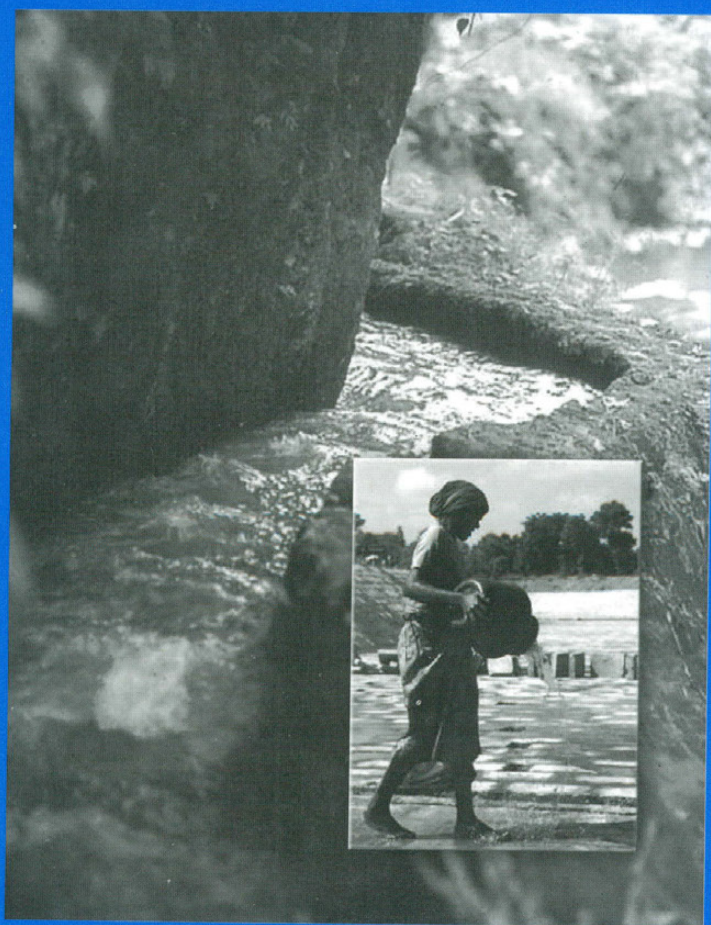


# World Irrigation and Water Statistics 2002

With a Guide to Data Sources



# **World Irrigation and Water Statistics 2002**

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with a guide to data sources

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# Preface

Welcome to the first issue of *World Irrigation and Water Statistics*. This is probably the first attempt to compile a worldwide set of data on irrigation, and of related statistics on water resources and water use.

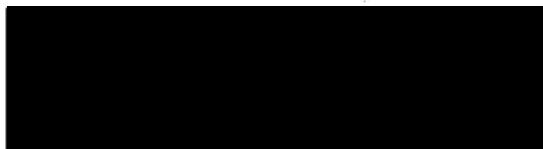
This resource was created to give researchers, planners and other water stakeholders rapid and easy access to available data. It also identifies the important sources of data on irrigation and water resources. The data presented here is compiled from a range of published sources, including the Food and Agriculture Organization (FAO), national agencies and from data compilations of other individuals and agencies around the world.

The data is presented at two scales. Part I contains statistics at a national and global level. Part II contains provincial or state data for China, India, and Pakistan which together account for one half of the world's irrigated area. An Appendix provides a guide to data sources.

Our goal is to publish this report periodically so that it becomes a dynamic, 'living' resource, that responds to the needs of the international community of irrigation and water resources professionals. We will update existing data, add new information as it becomes available and include new sources of information and analytical charts and tables.

Above all, we request your input to identify other sources of data that should be included and to suggest how we can make this publication more useful for you and your colleagues.

We hope you find this first issue useful.



Frank R. Rijsberman  
Director General International Water Management Institute



# Perspectives on Irrigation and Water Resources

This section presents several views on irrigation and water resources from the data in this volume. The purpose is to illustrate how this data can be interpreted to present interesting perspectives and examine topical questions related to irrigation and water resources development. The IWMI research team is interested to see how this data is being used.

To ask a question, or share your analyses and perspectives created with these data sets with colleagues around the world, please send an e-mail to [waterstats@cgiar.org](mailto:waterstats@cgiar.org). World Irrigation and Water Statistics is also available at [www.iwmi.org/waterstats](http://www.iwmi.org/waterstats).

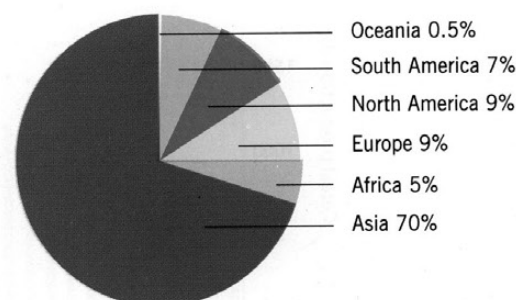
## Irrigated Area of the World

We do not yet have an accurate estimate of the world's irrigated area, but FAO data provide us with a rough approximation. According to the FAO, 70% of the world's irrigated area is in Asia (Fig. 1) with India, China, and Pakistan together accounting for approximately 50% (Table 1). By contrast only 5% of the irrigated area is in Africa.

Asia's strategy for improving water management for agriculture has been focused on improved management of irrigation systems. There has been considerable investment in large-scale irrigation systems in Africa in the recent past. But given the very small area under irrigation in Africa, the future strategy is likely to focus on enabling smallholders to make more effective use of rainwater, and to tap local water sources such as small wetlands and shallow groundwater in a sustainable way.

Figure 1.

**Distribution of Irrigated Area by Continent, 1999**



Source of data: Statistical databases of the Food and Agriculture Organisation, 1999.

Table 1.

**Top Ten Countries in Terms of Irrigated Area, 1999.**

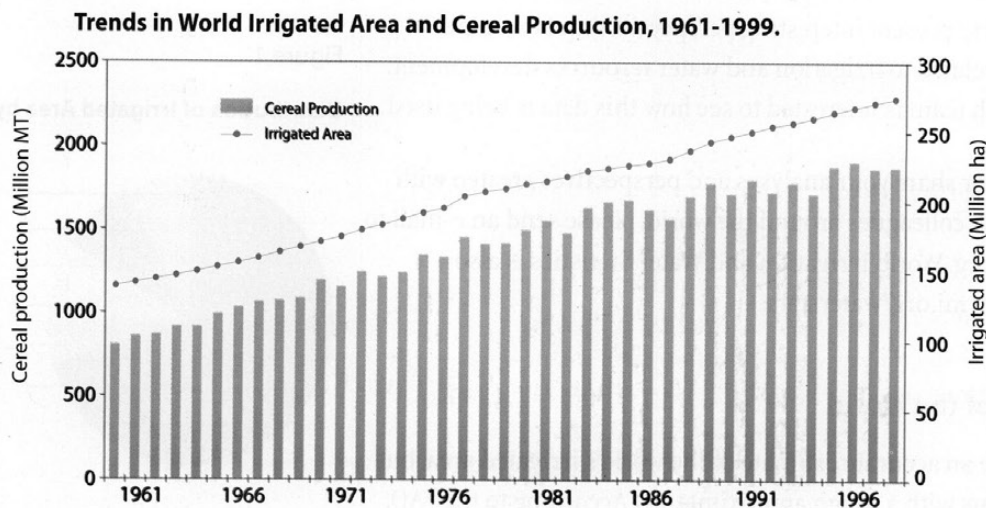
Country	Area ('000 ha)	% of world share
India	59000	22
China	53740	20
USA	22400	8
Pakistan	17950	7
Iran	7562	3
Mexico	6500	2
Indonesia	4815	2
Thailand	4750	2
Russian Federation	4600	2
Turkey	4500	2

Source of data: Statistical databases of the Food and Agriculture Organization, 1999.



The International Water Management Institute has launched a project to map the world's irrigated area. This work is being undertaken with a number of partners and Future Harvest research centers as a part of the Comprehensive Assessment of Water in Agriculture. The objective of this

Figure 2.



Source of data: Statistical databases of the Food and Agriculture Organization, 1999.

program is to carry out a comprehensive analysis of the benefits and costs of irrigation development over the past 50 years and to provide insights on the future direction of irrigated agriculture.

### Irrigated Area and Cereal Production

Over the past four decades, the world's irrigated area has nearly doubled while the world cereal grain production has increased by 133%. (Fig. 2).

Table 2.

**Top Ten Countries with Largest Harvested Area of Cereals – 1999.**

Country	Cereal Area		% of total crop area irrigated
	('000 ha)	% of world total	
India	101555	15.1	28.2
China	92007	13.7	37.3
USA	58530	8.7	21.5
Russia	37069	5.5	6.7
Nigeria	18491	2.8	0.3
Brazil	17457	2.6	7.0
Canada	17456	2.6	2.7
Australia	16612	2.5	10.2
Indonesia	15420	2.3	7.1
Turkey	13208	2.0	3.6

Source of data: Statistical databases of the Food and Agriculture Organization, 1999.

Note: Total crop area is the sum of harvested areas of cereals, fruits, pulses, fiber crops, oil crops, roots and tubers and vegetables.

This growth in irrigated area and associated growth in cereal grain production provided food for a rapidly growing population and contributed significantly to a decline in poverty.

The world's largest cereal grain producers are India and China (Table 2). In these countries and other Asian countries most of the cereal grain is irrigated. By contrast, other major cereal grain producers like USA, Russia, Brazil, Canada, and Australia depend on a more favorable rainfall pattern and most of the irrigation is for non-cereal crops.

### Investments in Large Dams and Canal Irrigation are on the Decline

The rapid growth in irrigated area and cereal grain production was made possible by the construction of large dams. Over 90% of all large dams were constructed after World War II with China accounting for more than a quarter of the total.

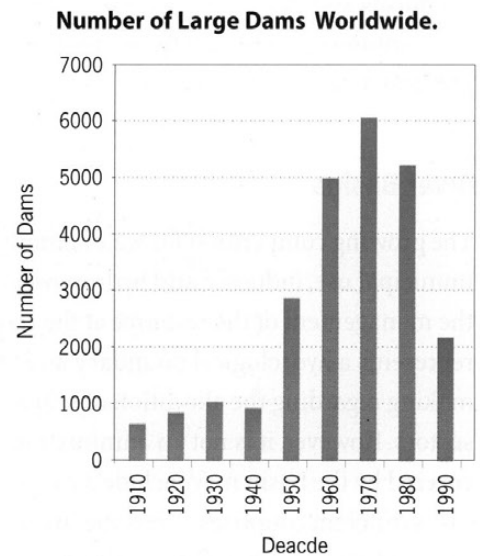
The number of new dams constructed grew rapidly beginning in the 1950s to the 1970s (Fig. 3). However, beginning in the 1980s there were mounting concerns about the cost of dam construction in terms of displaced persons and environmental damage. These concerns and other factors including the rise in construction costs and decline in cereal grain prices have led to a sharp decline in number of new dams being constructed.

### Groundwater Use is on the Rise

There has been a steady increase in the utilization of groundwater and recycling of surface water over the past four decades to the extent that in both India and China (where data are available) area irrigated by groundwater now exceeds area irrigated by surface water (Fig 4a+4b). In many river basins, there is a close association between the development of surface and groundwater sources. The seepage and percolation from canal irrigated areas initially raises the groundwater table facilitating the use of low lift pumps. Improvements in technology for groundwater extraction lower costs of equipment, and the fact that tubewells can deliver water to fields on demand have all contributed to the rapid expansion of groundwater use.

This expansion is leading in many areas to the overexploitation of groundwater. Groundwater mining is most prevalent in the semi-arid areas where water tables are frequently falling by as much as a meter a year. Groundwater quality is also deteriorating due to a number of

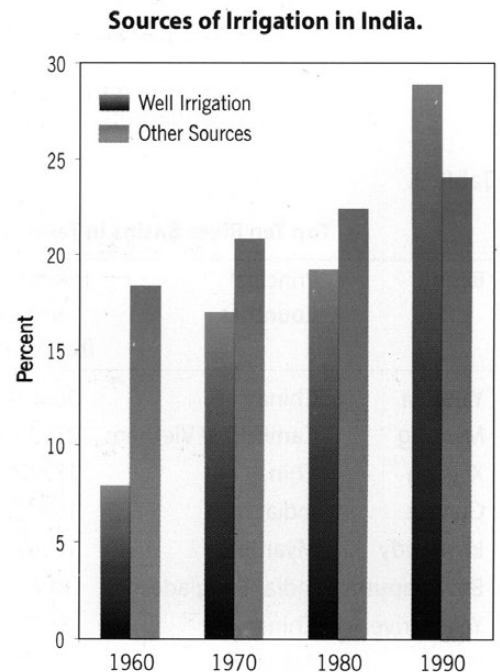
Figure 3.



Sources:

- i. For China, International Commission on Large Dams (1998) World Register of Dams. Paris
- ii. For rest of the world, World commission on Dams (2000) Dams and Development: A new Framework for Decision Making. London : Earthscan

Figure 4a.



• Decades are represented by years 1965, 1978, 1984 and 1995 respectively.

Source: Fertilizer Association of India Fertilizer Statistics: New Delhi (various issues).

factors such as salinization and intensive application of agricultural chemicals and other waste products leaching through the soils. Managing common-property groundwater resources for sustainable use presents a major challenge.

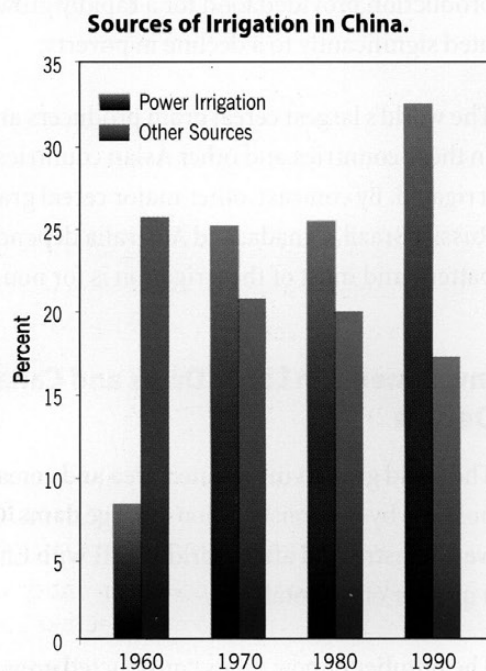
### River Basins

The growing competition for water among various users (irrigation, municipal use, industry, and hydropower) has focused more attention on the management of the resource at the river basin level. The river basin represents a hydrological boundary and thus a natural unit for decision making regarding the allocation of scarce water among competing sectors. However, it is not an administrative unit and the territory covered by the basin may include a range of different units and in some cases different countries. Thus the institutional structures that govern the allocation of water differ widely from basin to basin.

IWMI researchers are giving increased attention to the study of river-basin dynamics—the bio-physical and socio-economic changes that occur in a basin as the demand for water increases over time.

Table 3 shows the top ten river basins in terms of area irrigated. These ten river basins account for approximately half of the world's irrigated area and are inhabited by a quarter of the world's population. Three of the basins are in China, four in South Asia, and three in Southeast Asia.

Figure 4b.



• Decades are represented by years 1965, 1978, 1984 and 1995 respectively.

Source: China Statistics Press. China Statistical Yearbook: Beijing (various issues). Area irrigated by power is the total irrigated area minus area irrigated by reservoirs.

Table 3.

#### Top Ten River Basins in Terms of Area irrigated.

Basin	Principal Countries	Irrigated area (ha "000")	Population	
			Million People	As a % of world Population
Yangtze	China	30861	386	6.7
Mekong	Cambodia/Vietnam	23267	63	1.1
Xi jiang	China	18982	86	1.5
Ganges	India	10822	381	6.6
Irrawaddy	Myanmar	10003	33	0.6
Brahmaputra	India/ Bangladesh	8878	113	2.0
Yellow river	China	8770	153	2.7
Indus	Pakistan	7843	157	2.7
Chao Praya	Thailand	7565	21	0.4
Krishna	India	5906	56	1.0

Source of data: Revenga, Carmen, S. Murray, J. Abramovitz and A. Hammond. 1998. Watersheds of the World: Ecological Value and Vulnerability. Washington DC: World Resources Institute, and World-Watch Institute.

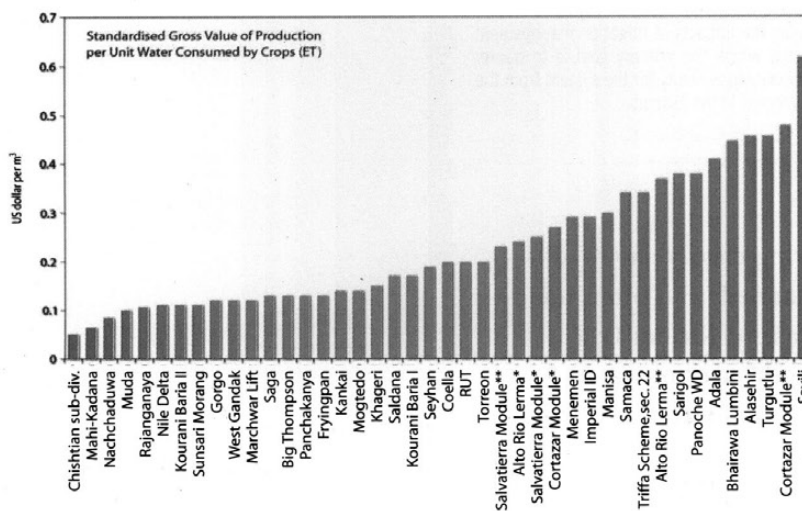
# Other Water Resources Data Sources and Tools

## Irrigation Performance Indicators

Comparative performance indicators make it possible to see how well irrigated agriculture is performing at the system, basin or national scale. As a tool for measuring the relative performance of irrigation systems or tracking the performance of individual systems the IWMI comparative performance indicators help:

- **Policy makers and planners** to evaluate how productively land and water resources are being used for agriculture, and to make more informed strategic decisions regarding irrigation and food production.
- **Irrigation managers** to identify long-term trends in performance, to set reasonable overall objectives and to measure progress.
- **Researchers** to compare irrigation systems and identify factors that lead to better performance.
- **Donor agencies, governments and NGOs** to assess the impact of interventions in the irrigation sector and to design more effective interventions.

**Comparing the performance of 42 irrigation schemes across Asia, Africa and the Americas.**



## The IWMI comparative irrigation performance indicators

<p>1. Output per cropped area = <math>\frac{SGVP}{\text{Irrigated cropped area}}</math></p> <p>2. Output per unit command = <math>\frac{SGVP}{\text{Command area}}</math></p> <p>3. Output per unit irrigation supply = <math>\frac{SGVP}{\text{Diverted irrigation supply}}</math></p> <p>4. Output per unit water consumed = <math>\frac{SGVP}{\text{Volume of water consumed by ET}}</math></p>	<p><b>How productively are water and land being used?</b></p> <p>These four indicators relate the monetary value of the system's final output, agricultural production, to the inputs of water and land. By standardizing the gross value of agricultural production (see above) and relating it to inputs common to all systems (water and land), these indicators make it possible to compare the performance of radically different systems.</p> <p>Output per unit of land is expressed in US dollars per hectare. Output per unit at water is expressed in US dollars per cubic meter.</p>
<p>5. Relative water supply = <math>\frac{\text{Total water supply}}{\text{Crop demand}}</math></p>	<p><b>Is there enough water available to meet crop demand?</b></p> <p>This indicator relates the water available for crops (including surface irrigation, groundwater pumped and rainfall) to the amount that crops need.</p>
<p>6. Relative irrigation supply = <math>\frac{\text{Irrigation supply}}{\text{Irrigation demand}}</math></p>	<p><b>Are crops getting enough water or too much?</b></p> <p>This indicator shows how well irrigation supply and demand are matched—a value over one would suggest too much water is being supplied; a value less than one indicates that crops aren't getting enough water.</p>
<p>7. Water delivery capacity (%) = <math>\frac{\text{Canal capacity to deliver water at system head}}{\text{Peak consumptive demand}}</math></p>	<p><b>Is irrigation system design constraining agricultural production?</b></p> <p>This indicator reveals whether irrigation infrastructure is a constraint to increased cropping intensity.</p>
<p>8. Gross return on investment (%) = <math>\frac{SGVP}{\text{Cost of irrigation infrastructure}}</math></p>	<p><b>Is irrigation a good investment in a given environment?</b></p> <p>As this indicator is applied to more systems, it is giving planners and policymakers information on how, where and how much they should invest in irrigation.</p>
<p>9. Financial self-sufficiency = <math>\frac{\text{Revenue from irrigation}}{\text{Total O\&amp;M expenditure}}</math></p>	<p><b>Is the system financially sustainable?</b></p> <p>This indicator shows how much of the money spent on operations and maintenance is generated locally. It is particularly important for gauging the impacts of irrigation management transfer, where the primary goal is to transfer financial responsibility for the system from the government to the farmers.</p>

$$SGVP = \left( \sum_{\text{crops}} A_i Y_i \frac{P_i}{P_b} \right) P_{\text{world}}$$

where,

$A_i$  is the area cropped with crop  $i$ ,

$Y_i$  is the yield of crop  $i$ ,

$P_i$  is the local price of crop  $i$ ,

$P_b$  is the local price of the base crop (the predominant locally-grown, internationally-traded crop) and

$P_{\text{world}}$  is the value of the base crop traded at world prices.

The *Standardized Gross Value of Production (SGVP)* makes it possible to compare the performance of systems, no matter where they are or what kind of crops are being grown. Output per unit of water used to grow oranges in Mexico can be compared with that of water used to grown apples in Nepal. The SGVP captures both local preferences—for example, specialized crops that may have a low international price, but a high local value—and the value of non-traded crops.

## Water Accounting

**How is water being used?** Water accounting clearly shows all users of water in a basin, including unplanned, and often unacknowledged users, such as trees. In the case of Kirindi Oya Subbasin, trees are revealed to be the largest user of water—consuming a surprising 43 percent of the total water available.

Although trees are an important natural resource—improving biodiversity within irrigated areas and providing people with food, medicine, fuel wood, a pleasant environment and raw materials for handicrafts—they are rarely considered in water resources planning. Water accounting helps water managers take a more integrated approach that more accurately reflects the reality of water use.

**Where can water be saved?** In the Kirindi Oya, water saving strategies should focus on reducing the flow of irrigation drainage water to the sea. Currently, downstream irrigation tanks (holding-ponds) are filled directly from the main reservoir—reducing their ability to catch rainwater and drainage flows from upstream.

By changing this practice, so that upstream areas are irrigated first and downstream tanks are used to catch drainage, enough water could be saved in the reservoir for a second cropping season—96 million cubic meters in the year studied (1998). Alternatively, drainage flows can be minimized by more closely matching the amount of irrigation water supplied to crops' actual needs. Finally, by reducing the evaporation from scrubland, fallow fields and surface water bodies another 56 million cubic meters could potentially have been saved.

**How much water for natural ecosystems?** 47 million cubic meters of water per year were designated as committed outflow to maintain the downstream Ramsar Convention wetland, Bundala National Park. But this is only a rough estimate of how much water this fragile ecosystem really requires. More research is needed to accurately quantify environmental water needs in many of the developing world's river basins.

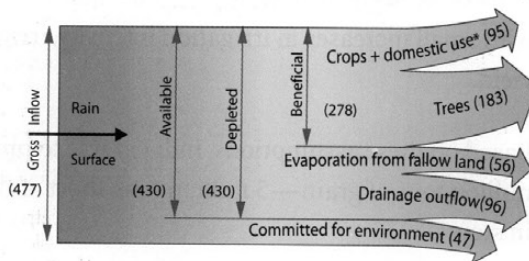
## PODIUM, the Policy Dialogue Model

PODIUM helps countries determine future directions for agricultural and water resources policy. It enables them to explore potential demand and supply scenarios for food and water in 2025.

In the base scenario shown here, calorie intake increases from 2,394 (the value for 1995) to 2,812. There is a shift towards consumption of more meat products (from 7% of total calories in 1995 to 11% in 2025) and less cereal (from 63% of total calories to 58%). Import and export volumes are assumed to be zero.

Here, India's domestic grain consumption increases from 172 to 269 million metric tons. The country would need to produce an additional 97 million metric tons of grain to feed its population in 2025. More details can be found at <http://www.iwmi.org/tools/podium.htm>

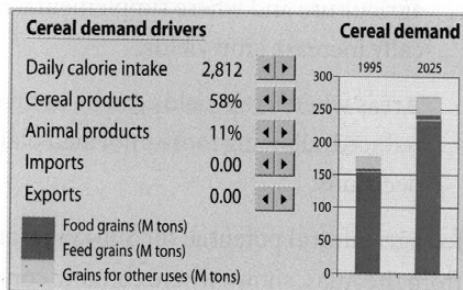
**Water accounting diagram for Kirindi Oya Subbasin, Sri Lanka**



(figures in millions of cubic meters)

\*The amount of water used for domestic purposes and most other income-generating activities is negligible when compared to the amount consumed by crops.

**Cereal requirement for India in 2025**



## Cereal production in India in 2025

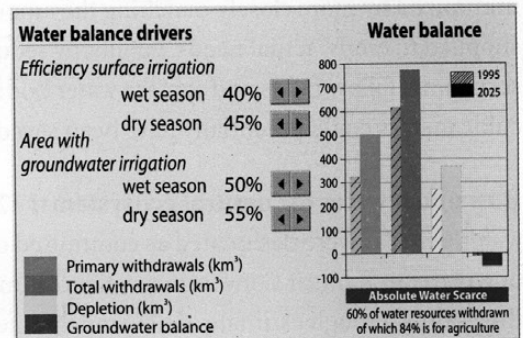
In the example scenario for India, the area under cultivation is assumed to increase slightly. Around 16 million additional hectares are irrigated, with small increases in irrigation intensity, irrigated yield, and rain-fed yield.

Based on these assumptions, India is able to produce a total of 302 million tons of grain—5 million tons short of the demand estimated in step 1.

## India's water demand and supply in 2025

In the example scenario for India, there is reasonable gain in surface irrigation efficiency, and 50% of the irrigated area is irrigated with groundwater. The model shows that there is a deficit of 36 km<sup>3</sup>, which is assumed to come from groundwater. In this scenario, groundwater use is unsustainable—36 km<sup>3</sup> more water is being extracted from the country's aquifers than is available to replenish them.

## India's water demand and supply in 2025



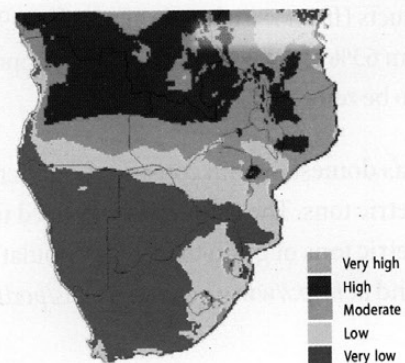
## World Water and Climate Atlas

With input from some 56,000 weather stations, the IWMI World Water and Climate Atlas gives agricultural planners rapid access to the best available data on climate and moisture availability for agriculture. The Atlas helps identify:

- Areas where rainfed agriculture could be expanded.
- Areas that have potential for further development of rainfed agriculture and where supplemental irrigation could dramatically increase crop yields.
- Areas where crop yields can be increased and food security risks reduced, allowing more informed planning and investment decisions.

Rainfed agricultural potential for Sub-Saharan Africa. This map, generated from the Atlas, shows where climatic conditions are favorable for rainfed agriculture. This picture can be further refined with the addition of data on soil type, elevation and land cover. More details can be found at <http://www.iwmi.org/WAtlas/atlas.htm>

## Rainfed crop potential



# Remote Sensing

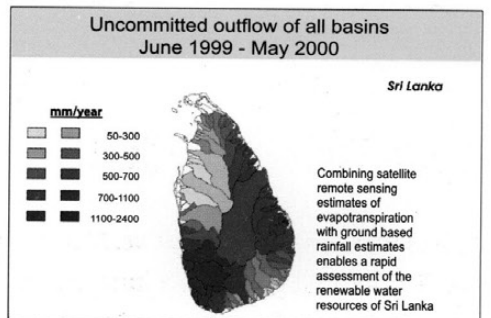
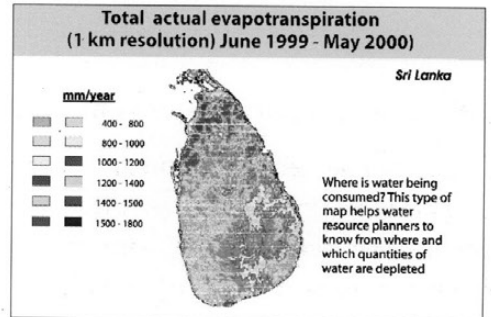
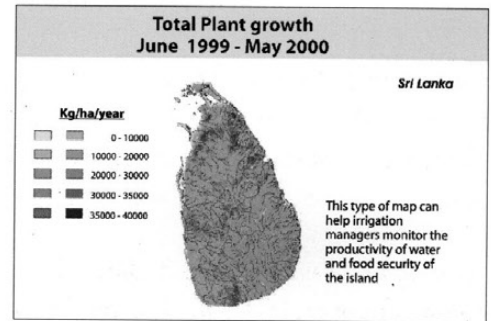
Many developing countries receive daily low-cost satellite images for their weather forecasting. IWMI researchers have developed methods to interpret this same information to give a more precise view of:

- Where freshwater enters the ecosystem—as rain.
- Where water leaves the system—through evaporation, runoff into the sea, or use by plants and people.

Using satellite remote sensing information, planners and policy makers can make more effective decisions to ensure a stable supply of water for food and the environment.

At the country, river basin or field scale, these remote sensing tools help answer questions such as:

- What is the scope for developing additional water resources?
- Where is the potential for increasing the productivity of water in agriculture?
- Where can water be reallocated from one area—or use—to another to best fulfill the needs of all users?
- Where is water in an irrigation system reaching, or not reaching, crops?





Many behaviors are not directly related to the sex ratio. For example, female birds often sing to attract mates, and some species of fish guard their eggs.

- What are the costs of the sex ratio?
- What are the benefits of the sex ratio?
- How do these costs and benefits affect the sex ratio?

Being able to predict the sex ratio of offspring can be useful in many situations. For example, parents can adjust their sex ratio to match the environment.

The sex ratio is a key component of the theory of evolution. It helps explain why some species have more males than females.

- What are the costs of the sex ratio?
- What are the benefits of the sex ratio?
- How do these costs and benefits affect the sex ratio?

What are the costs of the sex ratio? One cost is that producing one sex is often more expensive than producing the other.

What are the benefits of the sex ratio? One benefit is that having a balanced sex ratio can increase the chances of finding a mate.

**Data Tables**

**Part I**

**National-Level Data for Selected Countries**



**Part I: Table 1**

**Net Irrigated Area by Country ('000 ha )**

**The World and Regions**

Year	1 World	2 Asia	3 Africa	4 Europe	5 North America	6 South America
1961	138,813	95,703	7,364	12,187	14,801	8,130
1962	141,487	97,319	7,359	12,598	15,239	8,314
1963	144,142	99,063	7,403	12,944	15,575	8,514
1964	146,764	100,792	7,483	13,203	15,899	8,668
1965	149,740	102,904	7,747	13,294	16,144	8,847
1966	153,028	105,302	7,926	13,605	16,287	9,061
1967	155,939	107,327	8,052	13,999	16,521	9,238
1968	159,359	109,898	8,098	14,352	16,754	9,468
1969	163,539	113,102	8,206	14,688	16,940	9,725
1970	167,335	115,984	8,426	14,917	17,140	9,999
1971	171,060	118,178	8,547	15,787	17,367	10,350
1972	174,723	120,495	8,619	16,444	17,581	10,766
1973	179,657	124,101	8,742	17,123	17,803	11,105
1974	183,214	126,354	8,845	17,784	18,024	11,449
1975	187,568	129,706	8,937	18,256	18,075	11,860
1976	191,951	132,475	8,991	19,176	18,169	12,462
1977	195,438	134,989	9,044	19,777	18,248	12,752
1978	203,657	138,532	9,205	20,340	21,970	13,009
1979	207,091	140,865	9,238	20,879	22,217	13,305
1980	209,265	142,350	9,407	21,048	22,278	13,598
1981	212,519	144,515	9,537	21,627	22,342	13,778
1982	214,571	146,499	9,633	22,076	21,656	14,013
1983	218,003	149,332	9,821	22,569	21,702	13,896
1984	222,033	151,978	10,124	23,061	22,101	14,089
1985	223,720	152,789	10,229	23,546	21,811	14,620
1986	226,105	154,061	10,480	24,284	21,830	14,671
1987	227,565	156,042	10,550	24,639	20,776	14,720
1988	230,601	157,438	10,702	24,788	21,701	15,131
1989	236,876	162,062	10,882	24,892	22,626	15,600
1990	243,028	166,700	11,123	25,292	22,922	16,182
1991	246,717	169,902	11,226	25,177	22,929	16,496
1992	250,317	171,868	11,690	25,267	23,440	17,015
1993	254,213	175,205	12,188	25,093	23,443	17,212
1994	256,741	177,133	12,190	24,925	23,468	17,677
1995	260,083	179,906	12,254	25,142	23,484	17,873
1996	264,117	184,046	12,263	24,916	23,484	17,884
1997	267,727	187,194	12,314	24,777	23,484	18,334
1998	271,129	189,756	12,520	24,627	24,309	18,553
1999	274,166	192,962	12,538	24,406	24,413	18,601

Source: Food and Agriculture Organisation of the United Nations.

Notes: Countries included are those reporting more than 100,000 ha of irrigated area.

South America includes Caribbean countries. Regional figures include countries that are not listed here.

( Contd.)

Part I: Table 1 (Contd.)

Net Irrigated Area by Country ('000 ha)

Asia and Oceania

Year	7 Afghanistan	8 Australia	9 Bangladesh	10 Cambodia	11 China	12 India
1961	2,160	1,001	426	62	30,402	24,685
1962	2,180	1,052	476	65	31,037	24,885
1963	2,200	1,076	513	65	31,494	25,666
1964	2,240	1,170	517	68	32,508	25,871
1965	2,260	1,274	572	100	33,579	26,510
1966	2,260	1,359	620	100	34,460	26,660
1967	2,280	1,344	686	100	35,433	26,900
1968	2,300	1,354	1,218	100	36,353	27,190
1969	2,320	1,476	1,457	89	37,220	29,010
1970	2,340	1,476	1,058	89	38,113	30,440
1971	2,360	1,470	1,050	89	39,036	31,100
1972	2,380	1,470	1,047	89	39,939	31,550
1973	2,400	1,470	1,212	89	40,852	31,840
1974	2,415	1,471	1,299	89	41,755	32,550
1975	2,430	1,469	1,441	89	42,776	33,730
1976	2,445	1,475	1,406	95	43,571	34,490
1977	2,460	1,480	1,218	100	44,484	35,147
1978	2,475	1,480	1,457	110	45,400	36,554
1979	2,490	1,490	1,495	115	45,439	38,060
1980	2,505	1,500	1,569	120	45,467	38,478
1981	2,520	1,654	1,639	125	44,997	38,805
1982	2,535	1,645	1,726	130	44,594	39,924
1983	2,550	1,638	1,848	140	45,056	40,721
1984	2,581	1,625	1,920	160	44,873	41,955
1985	2,586	1,700	2,073	180	44,581	41,779
1986	2,719	1,770	2,098	200	44,653	41,760
1987	2,800	1,836	2,199	210	44,833	42,490
1988	2,800	1,835	2,347	220	44,808	43,050
1989	2,800	1,833	2,737	230	45,349	44,853
1990	3,000	1,832	2,936	240	47,965	45,144
1991	3,000	2,012	3,027	250	48,382	47,430
1992	3,000	2,069	3,229	260	49,150	48,500
1993	2,800	2,107	3,252	269	49,872	50,101
1994	2,800	2,408	3,288	270	49,368	51,452
1995	2,800	2,500	3,429	270	49,857	53,000
1996	2,800	2,600	3,553	270	50,961	55,000
1997	2,800	2,700	3,693	270	51,819	57,000
1998	2,386	2,400	3,844	270	52,582	59,000
1999	2,386	2,251	3,985	270	53,740	59,000

(Contd.)

**Part I: Table 1 (Contd.)**

**Net Irrigated Area by Country ('000 ha )**

**Asia and Oceania**

Year	13 Indonesia	14 Iran	15 Iraq	16 Israel	17 Japan	18 Korea DPR
1961	3,900	4,700	1,250	136	2,940	500
1962	3,900	4,750	1,280	143	2,940	500
1963	3,900	4,800	1,300	147	2,942	500
1964	3,900	4,850	1,330	146	2,942	500
1965	3,900	4,900	1,350	151	2,943	500
1966	3,900	4,950	1,380	154	3,396	500
1967	3,900	5,000	1,400	159	3,415	500
1968	3,900	5,050	1,430	162	3,435	500
1969	3,900	5,100	1,450	166	3,411	500
1970	3,900	5,200	1,480	172	3,415	500
1971	3,900	5,251	1,500	172	3,364	500
1972	3,900	5,350	1,520	176	3,312	600
1973	3,900	6,263	1,530	176	3,274	700
1974	3,900	6,000	1,550	176	3,209	800
1975	3,900	5,900	1,567	180	3,171	900
1976	3,900	5,840	1,600	184	3,144	1,000
1977	4,025	5,617	1,650	203	3,133	1,030
1978	4,025	5,611	1,700	200	3,108	1,060
1979	4,025	5,280	1,730	207	3,081	1,090
1980	4,301	4,948	1,750	203	3,055	1,120
1981	4,300	5,315	1,750	203	3,031	1,150
1982	4,300	5,664	1,750	224	3,010	1,180
1983	4,300	6,000	1,750	219	2,971	1,210
1984	4,300	6,400	1,750	227	2,952	1,240
1985	4,300	6,800	1,750	233	2,952	1,270
1986	4,300	7,000	1,750	219	2,931	1,300
1987	4,300	7,000	1,750	207	2,910	1,330
1988	4,300	7,000	2,538	214	2,889	1,360
1989	4,387	7,000	2,550	218	2,868	1,400
1990	4,410	7,000	3,525	206	2,846	1,420
1991	4,432	7,000	3,525	182	2,825	1,440
1992	4,500	7,000	3,525	187	2,802	1,460
1993	4,597	7,264	3,525	192	2,782	1,460
1994	4,581	7,264	3,525	196	2,764	1,460
1995	4,687	7,264	3,525	199	2,745	1,460
1996	4,760	7,265	3,525	199	2,724	1,460
1997	4,815	7,265	3,525	199	2,701	1,460
1998	4,815	7,562	3,525	199	2,679	1,460
1999	4,815	7,562	3,525	199	2,659	1,460

( Contd.)

Part I: Table 1 (Contd.)

Net Irrigated Area by Country ('000 ha)

Asia and Oceania

Year	19 Korea Rep	20 Laos	21 Lebanon	22 Malaysia	23 Myanmar	24 Nepal
1961	1,150	12	41	228	536	70
1962	1,160	12	41	229	570	75
1963	1,170	13	50	234	758	75
1964	1,181	13	50	235	786	80
1965	1,199	13	61	236	753	86
1966	1,199	15	65	238	773	105
1967	1,204	15	68	245	781	105
1968	1,127	17	68	217	816	110
1969	1,198	17	68	231	818	115
1970	1,184	17	68	262	839	117
1971	1,178	19	75	279	890	117
1972	1,178	25	80	294	890	117
1973	1,170	30	85	297	890	117
1974	1,269	35	86	302	971	175
1975	1,277	40	86	308	976	230
1976	1,290	50	86	312	985	290
1977	1,303	66	86	316	939	350
1978	1,312	78	86	318	981	410
1979	1,311	90	86	319	1,044	460
1980	1,307	115	86	320	999	520
1981	1,308	116	86	330	1,073	584
1982	1,312	118	86	329	1,044	630
1983	1,316	118	86	332	1,011	670
1984	1,320	118	86	335	1,064	720
1985	1,325	119	86	334	1,085	760
1986	1,329	120	86	334	1,059	810
1987	1,352	120	86	334	1,079	850
1988	1,358	125	86	334	997	900
1989	1,353	130	86	335	1,018	943
1990	1,345	135	86	335	1,005	950
1991	1,335	140	86	340	1,003	1,000
1992	1,300	145	86	340	998	1,020
1993	1,270	150	88	340	1,068	1,050
1994	1,235	155	100	340	1,336	1,100
1995	1,206	155	105	340	1,555	1,134
1996	1,176	156	110	340	1,557	1,135
1997	1,163	164	117	340	1,556	1,135
1998	1,159	164	120	365	1,592	1,135
1999	1,159	172	120	365	1,841	1,135

( Contd.)

**Part I: Table 1 (Contd.)**

**Net Irrigated Area by Country ('000 ha )**

**Asia and Oceania**

Year	25 New Zealand	26 Pakistan	27 Philippines	28 Saudi Arabia	29 Sri Lanka	30 Thailand	31 Turkey
1961	77	10,751	690	343	335	1,621	1,310
1962	84	11,007	700	345	368	1,730	1,310
1963	76	11,026	710	348	378	1,764	1,310
1964	81	11,439	720	350	381	1,764	1,350
1965	93	11,472	730	353	341	1,768	1,400
1966	84	12,029	740	355	398	1,768	1,500
1967	83	12,490	760	358	398	1,791	1,549
1968	88	13,065	780	360	413	1,795	1,600
1969	95	12,775	800	363	403	1,830	1,700
1970	111	12,950	826	365	465	1,960	1,800
1971	120	12,986	864	368	439	2,106	1,850
1972	135	13,059	910	370	430	2,197	1,939
1973	135	13,634	950	373	427	2,300	2,000
1974	135	13,343	990	375	477	2,378	2,100
1975	150	13,630	1,040	375	480	2,419	2,200
1976	164	13,830	1,070	390	483	2,448	2,300
1977	165	14,260	1,110	390	486	2,576	2,300
1978	165	14,270	1,124	400	536	2,600	2,500
1979	166	14,280	1,167	500	523	2,836	2,600
1980	183	14,680	1,219	600	525	3,015	2,700
1981	200	15,300	1,269	600	548	3,171	2,900
1982	218	15,390	1,335	700	519	3,320	2,900
1983	230	15,570	1,386	900	538	3,472	3,000
1984	240	15,720	1,408	1,100	550	3,659	3,100
1985	256	15,760	1,440	1,150	583	3,822	3,200
1986	265	15,790	1,460	1,200	607	3,912	3,300
1987	268	16,310	1,490	1,400	530	3,996	3,300
1988	275	15,680	1,510	1,500	592	4,121	3,500
1989	280	16,890	1,540	1,550	494	4,158	3,800
1990	280	16,940	1,550	1,600	520	4,238	3,800
1991	283	16,750	1,550	1,600	530	4,349	4,000
1992	285	16,850	1,550	1,608	550	4,433	4,000
1993	285	17,120	1,550	1,610	550	4,537	4,000
1994	285	17,130	1,550	1,615	550	4,590	4,186
1995	285	17,200	1,550	1,620	570	4,642	4,186
1996	285	17,580	1,550	1,620	570	5,004	4,200
1997	285	17,580	1,550	1,620	600	5,010	4,200
1998	285	18,000	1,550	1,620	651	4,749	4,200
1999	285	17,950	1,550	1,620	662	4,750	4,500

( Contd.)



Part I: Table 1 (Contd.)

Net Irrigated Area by Country ('000 ha)

Asia and Oceania

Year	32 Vietnam	33 Yemen
1961	1,000	207
1962	1,000	214
1963	1,000	219
1964	980	226
1965	980	231
1966	980	238
1967	980	243
1968	980	250
1969	980	255
1970	980	260
1971	980	265
1972	980	270
1973	980	275
1974	980	280
1975	1,000	282
1976	1,200	282
1977	1,272	282
1978	1,401	282
1979	1,555	286
1980	1,542	289
1981	1,650	298
1982	1,700	298
1983	1,730	300
1984	1,750	300
1985	1,770	302
1986	1,790	305
1987	1,800	308
1988	1,820	312
1989	1,830	314
1990	1,840	348
1991	1,850	400
1992	1,860	400
1993	1,880	450
1994	1,998	481
1995	2,000	485
1996	2,200	485
1997	2,300	485
1998	3,000	490
1999	3,000	490

(Contd.)

**Part I: Table 1 (Contd.)**

**Net Irrigated Area by Country ('000 ha )**

**Africa**

Year	34 Algeria	35 Egypt	36 Ethiopia	37 Libya	38 Madagascar	39 Morocco	40 Mozambique
1961	229	2,568	-	121	300	875	8
1962	230	2,505	-	121	300	880	10
1963	231	2,490	-	121	300	885	12
1964	232	2,506	-	121	300	890	14
1965	233	2,672	-	130	330	895	16
1966	234	2,780	-	142	330	900	18
1967	235	2,801	-	167	330	905	20
1968	236	2,801	-	165	330	910	22
1969	237	2,835	-	170	330	915	24
1970	238	2,843	-	175	330	920	26
1971	239	2,852	-	180	350	950	28
1972	240	2,855	-	185	350	976	30
1973	241	2,855	-	190	390	1,005	32
1974	242	2,843	-	195	426	1,032	34
1975	244	2,825	-	200	465	1,060	40
1976	246	2,730	-	205	500	1,090	45
1977	248	2,635	-	210	538	1,124	50
1978	250	2,540	-	215	575	1,155	55
1979	252	2,447	-	220	610	1,185	60
1980	253	2,445	-	225	645	1,217	65
1981	270	2,468	-	225	682	1,223	70
1982	280	2,469	-	227	718	1,230	74
1983	291	2,478	-	300	755	1,234	80
1984	298	2,493	-	300	790	1,240	86
1985	338	2,497	-	300	826	1,245	93
1986	337	2,567	-	300	900	1,250	93
1987	337	2,547	-	364	900	1,255	95
1988	336	2,581	-	364	900	1,260	100
1989	378	2,571	-	364	1,000	1,258	100
1990	384	2,648	-	470	1,000	1,258	105
1991	422	2,643	-	470	1,000	1,258	105
1992	488	2,900	-	470	1,087	1,258	105
1993	555	3,246	190	470	1,087	1,258	107
1994	555	3,265	190	470	1,087	1,258	107
1995	555	3,283	190	470	1,087	1,258	107
1996	560	3,266	190	470	1,087	1,258	107
1997	560	3,300	190	470	1,090	1,251	107
1998	560	3,300	190	470	1,090	1,291	107
1999	560	3,300	190	470	1,090	1,305	107

( Contd.)

**Part I: Table 1 (Contd.)**

**Net Irrigated Area by Country ('000 ha)**

**Africa**

Year	41 Nigeria	42 Somalia	43 South Africa	44 Sudan	45 Syria	46 Tanzania	47 Tunisia	48 Zimbabwe
1961	16	90	808	1,480	558	20	100	22
1962	16	90	830	1,500	657	22	100	23
1963	16	90	850	1,520	671	24	100	23
1964	16	90	870	1,535	489	26	100	32
1965	16	90	890	1,550	522	28	100	34
1966	16	95	900	1,565	508	30	100	34
1967	16	95	920	1,580	538	32	100	46
1968	16	95	950	1,595	476	34	100	46
1969	16	95	980	1,610	546	36	100	46
1970	18	95	1,000	1,625	451	38	200	46
1971	18	95	1,017	1,640	476	40	200	50
1972	18	95	1,017	1,655	625	44	200	55
1973	18	100	1,017	1,670	619	48	200	60
1974	18	100	1,017	1,685	578	50	200	65
1975	18	100	1,017	1,700	516	52	200	70
1976	20	100	1,040	1,715	547	65	200	80
1977	20	125	1,060	1,730	531	80	200	80
1978	20	125	1,080	1,800	519	95	200	80
1979	21	125	1,100	1,800	539	110	200	80
1980	23	125	1,128	1,800	539	120	243	80
1981	24	150	1,128	1,800	567	120	253	80
1982	30	150	1,128	1,800	555	122	262	80
1983	30	150	1,128	1,800	580	124	297	80
1984	30	200	1,128	1,946	618	126	300	80
1985	30	180	1,128	1,946	652	127	300	90
1986	35	180	1,200	1,946	652	144	300	90
1987	45	180	1,200	1,946	654	144	300	90
1988	55	180	1,290	1,946	650	144	300	90
1989	66	180	1,290	1,946	670	144	300	100
1990	66	180	1,290	1,946	693	144	300	100
1991	66	180	1,290	1,946	788	144	385	100
1992	66	180	1,290	1,946	906	144	385	109
1993	66	200	1,270	1,946	1,013	150	385	117
1994	66	200	1,270	1,946	1,082	150	352	125
1995	66	200	1,270	1,946	1,089	150	361	150
1996	66	200	1,270	1,946	1,127	150	380	150
1997	66	200	1,270	1,950	1,168	155	380	150
1998	233	200	1,350	1,950	1,213	155	380	117
1999	233	200	1,354	1,950	1,186	155	380	117

( Contd.)

**Part I: Table 1 (Contd.)**

**Net Irrigated Area by Country ('000 ha )**

**Europe**

Year	49 Albania	50 Bulgaria	51 Denmark	52 France	53 Germany
1961	156	720	40	360	321
1962	168	747	45	380	336
1963	180	888	50	400	355
1964	192	941	58	420	373
1965	205	945	65	440	390
1966	217	946	70	460	398
1967	227	972	75	480	405
1968	245	959	80	500	412
1969	260	973	85	520	415
1970	284	1,001	90	539	419
1971	290	1,021	100	560	423
1972	300	1,049	120	590	432
1973	309	1,070	140	620	436
1974	320	1,101	160	650	440
1975	331	1,128	180	680	448
1976	340	1,147	201	710	450
1977	350	1,149	295	740	454
1978	357	1,168	342	770	458
1979	366	1,185	372	801	459
1980	371	1,197	391	870	460
1981	378	1,185	388	930	460
1982	382	1,185	390	960	466
1983	388	1,196	400	990	468
1984	393	1,210	405	1,020	470
1985	399	1,229	410	1,050	470
1986	404	1,242	415	1,080	472
1987	409	1,257	419	1,110	475
1988	417	1,242	425	1,147	477
1989	423	1,253	430	1,250	480
1990	423	1,263	430	1,300	482
1991	400	1,237	435	1,350	482
1992	350	1,237	435	1,400	475
1993	341	1,000	455	1,477	475
1994	340	800	465	1,500	475
1995	340	800	481	1,630	475
1996	340	800	481	1,650	475
1997	340	800	476	1,670	475
1998	340	800	476	2,000	485
1999	340	800	447	2,100	485

( Contd.)

Part I: Table 1 (Contd.)

Net Irrigated Area by Country ('000 ha)

Europe

Year	54 Greece	55 Hungary	56 Italy	57 Netherlands	58 Norway	59 Poland
1961	430	133	2,400	290	18	295
1962	541	220	2,400	300	20	290
1963	541	259	2,400	310	20	285
1964	562	266	2,400	320	25	280
1965	576	100	2,400	330	25	275
1966	601	163	2,400	340	28	270
1967	629	205	2,400	350	30	265
1968	675	365	2,400	360	30	260
1969	749	221	2,400	370	30	240
1970	730	109	2,400	380	30	213
1971	793	205	2,400	390	35	202
1972	802	267	2,400	400	35	173
1973	856	311	2,400	410	35	208
1974	848	308	2,400	420	40	205
1975	875	156	2,400	430	40	231
1976	939	320	2,400	440	44	198
1977	924	298	2,400	450	59	155
1978	953	181	2,400	460	70	148
1979	928	252	2,400	470	70	114
1980	961	134	2,400	480	74	100
1981	962	184	2,400	490	77	100
1982	968	155	2,425	500	79	100
1983	1,019	175	2,425	509	82	100
1984	1,030	234	2,425	520	86	100
1985	1,099	138	2,425	530	90	100
1986	1,126	163	2,425	535	92	100
1987	1,169	143	2,425	540	93	100
1988	1,187	167	2,425	545	94	100
1989	1,204	190	2,425	550	96	100
1990	1,195	204	2,711	555	97	100
1991	1,202	210	2,710	557	97	100
1992	1,289	224	2,700	560	97	100
1993	1,314	206	2,700	560	97	100
1994	1,327	210	2,700	565	97	100
1995	1,328	210	2,698	565	127	100
1996	1,364	210	2,698	565	127	100
1997	1,385	210	2,698	565	127	100
1998	1,422	210	2,698	565	127	100
1999	1,441	210	2,698	565	127	100

(Contd.)

Part I: Table 1 (Contd.)

Net Irrigated Area by Country ('000 ha )

Europe

Year	60 Portugal	61 Romania	62 Slovakia	63 Spain	64 Sweden	65 United Kingdom
1961	620	206	-	1,950	20	108
1962	620	191	-	2,034	21	106
1963	620	195	-	2,092	21	105
1964	620	214	-	2,144	22	105
1965	621	230	-	2,226	22	105
1966	621	331	-	2,275	24	104
1967	621	434	-	2,422	24	100
1968	621	530	-	2,323	25	96
1969	621	630	-	2,425	29	92
1970	622	731	-	2,379	33	88
1971	623	957	-	2,625	37	87
1972	623	1,144	-	2,710	41	86
1973	625	1,255	-	2,736	45	84
1974	625	1,396	-	2,783	47	82
1975	625	1,474	-	2,818	45	86
1976	628	1,729	-	2,854	50	91
1977	628	1,854	-	2,893	55	123
1978	628	2,065	-	2,943	60	130
1979	630	2,253	-	2,997	65	135
1980	630	2,301	-	3,029	70	140
1981	630	2,350	-	3,058	75	145
1982	630	2,380	-	3,123	80	152
1983	630	2,500	-	3,133	85	152
1984	630	2,612	-	3,215	90	152
1985	630	2,956	-	3,217	99	152
1986	630	3,152	-	3,261	105	155
1987	630	3,366	-	3,316	108	155
1988	630	3,300	-	3,345	110	155
1989	631	3,169	-	3,371	112	157
1990	630	3,109	-	3,402	114	164
1991	630	3,095	-	3,388	116	136
1992	630	3,100	-	3,403	115	108
1993	630	3,102	299	3,453	115	108
1994	631	3,104	235	3,657	115	108
1995	632	3,110	217	3,527	115	108
1996	632	3,096	194	3,603	115	108
1997	632	3,089	190	3,603	115	108
1998	632	2,880	174	3,640	115	108
1999	650	2,673	178	3,640	115	108

( Contd.)

Part I: Table 1 (Contd.)

Net Irrigated Area by Country ('000 ha) North and South America

Year	66 Argentina	67 Brazil	68 Canada	69 Chile	70 Colombia	71 Costa Rica
1961	980	490	350	1,075	226	26
1962	1,010	520	360	1,080	230	26
1963	1,050	540	365	1,085	230	26
1964	1,080	570	370	1,091	235	26
1965	1,110	610	380	1,100	235	26
1966	1,140	640	390	1,110	240	26
1967	1,180	680	395	1,120	240	26
1968	1,210	710	400	1,140	245	26
1969	1,250	750	410	1,160	245	26
1970	1,280	796	421	1,180	250	26
1971	1,310	850	437	1,200	260	26
1972	1,340	900	453	1,220	270	26
1973	1,380	950	470	1,238	280	26
1974	1,410	1,000	485	1,240	290	31
1975	1,440	1,100	500	1,242	300	36
1976	1,477	1,200	517	1,245	320	41
1977	1,510	1,300	533	1,247	340	46
1978	1,540	1,400	550	1,250	360	51
1979	1,560	1,500	565	1,252	380	56
1980	1,580	1,600	596	1,255	400	61
1981	1,580	1,700	625	1,257	420	66
1982	1,600	1,800	655	1,257	430	74
1983	1,600	1,900	685	1,257	440	74
1984	1,620	2,000	715	1,257	452	108
1985	1,620	2,100	748	1,257	465	110
1986	1,640	2,200	742	1,257	470	110
1987	1,640	2,300	738	1,257	496	115
1988	1,660	2,450	732	1,260	550	115
1989	1,660	2,550	726	1,265	620	118
1990	1,680	2,700	718	1,265	680	118
1991	1,690	2,700	720	1,265	720	120
1992	1,700	2,800	720	1,265	751	120
1993	1,700	2,800	720	1,265	850	120
1994	1,700	3,000	720	1,265	1,037	126
1995	1,700	3,169	720	1,265	1,037	126
1996	1,700	3,169	720	1,265	1,051	126
1997	1,700	3,169	720	1,270	1,061	126
1998	1,561	2,656	720	1,800	850	126
1999	1,561	2,900	720	1,800	850	108

(Contd.)

**Part I: Table 1 (Contd.)**

**Net Irrigated Area by Country ('000 ha )**

**North and South America**

Year	72 Cuba	73 Dominican Rep	74 Ecuador	75 El Salvador	76 Guatemala	77 Guyana	78 Mexico
1961	230	110	440	18	32	90	3,000
1962	255	110	440	18	35	100	3,050
1963	280	115	450	18	38	100	3,100
1964	300	115	450	18	40	100	3,150
1965	330	115	450	20	43	109	3,200
1966	355	120	463	20	45	109	3,250
1967	380	120	463	20	48	109	3,300
1968	400	120	463	20	53	115	3,400
1969	430	125	463	20	54	115	3,500
1970	450	125	470	20	56	115	3,583
1971	480	125	470	20	60	115	3,750
1972	500	125	470	26	63	120	4,000
1973	530	130	480	33	65	120	4,127
1974	550	135	506	33	70	120	4,293
1975	580	140	506	33	72	120	4,479
1976	650	145	506	30	75	122	4,816
1977	700	150	506	50	78	122	4,855
1978	720	155	500	50	80	122	4,900
1979	740	160	500	102	84	122	4,940
1980	762	165	500	110	87	125	4,980
1981	793	170	450	110	90	125	5,020
1982	822	176	450	110	93	125	5,053
1983	834	180	400	110	96	127	4,845
1984	824	190	350	110	100	127	4,882
1985	861	198	300	110	102	127	5,285
1986	858	225	300	112	105	127	5,176
1987	868	225	300	117	108	130	5,084
1988	870	225	300	120	110	130	5,200
1989	896	225	300	120	114	130	5,400
1990	900	225	290	120	117	130	5,600
1991	905	225	280	120	120	130	5,800
1992	910	230	270	120	125	130	6,100
1993	910	230	260	120	125	130	6,100
1994	910	250	250	120	125	130	6,100
1995	910	259	240	120	125	130	6,100
1996	910	259	240	120	125	130	6,100
1997	910	259	250	120	125	130	6,500
1998	870	259	865	128	125	150	6,500
1999	870	269	865	40	130	150	6,500

( Contd.)



**Part I: Table 1 (Contd.)**

**Net Irrigated Area by Country ('000 ha) North and South America**

Year	79 Peru	80 Uruguay	81 USA	82 Venezuela
1961	1,016	27	14,000	60
1962	1,030	27	14,400	60
1963	1,060	35	14,700	60
1964	1,060	35	14,996	61
1965	1,060	35	15,200	62
1966	1,078	42	15,300	63
1967	1,070	42	15,500	64
1968	1,070	42	15,700	65
1969	1,070	42	15,836	67
1970	1,106	52	16,000	70
1971	1,110	52	16,170	71
1972	1,110	52	16,340	74
1973	1,120	55	16,510	80
1974	1,120	55	16,690	85
1975	1,130	57	16,690	90
1976	1,140	58	16,690	96
1977	1,145	60	16,697	93
1978	1,150	64	20,375	105
1979	1,155	70	20,582	111
1980	1,160	79	20,582	137
1981	1,170	83	20,582	146
1982	1,180	86	19,831	157
1983	1,190	90	19,831	153
1984	1,200	93	20,200	178
1985	1,210	97	19,831	171
1986	1,220	100	19,831	165
1987	1,200	104	18,771	172
1988	1,250	109	19,700	178
1989	1,300	115	20,600	180
1990	1,450	120	20,900	180
1991	1,500	130	20,900	187
1992	1,550	140	21,400	195
1993	1,650	140	21,400	205
1994	1,700	140	21,400	210
1995	1,753	140	21,400	200
1996	1,753	140	21,400	200
1997	1,760	140	21,400	205
1998	1,195	180	21,400	540
1999	1,195	180	22,400	575

( Contd.)

**Part I: Table 1 (Contd.)**

**Net Irrigated Area by Country ('000 ha )**

**CIS Countries**

Year	83 USSR* (upto 1991)	84 Armenia	85 Azerbaijan	86 Belarus	87 Georgia	88 Kazakhstan
1961	9,400					
1962	9,490					
1963	9,600					
1964	9,700					
1965	9,900					
1966	9,920					
1967	9,939					
1968	10,200					
1969	10,515					
1970	11,100					
1971	11,483					
1972	11,991					
1973	12,746					
1974	13,675					
1975	14,500					
1976	15,300					
1977	16,000					
1978	16,600					
1979	17,000					
1980	17,200					
1981	18,029					
1982	18,608					
1983	19,146					
1984	19,485					
1985	19,689					
1986	20,467					
1987	20,485					
1988	20,500					
1989	20,700					
1990	20,800					
1991	20,900					
1992	20,453	286	1,370	130	450	2,250
1993	20,387	287	1,400	127	460	2,250
1994	20,523	287	1,430	124	469	2,300
1995	20,823	290	1,453	115	469	2,380
1996	20,381	290	1,453	115	469	2,213
1997	20,152	290	1,455	115	470	2,149
1998	19,979	287	1,455	115	470	2,332
1999	19,921	287	1,455	115	470	2,350

\* Figures after 1991 are the sum of CIS countries.

( Contd.)

Part I: Table 1 (Contd.)

Net Irrigated Area by Country ('000 ha) CIS Countries

Year	89 Kyrgyzstan	90 Moldova	91 Russian Fed	92 Tajikistan	93 Turkmenistan	94 Ukraine	95 Uzbekistan
1961							
1962							
1963							
1964							
1965							
1966							
1967							
1968							
1969							
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1988							
1989							
1990							
1991							
1992	1,007	312	5,553	718	1,500	2,605	4,239
1993	1,050	309	5,298	718	1,600	2,605	4,250
1994	1,077	310	5,158	719	1,744	2,591	4,281
1995	1,077	309	5,362	719	1,750	2,585	4,281
1996	1,074	309	5,108	719	1,800	2,517	4,281
1997	1,074	309	4,990	720	1,800	2,466	4,281
1998	1,074	307	4,663	720	1,800	2,454	4,281
1999	1,072	307	4,600	719	1,800	2,434	4,281

## Part I: Table 2

### Net Irrigated Area, Estimated Irrigation Intensity and Estimated Gross Irrigated Area, by Country, 1995.

Country	Net Irrigated Area '000 ha	Irrigation Intensity	Gross Irrigated Area '000 ha
<u>Asia and Oceania</u>			
Afghanistan	2,800	1.15	3,220
Australia	2,317	1.48	3,429
Bangladesh	3,439	1.65	5,674
Cambodia	173	1.25	216
China	49,702	1.75	86,979
Haiti	88	1.00	88
India	54,333	1.33	72,263
Indonesia	4,580	1.65	7,557
Iran	7,264	1.15	8,354
Iraq	3,525	1.40	4,935
Israel	198	1.25	248
Japan	2,744	1.00	2,744
Jordan	74	1.40	104
Korea DPR	1,460	1.00	1,460
Korea Republic	1,206	1.00	1,206
Kuwait	5	2.00	10
Lebanon	88	1.60	141
Malaysia	340	1.50	510
Myanmar	1,605	1.10	1,766
Nepal	885	1.35	1,195
New Zealand	285	1.65	470
Oman	62	1.70	105
Pakistan	16,000	1.10	17,600
Philippines	1,580	1.65	2,607
Saudi Arabia	1,477	1.30	1,920
Singapore	1	2.00	2
Sri Lanka	550	1.50	825
Syria	1,099	1.50	1,649
Thailand	4,745	1.45	6,880
Turkey	4,191	1.10	4,610
United Arab Emirates	69	1.90	131
Vietnam	1,999	1.40	2,799
Yemen	484	1.35	653

Source: Food and Agriculture Organisation of the United Nations.

Notes: Irrigation intensities are based on IWMI estimates or on expert opinions, etc.

Gross irrigated area equals net irrigated area multiplied by irrigation Intensity.

( Contd.)

Part I: Table 2 (Contd.)

Net Irrigated Area, Estimated Irrigation Intensity and Estimated Gross Irrigated Area, by Country, 1995.

Country	Net Irrigated Area '000 ha	Irrigation Intensity	Gross Irrigated Area '000 ha
<u>Africa</u>			
Angola	75	1.40	105
Belize	1	2.00	2
Benin	10	1.00	10
Botswana	1	2.00	2
Burkina Faso	25	1.85	46
Burundi	14	1.00	14
Central African Republic	1	2.00	2
Chad	14	1.55	22
Congo, Dem Republic	11	2.00	22
Congo, Republic	1	2.00	2
Côte d'Ivoire	73	1.85	135
Egypt	3,271	1.57	5,135
Ethiopia	190	1.80	342
Gabon	4	1.00	4
Gambia	14	1.35	19
Ghana	6	2.00	12
Guinea	94	1.70	159
Guinea Bissau	17	1.05	18
Kenya	67	2.00	134
Lesotho	2	1.70	4
Liberia	2	1.80	4
Libya	470	1.30	611
Madagascar	1,087	1.00	1,087
Mali	84	2.00	168
Mauritania	49	1.00	49
Morocco	1,258	1.50	1,887
Mozambique	107	1.40	150
Namibia	7	2.00	13
Niger	66	1.05	69
Nigeria	950	1.40	1,330
Senegal	71	1.95	138
Somalia	200	1.00	200
South Africa	1,270	1.55	1,969
Sudan	1,946	1.00	1,946
Tanzania	183	1.50	275
Tunisia	364	1.10	400
Uganda	9	1.80	16
Zambia	46	2.00	92
Zimbabwe	142	1.50	213

(Contd.)

**Part I: Table 2 (Contd.)**

**Net Irrigated Area, Estimated Irrigation Intensity and Estimated Gross Irrigated Area, by Country, 1995.**

Country	Net Irrigated Area '000 ha	Irrigation Intensity	Gross Irrigated Area '000 ha
<u>Europe</u>			
Albania	340	1.00	340
Austria	4	1.00	4
Bel-Lux	3	1.00	3
Bulgaria	800	1.00	800
Denmark	476	1.00	476
Finland	64	1.00	64
France	1,587	1.00	1,587
Germany	475	1.00	475
Greece	1,340	1.10	1,480
Hungary	210	1.00	210
Italy	2,710	1.90	5,149
Netherlands	565	1.00	565
Norway	99	1.00	99
Poland	100	1.00	100
Portugal	632	1.70	1,074
Romania	3,108	1.00	3,108
Spain	3,570	1.35	4,820
Sweden	115	1.00	115
Switzerland	25	1.00	25
UK	108	1.00	108
<u>North America and South America</u>			
Argentina	1,700	1.60	2,720
Bolivia	84	2.00	169
Brazil	3,113	1.55	4,825
Cameroon	21	2.00	42
Canada	710	1.00	710
Chile	1,265	1.85	2,340
Colombia	1,042	1.30	1,354
Costa Rica	126	2.00	252
Cuba	910	1.60	1,456
Dominican Republic	256	2.00	512
Ecuador	243	2.00	487
El Salvador	120	1.65	198
Guatemala	125	1.45	181
Guyana	130	2.00	260
Honduras	74	2.00	148
Jamaica	33	1.70	56
Mexico	5,000	1.03	5,150
Nicaragua	88	1.45	128

( Contd.)

**Part I: Table 2 (Contd.)**

**Net Irrigated Area, Estimated Irrigation Intensity and Estimated Gross Irrigated Area, by Country, 1995.**

Country	Net Irrigated Area '000 ha	Irrigation Intensity	Gross Irrigated Area '000 ha
<u>North America and South America (Contd.)</u>			
Panama	32	2.00	64
Paraguay	67	1.30	87
Peru	1,735	1.15	1,996
Suriname	60	2.00	120
Uruguay	140	1.55	217
USA	21,400	1.63	34,882
Venezuela	186	1.85	343
<u>CIS Countries</u>			
Kazakhstan	2,270	1.00	2,270
Kyrgyzstan	1,067	1.00	1,067
Russian Fed	5,362	1.00	5,362
Tajikistan	718	1.00	718
Turkmenistan	1,300	1.00	1,300
Ukraine	2,587	1.00	2,587
Uzbekistan	4,000	1.00	4,000

**Part I: Table 3**

**Total Harvested Area of Cereals ('000 ha)**

**The World and Regions**

	1	2	3	4	5	6
	World	Asia	Africa	Europe	North America	South America
1961	648,230	310,780	57,354	151,131	82,791	37,265
1962	654,048	316,165	58,480	153,727	79,825	36,205
1963	659,455	314,913	60,907	151,475	81,853	40,602
1964	670,421	322,065	60,306	154,087	80,469	43,055
1965	667,435	320,321	61,876	152,630	79,817	42,319
1966	669,937	322,436	59,793	150,585	81,553	43,457
1967	680,082	323,019	64,087	149,133	86,457	44,918
1968	684,451	326,420	63,480	149,862	83,728	46,220
1969	685,676	329,647	68,717	149,686	78,500	45,781
1970	675,861	330,805	66,958	146,783	73,727	46,549
1971	687,131	330,279	66,814	146,550	82,846	48,475
1972	677,543	329,025	64,446	147,829	77,175	47,021
1973	699,569	338,953	66,310	150,166	84,218	46,477
1974	701,199	336,740	66,467	151,424	87,017	47,193
1975	711,281	342,204	63,987	151,389	90,971	49,502
1976	722,419	342,237	68,281	151,857	93,584	52,793
1977	719,054	344,063	64,704	152,460	91,727	50,815
1978	714,970	346,494	63,857	152,371	86,702	49,911
1979	706,554	342,439	62,231	150,397	86,965	48,460
1980	717,347	344,852	64,444	150,982	91,748	49,107
1981	727,369	345,831	62,721	148,641	100,261	52,373
1982	714,479	336,406	62,084	147,767	98,421	52,950
1983	704,869	344,730	64,269	145,254	81,013	50,165
1984	714,131	341,646	64,997	144,476	93,864	50,845
1985	720,079	339,795	73,130	142,695	95,390	51,372
1986	717,722	340,884	76,592	141,513	90,096	52,370
1987	697,279	333,016	75,359	139,743	81,597	53,253
1988	701,883	341,048	79,349	139,425	76,748	51,487
1989	711,627	343,587	80,498	137,316	86,478	50,055
1990	708,348	344,716	79,404	134,863	87,931	47,488
1991	703,764	341,407	84,910	134,421	83,663	47,237
1992	709,265	333,350	86,016	142,098	86,829	48,377
1993	694,356	330,104	84,736	140,104	80,317	46,139
1994	696,765	327,412	91,760	134,134	82,748	49,138
1995	692,577	328,823	88,773	133,830	78,608	48,483
1996	711,510	330,105	94,951	131,941	86,500	51,934
1997	707,774	329,019	91,385	137,026	84,726	50,434
1998	691,626	324,840	93,395	131,391	80,770	45,644
1999	671,186	324,604	91,125	115,465	76,832	47,248

Source: Food and Agriculture Organisation of the United Nations.

Note: Cereals include wheat, rice, maize, oats, buckwheat, sorghum, millets, rye, barley, canary seed, triticale and others.

(Contd.)



Part I: Table 3 (Contd.)

Total Harvested Area of Cereals ('000 ha)

Asia and Oceania

	7	8	9	10	11	12	13
	Afghanistan	Australia	Bangladesh	Cambodia	China	India	Indonesia
1961	3,314	8,442	8,639	2,270	90,538	92,239	9,319
1962	3,426	9,155	8,856	2,387	89,750	93,852	10,458
1963	3,427	9,191	9,170	2,348	91,209	93,571	9,290
1964	3,447	9,822	9,364	2,504	92,889	94,306	10,626
1965	3,445	9,847	9,492	2,481	91,902	93,277	9,834
1966	3,447	11,504	9,209	2,271	93,704	92,730	11,469
1967	3,125	11,884	10,037	2,137	92,801	96,062	10,063
1968	3,042	14,122	9,931	2,437	90,478	98,823	11,241
1969	3,082	12,782	10,545	2,046	92,109	100,873	10,448
1970	3,178	10,598	10,146	2,485	93,706	100,377	11,074
1971	3,400	11,689	9,531	1,974	96,993	99,673	10,951
1972	3,923	11,555	9,857	1,455	97,314	98,044	10,058
1973	3,337	12,892	10,095	874	96,955	103,789	11,837
1974	3,342	11,745	10,012	615	97,680	99,389	11,175
1975	3,404	12,565	10,549	955	98,092	101,367	10,940
1976	3,394	12,968	10,124	1,055	98,626	101,465	10,464
1977	3,388	14,599	10,278	1,062	97,255	103,724	10,926
1978	3,392	15,043	10,371	1,065	97,446	104,340	11,954
1979	3,184	15,458	10,508	849	96,233	103,473	11,397
1980	3,019	15,587	10,818	1,447	95,054	104,067	11,740
1981	2,909	16,913	11,144	1,428	92,653	105,508	12,337
1982	2,800	16,202	11,182	1,607	91,008	101,084	11,050
1983	2,649	18,873	10,424	1,673	92,801	106,613	12,165
1984	2,562	17,773	10,895	1,342	92,388	105,176	12,850
1985	2,435	17,165	11,233	1,391	88,712	104,057	12,342
1986	2,347	15,772	11,304	1,456	90,394	104,049	13,131
1987	2,496	13,858	11,037	1,289	90,300	98,574	12,549
1988	2,331	13,435	10,936	1,785	89,373	103,543	13,544
1989	2,290	13,348	11,153	1,836	91,447	104,056	13,475
1990	2,253	13,428	11,141	1,785	93,556	102,536	13,660
1991	2,347	11,693	10,955	1,811	94,139	100,242	13,191
1992	2,190	13,306	10,861	1,749	92,595	99,432	14,733
1993	2,200	13,523	10,642	1,867	89,305	99,128	13,952
1994	2,407	12,157	10,633	1,532	87,904	100,082	13,843
1995	2,547	14,627	10,683	1,827	89,764	100,181	15,091
1996	2,602	16,726	10,814	1,906	92,723	100,489	15,313
1997	2,731	15,891	10,976	1,963	92,779	100,630	14,496
1998	2,793	16,275	11,364	2,008	92,932	99,450	15,447
1999	2,534	16,612	11,681	2,129	92,007	101,555	15,420

(Contd.)

Part I: Table 3 (Contd.)

Total Harvested Area of Cereals ('000 ha)

Asia and Oceania

	14 Iran	15 Iraq	16 Israel	17 Japan	18 Korea DPR	19 Korea Rep	20 Laos
1961	5,063	2,039	155	4,868	1,432	2,074	630
1962	4,983	2,451	132	4,755	1,436	2,113	602
1963	4,783	1,818	132	4,610	1,476	2,178	610
1964	5,057	2,179	161	4,418	1,479	2,272	928
1965	6,397	2,481	155	4,303	1,460	2,375	931
1966	7,457	2,382	130	4,195	1,484	2,273	943
1967	6,630	2,472	148	4,093	1,490	2,282	974
1968	7,535	2,424	151	4,017	1,483	2,243	670
1969	7,136	2,165	146	3,926	1,508	2,225	679
1970	7,288	2,087	131	3,446	1,510	2,160	680
1971	6,926	1,474	138	3,093	1,514	2,058	681
1972	7,394	2,703	146	2,936	1,523	2,054	680
1973	7,462	1,703	132	2,834	1,558	1,986	680
1974	7,633	2,196	150	2,933	1,592	2,031	702
1975	8,021	2,020	143	2,971	1,616	2,052	698
1976	7,524	2,165	140	2,978	1,618	2,034	554
1977	7,182	1,501	138	2,950	1,635	1,840	586
1978	7,058	2,304	125	2,795	1,638	1,860	607
1979	7,040	1,929	121	2,794	1,635	1,772	717
1980	8,045	2,291	131	2,724	1,611	1,646	760
1981	9,100	2,257	133	2,655	1,630	1,649	776
1982	8,541	2,356	122	2,637	1,618	1,585	768
1983	8,530	2,479	134	2,653	1,605	1,627	724
1984	8,367	1,083	106	2,688	1,635	1,622	684
1985	8,770	2,977	108	2,712	1,603	1,519	690
1986	8,768	2,777	116	2,679	1,628	1,470	671
1987	9,360	1,938	113	2,556	1,703	1,516	567
1988	9,414	2,462	103	2,535	1,690	1,492	563
1989	9,460	1,625	108	2,524	1,671	1,471	627
1990	9,468	3,256	108	2,471	1,655	1,441	687
1991	9,580	3,343	99	2,413	1,556	1,369	591
1992	9,787	3,920	100	2,431	1,546	1,293	598
1993	9,935	4,588	94	2,424	1,493	1,280	566
1994	9,464	3,570	93	2,448	1,527	1,219	639
1995	9,172	3,168	93	2,352	1,453	1,173	589
1996	9,023	3,336	88	2,221	1,343	1,171	591
1997	8,567	2,766	76	2,198	1,387	1,178	639
1998	9,319	2,825	76	2,050	1,435	1,178	664
1999	6,928	3,016	27	2,042	1,289	1,165	759

( Contd.)

Part I: Table 3 (Contd.)

Total Harvested Area of Cereals ('000 ha)

Asia and Oceania

	21 Lebanon	22 Malaysia	23 Myanmar	24 Nepal	25 New Zealand	26 Pakistan	27 Philippines
1961	90	523	4,519	1,715	124	7,859	5,195
1962	91	551	5,001	1,725	126	8,091	5,111
1963	73	562	5,228	1,726	140	8,213	4,985
1964	93	565	5,338	1,742	137	8,534	5,122
1965	98	590	5,222	1,786	131	8,873	5,215
1966	90	581	4,951	1,795	136	8,668	5,254
1967	85	604	5,148	1,821	145	9,031	5,552
1968	87	669	5,163	1,909	211	9,537	5,588
1969	55	693	5,029	1,951	219	9,706	5,615
1970	58	712	5,155	1,995	196	9,838	5,625
1971	60	741	5,089	2,010	215	9,474	5,797
1972	63	773	4,852	1,973	236	9,190	5,550
1973	61	758	5,202	2,092	212	9,602	6,258
1974	65	749	5,226	2,124	191	9,526	6,652
1975	66	762	5,391	2,152	204	9,435	6,872
1976	58	749	5,280	2,184	230	9,765	6,890
1977	54	734	5,253	2,203	218	10,280	6,776
1978	55	594	5,404	2,233	205	10,330	6,830
1979	53	745	4,872	2,192	208	10,585	6,852
1980	26	724	5,261	2,248	192	10,585	6,708
1981	23	718	5,267	2,313	181	10,910	6,812
1982	24	690	4,964	2,332	195	11,040	6,403
1983	24	680	5,226	2,470	192	11,401	6,414
1984	22	638	5,176	2,587	233	11,351	6,449
1985	26	680	5,201	2,636	257	11,049	6,914
1986	31	666	5,190	2,623	267	11,382	6,966
1987	39	676	4,927	2,826	228	11,318	6,939
1988	40	690	4,954	2,981	167	11,302	7,138
1989	40	683	5,190	3,006	158	11,810	7,187
1990	41	701	5,221	3,045	175	11,864	7,138
1991	41	704	5,050	2,986	155	11,708	7,015
1992	42	694	5,577	2,840	137	11,758	6,719
1993	38	715	6,004	3,103	151	12,192	6,520
1994	38	721	6,260	3,039	148	12,146	6,451
1995	39	696	6,561	3,212	146	12,202	6,687
1996	38	709	6,061	3,258	154	12,343	6,568
1997	38	682	6,287	3,279	185	12,309	6,568
1998	38	673	5,914	3,290	156	12,578	5,524
1999	39	719	6,804	3,253	131	12,447	6,642

(Contd.)

**Part I: Table 3 (Contd.)**

**Total Harvested Area of Cereals ('000 ha)**

**Asia and Oceania**

	28 Saudi Arabia	29 Sri Lanka	30 Thailand	31 Turkey	32 Vietnam	33 Yemen
1961	274	539	6,427	12,865	5,004	1,199
1962	274	568	6,871	12,965	5,151	1,234
1963	287	582	6,898	13,017	4,769	1,268
1964	294	574	6,861	12,930	5,245	1,292
1965	305	473	6,863	12,960	5,104	1,287
1966	312	584	8,008	12,974	4,949	1,182
1967	312	584	7,020	13,014	5,026	1,146
1968	379	607	7,577	13,132	5,133	1,127
1969	324	582	7,975	13,304	5,172	1,101
1970	339	763	7,639	13,159	4,959	1,083
1971	428	733	8,123	13,293	4,942	1,096
1972	154	683	7,765	13,044	5,166	1,042
1973	201	734	8,878	12,688	5,282	1,099
1974	411	875	8,591	13,187	5,370	1,099
1975	345	691	9,738	13,606	5,127	1,262
1976	428	721	9,422	13,547	5,635	1,264
1977	391	850	9,882	13,575	5,874	996
1978	405	901	10,405	13,353	5,857	856
1979	438	836	10,245	13,696	5,862	904
1980	453	868	10,786	13,163	5,992	851
1981	274	889	10,844	13,638	6,040	841
1982	262	796	10,490	13,422	6,096	897
1983	316	825	11,432	13,322	5,993	895
1984	446	937	11,660	13,350	6,065	901
1985	630	913	12,052	13,720	6,104	861
1986	641	882	11,202	13,747	6,093	871
1987	713	726	10,673	13,700	5,998	853
1988	895	865	11,875	13,729	6,241	868
1989	962	729	11,778	13,489	6,409	860
1990	975	870	10,537	13,640	6,464	845
1991	1,089	831	10,657	13,909	6,754	640
1992	1,122	803	10,587	13,731	6,957	730
1993	1,130	863	9,865	14,079	7,060	752
1994	1,116	938	10,645	14,132	7,137	735
1995	705	934	10,526	13,805	7,327	733
1996	563	698	10,572	13,935	7,623	704
1997	595	722	11,365	13,962	7,754	720
1998	595	865	11,533	14,105	8,015	770
1999	686	907	11,508	13,208	8,335	637

(Contd.)

Part I: Table 3 (Contd.)

Total Harvested Area of Cereals ('000 ha)

Africa

	34 Algeria	35 Egypt	36 Ethiopia	37 Libya	38 Madagascar	39 Morocco	40 Mozambique	41 Nigeria
1961	2,709	1,724	-	489	888	3,773	732	10,621
1962	2,911	1,976	-	563	941	3,286	701	10,634
1963	2,891	1,945	-	503	950	4,326	717	10,741
1964	2,806	1,907	-	503	988	3,939	713	11,291
1965	2,862	1,626	-	455	983	3,956	731	12,245
1966	1,922	1,817	-	499	1,102	4,653	784	10,102
1967	2,600	1,894	-	598	1,122	4,839	824	10,635
1968	3,018	2,054	-	631	1,151	4,712	758	11,039
1969	3,012	1,920	-	629	1,124	4,642	811	14,400
1970	3,228	1,912	-	376	1,107	4,513	686	12,424
1971	2,952	1,928	-	221	1,121	4,684	690	11,737
1972	3,518	1,895	-	276	1,131	4,610	774	8,870
1973	3,233	1,880	-	437	1,161	4,704	1,030	12,505
1974	2,973	2,000	-	469	1,179	4,572	1,030	10,325
1975	3,171	2,044	-	572	1,191	4,200	948	8,632
1976	3,350	2,078	-	719	1,180	4,812	950	9,874
1977	2,780	1,900	-	386	1,291	4,963	955	7,460
1978	2,625	2,044	-	687	1,257	4,748	960	6,554
1979	2,887	2,034	-	607	1,282	4,422	999	6,113
1980	3,181	1,978	-	555	1,331	4,429	1,113	7,165
1981	2,836	2,009	-	450	1,316	4,391	1,121	4,865
1982	2,569	2,027	-	380	1,308	4,287	1,270	5,186
1983	2,228	2,013	-	552	1,319	4,712	1,274	5,785
1984	2,670	1,945	-	474	1,305	4,488	1,304	6,711
1985	3,199	1,886	-	394	1,326	4,792	1,404	9,527
1986	2,871	1,864	-	424	1,338	5,183	1,524	12,563
1987	2,719	1,931	-	445	1,241	5,080	1,429	13,231
1988	1,809	1,942	-	429	1,266	5,322	1,429	12,685
1989	2,638	2,085	-	484	1,301	5,532	1,534	14,373
1990	2,366	2,283	-	404	1,327	5,603	1,549	15,400
1991	3,418	2,470	-	388	1,296	5,501	1,599	17,014
1992	3,530	2,477	-	368	1,340	5,022	1,377	16,836
1993	1,960	2,495	4,035	353	1,416	5,030	1,355	17,435
1994	1,287	2,561	5,387	319	1,307	6,084	1,521	18,003
1995	2,580	2,727	6,527	270	1,343	3,996	1,727	18,239
1996	3,664	2,545	7,731	196	1,338	5,992	1,678	17,728
1997	1,116	2,623	7,498	232	1,371	4,913	1,864	18,449
1998	3,690	2,610	6,313	247	1,392	5,903	2,012	18,759
1999	1,889	2,578	7,426	327	1,435	5,177	1,881	18,491

( Contd.)

**Part I: Table 3 (Contd.)**

**Total Harvested Area of Cereals ('000 ha)**

**Africa**

	42 Somalia	43 South Africa	44 Sudan	45 Syria	46 Tanzania	47 Tunisia	48 Zimbabwe
1961	521	6,088	1,843	2,116	1,260	1,125	1,377
1962	515	6,203	1,991	2,220	1,241	1,116	1,352
1963	520	6,607	2,043	2,431	1,437	1,592	1,253
1964	511	6,384	1,989	2,299	1,408	1,437	1,254
1965	507	6,399	2,028	1,951	1,401	1,545	1,219
1966	502	6,115	1,957	1,225	1,771	1,173	1,293
1967	535	6,872	2,694	1,895	1,651	1,104	1,469
1968	515	6,956	1,854	1,575	1,695	1,159	1,221
1969	519	6,767	2,493	1,881	1,701	954	1,689
1970	480	6,851	2,964	2,502	1,748	1,273	1,527
1971	445	7,356	2,929	1,886	1,737	1,171	1,634
1972	646	7,493	2,970	1,996	1,797	1,360	1,652
1973	387	6,415	3,593	2,427	1,741	1,367	1,347
1974	395	7,235	3,693	2,278	1,800	1,362	1,703
1975	511	7,107	4,125	2,747	2,032	1,365	1,615
1976	614	7,375	4,332	2,808	2,368	1,469	1,668
1977	617	7,014	4,511	2,603	2,624	1,235	1,388
1978	582	6,790	4,529	2,637	2,752	1,437	1,540
1979	617	6,951	3,651	2,582	2,767	1,641	1,326
1980	575	6,623	4,290	2,702	2,902	1,307	1,679
1981	723	6,704	5,401	2,642	2,834	1,299	1,895
1982	759	7,074	4,760	2,849	2,103	1,183	1,937
1983	559	6,937	5,109	2,844	2,209	1,631	1,896
1984	770	7,301	4,987	2,458	2,473	1,469	1,796
1985	688	7,006	7,347	2,711	2,651	1,934	1,830
1986	637	7,342	6,719	2,705	3,354	1,028	1,828
1987	783	7,414	4,658	2,804	3,181	1,659	1,765
1988	860	7,246	8,169	3,013	3,008	463	1,937
1989	825	6,706	5,587	4,202	3,208	1,002	1,693
1990	733	6,146	3,735	4,145	2,628	1,428	1,576
1991	456	5,672	6,807	3,577	3,121	1,641	1,548
1992	406	5,343	8,265	3,732	3,255	1,445	1,169
1993	365	5,911	6,164	3,631	3,197	1,577	1,688
1994	987	6,151	10,124	3,525	3,022	739	1,925
1995	604	5,292	7,780	3,685	3,254	555	1,844
1996	654	5,451	8,570	3,256	3,250	1,971	2,058
1997	704	6,265	8,648	3,418	3,010	1,143	2,174
1998	604	4,628	9,811	3,431	3,289	1,240	1,662
1999	414	4,570	7,232	3,074	3,154	1,392	1,903

(Contd.)

Part I: Table 3 (Contd.)

Total Harvested Area of Cereals ('000 ha)

Europe

	49 Albania	50 Bulgaria	51 Denmark	52 France	53 Germany	54 Greece	55 Hungary
1961	348	2,521	1,537	9,140	7,139	1,773	3,324
1962	333	2,451	1,542	9,408	7,146	1,759	3,344
1963	299	2,425	1,570	9,160	7,169	1,644	3,173
1964	342	2,449	1,568	9,227	7,286	1,766	3,276
1965	323	2,311	1,597	9,377	7,230	1,780	3,230
1966	328	2,328	1,605	9,194	7,207	1,717	3,173
1967	333	2,213	1,638	9,304	7,286	1,691	3,184
1968	323	2,167	1,685	9,308	7,431	1,708	3,281
1969	322	2,154	1,704	9,376	7,499	1,636	3,252
1970	327	2,173	1,739	9,318	7,471	1,601	3,010
1971	311	2,222	1,757	9,544	7,572	1,634	3,135
1972	331	2,202	1,777	9,711	7,634	1,566	3,235
1973	339	2,098	1,762	9,768	7,663	1,520	3,255
1974	334	2,075	1,733	9,827	7,743	1,566	3,259
1975	329	2,246	1,720	9,666	7,806	1,549	3,133
1976	351	2,270	1,787	9,512	7,816	1,538	3,078
1977	357	2,241	1,821	9,704	7,801	1,506	3,004
1978	356	2,142	1,845	9,816	7,879	1,544	3,001
1979	366	2,186	1,850	9,802	7,723	1,576	2,929
1980	373	2,064	1,816	9,894	7,738	1,606	2,915
1981	362	2,080	1,787	9,715	7,615	1,618	2,790
1982	357	2,135	1,768	9,719	7,584	1,618	2,881
1983	350	2,134	1,698	9,373	7,582	1,572	2,907
1984	350	2,056	1,674	9,728	7,513	1,533	2,912
1985	343	1,847	1,601	9,696	7,403	1,489	2,871
1986	350	2,098	1,578	9,502	7,327	1,467	2,883
1987	346	1,969	1,499	9,277	7,158	1,476	2,845
1988	347	2,110	1,587	9,221	7,138	1,456	2,865
1989	349	2,164	1,562	9,444	7,088	1,449	2,817
1990	321	2,048	1,570	9,060	6,945	1,470	2,779
1991	215	2,244	1,562	9,228	6,560	1,499	2,859
1992	191	2,213	1,612	9,346	6,514	1,397	2,714
1993	268	2,249	1,445	8,540	6,225	1,367	2,742
1994	281	2,283	1,410	8,163	6,235	1,364	2,932
1995	245	2,115	1,456	8,292	6,527	1,292	2,756
1996	222	1,765	1,523	8,840	6,708	1,319	2,814
1997	227	2,034	1,536	9,207	7,025	1,307	2,943
1998	238	1,832	1,517	9,205	7,032	1,296	2,865
1999	193	1,756	1,452	8,932	6,766	1,294	2,429

( Contd.)

Part I: Table 3 (Contd.)

Total Harvested Area of Cereals ('000 ha)

Europe

	56 Italy	57 Netherlands	58 Norway	59 Poland	60 Portugal	61 Romania	62 Slovakia	63 Spain
1961	6,387	522	228	9,046	1,890	7,029	-	6,930
1962	6,486	509	230	8,778	2,003	6,664	-	7,253
1963	6,299	488	232	8,838	2,010	6,709	-	7,228
1964	6,245	481	243	8,768	1,889	6,693	-	7,048
1965	6,057	484	240	8,506	1,864	6,767	-	7,094
1966	5,991	462	232	8,381	1,675	6,820	-	6,955
1967	5,769	438	228	8,409	1,632	6,604	-	7,208
1968	5,954	420	233	8,458	1,709	6,657	-	7,383
1969	5,922	406	244	8,669	1,631	6,563	-	7,351
1970	5,864	362	258	8,346	1,615	5,901	-	7,432
1971	5,515	350	268	8,452	1,460	6,167	-	7,436
1972	5,336	331	272	8,485	1,453	6,238	-	7,496
1973	5,279	293	280	8,247	1,320	5,793	-	7,298
1974	5,271	261	291	8,088	1,349	5,903	-	7,519
1975	5,125	244	299	7,864	1,409	6,240	-	7,196
1976	5,145	240	298	7,769	1,505	6,351	-	7,231
1977	4,505	235	302	8,002	1,079	6,308	-	7,246
1978	5,138	235	306	7,853	1,257	6,318	-	7,513
1979	5,130	238	310	7,872	1,154	6,320	-	7,278
1980	5,111	224	316	7,847	1,104	6,469	-	7,527
1981	5,006	213	306	7,906	1,037	6,232	-	7,367
1982	5,115	205	320	8,094	1,071	6,023	-	7,452
1983	5,127	206	322	8,106	1,063	6,053	-	7,432
1984	5,074	196	328	8,159	985	6,273	-	7,587
1985	4,821	183	335	8,205	960	6,286	-	7,593
1986	4,850	170	341	8,238	935	6,201	-	7,708
1987	4,694	176	337	8,383	953	5,987	-	7,879
1988	4,571	197	343	8,439	892	5,905	-	7,897
1989	4,627	203	346	8,377	908	6,027	-	7,906
1990	4,413	195	356	8,531	760	5,704	-	7,551
1991	4,402	179	369	8,716	828	6,049	-	7,812
1992	4,225	181	359	8,321	752	5,774	-	7,402
1993	4,075	183	350	8,506	712	6,395	836	6,425
1994	4,104	189	346	8,481	686	6,325	859	6,480
1995	4,217	193	338	8,571	725	6,445	848	6,688
1996	4,224	200	334	8,720	670	5,841	827	6,751
1997	4,195	197	332	8,899	723	6,242	850	6,966
1998	4,075	203	333	8,844	479	5,722	859	6,553
1999	4,170	183	335	8,701	598	5,362	735	6,643

(Contd.)



Part I: Table 3 (Contd.)

Total Harvested Area of Cereals ('000 ha) Europe

	64 Sweden	65 United Kingdom
1961	1,383	3,061
1962	1,374	3,201
1963	1,378	3,262
1964	1,379	3,427
1965	1,393	3,658
1966	1,378	3,791
1967	1,395	3,826
1968	1,446	3,813
1969	1,487	3,700
1970	1,539	3,717
1971	1,526	3,814
1972	1,525	3,804
1973	1,530	3,756
1974	1,548	3,752
1975	1,530	3,655
1976	1,585	3,685
1977	1,598	3,706
1978	1,552	3,817
1979	1,517	3,873
1980	1,509	3,939
1981	1,488	3,979
1982	1,510	4,030
1983	1,480	3,962
1984	1,535	4,038
1985	1,490	4,021
1986	1,487	4,029
1987	1,353	3,941
1988	1,288	3,901
1989	1,270	3,874
1990	1,285	3,657
1991	1,149	3,500
1992	1,119	3,487
1993	1,101	3,031
1994	1,149	3,042
1995	1,099	3,181
1996	1,217	3,354
1997	1,243	3,512
1998	1,301	3,426
1999	1,153	3,141

(Contd.)

**Part I: Table 3 (Contd.)**

**Total Harvested Area of Cereals ('000 ha)**

**Americas**

	66 Argentina	67 Brazil	68 Canada	69 Chile	70 Colombia	71 Costa Rica	72 Cuba
1961	10,288	11,169	16,985	1,024	1,158	103	275
1962	8,699	11,522	18,341	1,013	1,197	112	294
1963	11,468	12,565	18,556	992	1,119	108	263
1964	12,281	13,108	18,665	987	1,256	127	179
1965	9,866	14,248	18,625	958	1,440	110	145
1966	11,122	13,523	19,600	1,009	1,391	123	140
1967	12,186	14,493	19,803	969	1,250	128	146
1968	12,408	15,120	19,841	1,008	1,277	125	174
1969	11,885	15,774	18,335	951	1,144	114	222
1970	11,222	16,822	13,531	968	1,045	113	303
1971	12,322	17,674	18,114	968	1,115	95	274
1972	11,703	17,468	17,843	982	1,107	95	298
1973	11,689	16,804	18,757	785	1,116	134	331
1974	11,538	18,024	17,875	879	1,194	128	295
1975	11,780	19,310	18,082	970	1,194	149	262
1976	12,685	21,559	19,646	969	1,278	159	240
1977	10,299	21,284	18,641	929	1,188	143	229
1978	11,242	19,860	18,478	856	1,429	136	229
1979	11,007	20,861	17,688	884	1,373	142	224
1980	9,924	21,081	19,319	852	1,336	119	225
1981	12,366	19,894	21,677	724	1,375	148	222
1982	14,045	21,904	21,481	657	1,482	147	229
1983	13,580	18,084	21,522	635	1,344	155	227
1984	12,330	19,502	21,102	782	1,263	156	239
1985	11,522	19,702	21,709	800	1,181	164	237
1986	10,141	22,405	22,162	797	1,229	152	249
1987	9,635	23,457	21,545	875	1,321	133	231
1988	8,844	23,083	20,232	793	1,413	125	229
1989	8,494	21,971	22,127	804	1,611	94	245
1990	8,995	18,498	21,578	823	1,743	103	231
1991	8,103	19,815	20,868	707	1,611	88	222
1992	8,324	20,587	20,175	694	1,441	86	236
1993	8,809	18,264	19,409	622	1,406	66	162
1994	8,967	20,048	17,948	583	1,459	64	176
1995	8,626	19,749	18,267	618	1,308	65	165
1996	11,064	19,645	20,551	604	1,270	57	240
1997	10,772	19,274	19,162	683	1,141	77	261
1998	9,364	15,832	18,368	613	1,213	78	261
1999	10,384	17,457	17,456	534	1,074	82	206

( Contd.)

Part I: Table 3 (Contd.)

Total Harvested Area of Cereals ('000 ha)

Americas

	73	74	75	76	77	78	79	80
	Dominican Rep	Ecuador	El Salvador	Guatemala	Guyana	Mexico	Peru	Uruguay
1961	93	505	297	695	107	7,708	719	873
1962	91	568	302	715	100	7,653	746	816
1963	91	598	278	779	82	8,441	725	751
1964	97	651	268	796	150	8,994	782	844
1965	103	641	317	760	121	9,350	777	923
1966	104	592	335	748	138	10,068	808	815
1967	109	706	324	790	118	9,529	837	599
1968	119	587	341	781	116	9,736	709	894
1969	116	615	319	782	114	9,274	827	807
1970	113	595	342	757	112	9,740	867	759
1971	104	612	351	754	103	9,677	865	730
1972	97	626	346	758	82	9,510	839	538
1973	96	495	330	570	95	9,898	817	770
1974	101	496	350	656	117	9,059	808	850
1975	119	542	396	651	137	9,528	806	839
1976	152	565	373	727	100	9,526	846	884
1977	153	461	389	737	139	10,098	849	686
1978	154	330	415	698	117	9,850	759	623
1979	150	396	434	631	91	7,791	786	622
1980	151	415	428	747	96	9,542	640	552
1981	146	445	405	769	89	11,307	770	668
1982	131	418	369	747	98	8,446	808	523
1983	147	358	365	663	77	10,378	775	578
1984	186	442	375	713	98	10,270	858	554
1985	168	431	385	773	79	11,271	786	558
1986	146	817	390	786	85	10,332	822	480
1987	162	853	416	857	77	10,191	922	486
1988	148	845	418	735	76	9,696	955	513
1989	155	820	411	696	71	9,746	969	567
1990	122	802	425	718	54	10,543	685	514
1991	127	862	446	763	78	9,754	758	453
1992	153	918	486	823	84	9,932	613	550
1993	124	971	458	798	104	9,548	754	574
1994	124	999	452	684	104	10,646	835	505
1995	142	986	438	609	130	10,669	808	559
1996	142	1,049	408	639	138	11,481	884	670
1997	135	1,075	445	640	145	10,476	931	628
1998	148	1,068	442	560	132	10,683	1,019	565
1999	152	884	380	685	148	10,092	1,088	594

(Contd.)

**Part I: Table 3 (Contd.)****Total Harvested Area of Cereals ('000 ha)****Americas**

	81 USA	82 Venezuela
1961	64,953	449
1962	60,620	553
1963	62,464	503
1964	61,044	537
1965	60,462	571
1966	61,225	584
1967	65,913	740
1968	63,117	753
1969	59,333	766
1970	59,284	723
1971	63,853	704
1972	58,433	537
1973	64,592	560
1974	68,338	610
1975	72,111	665
1976	73,167	483
1977	72,286	819
1978	67,361	767
1979	68,444	848
1980	71,629	808
1981	77,816	785
1982	76,196	754
1983	58,699	672
1984	71,913	703
1985	72,824	898
1986	67,047	1,156
1987	59,171	1,213
1988	55,639	1,170
1989	63,474	825
1990	65,638	754
1991	62,029	879
1992	65,791	763
1993	60,176	721
1994	64,056	826
1995	59,617	816
1996	65,135	742
1997	64,659	783
1998	61,543	719
1999	58,530	646

( Contd.)

Part I: Table 3 (Contd.)

Total Harvested Area of Cereals ('000 ha) CIS Countries

	83 USSR* (upto 1991)	84 Armenia	85 Azerbaijan	86 Belarus	87 Georgia	88 Kazakhstan	89 Kyrgyzstan
1961	117,968	-	-	-	-	-	-
1962	121,446	-	-	-	-	-	-
1963	119,150	-	-	-	-	-	-
1964	122,678	-	-	-	-	-	-
1965	121,265	-	-	-	-	-	-
1966	118,880	-	-	-	-	-	-
1967	116,712	-	-	-	-	-	-
1968	116,420	-	-	-	-	-	-
1969	116,320	-	-	-	-	-	-
1970	114,191	-	-	-	-	-	-
1971	112,761	-	-	-	-	-	-
1972	114,276	-	-	-	-	-	-
1973	119,953	-	-	-	-	-	-
1974	121,361	-	-	-	-	-	-
1975	122,250	-	-	-	-	-	-
1976	122,679	-	-	-	-	-	-
1977	125,150	-	-	-	-	-	-
1978	123,407	-	-	-	-	-	-
1979	121,206	-	-	-	-	-	-
1980	121,778	-	-	-	-	-	-
1981	119,837	-	-	-	-	-	-
1982	117,860	-	-	-	-	-	-
1983	114,704	-	-	-	-	-	-
1984	112,910	-	-	-	-	-	-
1985	111,416	-	-	-	-	-	-
1986	109,753	-	-	-	-	-	-
1987	108,788	-	-	-	-	-	-
1988	108,361	-	-	-	-	-	-
1989	104,779	-	-	-	-	-	-
1990	103,907	-	-	-	-	-	-
1991	102,828	-	-	-	-	-	-
1992	103,699	179	627	2,578	266	22,466	578
1993	103,520	206	702	2,592	243	22,111	626
1994	96,231	180	627	2,589	243	20,593	589
1995	93,978	175	602	2,573	251	18,809	564
1996	90,413	182	621	2,497	267	17,148	606
1997	91,993	198	643	2,455	425	15,560	667
1998	83,038	191	590	2,284	381	11,363	622
1999	69,148	172	535	2,272	368	10,928	614

\* Figures after 1991 are the sum of CIS countries.

( Contd.)

**Part I: Table 3 (Contd.)**

**Total Harvested Area of Cereals ('000 ha)**

**CIS Countries**

	90 Moldova	91 Russian Fed	92 Tajikistan	93 Turkmenistan	94 Ukraine	95 Uzbekistan
1961	-	-	-	-	-	-
1962	-	-	-	-	-	-
1963	-	-	-	-	-	-
1964	-	-	-	-	-	-
1965	-	-	-	-	-	-
1966	-	-	-	-	-	-
1967	-	-	-	-	-	-
1968	-	-	-	-	-	-
1969	-	-	-	-	-	-
1970	-	-	-	-	-	-
1971	-	-	-	-	-	-
1972	-	-	-	-	-	-
1973	-	-	-	-	-	-
1974	-	-	-	-	-	-
1975	-	-	-	-	-	-
1976	-	-	-	-	-	-
1977	-	-	-	-	-	-
1978	-	-	-	-	-	-
1979	-	-	-	-	-	-
1980	-	-	-	-	-	-
1981	-	-	-	-	-	-
1982	-	-	-	-	-	-
1983	-	-	-	-	-	-
1984	-	-	-	-	-	-
1985	-	-	-	-	-	-
1986	-	-	-	-	-	-
1987	-	-	-	-	-	-
1988	-	-	-	-	-	-
1989	-	-	-	-	-	-
1990	-	-	-	-	-	-
1991	-	-	-	-	-	-
1992	676	59,686	266	331	12,542	1,225
1993	840	58,901	268	432	12,981	1,302
1994	746	54,347	240	429	12,078	1,570
1995	872	52,946	253	648	12,878	1,665
1996	863	51,988	353	661	11,676	1,738
1997	1,015	52,393	286	640	13,810	1,929
1998	878	50,483	286	640	12,025	1,320
1999	875	37,069	379	565	11,959	1,662

**Part I: Table 4**

**Total Production of Cereals ('000 MT)**

**The World and Regions**

Year	1 World	2 Asia	3 Africa	4 Europe	5 North America	6 South America
1961	805,286	263,329	44,934	242,084	180,586	44,697
1962	858,222	278,348	51,351	258,736	191,770	45,476
1963	867,226	294,710	52,721	232,919	208,866	50,286
1964	913,902	310,067	49,607	272,405	189,292	56,617
1965	914,247	308,690	50,243	257,507	215,663	54,008
1966	991,657	323,896	46,913	298,435	222,820	56,310
1967	1,031,972	343,119	59,289	298,157	237,862	60,734
1968	1,064,831	351,684	55,768	316,628	236,374	58,872
1969	1,072,868	359,101	57,623	314,425	240,972	61,250
1970	1,087,405	384,387	58,148	320,278	215,339	67,400
1971	1,194,114	393,095	63,218	349,380	276,466	68,856
1972	1,156,442	384,762	62,233	344,547	263,554	64,302
1973	1,245,716	409,572	55,076	384,644	274,018	70,947
1974	1,216,109	414,378	68,737	377,107	235,038	74,352
1975	1,241,113	451,564	66,146	322,390	285,724	75,876
1976	1,347,630	459,515	68,044	384,027	302,569	81,069
1977	1,332,921	460,700	63,742	374,299	308,016	81,130
1978	1,453,487	500,053	66,813	425,338	317,748	80,945
1979	1,412,452	508,285	62,986	372,666	337,941	79,013
1980	1,417,895	512,047	69,831	396,948	310,418	82,805
1981	1,497,020	533,365	74,710	360,889	380,447	99,147
1982	1,552,521	548,987	68,829	406,696	385,251	99,264
1983	1,478,307	607,223	62,609	398,134	254,831	94,551
1984	1,632,532	627,402	62,895	429,701	356,754	100,684
1985	1,665,499	611,057	79,602	421,534	394,580	104,274
1986	1,679,151	631,006	84,853	434,711	371,547	100,415
1987	1,618,076	623,069	79,955	426,168	331,388	105,431
1988	1,564,621	653,902	91,162	426,102	240,770	101,170
1989	1,700,318	674,663	94,612	446,011	331,203	99,169
1990	1,779,332	714,576	88,097	455,439	367,827	93,943
1991	1,716,104	710,605	99,492	430,566	332,484	97,245
1992	1,797,446	770,054	84,380	405,987	401,106	111,559
1993	1,725,826	774,565	95,153	412,134	308,948	108,695
1994	1,781,046	762,004	106,106	382,999	401,745	113,214
1995	1,714,614	779,725	91,827	375,285	324,619	116,436
1996	1,879,286	821,899	119,438	387,578	392,997	123,009
1997	1,907,078	819,570	104,516	438,798	385,250	128,583
1998	1,866,826	822,284	108,130	384,424	399,162	121,795
1999	1,874,452	844,842	106,021	375,427	387,640	126,226

Source: Food and Agriculture Organisation of the United Nations.

Note: Cereals include wheat, rice, maize, oats, buckwheat, sorghum, millets, rye, barley, canary seed, triticale and others. Total production is expressed in milled rice equivalents.

(Contd.)

**Part I: Table 4 (Contd.)**

**Total Production of Cereals ('000 MT)**

**Asia and Oceania**

Year	7 Afghanistan	8 Australia	9 Bangladesh	10 Cambodia	11 China	12 India	13 Indonesia	14 Iran
1961	3,589	9,111	9,720	1,764	90,901	69,563	10,343	4,103
1962	3,590	11,097	8,978	1,512	98,519	70,666	11,917	4,119
1963	3,272	11,766	10,736	1,932	111,977	71,893	10,092	3,814
1964	3,605	12,953	10,596	2,045	123,737	74,072	11,977	3,992
1965	3,658	9,631	10,607	1,807	131,918	64,420	11,019	5,302
1966	3,377	16,523	9,681	1,721	144,819	64,934	12,822	6,223
1967	3,694	9,800	11,296	1,789	148,948	76,666	11,188	5,513
1968	3,782	18,829	11,494	2,322	144,567	82,583	14,614	6,268
1969	3,902	14,161	12,191	1,787	143,832	86,097	14,312	5,970
1970	3,390	12,821	11,339	2,681	163,152	92,818	15,719	6,096
1971	3,202	14,740	10,128	1,944	172,784	91,726	16,073	5,344
1972	3,817	10,699	10,284	1,365	167,731	89,012	15,190	6,387
1973	4,130	16,895	12,073	773	180,347	97,645	18,023	6,457
1974	4,211	16,232	11,468	494	192,316	86,930	18,000	6,494
1975	4,336	17,639	12,948	785	201,626	103,382	17,803	7,969
1976	4,475	17,309	12,038	809	207,155	100,629	18,114	8,661
1977	4,014	14,241	13,295	747	199,330	111,754	18,715	7,746
1978	4,239	25,111	13,464	747	226,384	116,122	21,219	7,966
1979	4,068	23,113	13,295	429	243,805	105,333	21,136	8,278
1980	3,934	16,198	14,765	1,246	232,693	113,747	23,769	8,146
1981	3,763	23,451	14,783	1,079	237,488	120,983	26,370	8,749
1982	3,603	13,901	15,239	1,351	260,480	112,534	25,635	9,687
1983	3,474	30,896	15,744	1,403	288,323	136,796	28,634	8,917
1984	3,307	28,391	15,952	888	305,609	135,323	30,725	9,558
1985	3,136	24,654	16,624	1,251	282,806	133,775	30,364	10,136
1986	2,972	23,773	16,571	1,447	293,883	134,726	32,418	11,304
1987	3,286	19,717	16,605	1,249	300,394	127,697	31,888	11,593
1988	2,883	21,638	16,686	1,709	294,717	148,446	34,450	11,644
1989	2,727	22,107	18,967	1,836	306,852	162,680	36,024	10,169
1990	2,594	22,738	18,830	1,756	340,589	156,784	36,868	13,024
1991	2,612	18,486	19,345	1,661	336,603	155,791	36,063	13,663
1992	2,670	24,778	19,493	1,541	341,544	165,374	40,172	15,025
1993	2,870	26,423	19,290	1,635	348,103	167,937	38,597	15,528
1994	3,085	15,027	18,084	1,528	337,213	173,195	37,979	15,939
1995	3,222	26,931	18,912	2,268	356,319	173,033	41,425	16,265
1996	3,405	34,548	20,237	2,326	388,186	176,512	43,392	15,446
1997	3,550	30,553	20,319	2,320	378,265	184,250	41,705	15,115
1998	3,726	31,315	20,903	2,406	382,875	178,737	42,390	17,038
1999	3,257	34,677	25,015	2,748	388,458	188,432	43,132	13,404

( Contd.)



Part I: Table 4 (Contd.)

Total Production of Cereals ('000 MT)

Asia and Oceania

Year	15 Iraq	16 Israel	17 Japan	18 Korea DPR	19 Korea Rep	20 Laos	21 Lebanon
1961	1,824	172	14,937	2,981	5,072	377	97
1962	2,295	153	14,998	3,093	4,546	358	106
1963	1,384	139	13,926	3,363	4,686	362	85
1964	1,568	329	13,633	3,487	5,601	509	89
1965	1,947	288	13,556	3,073	5,592	517	81
1966	1,798	137	13,400	3,365	6,227	523	96
1967	1,947	305	14,769	3,130	5,785	563	91
1968	2,782	223	14,745	3,025	5,678	539	65
1969	2,368	197	13,852	3,598	6,482	623	44
1970	2,052	155	12,170	3,589	6,211	627	54
1971	1,486	247	10,495	3,698	6,118	567	52
1972	3,812	386	11,024	3,540	6,149	571	76
1973	1,551	302	11,034	3,951	6,109	616	66
1974	1,938	353	11,196	4,166	6,225	631	92
1975	1,352	312	11,932	4,310	6,885	635	83
1976	2,055	251	10,681	4,540	7,469	471	56
1977	1,378	264	11,833	4,780	6,864	497	61
1978	1,723	191	11,243	4,813	7,701	512	57
1979	1,428	152	10,961	4,987	7,524	610	49
1980	1,836	303	9,133	4,871	4,908	731	45
1981	1,982	261	9,554	5,241	6,150	803	30
1982	2,011	197	9,725	5,456	6,150	763	30
1983	1,785	427	9,745	5,612	6,462	766	27
1984	1,064	171	11,068	5,964	6,615	915	26
1985	2,883	163	11,002	5,975	6,192	964	34
1986	2,234	203	10,957	6,383	6,016	1,008	47
1987	1,663	326	10,103	6,381	5,938	841	70
1988	2,544	223	9,731	6,387	6,413	720	73
1989	1,420	209	10,011	6,659	6,253	980	79
1990	3,379	303	10,079	6,882	5,863	1,061	77
1991	2,610	190	9,072	7,464	5,424	885	83
1992	2,899	267	9,885	7,183	5,414	1,061	88
1993	3,171	230	7,476	7,543	4,875	882	81
1994	2,701	108	10,800	6,157	5,013	1,108	79
1995	2,433	253	9,648	2,991	4,749	996	100
1996	2,910	191	9,363	2,016	5,244	1,021	94
1997	2,129	121	9,153	2,278	5,379	1,186	94
1998	2,196	121	8,262	3,461	5,379	1,224	94
1999	1,535	99	8,444	3,207	5,280	1,499	93

( Contd.)

**Part I: Table 4 (Contd.)**

**Total Production of Cereals ('000 MT)**

**Asia and Oceania**

Year	22 Malaysia	23 Myanmar	24 Nepal	25 New Zealand	26 Pakistan	27 Philippines	28 Saudi Arabia
1961	734	4,661	2,465	389	6,167	3,874	360
1962	759	5,251	2,475	347	6,394	3,919	360
1963	809	5,361	2,479	384	6,613	3,856	393
1964	752	5,832	2,548	457	6,891	3,976	396
1965	847	5,545	2,600	430	7,209	4,096	418
1966	828	4,624	2,458	479	6,600	4,221	423
1967	816	5,371	2,460	538	7,418	4,661	423
1968	971	5,529	2,567	752	9,777	4,697	431
1969	1,077	5,468	2,671	805	10,370	5,653	429
1970	1,138	5,588	2,789	582	10,999	5,738	432
1971	1,224	5,598	2,670	750	10,207	5,602	314
1972	1,240	5,039	2,547	894	10,637	4,924	110
1973	1,336	5,875	2,904	834	11,505	5,703	113
1974	1,421	5,875	2,939	623	11,360	6,277	300
1975	1,346	6,326	2,984	676	11,821	6,804	289
1976	1,356	6,397	2,939	920	12,896	7,149	282
1977	1,284	6,543	2,775	910	13,642	7,668	294
1978	1,011	7,264	2,870	829	13,130	7,912	301
1979	1,405	7,226	2,507	811	14,698	8,276	350
1980	1,372	9,246	2,971	756	15,514	8,229	266
1981	1,355	9,860	3,081	800	16,509	8,582	294
1982	1,265	10,053	2,611	882	16,355	8,829	489
1983	1,177	10,266	3,393	872	17,433	8,218	875
1984	1,070	10,213	3,407	1,118	15,880	8,662	1,444
1985	1,257	10,299	3,439	1,184	16,241	9,796	2,188
1986	1,191	10,158	3,210	1,188	19,125	10,259	2,461
1987	1,164	9,679	3,766	1,000	16,835	9,974	2,929
1988	1,221	9,263	4,213	769	17,642	10,412	3,692
1989	1,260	9,662	4,544	671	19,409	10,831	3,932
1990	1,342	9,771	4,681	868	19,328	11,447	4,137
1991	1,462	9,255	4,447	808	19,518	11,107	4,574
1992	1,417	10,401	4,041	736	20,567	10,964	4,703
1993	1,426	11,681	4,652	803	21,874	11,091	5,043
1994	1,478	12,667	4,442	843	20,617	11,159	5,046
1995	1,461	12,503	4,979	752	22,835	11,688	2,669
1996	1,381	12,452	5,136	904	23,013	11,925	1,938
1997	1,362	12,323	5,190	1,046	22,861	11,849	2,440
1998	1,344	11,669	5,262	839	24,964	9,529	2,440
1999	1,415	14,070	5,230	876	24,880	12,446	2,452

( Contd.)

Part I: Table 4 (Contd.)

Total Production of Cereals ('000 MT)

Asia and Oceania

Year	29 Sri Lanka	30 Thailand	31 Turkey	32 Vietnam	33 Yemen
1961	645	7,389	12,651	6,293	938
1962	719	8,190	14,636	6,815	964
1963	728	8,996	17,415	6,672	979
1964	742	8,693	14,399	6,788	1,003
1965	541	8,541	14,685	6,569	996
1966	685	10,262	16,428	5,902	918
1967	805	8,736	16,885	6,382	910
1968	933	9,672	15,895	5,842	894
1969	954	10,728	17,115	6,151	892
1970	1,106	11,246	15,900	7,045	845
1971	957	11,615	20,819	7,226	935
1972	906	9,699	18,651	7,471	821
1973	917	12,420	15,621	7,734	928
1974	1,117	11,683	16,984	7,680	880
1975	827	13,304	22,128	7,152	1,200
1976	889	12,880	24,372	8,277	1,041
1977	1,160	11,096	24,230	7,474	880
1978	1,303	14,667	24,258	6,966	818
1979	1,317	13,581	25,626	7,953	901
1980	1,460	14,829	24,339	8,201	865
1981	1,523	15,588	25,417	8,714	925
1982	1,475	14,507	26,441	10,040	862
1983	1,702	16,930	24,387	10,306	471
1984	1,662	17,889	26,221	10,879	480
1985	1,816	18,867	26,403	11,180	446
1986	1,777	17,118	29,267	11,249	700
1987	1,469	15,277	29,191	10,639	718
1988	1,699	19,087	30,806	12,159	843
1989	1,414	18,380	23,389	13,514	864
1990	1,734	15,444	30,125	13,499	767
1991	1,634	17,669	31,081	13,765	448
1992	1,595	17,232	29,086	15,154	811
1993	1,714	15,870	31,675	16,120	834
1994	1,829	18,309	26,948	16,843	802
1995	1,914	19,067	28,067	17,833	810
1996	1,412	19,688	29,251	19,149	664
1997	1,523	19,622	29,656	20,086	646
1998	1,834	20,700	33,077	21,055	833
1999	1,942	20,143	26,445	22,692	700

(Contd.)

Part I: Table 4 (Contd.)

Total Production of Cereals ('000 MT)

Africa

Year	34 Algeria	35 Egypt	36 Ethiopia	37 Libya	38 Madagascar	39 Morocco	40 Mozambique	41 Nigeria
1961	934	4,629	-	105	1,097	1,533	613	7,847
1962	2,367	5,761	-	124	1,141	3,506	575	8,238
1963	2,322	5,703	-	128	1,151	3,849	620	8,138
1964	1,486	5,674	-	118	1,236	3,395	626	8,032
1965	1,734	5,542	-	156	1,185	3,479	653	8,336
1966	774	5,921	-	160	1,213	2,172	698	6,074
1967	1,640	5,980	-	175	1,287	3,514	763	7,247
1968	2,126	6,587	-	153	1,342	6,339	693	7,290
1969	1,850	6,283	-	205	1,376	4,073	690	8,691
1970	2,057	6,611	-	82	1,409	4,238	653	8,867
1971	1,735	6,697	-	51	1,378	5,352	612	8,199
1972	2,362	6,651	-	160	1,392	5,163	725	5,660
1973	1,595	6,913	-	274	1,385	3,225	860	8,081
1974	1,479	6,936	-	187	1,463	4,805	761	10,110
1975	2,680	7,323	-	270	1,437	3,719	508	8,180
1976	2,313	7,423	-	333	1,499	5,707	741	7,088
1977	1,142	6,698	-	111	1,501	2,880	715	6,821
1978	1,538	7,432	-	299	1,398	4,737	665	5,833
1979	1,620	7,227	-	213	1,482	4,097	599	6,180
1980	2,419	7,306	-	215	1,536	4,505	638	7,521
1981	1,832	7,494	-	248	1,464	2,124	637	7,640
1982	1,524	7,709	-	293	1,429	4,915	606	8,022
1983	1,290	7,886	-	418	1,566	3,580	596	8,402
1984	1,461	7,710	-	275	1,564	3,758	637	10,070
1985	2,918	7,792	-	235	1,594	5,312	717	11,513
1986	2,403	7,940	-	285	1,642	7,818	798	14,190
1987	2,066	8,644	-	276	1,613	4,321	539	15,324
1988	1,038	9,054	-	283	1,592	7,948	531	15,867
1989	2,006	10,238	-	322	1,752	7,427	575	16,907
1990	1,627	11,967	-	273	1,775	6,275	702	16,846
1991	3,809	12,716	-	256	1,717	8,660	528	17,541
1992	3,330	13,309	-	248	1,775	2,944	231	18,511
1993	1,453	13,576	5,295	229	1,875	2,802	744	19,070
1994	964	13,486	5,245	184	1,732	9,619	758	19,565
1995	2,140	14,503	6,740	146	1,826	1,786	1,089	20,233
1996	4,902	14,912	9,379	160	1,853	10,089	1,333	20,613
1997	870	15,634	9,473	186	1,890	4,091	1,471	20,857
1998	3,031	16,090	7,197	208	1,795	6,626	1,624	21,636
1999	1,540	17,447	8,406	251	1,951	3,847	1,759	21,314

(Contd.)

Part I: Table 4 (Contd.)

Total Production of Cereals ('000 MT)

Africa

Year	42 Somalia	43 South Africa	44 Sudan	45 Syria	46 Tanzania	47 Tunisia	48 Zimbabwe
1961	255	6,692	1,682	1,143	984	562	1,266
1962	250	7,085	1,615	2,238	997	814	1,225
1963	243	7,454	1,792	2,033	1,317	1,193	1,030
1964	237	5,835	1,558	1,791	1,084	922	1,028
1965	235	5,840	1,417	1,788	1,099	1,142	1,134
1966	235	6,180	1,184	788	1,302	813	1,212
1967	250	11,864	2,446	1,691	1,124	683	1,880
1968	243	7,000	1,239	1,165	950	813	1,244
1969	247	7,047	2,000	1,664	1,044	632	1,933
1970	236	8,134	2,135	884	959	704	1,437
1971	222	11,024	2,214	1,139	1,173	836	2,273
1972	319	11,947	1,794	2,563	1,138	1,231	2,704
1973	186	6,464	2,169	726	1,472	1,128	1,294
1974	186	13,576	2,480	2,323	1,302	1,109	2,530
1975	242	11,552	2,855	2,195	2,050	1,271	2,196
1976	251	10,263	3,361	2,919	2,271	1,078	2,316
1977	263	12,297	2,923	1,639	2,534	700	2,049
1978	258	12,749	3,269	2,456	2,622	959	2,124
1979	258	11,196	1,983	1,763	3,140	980	1,517
1980	262	13,372	2,698	3,884	2,864	1,197	1,989
1981	378	17,996	4,101	3,559	2,776	1,262	3,314
1982	399	11,754	2,285	2,283	2,900	1,285	2,205
1983	360	6,665	2,524	2,696	2,758	951	1,199
1984	495	7,918	1,447	1,444	3,024	1,053	1,417
1985	510	11,053	4,112	2,543	3,480	2,098	3,418
1986	582	11,682	3,798	3,167	3,596	624	3,096
1987	539	12,088	1,699	2,300	3,823	1,917	1,505
1988	597	12,129	5,132	5,007	3,480	295	3,080
1989	647	15,355	1,974	1,407	4,555	641	2,553
1990	576	11,552	1,702	3,103	3,596	1,638	2,560
1991	252	11,289	4,637	3,294	3,569	2,556	2,060
1992	204	5,044	5,438	4,368	3,402	2,199	480
1993	163	12,792	3,101	5,393	3,704	1,917	2,497
1994	405	15,966	5,145	5,397	3,343	660	2,780
1995	284	7,491	3,305	6,098	4,385	623	987
1996	289	13,650	5,201	5,995	4,209	2,869	3,127
1997	283	13,098	4,502	4,325	3,206	1,056	2,673
1998	231	9,560	6,667	5,227	3,965	1,663	1,829
1999	207	10,024	3,062	3,276	3,752	1,819	1,987

(Contd.)

**Part I: Table 4 (Contd.)**

**Total Production of Cereals ('000 MT)**

**Europe**

Year	49 Albania	50 Bulgaria	51 Denmark	52 France	53 Germany	54 Greece	55 Hungary
1961	292	4,392	5,199	20,758	17,257	2,217	6,162
1962	312	4,453	5,783	25,262	21,167	2,404	6,817
1963	290	4,493	5,503	25,328	20,970	2,097	6,463
1964	347	5,222	6,213	26,010	22,737	2,839	6,907
1965	332	5,297	6,213	29,098	20,620	2,906	7,488
1966	430	6,807	5,960	26,704	20,742	3,105	7,611
1967	484	6,512	6,153	32,307	25,380	3,266	7,919
1968	498	5,273	6,785	33,209	26,898	2,565	8,440
1969	523	6,061	6,775	33,084	25,853	2,775	9,695
1970	534	6,767	6,232	31,413	23,754	3,357	7,625
1971	544	7,054	7,026	36,963	28,685	3,476	9,797
1972	582	8,133	7,067	40,468	28,780	3,405	10,783
1973	620	7,308	6,633	43,030	29,680	3,318	11,676
1974	642	6,589	7,261	41,054	32,357	3,787	12,450
1975	662	7,684	6,252	35,718	30,164	3,722	12,203
1976	852	8,479	5,902	32,719	27,324	3,989	11,337
1977	906	7,555	7,378	39,308	30,307	3,074	12,324
1978	928	7,471	7,492	45,442	33,762	4,288	13,378
1979	959	8,266	7,690	44,257	31,730	4,127	12,090
1980	876	7,625	7,070	48,016	32,713	5,310	14,001
1981	900	8,425	7,277	45,935	31,689	5,332	12,876
1982	966	9,942	7,993	48,659	34,646	5,564	14,903
1983	1,063	7,907	6,380	46,385	33,078	4,576	13,749
1984	1,035	9,229	9,300	58,132	37,839	5,481	15,719
1985	991	5,365	7,956	55,664	37,555	4,457	14,796
1986	1,042	8,471	7,969	50,354	37,257	5,246	14,286
1987	1,022	7,258	7,184	52,919	35,061	5,436	14,155
1988	995	7,802	8,068	56,046	36,932	5,583	14,950
1989	1,031	9,513	8,795	57,568	36,881	5,791	15,407
1990	895	8,107	9,607	55,070	37,580	4,431	12,548
1991	445	8,967	9,231	60,297	39,268	6,153	15,790
1992	430	6,555	6,954	60,597	34,758	5,000	9,976
1993	686	5,662	8,203	55,583	35,549	4,807	8,515
1994	666	6,408	7,800	53,366	36,336	5,208	11,715
1995	663	6,512	9,043	53,505	39,863	4,850	11,279
1996	523	3,377	9,218	62,561	42,136	4,518	9,320
1997	616	6,153	9,529	63,388	45,486	4,633	14,135
1998	637	5,476	9,306	67,668	44,580	4,498	13,488
1999	512	5,129	8,781	64,782	44,461	4,547	11,403

( Contd.)

Part I: Table 4 (Contd.)

Total Production of Cereals ('000 MT)

Europe

Year	56 Italy	57 Netherlands	58 Norway	59 Poland	60 Portugal	61 Romania	62 Slovakia
1961	13,700	1,926	637	16,123	1,424	10,602	-
1962	14,212	2,178	475	14,045	1,706	9,671	-
1963	13,137	1,947	599	15,178	1,610	10,419	-
1964	13,800	2,116	630	14,092	1,478	11,089	-
1965	14,362	1,779	614	16,162	1,550	12,586	-
1966	14,171	1,623	504	15,795	1,296	13,881	-
1967	14,917	1,841	624	16,266	1,742	13,489	-
1968	14,832	1,654	820	17,946	1,892	12,750	-
1969	15,561	1,617	642	18,574	1,497	12,801	-
1970	15,881	1,363	826	16,262	1,612	10,610	-
1971	16,045	1,511	864	19,871	1,875	14,508	-
1972	15,367	1,319	811	20,403	1,615	16,898	-
1973	15,405	1,359	912	21,859	1,474	13,794	-
1974	16,299	1,314	1,099	22,977	1,481	13,533	-
1975	16,592	1,093	766	19,558	1,558	15,243	-
1976	16,201	1,148	846	20,863	1,597	19,779	-
1977	14,182	1,121	1,078	19,399	986	18,599	-
1978	17,347	1,361	1,126	21,537	1,075	18,294	-
1979	17,253	1,285	1,104	17,341	1,086	18,567	-
1980	17,673	1,275	1,151	18,336	1,356	19,354	-
1981	18,160	1,279	1,133	19,721	1,052	16,357	-
1982	18,002	1,379	1,201	21,166	1,244	19,939	-
1983	17,741	1,309	1,072	22,099	1,109	17,638	-
1984	19,592	1,407	1,407	24,392	1,425	20,008	-
1985	17,655	1,132	1,302	23,741	1,331	19,457	-
1986	18,319	1,263	1,109	25,036	1,608	19,674	-
1987	18,045	1,104	1,285	26,060	1,672	16,851	-
1988	17,036	1,222	1,066	24,504	1,418	19,243	-
1989	16,718	1,368	1,180	26,958	1,785	18,356	-
1990	16,981	1,361	1,568	28,014	1,375	17,151	-
1991	18,808	1,252	1,482	27,812	1,733	19,296	-
1992	19,467	1,350	1,010	19,962	1,301	12,275	-
1993	19,337	1,466	1,402	23,417	1,426	15,481	3,157
1994	18,733	1,355	1,271	21,763	1,601	18,179	3,700
1995	19,252	1,505	1,227	25,905	1,405	19,875	3,489
1996	20,437	1,659	1,345	25,298	1,615	14,191	3,322
1997	19,432	1,373	1,288	25,569	1,442	22,093	3,740
1998	20,169	1,434	1,405	26,865	1,202	15,070	3,485
1999	20,548	1,367	1,299	25,750	1,637	53,697	2,829

(Contd.)

**Part I: Table 4 (Contd.)****Total Production of Cereals ('000 MT)****Europe**

Year	63 Spain	64 Sweden	65 United Kingdom
1961	7,370	3,891	9,722
1962	9,144	3,633	11,791
1963	9,286	3,514	11,365
1964	8,174	4,465	12,799
1965	8,756	4,397	13,717
1966	9,108	3,505	13,439
1967	10,549	4,546	14,650
1968	11,463	4,908	13,143
1969	11,316	3,982	13,580
1970	10,132	4,988	13,267
1971	13,567	5,397	14,975
1972	11,962	5,136	15,534
1973	11,513	4,719	15,316
1974	13,153	6,490	16,395
1975	14,081	5,168	13,936
1976	12,636	5,434	13,263
1977	13,823	5,395	16,727
1978	16,206	5,741	17,262
1979	13,743	5,212	17,417
1980	18,521	5,312	19,473
1981	11,428	5,695	19,629
1982	13,014	5,924	21,919
1983	13,684	5,407	21,306
1984	20,886	6,897	26,614
1985	20,818	5,629	22,486
1986	16,354	5,811	24,509
1987	20,536	5,170	21,698
1988	23,665	4,743	21,063
1989	19,584	5,493	22,729
1990	18,571	6,380	22,569
1991	19,264	5,160	22,635
1992	14,295	3,760	22,063
1993	17,371	5,242	19,482
1994	15,095	4,472	19,948
1995	11,465	4,860	21,859
1996	22,083	5,995	24,567
1997	19,056	5,986	23,519
1998	21,945	5,697	22,670
1999	17,714	4,931	22,126

( Contd.)



## Part I: Table 4 (Contd.)

## Total Production of Cereals ('000 MT)

## Americas

Year	66 Argentina	67 Brazil	68 Canada	69 Chile	70 Colombia	71 Costa Rica	72 Cuba
1961	14,462	13,241	16,730	1,442	1,319	99	262
1962	13,901	14,068	29,261	1,364	1,422	110	279
1963	17,272	14,705	34,122	1,535	1,368	112	278
1964	20,758	14,356	28,505	1,629	1,627	124	187
1965	13,755	17,827	32,229	1,594	1,589	141	139
1966	17,263	15,936	38,663	1,889	1,584	147	144
1967	19,503	18,061	30,080	1,863	1,556	157	145
1968	16,202	18,204	34,413	1,931	1,690	163	172
1969	18,362	18,421	35,922	1,578	1,608	148	236
1970	19,786	21,183	28,561	1,815	1,638	136	338
1971	21,880	20,619	38,860	1,909	1,822	143	326
1972	18,736	20,453	35,466	1,798	1,880	148	303
1973	23,775	21,337	36,600	1,302	1,958	151	312
1974	23,504	23,988	30,865	1,642	2,332	159	387
1975	22,924	23,647	37,108	1,646	2,301	218	393
1976	24,207	27,894	44,710	1,374	2,416	222	396
1977	22,047	27,919	42,239	1,938	2,205	238	400
1978	27,228	21,604	41,896	1,448	2,790	247	401
1979	24,749	24,618	35,955	1,877	2,773	253	380
1980	18,432	29,962	41,365	1,723	2,631	271	415
1981	29,902	29,311	50,862	1,502	2,785	262	404
1982	34,131	30,597	53,333	1,404	2,944	207	443
1983	31,520	26,620	47,447	1,399	2,775	290	441
1984	31,641	29,705	42,794	2,061	2,687	289	466
1985	27,954	33,006	48,239	2,308	2,564	306	446
1986	25,989	33,834	56,965	2,633	2,561	281	477
1987	22,789	40,677	51,635	2,770	2,977	248	407
1988	22,215	38,973	35,494	2,746	2,963	247	422
1989	17,914	40,261	48,056	3,086	3,308	193	439
1990	19,936	29,999	56,797	2,935	3,609	211	382
1991	21,476	33,641	53,850	2,825	3,369	191	342
1992	25,211	40,751	49,639	2,856	3,096	195	299
1993	24,895	39,603	51,416	2,600	2,992	148	168
1994	25,068	42,280	46,582	2,575	3,079	149	226
1995	23,900	45,874	49,325	2,717	2,868	147	231
1996	30,171	43,045	58,465	2,527	2,888	149	351
1997	35,218	44,228	49,446	3,048	2,619	153	386
1998	34,458	37,888	51,150	2,781	2,817	167	386
1999	34,082	43,570	53,911	2,148	2,600	217	432

(Contd.)

**Part I: Table 4 (Contd.)**

**Total Production of Cereals ('000 MT)**

**Americas**

Year	73 Dominican Rep	74 Ecuador	75 El Salvador	76 Guatemala	77 Guyana	78 Mexico	79 Peru	80 Uruguay
1961	127	442	273	567	145	8,406	960	731
1962	126	456	319	618	148	8,510	1,000	744
1963	129	520	312	661	110	9,440	925	571
1964	145	420	301	720	201	11,619	1,086	899
1965	156	526	332	725	166	12,363	1,109	848
1966	169	503	414	669	188	12,864	1,148	683
1967	158	551	369	685	150	12,929	1,243	412
1968	171	434	435	781	119	13,810	984	761
1969	185	569	431	814	129	13,712	1,199	794
1970	199	574	540	883	142	14,871	1,323	832
1971	205	523	570	849	126	14,683	1,318	715
1972	209	514	406	908	109	14,260	1,265	559
1973	214	530	587	922	116	14,714	1,237	929
1974	239	547	505	926	190	14,455	1,243	1,126
1975	209	646	655	1,059	201	16,387	1,307	909
1976	293	646	523	959	118	16,324	1,439	1,074
1977	290	522	553	967	240	17,779	1,459	665
1978	313	380	703	1,049	206	18,764	1,207	762
1979	312	485	722	1,098	162	15,489	1,294	857
1980	321	553	710	1,068	190	20,739	1,015	797
1981	327	642	669	1,161	185	25,321	1,391	1,095
1982	344	658	562	1,259	200	20,023	1,479	936
1983	415	470	595	1,228	165	22,467	1,352	977
1984	475	673	710	1,135	202	23,546	1,786	969
1985	443	700	674	1,270	172	27,134	1,537	888
1986	397	936	616	1,383	185	23,372	1,649	766
1987	430	1,037	633	1,359	165	23,439	1,965	909
1988	377	1,126	787	1,374	154	20,916	1,992	1,176
1989	419	1,151	781	1,406	161	21,249	2,079	1,314
1990	346	1,103	804	1,420	107	25,430	1,471	1,005
1991	371	1,161	708	1,366	171	23,557	1,512	934
1992	441	1,288	968	1,500	193	26,766	1,231	1,341
1993	351	1,489	884	1,430	234	25,105	1,680	1,208
1994	291	1,588	706	1,283	265	26,687	1,948	1,257
1995	386	1,470	872	1,153	339	26,761	1,757	1,529
1996	369	1,525	839	1,132	366	29,182	1,940	1,894
1997	402	1,458	742	1,212	382	27,906	2,095	1,723
1998	375	1,453	817	1,079	358	28,980	2,309	1,697
1999	420	1,485	828	1,186	403	28,293	2,738	1,751

( Contd.)

**Part I: Table 4 (Contd.)**

**Total Production of Cereals ('000 MT)**

**Americas**

Year	81 USA	82 Venezuela
1961	162,982	475
1962	161,619	610
1963	173,848	519
1964	159,960	589
1965	182,639	659
1966	183,342	699
1967	206,966	799
1968	201,135	847
1969	204,099	839
1970	185,716	868
1971	236,534	819
1972	227,018	624
1973	236,450	665
1974	203,094	786
1975	247,590	966
1976	256,729	680
1977	264,712	1,386
1978	274,772	1,266
1979	300,876	1,418
1980	267,915	1,341
1981	328,465	1,254
1982	330,760	1,284
1983	206,121	1,152
1984	312,608	1,292
1985	345,030	1,665
1986	313,257	2,143
1987	278,475	2,294
1988	204,030	2,357
1989	281,857	1,794
1990	309,964	1,709
1991	277,539	2,083
1992	350,290	1,763
1993	256,615	1,887
1994	354,250	1,968
1995	274,309	2,176
1996	333,420	1,974
1997	334,542	2,149
1998	346,862	1,773
1999	332,444	1,920

( Contd.)

**Part I: Table 4 (Contd.)**

**Total Production of Cereals ('000 MT)**

**CIS Countries**

Year	83 USSR*	84 Armenia	85 Azerbaijan	86 Belarus	87 Georgia	88 Kazakhstan	89 Kyrgyzstan
1961	118,699	-	-	-	-	-	-
1962	124,113	-	-	-	-	-	-
1963	92,947	-	-	-	-	-	-
1964	131,735	-	-	-	-	-	-
1965	106,534	-	-	-	-	-	-
1966	153,005	-	-	-	-	-	-
1967	131,487	-	-	-	-	-	-
1968	151,012	-	-	-	-	-	-
1969	143,864	-	-	-	-	-	-
1970	166,612	-	-	-	-	-	-
1971	161,942	-	-	-	-	-	-
1972	149,736	-	-	-	-	-	-
1973	195,942	-	-	-	-	-	-
1974	173,475	-	-	-	-	-	-
1975	124,880	-	-	-	-	-	-
1976	199,350	-	-	-	-	-	-
1977	174,736	-	-	-	-	-	-
1978	213,033	-	-	-	-	-	-
1979	162,259	-	-	-	-	-	-
1980	169,495	-	-	-	-	-	-
1981	142,955	-	-	-	-	-	-
1982	168,588	-	-	-	-	-	-
1983	171,906	-	-	-	-	-	-
1984	152,052	-	-	-	-	-	-
1985	168,901	-	-	-	-	-	-
1986	186,200	-	-	-	-	-	-
1987	184,213	-	-	-	-	-	-
1988	171,336	-	-	-	-	-	-
1989	187,252	-	-	-	-	-	-
1990	208,387	-	-	-	-	-	-
1991	155,299	-	-	-	-	-	-
1992	188,160	307	1,267	7,061	496	29,503	1,602
1993	181,878	344	1,089	7,240	402	21,406	1,597
1994	145,153	226	1,034	5,872	471	16,281	1,063
1995	121,707	260	877	5,314	498	9,415	1,043
1996	121,536	368	966	5,478	631	11,135	1,404
1997	156,298	278	1,069	5,919	902	12,274	1,726
1998	98,846	360	1,005	4,584	657	6,309	1,687
1999	110,447	297	1,002	3,412	771	14,182	1,612

\* Figures after 1991 are the sum of CIS countries.

( Contd.)

Part I: Table 4 (Contd.)

Total Production of Cereals ('000 MT)

CIS Countries

Year	90 Moldova	91 Russian Fed	92 Tajikistan	93 Turkmenistan	94 Ukraine	95 Uzbekistan
1961	-	-	-	-	-	-
1962	-	-	-	-	-	-
1963	-	-	-	-	-	-
1964	-	-	-	-	-	-
1965	-	-	-	-	-	-
1966	-	-	-	-	-	-
1967	-	-	-	-	-	-
1968	-	-	-	-	-	-
1969	-	-	-	-	-	-
1970	-	-	-	-	-	-
1971	-	-	-	-	-	-
1972	-	-	-	-	-	-
1973	-	-	-	-	-	-
1974	-	-	-	-	-	-
1975	-	-	-	-	-	-
1976	-	-	-	-	-	-
1977	-	-	-	-	-	-
1978	-	-	-	-	-	-
1979	-	-	-	-	-	-
1980	-	-	-	-	-	-
1981	-	-	-	-	-	-
1982	-	-	-	-	-	-
1983	-	-	-	-	-	-
1984	-	-	-	-	-	-
1985	-	-	-	-	-	-
1986	-	-	-	-	-	-
1987	-	-	-	-	-	-
1988	-	-	-	-	-	-
1989	-	-	-	-	-	-
1990	-	-	-	-	-	-
1991	-	-	-	-	-	-
1992	1,976	103,543	254	711	35,520	1,998
1993	3,219	95,996	250	980	42,702	1,983
1994	1,628	78,475	241	1,089	32,934	2,336
1995	2,683	61,748	234	1,076	32,333	3,114
1996	1,977	67,460	470	574	23,459	3,409
1997	3,487	86,693	520	787	34,372	3,639
1998	2,509	46,663	520	787	25,695	3,628
1999	2,138	-	442	1,556	23,932	4,172

**Part I: Table 5**

**Gross Irrigated Rice Area ('000 ha), Selected Asian Countries, 1961-2000**

	1	2	3	4	5	6
	Bangladesh	India	Indonesia	Japan	Korea Rep	Myanmar
1961	368	12,985	-	3,134	665	473
1962	433	13,361	-	3,134	682	499
1963	457	13,254	-	3,133	684	663
1964	446	13,556	-	3,126	686	683
1965	488	12,909	-	3,123	701	633
1966	517	13,305	-	3,129	729	662
1967	568	13,923	-	3,149	744	691
1968	802	13,780	-	3,171	746	741
1969	902	14,199	-	3,173	983	722
1970	1,011	14,339	-	2,836	1,021	736
1971	962	14,082	-	2,626	1,022	753
1972	1,046	14,417	5,736	2,581	1,028	732
1973	1,145	14,668	5,196	2,568	1,042	826
1974	1,277	14,673	5,352	2,675	1,050	872
1975	1,218	15,220	5,608	2,719	1,065	875
1976	980	14,772	5,792	2,741	1,082	831
1977	1,212	16,196	5,960	2,723	1,104	857
1978	1,177	16,861	5,867	2,516	1,121	909
1979	1,230	16,908	5,713	2,468	866	833
1980	1,259	16,340	5,928	2,350	893	873
1981	1,339	17,114	6,050	2,251	908	865
1982	1,459	16,073	-	2,230	917	805
1983	1,502	17,720	6,489	2,246	929	838
1984	1,582	18,006	-	2,290	935	861
1985	1,613	17,677	-	2,318	948	858
1986	1,717	18,082	7,769	2,280	965	875
1987	1,957	16,971	8,012	2,123	976	798
1988	2,221	18,725	-	2,087	981	835
1989	2,406	19,200	-	2,076	985	852
1990	2,479	19,200	-	2,055	987	869
1991	2,706	19,039	7,403	2,033	988	835
1992	2,710	19,633	-	2,092	973	957
1993	-	20,748	-	-	975	1,338
1994	3,428	21,396	-	-	-	1,592
1995	3,557	21,457	-	-	-	1,767
1996	-	-	-	-	-	1,563
1997	-	-	-	-	-	-
1998	-	-	-	-	-	-
1999	-	-	-	-	-	-

Source: International Rice Research Institute.

(Contd.)

Part I: Table 5

Gross Irrigated Rice Area ('000 ha), Selected Asian Countries, 1961-2000

	7	8	9	10	11	12
	Nepal	Pakistan	Philippines	Sri Lanka	Thailand	Vietnam
1961	-	1,214	951	368	1,404	
1962	-	1,186	1,096	362	1,574	
1963	-	1,286	914	364	1,662	
1964	-	1,356	953	388	1,635	
1965	-	1,393	971	356	1,744	
1966	-	1,410	1,166	374	1,745	
1967	-	1,420	1,217	388	1,744	
1968	-	1,555	1,470	390	1,735	
1969	-	1,622	1,386	424	1,764	
1970	-	1,503	1,432	459	1,758	
1971	-	1,456	1,411	451	1,853	
1972	-	1,480	1,356	421	1,791	
1973	-	1,512	1,448	424	1,808	
1974	-	1,604	1,438	459	1,809	
1975	103	1,710	1,492	437	1,845	
1976	107	1,749	1,548	402	1,909	1,920
1977	127	1,899	1,542	422	1,923	2,050
1978	135	2,026	1,527	503	1,959	1,920
1979	157	2,035	1,535	519	2,022	2,190
1980	198	1,933	1,609	524	2,006	2,250
1981	208	1,976	1,656	531	2,100	2,310
1982	219	1,978	1,741	542	2,180	2,380
1983	233	1,999	1,668	527	2,111	2,430
1984	251	1,999	1,755	633	2,307	2,490
1985	291	1,863	1,838	599	2,376	2,510
1986	302	2,066	1,878	607	2,376	2,539
1987	-	1,963	1,852	524	2,390	2,564
1988	-	2,042	1,956	558	2,338	2,639
1989	-	2,107	2,064	553	2,485	3,141
1990	-	2,113	2,010	476	2,067	3,195
1991	325	2,097	2,060	553	-	3,336
1992	-	1,973	1,980	479	2,206	-
1993	-	2,207	2,017	548	-	-
1994	-	-	-	-	-	-
1995	-	-	-	-	-	-
1996	-	-	2,484	-	-	-
1997	-	-	2,496	-	-	-
1998	-	-	-	-	-	-
1999	-	-	-	-	-	-

## Part I: Table 6

### World Prices of Major Cereals and Urea

#### Nominal Prices of Wheat, Rice, Maize and Urea, 1950-2000 (US\$/MT)

	Wheat <sup>a</sup>	Rice <sup>b</sup>	Maize <sup>c</sup>	Urea <sup>d</sup>
1965	66	136	55	96
1970	63	144	58	48
1971	64	129	58	46
1972	71	147	56	59
1973	147	350	98	95
1974	209	542	132	316
1975	181	363	120	198
1976	149	255	112	112
1977	116	272	95	127
1978	135	368	101	145
1979	172	334	116	173
1980	191	434	125	222
1981	196	483	131	216
1982	167	293	109	159
1983	170	277	136	135
1984	165	252	136	171
1985	173	216	112	136
1986	161	210	88	107
1987	134	230	76	117
1988	180	301	107	155
1989	201	320	112	132
1990	156	287	109	157
1991	143	314	107	172
1992	177	287	104	140
1993	193	270	102	107
1994	199	357	108	148
1995	207	328	124	212
1996	231	339	166	206
1997	185	303	118	146
1998	163	304	102	121
1999	151	248	90	78
2000	147	202	89	112

<sup>a</sup> Calendar year averages for Canadian Western Red Spring export prices, in store. ST. Lawrence.

<sup>b</sup> Calendar year average prices for Thai 5% broken, Board of Trade posted price, f.o.b. Bangkok.

<sup>c</sup> Calendar year average prices for US No. 2. Yellow, f.o.b. Gulf Ports.

<sup>d</sup> Calendar year average prices for Urea f.o.b. Europe.

Source: World Rice Statistics, IRRI.



## Part I: Table 7

### Commonly Used Price Indices

	MUV Deflator <sup>a</sup> (1990 = 100)	USCPI-U <sup>b</sup> (1982-84 = 100)
1950	16	24.1
1955	19	26.8
1960	21	29.6
1965	22	31.5
1970	25	38.8
1971	26	40.5
1972	29	41.8
1973	33	44.4
1974	41	49.3
1975	45	53.8
1976	46	56.9
1977	50	60.6
1978	58	65.2
1979	66	72.6
1980	72	82.4
1981	72	90.9
1982	71	96.5
1983	70	99.6
1984	63	103.9
1985	69	107.6
1986	81	109.6
1987	89	113.6
1988	95	118.3
1989	95	124.0
1990	100	130.7
1991	102	136.2
1992	107	140.3
1993	106	144.5
1994	110	148.2
1995	119	152.4
1996	114	156.9
1997	108	160.5
1998	104	163.0
1999	104	166.6
2000	104	172.2

<sup>a</sup>MUV Index: The G-5 Manufacturing Unit Value Index. The MUV index is the c.i.f. index of US dollar prices of industrial countries' manufactured exports to the developing countries.

<sup>b</sup>United States Consumer Price Index, Urban US Bureau of Labor Statistics.

**Part I: Table 8**

**Total Annual Per Capita Water Diversions by Sector, 1995**

**(Diversions in cubic meters per person per year)**

<u>Country</u>	<u>Sector</u>			Total
	Irrigation	Domestic	Industrial	
Afghanistan	1563	13	1	1577
Albania	71	6	17	94
Algeria	77	40	24	141
Angola	32	6	4	43
Argentina	501	72	144	716
Australia	968	541	17	1526
Azerbaijan	1524	109	544	2177
Bahrain	341	238	24	603
Bangladesh	196	6	2	204
Barbados	8	61	48	117
Belarus	92	58	114	264
Belgium	37	101	779	917
Benin	18	6	3	26
Bhutan	8	5	2	15
Bolivia	157	17	8	182
Botswana	42	28	18	88
Brazil	163	99	39	301
Bulgaria	460	110	596	1166
Burkina Faso	42	7	1	50
Burundi	14	6	1	20
Cambodia	77	3	1	80
Cameroon	4	14	6	24
Canada	86	168	1219	1472
Cape Verde	61	7	14	82
Central African Republic	2	5	1	8
Chad	21	5	1	26
Chile	842	72	60	973
China	427	23	27	477
Colombia	19	62	24	105
Congo Democratic Republic	1	5	1	8
Congo Republic of	0	10	4	14
Costa Rica	274	16	28	319
Côte d'Ivoire	38	12	6	56
Cuba	794	68	15	876
Cyprus	734	56	16	806
Czech Republic	34	87	258	379
Denmark	124	87	78	289
Djibouti	21	3	0	24
Dominican Republic	366	19	23	409
Ecuador	383	34	15	432
Egypt	617	53	71	741
El Salvador	120	12	7	139

( Contd.)

**Part I: Table 8 (Contd.)**

**Total Annual Per Capita Water Diversions by Sector, 1995**

**(Diversions in cubic meters per person per year)**

<u>Country</u>	<u>Sector</u>			<u>Total</u>
	Irrigation	Domestic	Industrial	
Equatorial Guinea	2	23	4	29
Estonia	5	60	42	107
Ethiopia	17	4	1	23
Finland	23	93	658	774
France	109	100	433	642
Gabon	3	37	11	51
Gambia	21	2	0	23
Georgia	376	134	127	637
Germany	18	89	432	538
Ghana	5	6	2	13
Greece	333	44	161	539
Guatemala	29	6	12	46
Guinea	88	11	3	102
Guinea-Bissau	6	10	1	17
Haiti	54	1	0	56
Honduras	83	11	13	108
Hungary	105	61	371	537
Iceland	21	108	220	349
India	632	12	17	661
Indonesia	310	11	9	330
Iran	1,468	62	21	1,550
Iraq	1,666	63	105	1,834
Ireland	27	43	198	268
Israel	193	53	17	263
Italy	362	138	266	766
Jamaica	135	11	11	157
Japan	502	123	240	865
Jordan	142	41	6	188
Kazakhstan	1,149	40	340	1,529
Kenya	31	15	3	50
Korea DPR	317	70	103	490
Korea Republic	245	68	86	399
Kuwait	143	88	5	236
Kyrgyzstan	2,361	68	68	2,496
Laos	187	18	23	228
Latvia	15	63	36	114
Lebanon	184	76	11	271
Lesotho	16	6	6	28
Liberia	30	14	7	51
Libya	652	94	17	763
Lithuania	2	55	11	68
Luxembourg		50	54	104
Madagascar	173	11	1	185

( Contd.)

**Part I: Table 8 (Contd.)**

**Total Annual Per Capita Water Diversions by Sector, 1995**

**(Diversions in cubic meters per person per year)**

<u>Country</u>	<u>Sector</u>			Total
	Irrigation	Domestic	Industrial	
Malawi	92	11	4	107
Malaysia	165	109	143	417
Mali	115	3	1	119
Malta	8	59	1	68
Mauritania	262	43	14	319
Mauritius	256	54	23	333
Mexico	663	51	68	783
Moldova Republic	173	60	434	667
Mongolia	169	30	73	272
Morocco	409	21	12	442
Mozambique	34	3	1	38
Myanmar	53	6	3	62
Namibia	96	40	4	140
Nepal	233	5	1	240
Netherlands	78	25	309	412
New Zealand	167	174	38	379
Nicaragua	82	54	46	182
Niger	99	9	1	108
Nigeria	69	10	5	84
Norway	39	98	352	489
Oman	306	16	6	328
Pakistan	1,411	23	23	1,456
Panama	76	60	55	192
Paraguay	109	13	6	128
Peru	122	49	23	195
Philippines	329	79	92	500
Poland	10	51	192	253
Portugal	282	111	274	667
Qatar	307	95	12	414
Romania	832	91	377	1,300
Russian Federation	191	99	324	614
Rwanda	99	5	2	106
Saudi Arabia	695	82	9	786
Senegal	128	8	5	142
Sierra Leone	79	6	4	89
Singapore	3	38	43	84
Somalia	232	2	1	235
South Africa	328	71	41	440
Spain	510	97	209	816
Sri Lanka	553	7	7	567
Sudan	712	27	7	745
Suriname	1,051	71	59	1,181
Swaziland	797	13	20	830

( Contd.)

**Part I: Table 8 (Contd.)**

**Total Annual Per Capita Water Diversions by Sector, 1995**

**(Diversions in cubic meters per person per year)**

<u>Country</u>	<u>Sector</u>			Total
	Irrigation	Domestic	Industrial	
Sweden	43	172	263	478
Switzerland	20	115	366	501
Syria	832	41	20	893
Tajikistan	1,263	59	79	1,401
Tanzania	32	4	1	36
Thailand	297	22	33	353
Togo	7	16	3	26
Trinidad and Tobago	52	40	57	149
Tunisia	211	31	10	252
Turkey	699	83	57	839
Turkmenistan	3,224	57	57	3,337
Uganda	2	3	1	5
UK	4	41	156	200
Ukraine	324	91	264	679
Untied Arab Emirates	379	136	51	566
Uruguay	520	12	6	539
USA	723	211	810	1,745
Uzbekistan	1,800	99	49	1,948
Venezuela	95	84	21	200
Vietnam	373	51	35	460
Yemen	404	14	2	420
Yugoslavia	47	63	283	393
Zambia	50	34	15	98
Zimbabwe	107	16	8	131

**Part I: Table 9**

**Riverbasins with over 100,000 ha of Irrigated Area**

Riverbasin	Country	Basin Area '000 Sq.km	Croplands % of basin area	Irrigated Croplands % of croplands	Population Density persons/sq.km	Irrigated Area <sup>b</sup> '000 ha
Yangtze	China	1,722	56	32	224	30,861
Mekong	Vietnam, Myanmar, Cambodia, Thailand	806	38	76	78	23,267
Xi jiang	China	409	76	61	210	18,982
Ganges	India, Nepal, Bangladesh	1,016	71	15	375	10,822
Irrawaddy	Myanmar	414	31	78	80	10,003
Brahmaputra	Bangladesh, India, Bhutan, China	651	29	47	174	8,878
Yellow river	China	945	29	32	162	8,770
Indus	Pakistan, Afghanistan, India, China	1,082	29	25	145	7,843
Chao Praya	Thailand	179	46	92	118	7,565
Krishna	India	226	67	39	248	5,906
Godavari	India	320	63	27	195	5,440
Syr Darya	Kazakastan, Uzbekistan	783	22	27	26	4,649
Mississippi	USA	3,202	35	4	21	4,483
Amu Darya	Afganistan, Tajikistan, Turkmenistan, Uzbekistan	535	22	35	33	4,118
Hong	China, Vietnam	171	38	52	180	3,379
Ob	Russia, Kazakastan	2,972	36	3	9	3,210
Amur	Russia, China	1,930	18	8	35	2,779
Lake Balkash	Kazakastan	512	24	21	11	2,581
Mahanadi	India	146	59	26	192	2,237
Yenisey	Russia, Mongolia	2,554	13	6	2	1,992
Tarim	China	1,152	2	74	10	1,706
Kapuas	Indonesia	89	33	57	22	1,669
Nile	Egypt, Sudan, Ethiopia, Uganda, Burundi, Rwanda	3,255	10	5	44	1,627
Columbia	USA	657	6	40	9	1,578
Tapti	India	75	78	27	233	1,571
Salween	Myanmar, China	272	6	60	76	979
Kura-Araks	Armenia, Azerbaijan, Turkey, Georgia, Russia, Iran	205	54	6	72	664
Colarado	USA	703	1	86	10	605
Lena	Russia	2,307	2	10	1	461

(Contd.)

Part I: Table 9 (Contd.)

Riverbasins with over 100,000 ha of Irrigated Area

Basin	Croplands	Irrigated Area '000 Sq.km	Population % of basin area	Irrigated Croplands % of croplands	Density persons/sq.km	Area <sup>b</sup> '000 ha
Sacramento	USA	79	6	85	32	402
Mahakam	Indonesia	98	18	22	18	389
Tigris	Turkey, Iran, Iraq, Syria	766	25	2	58	383
Niger	Mali, Niger, Nigeria, Burkina Paso, Algeria, Guinea	2,262	5	3	31	339
Brazos	USA	137	24	9	20	296
Balsas	Mexico	117	4	42	85	197
Yalu Jiang	China, North Korea	48	41	8	117	159
Narmada	India	96	76	2	192	146
Po	Italy	77	48	3	215	111

Source: Adopted from Revenga, C. S. Murray, J. Abramovitz and A. Hammond. 1998. *Watersheds of the World: Ecological Value and Vulnerability* Washington D.C.: World Resources Institute and WorldWatch Institute.

<sup>b</sup> irrigated area = Basin Area x % cropped area x % cropped area irrigated.

## Part I: Table 10

### Number of Large Dams by Country <sup>a</sup>

Country	All Large Dams <sup>b</sup>	Dams 30-59 m	Dams > 60 m
<u>Asia and Oceania</u>			
Australia	486	144	50
China <sup>c</sup>	1855	1495	337
India <sup>c</sup>	4010	347	78
Indonesia	96	32	15
Iran	66	10	40
Japan <sup>c</sup>	1077	685	345
Korea DPR	765	89	16
Lebanon	5	1	1
Malaysia	59	23	9
Nepal	3	0	1
New Zealand	86	29	12
Pakistan	71	11	7
Sri Lanka	46	8	3
Thailand	204	32	8
Turkey	625	255	115
Asia and Oceania Total	9454	3161	1037
<u>Africa</u>			
Algeria	107	25	16
Congo	14	4	2
Egypt	6	1	1
Ghana	5	1	1
Ivory Coast	22	5	0
Lesatho	7	2	1
Libya	12	8	2
Madagascar	10	0	0
Morocco	92	25	20
Nigeria	45	6	2
South Africa	539	143	14
Sudan	4	2	1
Syria	41	17	4
Tunisia	71	6	0
Zambia	4	2	2
Zimbabwe	213	37	5
Africa Total	1192	284	71

Source: Adopted from World Register of Dams. 1998. Paris: International Commission on Large Dams (ICOLD).

<sup>a</sup> Large dams are defined as dams with height of 15 m or more.

<sup>b</sup> Dams registered by ICOLD members only.

<sup>c</sup> Countries with more than 1,000 dams are required to register dams with height of 30 m or more.

(Contd.)



**Part I: Table 10 (Contd.)**

**Number of Large Dams by Country<sup>a</sup>**

Country	All Large Dams <sup>b</sup>	Dams 30-59 m	Dams > 60 m
<u>Europe</u>			
Austria	149	63	16
Albania	306	77	6
Belgium	15	6	3
Bosnia-Herz	25	9	7
Bulgaria	180	49	15
Croatia	29	7	2
Cyprus	52	22	3
Czeck Republic	118	36	7
Denmark	10	0	0
Finland	55	9	0
France	569	131	60
Germany	311	74	25
Greece	46	14	17
Hungary	15	0	0
Iceland	20	8	0
Italy	524	211	105
Ireland	16	4	0
Luxemberg	3	3	0
Macedonia	18	8	10
Netherlands	10	2	0
Norway	330	89	25
Poland	69	15	3
Portugal	103	41	23
Romania	246	54	31
Slovakia	50	13	3
Slovania	30	13	1
Spain <sup>c</sup>	1,187	319	181
Sweden	190	35	7
Switzerland	156	40	48
United Kingdom	517	104	10
Yugoslavia	69	28	14
Europe Total	5,418	1,484	622
<u>North America</u>			
Canada	793	131	46
Mexico	536	149	53
USA <sup>c</sup>	6,375	1,222	422
North America Total	7,704	1,502	521

(Contd.)

**Part I: Table 10 (Contd.)****Number of Large Dams by Country<sup>a</sup>**

	All Large Dams <sup>b</sup>	Dams 30-59 m	Dams > 60 m
<u>South America and the Caribbean</u>			
Argentina	101	49	21
Bolivia	6	4	0
Brazil	594	166	47
Cameroon	9	4	0
Chile	87	19	17
Colombia	49	17	18
Costa Rica	9	1	2
Dominican Rep	11	5	6
Guatemala	4	1	1
Honduras	8	1	3
Paraguay	4	3	1
Peru	43	7	5
Uruguay	6	2	2
Venezuela	74	32	14
S. A. and C Total	1,005	311	137
<u>Russian Federation</u>			
Russian Federation	91	41	19
World Total	24,864	6,783	2,407



**DATA Tables**

## **Part II**

**Sub-National Data for Selected Countries**



Part II: Table 1

People's Republic of China: Net Irrigated Area ('000 ha)

By Province

YEAR	CHINA	BEIJING	TIANJIN	HEBEI	SHANXI	MONGOLIA	LIAONING	JILIN	HEILONG	SHANGHAI
1975	43,284	325	341	2,252	1,043	-	738	547	419	-
1976	44,981	331	342	2,322	1,088	-	746	600	530	-
1977	44,999	337	347	2,326	1,135	-	847	609	570	-
1978	44,965	342	371	2,355	1,092	-	853	599	618	-
1979	45,003	341	-	2,353	1,121	-	-	571	-	-
1980	44,888	340	379	2,345	1,115	1,104	760	731	670	349
1981	44,574	341	379	2,372	1,107	1,038	718	745	698	347
1982	44,177	339	374	2,372	1,100	1,027	723	734	674	347
1983	44,651	343	365	2,332	1,101	1,020	676	716	631	346
1984	44,453	343	361	2,310	1,103	980	696	711	624	342
1985	44,036	338	349	2,293	1,079	965	724	696	680	335
1986	44,226	337	341	2,253	1,054	1,006	731	717	720	327
1987	44,403	338	341	2,211	1,078	1,038	769	753	766	327
1988	44,376	338	343	2,173	1,098	1,079	763	775	740	324
1989	44,917	338	342	2,197	1,114	1,153	760	836	777	320
1990	47,403	335	346	3,759	1,138	1,252	1,059	882	1,079	320
1991	47,822	324	347	3,839	1,149	1,323	1,089	923	1,118	319
1992	48,590	307	347	3,886	1,162	1,696	1,140	915	1,157	314
1993	48,728	315	348	3,931	1,175	1,751	1,170	909	1,164	299
1994	48,759	309	349	3,963	1,188	1,755	1,184	910	1,015	291
1995	49,281	323	355	4,040	1,202	1,776	1,204	904	1,095	288
1996	50,381	323	352	4,248	1,206	1,851	1,228	936	1,335	285

Source: China Statistical Yearbook 1999, National Bureau of Statistics, People's Republic of China.

Part II: Table 1 (Contd.)

People's Republic of China: Net Irrigated Area ('000 ha)

YEAR	By Province									
	JIANGSU	ZHEJIANG	ANHUI	FUJIAN	JIANGXI	SHANDONG	HENAN	HUBEI	HUNAN	GUANGDONG
1975	3,134	1,465	2,296	904	1,851	3,805	3,578	2,251	2,525	2,276
1976	3,650	1,484	2,410	921	1,884	4,039	-	2,322	2,504	2,221
1977	3,414	1,494	2,315	871	1,631	4,270	-	2,326	2,495	2,195
1978	3,270	1,505	2,398	863	1,641	4,415	3,723	2,355	2,436	2,140
1979	3,370	1,520	2,519	879	1,656	4,405	-	-	2,448	2,151
1980	3,413	1,525	2,438	881	1,670	4,408	3,536	2,345	2,416	2,103
1981	3,456	1,523	2,393	836	1,671	4,434	3,388	2,372	2,414	2,075
1982	3,476	1,525	2,314	813	1,589	4,482	3,265	2,372	2,371	2,048
1983	3,495	1,525	2,228	819	1,805	4,536	3,210	2,332	2,773	2,044
1984	3,596	1,529	2,161	804	1,812	4,555	3,279	2,310	2,776	1,980
1985	3,588	1,528	2,106	787	1,812	4,566	3,190	2,293	2,767	1,938
1986	3,538	1,497	2,092	914	1,814	4,547	3,213	2,253	2,772	1,913
1987	3,518	1,496	2,157	922	1,821	4,481	3,250	2,211	2,665	1,855
1988	3,497	1,484	2,215	924	1,817	4,323	3,359	2,173	2,667	1,815
1989	3,531	1,481	2,304	911	1,826	4,356	3,435	2,197	2,674	1,833
1990	3,971	1,477	2,633	934	1,837	4,464	3,550	2,324	2,676	1,938
1991	3,850	1,476	2,719	940	1,848	4,552	3,700	2,331	2,613	1,884
1992	3,857	1,464	2,769	944	1,855	4,597	3,780	2,356	2,665	1,785
1993	3,824	1,449	2,818	945	1,864	4,624	3,868	2,279	2,676	1,675
1994	3,799	1,428	2,878	938	1,817	4,642	3,931	2,239	2,679	1,639
1995	3,833	1,419	2,934	937	1,880	4,663	4,044	2,174	2,680	1,669
1996	3,838	1,413	2,971	935	1,889	4,693	4,191	2,385	2,667	1,664

(Contd.)

**Part II: Table 1 (Contd.)**

**People's Republic of China: Net Irrigated Area ('000 ha)**

**By Province**

YEAR	GUANGXI	SICHUAN	GUIZHOU	YUNNAN	TIBET	SHAANXI	GANSU	QINGHAI	NINGXIA	XINJIANG
1975	1,462	-	437	871	111	1,179	932	154	234	-
1976	1,518	2,525	445	884	116	1,170	824	156	239	-
1977	1,457	2,678	496	892	122	1,241	843	156	239	-
1978	1,471	2,869	502	902	151	1,213	849	153	242	-
1979	1,462	2,972	470	911	153	1,238	847	154	241	-
1980	1,433	3,029	457	913	148	1,248	854	160	232	2,611
1981	1,414	3,036	451	919	1,412	1,249	849	160	228	2,639
1982	1,406	3,044	438	924	137	1,247	847	159	232	2,610
1983	1,404	3,053	453	959	121	1,239	846	157	233	2,636
1984	1,383	2,972	415	962	112	1,179	847	159	236	2,643
1985	1,348	2,782	479	965	133	1,179	831	160	238	2,605
1986	1,350	2,730	532	967	122	1,245	826	164	246	2,708
1987	1,374	2,745	538	973	129	1,259	834	165	253	2,741
1988	1,338	2,762	545	989	120	1,238	839	163	256	2,765
1989	1,330	2,785	549	1,020	121	1,242	841	167	258	2,727
1990	1,490	2,806	550	1,054	126	1,263	854	172	260	2,858
1991	1,502	2,827	512	1,082	113	1,283	867	175	265	2,850
1992	1,514	2,843	617	1,105	82	1,303	885	175	270	2,803
1993	1,497	2,858	597	1,130	82	1,320	900	177	275	2,810
1994	1,489	2,874	607	1,181	162	1,326	914	177	277	2,799
1995	1,472	2,899	612	1,250	162	1,340	893	177	278	2,780
1996	1,471	2,925	619	1,284	148	1,287	939	176	281	2,841



Part II: Table 2

People's Republic of China: Cultivated Land Area ('000 ha)

By Province

YEAR	CHINA	BEIJING	TIANJIN	HEBEI	SHANXI	MONGOLIA	LIAONING	JILIN	HEILONG	SHANGHAI
1975	99,708	436	486	6,719	3,922	5,364	3,894	4,071	8,041	365
1976	99,388	434	482	6,694	3,917	5,284	3,873	4,064	8,129	362
1977	99,247	432	476	6,686	3,921	5,268	3,848	4,046	8,205	363
1978	99,389	429	469	6,675	3,923	5,332	3,821	4,051	8,458	360
1979	99,498	427	468	6,659	3,924	5,347	3,787	4,052	8,663	356
1980	99,305	426	464	6,648	3,921	5,252	3,760	4,044	8,726	354
1981	99,037	425	463	6,645	3,894	5,186	3,709	4,055	8,755	353
1982	98,607	424	461	6,641	3,880	5,109	3,667	4,049	8,720	352
1983	98,359	423	459	6,637	3,872	5,065	3,654	4,060	8,751	350
1984	97,854	422	454	6,629	3,853	5,006	3,625	4,039	8,909	346
1985	96,846	421	447	6,603	3,761	4,930	3,586	3,999	8,931	340
1986	96,230	419	441	6,592	3,732	4,895	3,529	3,973	8,869	300
1987	95,889	418	438	6,577	3,719	4,851	3,492	3,961	8,859	331
1988	95,722	416	433	6,567	3,707	4,871	3,479	3,951	8,834	327
1989	95,656	414	432	6,560	3,702	4,912	3,470	3,936	8,827	324
1990	95,673	413	431	6,556	3,693	4,966	3,467	3,939	8,831	323
1991	95,654	411	432	6,550	3,688	5,005	3,460	3,938	8,852	321
1992	95,426	409	430	6,544	3,681	5,082	3,452	3,932	8,905	318
1993	95,101	406	429	6,536	3,669	5,172	3,430	3,938	8,913	302
1994	94,907	402	427	6,524	3,657	5,310	3,411	3,955	8,909	294
1995	94,971	400	426	6,517	3,645	5,491	3,390	3,953	8,995	290
1996	95,467	396	426	6,499	3,624	5,924	3,384	3,959	9,175	287

Source: China Statistical Yearbook 1999, National Bureau of Statistics, People's Republic of China.

(Contd.)

Part II: Table 2 (Contd.)

People's Republic of China: Cultivated Land Area ('000 ha)

By Province

YEAR	JIANGSU	ZHEJIANG	ANHUI	FUJIAN	JIANGXI	SHANDONG	HENAN	HUBEI	HUNAN	GUANGDONG
1975	4,706	1,838	4,508	1,304	2,409	7,482	7,256	3,822	3,468	3,234
1976	4,689	1,839	4,494	1,303	2,407	7,395	7,216	3,797	3,461	3,238
1977	4,673	1,840	4,481	1,303	2,405	7,348	7,173	3,780	3,449	3,239
1978	4,661	1,838	4,469	1,297	2,400	7,296	7,157	3,768	3,445	3,232
1979	4,650	1,832	4,456	1,295	2,399	7,265	7,139	3,688	3,440	3,218
1980	4,641	1,823	4,446	1,291	2,394	7,241	7,128	3,739	3,358	3,197
1981	4,637	1,820	4,441	1,289	2,392	7,201	7,121	3,730	3,421	3,182
1982	4,631	1,818	4,437	1,284	2,387	7,202	7,109	3,718	3,417	3,159
1983	4,630	1,817	4,435	1,283	2,384	7,182	7,101	3,699	3,400	3,142
1984	4,621	1,806	4,429	1,280	2,379	7,162	7,079	3,644	3,371	3,105
1985	4,604	1,777	4,422	1,261	2,369	7,044	7,033	3,585	3,342	3,035
1986	4,591	1,754	4,414	1,250	2,364	6,964	6,999	3,545	3,331	2,994
1987	4,580	1,745	4,397	1,244	2,362	6,924	6,973	3,518	3,318	2,964
1988	4,569	1,736	4,382	1,241	2,359	6,896	6,956	3,498	3,326	2,942
1989	4,562	1,731	4,373	1,238	2,355	6,868	6,944	3,487	3,319	2,958
1990	4,558	1,723	4,366	1,236	2,350	6,853	6,933	3,477	3,312	2,964
1991	4,550	1,715	4,353	1,235	2,344	6,834	6,920	3,458	3,310	2,957
1992	4,522	1,691	4,334	1,229	2,337	6,798	6,887	3,422	3,296	2,879
1993	4,495	1,661	4,317	1,219	2,326	6,759	6,870	3,393	3,273	2,788
1994	4,464	1,635	4,303	1,210	2,315	6,718	6,830	3,376	3,258	2,753
1995	4,448	1,618	4,291	1,204	2,308	6,696	6,806	3,358	3,250	2,747
1996	4,435	1,614	4,280	1,196	2,302	6,679	6,786	3,349	3,239	2,734

Part II: Table 2 (Contd.)

People's Republic of China: Cultivated Land Area ('000 ha)

YEAR	By Province									
	GUANGXI	SICHUAN	GUIZHOU	YUNNAN	TIBET	SHAANXI	GANSU	QINGHAI	NINGXIA	XINJIANG
1975	2,595	6,750	1,906	2,675	226	3,906	3,575	589	914	3,147
1976	2,621	6,713	1,907	2,676	227	3,873	3,571	603	890	3,151
1977	2,625	6,686	1,908	2,695	228	3,865	3,569	604	887	3,162
1978	2,625	6,655	1,905	2,731	228	3,854	3,566	603	891	3,185
1979	2,628	6,625	1,899	2,781	230	3,839	3,555	579	898	3,200
1980	2,637	6,604	1,904	2,838	229	3,816	3,554	587	896	3,182
1981	2,635	6,579	1,903	2,847	225	3,789	3,542	584	880	3,173
1982	2,631	6,563	1,903	2,844	227	3,775	3,565	582	863	3,188
1983	2,620	6,541	1,899	2,833	229	3,758	3,562	576	840	3,161
1984	2,574	6,452	1,893	2,802	225	3,686	3,528	572	810	3,153
1985	2,572	6,367	1,873	2,777	224	3,627	3,491	565	795	3,083
1986	2,564	6,341	1,863	2,776	222	3,590	3,480	563	791	3,049
1987	2,565	6,326	1,857	2,791	222	3,563	3,479	565	791	3,061
1988	2,569	6,315	1,855	2,803	222	3,551	3,476	568	796	3,076
1989	2,578	6,307	1,854	2,823	222	3,541	3,477	572	795	3,073
1990	2,596	6,299	1,854	2,845	223	3,533	3,476	578	796	3,087
1991	2,613	6,281	1,853	2,858	223	3,521	3,479	579	798	3,116
1992	2,611	6,256	1,849	2,858	224	3,488	3,482	580	801	3,134
1993	2,607	6,232	1,845	2,855	224	3,458	3,481	581	803	3,120
1994	2,602	6,214	1,841	2,857	222	3,421	3,481	585	806	3,124
1995	2,614	6,190	1,840	2,871	222	3,393	3,483	590	807	3,128
1996	2,632	6,165	1,839	2,889	228	3,359	3,486	590	814	3,176

Part II: Table 3

INDIA: Net Irrigated Area ('000 ha)

By State, by Source

Year	State				Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity	
	Canals	Tanks	Wells	Other				
		Andhra Pradesh						
1961	1,331	1,151	328	99	2,909	3,518	1.21	
1962	1,265	1,258	402	104	3,029	3,810	1.26	
1963	1,284	1,331	433	134	3,182	3,786	1.19	
1964	1,312	1,227	397	162	3,098	3,664	1.18	
1965	1,275	1,341	404	138	3,158	3,850	1.22	
1966	1,226	1,189	455	108	2,978	3,533	1.19	
1967	768	1,258	462	102	3,070	3,825	1.25	
1968	1,306	1,220	457	106	3,089	3,972	1.29	
1969	1,395	773	467	82	2,717	3,616	1.33	
1970	1,488	1,071	502	128	3,189	4,153	1.30	
1971	1,579	1,112	509	113	3,313	4,223	1.27	
1972	1,521	813	568	96	2,998	3,786	1.26	
1973	1,424	807	627	97	2,955	3,573	1.21	
1974	1,492	1,072	645	117	3,326	4,154	1.25	
1975	1,590	950	695	111	3,346	4,423	1.32	
1976	1,627	1,100	584	126	3,437	4,528	1.32	
1977	1,604	1,089	624	117	3,434	4,156	1.21	
1978	1,642	992	686	109	3,429	4,378	1.28	
1979	1,674	1,140	725	116	3,655	4,698	1.29	
1980	-	-	-	-	-	-	-	
1981	1,693	900	776	93	3,462	4,342	1.25	
1982	1,756	1,045	786	105	3,692	4,678	1.27	
1983	1,743	852	839	93	3,527	4,518	1.28	
1984	1,839	1,087	838	114	3,878	5,058	1.30	
1985	1,794	774	837	117	3,522	4,470	1.27	
1986	1,783	786	856	113	3,538	4,337	1.23	
1987	1,780	777	883	110	3,550	4,360	1.23	
1988	1,593	663	991	122	3,369	4,298	1.28	
1989	1,871	1,104	1,133	150	4,258	5,440	1.28	
1990	1,889	1,025	1,209	162	4,285	5,454	1.27	
1991	1,869	968	1,303	165	4,305	5,369	1.25	
1992	1,828	948	1,404	174	4,354	5,378	1.24	
1993	1,727	729	1,411	162	4,029	5,085	1.26	
1994	1,659	633	1,442	156	3,890	5,020	1.29	
1995	1,606	692	1,478	183	3,959	5,185	1.31	
1996	1,539	747	1,656	381	4,323	4,673	1.08	

Sources: Directorate of Economics and Statistics, Ministry of Agriculture, New Delhi and various issues of "Fertilizer Statistics" of the Fertilizer Association of India.

(Contd.)

Part II: Table 3 (Contd.)

INDIA: Net Irrigated Area ('000 ha)

By State, by Source

Year	State		Assam		Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Canals	Tanks	Wells	Other			
1961	364	0	-	257	620	629	1.01
1962	364	-	-	257	620	629	1.01
1963	364	-	-	248	612	612	1.00
1964	364	1	-	248	613	611	1.00
1965	364	-	-	248	612	612	1.00
1966	364	-	-	248	612	612	1.00
1967	364	-	-	248	612	612	1.00
1968	364	-	-	248	612	612	1.00
1969	364	-	-	248	612	610	1.00
1970	362	-	-	210	572	572	1.00
1971	362	-	-	210	572	572	1.00
1972	362	-	-	210	572	572	1.00
1973	362	-	-	210	572	572	1.00
1974	362	-	-	210	572	572	1.00
1975	362	-	-	210	572	572	1.00
1976	362	-	-	210	572	572	1.00
1977	362	-	-	210	572	572	1.00
1978	362	-	-	210	572	572	1.00
1979	362	-	-	210	572	572	1.00
1980	-	-	-	-	-	-	-
1981	362	-	-	210	57	572	1.00
1982	362	-	-	210	572	572	1.00
1983	362	-	-	210	572	572	1.00
1984	362	-	-	210	572	572	1.00
1985	362	-	-	210	572	572	1.00
1986	362	-	-	210	572	572	1.00
1987	362	-	-	210	572	532	0.93
1988	362	-	-	210	572	572	1.00
1989	362	-	-	210	572	572	1.00
1990	362	-	-	210	572	572	1.00
1991	362	-	-	210	572	572	1.00
1992	362	-	-	210	572	572	1.00
1993	362	-	-	210	572	572	1.00
1994	362	-	-	210	572	572	1.00
1995	362	-	-	210	572	572	1.00
1996	362	-	-	36	398	572	1.44

(Contd.)

**Part II: Table 3 (Contd.)**

**INDIA: Net Irrigated Area ('000 ha)**

**By State, by Source**

State	Bihar				Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Year	Canals	Tanks	Wells			
1961	651	323	261	826	2,062	2,089	1.01
1962	561	224	327	831	1,943	2,215	1.14
1963	598	289	310	788	1,985	2,204	1.11
1964	644	257	314	784	1,999	2,226	1.11
1965	596	200	312	872	1,980	2,208	1.12
1966	632	175	289	895	1,991	2,251	1.13
1967	652	138	384	445	1,619	2,010	1.24
1968	728	180	408	695	2,011	2,461	1.22
1969	792	187	459	736	2,174	2,697	1.24
1970	815	187	490	787	2,279	2,741	1.20
1971	814	169	551	626	2,160	2,732	1.26
1972	874	144	582	784	2,384	2,788	1.17
1973	922	111	673	572	2,278	2,688	1.18
1974	898	82	717	623	2,320	2,797	1.21
1975	887	106	858	672	2,523	3,055	1.21
1976	896	118	1071	675	2,760	3,363	1.22
1977	952	126	1183	618	2,879	3,604	1.25
1978	996	132	1102	683	2,913	3,780	1.30
1979	1,074	113	1017	756	2,960	3,707	1.25
1980	-	-	-	-	-	-	-
1981	1,094	96	996	767	2,953	3,632	1.23
1982	1,170	100	996	735	3,001	3,582	1.19
1983	914	94	855	456	2,319	3,350	1.44
1984	1,009	98	956	454	2,517	3,570	1.42
1985	1,005	131	1072	587	2,795	3,784	1.35
1986	973	121	1046	668	2,808	3,819	1.36
1987	1,106	116	1066	669	2,957	3,831	1.30
1988	1,125	93	1175	801	3,194	4,054	1.27
1989	1,262	101	1443	718	3,524	4,242	1.20
1990	1,061	87	1366	610	3,124	4,122	1.32
1991	1,090	115	1519	623	3,347	4,192	1.25
1992	1,223	102	1461	568	3,354	4,157	1.24
1993	934	128	1701	581	3,344	4,040	1.21
1994	1,004	157	1718	574	3,453	4,212	1.22
1995	984	136	1762	653	3,535	4,403	1.25
1996	1,099	140	1824	210	3,273	4,581	1.40

(Contd.)

Part II: Table 3 (Contd.)

INDIA: Net Irrigated Area ('000 ha)

By State, by Source

State	Gujarat				Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Year	Canals	Tanks	Wells			
1961	66	13	568	36	683	743	1.09
1962	66	13	568	36	683	743	1.09
1963	105	18	591	36	750	789	1.05
1964	98	18	565	29	710	741	1.04
1965	98	18	565	29	710	741	1.04
1966	111	22	668	36	837	873	1.04
1967	140	30	861	10	1,041	1,072	1.03
1968	199	34	866	9	1,108	1,166	1.05
1969	199	34	866	9	1,108	1,244	1.12
1970	196	28	917	9	1,150	1,241	1.08
1971	207	30	962	10	1,209	1,307	1.08
1972	207	30	962	10	1,209	1,307	1.08
1973	249	36	1,156	12	1,453	1,549	1.07
1974	249	36	1,156	12	1,453	1,549	1.07
1975	197	37	1,118	19	1,371	1,488	1.09
1976	245	25	1,129	15	1,414	1,535	1.09
1977	207	18	996	12	1,233	1,373	1.11
1978	314	33	1,262	8	1,617	1,814	1.12
1979	327	33	1,346	9	1,715	1,936	1.13
1980	-	-	-	-	-	-	-
1981	367	41	1,589	6	2,003	2,334	1.17
1982	421	40	1,688	5	2,154	2,522	1.17
1983	421	40	1,689	5	2,155	2,522	1.17
1984	430	41	1,764	5	2,240	2,614	1.17
1985	430	41	1,764	5	2,240	2,614	1.17
1986	489	41	1,737	4	2,271	2,797	1.23
1987	434	28	1,857	5	2,324	2,271	0.98
1988	359	25	1,653	2	2,039	2,381	1.17
1989	359	25	1,653	2	2,039	2,381	1.17
1990	300	21	1,435	2	1,758	2,100	1.19
1991	472	29	1,989	3	2,493	2,904	1.16
1992	471	26	1,868	7	2,372	2,880	1.21
1993	557	26	2,056	3	2,642	3,227	1.22
1994	530	30	1,971	9	2,540	3,087	1.22
1995	593	35	2,366	8	3,002	3,655	1.22
1996	593	35	2,366	8	3,002	3,655	1.22

(Contd.)

**Part II: Table 3 (Contd.)**

**INDIA: Net Irrigated Area ('000 ha)**

**By state, by source**

Year	State		Haryana		Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Canals	Tanks	Wells	Other			
1961	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-
1967	931	4	289	9	1,233	1,736	1.41
1968	889	3	227	13	1,132	1,780	1.57
1969	907	2	385	18	1,312	1,864	1.42
1970	950	17	437	4	1,408	2,158	1.53
1971	951	1	575	5	1,532	2,230	1.46
1972	965	1	594	5	1,565	2,284	1.46
1973	953	5	671	3	1,632	2,478	1.52
1974	1,012	-	719	5	1,736	2,584	1.49
1975	1,031	-	743	4	1,778	2,596	1.46
1976	1,036	1	713	4	1,754	2,742	1.56
1977	1,056	-	734	8	1,798	2,698	1.50
1978	1,096	1	771	6	1,874	2,776	1.48
1979	1,117	1	795	4	1,917	2,979	1.55
1980	-	-	-	-	-	-	-
1981	1,161	-	967	6	2,134	3,309	1.55
1982	1,183	-	1,055	10	2,248	3,455	1.54
1983	1,261	-	1,090	5	2,356	3,559	1.51
1984	1,185	1	1,000	4	2,190	3,594	1.64
1985	1,203	1	981	4	2,189	3,504	1.60
1986	1,181	1	1,047	7	2,236	3,678	1.64
1987	1,203	1	1,140	4	2,348	3,912	1.67
1988	1,220	1	1,355	3	2,579	3,883	1.51
1989	1,238	1	1,286	7	2,532	4,074	1.61
1990	1,359	2	1,294	2	2,657	4,253	1.60
1991	1,337	1	1,247	14	2,599	4,237	1.63
1992	1,381	1	1,255	29	2,666	4,339	1.63
1993	1,359	1	1,239	29	2,628	4,472	1.70
1994	1,353	1	1,283	26	2,663	4,515	1.70
1995	1,382	1	1,304	32	2,719	4,592	1.69
1996	1,375	1	1,353	219	2,948	4,673	1.59

(Contd.)



Part II: Table 3 (Contd.)

INDIA: Net Irrigated Area ('000 ha)

By State, by Source

Year	Himachal Pradesh				Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	State Canals	Tanks	Wells	Other			
1961	-	-	-	-	-	68	-
1962	-	-	-	-	-	-	-
1963	-	-	-	40	40	68	1.70
1964	-	-	-	40	40	69	1.73
1965	-	-	-	40	40	150	3.75
1966	-	-	-	39	39	67	1.72
1967	-	-	-	39	39	150	3.85
1968	-	-	1	89	90	152	1.69
1969	-	-	1	89	90	153	1.70
1970	-	-	3	91	94	156	1.66
1971	-	-	1	90	91	156	1.71
1972	1	-	2	88	91	159	1.75
1973	1	-	2	92	95	165	1.74
1974	-	-	2	92	94	156	1.66
1975	1	-	3	87	91	151	1.66
1976	-	-	3	87	90	153	1.70
1977	-	-	3	87	90	155	1.72
1978	-	-	2	88	90	155	1.72
1979	-	-	2	87	89	156	1.75
1980	-	-	-	-	-	-	-
1981	2	-	2	88	92	156	1.70
1982	1	1	4	86	92	161	1.75
1983	2	1	6	84	93	159	1.71
1984	3	1	4	86	94	165	1.76
1985	7	1	3	84	95	169	1.78
1986	7	-	4	85	96	169	1.76
1987	6	1	4	84	95	171	1.80
1988	7	-	7	84	98	173	1.77
1989	-	-	11	88	99	171	1.73
1990	24	1	4	70	99	176	1.78
1991	23	1	4	71	99	167	1.69
1992	-	1	4	95	100	175	1.75
1993	9	1	6	83	99	174	1.76
1994	4	1	6	89	100	171	1.71
1995	4	1	6	89	100	171	1.71
1996	4	1	12	32	49	178	3.63

(Contd.)

**Part II: Table 3 (Contd.)**

**INDIA: Net Irrigated Area ('000 ha)**

**By State, by Source**

Year	State				Total Net Irrigated Area	Annual		Irrigation Intensity
	Canals	Tanks	Wells	Other		Total Gross Irrigated Area		
			Jammu and Kashmir					
1961	256	-	5	13	274	312	1.14	
1962	256	-	5	13	274	312	1.14	
1963	264	-	1	7	272	294	1.08	
1964	264	-	1	7	272	294	1.08	
1965	264	-	1	7	272	313	1.15	
1966	279	1	2	6	288	313	1.09	
1967	270	-	1	7	278	301	1.08	
1968	270	-	1	7	278	316	1.14	
1969	275	-	2	7	284	323	1.14	
1970	272	-	1	6	279	338	1.21	
1971	272	-	1	6	279	330	1.18	
1972	252	-	1	11	264	330	1.25	
1973	277	1	2	8	288	339	1.18	
1974	290	1	2	9	302	362	1.20	
1975	279	-	3	13	295	355	1.20	
1976	288	-	3	11	302	371	1.23	
1977	293	-	3	10	306	380	1.24	
1978	290	-	3	12	305	397	1.30	
1979	289	-	3	12	304	405	1.33	
1980	-	-	-	-	-	-	-	
1981	285	2	4	13	304	392	1.29	
1982	291	3	3	12	309	396	1.28	
1983	301	3	3	11	318	405	1.27	
1984	304	3	3	11	321	418	1.30	
1985	288	3	4	14	309	417	1.35	
1986	289	3	4	14	310	423	1.36	
1987	288	3	4	12	307	404	1.32	
1988	288	3	4	12	307	404	1.32	
1989	289	3	3	15	310	432	1.39	
1990	285	3	3	15	306	434	1.42	
1991	279	2	1	16	298	436	1.46	
1992	289	2	2	20	313	445	1.42	
1993	288	2	2	19	311	437	1.41	
1994	289	2	2	19	312	444	1.42	
1995	284	2	2	17	305	430	1.41	
1996	364	2	2	84	452	440	0.97	

(Contd.)

Part II: Table 3 (Contd.)

INDIA: Net Irrigated Area ('000 ha)

By State, by Source

Year	State				Total Net Irrigated Area	Total Gross Irrigated Area	Irrigation Intensity
	Canals	Tanks	Wells	Other			
1961	236	344	133	148	860	989	1.15
1962	264	360	150	146	920	1,034	1.12
1963	269	371	155	146	941	994	1.06
1964	279	376	162	128	945	1,006	1.06
1965	279	377	176	128	960	1,006	1.05
1966	361	325	163	128	977	1,032	1.06
1967	376	320	178	148	1,022	1,187	1.16
1968	424	339	187	132	1,082	1,376	1.27
1969	448	351	317	118	1,234	1,376	1.12
1970	398	373	260	113	1,144	1,305	1.14
1971	421	365	259	92	1,137	1,355	1.19
1972	459	374	439	106	1,378	1,598	1.16
1973	435	362	247	103	1,147	1,325	1.16
1974	453	366	274	108	1,201	1,422	1.18
1975	482	369	300	116	1,267	1,490	1.18
1976	488	410	336	131	1,365	1,707	1.25
1977	512	256	327	120	1,215	1,467	1.21
1978	562	348	357	121	1,388	1,699	1.22
1979	571	348	357	133	1,409	1,718	1.22
1980	-	-	-	-	-	-	-
1981	546	304	365	146	1,361	1,676	1.23
1982	580	322	402	167	1,471	1,805	1.23
1983	605	293	418	170	1,486	1,792	1.21
1984	661	317	436	176	1,590	1,945	1.22
1985	705	326	462	200	1,693	2,101	1.24
1986	735	242	481	217	1,675	2,012	1.20
1987	799	259	524	234	1,816	2,247	1.24
1988	765	258	576	254	1,853	2,296	1.24
1989	846	324	648	274	2,092	2,606	1.25
1990	841	281	673	299	2,094	2,580	1.23
1991	862	240	713	298	2,113	2,598	1.23
1992	917	297	790	304	2,308	2,833	1.23
1993	903	257	725	309	2,194	2,802	1.28
1994	934	273	778	342	2,327	2,971	1.28
1995	927	249	813	336	2,325	2,923	1.26
1996	950	230	800	181	2,161	2,845	1.32

(Contd.)

**Part II: Table 3 (Contd.)**

**INDIA: Net Irrigated Area ('000 ha)**

**By State, by Source**

Year	State		Kerala		Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Canals	Tanks	Wells	Other			
1961	182	32	14	127	356	520	1.46
1962	182	32	14	127	356	520	1.46
1963	153	50	2	131	336	376	1.12
1964	162	51	2	132	347	489	1.41
1965	170	56	4	122	352	494	1.40
1966	177	60	4	121	362	509	1.41
1967	189	72	5	127	393	527	1.34
1968	193	71	6	141	411	572	1.39
1969	199	71	6	142	418	583	1.39
1970	204	72	5	142	423	589	1.39
1971	211	73	5	142	431	601	1.39
1972	217	74	6	142	439	612	1.39
1973	224	75	5	142	446	623	1.40
1974	232	76	5	144	457	638	1.40
1975	238	76	6	145	465	652	1.40
1976	86	58	54	30	228	327	1.43
1977	93	51	47	30	221	373	1.69
1978	101	54	42	31	228	354	1.55
1979	101	54	42	31	228	354	1.55
1980	-	-	-	-	-	-	-
1981	100	56	-	77	233	381	1.64
1982	106	57	-	77	240	383	1.60
1983	109	62	-	88	259	389	1.50
1984	104	36	31	95	266	396	1.49
1985	98	38	34	101	271	423	1.56
1986	100	44	38	114	296	399	1.35
1987	102	44	45	108	299	426	1.42
1988	107	45	50	104	306	393	1.28
1989	108	45	57	107	317	406	1.28
1990	107	47	64	112	330	397	1.20
1991	108	49	65	111	333	383	1.15
1992	106	48	65	114	333	387	1.16
1993	107	48	66	114	335	376	1.12
1994	107	49	66	102	324	413	1.27
1995	112	53	76	117	358	506	1.41
1996	107	49	73	322	551	466	0.85

(Contd.)

Part II: Table 3 (Contd.)

INDIA: Net Irrigated Area ('000 ha)

By State, by Source

Year	State	Madya Pradesh			Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Canals	Tanks	Wells	Other			
1961	440	122	325	36	924	951	1.03
1962	456	125	328	34	944	972	1.03
1963	463	174	342	42	1,021	1,036	1.01
1964	495	140	361	38	1,034	1,055	1.02
1965	544	127	364	42	1,077	1,099	1.02
1966	462	118	345	52	977	1,000	1.02
1967	470	195	371	53	1,089	1,113	1.02
1968	559	129	411	44	1,143	1,162	1.02
1969	625	177	449	58	1,309	1,368	1.05
1970	669	175	518	69	1,431	1,461	1.02
1971	710	130	562	78	1,480	1,523	1.03
1972	766	154	620	103	1,643	1,705	1.04
1973	779	146	644	130	1,699	1,762	1.04
1974	713	119	676	137	1,645	1,733	1.05
1975	679	153	670	133	1,635	1,781	1.09
1976	801	132	726	145	1,804	1,896	1.05
1977	874	179	775	154	1,982	2,050	1.03
1978	972	144	857	180	2,153	2,238	1.04
1979	1,065	140	945	180	2,330	2,413	1.04
1980	-	-	-	-	-	-	-
1981	1,034	136	987	175	2,332	2,453	1.05
1982	1,084	135	1,000	202	2,421	2,510	1.04
1983	1,161	186	1,123	186	2,656	2,744	1.03
1984	1,212	149	1,192	219	2,772	2,867	1.03
1985	1,267	205	1,284	254	3,010	3,105	1.03
1986	1,296	145	1,297	249	2,987	3,088	1.03
1987	4,394	198	1,429	324	6,345	3,456	0.54
1988	1,368	152	1,476	335	3,331	3,437	1.03
1989	1,437	155	1,672	403	3,667	3,785	1.03
1990	1,401	147	1,678	105	3,331	3,739	1.12
1991	1,536	157	2,147	474	4,314	4,431	1.03
1992	1,664	180	2,235	547	4,626	4,757	1.03
1993	1,686	177	2,322	590	4,775	4,918	1.03
1994	1,768	173	2,729	676	5,346	5,529	1.03
1995	1,825	174	3,075	748	5,822	6,071	1.04
1996	1,796	205	3,168	759	5,928	6,178	1.04

(Contd.)

**Part II: Table 3 (Contd.)**

**INDIA: Net Irrigated Area ('000 ha)**

**By State, by Source**

Year	State				Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Canals	Tanks	Wells	Other			
1961	243	193	595	41	1,072	1,236	1.15
1962	242	187	611	42	1,081	1,250	1.16
1963	255	199	632	40	1,126	1,278	1.13
1964	250	207	652	42	1,151	1,314	1.14
1965	250	207	651	42	1,150	1,314	1.14
1966	248	213	683	86	1,230	1,414	1.15
1967	249	190	711	56	1,206	1,388	1.15
1968	326	221	870	59	1,476	1,481	1.00
1969	276	224	797	78	1,375	1,557	1.13
1970	312	225	821	73	1,431	1,623	1.13
1971	312	225	821	69	1,427	1,656	1.16
1972	288	205	765	86	1,344	1,566	1.17
1973	258	196	713	109	1,276	1,468	1.15
1974	299	222	840	111	1,472	1,764	1.20
1975	339	232	936	105	1,612	1,933	1.20
1976	379	260	1046	117	1,802	2,171	1.20
1977	386	264	1064	119	1,833	2,220	1.21
1978	399	273	1101	123	1,896	2,306	1.22
1979	399	273	1101	123	1,896	2,306	1.22
1980	-	-	-	-	-	-	-
1981	417	285	1097	128	1,927	2,516	1.31
1982	417	285	1097	128	1,927	2,686	1.39
1983	417	285	1097	128	1,927	2,686	1.39
1984	413	283	1141	127	1,964	2,686	1.37
1985	413	283	1141	1127	2,964	2,686	0.91
1986	410	281	1063	127	1,881	2,462	1.31
1987	410	281	1063	127	1,881	2,462	1.31
1988	410	281	1063	127	1,881	2,381	1.27
1989	410	281	1063	127	1,881	2,381	1.27
1990	405	277	1021	126	1,829	2,381	1.30
1991	453	310	1132	141	2,036	2,489	1.22
1992	467	339	1177	154	2,137	2,814	1.32
1993	562	385	1348	175	2,470	3,235	1.31
1994	472	324	1737	147	2,680	3,262	1.22
1995	499	342	1571	155	2,567	3,149	1.23
1996	538	369	1571	89	2,567	3,149	1.23

(Contd.)

**Part II: Table 3 (Contd.)**

**INDIA: Net Irrigated Area ('000 ha)**

**By State, by Source**

Year	State		Orissa		Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Canals	Tanks	Wells	Other			
1961	394	417	24	206	1,040	1,156	1.11
1962	394	417	24	206	1,040	1,231	1.18
1963	225	495	38	219	977	1,141	1.17
1964	225	495	38	219	977	1,141	1.17
1965	225	495	38	219	977	1,141	1.17
1966	225	495	38	219	977	1,141	1.17
1967	225	495	38	219	977	1,141	1.17
1968	225	495	38	219	977	1,007	1.03
1969	169	374	29	166	738	1,323	1.79
1970	235	521	40	231	1,027	1,423	1.39
1971	263	583	45	258	1,149	1,624	1.41
1972	263	583	45	258	1,149	1,624	1.41
1973	583	193	141	-	917	1,260	1.37
1974	558	185	135	-	878	1,188	1.35
1975	606	230	91	-	927	1,276	1.38
1976	655	223	127	-	1,005	1,481	1.47
1977	674	271	104	-	1,049	1,383	1.32
1978	692	279	100	-	1,071	1,449	1.35
1979	761	240	147	-	1,148	1,586	1.38
1980	-	-	-	-	-	-	-
1981	801	207	207	-	1,215	1,711	1.41
1982	801	207	207	-	1,215	2,006	1.65
1983	801	207	207	-	1,215	2,006	1.65
1984	1187	314	344	-	1,845	2,006	1.09
1985	866	257	343	-	1,466	2,030	1.38
1986	863	234	586	-	1,683	2,159	1.28
1987	853	234	586	-	1,673	2,088	1.25
1988	853	234	586	-	1,673	2,062	1.23
1989	863	286	681	-	1,830	2,350	1.28
1990	863	286	681	-	1,830	2,350	1.28
1991	904	289	741	-	1,934	2,314	1.20
1992	904	289	741	-	1,934	2,529	1.31
1993	938	298	834	-	2,070	2,471	1.19
1994	949	305	836	0	2,090	2,510	1.20
1995	949	305	836	0	2,090	2,510	1.20
1996	949	305	836	617	2,707	2,629	0.97

(Contd.)

**Part II: Table 3 (Contd.)**

**INDIA: Net Irrigated Area ('000 ha)**

**By State, by Source**

Year	State	Punjab			Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Canals	Tanks	Wells	Other			
1961	2051	3	996	44	3,095	3,936	1.27
1962	2196	6	979	29	3,210	4,051	1.26
1963	2213	7	1,023	24	3,267	4,235	1.30
1964	2247	9	807	95	3,158	4,331	1.37
1965	2276	6	1,057	46	3,385	3,037	0.90
1966	2294	8	1,169	80	3,551	4,676	1.32
1967	1273	3	981	19	2,276	3,350	1.47
1968	1293	-	1,033	7	2,333	3,464	1.48
1969	1294	-	1,352	6	2,652	3,823	1.44
1970	1306	-	1,524	6	2,836	4,080	1.44
1971	1292	-	1,591	5	2,888	4,243	1.47
1972	1369	-	1,554	32	2,955	4,377	1.48
1973	1382	-	1,651	8	3,041	4,551	1.50
1974	1289	-	1,680	7	2,976	4,619	1.55
1975	1410	-	1,766	7	3,183	4,770	1.50
1976	1383	-	1,731	7	3,121	4,619	1.48
1977	1386	1	1,802	5	3,194	5,080	1.59
1978	1394	-	1,859	33	3,286	5,195	1.58
1979	1394	-	1,843	25	3,262	5,506	1.69
1980	-	-	-	-	-	-	-
1981	1430	-	1,939	13	3,382	5,781	1.71
1982	1322	-	2,074	12	3,408	5,966	1.75
1983	1462	-	2,080	8	3,550	6,148	1.73
1984	1478	-	2,122	9	3,609	6,273	1.74
1985	1399	-	2,212	10	3,621	6,347	1.75
1986	1412	-	2,274	4	3,690	6,517	1.77
1987	1440	-	2,273	4	3,717	6,593	1.77
1988	1414	-	2,307	53	3,774	6,723	1.78
1989	1458	-	2,310	9	3,777	6,839	1.81
1990	1467	-	2,436	16	3,919	6,920	1.77
1991	1527	-	2,233	150	3,910	7,057	1.80
1992	1422	-	2,420	98	3,940	7,113	1.81
1993	1365	-	2,398	98	3,861	7,144	1.85
1994	1537	0	2,299	91	3,927	7,238	1.84
1995	1534	0	2,331	79	3,944	7,319	1.86
1996	1356	0	2,357	18	3,731	7,377	1.98

( Contd.)



**Part II: Table 3 (Contd.)**

**INDIA: Net Irrigated Area ('000 ha)**

**By State, by Source**

Year	State		Rajasthan		Other	Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Canals	Tanks	Wells					
1961	535	166	1,015	37	1,752	1,774	1.01	
1962	581	214	977	37	1,810	1,847	1.02	
1963	643	121	1,066	29	1,859	1,859	1.00	
1964	610	120	1,043	23	1,796	1,863	1.04	
1965	614	295	1,127	44	2,080	2,080	1.00	
1966	487	203	1,023	40	1,753	2,068	1.18	
1967	642	214	1,241	24	2,121	2,121	1.00	
1968	606	252	998	9	1,865	2,141	1.15	
1969	701	219	1,188	11	2,119	2,545	1.20	
1970	753	198	1,087	21	2,059	2,419	1.17	
1971	756	270	1,083	23	2,132	2,453	1.15	
1972	811	179	1,151	32	2,173	2,440	1.12	
1973	819	106	1,313	31	2,269	2,682	1.18	
1974	844	233	1,263	38	2,378	2,679	1.13	
1975	881	161	1,574	31	2,647	3,143	1.19	
1976	887	253	1,377	30	2,547	2,934	1.15	
1977	867	238	1,486	17	2,608	2,976	1.14	
1978	914	231	1,550	70	2,765	3,167	1.15	
1979	950	192	1,730	70	2,942	3,451	1.17	
1980	-	-	-	-	-	-	-	
1981	941	112	1,874	56	2,983	3,749	1.26	
1982	946	85	2,027	45	3,103	3,722	1.20	
1983	1,025	143	1,997	53	3,218	4,088	1.27	
1984	1,119	214	1,606	37	2,976	4,014	1.35	
1985	1,058	124	1,986	36	3,204	3,830	1.20	
1986	1,154	84	1,851	20	3,109	3,863	1.24	
1987	1,205	124	2,054	38	3,421	4,315	1.26	
1988	1,090	75	2,118	44	3,327	3,995	1.20	
1989	1,224	120	2,089	48	3,481	4,365	1.25	
1990	1,229	109	2,243	54	3,635	4,461	1.23	
1991	1,354	184	2,341	25	3,904	4,652	1.19	
1992	1,450	183	2,702	54	4,389	5,264	1.20	
1993	1,428	207	2,804	32	4,471	5,486	1.23	
1994	1,373	170	3,009	45	4,597	5,595	1.22	
1995	1,427	247	3,134	50	4,858	5,815	1.20	
1996	1,497	189	3,500	46	5,232	6,361	1.22	

(Contd.)

**Part II: Table 3 (Contd.)**

**INDIA: Net Irrigated Area ('000 ha)**

**By State, by Source**

Year	State				Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Canals	Tanks	Wells	Other			
	Tamil Nadu						
1961	882	936	598	46	2,463	3,278	1.33
1962	893	939	569	61	2,463	3,207	1.30
1963	902	946	615	44	2,507	3,295	1.31
1964	874	915	597	41	2,427	3,268	1.35
1965	874	915	604	41	2,434	3,263	1.34
1966	799	903	659	38	2,399	3,178	1.32
1967	860	965	640	46	2,511	3,372	1.34
1968	893	990	697	48	2,628	3,476	1.32
1969	892	750	744	31	2,417	3,092	1.28
1970	906	879	691	31	2,507	3,272	1.31
1971	884	898	774	36	2,592	3,410	1.32
1972	931	924	820	35	2,710	3,350	1.24
1973	941	949	893	32	2,815	3,673	1.30
1974	924	929	931	32	2,816	3,674	1.30
1975	887	594	924	33	2,438	3,033	1.24
1976	911	750	869	35	2,565	3,376	1.32
1977	677	800	825	28	2,330	3,001	1.29
1978	926	910	1,858	42	3,736	3,722	1.00
1979	920	842	1,069	42	2,873	3,819	1.33
1980	-	-	-	-	-	-	-
1981	893	590	1,067	24	2,574	3,294	1.28
1982	901	738	1,045	25	2,709	3,425	1.26
1983	764	517	959	15	2,255	2,732	1.21
1984	864	807	926	20	2,617	3,249	1.24
1985	897	715	1,007	21	2,640	3,507	1.33
1986	774	672	1,030	25	2,501	3,240	1.30
1987	819	510	1,010	17	2,356	2,844	1.21
1988	721	610	1,092	15	2,438	2,945	1.21
1989	810	479	1,071	15	2,375	2,873	1.21
1990	790	523	1,169	15	2,497	3,044	1.22
1991	769	531	1,059	14	2,373	2,894	1.22
1992	843	577	1,168	17	2,605	3,257	1.25
1993	851	629	1,201	17	2,698	3,385	1.25
1994	814	668	1,300	17	2,799	3,544	1.27
1995	844	674	1,369	15	2,902	3,588	1.24
1996	771	512	1,327	113	2,723	3,183	1.17

(Contd.)

**Part II: Table 3 (Contd.)**

**INDIA: Net Irrigated Area ('000 ha)**

**By State, by Source**

Year	Uttar Pradesh				Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Canals	Tanks	Wells	Other			
1961	2,001	419	2,350	268	5,038	5,601	1.11
1962	1,904	394	2,316	245	4,860	5,368	1.10
1963	2,108	440	2,459	275	5,282	5,847	1.11
1964	2,176	441	2,080	277	4,974	5,972	1.20
1965	2,176	441	2,484	277	5,378	6,058	1.13
1966	2,300	391	2,905	279	5,875	6,617	1.13
1967	2,392	343	3,268	252	6,255	7,162	1.15
1968	2,069	323	3,022	243	5,657	6,352	1.12
1969	2,353	357	3,621	231	6,562	7,559	1.15
1970	2,423	360	3,792	244	6,819	7,929	1.16
1971	2,498	371	4,034	237	7,140	8,344	1.17
1972	2,498	334	3,866	232	6,930	8,090	1.17
1973	2,455	324	4,217	293	7,289	8,511	1.17
1974	2,439	322	4,189	291	7,241	7,241	1.00
1975	2,624	343	4,494	330	7,791	9,190	1.18
1976	2,743	338	4,503	349	7,933	9,231	1.16
1977	2,847	295	4,787	325	8,254	9,741	1.18
1978	2,962	276	4,942	313	8,493	10,009	1.18
1979	3,117	232	5,222	313	8,884	10,575	1.19
1980	-	-	-	-	-	-	-
1981	3,178	166	5,800	309	9,453	11,371	1.20
1982	3,203	186	5,881	271	9,541	11,620	1.22
1983	3,327	167	6,071	319	9,884	12,125	1.23
1984	3,330	152	6,081	316	9,879	12,148	1.23
1985	3,330	152	6,081	315	9,878	12,148	1.23
1986	3,330	152	6,081	316	9,879	12,148	1.23
1987	3,356	142	6,333	301	10,132	12,908	1.27
1988	3,029	101	6,591	322	10,043	13,920	1.39
1989	3,062	113	6,670	325	10,170	14,118	1.39
1990	3,177	126	6,713	316	10,332	14,375	1.39
1991	3,193	104	6,933	312	10,542	14,771	1.40
1992	3,193	104	6,933	312	10,542	14,771	1.40
1993	3,239	84	7,638	361	11,322	15,996	1.41
1994	3,196	98	7,803	465	11,562	16,384	1.42
1995	3,142	70	7,997	461	11,670	16,823	1.44
1996	3,075	58	8,161	134	11,428	16,972	1.49

(Contd.)

**Part II: Table 3 (Contd.)**

**INDIA: Net Irrigated Area ('000 ha)**

**By State, by Source**

Year	State				Total Net Irrigated Area	Total Gross Irrigated Area	Annual Irrigation Intensity
	Canals	Tanks	Wells	Other			
	West Bengal						
1961	778	368	16	189	1,351	1,385	1.03
1962	778	368	16	189	1,351	1,385	1.03
1963	778	368	16	189	1,351	1,368	1.01
1964	901	329	18	184	1,432	1,454	1.02
1965	901	329	16	184	1,430	1,454	1.02
1966	902	328	16	184	1,430	1,454	1.02
1967	941	334	16	187	1,478	1,499	1.01
1968	941	334	16	187	1,478	1,499	1.01
1969	941	334	16	187	1,478	1,499	1.01
1970	941	334	16	187	1,478	1,499	1.01
1971	960	303	17	209	1,489	1,541	1.03
1972	960	303	17	209	1,489	1,541	1.03
1973	960	303	17	209	1,489	1,541	1.03
1974	960	303	17	209	1,489	1,541	1.03
1975	960	303	17	209	1,489	1,541	1.03
1976	960	303	17	209	1,489	1,541	1.03
1977	960	303	17	209	1,489	1,541	1.03
1978	960	303	17	209	1,489	1,541	1.03
1979	960	303	17	209	1,489	1,541	1.03
1980	-	-	-	-	-	-	-
1981	960	303	17	209	1,489	1,541	1.03
1982	960	303	17	209	1,489	1,735	1.17
1983	680	261	618	275	1,834	1,834	1.00
1984	724	278	717	261	1,980	1,980	1.00
1985	724	278	717	261	1,980	1,980	1.00
1986	717	263	712	219	1,911	1,911	1.00
1987	717	263	712	219	1,911	1,911	1.00
1988	717	263	712	219	1,911	1,911	1.00
1989	717	263	712	219	1,911	1,911	1.00
1990	717	263	712	219	1,911	1,911	1.00
1991	717	263	712	219	1,911	1,911	1.00
1992	717	263	712	219	1,911	1,911	1.00
1993	717	263	712	219	1,911	1,911	1.00
1994	717	263	712	219	1,911	2,491	1.30
1995	717	263	712	219	1,911	2,491	1.30
1996	717	263	712	219	1,692	2,491	1.47

Part II: Table 4

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

Year	State :												
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	2,493	4	31	53	.	159	64	26	56	3	89	25	.
1962	.	.	.	.	.	.	.	.	.	.	.	.	.
1963	3,122	3	28	22	.	127	66	16	64	5	86	.	.
1964	3,017	3	27	23	.	132	54	10	69	6	119	.	.
1965	3,178	3	28	13	.	127	51	9	77	4	142	.	.
1966	2,870	3	30	23	.	127	54	2	89	4	131	.	.
1967	3,062	3	37	25	.	135	57	2	154	8	106	.	.
1968	3,154	4	42	30	.	131	55	6	164	10	120	.	.
1969	2,670	5	54	62	.	130	73	15	158	10	153	17	.
1970	3,283	7	52	32	.	123	63	3	172	9	154	18	.
1971	3,321	7	45	74	.	98	59	1	238	14	105	32	.
1972	2,859	10	58	34	.	119	56	2	222	34	117	35	.
1973	2,751	11	76	27	.	109	59	1	155	16	132	27	.
1974	3,205	12	53	21	.	104	71	1	231	23	175	31	.
1975	3,379	15	69	20	.	138	76	1	229	50	192	18	.
1976	3,679	14	56	17	.	129	67	1	158	13	168	22	.
1977	3,341	15	52	28	.	118	62	3	112	26	176	23	.
1978	3,454	15	51	25	.	121	60	1	179	38	192	28	.
1979	3,751	15	59	20	.	109	62	4	213	24	159	32	.
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	3,378	10	76	19	.	96	56	2	214	22	171	33	.
1982	3,610	12	68	19	.	87	61	2	266	28	218	34	.
1983	3,426	13	75	21	.	82	54	3	289	24	202	43	.
1984	3,924	13	75	18	.	84	54	2	336	38	168	43	.
1985	3,306	10	64	14	.	74	48	2	330	96	168	43	.
1986	3,249	9	50	18	.	66	35	3	282	85	163	39	.
1987	3,259	8	63	26	.	62	37	6	290	50	167	41	.
1988	3,068	6	59	20	.	72	32	2	407	51	175	37	.
1989	4,027	9	74	22	.	53	40	17	451	77	194	49	.
1990	4,003	8	81	26	.	51	33	15	396	88	208	49	.
1991	3,830	8	82	18	.	48	31	19	473	82	225	50	.
1992	3,736	6	93	17	.	41	30	21	510	93	232	54	.
1993	3,405	8	102	22	.	43	29	9	429	103	275	54	.
1994	3,369	9	16	23	.	82	38	11	295	428	100	44	.
1995	3,445	8	15	19	.	99	33	11	355	398	123	41	.
1996	3,500	8	15	20	.	114	32	20	340	373	158	45	.

Source: Directorate of Economics and Statistics, Ministry of Agriculture, New Delhi and various issues of "Fertilizer Statistics" of the Fertilizer Association of India. (Contd.)

**Part II: Table 4 (Contd.)**

**INDIA: Gross Irrigated Area ('000 ha)**

**By Crop, by State**

Year	State :												
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	588	.	.	.	.	.	.	7	.	.	.	.	.
1962	532	.	.	.	.	.	.	6	.	.	.	.	.
1963	571	.	.	.	.	.	.	6	.	.	.	.	.
1964	571	.	.	.	.	.	.	6	.	.	.	.	.
1965	571	.	.	.	.	.	.	6	.	.	.	.	.
1966	571	.	.	.	.	.	.	6	.	.	.	.	.
1967	571	.	.	.	.	.	.	6	.	.	.	.	.
1968	571	.	.	.	.	.	.	6	.	.	.	.	.
1969	571	.	.	.	.	.	.	6	.	.	.	.	.
1970	532	.	.	.	.	.	.	6	.	.	.	.	.
1971	532	.	.	.	.	.	.	6	.	.	.	.	.
1972	532	.	.	.	.	.	.	6	.	.	.	.	.
1973	532	.	.	.	.	.	.	6	.	.	.	.	.
1974	532	.	.	.	.	.	.	6	.	.	.	.	.
1975	532	.	.	.	.	.	.	6	.	.	.	.	.
1976	532	.	.	.	.	.	.	6	.	.	.	.	.
1977	532	.	.	.	.	.	.	6	.	.	.	.	.
1978	532	.	.	.	.	.	.	6	.	.	.	.	.
1979	532	.	.	.	.	.	.	6	.	.	.	.	.
1980	532	.	.	.	.	.	.	6	.	.	.	.	.
1981	532	.	.	.	.	.	.	6	.	.	.	.	.
1982	532	.	.	.	.	.	.	6	.	.	.	.	.
1983	533	.	.	.	.	.	.	6	.	.	.	.	.
1984	522	.	.	.	.	.	.	6	.	.	.	.	.
1985	532	.	.	.	.	.	.	6	.	.	.	.	.
1986	532	.	.	.	.	.	.	6	.	.	.	.	.
1987	532	.	.	.	.	.	.	6	.	.	.	.	.
1988	532	.	.	.	.	.	.	6	.	.	.	.	.
1989	532	.	.	.	.	.	.	6	.	.	.	.	.
1990	532	.	.	.	.	.	.	6	.	.	.	.	.
1991	532	.	.	.	.	.	.	6	.	.	.	.	.
1992	532	.	.	.	.	.	.	6	.	.	.	.	.
1993	532	.	.	.	.	.	.	6	.	.	.	.	.
1994	532	.	.	.	.	.	.	6	.	.	.	.	.
1995	532	.	.	.	.	.	.	6	.	.	.	.	.
1996	532	.	.	.	.	.	.	6	.	.	.	.	.

(Contd.)

Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

State : Bihar

Year	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	1,710	114	6	.	31	2	.	27	.	.	46	2	.
1962	.	.	.	.	.	3	.	.	.	.	44	.	.
1963	1,759	164	3	.	52	2	.	59	.	.	40	.	.
1964	1,796	167	3	.	49	3	.	49	.	.	51	.	.
1965	1,770	168	2	.	50	4	.	13	.	.	38	.	.
1966	1,782	196	3	.	77	2	.	68	.	.	32	.	.
1967	1,304	378	11	.	67	5	.	45	.	.	45	.	8
1968	1,750	405	16	.	52	3	.	25	.	.	51	2	7
1969	1,879	521	16	.	50	2	.	6	.	.	45	3	10
1970	1,886	556	27	.	46	2	.	22	.	1	35	3	10
1971	1,172	672	24	.	41	1	.	19	.	.	35	3	9
1972	1,759	764	22	.	35	2	.	15	.	.	3	3	10
1973	1,579	804	38	.	29	3	.	16	.	.	3	3	10
1974	1,674	788	67	.	28	1	.	6	.	1	38	3	10
1975	1,743	945	69	.	28	1	.	19	.	1	34	4	12
1976	1,646	1,271	84	1	28	2	.	23	.	1	33	6	14
1977	1,738	1,405	154	.	25	3	.	22	.	1	38	4	14
1978	1,984	1,318	170	.	23	4	.	22	.	1	34	5	13
1979	1,941	1,298	171	10	22	3	.	22	.	.	.	.	.
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	1,898	1,269	190	1	18	3	.	22	.	.	29	5	12
1982	1,888	1,214	220	.	13	1	.	15	.	.	33	5	13
1983	1,514	1,316	248	.	.	.	.	6	.	.	30	.	.
1984	1,603	1,469	223	.	13	2	.	17	.	.	31	7	18
1985	1,840	1,472	199	.	12	1	.	16	.	.	24	10	16
1986	1,912	1,146	202	.	11	1	.	19	.	.	24	6	16
1987	1,921	1,453	193	.	10	1	.	16	.	.	24	7	15
1988	1,820	1,720	231	.	10	1	1	17	.	.	26	11	17
1989	1,923	1,769	267	.	8	2	.	15	.	.	25	10	20
1990	1,871	1,664	281	.	8	1	.	16	.	.	28	11	24
1991	1,910	1,681	287	.	9	1	.	21	.	.	21	11	28
1992	1,816	1,712	296	.	8	1	.	18	.	.	21	12	33
1993	1,690	1,724	293	.	8	1	.	20	.	.	19	13	33
1994	1,770	1,821	281	.	7	2	.	17	.	.	17	11	37
1995	1,930	1,819	297	1	5	2	.	21	.	.	16	13	40
1996	2,028	1,887	291	.	.	1	.	20	.	.	28	14	36

(Contd.)

Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

Year	Gujarat												
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	67	221	9	33	4	.	39	7	22	17	26	16	.
1962	.	.	.	.	.	.	.	.	.	.	.	.	.
1963	66	225	8	55	2	.	40	9	40	113	22	.	.
1964	68	185	8	55	2	.	19	4	5	143	24	.	.
1965	68	185	8	55	2	.	19	4	5	143	24	.	.
1966	81	219	.	61	2	.	23	2	5	176	41	.	.
1967	96	342	8	57	3	.	42	5	12	195	39	.	.
1968	125	273	9	53	3	.	45	7	17	212	27	.	.
1969	138	353	11	36	7	.	47	6	19	208	28	.	30
1970	131	556	14	47	50	2	52	4	26	221	44	23	31
1971	138	330	12	34	5	.	61	7	37	291	48	37	36
1972	138	330	12	34	5	.	61	7	37	291	36	37	36
1973	165	300	12	38	5	.	69	8	22	355	36	38	30
1974	165	318	12	38	5	.	69	8	22	355	36	38	30
1975	91	301	12	90	3	.	173	5	43	301	30	17	60
1976	146	462	9	30	6	.	162	8	33	384	38	26	57
1977	135	381	9	44	7	.	175	6	44	220	49	36	77
1978	133	503	4	34	7	.	160	8	27	398	62	50	85
1979	180	378	2	56	6	.	47	15	64	303	54	23	96
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	200	474	21	34	10	.	141	30	185	443	98	80	159
1982	232	496	20	31	12	.	135	40	232	462	116	82	183
1983	232	496	20	31	12	.	135	40	232	462	116	82	183
1984	237	516	25	34	12	.	134	45	247	446	119	74	195
1985	263	500	7	52	12	2	145	54	194	256	73	58	195
1986	231	333	10	65	10	.	160	42	69	327	83	64	212
1987	276	508	21	31	9	.	137	65	176	439	122	85	234
1988	249	353	19	35	9	.	140	47	93	513	123	86	207
1989	249	353	19	35	9	.	140	47	93	513	123	86	207
1990	218	278	16	51	7	.	168	46	70	306	120	84	228
1991	283	523	20	40	9	.	187	71	156	436	123	90	302
1992	339	411	30	34	10	.	193	86	165	337	173	92	329
1993	352	522	31	34	13	.	207	86	176	391	180	88	349
1994	362	435	209	29	12	.	31	77	147	362	199	102	330
1995	395	634	38	28	13	.	212	100	182	474	222	103	354
1996	395	634	38	28	13	.	212	100	182	474	222	103	354

(Contd.)



Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

State : Haryana

Year	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	109	390	9	55	33	-	23	280	-	168	117	-	-
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
1967	138	512	23	72	92	-	47	288	-	177	127	-	-
1968	162	512	21	55	105	-	40	302	-	233	102	-	-
1969	177	666	29	56	100	1	47	237	-	206	139	1	25
1970	206	798	39	65	77	-	73	289	-	191	149	1	36
1971	235	914	35	55	54	-	88	253	1	189	133	1	44
1972	253	976	28	49	42	-	72	286	-	237	95	1	55
1973	263	1,061	32	52	62	-	84	242	-	255	106	1	46
1974	258	1,016	31	58	83	-	107	306	-	248	-	-	67
1975	257	991	50	55	141	-	105	252	1	244	144	1	-
1976	274	1,084	38	50	102	-	112	325	-	251	141	1	62
1977	305	1,204	26	42	57	-	80	276	-	240	152	1	4
1978	347	1,208	18	33	55	-	57	267	1	261	171	-	81
1979	426	1,320	14	26	52	-	61	288	1	280	168	1	60
1980	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	469	1,378	17	37	76	-	103	334	1	311	109	-	112
1982	483	1,452	17	36	74	-	115	355	1	323	130	-	100
1983	481	1,622	17	38	53	-	124	230	1	387	136	-	96
1984	509	1,686	15	40	49	-	121	197	2	390	121	-	123
1985	548	1,680	16	43	45	-	87	158	3	289	107	-	220
1986	577	1,623	15	43	57	-	84	228	7	341	99	-	219
1987	620	1,717	17	50	50	-	119	239	3	378	121	-	190
1988	462	1,696	15	75	56	-	132	174	3	412	133	-	281
1989	595	1,782	12	61	53	-	109	176	1	430	126	-	266
1990	637	1,817	11	55	43	-	133	201	-	469	132	-	318
1991	655	1,805	8	61	41	-	94	196	-	489	142	-	300
1992	634	1,772	7	58	47	-	106	146	-	504	156	-	428
1993	704	1,922	7	71	45	-	111	142	1	531	133	-	360
1994	752	1,958	7	58	33	-	100	134	2	561	108	-	354
1995	793	1,953	5	63	43	-	87	133	1	555	115	-	350
1996	825	1,939	4	68	35	-	103	115	1	649	140	-	384

(Contd.)

Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

Year	State: Himachal Pradesh												
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	21	23	9	.	5	1	.	2	.	.	.	.	.
1962	.	.	.	1	4	1	.	.	.	.	.	.	.
1963	21	23	9	.	4	1	.	2	.	.	.	.	.
1964	21	23	9	.	4	1	.	2	.	.	.	.	.
1965	54	46	16	.	7	1	.	3	.	1	.	.	.
1966	21	22	8	.	4	1	.	1	.	.	.	.	.
1967	53	47	15	.	6	1	.	3	.	1	.	.	.
1968	53	49	16	.	7	1	.	3	.	1	.	.	.
1969	53	49	16	.	7	1	.	3	.	1	.	.	.
1970	54	52	15	.	7	1	.	3	.	1	.	.	.
1971	35	53	16	.	6	1	.	3	.	1	1	.	.
1972	53	60	14	.	6	1	.	3	.	1	.	.	1
1973	54	60	16	.	6	1	.	5	.	1	.	.	.
1974	54	54	16	.	6	1	.	3	.	1	.	.	.
1975	51	54	15	.	6	1	.	3	.	1	.	.	.
1976	51	55	15	.	6	1	.	3	.	1	.	.	.
1977	52	56	16	.	6	1	.	4	.	1	.	.	.
1978	51	56	16	.	6	1	.	4	.	1	.	.	1
1979	53	55	16	.	5	1	.	3	.	1	.	.	.
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	50	57	17	.	6	.	.	3	.	1	.	.	.
1982	52	60	20	.	6	.	.	2	.	1	.	.	1
1983	49	62	19	.	6	.	.	1	.	1	.	.	1
1984	53	61	22	.	5	.	.	1	.	1	.	.	1
1985	52	65	21	.	5	1	.	1	.	1	.	.	1
1986	51	64	22	.	5	.	.	2	.	1	.	.	1
1987	52	63	22	.	5	1	.	3	.	1	.	.	1
1988	50	64	25	.	5	.	.	1	.	1	.	.	1
1989	49	64	25	.	4	.	.	2	.	1	.	.	1
1990	51	68	24	.	4	1	.	1	.	1	.	.	1
1991	49	65	22	.	5	.	.	1	.	1	.	.	1
1992	50	68	24	.	5	.	.	4	.	1	.	.	1
1993	51	67	24	.	4	.	.	5	.	1	.	.	1
1994	50	67	24	.	4	.	.	5	.	1	.	.	1
1995	50	67	24	.	4	.	.	5	.	1	.	.	1
1996	51	67	23	.	4	.	.	5	.	1	.	.	1

(Contd.)

Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

State : Jammu and Kashmir

Year	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	30	23	22	.	3	7	.	4	.	.	2	.	.
1962	.	.	.	.	.	.	.	.	.	.	.	.	.
1963	206	21	23	.	2	7	.	4	.	.	.	.	.
1964	206	21	23	.	2	7	.	4	.	.	.	.	.
1965	209	22	21	.	2	7	.	3	.	.	1	.	.
1966	210	21	20	.	2	.	.	5	.	.	1	.	.
1967	197	18	20	.	2	.	.	5	.	.	1	.	.
1968	197	18	20	.	2	.	.	5	.	.	1	.	.
1969	208	21	22	.	2	.	.	5	.	.	1	.	19
1970	209	26	21	.	2	.	.	4	.	.	1	.	20
1971	209	26	21	.	2	.	.	4	.	.	1	.	20
1972	213	32	23	.	2	.	.	4	.	.	1	.	17
1973	213	40	22	.	2	.	.	6	.	.	1	.	17
1974	219	44	22	.	2	.	.	5	.	.	1	.	27
1975	218	44	23	.	2	.	.	5	.	.	1	.	.
1976	228	47	22	.	2	.	.	5	.	.	1	.	22
1977	233	51	18	.	2	.	.	5	.	.	1	.	23
1978	236	50	12	.	2	.	.	5	.	.	1	.	35
1979	241	54	19	.	1	.	.	4	.	.	1	.	35
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	242	47	17	.	2	.	.	5	.	.	.	.	30
1982	240	52	16	.	1	.	.	7	.	.	1	.	32
1983	245	52	15	.	1	.	1	5	.	.	1	.	33
1984	243	56	17	.	1	.	.	4	.	.	1	.	39
1985	245	57	16	.	1	.	.	4	.	.	.	.	44
1986	239	54	22	.	1	.	.	5	.	.	.	.	48
1987	241	58	19	.	1	.	.	5	.	.	.	.	27
1988	241	58	19	.	1	.	.	5	.	.	.	.	27
1989	244	55	19	.	1	.	.	5	.	.	.	.	48
1990	250	57	17	.	1	6	.	5	.	.	.	.	46
1991	250	58	17	.	1	.	.	6	.	.	.	.	46
1992	246	58	31	.	1	.	1	4	.	.	.	.	48
1993	248	60	18	.	1	.	.	4	.	.	.	.	50
1994	248	62	18	.	1	.	.	3	.	.	.	.	51
1995	249	58	18	.	1	.	.	4	.	.	.	.	39
1996	249	59	18	.	1	9	.	4	.	.	.	.	47

(Contd.)

Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

Year	Karnataka												
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	624	12	10	40	.	5	3	11	.	17	69	.	.
1962	.	9	11	61	2	44	2	8	.	21	73	.	.
1963	644	11	12	62	1	51	2	5	.	18	80	.	.
1964	658	11	12	63	1	50	11	55	.	18	80	.	.
1965	659	13	14	72	2	42	2	5	.	38	89	.	.
1966	635	13	18	88	1	68	8	11	.	50	89	.	.
1967	675	14	29	97	2	80	2	7	.	42	93	.	.
1968	684	14	29	88	2	80	2	4	.	49	105	.	.
1969	716	19	43	136	3	86	8	4	.	26	109	.	.
1970	739	24	45	85	2	66	6	5	.	50	102	.	.
1971	720	26	54	79	.	77	4	4	.	50	102	.	.
1972	770	46	59	167	.	122	25	5	.	75	102	.	.
1973	711	23	55	84	.	75	9	4	.	46	102	.	.
1974	722	35	65	105	.	84	13	4	.	55	112	.	.
1975	701	44	68	113	.	86	22	5	.	80	124	.	19
1976	764	76	97	118	.	107	54	10	.	63	136	.	.
1977	543	77	106	136	.	97	44	12	.	67	143	.	.
1978	686	81	116	115	.	118	45	13	.	86	158	.	.
1979	688	83	122	98	.	112	43	14	.	99	153	.	.
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	694	60	129	93	.	83	29	23	.	67	154	.	.
1982	730	66	129	99	.	97	30	20	.	85	177	.	.
1983	685	64	124	95	.	91	29	26	.	100	184	.	.
1984	742	68	133	103	.	98	28	28	.	130	171	.	.
1985	734	79	139	102	.	111	24	42	.	174	171	.	.
1986	624	63	137	145	.	106	29	51	.	171	170	.	.
1987	711	76	181	186	.	111	41	66	.	76	179	.	.
1988	605	68	158	164	.	116	33	80	.	102	201	.	.
1989	818	84	195	167	.	102	42	65	.	285	238	.	.
1990	737	81	196	186	.	94	46	69	.	177	264	.	.
1991	716	81	187	161	.	93	35	65	.	445	271	.	.
1992	812	70	198	155	.	88	37	66	.	146	283	.	.
1993	855	80	205	155	.	78	46	55	.	171	260	.	1
1994	868	82	222	145	.	70	32	70	.	164	344	.	.
1995	845	74	238	144	.	71	47	59	.	160	323	.	1
1996	912	89	216	155	.	76	36	59	.	136	299	.	1

(Contd.)

**Part II: Table 4 (Contd.)**

**INDIA: Gross Irrigated Area ('000 ha)**

**By Crop, by State**

Year	State :												
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	358	.	.	1	.	1	.	16	.	.	5	.	.
1962	.	.	.	.	.	.	.	.	.	.	.	.	.
1963	368	.	.	.	.	.	.	.	.	.	4	.	.
1964	380	.	.	.	.	.	.	.	.	.	4	.	.
1965	391	.	.	.	.	.	.	.	.	.	4	.	.
1966	406	.	.	.	.	.	.	.	.	.	5	.	.
1967	424	.	.	.	.	.	.	.	.	.	4	.	.
1968	460	.	.	.	.	.	.	.	.	.	4	.	.
1969	470	.	.	.	.	.	.	.	.	.	4	.	.
1970	477	.	.	.	.	.	.	.	.	.	4	.	.
1971	489	.	.	.	.	.	.	.	.	.	4	.	.
1972	499	.	.	.	.	.	.	.	.	.	4	.	.
1973	510	.	.	.	.	.	.	.	.	.	4	.	.
1974	525	.	.	.	.	.	.	.	.	.	4	.	.
1975	539	.	.	.	.	.	.	.	.	.	4	.	.
1976	274	.	.	.	.	.	.	.	.	.	4	.	144
1977	321	.	.	.	.	.	.	.	.	.	.	.	.
1978	255	.	.	.	.	.	.	.	.	.	.	.	.
1979	255	.	.	.	.	.	.	.	.	.	.	.	.
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	277	.	.	.	.	.	.	.	.	.	.	.	.
1982	276	.	.	.	.	.	.	.	.	.	.	.	.
1983	279	.	.	.	.	.	.	.	.	.	1	.	.
1984	287	.	.	.	.	.	.	.	.	.	1	.	.
1985	313	.	.	.	.	.	1	.	.	.	1	.	.
1986	283	.	.	.	.	.	.	.	.	.	1	.	.
1987	299	.	.	.	.	.	.	.	.	.	1	.	.
1988	256	.	.	.	.	.	.	.	.	.	2	.	.
1989	249	.	.	.	.	.	.	.	.	.	2	.	.
1990	243	.	.	.	.	.	.	.	.	.	2	.	.
1991	224	.	.	.	.	.	.	.	.	.	3	.	.
1992	229	.	.	.	.	.	.	.	.	.	2	.	.
1993	.	.	.	.	.	.	.	.	.	.	2	.	.
1994	210	.	.	.	.	.	.	.	.	.	2	.	.
1995	273	.	.	.	.	.	.	.	.	.	2	.	.
1996	235	.	.	.	.	.	.	.	.	.	4	.	.

(Contd.)

Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

Year	State :											Other	
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane		Tobacco
1961	49	194	3	.	44	.	.	49	.	4	48	3	.
1962	.	.	.	.	.	.	.	.	.	.	.	.	.
1963	577	192	1	.	44	.	.	47	.	4	52	.	.
1964	533	230	2	.	47	.	.	64	.	5	49	.	.
1965	547	241	2	.	43	.	.	73	.	6	64	.	.
1966	490	205	9	.	45	.	.	15	1	5	71	.	.
1967	576	221	7	1	53	.	.	87	1	6	39	.	.
1968	555	282	2	.	58	.	.	84	.	5	33	.	.
1969	622	340	10	1	15	.	.	97	1	7	51	2	4
1970	675	421	3	.	50	.	.	104	.	9	63	2	7
1971	620	521	2	.	43	.	.	116	.	11	57	1	15
1972	666	652	1	.	41	.	.	115	.	11	49	15	25
1973	659	687	4	.	47	.	.	137	.	13	53	2	21
1974	601	675	.	.	54	.	1	139	.	13	64	1	28
1975	572	613	9	.	70	.	.	141	2	19	77	1	38
1976	610	790	1	.	63	.	.	151	.	17	74	1	27
1977	730	821	1	.	57	.	.	136	.	24	74	2	31
1978	765	903	2	1	53	.	.	137	1	37	90	1	47
1979	821	980	9	1	53	.	.	147	1	58	104	1	44
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	819	977	10	3	57	.	.	200	2	57	70	1	56
1982	826	979	7	3	51	.	.	218	2	54	78	1	82
1983	886	1,149	9	2	45	.	.	225	5	54	88	1	58
1984	867	1,272	6	2	38	.	.	234	6	52	85	1	66
1985	957	1,291	5	2	36	.	.	291	7	66	77	1	112
1986	900	1,352	6	2	34	.	.	331	6	60	70	1	81
1987	1,053	1,405	11	2	30	.	.	407	14	89	79	1	96
1988	977	1,436	8	3	28	.	.	375	15	79	84	1	112
1989	994	1,677	8	1	27	.	2	421	15	113	74	1	137
1990	1,020	1,543	9	2	23	.	.	479	13	136	68	1	138
1991	1,019	2,014	9	1	25	.	.	586	16	147	72	1	204
1992	1,137	2,040	12	1	28	.	.	654	21	145	76	1	274
1993	1,184	2,190	10	1	27	.	.	665	19	116	61	1	265
1994	1,187	2,668	.	1	25	.	10	766	16	136	52	1	279
1995	1,229	2,815	9	2	29	.	.	1,030	17	150	65	1	290
1996	1,255	2,732	11	1	30	.	.	1,098	17	169	73	1	315

(Contd.)

Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

State : Maharashtra

Year	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	276	15	10	269	3	.	33	45	13	36	157	2	.
1962	.	.	.	.	.	.	.	.	.	.	.	.	.
1963	281	141	11	295	2	1	32	40	10	66	135	.	.
1964	285	144	11	312	1	1	32	44	11	73	137	.	.
1965	285	145	11	312	1	1	31	44	11	73	137	.	.
1966	287	159	13	312	1	1	36	4	17	65	159	.	.
1967	249	205	18	316	1	1	28	51	26	47	171	.	.
1968	300	221	18	302	1	.	42	57	15	57	158	.	.
1969	308	235	19	301	1	.	49	65	16	66	201	1	.
1970	314	263	21	289	2	.	51	66	1	66	222	1	.
1971	314	263	21	289	2	.	51	66	17	66	222	1	.
1972	314	275	17	260	2	.	59	51	21	73	182	1	.
1973	345	248	16	209	4	.	44	46	23	60	205	1	.
1974	340	336	28	313	3	.	75	60	18	57	215	1	.
1975	349	371	24	372	2	.	68	57	21	76	248	1	.
1976	219	546	24	456	2	.	54	79	17	64	275	1	.
1977	359	601	29	350	2	.	60	80	22	53	241	1	.
1978	381	517	5	349	2	.	52	76	38	82	246	1	.
1979	396	484	6	344	2	.	54	70	40	99	244	1	.
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	392	490	7	326	1	.	48	81	71	132	254	2	.
1982	398	521	7	32	1	.	44	45	92	124	285	2	.
1983	338	521	7	321	1	.	44	95	92	124	285	2	.
1984	367	576	11	356	1	.	43	112	222	89	281	2	.
1985	363	489	13	355	1	.	42	117	118	58	281	2	.
1986	397	484	40	385	.	.	47	127	18	110	319	.	.
1987	397	484	40	385	.	.	47	127	18	110	319	.	.
1988	318	377	40	406	.	.	59	124	124	30	345	.	.
1989	318	377	40	406	.	.	59	124	124	30	345	.	.
1990	318	377	26	406	1	.	59	144	124	30	345	1	1
1991	467	388	31	406	.	3	58	129	87	91	360	.	2
1992	331	471	35	467	.	1	59	199	225	64	384	2	2
1993	406	490	38	481	.	.	77	202	142	91	584	.	1
1994	407	527	82	473	.	.	39	215	156	98	539	1	1
1995	415	520	34	481	.	.	66	239	186	89	437	1	.
1996	415	520	34	481	.	.	66	239	186	89	437	1	.

(Contd.)

Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

Year	Orissa												
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	994	4	3	.	.	8	.	35	.	2	24	.	.
1962	981	4	2	.	.	8	.	35	.	3	24	.	.
1963	981	4	2	.	.	8	.	35	.	2	24	.	.
1964	981	4	2	.	.	8	.	35	.	2	24	.	.
1965	931	4	2	.	.	8	.	33	8	2	24	.	.
1966	981	4	2	.	.	8	.	35	.	2	24	.	.
1967	981	4	2	.	.	8	.	35	.	2	24	.	.
1968	981	4	2	.	.	8	.	35	.	.	24	.	.
1969	981	4	2	.	.	8	.	35	.	.	24	.	.
1970	1,224	4	3	.	.	10	.	24	.	.	30	.	.
1971	1,397	5	3	.	.	12	.	50	.	.	34	.	.
1972	1,397	5	3	.	.	12	.	50	.	.	31	.	.
1973	1,100	35	1	.	.	12	.	.	17	.	26	.	.
1974	1,041	.	.	.	.	.	.	16	18	.	.	.	.
1975	1,080	45	.	.	.	10	.	.	26	.	45	.	.
1976	1,195	54	4	.	.	.	.	.	12	.	34	.	.
1977	1,127	34	2	.	.	.	.	.	9	.	33	.	.
1978	1,165	41	1	.	.	.	.	.	14	.	29	.	28
1979	1,161	38	2	.	.	.	.	92	22	.	.	.	.
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	1,192	67	4	.	.	22	.	73	46	.	28	.	14
1982	1,192	67	4	.	.	22	.	73	46	.	28	.	14
1983	1,192	67	4	.	.	22	.	73	46	.	28	.	14
1984	1,192	67	4	.	.	22	.	73	46	.	28	.	14
1985	1,347	52	5	.	.	13	.	99	34	.	21	.	35
1986	1,434	53	5	.	.	16	.	112	59	.	44	4	18
1987	1,460	41	5	.	.	18	.	128	37	.	39	3	15
1988	1,395	44	6	.	.	12	.	108	53	.	42	2	23
1989	1,556	38	12	.	.	14	.	103	68	.	47	2	21
1990	1,556	38	12	.	.	14	.	103	68	.	47	2	21
1991	1,566	32	13	.	.	22	.	115	74	.	39	5	19
1992	1,696	31	18	.	.	29	.	147	87	.	51	2	25
1993	1,540	25	18	.	.	24	.	128	139	.	41	2	40
1994	1,619	19	19	.	.	28	.	144	114	.	39	1	27
1995	1,619	19	19	.	.	28	.	144	114	.	39	1	27
1996	1,771	20	23	.	6	23	.	127	51	.	49	2	23

(Contd.)



Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

Year	State :												
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	319	1,137	240	71	53	.	97	526	2	52	23	1	.
1962	346	1,236	260	79	48	.	101	545	2	556	180	.	.
1963	349	1,322	250	92	38	.	69	491	4	637	176	.	.
1964	235	983	245	4	21	.	56	237	.	466	102	.	.
1966	422	1,517	288	61	94	.	61	29	5	628	296	.	.
1967	244	1,159	302	4	52	1	75	240	19	42	130	.	.
1968	257	1,262	319	3	68	.	91	209	27	401	114	.	.
1969	301	1,661	363	2	43	.	102	156	32	378	134	.	42
1970	324	1,803	401	3	35	.	119	136	31	398	129	.	60
1971	358	1,942	382	3	26	.	129	122	21	388	110	.	68
1972	413	2,040	379	2	22	.	84	112	21	463	188	.	90
1973	436	2,126	408	2	25	.	78	101	22	495	89	.	101
1974	464	2,058	394	3	64	.	86	127	23	512	110	.	115
1975	542	1,961	386	2	144	.	88	125	37	542	110	.	74
1976	530	2,138	402	2	77	.	111	141	37	572	108	.	98
1977	649	2,381	377	2	38	.	92	112	39	546	102	.	54
1978	817	2,379	286	1	32	.	64	95	26	597	103	.	111
1979	1,014	2,512	278	1	23	.	51	102	22	621	96	.	74
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	1,157	2,567	261	1	49	.	45	122	17	643	65	.	116
1982	1,246	2,626	228	1	65	.	41	111	28	679	95	.	89
1983	1,302	1,808	215	4	60	.	31	83	31	706	95	.	80
1984	1,462	2,921	187	2	48	.	35	84	20	637	76	.	74
1985	1,622	2,920	194	.	40	.	46	35	18	467	72	.	119
1986	1,693	2,949	153	1	40	.	25	97	21	553	72	.	128
1987	1,765	3,023	154	.	33	.	19	98	21	562	91	.	94
1988	1,704	2,979	138	1	34	.	11	82	19	616	98	.	139
1989	1,754	3,023	142	3	39	.	13	80	10	755	91	.	99
1990	1,889	3,120	155	.	33	.	8	72	9	728	97	.	78
1991	1,998	3,145	96	.	31	.	10	73	7	696	96	.	61
1992	2,053	3,125	90	7	41	.	8	65	6	713	103	.	83
1993	2,052	3,166	102	.	38	.	7	65	7	697	107	.	64
1994	2,162	3,221	108	.	31	.	12	71	6	574	73	.	55
1995	2,245	3,203	94	2	40	.	7	79	5	593	76	.	70
1996	2,166	3,127	97	2	35	.	5	79	4	739	130	.	90

(Contd.)

Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

Year	Rajasthan												
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	15	574	141	29	354	1	3	166	1	136	38	4	.
1962	.	.	.	.	.	.	.	.	.	.	.	.	.
1963	15	660	82	28	344	.	14	214	1	146	29	.	.
1964	10	642	73	21	321	.	23	230	1	178	27	.	.
1965	18	700	85	26	334	.	30	286	2	182	40	.	.
1966	16	600	213	14	327	.	65	12	6	203	54	.	.
1967	19	636	166	17	354	.	66	253	6	178	29	.	.
1968	28	757	30	19	408	.	46	257	3	185	19	.	.
1969	40	810	273	19	420	.	99	280	14	196	35	4	26
1970	41	814	158	13	377	.	81	307	7	167	48	4	48
1971	34	1,003	41	5	405	.	50	296	2	147	35	3	64
1972	43	1,013	33	8	331	.	39	275	1	219	26	2	108
1973	44	1,026	178	12	323	.	97	267	7	241	32	4	117
1974	42	1,108	8	6	425	.	49	293	1	208	38	3	143
1975	52	1,017	225	5	522	.	101	344	20	205	49	2	196
1976	58	1,174	4	6	536	.	22	363	1	231	38	3	83
1977	57	1,274	39	1	430	.	23	300	3	236	42	6	92
1978	56	1,319	47	1	352	.	17	285	3	313	56	2	186
1979	80	1,544	71	3	313	.	29	325	9	346	55	3	181
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	73	1,391	210	10	302	.	150	414	16	317	28	3	249
1982	44	1,398	155	16	188	.	194	417	15	327	36	3	318
1983	34	1,716	211	18	238	.	193	351	28	360	36	2	348
1984	55	1,780	45	5	223	.	85	310	12	381	32	2	501
1985	54	1,475	61	6	211	.	102	258	32	305	29	2	480
1986	51	1,486	147	10	243	.	141	339	60	301	26	2	507
1987	61	1,662	216	17	242	.	206	379	65	344	28	2	761
1988	45	1,374	71	14	210	.	200	214	79	327	25	2	940
1989	49	1,591	89	6	203	.	121	250	48	278	15	2	1,040
1990	44	1,522	60	8	183	.	144	301	48	410	15	2	1,273
1991	27	1,626	119	3	194	.	82	341	35	428	21	2	1,368
1992	36	1,676	119	4	228	.	148	263	67	459	29	1	1,583
1993	51	2,067	85	3	207	.	82	283	71	465	24	1	1,368
1994	48	1,907	126	3	154	.	145	303	88	506	20	1	1,395
1995	50	2,197	18	1	209	.	68	386	57	472	21	2	1,552
1996	54	2,078	123	.	176	.	80	351	76	594	27	1	1,975

(Contd.)

Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

Year	Tamil Nadu												
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	2,335	.	2	154	.	182	65	11	2	1	82	19	.
1962	2,447	.	2	143	.	152	55	6	107	108	55	.	.
1963	2,393	.	2	142	.	136	51	6	115	113	73	.	.
1964	2,403	.	2	143	.	143	46	3	103	101	98	.	.
1965	2,297	.	2	159	.	151	51	6	115	87	101	.	.
1966	2,486	.	4	144	.	146	48	5	140	86	90	.	.
1967	2,472	.	6	156	.	150	55	7	181	86	107	.	.
1968	2,124	.	8	149	.	146	54	9	128	71	171	.	.
1969	2,321	.	11	144	.	145	64	6	131	77	138	15	.
1970	2,425	.	12	128	.	130	65	10	181	85	114	10	.
1971	2,484	.	11	121	.	131	58	16	302	122	116	11	.
1972	2,631	.	13	115	.	132	59	12	178	108	143	14	.
1973	2,485	.	15	126	.	114	63	13	269	109	186	12	.
1974	2,028	.	15	125	.	126	50	11	171	100	160	6	.
1975	2,379	.	21	122	.	149	56	6	163	72	128	13	.
1976	2,018	.	15	108	.	123	54	11	144	89	154	.	.
1977	2,581	.	15	107	.	131	60	12	198	147	167	11	.
1978	2,556	.	18	109	.	117	74	11	251	165	154	13	.
1979	.	.	.	.	.	.	.	.	.	.	.	.	.
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	2,105	.	16	96	.	89	58	16	254	101	183	14	.
1982	2,306	.	21	95	.	73	49	12	226	96	207	10	.
1983	1,787	.	16	71	.	62	32	11	189	73	185	6	.
1984	2,196	.	14	81	.	70	48	17	240	85	156	11	.
1985	2,331	.	13	73	.	65	45	19	288	130	170	12	.
1986	2,081	.	12	66	.	57	43	21	263	127	191	13	.
1987	1,789	.	22	53	.	52	31	35	235	75	196	8	.
1988	1,766	.	17	47	.	51	33	29	315	108	195	9	.
1989	1,717	.	23	46	.	49	33	29	245	108	217	8	.
1990	1,796	.	22	55	.	56	35	50	273	111	222	10	.
1991	1,686	.	18	46	.	48	30	58	274	77	233	11	.
1992	1,958	.	22	38	.	46	23	49	338	89	238	7	.
1993	2,016	.	18	37	.	52	20	44	379	89	215	8	.
1994	2,137	.	19	42	.	49	19	39	354	83	249	9	.
1995	2,064	.	25	38	.	44	23	40	348	97	328	7	.
1996	1,795	.	25	39	.	30	15	38	258	96	326	9	.

(Contd.)

Part II: Table 4 (Contd.)

By Crop, by State

INDIA: Gross Irrigated Area ('000 ha)

Year	Uttar Pradesh												
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	508	1,803	69	12	85	3	4	961	.	54	885	16	.
1962	534	1,893	86	9	805	11	2	1141	.	65	799	.	.
1963	557	1,925	96	11	797	12	4	1170	.	84	792	.	.
1964	603	1,961	88	9	764	12	3	1109	.	61	910	.	.
1965	633	2,232	150	10	784	15	6	654	1	55	965	.	.
1966	773	2,598	160	16	865	14	9	1297	2	61	766	.	.
1967	642	2,531	128	8	779	14	4	934	1	58	673	.	.
1968	825	3,021	221	10	798	13	23	1149	2	43	848	9	35
1969	741	3,421	231	9	801	12	7	1083	1	46	965	10	45
1970	764	3,996	251	7	737	12	5	1006	1	45	902	8	64
1971	677	4,054	128	7	709	1	3	957	.	45	837	4	89
1972	841	4,254	217	8	689	2	8	874	1	41	892	8	68
1973	787	4,191	166	8	688	2	5	842	1	37	1,028	5	85
1974	921	4,586	252	9	726	2	24	798	3	24	1,067	5	147
1975	862	4,886	163	2	697	2	8	804	1	25	1,036	9	128
1976	932	5,270	201	7	627	3	8	757	1	20	1,100	11	130
1977	1,093	5,364	141	4	544	2	4	727	.	23	1,267	9	187
1978	1,118	5,928	113	3	460	2	3	732	.	26	1,236	9	157
1979	1,221	6,649	214	5	385	1	7	654	1	35	1,088	15	241
1980	1,413	6,419	235	5	318	1	24	667	2	25	1,346	11	255
1981	1,435	6,958	235	6	277	1	16	653	2	28	1,392	11	181
1982	1,501	7,130	200	5	268	1	10	580	1	22	1,315	14	162
1983	1,501	7,130	200	5	268	1	10	580	1	22	1,315	14	162
1984	1,501	7,131	200	5	268	1	10	580	1	22	1,315	14	162
1985	1,857	7,117	269	4	287	1	8	699	1	24	1,211	15	349
1986	1,932	7,457	393	10	261	1	90	696	2	18	1,488	13	353
1987	2,088	7,656	311	6	250	1	42	672	2	18	1,461	14	369
1988	2,350	7,603	345	8	233	1	43	687	3	17	1,463	16	375
1989	2,440	7,669	341	7	213	1	36	744	2	14	1,558	15	474
1990	2,440	7,669	341	7	213	1	36	744	2	14	1,558	15	474
1991	2,747	8,084	360	7	225	1	45	713	2	12	1,704	16	655
1992	3,114	8,286	375	7	203	1	49	753	5	10	1,518	16	551
1993	3,375	8,358	356	5	214	1	52	801	4	9	1,606	15	548
1994	3,465	8,258	341	4	206	1	47	790	2	11	1,759	13	579

(Contd.)

Part II: Table 4 (Contd.)

INDIA: Gross Irrigated Area ('000 ha)

By Crop, by State

Year	West Bengal												
	Rice	Wheat	Maize	Jowar	Barley	Ragi	Bajra	Pulses	Groundnut	Cotton	Sugarcane	Tobacco	Other
1961	1,237	26	7	.	3	.	.	43	.	.	12	.	.
1962	1,221	26	7	.	3	.	.	43	.	.	12	.	.
1963	1,277	27	8	.	4	.	.	44	.	.	15	.	.
1964	1,277	27	8	.	4	.	.	44	.	.	.	.	.
1965	1,277	27	8	.	4	.	.	44	.	.	.	.	.
1966	1,277	27	8	.	4	.	.	44	.	.	.	.	.
1967	1,315	27	8	.	4	.	.	46	.	.	15	.	.
1968	1,315	27	8	.	4	.	.	46	.	.	17	.	.
1969	1,315	27	8	.	4	.	.	46	.	.	17	.	.
1970	1,315	27	8	.	4	.	.	44	.	.	17	.	.
1971	1,353	32	6	.	2	.	.	40	.	.	11	.	.
1972	1,353	32	6	.	2	.	.	40	.	.	11	.	.
1973	1,353	32	6	.	2	.	.	40	.	.	11	.	.
1974	1,353	32	6	.	2	.	.	40	.	.	11	.	.
1975	1,353	32	6	.	2	.	.	40	.	.	11	.	.
1976	1,353	32	6	.	2	.	.	40	.	.	.	.	.
1977	1,353	32	6	.	2	.	.	40	.	.	11	.	.
1978	1,353	32	6	.	2	.	.	40	.	.	11	.	.
1979	1,353	32	6	.	2	.	.	40	.	.	11	.	.
1980	.	.	.	.	.	.	.	.	.	.	.	.	.
1981	1,353	32	6	.	2	.	.	40	.	.	11	.	.
1982	1,353	32	6	.	2	.	.	40	.	.	11	.	.
1983	1,301	170	.	.	.	.	.	7	.	.	6	.	64
1984	1,368	223	.	.	.	.	.	7	.	.	3	.	85
1985	1,368	223	.	.	.	.	.	7	.	.	3	.	85
1986	1,251	221	.	.	1	.	.	7	.	.	2	.	125
1987	1,251	221	.	.	1	.	.	7	.	.	2	.	125
1988	1,251	221	.	.	1	.	.	7	.	.	2	.	125
1989	1,251	221	.	.	1	.	.	7	.	.	2	.	125
1990	1,251	221	.	.	1	.	.	7	.	.	2	.	125
1991	1,251	221	.	.	1	.	.	7	.	.	2	.	125
1992	1,251	221	.	.	1	.	.	7	.	.	2	.	125
1993	1,251	221	.	.	1	.	.	7	.	.	2	.	125
1994	1,530	268	.	.	.	.	.	10	.	.	8	.	322
1995	1,530	268	.	.	.	.	.	10	.	.	8	.	322
1996	1,530	268	.	.	.	.	.	10	.	.	8	.	322

**Part II: Table 5**

**PAKISTAN: Area of Irrigated and Unirrigated Wheat ('000 ha)**

**By Province**

Province	Punjab		Sindh		NWFP		Baluchistan	
	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated
1976	3,558	914	677	121	285	422	75	60
1977	3,682	916	782	145	284	433	63	85
1978	3,721	881	809	97	278	418	73	84
1979	3,914	892	906	103	286	418	94	74
1980	4,063	889	983	44	299	459	111	78
1981	4,061	917	988	42	304	486	112	73
1982	4,252	915	984	42	305	508	157	59
1983	4,322	963	970	38	307	518	161	119
1984	4,360	888	972	38	293	501	169	121
1985	4,303	862	990	40	304	481	167	110
1986	4,494	849	991	40	305	477	172	76
1987	4,714	860	993	43	302	501	198	96
1988	4,669	675	992	33	300	457	177	6
1989	4,805	785	989	56	312	500	212	72
1990	4,908	760	1,006	39	330	505	214	83
1991	4,944	768	1,015	39	334	506	220	86
1992	4,914	756	1,020	39	342	501	222	85
1993	5,169	792	1,016	88	329	521	275	111
1994	5,067	703	1,060	45	337	493	259	69
1995	5,166	737	992	71	351	513	278	63
1996	5,265	708	1,035	71	352	514	297	133
1997	5,084	756	1,037	70	346	497	277	42
1998	5,206	729	1,050	70	371	547	295	87
1999	5,226	709	1,053	71	353	505	267	47
2000	5,464	716	1,105	40	326	480	314	18
2001	5,626	630	791	20	321	469	301	23

Source: Agricultural Statistics of Pakistan.

Notes: NWFP = North West Frontier Province.

**Part II: Table 6**

**PAKISTAN: Net Irrigated Area (million ha)**

**By Province, by Source**

Province	Punjab						
	Government Canals	Private Canals	Tube Wells	Wells	Canal Tube Wells	Canal Wells	Tanks
1976	4.54	-	1.48	0.20	3.14	0.19	0.07
1977	4.67	-	1.44	0.18	3.14	0.17	0.07
1978	4.60	-	1.50	0.17	3.35	0.15	0.05
1979	4.70	-	1.60	0.15	3.61	0.11	0.05
1980	4.63	-	1.71	0.14	3.81	0.09	0.05
1981	4.58	-	1.68	0.14	3.95	0.10	0.05
1982	4.59	-	1.74	0.14	4.17	0.11	0.05
1983	4.56	-	1.71	0.12	4.53	0.07	0.04
1984	4.52	-	1.69	0.12	4.58	0.08	0.06
1985	4.45	-	1.73	0.13	4.68	0.08	0.07
1986	4.41	-	1.80	0.12	4.95	0.08	0.05
1987	4.47	-	1.91	0.12	5.16	0.07	0.09
1988	4.37	-	2.01	0.10	5.23	0.07	0.04
1989	4.40	-	2.17	0.11	5.53	0.08	0.06
1990	4.33	-	2.26	0.11	5.72	0.08	0.05
1991	4.31	-	2.23	0.08	5.87	0.08	0.06
1992	4.28	-	2.23	0.11	5.93	0.11	0.05
1993	4.31	-	2.29	0.13	6.23	0.10	0.05
1994	4.20	-	2.36	0.09	6.22	0.09	0.04
1995	4.18	-	2.40	0.12	6.41	0.10	0.05
1996	4.21	-	2.46	0.13	6.58	0.11	0.07
1997	4.17	-	2.44	0.13	6.61	0.11	0.11
1998	4.08	-	2.53	0.11	6.74	0.13	0.07
1999	3.88	-	2.53	0.11	6.88	0.09	0.06
2000	3.93	-	2.65	0.12	6.99	0.09	0.07
2001	3.82	-	2.77	0.10	7.22	0.10	0.04

Source: Agricultural Statistics of Pakistan.

(Contd.)

Part II: Table 6 (Contd.)

PAKISTAN: Net Irrigated Area (million ha)

By Province, by Source

Province	Sindh						
	Year	Government Canals	Private Canals	TubeWells	Wells	Canal Tube Wells	Canal Wells
1976	2.66	-	0.06	0.01	-	-	0.45
1977	2.71	-	0.07	0.01	-	-	0.43
1978	2.64	-	0.06	0.01	-	-	0.47
1979	2.63	0.01	0.08	0.01	-	-	0.53
1980	2.57	-	0.06	0.01	-	-	0.53
1981	2.56	-	0.06	0.01	-	-	0.44
1982	2.61	-	0.13	*	-	-	0.44
1983	2.51	-	0.13	*	-	-	0.43
1984	2.45	-	0.11	*	-	-	0.49
1985	2.33	-	0.10	*	-	-	0.39
1986	2.42	-	0.11	0.01	-	-	0.51
1987	2.45	-	0.14	*	-	-	0.54
1988	2.31	-	0.12	*	-	-	0.06
1989	2.39	-	0.13	*	-	-	0.39
1990	2.27	-	0.13	*	-	-	0.45
1991	2.45	-	0.14	*	-	-	0.05
1992	2.44	-	0.14	*	-	-	0.05
1993	2.44	-	0.14	*	-	-	0.05
1994	2.30	-	0.14	*	-	-	-
1995	2.15	-	0.12	*	-	-	-
1996	2.17	-	0.12	*	-	-	-
1997	2.41	-	0.13	*	-	-	-
1998	2.43	-	0.13	*	-	-	-
1999	2.53	-	0.13	*	-	-	-
2000	2.39	-	0.13	*	-	-	-
2001	1.91	-	0.10	*	-	-	-

(Contd.)



Part II: Table 6 (Contd.)

PAKISTAN: Net Irrigated Area (million ha)

By Province, by Source

Province	North West Frontier Province						
	Government Canals	Private Canals	Tube Wells	Wells	Canal Tube Wells	Canal Wells	Tanks
1976	0.28	0.27	0.02	0.04	-	-	0.04
1977	0.30	0.31	0.03	0.04	-	-	0.03
1978	0.32	0.32	0.02	0.03	-	-	0.05
1979	0.32	0.31	0.02	0.03	-	-	0.04
1980	0.29	0.30	0.02	0.04	-	-	0.05
1981	0.29	0.33	0.04	0.04	-	-	0.04
1982	0.30	0.36	0.06	0.03	-	-	0.03
1983	0.31	0.32	0.05	0.03	-	-	0.07
1984	0.31	0.31	0.05	0.04	-	-	0.09
1985	0.30	0.36	0.05	0.04	-	-	0.06
1986	0.30	0.37	0.05	0.04	-	-	0.06
1987	0.31	0.39	0.05	0.04	-	-	0.05
1988	0.32	0.38	0.05	0.04	-	-	0.05
1989	0.32	0.37	0.05	0.04	-	-	0.05
1990	0.32	0.37	0.05	0.04	-	-	0.06
1991	0.32	0.37	0.05	0.04	-	-	0.06
1992	0.31	0.38	0.06	0.04	-	-	0.06
1993	0.31	0.38	0.06	0.04	-	-	0.06
1994	0.34	0.40	0.08	0.04	-	-	0.03
1995	0.32	0.37	0.09	0.04	-	-	0.03
1996	0.35	0.37	0.09	0.04	-	-	0.03
1997	0.35	0.38	0.09	0.04	-	-	0.03
1998	0.38	0.40	0.09	0.04	-	-	0.03
1999	0.39	0.39	0.09	0.04	-	-	0.03
2000	0.39	0.37	0.09	0.04	-	-	0.03
2001	0.41	0.35	0.09	0.04	-	-	0.04

(Contd.)

**Part II: Table 6 (Contd.)**

**PAKISTAN: Net Irrigated Area (million ha)**

**By Province, by Source**

Province	Baluchistan						
	Government Canals	Private Canals	Tube Wells	Wells	Canal Tube Wells	Canal Wells	Tanks
1976	0.24	-	0.05	0.03	0.01	-	0.09
1977	0.24	-	0.05	0.04	0.01	-	0.09
1978	0.34	-	0.04	0.04	0.01	-	0.09
1979	0.34	-	0.04	0.04	0.02	-	0.09
1980	0.34	-	0.04	0.04	0.02	-	0.09
1981	0.34	0.04	0.05	0.02	-	-	0.08
1982	0.34	0.04	0.06	0.02	-	-	0.08
1983	0.35	0.04	0.09	0.03	-	-	0.09
1984	0.33	0.03	0.10	0.02	-	-	0.08
1985	0.31	0.03	0.09	0.02	-	-	0.06
1986	0.31	0.03	0.09	0.02	-	-	0.06
1987	0.32	0.02	0.10	0.02	-	-	0.06
1988	0.32	0.03	0.12	0.02	-	-	0.04
1989	0.33	0.05	0.11	0.01	-	-	0.05
1990	0.39	0.06	0.13	0.01	-	-	0.06
1991	0.39	0.05	0.14	0.01	-	-	0.05
1992	0.39	0.05	0.16	0.01	-	-	0.05
1993	0.41	0.06	0.18	0.01	-	-	0.08
1994	0.41	0.08	0.20	0.01	-	-	0.10
1995	0.41	0.08	0.22	0.01	-	-	0.10
1996	0.42	0.08	0.22	0.01	-	-	0.12
1997	0.42	0.08	0.24	0.01	-	-	0.08
1998	0.42	0.08	0.25	0.01	-	-	0.08
1999	0.40	0.08	0.23	0.02	-	-	0.07
2000	0.39	0.09	0.24	0.02	-	-	0.08
2001	0.41	0.08	0.23	0.02	-	-	0.09

**Part II: Table 7**

**PAKISTAN: Number of Electric Tube Wells By Ownership, by Province**

Province	Punjab		Sindh		NWFP		Baluchistan	
	Public	Private	Public	Private	Public	Private	Public	Private
1979	9,596	47,508	909	6,389	452	3,681	76	2,490
1980	9,883	50,034	1,687	9,743	539	3,711	70	2,910
1981	10,065	54,358	2,429	11,726	614	3,782	70	3,310
1982	10,374	56,664	3,066	13,199	686	3,905	70	3,630
1983	10,498	58,731	3,066	13,911	786	3,982	100	4,308
1984	10,371	60,551	3,147	14,410	783	4,077	55	4,653
1985	10,151	61,683	3,789	15,523	832	4,135	103	4,721
1986	10,386	63,775	3,911	15,317	854	4,160	121	4,750
1987	10,448	64,390	3,205	14,646	877	4,230	138	4,941
1988	10,394	65,227	3,857	15,505	877	5,248	134	6,206
1989	10,137	67,682	4,116	16,001	989	6,535	150	6,696
1990	10,240	70,758	4,164	16,456	985	6,704	175	7,329
1991	10,276	71,707	4,164	16,595	985	6,911	207	7,939
1992	10,029	69,995	4,164	16,773	1,048	7,362	396	7,985
1993	9,484	71,609	4,300	17,116	1,120	7,553	467	7,290
1994	9,610	73,476	4,300	17,467	1,120	7,904	497	7,601
1995	9,052	69,841	4,300	17,757	1,120	8,046	497	7,601
1996	8,877	70,680	4,300	13,705	1,120	7,043	586	7,994
1997	8,877	70,680	4,300	13,705	1,181	7,914	774	10,805
1998	8,877	70,039	4,300	13,705	1,344	8,901	1,011	10,673
1999	8,877	70,039	6,777	14,295	1,344	8,901	1,011	10,673
2000	8,877	70,680	7,957	14,000	1,344	8,901	1,135	10,129
2001	8,877	70,680	9,171	14,930	1,344	8,901	1,135	10,129

Source: Agricultural Statistics of Pakistan.

Notes: NWFP = North West Frontier Province.

**Part II: Table 8**

**PAKISTAN: Number of Diesel Tube Wells**

**By Ownership, by Province**

Province	<u>Punjab</u>		<u>Sindh</u>		<u>NWFP</u>		<u>Baluchistan</u>	
	Public	Private	Public	Private	Public	Private	Public	Private
1979	160	100,487	-	2,627	33	571	64	3,464
1980	163	104,434	-	3,196	38	581	61	3,613
1981	140	107,509	-	3,695	38	582	61	3,793
1982	161	109,697	-	4,172	49	588	61	3,893
1983	130	112,533	-	4,172	48	586	58	3,483
1984	186	127,203	-	4,172	49	608	74	3,399
1985	76	143,570	3	4,196	45	611	78	3,269
1986	70	149,633	2	4,306	45	612	94	3,323
1987	109	160,459	2	4,077	41	625	105	3,503
1988	94	176,337	1	4,463	41	625	93	4,085
1989	82	186,875	5	4,553	41	651	103	5,725
1990	29	201,566	42	4,629	23	346	158	6,463
1991	149	213,815	42	4,739	23	435	168	6,834
1992	162	229,407	42	4,814	47	357	492	7,979
1993	168	247,000	128	5,065	47	377	373	7,422
1994	204	258,483	128	5,455	47	416	424	7,781
1995	139	336,239	128	5,455	47	456	424	7,781
1996	84	355,587	128	5,455	47	456	362	8,626
1997	84	355,587	128	5,455	38	593	763	8,717
1998	156	395,394	128	5,455	93	1,618	925	9,439
1999	156	395,394	128	5,455	93	1,638	925	9,439

Source: Agricultural Statistics of Pakistan.

Notes: NWFP = North West Frontier Province.



# Appendix

## Data Sources Used in this Publication

This appendix provides definitions and sources of data used in this report. It is arranged into 2 sections. Section I presents definitions of key variables presented in data tables. Section II describes key data and information sources used in data tables. Descriptions follow the same order of data tables as in parts I and II of this publication.

### Section I—Key Definitions

#### *Irrigation*

Irrigation is artificial application of water to the soil for crop production. In many areas of the world, the amount and timing of rainfall are not adequate to meet the moisture requirement of the crops to get an economically viable harvest. Thus supplementing water available from rainfall and soil moisture contribution from groundwater becomes essential. (Source: Michael, A.M. 1978. *Irrigation Theory and Practice*. New Delhi: Vikas Publishing House)

#### *Net Irrigated Area*

Net irrigated area refers to the area developed using appropriate methods to irrigate crop fields. Under this category, FAO includes areas with partial control irrigation, spate irrigation areas, and equipped wetland or inland valley bottoms. (See text box A-1 for the FAO definition of irrigated area.)

#### *Gross Irrigated Area*

Gross irrigated area refers to the sum of all irrigated land across seasons during a reference time period. Thus, if land is used to plant two times using irrigation within the same year, that particular area is included twice when calculating annual gross irrigated area.

#### *Irrigation Intensity*

An indicator for utilization of available irrigated land for crop production within a reference period, irrigation intensity is the gross irrigated area divided by net irrigated area.

### Section II—Information on Data Sources

#### Part I—National-Level Data for Selected Countries

##### ***Tables 1 to 5: Area irrigated and food grain production***

These tables provide data for countries that reported a net irrigated area of 100,000 ha or more in 1998. Countries are arranged by respective continent, except for countries in the former USSR. Data source of tables 1-4 is the Food and Agriculture Organization of the United Nations (FAO).

FAO conducts a comprehensive program to collect and disseminate national-level data on agricultural production and trade. Data collected from respective national agencies are available through printed or electronic publications and online. Data by country on key variables of agricultural production are available from 1961. Data on land use, trade and prices as well as agricultural trade data with destination countries are also available. FAO definitions of key variables are presented in Box A-1. The FAO Statistical Databases at Internet address <http://apps.fao.org> are presented as data collections in which a set of closely related variables is included. Data collections are arranged within data domains, the second level of

### FAO Definitions for Key Agricultural Data

#### *Irrigated Area*

Data on irrigation relate to areas equipped to provide water to the crops. These include areas equipped for full and partial control irrigation, spate irrigation areas, and equipped wetland or inland valley bottoms.

#### *Area Harvested*

Data refer to the area from which a crop is gathered. Area harvested, therefore, excludes the area from which, although sown or planted, there was no harvest due to damage, failure, etc. It is usually net for temporary crops and gross for permanent crops. Net area differs from gross area insofar as the latter includes uncultivated patches, footpaths, ditches, headlands, shoulders, shelterbelts, etc. If the crop under consideration is harvested more than once during the year as a consequence of successive cropping (i.e., the same crop is sown or planted more than once in the same field during the year), the area is counted as many times as harvested.

#### *Production*

Production of cereals refers to "the actual harvested production from the field or orchard and gardens, excluding harvesting and threshing losses and that part of crop not harvested for any reason." Production therefore includes the quantities of the commodity sold in the market (marketed production) and the quantities consumed or used by the producers (auto-consumption). When the production data available refers to a production period falling into two successive calendar years and it is not possible to allocate the relative production to each of them, it is usual to refer production data to that year into which the bulk of the production falls.

*Source: Food and Agriculture Organization of the United Nations*

organizing. Data domains are arranged by subset. Time series data are also available in FAOSTAT-CD-ROM published annually (latest issue, 1999). FAO also publishes the FAO Production Yearbook annually.

The data subset, domain and collection at <http://apps.fao.org>, used as the source for each table, are given below.

*Table 1: Net Irrigated Area by Country, 1961-1999.*

Subset: Agriculture  
Data domain: Land  
Data collection: Irrigation

*Table 2: Net Irrigated Area, Estimated Irrigation Intensity and Gross Irrigated Area, 1995.*

Source for net irrigated area is the Food and Agriculture Organization of the United Nations. Irrigation intensities are based on IWMI estimates, or on expert opinions, etc. Gross irrigated area equals net irrigated area multiplied by irrigation intensity.

*Table 3: Total Harvested Area of Cereals by Country, 1961 –1999.*

Subset: Agriculture  
Data domain: Agricultural Production  
Data collection: Crops: Primary

*Table 4: Total Production of Cereals by Country, 1961- 1999.*

Subset: Agriculture  
Data domain: Agricultural Production  
Data collection: Crops: Primary

*Table 5: Gross Irrigated Area of Rice in Selected Countries in Asia, 1961- 2000.*

The source of data for this table is *World Rice Statistics*, a publication of the International Rice Research Institute (IRRI).

IRRI, a Future Harvest research center supported by the Consultative Group on International Agricultural Research (CGIAR), periodically publishes *World Rice Statistics*. This publication is a comprehensive source for time series data related to rice. It includes national-level as well as global-level data on production, harvested area for major rice producing countries, imports and exports of rice, food aid, consumption and calorie availability, land use, prices, irrigation development and several other important statistics. Province-level data for the People's Republic of China and state-level data for India are also available. Most data series begin from 1961. Current updates are available at the Internet address, <http://www.riceweb.org/Ricetabindex.htm>.

#### **Tables 6 and 7: Prices and price indices**

Tables 6 and 7 provide data on world prices for important cereal grains and urea, and commonly used price indexes.

*Table 6: Nominal World Prices of Major Food Grains and Urea, 1950- 2000.*

This table presents world prices of major food grains for the years, 1950, 1955, 1960 and 1965, and annually from 1970 to 2000. The main data source for this table is the International Economics Department of the World Bank. Current data updates are available from *World Bank Development Prospects: Commodity Price Data Pinksheet* published monthly online at the Internet-address, <http://www.worldbank.org/prospects/>. Source of the price of urea is *World Rice Statistics*.

*Table 7: Commonly Used Price Indices.*

Two commonly used price indices, the Manufacturing Unit Value Index commonly known as MUV-5, and Urban Sector Component of the United States Consumer Price Index (USCPI) are presented in this table. Data are available for the same years as for table 6.

- The G-5 Manufacturing Unit Value Index, which is commonly used to deflate international prices, is defined as the c.i.f. index of US dollar prices of industrial countries' manufactured exports to the developing countries. Updates are available from the *World Bank Development Prospects: Commodity Price Data Pinksheet* at the Internet address, <http://www.worldbank.org/prospects/>.
- Details of the USCPI are available from United States Bureau of Labor Statistics, Consumer Price Index Homepage at the Internet address, <http://stats.bls.gov/cpihome.htm>.

#### **Table 8: Water use in different sectors by country**

Table 8 provides data on sectoral water use by country, as estimated in the PODIUM model of the International Water Management Institute. More details can be found at <http://www.cgiar.org/iwmi/tools/podium.htm>.

#### **Tables 9 and 10: Key characteristics of river basins**

Tables 9 and 10 provide key information and data on selected river basins and dams by country.



*Table 9: Key Characteristics of Selected River Basins*

The top 50 river basins with more than 100,000 ha of irrigated land are listed in table 9. Information on key characteristics, population density, percentage of area irrigated, percentage of cropland area and area of the total basin are provided.

Data are adopted from: Revenga, Carmen, S. Murray, J. Abramovitz and A. Hammond. 1998. *Watersheds of the World: Ecological value and vulnerability*. Washington, DC: World Resources Institute and WorldWatch Institute. Details about the publication are available at the Internet address, <http://www.wri.org>.

*Table 10: Number of Large Dams by Country, 1998.*

Large dams are defined as those dams with a height of 15 m or more from its base. The International Commission on Large Dams (ICOLD) regularly publishes the *World Register of Dams*. This publication provides details of large dams as reported by the member countries of ICOLD. Location details of the dam, year of construction and engineering details for 24,864 large dams are included in the 1998 version of *World Register of Dams*. Information on this publication, including its computerized database, is available at the Internet address, <http://www.icold-cigb.org/>.

## Part II—Sub-National Data for Selected Countries

Part II provides data for China, India and Pakistan. Data and information used here are obtained from country statistical sources of the respective countries.

### China

Tables 1 and 2 present information and data for the People's Republic of China.

Table 1: Net Irrigated Area by Province, 1975-1996

Table 2: Cultivated Area by Province, 1975-1996

The source of information for these tables is the *Statistical Yearbook of China* published by China Statistics Press, Beijing.

### India

Tables 3 and 4 give state-wise data for India. Data were obtained from various published sources, including publications of the Directorate of Economics and Statistics, Ministry of Agriculture and Cooperatives, New Delhi and other data compilers, whose primary source was also the Directorate of Economics and Statistics.

Table 3: Net Irrigated Area by Source, by State, 1961-1996

Table 4: Gross Irrigated Area by Crop, by State, 1961-1996

Some useful sources of Indian agricultural statistics are:

- Bansil, P.C. 1990. *Agricultural Statistical Compendium—Vols. I and II*, New Delhi: Technoeconomic Research Institute. This publication provides time series data on principal crops for the country from 1950/51 to 1986/87, by state for 1950/51, 1955/56, 1960/61, 1965/66 and 1967/68, and annually from 1970/71 to 1988/89. The publication is also a source of data on input use, farm characteristics and prices.
- *Fertilizer Statistics*, an annual statistical publication of the Fertilizer Association of India, is a comprehensive collection of data from several published and unpublished sources. This publication provides statistics related to production, land use, commodity prices, irrigated area by source, by crop and by state, and agricultural production, area and yield. Data on irrigated and non-irrigated yields for principal crops are also given. Other agricultural data of India are available at Internet address, <http://www.fertindia.com>.

- Bansil, P.C. 2002. *Agricultural Statistics in India*. Fourth Edition. New Delhi: CBS Publishers: A detailed description of the nature, scope, development and availability of various types of agricultural statistics of India is given in this title.
- The Digital South Asia Library, a project of the Center for Research Libraries, University of Chicago, offers online access to selected numbers of Statistical Abstract of British India at the Internet address: <http://dsal.uchicago.edu/statistics/index.html>. Historical statistics on agriculture and irrigation in India during the British period is available online at this site.

### ***Pakistan***

Tables 5 to 8 provide province-wise data for Pakistan.

Table 5: Area of Irrigated and Unirrigated Wheat by Province, 1976-1999

Table 6: Net Irrigated Area by Crop, by Province, 1976-1999

Table 7: Number of Electric Tube Wells by Province, 1979-1999

Table 8: Number of Diesel Tube Wells by Province, 1979-1999

These data and information were obtained from various editions of *Agricultural Statistics of Pakistan* published by the Government of Pakistan, Economic Division, Economic Advisor's Wing, Islamabad.

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