## CHAPTER I Continued

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

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

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

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

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

(U.S. average yield - 100)

Farms With Sales of \$2,500 and Over	U.S. average yield per acre		Index for 17 Western States and Louisiana		Index for 30 Eastern States, Alaska, and Hawaii	
	Average yield	Index	Crop wholly irrigated	Crop non- irrigated	Crop wholly irrigated	Crop non- irrigated
Alfalfa hay	2.6 71.7 10.7 43.0 26.9 37.5 47.2 23.9 13.6 240	100 100 100 100 100 100 100 100 100	154 143 153 164 170 164 118 123 136	67 79 52 85 91 80 77 98 44	115 124 153 149 104 150 123 112 95	105 98 108 109 123 115 116 100 92 22
Cottonbales  Tobaccopounds.  Irish potatoeshundredweight.  Sugar beets for sugartons.  Vegetables, sweet corn, or melons for  saledollars.  Land in orchardsdollars.	.9 1988 236.1 18.5 762 676	100 100 100 100 100	156 118 116 156 122	61 42 66 62 49 57	117 106 103 89 136 78	95 100 84 73 47 84

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

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

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

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

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