772**	**1 735**	**240 657**
Arizona	20	3 036	56	209	207	3 405	32	1 108
Arkansas	-	-	53	106	-	-	-	-
California	1 444	370 753	194	1 428	619	14 297	187	11 400
Colorado	263	26 955	150	16 005	534	16 932	229	14 698
Florida	25	12 437	105	6 515	85	390	15	1 248
Idaho	1 115	192 139	-	-	360	4 320	261	22 136
Kansas	124	8 780	-	-	-	-	44	8 800
Louisiana	-	-	-	-	-	-	-	-
Montana	352	52 314	-	-	193	12 967	69	22 728
Nebraska	92	43 240	-	-	-	-	277	72 801
Nevada	35	11 252	-	-	119	5 148	23	3 276
New Mexico	23	15 476	31	198	383	8 861	100	2 281
North Dakota	40	9 095	-	-	-	-	17	3 220
Oklahoma	73	6 642	9	135	20	384	29	1 167
Oregon	416	52 557	-	-	390	28 633	47	6 026
South Dakota	81	16 220	-	-	-	-	36	10 347
Texas	112	3 696	-	-	132	1 188	213	36 135
Utah	603	108 901	-	-	387	10 352	82	8 036
Washington	564	48 111	15	4 785	95	699	36	4 760
Wyoming	135	20 677	-	-	243	11 196	38	10 490
All other States	**1 008**	**129 963**	**426**	**34 958**	**54**	**12 016**	**198**	**28 433**
Water resources areas:								
WRA 01 New England	1	(D)	16	37	4	(D)	4	48
WRA 02 Mid-Atlantic	86	4 921	118	13 590	-	-	8	2 280
WRA 03 South Atlantic-Gulf	196	42 335	377	22 659	85	390	17	1 613
WRA 04 Great Lakes	222	41 238	14	3 395	22	44	68	7 050
WRA 05 Ohio	38	(D)	6	1 792	4	(D)	32	1 058
WRA 06 Tennessee	15	951	-	-	-	-	-	-
WRA 07 Upper Mississippi	406	44 164	-	-	-	-	84	17 632
WRA 08 Lower Mississippi	-	-	53	106	18	11 168	-	-
WRA 09 Souris-Red-Rainy	90	12 289	-	-	6	360	5	330
WRA 10 Missouri	769	143 285	33	13 530	438	26 488	573	135 864
WRA 11 Arkansas-White-Red	117	8 402	9	135	20	384	29	1 167
WRA 12 Texas-Gulf	123	14 020	-	-	25	2 900	224	37 455
WRA 13 Rio Grande	12	5 152	15	150	490	7 149	89	961
WRA 14 Upper Colorado	157	18 533	133	2 523	448	11 971	109	4 268
WRA 15 Lower Colorado	23	4 917	56	209	233	3 951	32	1 108
WRA 16 Great Basin	844	168 260	-	-	412	13 783	105	11 312
WRA 17 Pacific Northwest	1 977	246 608	15	4 785	997	37 459	366	33 794
WRA 18 California	1 449	375 753	194	1 428	619	14 297	188	13 150

Table 21. **Irrigated Farms by Value of Agricultural Products Sold: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Total		$500,000 or more		$250,000 to $499,999		$100,000 to $249,999		$40,000 to $99,999	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
Conterminous United States	**212 354**	**44 730 913**	**9 670**	**12 359 738**	**20 525**	**9 869 346**	**25 766**	**8 075 759**	**40 812**	**7 796 457**
17 Western States, Arkansas, Florida, and Louisiana	**192 519**	**42 046 175**	**8 363**	**11 597 570**	**17 360**	**9 074 251**	**21 921**	**7 470 962**	**36 338**	**7 436 308**
Arizona	3 420	893 202	326	476 997	353	173 290	279	85 085	290	73 036
Arkansas	4 802	1 872 308	281	342 224	1 282	751 768	1 039	401 068	1 034	272 940
California	48 290	7 805 102	3 212	4 267 628	3 420	1 304 870	3 579	778 967	6 884	673 568
Colorado	13 443	3 104 875	537	635 713	791	520 256	1 176	519 795	2 012	584 962
Florida	5 862	1 437 976	593	1 044 752	547	128 339	501	67 129	1 061	87 064
Idaho	15 498	3 254 633	480	694 676	1 128	683 367	1 202	409 709	3 123	767 728
Kansas	6 175	2 314 580	326	495 807	1 152	737 719	1 748	576 936	1 711	411 252
Louisiana	2 382	578 806	63	102 547	424	191 339	630	166 406	752	101 231
Montana	7 900	1 877 131	109	205 594	381	306 535	881	485 344	1 840	473 450
Nebraska	19 216	5 827 841	440	739 340	2 807	1 375 893	4 524	1 616 686	7 301	1 567 197
Nevada	1 844	698 490	52	159 172	134	160 181	156	110 549	311	145 816
New Mexico	6 213	674 440	70	91 744	276	157 638	232	87 827	551	152 334
North Dakota	585	144 070	30	22 579	47	21 954	197	57 381	195	32 792
Oklahoma	2 045	439 619	40	62 440	201	104 951	342	107 556	624	112 609
Oregon	12 066	1 776 018	283	351 142	930	450 365	1 046	317 709	1 352	227 068
South Dakota	1 419	339 388	80	54 776	228	78 476	346	79 719	347	77 328
Texas	13 716	4 921 407	755	1 070 199	1 883	1 310 719	1 743	965 500	2 721	811 504
Utah	9 952	1 053 650	91	80 234	216	93 617	568	148 184	924	228 523
Washington	13 107	1 482 463	504	482 431	956	327 401	1 257	210 323	2 287	249 058
Wyoming	4 584	1 550 176	91	217 575	204	195 573	475	279 089	1 018	386 848
All other States	**19 835**	**2 684 738**	**1 307**	**762 168**	**3 165**	**795 095**	**3 845**	**604 797**	**4 474**	**360 149**
Water resources areas:										
WRA 01 New England	929	24 991	32	7 430	60	6 914	71	2 290	213	4 418
WRA 02 Mid-Atlantic	2 284	183 793	136	54 801	247	38 460	476	38 349	418	32 878
WRA 03 South Atlantic-Gulf	11 283	1 970 122	918	1 188 371	1 415	294 870	1 234	183 386	2 493	169 560
WRA 04 Great Lakes	3 157	447 259	229	117 372	643	145 208	630	101 748	760	64 027
WRA 05 Ohio	2 101	81 164	61	20 673	149	21 910	189	16 083	459	12 424
WRA 06 Tennessee	305	4 867	1	(D)	14	2 310	14	715	29	487
WRA 07 Upper Mississippi	3 016	584 140	210	(D)	543	139 974	1 176	205 516	525	75 139
WRA 08 Lower Mississippi	8 191	2 985 991	620	686 213	2 071	1 137 081	1 886	604 880	2 128	425 998
WRA 09 Souris-Red-Rainy	442	110 681	29	25 480	62	25 257	105	33 599	141	21 022
WRA 10 Missouri	38 042	10 921 193	1 133	1 582 632	4 411	2 361 843	7 772	2 799 312	11 710	2 715 691
WRA 11 Arkansas-White-Red	12 804	4 767 072	611	1 104 528	1 923	1 366 386	2 142	1 064 498	3 050	725 646
WRA 12 Texas-Gulf	8 867	2 860 311	476	425 619	1 093	700 163	1 097	543 954	2 234	702 629
WRA 13 Rio Grande	8 114	1 413 624	211	377 572	611	312 421	422	162 621	526	196 063
WRA 14 Upper Colorado	8 130	1 289 172	70	117 980	108	67 696	325	192 873	879	281 365
WRA 15 Lower Colorado	4 175	959 550	329	478 878	358	179 717	282	86 285	345	84 708
WRA 16 Great Basin	9 784	1 558 276	120	214 525	359	254 038	798	282 433	1 128	330 200
WRA 17 Pacific Northwest	41 604	6 520 511	1 256	1 518 363	3 003	1 474 800	3 496	933 652	6 694	1 247 423
WRA 18 California	49 126	8 048 196	3 228	4 297 787	3 455	1 340 298	3 651	823 565	7 080	706 779

Table 21. **Irrigated Farms by Value of Agricultural Products Sold: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	$20,000 to $39,999		$10,000 to $19,999		$5,000 to $9,999		$2,500 to $4,999		Less than $2,500	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
Conterminous United States	**25 229**	**2 936 224**	**21 505**	**1 621 449**	**18 367**	**834 528**	**16 267**	**507 906**	**34 213**	**729 506**
17 Western States, Arkansas, Florida, and Louisiana	**22 842**	**2 819 746**	**20 126**	**1 602 768**	**17 235**	**822 206**	**15 556**	**503 075**	**32 778**	**719 289**
Arizona	179	17 458	279	13 820	314	26 075	379	6 562	1 021	20 879
Arkansas	661	93 262	160	4 415	157	3 813	118	2 678	70	140
California	5 721	269 823	5 939	159 940	4 984	110 371	3 814	86 142	10 737	153 793
Colorado	1 881	370 402	1 934	221 249	1 211	95 818	1 502	74 256	2 399	82 424
Florida	795	38 123	586	19 512	548	9 117	422	4 850	809	39 090
Idaho	2 423	341 924	1 427	146 444	1 579	89 581	1 524	39 425	2 612	81 779
Kansas	450	40 206	396	35 236	150	6 094	85	3 187	157	8 143
Louisiana	120	8 311	93	1 154	114	6 327	57	456	129	1 035
Montana	986	190 180	1 043	104 824	1 053	64 545	503	15 442	1 104	31 217
Nebraska	2 461	351 300	1 103	121 605	344	40 008	236	15 812	-	-
Nevada	241	50 206	199	28 101	353	28 300	99	6 076	299	10 089
New Mexico	409	43 971	618	39 118	732	32 970	1 174	25 892	2 151	42 946
North Dakota	54	6 033	36	3 285	10	30	-	-	16	16
Oklahoma	269	25 208	219	15 450	161	7 642	70	2 608	119	1 155
Oregon	1 115	158 470	1 174	129 258	1 562	68 260	1 830	35 124	2 774	38 622
South Dakota	227	30 995	71	6 520	31	5 900	42	3 470	47	2 204
Texas	1 706	385 663	1 577	222 137	705	53 218	967	70 439	1 659	32 028
Utah	1 013	131 167	1 355	139 011	1 407	83 953	1 340	68 092	3 038	80 869
Washington	1 392	76 139	1 389	42 205	1 228	32 816	1 095	31 422	2 999	30 668
Wyoming	739	190 905	528	149 484	592	57 368	299	11 142	638	62 192
All other States	**2 387**	**116 478**	**1 379**	**18 681**	**1 132**	**12 322**	**711**	**4 831**	**1 435**	**10 217**
Water resources areas:										
WRA 01 New England	143	1 728	149	1 274	81	520	71	133	109	284
WRA 02 Mid-Atlantic	393	11 015	155	2 753	253	3 527	127	280	79	1 730
WRA 03 South Atlantic-Gulf	1 264	44 947	970	22 700	892	14 586	583	7 272	1 514	44 430
WRA 04 Great Lakes	207	9 672	259	5 535	179	1 863	94	1 234	156	600
WRA 05 Ohio	536	6 661	327	2 146	148	606	119	274	113	387
WRA 06 Tennessee	38	330	48	297	56	195	46	116	59	(D)
WRA 07 Upper Mississippi	244	18 348	41	2 952	71	142	85	340	121	(D)
WRA 08 Lower Mississippi	777	116 676	253	5 569	237	8 202	57	456	162	916
WRA 09 Souris-Red-Rainy	21	1 967	30	2 316	-	-	8	32	46	1 008
WRA 10 Missouri	5 349	829 613	2 867	376 152	1 671	133 646	1 275	56 943	1 854	65 361
WRA 11 Arkansas-White-Red	1 269	221 161	1 419	139 242	500	33 536	622	73 883	1 268	38 192
WRA 12 Texas-Gulf	1 376	282 914	724	104 068	606	55 670	520	24 898	741	20 396
WRA 13 Rio Grande	575	92 367	1 220	146 818	809	34 655	1 449	40 190	2 291	50 917
WRA 14 Upper Colorado	847	215 979	1 182	177 505	1 202	106 623	1 213	42 992	2 304	86 159
WRA 15 Lower Colorado	245	25 338	346	20 595	478	33 530	414	7 641	1 378	42 858
WRA 16 Great Basin	1 246	182 912	1 318	117 840	1 323	77 814	1 071	51 004	2 421	47 510
WRA 17 Pacific Northwest	4 929	586 891	4 196	272 764	4 755	204 732	4 503	110 608	8 772	171 278
WRA 18 California	5 770	287 705	6 001	220 923	5 106	124 681	4 010	89 610	10 825	156 848

Table 22. **Methods Used in Deciding When to Irrigate: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Irrigated farms	Farms reporting method used								
		Any method	Condition of crop	Feel of soil	Soil moisture sensing devices	Commercial scheduling service	Media reports	Scheduled by water delivery organization (no choice by water user)	Calendar schedule	Other
Conterminous United States	**212 354**	**203 817**	**60 590**	**83 879**	**16 214**	**6 724**	**9 402**	**23 504**	**33 917**	**15 196**
17 Western States, Arkansas, Florida, and Louisiana	**192 519**	**184 986**	**53 348**	**75 210**	**14 850**	**6 355**	**7 799**	**23 464**	**32 704**	**13 234**
Arizona	3 420	3 263	1 004	1 253	241	110	58	476	728	186
Arkansas	4 802	4 472	3 001	640	133	255	75	–	279	409
California	48 290	47 125	9 969	20 330	5 200	509	1 564	5 215	12 624	3 089
Colorado	13 443	12 952	3 722	5 077	697	395	439	3 234	1 266	884
Florida	5 862	5 487	2 301	2 418	229	101	227	43	285	496
Idaho	15 498	14 845	3 884	7 280	854	459	737	2 208	3 115	663
Kansas	6 175	5 830	1 478	2 678	603	1 170	294	192	755	614
Louisiana	2 382	2 318	1 237	426	62	24	38	22	274	339
Montana	7 900	7 693	2 143	3 350	262	192	75	821	1 372	863
Nebraska	19 216	18 668	3 989	8 731	3 020	2 074	2 748	1 268	1 714	1 567
Nevada	1 844	1 750	474	661	70	4	9	348	386	103
New Mexico	6 213	5 872	1 948	1 860	163	51	99	1 295	953	391
North Dakota	585	564	133	302	66	39	14	15	52	88
Oklahoma	2 045	1 951	932	667	75	51	44	58	238	135
Oregon	12 066	11 606	3 256	4 740	443	286	436	2 214	1 832	707
South Dakota	1 419	1 353	359	659	210	75	22	63	162	132
Texas	13 716	12 962	6 077	4 370	1 386	96	231	69	1 733	1 033
Utah	9 952	9 519	2 508	2 650	207	136	113	4 132	1 537	331
Washington	13 107	12 442	3 401	5 409	876	214	563	1 223	2 619	860
Wyoming	4 584	4 314	1 532	1 709	53	114	13	568	780	344
All other States	**19 835**	**18 831**	**7 242**	**8 669**	**1 364**	**369**	**1 603**	**40**	**1 213**	**1 962**
Water resources areas:										
WRA 01 New England	929	905	180	526	103	18	91	–	102	184
WRA 02 Mid-Atlantic	2 284	2 172	820	962	225	9	144	–	137	254
WRA 03 South Atlantic-Gulf	11 283	10 428	4 634	4 260	583	154	836	43	369	1 116
WRA 04 Great Lakes	3 157	3 067	713	1 795	267	71	250	25	250	421
WRA 05 Ohio	2 101	1 902	1 058	615	107	16	161	10	92	95
WRA 06 Tennessee	305	285	122	145	13	2	9	5	9	24
WRA 07 Upper Mississippi	3 016	3 016	852	1 679	155	148	268	–	270	255
WRA 08 Lower Mississippi	8 191	7 764	4 578	1 553	324	327	162	22	643	793
WRA 09 Souris-Red-Rainy	442	422	43	248	64	36	36	5	73	51
WRA 10 Missouri	38 042	36 665	9 171	17 058	3 998	2 958	3 339	3 582	4 410	3 237
WRA 11 Arkansas-White-Red	12 804	12 234	4 603	4 306	866	1 146	209	947	1 614	1 022
WRA 12 Texas-Gulf	8 867	8 468	4 563	2 247	968	–	139	58	1 074	664
WRA 13 Rio Grande	8 114	7 561	1 860	3 066	415	117	250	1 705	1 084	540
WRA 14 Upper Colorado	8 130	7 872	2 697	2 790	222	2	2	1 992	706	384
WRA 15 Lower Colorado	4 175	3 948	1 157	1 306	242	110	58	792	905	198
WRA 16 Great Basin	9 784	9 291	2 401	2 909	265	172	122	3 600	1 665	448
WRA 17 Pacific Northwest	41 604	39 867	10 848	17 724	2 172	929	1 736	5 445	7 747	2 375
WRA 18 California	49 126	47 950	10 290	20 690	5 225	509	1 590	5 273	12 767	3 135

Table 23. **Discontinuance of All Irrigation Since 1982 by Reason: 1984**

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Discontinued irrigation since 1982		Reported discontinuance to be permanent		Reason of discontinuance: Sufficient soil moisture		Shortage of surface water		Shortage of ground water	
	Farms	Acres irrigated in 1982	Farms	Acres irrigated in 1982	Farms	Acres irrigated in 1982	Farms	Acres irrigated in 1982	Farms	Acres irrigated in 1982
Conterminous United States	**15 677**	**1 336 461**	**3 950**	**419 754**	**4 819**	**296 056**	**1 021**	**54 778**	**101**	**6 561**
17 Western States, Arkansas, Florida, and Louisiana	**11 323**	**1 045 999**	**3 299**	**392 225**	**2 000**	**139 801**	**949**	**54 309**	**83**	**6 517**
Arizona	265	17 845	29	7 585	49	1 153	-	-	-	-
Arkansas	477	78 298	88	6 864	232	40 941	-	-	-	-
California	1 649	77 436	246	34 176	109	5 506	-	-	-	-
Colorado	659	72 748	135	15 416	101	1 204	50	1 000	-	-
Florida	851	75 004	199	24 566	205	12 838	-	-	19	57
Idaho	245	35 623	85	20 677	66	8 300	-	-	-	-
Kansas	167	81 900	40	26 600	-	-	-	-	34	5 440
Louisiana	468	29 509	156	6 447	92	8 781	-	-	-	-
Montana	568	61 316	117	17 655	126	5 825	255	22 619	-	-
Nebraska	1 149	86 762	797	48 075	2	(D)	-	-	-	-
Nevada	109	30 540	27	5 041	3	(D)	-	-	-	-
New Mexico	156	19 352	28	6 212	27	2 824	15	180	-	-
North Dakota	75	12 299	14	1 538	21	993	15	3 000	-	-
Oklahoma	182	20 735	34	3 960	29	2 000	10	600	-	-
Oregon	918	39 874	371	10 348	456	6 395	40	800	-	-
South Dakota	211	23 254	41	4 945	35	5 057	30	600	-	-
Texas	2 113	197 866	561	115 787	181	12 335	508	15 060	-	-
Utah	383	17 771	125	12 103	63	709	-	-	-	-
Washington	481	32 971	143	13 654	158	10 200	-	-	30	1 020
Wyoming	197	34 896	63	10 576	45	3 600	26	10 450	-	-
All other States	**4 354**	**290 462**	**651**	**27 529**	**2 819**	**156 255**	**72**	**469**	**18**	**44**
Water resources areas:										
WRA 01 New England	152	4 566	17	342	112	3 528	-	-	-	-
WRA 02 Mid-Atlantic	742	32 481	27	1 143	653	30 173	17	255	-	-
WRA 03 South Atlantic-Gulf	2 199	142 143	424	36 965	1 031	28 249	-	-	19	57
WRA 04 Great Lakes	421	20 789	152	3 095	219	8 123	-	-	-	-
WRA 05 Ohio	577	5 678	98	857	354	2 934	49	205	10	20
WRA 06 Tennessee	226	3 180	48	1 572	155	1 248	6	9	8	24
WRA 07 Upper Mississippi	421	46 813	2	2 195	355	40 298	-	-	-	-
WRA 08 Lower Mississippi	1 103	136 360	326	19 237	391	68 222	-	-	-	-
WRA 09 Souris-Red-Rainy	42	4 681	5	1 520	28	2 033	-	-	-	-
WRA 10 Missouri	2 522	355 626	1 169	113 319	250	50 361	319	33 736	-	-
WRA 11 Arkansas-White-Red	896	135 091	274	56 558	93	3 574	10	600	34	5 440
WRA 12 Texas-Gulf	1 496	145 190	339	64 251	181	12 335	229	14 225	-	-
WRA 13 Rio Grande	532	15 735	9	3 600	13	2 250	294	1 015	-	-
WRA 14 Upper Colorado	238	27 413	59	12 228	5	3 200	-	-	-	-
WRA 15 Lower Colorado	279	19 915	43	9 655	49	1 153	-	-	-	-
WRA 16 Great Basin	502	48 570	113	14 362	98	10 649	-	-	-	-
WRA 17 Pacific Northwest	1 680	114 794	599	44 679	723	22 220	97	4 733	30	1 020
WRA 18 California	1 649	77 436	246	34 176	109	5 506	-	-	-	-

Table 23. **Discontinuance of All Irrigation Since 1982 by Reason: 1984**—Con.

[Excludes irrigation data for Alaska, Hawaii, and abnormal and horticultural specialty farms]

Geographic and water resources areas	Reason of discontinuance—Con.							
	Uneconomical		Equipment failure		Loss of water rights		Other	
	Farms	Acres irrigated in 1982	Farms	Acres irrigated in 1982	Farms	Acres irrigated in 1982	Farms	Acres irrigated in 1982
Conterminous United States	**5 074**	**495 117**	**339**	**18 475**	**153**	**20 771**	**3 766**	**410 792**
17 Western States, Arkansas, Florida, and Louisiana	**4 522**	**415 329**	**257**	**13 890**	**153**	**20 771**	**3 000**	**361 629**
Arizona	106	9 462	31	3 645	3	(D)	69	2 890
Arkansas	141	6 917	-	-	-	-	104	30 440
California	1 435	39 005	-	-	-	-	100	18 830
Colorado	22	12 960	-	-	47	16 050	389	41 284
Florida	141	15 082	104	2 943	-	-	349	42 320
Idaho	56	14 980	-	-	-	-	123	12 343
Kansas	92	47 000	-	-	-	-	41	29 460
Louisiana	83	5 590	-	-	56	2 688	215	10 250
Montana	64	8 854	-	-	-	-	123	24 018
Nebraska	586	35 775	-	-	-	-	350	35 404
Nevada	41	2 396	13	520	-	-	47	20 584
New Mexico	68	7 937	-	-	1	(D)	45	6 861
North Dakota	4	1 600	10	1 138	-	-	34	5 586
Oklahoma	97	13 935	-	-	-	-	46	4 200
Oregon	199	12 607	-	-	-	-	182	18 965
South Dakota	59	8 740	23	598	-	-	53	6 807
Texas	1 063	154 812	-	-	-	-	361	15 659
Utah	49	(D)	27	1 350	46	138	198	13 243
Washington	214	12 668	29	696	-	-	67	7 317
Wyoming	2	(D)	20	3 000	-	-	104	15 168
All other States	**552**	**79 848**	**82**	**4 585**	**-**	**-**	**766**	**49 163**
Water resources areas:								
WRA 01 New England	6	566	16	44	-	-	18	428
WRA 02 Mid-Atlantic	31	326	16	176	-	-	41	1 727
WRA 03 South Atlantic-Gulf	382	44 615	105	4 438	-	-	629	63 020
WRA 04 Great Lakes	108	7 736	24	480	-	-	73	4 078
WRA 05 Ohio	58	1 246	21	295	-	-	79	534
WRA 06 Tennessee	18	326	3	(D)	-	-	29	490
WRA 07 Upper Mississippi	34	4 275	1	(D)	-	-	33	3 360
WRA 08 Lower Mississippi	171	12 454	-	-	56	2 688	463	50 796
WRA 09 Souris-Red-Rainy	-	-	1	(D)	-	-	13	1 528
WRA 10 Missouri	795	124 603	52	3 616	-	-	843	130 443
WRA 11 Arkansas-White-Red	498	97 487	-	-	47	16 050	161	10 350
WRA 12 Texas-Gulf	855	102 656	-	-	-	-	231	15 974
WRA 13 Rio Grande	16	304	-	-	-	-	209	12 116
WRA 14 Upper Colorado	49	2 331	-	-	-	-	184	21 882
WRA 15 Lower Colorado	106	9 462	44	4 165	4	1 895	69	2 890
WRA 16 Great Basin	41	2 396	27	1 350	46	138	285	33 737
WRA 17 Pacific Northwest	471	45 389	29	696	-	-	306	38 559
WRA 18 California	1 435	39 005	-	-	-	-	100	18 830

APPENDIX

Report Form

DUE DATE 20 DAYS AFTER RECEIPT OF FORM

OMB No. 0607-0480: Approval Expires September 30, 1985

FORM **84-A62** (1-15-85)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

NOTICE — Response to this inquiry is **required by law (Title 13, U.S. Code)**. By the same law YOUR REPORT TO THE CENSUS BUREAU IS **CONFIDENTIAL**. It may be seen only by sworn Census employees and may be used only for statistical purposes. Your report CANNOT be used for purposes of taxation, investigation, or regulation. The law also provides that copies retained in your files are **immune from legal process.**

Please mention the Census File Number (the 11-digit number in the upper left corner of the address label) if you write to us about this report.

1984 FARM AND RANCH IRRIGATION SURVEY

COMPLETE AND RETURN TO

Bureau of the Census
1201 East Tenth Street
Jeffersonville, Indiana 47132

NOTE

Consider as irrigated all land watered by any artificial or controlled means — sprinklers, furrows or ditches, spreader dikes, etc. Include preplant, partial, supplemental, or semi-irrigation. Include irrigation of pastureland, hayland, nonbearing orchardland, and cropland from which no crops were harvested in 1984. See additional instructions on page 4 for selected items.

(Please correct any error in name and address including ZIP code)

CENSUS USE ONLY 010 012 014 016 018 020 021 022

Item 1 **Was any land on the farm or ranch you operated irrigated at any time in 1984?**

024 1 ☐ YES — *Complete items 2 through 15 and 17*

2 ☐ NO — *Go to item 16*

Item 2 **ACREAGE IN 1984**

	None	Number of acres
a. All land owned	☐	025
b. All land rented or leased from others, including land worked on shares, used rent-free, in exchange for services, payments of taxes, etc. Include leased Federal, State, and railroad land. *(Do not include land used on a per-head basis under a grazing permit.)*	☐	026
c. All land rented or leased to others, including land worked on shares by others and land subleased	☐	027
d. **TOTAL ACRES IN THIS PLACE** — *ADD acres owned (item a) and acres rented (item b), then SUBTRACT acres rented to others (item c), and enter your answer in this space.* →		028

Item 3 **LAND USE IN 1984**

Distribute all acres in this place in column (1) and all irrigated land in this place in column (2) among items a through d. *If the same land had more than one use in 1984, report that land only once in the first use listed below that applies. (See page 4 for additional instructions.)*

	None	Number of acres (1)	None	Number of acres irrigated in 1984 (2)
a. **Cropland**				
(1) **Cropland harvested** — *Include all land from which crops were harvested or hay was cut, and all land in orchards, citrus groves, and vineyards*	☐	029	☐	030
(2) **Cropland used only for pasture or grazing** — *Include rotation pasture and grazing land that could have been used for crops without additional improvements*	☐	031	☐	032
(3) **Other cropland** — *Include cropland used for cover crops, cropland on which all crops failed, cropland in cultivated summer fallow, and cropland idle*	☐	033	☐	034
b. **Woodland** — *Include woodland pastured and woodland not pastured*	☐	035		
c. **Other pastureland and rangeland** — *Include any pastureland other than cropland and woodland pasture*	☐	037	☐	038
d. **All other land** — *Include here any land not reported above. Include land in house lots, barn lots, corrals, ponds, roads, wasteland, etc.*	☐	039		
e. **TOTAL ACRES** — *Please add the acres reported in items a through d and enter total in this space. (Should be the same as item 2d above.)* →		"IN THIS PLACE" 041		IRRIGATED 042

Item 4 **IRRIGATED AND NON-IRRIGATED YIELDS FROM SELECTED CROPS HARVESTED FROM THIS PLACE IN 1984**

(See page 4 for additional instructions.)

	None	Irrigated crop (Include preplant and supplemental or semi-irrigation. See page 4 for additional instructions.)					Non-irrigated crop	
		Irrigated acres harvested	Average yield per irrigated acre harvested	Estimated quantity of water applied per acre: Average acre-feet	or	Total inches	Non-irrigated acres harvested	Average yield per non-irrigated acre harvested
a. Corn (field) for grain or seed	☐	050	1 Bushels, shelled	2 /10	or	3	4	5 Bushels, shelled
b. Corn (field) for silage or green chop	☐	080	1 Tons, green	2 /10	or	3	4	5 Tons, green
c. Sorghums for grain or seed, including milo	☐	070	1 Bushels	2 /10	or	3	4	5 Bushels
d. Wheat for grain	☐	080	1 Bushels	2 /10	or	3	4	5 Bushels
e. Barley for grain	☐	090	1 Bushels	2 /10	or	3	4	5 Bushels
f. Soybeans for beans	☐	100	1 Bushels	2 /10	or	3	4	5 Bushels
g. Beans, dry edible	☐	110	1 Cwt.	2 /10	or	3	4	5 Cwt.
h. Rice	☐	120	1 Cwt.	2 /10	or	3		
i. Other small grains (oats, rye, etc.)	☐	130		2 /10	or	3	4	
j. Alfalfa and alfalfa mixtures for hay or dehydrating	☐	140	1 Tons, /10 dry	2 /10	or	3	4	5 Tons, /10 dry
k. All other hay including wild or native hay	☐	150	1 Tons, /10 dry	2 /10	or	3	4	5 Tons, /10 dry
l. Cotton	☐	160	1 Lbs. lint	2 /10	or	3	4	5 Lbs. lint
m. Sugar beets for sugar	☐	170	1 Tons	2 /10	or	3	4	5 Tons
n. Tobacco, all types	☐	180 /10	1 Pounds	2 /10	or	3	4 /10	5 Pounds
o. Potatoes, Irish	☐	190 /10	1 Cwt.	2 /10	or	3	4 /10	5 Cwt.
p. Land from which vegetables were harvested	☐	200 /10		2 /10	or	3	4 /10	
q. Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	☐	210 /10		2 /10	or	3	4 /10	
r. All other crops — *Specify* _____	☐	220		2 /10	or	3	4	
s. Pastureland, all types	☐	230		2 /10	or	3		

Item 5 **Did you have to discontinue irrigation during 1984 long enough to AFFECT crop yields for any of the following reasons?**

	Yes	No
a. Shortage of surface water (water from reservoirs, lakes, streams, water supply organizations, etc.)	234 1 ☐	2 ☐
b. Shortage of ground water (lowering water level of wells or depletion of ground water)	235 1 ☐	2 ☐
c. Irrigation equipment failure	236 1 ☐	2 ☐
d. Energy shortage	237 1 ☐	2 ☐
e. Poor water quality	238 1 ☐	2 ☐
f. Loss of water rights	239 1 ☐	2 ☐
g. Other — *Specify* _____	240 1 ☐	2 ☐

Item 6 **METHOD OF WATER DISTRIBUTION IN 1984** — ***Report acres irrigated by each type of FIELD distribution system listed below. If same land was irrigated by more than one method, report acres irrigated by each method used.***
(See page 4 for additional instructions.)

	None	Acres irrigated
a. Sprinkler irrigation		
(1) Center pivot	☐	241
(2) Mechanical-move — *Include both continuous or self-propelled and intermittent mechanical move systems such as sideroll, wheel move, end-tow, carriage with trailer lines, rotating boom, and big gun traveler*	☐	242
(3) Hand move	☐	243
(4) Solid set and permanent system	☐	244
b. Gravity irrigation		
(1) Gated pipe	☐	245
(2) Open ditch, siphon tubes	☐	246
(3) Flooding from underground pipe with valves, ditches, canals, dikes, and any other gravity method (excluding methods reported above)	☐	247
c. **Drip or trickle irrigation**	☐	248
d. **Subirrigation** (water applied beneath the ground; maintenance of water table at a predetermined depth)	☐	249

Item 7 **METHOD OF WATER DISTRIBUTION AND APPLICATION OF COMMERCIAL FERTILIZERS AND PESTICIDES IN IRRIGATION WATER BY SELECTED CROPS IN 1984**

Mark (X) all boxes that apply

	None	Method of water distribution				Application of commercial fertilizer or pesticides in irrigation water				
		Sprinkler	Gravity	Drip or trickle	Subirrigation	Commercial fertilizer	Insect control	Weed control	Nematode control	Disease control
a. Corn (field) for grain or seed	☐	260 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
b. Corn (field) for silage or green chop	☐	280 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
c. Sorghums for grain or seed including milo	☐	270 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
d. Wheat for grain	☐	280 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
e. Barley for grain	☐	290 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
f. Soybeans for beans	☐	300 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
g. Beans, dry edible	☐	310 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
h. Rice	☐	320 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
i. Other small grains (oats, rye, etc.)	☐	330 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
j. Alfalfa and alfalfa mixtures for hay or dehydrating	☐	340 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
k. All other hay including wild or native hay	☐	350 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
l. Cotton	☐	360 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
m. Sugar beets for sugar	☐	370 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
n. Tobacco, all types	☐	380 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
o. Potatoes, Irish	☐	390 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
p. Land from which vegetables were harvested	☐	400 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
q. Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	☐	410 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
r. All other crops	☐	420 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐
s. Pastureland, all types	☐	430 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐

Item 8 **OTHER USES OF IRRIGATION WATER ON THIS PLACE IN 1984**

Was irrigation used for any of the following secondary purposes?	None	Acres on which applied
a. Prevent freeze damage	☐	440
b. Crop cooling to delay early budding or blooming	☐	441
c. Leaching to remove salts from the soil (salinity control)	☐	442
d. Other — land disposal of liquid livestock waste, etc. — *Specify* _____	☐	443

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Item 9 **ACRES IRRIGATED AND ESTIMATED QUANTITY OF WATER USED IN 1984 BY SOURCE**

Report quantity of water in the unit or units of measure most convenient for you. If measurements are not available, give your best estimate for quantity of water used. If average acre-feet cannot be estimated, give combined pumping capacity and duration in days, or total depth of water applied.

a. Ground water from a well or wells located on this farm or another farm? ..... None 444 ☐ _____ Acres irrigated

Estimated quantity of water used in 1984 — *Report in unit most convenient for you*

(1) Average acre-feet per acre irrigated (one acre-foot covers one acre one foot deep) ... 445 _____ . 446 /10

OR

(2) Gallons of water applied and duration ..... 447 _____ Total gallons per minute; 448 _____ No. of 24 hour day equivalents water was applied.

OR

(3) Total inches applied — *Include all applications* ..... _____ Total inches

---

b. On-farm surface supply not controlled by a water supply organization (stream, drainage ditch, lake, pond, spring, or reservoir on or adjacent to this farm)? ..... None 449 ☐ _____ Acres irrigated

Estimated quantity of water used in 1984 — *Report in unit most convenient for you*

(1) Average acre-feet per acre irrigated (one acre-foot covers one acre one foot deep) ... 450 _____ . 451 /10

OR

(2) Gallons of water applied and duration ..... 452 _____ Total gallons per minute; 453 _____ No. of 24 hour day equivalents water was applied.

OR

(3) Total inches applied — *Include all applications* ..... _____ Total inches

---

c. Off-farm water suppliers (U.S. Bureau of Reclamation; irrigation district; mutual, private, cooperative, or neighborhood ditches; commercial company or municipal or community water system)? ..... None — *SKIP to item 10* ☐ 454 _____ Acres irrigated

(1) How much water was received? ..... 455 _____ Total acre-feet

(2) Total cost of water received — *Include all assessments, fees, or charges paid to water suppliers* ..... 456 _____ Dollars only

(3) Did you allow any of your regular allocation of water to be used by others in 1984? ..... 457 1 ☐ Yes — *Enter number of acre-feet* 458 _____ ; 2 ☐ No

Item 10 **NUMBER OF IRRIGATION WELLS ON THIS PLACE IN 1984, WELL DEPTH, AND PUMPING CAPACITY**

a. Wells used in 1984 ..... None 460 ☐ _____ Number of wells used

		Enter number of feet			
		Depth of well	Depth to water at start of irrigation season	Pumping depth (Depth to bowls or impellers)	Pump capacity (Discharge from well) *GPM*
(1) For places with 5 or less wells pumped in 1984, report the following information	Well number 1	461	1	2	3
	Well number 2	465	1	2	3
	Well number 3	469	1	2	3
	Well number 4	473	1	2	3
	Well number 5	477	1	2	3
		Average depth of well	Average depth to water at start of irrigation season	Average pumping depth (Depth to bowls or impellers)	Average pump capacity (Discharge from well) *GPM*
(2) For places with more than 5 wells pumped in 1984, report the average for all wells	All wells	481	1	2	3

b. Wells not used in 1984, but capable of being used *(Exclude abandoned wells.)* ..... None 485 ☐ _____ Number of wells not used

CENSUS USE ONLY 486

Item 11 **PUMPS OTHER THAN WELL PUMPS ON THIS PLACE IN 1984**

Report all pumps on this place whether they are in service or not, USED FOR —

	None	Number of pumps	Average discharge capacity *GPM*
a. Tailwater pits	☐	490	491
b. Ponds, lakes, reservoirs, rivers, etc.	☐	492	493
c. Relifting or boosting water within system	☐	494	

Item 12 **ENERGY USE ON THIS PLACE IN 1984 FOR PUMPING IRRIGATION WATER BY POWER SOURCE** — *Include 1984 fuel adjustment cost.* *(See page 4 for additional instructions.)*

	None	Number of wells or pumps powered by type of energy used	Total cost of fuel used *CENTS NOT REQUIRED* — Dollars	Cents	Acres irrigated by type of energy used
a. Electricity	☐	495	496 $		497
b. Natural gas	☐	498	499 $		500
c. LP gas, propane, or butane	☐	501	502 $		503
d. Diesel fuel	☐	504	505 $		506
e. Gasoline and gasohol	☐	507	508 $		509

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Item 13 **MAINTENANCE AND REPAIR COSTS FOR IRRIGATION EQUIPMENT AND FACILITIES ON THIS PLACE IN 1984**

(See additional instructions at bottom of page.)

	None	CENTS NOT REQUIRED Dollars	Cents
a. Amount spent for maintenance and repairs of irrigation equipment and facilities in 1984 including maintenance of on-farm ditches. *Include landlord's share — Give estimate if actual figures are unavailable.*	☐	510 $	

Item 14 **EXPENDITURES IN 1984 FOR IRRIGATION WELLS, PUMPS, EQUIPMENT, AND OTHER IRRIGATION FACILITIES ON THIS PLACE**

Report expenditures in 1984 for irrigation facilities on this place whether made by you or someone else. Include landlord's share — *Give estimates if actual figures are unavailable.* *(See additional instructions at bottom of page.)*

	None	Total expenditures CENTS NOT REQUIRED Dollars	Cents	Purpose of expenditure *Mark (X) principal purpose* Replacement	Conservation	New expansion
a. Purchase of irrigation equipment and machinery — *Include sprinklers, pipes, siphons, nozzles, pumps, motors, and engines at net cost*	☐	511 $		512 1☐	2☐	3☐
b. New well construction or deepening of existing wells — *Include drilling costs, cost of casing, and any costs to prepare well for installation of pump. (Do not include cost of pumps and motors.)*	☐	516 $		518 1☐		3☐
c. Construction or improvement of permanent storage and distribution systems (dams, ponds, reservoirs, permanent ditches, canals, flumes, etc.)	☐	519 $		520 1☐	2☐	3☐
d. Land clearing and leveling for irrigation purposes	☐	523 $			524 2☐	3☐

Item 15 **METHOD OF DECIDING WHEN TO APPLY WATER IN 1984**

How did you decide when to apply water in 1984? — *Mark (X) all that apply.*

527
- 1☐ Condition of crop (observation)
- 2☐ Feel of the soil
- 3☐ Use of soil moisture sensing devices such as moisture blocks or tensiometers
- 4☐ Use of commercial scheduling service
- 5☐ Media reports on crop-water needs (newspapers, radio, and TV)
- 6☐ Water delivered by irrigation organization in turn (no choice by water user)
- 7☐ By calendar schedule
- 8☐ Other — *Specify* _____

Item 16 **IRRIGATED LAND IN 1982**

a. Was any land irrigated on this place in 1982? ***Do not answer this item if you irrigated any land in 1984.***

528
- 1☐ Yes — *Answer b and c below*
- 2☐ No — *Go to item 17*

b. Reason for discontinuing irrigation in 1984 — *Mark (X) any of the following that apply.*

529
- 1☐ Sufficient soil moisture — no irrigation needed
- 2☐ Shortage of surface water (water from reservoirs, lakes, streams, water supply organizations, etc.)
- 3☐ Shortage of ground water (lowering water level of wells or depletion of ground water)
- 4☐ Irrigation uneconomical due to high fuel and power costs and/or low commodity prices
- 5☐ Irrigation equipment failure
- 6☐ Loss of water rights
- 7☐ Other — *Specify* _____

c. Do you consider your discontinuance of irrigation to be permanent?

530
- 1☐ Yes
- 2☐ No

Item 17 **PERSON COMPLETING THIS FORM** — ***Please print***

Name	Date	Telephone Area code 531	Telephone Number 532

ADDITIONAL INSTRUCTIONS

NOTE — In completing this form, if exact figures are not available, give your best estimate. An estimate is more useful than an omitted answer.

▶ **Item 3 — Land Use and Irrigated Land Uses in 1984** — All acres "In This Place" must be distributed among the land use categories in item 3. Each acre "In This Place" should be reported only once, in the first category that applies.

Similarly, for each category of Land Use, report the acres irrigated in 1984, in the appropriate category.

Report all cropland, pastureland, and rangeland watered by artificial means at any time during 1984. In addition to fully irrigated land, report as irrigated any lands to which supplemental water was applied. This may be considered as partial, supplemental, or semi-irrigation. Also include any acreage which received only preplant irrigation (watered before planting). Haylands, pastureland, or rangeland should be reported as irrigated if spring flood water is spread by canals, ditches, spreader dikes, pipes, or other works.

▶ **Item 4 — Irrigated and Non-Irrigated Crop Yields** — For each crop harvested, report separately the acres and average yield from irrigated land and non-irrigated land.

Report harvested crops as irrigated if any water was artificially applied either before planting or during the crop growing season in 1984. Report the crop as irrigated if water was applied to supplement rainfall even if the amount of water applied was not sufficient to obtain maximum yields.

Please give your best estimate of the quantity of water applied per acre for each irrigated crop. Report in either average acre-feet (one acre-foot covers one acre one foot deep) or total inches applied.

▶ **Item 6 — Method of Water Distribution** — This item refers to the method used to spread the water over the land. Report the acres of land irrigated by each type of field distribution system listed. Do not confuse the delivery system used to convey water from the source to the field with the field distribution system.

▶ **Item 12 — Energy Use for Irrigation Pumping** — Report the expenditure for fuel and power used in 1984 for irrigation pumping on this place and the acres irrigated by each type of energy used. Include in the cost figures any additional charges by the power of fuel suppliers such as the "fuel adjustment charge" or any other type of additional charge which is based on the amount of power or fuel purchased. Again, give best estimates if actual figures are not available.

▶ **Item 13 — Maintenance and Repair Cost** — Report all expenses in 1984 for keeping irrigation equipment and facilities in working order. Include expenses for tune-ups, oil changes, and repairs to pumps, motors, pipe, canals, sprinkler systems, etc. Also include expenses for ditch and canal cleanout.

▶ **Item 14 — Irrigation Expenditures** — Report expenditures made in 1984 for the construction of irrigation facilities and purchase of irrigation equipment and machinery on this place. Include estimates of expenditures made by or shared with others (landlords, government agencies, etc.). Report cost of maintenance and repairs in item 13.

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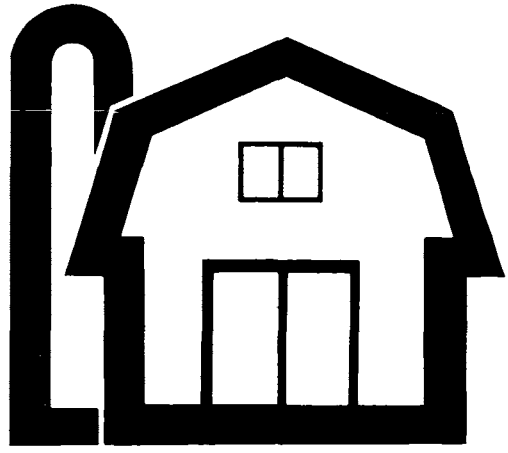

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The reports include data on:

- Number of farms
- Land in farms
- Farm operator characteristics
- Tvpe of organization
- Land use
- Size of farms
- Market value of agricultural products sold
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- Poultry and livestock products
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