Compilation of Agricultural Production Data in Areas Currently in India, Pakistan, and Bangladesh from 1901/02 to 2011/02

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Abstract

This paper presents estimates for agricultural production data in areas currently in India, Pakistan, and Bangladesh from 1901/02 to 2001/02. A salient feature of these estimates is that they correspond to current international borders. The British Empire of India, which was broken up in 1947 (in the so-called "Partition" of the Indian subcontinent), covered areas of what are now India, Pakistan, and Bangladesh. Although a rich accumulation of statistical documents is available from the colonial period, there has been no rigorous attempt to compile statistics corresponding to the current borders during a period that includes years prior to 1947. This is because the Partition broke up the Empire of India not only at the provincial level (for which data are readily available) but also at the district or lower levels of administration. This paper is an attempt to fill this gap, focusing on production in crop farming in India, Pakistan, and Bangladesh. Since neither the states of Pakistan and Bangladesh nor the concept of such nations existed during the early decades of the twentieth century, this exercise is hypothetical to some extent. Nevertheless, because farming activities are carried out on the soil of a region irrespective of its political designation, the estimates presented in this paper could shed new light on agricultural development in the three countries over the long term.

1   Introduction

This paper presents estimates for agricultural production data in areas currently in India, Pakistan, and Bangladesh from 1901/02 to 2001/02. A salient feature of these estimates is that they correspond to current international borders. The British Empire of India, which was broken up in 1947 (in the so-called "Partition" of the Indian subcontinent), covered areas of what are now India, Pakistan, and Bangladesh. Although a rich accumulation of statistical documents is available from the colonial period, there has been no rigorous attempt to compile statistics corresponding to the current borders during a period that includes years prior to 1947. This is because most of the existing statistics are not qualitatively comparable with those of the post-independence period, or they may cover territories different from the current international borders. The Partition broke up the Empire of India not only at the provincial level (for which data are readily available) but also at the district or lower levels of administration.

Due to the lack of such datasets, most of the existing studies that evaluated the economic performances of India, Pakistan, and Bangladesh focused on the period after 1947.[1] That focus does not imply that an analysis of a longer time period is not required, but reflects the difficulty in obtaining consistent datasets.

This paper is an attempt to fill this gap, focusing on production in the crop subsector in India, Pakistan, and Bangladesh over a period from 1901/02 to 2001/02.[2] In the standard national accounts, the primary sector is composed of agriculture, fishing, and forestry. The agricultural sector is further divided into several subsectors, whose classification differs from country to country.[3] In this paper, the agricultural sector is divided into the crop and livestock subsectors. The crop subsector includes output not only from major crops but also minor ones, including fodder crops and horticultural production. The livestock subsector includes the production of milk, meat, eggs, hides, and skin. Although it is important, the livestock subsector is not covered in this paper due to the unavailability of sufficient statistics for a reliable estimation of production during the colonial period.

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[1] See the references in Kurosaki (2009) for a list of existing studies.

[2] In this paper, a year implies the agricultural year beginning on July 1 and ending on June 30 of the next year. For example, "1901/02" is a period from July 1901 to June 1902 and would include, for example, rice harvests from September 1901 to January 1902 and wheat harvests from March 1902 to June 1902.

[3] Currently, these three countries employ different classifications. In India, there are no official statistics of value added separately for the crop subsector and the livestock subsector. However, the Government of India (B, various issues) reports the gross output values separately for the crop and livestock subsectors, and puts forth a detailed list of input values. Therefore, we can estimate value-added statistics separately for the two subsectors. In Pakistan, the agricultural value added is divided into the major crop, minor crop, and livestock subsectors (Government of Pakistan, B, various issues). The crop subsector discussed in this paper is the sum of the major crop and minor crop subsectors. In Bangladesh's national accounts, the agricultural sector is called "Agriculture and Forestry," which is further divided into the following subsectors: "Crops and Horticulture," "Animal Farming," and "Forest and Related Services" (Government of Bangladesh, B, various issues). The crop subsector discussed in this paper corresponds to the "Crops and Horticulture" subsector.

during the early decades of the twentieth century, this exercise is hypothetical to some extent. Nevertheless, because farming activities are carried out on the soil of a region irrespective of its political designation, the estimates presented in this paper could shed new light on agricultural development in the three countries because of the longer time periods it covers. This is the main contribution of this paper.

Section 2 describes the data sources used in our estimation and compilation. Since the estimation of the aggregate output is based on tallying the outputs of individual crops, Section 3 clarifies the procedure and assumptions adopted in estimating these crop-wise time series. Section 4 explains how we converted our final estimates for individual crops into aggregate figures. Section 5 describes the procedure for estimating time series of land and labor; these two production factors are indispensable in analyzing agricultural productivity. Section 6 summarizes the findings on long-term agricultural development based on the dataset. Section 7 concludes the paper.

2 Data

2.1 Data Sources

In August 1947, the Indian Empire, under British rule, was partitioned into India and (United) Pakistan. Before 1947, the Empire was subdivided into the provinces of British India and a large number of Princely States. The current international borders are different, not only from provincial and state borders, but also from the boundaries of districts (the basic administrative unit within a province). The three provinces of Assam, Bengal, and Punjab were divided between India and (United) Pakistan, with Muslim majority districts belonging to the latter. In the process, the two important provinces of Bengal and Punjab were each divided into two areas of comparable size, with several districts also divided.

For data sources for our estimation for the pre-1947 period, we started with the estimates by Sivasubramonian (2000) and Blyn (1966), because they provide estimates for agricultural production. However, Sivasubramonian's work is on undivided India, which includes areas currently in Pakistan and Bangladesh, while Blyn's work focuses on British India, which excludes Princely States but includes most areas currently belonging to Pakistan and Bangladesh.

To compile statistics that correspond to current international borders, we therefore needed to go back to the original sources on which Sivasubramonian (2000) and Blyn (1966) relied. These are all-India reports such as *Agricultural Statistics of India* and *Estimates of Area and Production of India*, published by the colonial government, and *Report on the Season and Crops* (*RSC*), issued by each provincial government. All of these reports that are available at the India Office Library in London were utilized in our data compilation. From these reports, we obtained rich information on agricultural production in all provinces of British India, although statistical information on the Princely States is limited in coverage and missing for many regions.

We attempted to link our pre-1947 estimates with the post-Partition data from the governments of India, (West) Pakistan, and Bangladesh (East Pakistan). *Agricultural Statistics* and *National Accounts Statistics* issued by these governments (India A-B, various issues; Pakistan A-B, various issues; Bangladesh A-B, various issues) were utilized for this purpose.

2.2 Crops Covered in the Dataset

As we went back to the earlier periods, both the availability and reliability of existing information on agricultural production declined. Therefore, following Kawagoe's suggestion (1998), this study does not attempt to estimate crop production statistics for all agricultural activities, but instead begins with the examination of the major agricultural commodities that are important in contemporary India, Pakistan, and Bangladesh, and for which detailed data on production and prices are available from the British period. The expansion of commodity coverage in the crop estimates is left to future research.

For India, considering the coverage of Sivasubramonian's (1960) important contribution to this field, data for eighteen crops were compiled.[4] These include foodgrains[5] (rice, wheat, barley, *jowar* [sorghum], *bajra* [pearl millet], maize, *ragi* [finger millet], and *gram* [chickpea]); oilseeds (linseed, sesamum, rape and mustard, and groundnut); and other crops (sugarcane, tea, coffee, tobacco, cotton, and jute and mesta). These crops currently comprise more than two-thirds of the total output value from the crop subsector and more than half the total output from agriculture, including the livestock subsector (India B, various issues); these numbers were even higher during the colonial period.

Pakistan's agricultural sector in its national accounts comprises subsectors of major crops, minor crops, and livestock. We compiled crop data for all twelve crops included in the major crops subsector: rice, wheat, barley, *jowar*, *bajra*, maize, and *gram* as foodgrains; and rape and mustard, sesamum, sugarcane, tobacco, and cotton as non-foodgrains. The major crops subsector currently occupies about 70% of value added from crops and about 40% of value added from agriculture (Pakistan B, various issues), and its share was higher during the colonial period.

For Bangladesh, fourteen crops were included: rice, wheat, barley, maize, and *gram* as foodgrains; linseed, sesamum, rape and mustard, and groundnut as oilseeds; and sugarcane, tea, tobacco, cotton, and jute as other crops. These crops currently account for more than 80% of the total

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[4]Sivasubramonian (2000) expanded the crop coverage of Sivasubramonian (1960) by adding indigo, fodder crops, and three other categories: "other foodgrains and pulses," "other oilseeds," and "other crops." Indigo is not included in this paper since it is no longer an important crop in the Subcontinent. The other four categories of crop groups are not included in this paper since Sivasubramonian's (2000) estimates for these crop groups are more or less the extrapolation of the eighteen crops already covered. We incorporated into our data compilation minor crops as a whole (see Subsection 4.2).

[5]"Foodgrains" are defined as crop groups containing cereals (e.g., rice, wheat, coarse grains, etc.) and pulses (e.g., chickpea, pigeon pea, etc.). The term is widely used in India, Pakistan, and Bangladesh in discussing the national food balance, since cereals and pulses comprise the most important part of local diets.

output value from crops in Bangladesh and about three-fourths of value added from agriculture, including the livestock subsector (Bangladesh B, various issues); their contribution was also higher during the colonial period. Since the colonial period, it has been common to distinguish between three major varieties of rice in Bangladesh: acreage and output are estimated separately for *aman* (the major paddy crop grown during the monsoon season and harvested in the winter), *aus* (the paddy crop grown during the early monsoon season), and *boro* (the paddy crop grown during the dry season).

3 Data Compilation for Individual Crops

3.1 Overview of the Estimation Procedure

A salient feature of this paper is that we compiled pre-1947 data that correspond to the current areas of India, Pakistan, and Bangladesh. Since these three countries were created from the British Empire of India, which was subdivided into the provinces of British India and a large number of Princely States, this was a difficult task. The current international borders are different, not only for provincial and native states, but also for districts (the basic administrative units within a province). The two important provinces of Bengal and Punjab were divided into India and (United) Pakistan, with Muslim majority districts belonging to the latter. During the process, several districts in Bengal and Punjab were also divided. Major portions of Sylhet District in Assam Province were merged with the eastern parts of Bengal to form East Pakistan (Bangladesh).

Considering this difficulty, our strategy was to follow the approach of Sivasubramonian (1960, 2000), who extrapolated official statistics of uncovered regions in Princely States and British Provinces in order to compile statistics for the whole of undivided India (i.e., the sum of India, Pakistan, and Bangladesh today). We first re-investigated his databases and subtracted the parts corresponding to Pakistan and Bangladesh as an intermediate step.

In the second step, we compiled independent estimates for areas of contemporary Pakistan and Bangladesh during the pre-1947 period using colonial statistics. Since several provinces were partitioned in 1947, we could not use the all-India statistics prepared by the colonial government. Instead, various issues of *RSC* for Punjab, Sind (or Bombay-Sind), the North-West Frontier Province (NWFP), Bengal, and Assam were used as the basic sources for data in this study. The provincial figures, thus obtained, were adjusted to include areas in Princely States and Tribal Areas.

In the third step, the estimates for areas of contemporary Pakistan obtained in the first step were replaced by those from the second step after the latter was shown to be superior. The estimates for areas of contemporary Bangladesh obtained in the second step were incomplete and not substantially different from those in the first step, and we maintained the first step estimates for Bangladesh. By subtracting the second-step Pakistan estimates and the first-step Bangladesh estimates from Sivasubramonian's (2000) estimates for undivided India, we obtained the final estimates for India.

In the fourth step, the first step Bangladesh estimates were adjusted for under- or over-reporting of crop production in Bengal during the colonial period. Without this adjustment, the time series in areas currently in Bangladesh would have shown a discontinuity that could not be justified even if we considered the turmoil caused by the Partition.

In the following subsections, key components of these steps are explained in more detail.

3.2 Dividing Sivasubramonian's Estimates into India, Pakistan, and Bangladesh

We started with Sivasubramonian's estimates for area and production of principal crops for undivided India from 1900/01 to 1946/47 (Sivasubramonian 2000: Appendix Table 3(a) and Appendix Table 3(b)). We started with his estimates because he fully utilized the largest amount of information contained in the official statistics, and because his procedure is the most transparent among earlier studies (Guha 1992; Yanagisawa 1996). Accepting official per-acre yields, he adjusted for uncovered areas and commodities. Although his procedure might bring in bias, especially in per-acre yields in some provinces, such as Bombay (Heston 1973, 1979) and Bengal (Islam 1978), such bias is likely to be small in the areas currently in Pakistan and is likely to be offset by the total of undivided India.

As an intermediate step to obtain separate data for India, Pakistan, and Bangladesh before 1947, Sivasubramonian's data were divided into three parts corresponding to the three countries as they exist today. Table 1 shows an example of divided rice areas. The Government of India (1948) compiled data on area and production for India, West Pakistan, and East Pakistan separately for the period from 1936/37 to 1945/46. However, several Princely States and unsurveyed areas of districts for which official data were not available were not included in this document, resulting in the underestimation of its total figures for undivided India (compare Columns 1 and 2 of Table 1). Assuming that the areas not covered in India (1948) are proportionally distributed among the three countries, we can divide the figures in Column 1 among the three countries. This is what we did for the period covered by the Government of India (1948).

For the remaining period, we first extrapolated the average distribution ratio (Columns 6, 7, and 8 of Table 1). Then we adjusted for historical changes of shares in Pakistani and Bangladeshi areas in undivided India using Blyn's (1966) estimates for crop area and output. Since Blyn (1966) covered British Provinces of India only, we approximated the weight for Pakistani areas by the weight for "Greater Punjab" (Punjab Province and the NWFP) and the weight for Bangladeshi areas by the weight for "Greater Bengal" (Bengal, Orissa, and Bihar). We converted these weights into indexes with the average for the period covered by India (1948) equal to unity (Columns 9 and 10). An obvious deficiency of this method is that Blyn (1966) reported regional production data for major producing regions only. In the example of rice areas in Table 3, data for Greater Punjab are not available. In such a case, the Blyn index was set to unity.

Continuing this procedure for all of the principal crops, Tables 2 through 7 were calculated for India, Pakistan, and Bangladesh separately. They are reported as intermediate estimates.

3.3 Independent Estimates for Areas in Pakistan and Bangladesh

Before 1947, areas currently in Pakistan fell on the western half of Punjab Province (West Punjab), Bahawalpur State, Sind Province (or Sind's part of Bombay-Sind Province for the period up to 1933/34), Khairpur State, the NWFP, and Baluchistan. All-India reports such as *Agricultural Statistics of India* and *Estimates of Area and Production of India* cannot serve our purpose since they usually give provincial data from which we cannot distinguish data for West Punjab from the total Punjab data and for Sind from the total Bombay-Sind data.

Therefore, our basic data source is the *RSC* issued by each provincial government. At the India Office Library, London, this report is available from 1901/02 to 1944/45 for Punjab, from 1903/04 to 1942/43 for Sind (Bombay-Sind), and from 1902/03 to 1944/45 for the NWFP.

On Partition in 1947, 15 of the total 29 districts in Punjab Province went to Pakistan, 12 went to India, and the two districts of Lahore and Gurdaspur were partitioned. In this paper, we allocated all the pre-1947 Lahore data to Pakistan and all the pre-1947 Gurdaspur data to India. We tried other procedures as well, but the results remained unchanged. This is reasonable since the majority of Lahore belonged to Pakistan and most of Gurdaspur belonged to India, and the remaining areas were close in acreage. Therefore, we adopted this simple procedure for its transparency. The Board of Economic Inquiry, Punjab (1950), compiled data for West Punjab based on the same assumption for 1901/02 through 1946/47. While this document was useful, we re-compiled data from the district level using original *RSC* reports.

The majority of Pakistan's economy is based in West Punjab (currently, its share in agricultural value added is more than half). Therefore, as long as statistical information for this part of the country is available, we can compile a proxy for the remaining areas by extrapolation, as explained below.

First, earlier issues (1901/02 to 1905/06) of Punjab's *RSC*s did not have information on per-acre yields or production. For these years, we estimated per-acre yields as proportional to those obtained from Sivasubramonian (2000). The proportion was calculated for each crop as the average from 1906/07 to 1911/12. In this way, we compiled complete time-series data of areas and the production of twelve crops in West Punjab from 1901/02 to 1946/47.

Second, we filled in missing values in Sind and the NWFP in a way similar to the one described in the previous paragraph. For example, output figures for Sind are not available in *RSC*s before 1905/06. Figures for Bombay-Sind are available from all-India statistics, but we feared that per-acre yields in Sind and in Bombay fluctuated differently and that per-acre yields in Bombay are unreliable (Guha 1992; Heston 1973, 1979, 1983). Therefore, rather than using average figures in Bombay-Sind, we extrapolated per-acre yields of West Punjab to Sind. Geographically and agronomically, Sind is closer to West Punjab than to Bombay. We estimated per-acre yields in Sind as proportional to those in West Punjab, and the proportion was calculated for each crop as the average

from 1906/07 to 1911/12. Continuing in this way, we compiled complete time-series data of areas and production of twelve crops in Sind and the NWFP from 1901/02 to 1946/47. Production data thus compiled are available at the district level for Punjab (West and East), Sind, and the NWFP. Since they are too detailed, they are not reported in this paper.

Finally, adjustment for the Princely States and Tribal Areas was required to make pre-1947 statistics comparable to those after 1947. Our assumption for this purpose is that areas and production of each crop in Bahawalpur State fluctuated in a way similar to those in West Punjab, those in Khairpur State fluctuated in a way similar to those in Sind, and those in Baluchistan and Tribal Areas of the NWFP fluctuated in a way similar to those in the NWFP, except for rice in Baluchistan, which was assumed to comove with rice in Sind. The proportion ratios were calculated for each crop, separately for areas and production, and for each region, using the average from 1947/48 to 1951/52 obtained from Pakistan's official statistics (West Pakistan 1964). This adjustment is not fully satisfactory because the agricultural weights for the states of Bahawalpur and Khairpur during the early twentieth century might have been quite different from those in the mid-twentieth century. At the same time, official statistics for these states do not exist during the early twentieth century. Correction of this deficiency is left to future research. After adjusting for the Principal States and Tribal Areas in this way, complete time-series data of areas and production of twelve crops in the areas under Pakistan today were compiled from 1901/02 to 1946/47.

A similar procedure for areas currently in Bangladesh was applied. Our basic data source for areas and production of principal crops is *RSC* issued by provincial governments of Bengal and Assam. At the India Office Library, London, this report is available from 1901/02 to 1940/41 for Bengal, from 1905/06 to 1910/11 for Eastern Bengal and Assam, and from 1901/02 to 1904/05 and from 1911/12 to 1921/22 (lacking 1916/17) for Assam. Due to this lack of reports for several years and also due to the discontinuity in reporting designs in Assam, we were not able to compile complete time-series data of areas and production of fourteen crops (sixteen crops if paddy varieties are distinguished) in the areas under Bangladesh today. Instead, we obtained the incomplete time series from 1931/32 to 1940/41 of thirteen crops (data on groundnuts were not available in *RSC*) in eastern parts of Bengal that are different from areas currently in Bangladesh.

3.4 Final Crop Estimates for India, Pakistan, and Bangladesh

Comparing our independent estimates for the areas currently in Pakistan with those in Tables 4 and 5, we found that the two series were reasonably close. They move very closely for wheat, *bajra*, barley, maize, *gram*, sugarcane, rape and mustard, and cotton. These crops are those for which the Blyn index is available for "Greater Punjab." For the remaining crops, correlation between the two series is lower, especially for earlier years, suggesting that the absence of the Blyn index yielded a bias.

We also compared our independent estimates with the production statistics from just after the

Partition and found that our independent estimates are more smoothly linked than those in Tables 4 and 5. Furthermore, descriptive texts of each year's *RSC* confirmed that the movement of areas and production in Pakistan were closer to those that appeared in our independent estimates. For these reasons, we adopted our independent estimates as our "final" estimates for Pakistani areas (Tables 10 and 11).

We then compared our independent estimates for eastern parts of Bengal with those in Tables 6 and 7. From 1931/32 to 1940/41, the trends and annual fluctuations in the area and production of fourteen crops were very similar between our independent estimates and those in Tables 6 and 7. This is because the Blyn indexes are, except for very minor crops, mostly available for the areas currently in Bangladesh. Therefore, considering the difficulty of obtaining complete time-series data of areas and production in Bangladesh before 1947, the first step estimates reported in Tables 6 and 7 are a useful proxy to calculate final estimates for India.

Our final estimates for India were obtained as follows. We added our intermediate estimates for India and Pakistan, from which we subtracted our final estimates for Pakistan areas (Table 2 + Table 4 – Table 10 for areas; Table 3 + Table 5 – Table 11 for production).

To finalize our estimates for Bangladesh, we adjusted for under- or over-reporting of crop production in Bengal during the colonial period, which has been pointed out by several authors.[6] Islam (1978) convincingly showed that official statistics of agriculture in colonial Bengal contained several biases. We thus carefully examined his "revision factors." When we found that our first-step estimates for Bangladesh were not linked as closely with those for just after the Partition, we tried Islam's "revision factors" and examined whether the adjustment make the 1947 link smoother. It was found that the adjusted series were smoother over the Partition than the non-adjusted ones in such cases. The specific adjustment factors we employed for area and production were as follows: rice, 1.13 (up to 1940/41), 1.09 (1941/42 and 1942/43), and 1.06 (1943/44); wheat, 1.13 (up to 1941/42), 1.07 (1942/43), 1.02 (1943/44); barley area, 1.44 (up to 1941/42), 1.32 (1942/43), 1.37 (1943/44), 0.9 (1944/45 and 1945/46); barley production, 0.9 (1944/45 and 1945/46); *gram*, 1.85 (up to 1941/42), 1.32 (1942/43), 1.36 (1943/44), 0.9 (1944/45 and 1945/46); sesamum, 0.78 (up to 1943/44); rape and mustard, 0.77 (up to 1941/42), 0.63 (1942/43), 0.68 (1943/44); tobacco, 0.51 (up to 1941/42), 0.54 (1942/43), 0.55 (1943/44). These figures are mostly Islam's (1978) "revision factors" for "Dacca Division" or for "All Bengal."

To distribute the total rice area thus obtained among three varieties, *aman*, *aus*, and *boro*, we used the area distribution shares of rice among these crops, which were calculated using estimates by

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[6] A similar adjustment is required for the third-step estimates for India since they include production from West Bengal. However, since the share of West Bengal in Indian agriculture is small (less than 5%) and Islam's (1978) revision factors are in the magnitude of a few percentage points, the adjustment for West Bengal within India did not matter. Considering the difficulty in correctly identifying the share of West Bengal in the pre-1947 estimates for areas currently in India in the third-step estimates, we did not adjust the third-step estimates for India to control for the bias in Bengal's agricultural statistics.

Islam (1978). Regarding the distribution of the total rice output into the three varieties, the total output was allocated to the three varieties so that the per-acre output of the three varieties was proportional to the per-acre output calculated using estimates by Islam (1978).

Our final estimates after these compilation exercises are reported for major crops in areas currently in India (Tables 8 and 9), Pakistan (Tables 10 and 11), and Bangladesh (Tables 12 and 13), together with data for the post-1947 period. Our estimates for the pre-1947 period are approximately comparable in their geographical coverage to data for the post-independence period. It should be noted, however, that our pre-1947 estimates are not "final" in a definite sense, but are subject to further refinement.

The post-1947 data in these tables are based on government statistics. Figures are taken from the latest issues of India (A, various issues), Pakistan (A, various issues), and Bangladesh (A, various issues), with apparent typo errors corrected and units converted into standard ones. For Indian data, the official statistics of India (A, various issues) do not cover the two years of 1947/48 and 1948/49 in a comparable way. Therefore, figures for these years were compiled using figures reported in India (D, various issues).[7]

Our dependence on official statistics does not imply that they are free of errors, but only reflects our assumption that such errors are less substantial than those in the pre-1947 period. In all three countries, agricultural statistics in recent years have become more reliable than in the 1950s and 1960s, mostly due to the wide adoption of scientific crop-cutting surveys (India 1987; Yanagisawa 1996; Kurosaki 1997).

4 Estimation of Aggregate Output

4.1 Aggregating Output Values from Major Crops

Although the data in Tables 8 through 13 for individual crops are useful, data on aggregate output may be required in investigating the overall dynamics of the agricultural sector. Statistics on areas under individual crops can be aggregated *per se*. This is a measure of land input, and we denoted it by A'^k_t for year t and country k.

Statistics on output quantity of individual crops can be aggregated using value-based weights to obtain an index of real output value. For this purpose, we estimated implicit prices for 1938/39, 1960/61 (1959/60 for Pakistan and Bangladesh), and 1980/81 by dividing the real output value of each

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[7]The figures for 1947/48 and 1948/49 originally reported in India (D, 1949 and 1950 issues) did not include information for a few non-reported areas. For area statistics in these two years, we adopted those reported in India (D, 1951-52 issue). The production data were estimated by multiplying the area statistics thus obtained by yield data estimated from India (D, 1949 issue). Since yield statistics in India (D, 1951-52 issue) include a number of apparently incorrect figures, we extrapolated the yield statistics reported in India (D, 1949 issue) to the non-reported areas using coefficients obtained from India (A, 1971 issue with revised estimates for 1950/51 to 1953/54).

commodity in constant prices by its production quantity.[8] The 1938/39 prices are taken based on the study by Sivasubramonian (2000), who used the year as the base during the pre-Partition period because there were few exogenous disturbances to prices in that year. The 1960 prices and the 1980/81 prices are taken from national account statistics (India B, various issues; Pakistan B, various issues; Bangladesh 1993).

Since the three areas currently designated as India, Pakistan, and Bangladesh formed a single national market during the period, we used the same prices for all areas in aggregating crop outputs when we refer to estimates based on the 1938/39 prices. For similar reasons, we used the same prices for areas currently in Pakistan and Bangladesh in aggregating crop outputs when we refer to estimates based on the 1960 prices. When we refer to estimates based on the 1980/81 prices, we used different prices for each of the areas in aggregating crop outputs.

These implicit prices are reported in Table 14. Q_t^k denotes the gross output values of the crops aggregated using these constant prices in period t and country k (k = India, Pakistan, Bangladesh). Real output values from major crops thus obtained are reported in Table 15 for India, Table 16 for Pakistan, and Table 17 for Bangladesh.

4.2 Conversion to the Agricultural Value Added

From the estimation above, we obtained the Q_t^k time series. However, this measure is not ideal for the analysis of long-term agricultural development. What we need is the estimates for the value added from the crop subsector, denoted by Y_t^k.

To convert Q_t^k into Y_t^k, the output values from minor crops must be added, and the value of inputs such as seeds, chemical fertilizer, pesticides, fuels, and irrigation costs must be deleted. The neglect of the intermediate inputs is especially problematic, since the ratio of costs of modern inputs to the total output value has been increasing in recent years, reflecting the modernization of agriculture and the spread of "Green Revolution" technology.

We define two intermediate parameters, S_{1t}^k and S_{2t}^k. S_{1t}^k is the share of values attributed to major crops in the total output values from all crops, and S_{2t}^k is the share of value added in the total output values. Then by definition,

$$Y_t^k = Q_t^k S_{1t}^k S_{2t}^k. \tag{1}$$

Our strategy is to estimate the time series for S_{1t}^k and S_{2t}^k.

We began with estimates by Sivasubramonian (2000). From his estimates for the total and

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[8]These prices are "implicit," because even at the level of individual commodities reported in this paper, harvest prices varied, reflecting differences by variety and region.

individual crop values, we calculated S_{1t}^k for undivided India. Then, for India, Pakistan, and Bangladesh, we proportionally adjusted the time series so that the average of S_{1t}^k in the last five years before the Partition was the same as that in the first five years after the Partition. S_{1t}^k after the Partition was obtained from government agricultural statistics.

Regarding S_{2t}^k, we adopted a similar strategy. From Sivasubramonian's (2000) estimates of the value added and the total crop values, we calculated S_{2t}^k for undivided India, then adjusted for each area so that the time series had the same average in the five-year periods before and after the Partition.[9] S_{2t}^k after the Partition is available from official sources with detailed input classifications.

Tables 15 through 17 show the two share parameters. The time series of S_{2t}^k shows that all three countries had no trends until the Partition, then a declining trend occurred after the Partition, first in Pakistan during the first half of the 1960s, then in India in the second half of the 1960s, and finally in Bangladesh in the mid-1980s. The time contrast shows the difference in the timing each country experienced in terms of intensification of modern agricultural inputs.

Our estimates for S_{1t}^k and S_{2t}^k could contain three types of measurement error. First, the estimates are based on the fixed price so that they are legitimate estimates for the exact year whose prices are used for aggregation. For other years, the estimates are only approximations, since both S_{1t}^k and S_{2t}^k correspond to the shares calculated each year using the current price. Second, for the pre-Partition period, the measurement error in Sivasubramonian (2000) in calculating minor crop share and input cost share is transferred to our estimates. Third, for the pre-Partition period, we introduced another potential source of measurement error by assuming that the changes in the two shares over time were proportionally the same in India, Pakistan, and Bangladesh. In other words, our estimates have ignored area-specific disturbances in the two shares before 1947.

While the time series of Y_t^k (value added from the crop subsector) could be subject to these three types of measurement error, the time series of Q_t^k (total output value in real terms from major crops) is free of them. Therefore, in analyzing long-term changes in agriculture in the three regions, it is desirable to use both Y_t^k and Q_t^k for a robustness check. Kurosaki (2010) did this and found his results were robust.

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[9] In his estimation of intermediate inputs, Sivasubramonian (2000) included seeds, manure, marketing costs, chemical fertilizer, pesticides, irrigation costs, energy and fuel, and depreciation of equipment. Although the list of cost items is impressive, the majority of the items were estimated as a fixed proportion of the total output values from crops. Therefore, his methodology gives justification to our approach of using S_{2t}^k.

5 Estimation of Cultivated Land and Agricultural Labor Force

5.1 Cultivated Land

The most important production factor in agriculture is land. This subsection briefly examines our procedure to estimate the total cultivated area, denoted by A_t^k. In the terminology used in British India, "Reported area" is divided into five categories: "Forest," "Not available for cultivation," "Cultivable waste," "Current fallow," and "Net area sown." As a part of the net area sown, "Area sown more than once" was most often reported. We define our measure of land, that is, the cultivated land, as the sum of "Current fallow" and "Net area sown."

After the Partition, the classification became slightly different among India, Pakistan, and Bangladesh. We applied the definition for the colonial period to the post-Partition period. Our estimates for the post-Partition period were based on government statistics from the three countries (India A-B, various issues; Pakistan A-B, various issues; Bangladesh A-B, various issues), but we corrected for type errors and errors in converting units.

To estimate A_t^k in the pre-Partition period, our strategy was to estimate S_{3t}^k (the share of the cultivated area in the total reported area in year t) and multiply it by the total area adjusted for the historical increase in reporting coverage. Regarding S_{3t}^k, we first compiled the area statistics in the five categories mentioned above for the total British India, the British Province of Punjab, and the British Province of Bengal, from which we calculated the shares of the cultivated area in the total reported area. We adopted these three series as the estimates for S_{3t}^k (k = India, Pakistan, Bangladesh).

Regarding the total area adjusted for the historical increase in reporting coverage, we used adjustment factors calculated from Blyn's (1966) estimates for land areas in British India. He adjusted for the historical increase in reporting coverage. We used the total British India data to obtain the adjustment factor for India, the Greater Punjab data to obtain the adjustment factor for Pakistan, and the Greater Bengal data to obtain the adjustment factor for Bangladesh. The resulting time series for Bangladesh before 1947 shows a trend similar to the one found by Islam (1978), and the resulting time series for Pakistan before 1947 shows a trend similar to the one found by Islam (1997) and Hirashima (1978).

The final estimates for the cultivated land are shown in Tables 15 through 17. Both areas currently in India and areas currently in Pakistan witnessed a sustained increase in the cultivated land throughout the twentieth century. The speed of area expansion was higher in Pakistan than in India. Comparing pre- and post-Partition periods, the speed of area expansion was higher in the pre-Partition period than in the post-Partition period in both countries. In sharp contrast, areas currently in Bangladesh witnessed a weak decline throughout the twentieth century.

It is possible that our estimates for the cultivated area (A_t^k) are subject to measurement error due to the estimation process described above. The sum of areas under major crops (A'_t^k) could be less subject to such measurement error. For this reason, as a measure of land productivity, we can use two

measures of Y_t^k/A_t^k and Q_t^k/A'^k_t to examine the robustness of any analysis focusing on land productivity. Kurosaki (2010) did this and found that his results were robust.

5.2 Agricultural Labor Force

Another critical factor in agricultural production is labor. Since it is impossible to estimate the actual labor input in terms of person-hours for historical periods, we attempted to estimate the number of persons engaged in agriculture (L_t^k) as our main measure of labor input. As a related measure potentially subject to less measurement error, we also estimated the total population (L'^k_t). The data source of our estimates is population census, which started in the Subcontinent in 1871. Since then, the census has been conducted every ten years to collect basic information on the population and occupations. The tradition was continued after 1947 in India, Pakistan, and Bangladesh.[10]

Regarding L'^k_t (total population), Davis (1951) estimated population in areas currently in India, Pakistan, and Bangladesh for census years before the Partition. There exist official estimates for the pre-Partition period, mostly similar to Davis' estimates, which have been published by government sources recently (India C-D, various issues; Pakistan C, various issues; Bangladesh B, various issues). Therefore, we adopted these official estimates and extrapolated exponentially for inter-census years.

Regarding the agricultural labor force, the majority of farmers and agricultural laborers in the Subcontinent combine crop work and livestock care in their holdings. The number of persons fully engaged in fishing or forestry is also negligible. For these reasons, the population census usually reports one figure under the category of "Agriculture" when it shows the labor force distribution by economic sectors. We defined the number of such people as the agricultural labor force (L_t^k). Even then, occupational classification in the population census during the pre-Partition period changed inconsistently from census to census. However, retrospective reclassification based on a consistent classification was published as a part of the Census of India 1961, dating back to 1901 (Census of India 1961, Paper No. 1 of 1967). Based on this document, Sivasubramonian (2000) and Krishnamurty (1983) estimated the size of the agricultural labor force for undivided India for census years before 1947.

Building on these works, we estimated L_t^k in census years before 1947 as the multiplication of L'^k_t (total population) by S_{4t}^k (crude activity rate, which is the share of labor force in the total population) and S_{5t}^k (the share of agriculture in the total labor force). First, S_{4t}^k for undivided India, calculated from Sivasubramonian (2000), was applied to areas currently in India; the same parameter, adjusted for regional differences in occupational patterns shown for Punjab by Krishnamurty (1983), was applied to areas currently in Pakistan; the same parameter, adjusted for regional differences shown for Bengal by Krishnamurty (1983), was applied to areas currently in Bangladesh. Second, S_{5t}^k

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[10] There are exceptions. In Bangladesh in 1971, the census was not feasible due to its war for independence from (West) Pakistan, and was postponed to 1974. In Pakistan, after the 1981 Census, the census was conducted only in 1998 due to ethnic conflicts.

for undivided India, calculated from Sivasubramonian (2000), was applied to areas currently in India; the same parameter was adjusted exponentially for areas currently in Pakistan and Bangladesh so that it linked with the post-Partition labor force statistics smoothly. Third, by multiplying L'^k_t, S_{4t}^k, and S_{5t}^k, we obtained estimates for L_t^k for census years before 1947. Finally, we extrapolated exponentially for inter-census years to obtain the complete time series estimates for L_t^k.

As this compilation process clearly shows, our measure of L_t^k is a smooth time series. Since the 1980s, National Sample Surveys (NSS) in India and Labor Force Surveys (LFS) in Pakistan and Bangladesh have been conducted regularly as large-scale sample surveys. Time series of L_t^k from NSS or LFS show annual fluctuations in the order of a few percentage points. Some of the fluctuations could be due to sampling error, but the rest could reflect actual short-term changes in occupational choice due to macroeconomic booms and recessions. Our measure of L_t^k is best interpreted as a permanent agricultural labor force in a year, and not subject to short-term fluctuations.

Tables 15 through 17 show the final estimates for the agricultural labor force (L_t^k) as well as the total population (L'^k_t). Both show a continuous increase in all areas throughout the twentieth century. Looking at the two series more closely, the speed of increase was lower for L_t^k than for L'^k_t, especially after 1947. This reflects the continuous decrease in S_{5t}^k (the share of agriculture in the total labor force) during the post-Partition period. The share was more than 70% in all three countries with no trend before the Partition, while it declined to 59% in India, 42% in Pakistan, and 50% in Bangladesh in 2001/02.

6   Long-term Growth in Agriculture in India, Pakistan, and Bangladesh

The estimates presented in Tables 15 through 17 confirm the findings from the existing studies for undivided India and show new findings regarding the regional contrast among areas currently in India, Pakistan, and Bangladesh. In this section, the results of analyzing long-term growth in agriculture using the dataset are briefly discussed.

First, Kurosaki (2009) focused on agricultural growth performance shown in the major crops data. He found that the dynamics of Q_t^k before 1947, evaluated at the 1938/39 price, are consistent with the dynamics of real value-added estimates by Sivasubramonian (2000) for undivided India—the overall growth rates during the pre-1947 period reported by Sivasubramonian (2000) lie within the range of the growth rates based on our estimates of Q_t^k for India, Pakistan, and Bangladesh. Using these data, Kurosaki (2009) showed a discontinuity between the pre- and post-1947 periods in all of the three countries—when Q_t^k evaluated at the 1960 price was used, the growth rates of Q_t^k after 1947 were higher than those before 1947 by 2.29% in India, by 2.18% in Pakistan, and by 2.24% in Bangladesh; the growth rates of Q_t^k/L'^k_t (output per capita) after 1947 were higher by 1.00% in India, by 0.70% in Pakistan, and by 0.94% in Bangladesh; the growth rates of Q_t^k/A'^k_t (per-acre productivity

from major crops) after 1947 were higher by 2.23% in India, by 1.91% in Pakistan, and by 1.60% in Bangladesh. Examining the individual crop statistics, Kurosaki also showed that crop shifts contributed to the aggregate land productivity growth, especially during periods with limited technological breakthroughs, and such contributions were greater in India and Pakistan than in Bangladesh.

Kurosaki (2010) investigated the growth performance of agriculture in India, Pakistan, and Bangladesh in the twentieth century, using more standard measures of output (Y_t^k), land productivity (Y_t^k/A_t^k), and labor productivity (Y_t^k/L_t^k). The results also showed a sharp discontinuity between the pre- and post-independence periods in all three countries: growth rates in total output, land productivity, and labor productivity rose from zero or very low figures to significantly positive levels that were sustained throughout the post-independence period. Kurosaki (2010) found that the relative gain (regional difference in the acceleration of growth rates, a sort of triple difference) was larger in Bangladesh than in India and larger in India than in Pakistan; this has been concealed in a usual double-difference approach that shows that the level of growth rates was higher in Pakistan than in India and higher in India than in Bangladesh. The improvement in aggregate land productivity explained most of this output growth, of which approximately one-third was attributable to shifts to more lucrative crops.

7 Conclusion

In this paper, we presented estimates of historical data of agricultural production in areas currently in India, Pakistan, and Bangladesh, which correspond to the current international borders. Our new estimates were found to be linked to post-1947 statistics smoothly. The longer time period of the estimates sheds new light on agricultural development in the Indian Subcontinent. For example, the new dataset shows a sharp discontinuity between the pre- and post- independence periods in all three countries, but the relative gain (regional difference in the acceleration of growth rates) was larger in Bangladesh than in India and larger in India than in Pakistan. The improvement in aggregate land productivity explained most of this output growth, and a large share was attributable to shifts to more lucrative crops.

Further efforts are needed to improve the estimates shown in this paper, since they are preliminary. First, there is room for improving the precision of individual crop data.

Second, the conversion of the output values from major crops to cover all crops in agriculture contains measurement error. It is worth attempting long-term production statistics of individual minor crops. A more dynamic development of agricultural transformation might occur in minor crops, especially fruits and vegetables, the demand for which is more income elastic than the demand for cereal. This aspect is especially important in analyzing diversification and productivity issues.

Similarly, the input side of production in the dataset needs to be improved. It is left to future research to estimate long-term production statistics of individual minor crops and individual inputs in agriculture.

Third, livestock activities, which are an indispensable part of agriculture in South Asia, are ignored in this paper. Kurosaki (1998) quantified its economic importance in the contemporary farming system in Pakistan. Exploration of the existing data for livestock and fodder acreage during the colonial period is called for.

Finally, price factors could be examined in a different way. Aggregation of different crops at fixed prices to obtain a real index might be inappropriate in investigating the effects of land allocation adjustments on short-term changes in relative prices on agricultural productivity. The opposite method, aggregation at current prices indexed by a single deflator to obtain a real index or use of a chain index of prices, would reflect a more precise picture of agricultural development. Incorporating regional price variation within each country is also left to future research.

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Table 1. Estimation Procedure to Divide Sivasubramonian's Estimates for Undivided India into India, Pakistan, Bangladesh: A Case of Rice Area (in 1000 ha)

	Undivided India	Underestimated data (in million ha)				Ratio to undivided India			Index from Blyn		Estimated shares to undiv. India			Estimated area		
		Undivided India	India	Pakistan	Bangladesh	India (6)	Pakistan (7)	Bangladesh (8)	Greater Punjab (9)	Greater Bengal (10)	India (11)= 1- (12)-(13)	Pakistan (12) =(7)*(9)	Bangladesh (13) =(8)*(10)	India (14) =(1)*(11)	Pakistan (15) =(1)*(12)	Bangladesh (16) =(1)*(13)
	(1)	(2)	(3)	(4)	(5)	=(3)/(2)	=(4)/(2)	=(5)/(2)								
1900/01	26503					0.738	0.026	0.236	1.000	1.120	0.710	0.026	0.264	18805	689	7009
1901/02	27098					0.738	0.026	0.236	1.000	1.090	0.717	0.026	0.257	19421	705	6972
1902/03	27741					0.738	0.026	0.236	1.000	1.102	0.714	0.026	0.260	19803	721	7216
1903/04	26734					0.738	0.026	0.236	1.000	1.101	0.714	0.026	0.260	19090	695	6948
1904/05	28155					0.738	0.026	0.236	1.000	1.152	0.702	0.026	0.272	19763	732	7660
1905/06	28064					0.738	0.026	0.236	1.000	1.090	0.717	0.026	0.257	20112	730	7222
1906/07	28141					0.738	0.026	0.236	1.000	1.103	0.714	0.026	0.260	20080	732	7329
1907/08	29233					0.738	0.026	0.236	1.000	1.077	0.720	0.026	0.254	21042	760	7431
1908/09	28035					0.738	0.026	0.236	1.000	1.062	0.723	0.026	0.251	20279	729	7027
1909/10	30219					0.738	0.026	0.236	1.000	1.108	0.712	0.026	0.262	21528	786	7906
1910/11	30141					0.738	0.026	0.236	1.000	1.108	0.713	0.026	0.261	21477	784	7880
1911/12	29336					0.738	0.026	0.236	1.000	1.123	0.709	0.026	0.265	20795	763	7778
1912/13	30062					0.738	0.026	0.236	1.000	1.064	0.723	0.026	0.251	21729	782	7551
1913/14	29140					0.738	0.026	0.236	1.000	1.070	0.721	0.026	0.253	21023	758	7359
1914/15	29325					0.738	0.026	0.236	1.000	1.071	0.721	0.026	0.253	21149	763	7413
1915/16	29866					0.738	0.026	0.236	1.000	1.071	0.721	0.026	0.253	21536	777	7553
1916/17	30864					0.738	0.026	0.236	1.000	1.048	0.727	0.026	0.247	22428	803	7633
1917/18	30590					0.738	0.026	0.236	1.000	1.033	0.730	0.026	0.244	22334	796	7461
1918/19	29246					0.738	0.026	0.236	1.000	1.068	0.722	0.026	0.252	21110	761	7376
1919/20	30191					0.738	0.026	0.236	1.000	1.047	0.727	0.026	0.247	21945	785	7460
1920/21	30040					0.738	0.026	0.236	1.000	1.042	0.728	0.026	0.246	21872	781	7387
1921/22	30460					0.738	0.026	0.236	1.000	1.061	0.723	0.026	0.251	22036	792	7632
1922/23	30756					0.738	0.026	0.236	1.000	1.055	0.725	0.026	0.249	22300	800	7656
1923/24	29212					0.738	0.026	0.236	1.000	1.027	0.732	0.026	0.242	21369	760	7083
1924/25	29908					0.738	0.026	0.236	1.000	1.039	0.729	0.026	0.245	21798	778	7332
1925/26	30359					0.738	0.026	0.236	1.000	1.023	0.733	0.026	0.241	22239	790	7330
1926/27	29427					0.738	0.026	0.236	1.000	1.007	0.736	0.026	0.238	21665	765	6997
1927/28	28805					0.738	0.026	0.236	1.000	0.984	0.742	0.026	0.232	21366	749	6690
1928/29	30544					0.738	0.026	0.236	1.000	1.027	0.732	0.026	0.242	22346	794	7404
1929/30	29577					0.738	0.026	0.236	1.000	1.017	0.734	0.026	0.240	21708	769	7100
1930/31	30149					0.738	0.026	0.236	1.000	1.006	0.736	0.026	0.238	22202	784	7163
1931/32	30779					0.738	0.026	0.236	1.000	1.038	0.729	0.026	0.245	22439	800	7539
1932/33	30191					0.738	0.026	0.236	1.000	1.022	0.733	0.026	0.241	22119	785	7286
1933/34	30412					0.738	0.026	0.236	1.000	1.018	0.734	0.026	0.240	22311	791	7310
1934/35	29985					0.738	0.026	0.236	1.000	1.014	0.735	0.026	0.239	22025	780	7180
1935/36	30203					0.738	0.026	0.236	1.000	0.995	0.739	0.026	0.235	22323	785	7095
1936/37	30770	29.9	22.3	0.7	6.8	0.747	0.025	0.228	1.000	1.003	0.746	0.025	0.229	22956	771	7043
1937/38	30938	29.9	22.3	0.7	6.8	0.747	0.025	0.228	1.000	0.990	0.749	0.025	0.226	23175	775	6988
1938/39	31255	29.9	22.3	0.7	6.8	0.747	0.025	0.228	1.000	0.980	0.751	0.025	0.224	23484	783	6988
1939/40	31613	30.1	22.5	0.8	6.8	0.747	0.026	0.227	1.000	1.000	0.747	0.026	0.227	23627	808	7178
1940/41	31108	29.6	22.3	0.8	6.5	0.754	0.027	0.219	1.000	1.000	0.754	0.027	0.219	23464	843	6800
1941/42	31344	29.8	21.9	0.8	7.1	0.735	0.026	0.239	1.000	1.000	0.735	0.026	0.239	23030	825	7490
1942/43	31846	30.4	22.5	0.7	7.2	0.740	0.024	0.235	1.000	1.000	0.740	0.024	0.235	23581	773	7493
1943/44	34378	32.8	23.8	0.9	8.1	0.725	0.027	0.248	1.000	1.000	0.725	0.027	0.248	24923	930	8525
1944/45	35505	34.0	24.4	0.9	8.7	0.717	0.026	0.257	1.000	1.000	0.717	0.026	0.257	25467	920	9118
1945/46	34219	32.7	23.5	0.9	8.2	0.720	0.029	0.252	1.000	1.000	0.720	0.029	0.252	24631	981	8606
1946/47	34591					0.738	0.026	0.236	1.000	1.026	0.732	0.026	0.242	25315	900	8377

Sources: (1) = Appendix Table 3(a) of Sivasubramonian (2000); (2) to (5) = India (1948); (9) and (10) = Calculated from data reported in Blyn (1966, Appendix Table 3A).

Table 2. Intermediate Estimates for Area Under Principal Crops in Areas in Contemporary India, 1900/01 to 1946/47

(1000 ha)

	Rice	Wheat	Jowar	Bajra	Barley	Maize	Ragi	Gram	Linseed	Sesamum	Rape and mustard	Ground-nut	Sugar-cane	Tea	Coffee	Tobacco	Cotton	Jute
1900/01	18805	7114	12661	7687	3075	2652	2327	5009	1328	2071	1379	131	940	177	106	293	5196	231
1901/02	19421	7182	12310	7200	2675	2805	2380	4965	1397	1956	1316	193	928	175	99	292	5367	249
1902/03	19803	7211	13272	7318	2441	2843	2350	5087	1455	2333	1709	219	893	178	91	297	6020	232
1903/04	19090	8829	11850	7261	3138	2758	2272	5496	1881	2490	1772	211	878	178	93	302	6681	244
1904/05	19763	8901	12802	5448	3115	2698	2243	5312	1949	2104	1788	204	928	178	85	288	7306	314
1905/06	20112	7798	11607	6078	2985	2640	2244	4886	1486	1917	1605	217	845	179	83	314	8044	344
1906/07	20080	8684	12094	7752	3153	2778	2335	5857	1660	1946	1770	277	913	178	83	323	8315	384
1907/08	21042	6465	13079	7823	3151	2835	2773	3031	985	2182	1495	326	1121	181	82	300	7963	437
1908/09	20279	7771	14258	8481	3284	3052	2728	4949	1365	2199	1718	380	831	198	83	300	7240	314
1909/10	21528	8446	13085	8484	3349	3121	2789	5656	1436	2403	1865	401	781	192	81	340	7551	317
1910/11	21477	9330	12746	8075	3284	2888	2685	6104	1699	2262	1859	380	798	199	82	346	8393	323
1911/12	20795	9232	10678	6750	3659	2529	2654	6400	2278	2087	2030	478	907	203	87	326	7919	342
1912/13	21729	8964	12287	8532	3189	2852	2772	5610	1908	2211	1911	519	947	210	87	318	8038	327
1913/14	21023	8384	12515	8035	3046	2790	2675	4145	1400	2231	1859	828	936	215	83	319	8876	320
1914/15	21149	9367	12655	8593	3268	2816	2652	6151	1503	2459	2049	954	837	220	89	347	8900	370
1915/16	21536	8952	13842	7785	3367	3048	2667	5885	1534	2232	1927	624	876	224	85	351	6669	262
1916/17	22428	9644	13338	8203	3378	2973	2621	6735	1641	2259	1970	919	879	229	81	360	8133	298
1917/18	22334	10389	12156	6813	3664	2912	2689	7292	1839	1848	2184	771	1034	236	85	327	9232	301
1918/19	21110	6825	12739	5776	2713	2750	2435	3653	933	1554	1461	570	1054	239	87	315	7650	275
1919/20	21945	8795	15148	7591	3118	3026	2865	5603	1351	1840	1808	648	964	245	83	326	8210	313
1920/21	21872	7619	14425	6348	2664	2841	2707	4393	1006	1980	1511	820	910	249	83	297	7490	276
1921/22	22036	8080	15492	8494	3032	2995	2666	6372	1303	2136	1717	835	849	250	82	364	6713	167
1922/23	22300	8897	14791	7515	3075	2821	2711	7266	1486	1854	1779	1015	962	250	82	345	8011	198
1923/24	21369	8980	14493	7735	3078	2734	2720	6576	1653	1813	1813	1060	1044	251	81	329	8530	307
1924/25	21798	9239	15015	6975	2951	2527	2669	7330	1634	1892	1878	1116	905	251	80	344	9635	305
1925/26	22239	8771	13856	7174	2793	2546	2667	6472	1664	1735	1662	1556	966	256	81	353	9885	343
1926/27	21665	9091	14078	7389	2710	2667	2694	6612	1509	1647	1644	1669	1060	260	82	328	8521	424
1927/28	21366	9549	14122	7411	2930	2778	2640	6311	1512	1988	1772	2153	1046	266	83	354	8853	371
1928/29	22346	9187	14124	6951	3304	2844	2643	6518	1439	2015	1956	2550	905	273	81	357	9446	346
1929/30	21708	9078	15362	7003	2992	3080	2788	5265	1379	1831	1744	2363	899	277	84	364	9164	376
1930/31	22202	9541	15366	7457	2865	2987	2794	6340	1381	1992	2099	2608	994	282	82	345	8270	383
1931/32	22439	10114	14776	7573	2758	2904	2791	7163	1509	1947	1914	2210	1060	284	79	362	8324	205
1932/33	22119	10013	14563	7642	2730	2917	2733	6468	1464	2131	1868	2943	1184	284	80	346	7876	236
1933/34	22311	10866	14109	7231	2846	2851	2654	7323	1442	2130	1885	3144	1188	288	81	333	8225	277
1934/35	22025	10413	14466	6794	2896	2847	2619	6511	1520	1659	1771	2160	1253	290	83	404	8214	294
1935/36	22323	9972	14153	6883	2722	2870	2480	6948	1540	1815	1747	2206	1446	293	86	381	8384	240
1936/37	22956	10078	15960	6726	2853	2906	2505	7521	1595	1837	1913	2831	1611	294	87	347	8616	339
1937/38	23175	10794	14391	7227	2700	2843	2344	6914	1694	1960	1810	3772	1410	294	85	386	8898	339
1938/39	23484	10947	14582	7231	2716	2879	2315	5984	1677	1933	1871	3613	1131	294	83	395	8087	372
1939/40	23627	10105	14535	7444	2591	2932	2350	5685	1635	1903	1944	3567	1310	293	82	431	7372	321
1940/41	23464	10330	14482	7643	2711	2877	2410	6074	1620	1947	1947	3602	1677	293	82	418	7991	463
1941/42	23030	10005	14831	7634	2761	2767	2460	5796	1502	1992	1944	2913	1248	294	83	448	8283	315
1942/43	23581	9798	15526	9147	2886	3002	2512	6678	1427	2014	1727	3172	1290	296	84	377	6511	345
1943/44	24923	9811	15441	8579	2839	3022	2460	6346	1478	2080	1751	4047	1618	296	86	302	7052	284
1944/45	25467	10502	16475	9829	2762	3496	2355	7085	1453	1844	1819	4364	1599	294	93	410	4619	235
1945/46	24631	10124	15619	9356	2877	3427	2234	7540	1403	1839	1846	4257	1378	295	85	472	4593	235
1946/47	25315	10299	15351	8730	2895	3398	2183	6784	1319	1806	1846	4256	1507	299	91	388	4939	210

Source: The author's estimates (see the text for details).

Table 3. Intermediate Estimates for Production of Principal Crops in Areas in Contemporary India, 1900/01 to 1946/47

(1000 metric tonnes)

	Rice	Wheat	Jowar	Bajra	Barley	Maize	Ragi	Gram	Linseed	Sesamum	Rape and mustard	Ground-nut	Sugar-cane	Tea	Coffee	Tobacco	Cotton	Jute
1900/01	18967	5097	6099	2519	3000	2246	1370	3112	370	479	703	94	23001	79	21	243	533	265
1901/02	17958	4781	6122	2666	2753	2277	1933	3381	400	391	776	241	20408	77	20	300	502	302
1902/03	21176	6261	7549	2961	2694	2471	1834	3765	541	646	844	265	19511	76	19	356	618	267
1903/04	19684	7258	6344	2824	3416	2432	1782	3953	634	671	910	258	19688	84	19	346	565	294
1904/05	19364	5331	6051	2143	2646	2132	1874	3135	378	360	650	258	22861	88	17	294	669	300
1905/06	18173	4901	5784	2312	2661	2210	1647	3387	394	407	709	277	17388	88	17	317	656	331
1906/07	18676	5888	6285	3319	2916	2568	1832	3675	469	556	787	321	21673	96	17	339	887	374
1907/08	16652	4289	5496	2507	3218	1276	2008	1898	185	295	484	339	21757	98	17	274	534	399
1908/09	15645	5319	6835	3092	3326	2796	2042	3212	337	501	739	429	18043	99	17	328	636	256
1909/10	22810	7030	7413	3683	3759	2902	2110	4188	478	601	921	417	20152	104	16	400	842	293
1910/11	23107	7412	6738	3248	3534	2723	2149	4291	645	617	972	456	22032	105	16	408	690	322
1911/12	22576	7239	5272	2596	3371	2263	2091	5104	722	475	1022	503	23818	108	18	368	595	334
1912/13	20360	7633	6522	3199	2853	2449	1830	4208	621	584	1038	542	24192	119	18	360	817	400
1913/14	18346	5986	5918	2713	2960	2355	1500	2260	434	496	786	614	21042	121	17	318	853	361
1914/15	18447	7268	7823	3590	3359	2549	2190	4401	442	690	992	845	22831	125	18	421	909	426
1915/16	21386	6758	9260	3348	3475	2876	2250	4135	541	593	850	793	24748	149	17	397	695	298
1916/17	23090	8038	7888	3817	3723	2762	2271	4987	597	570	927	1209	25531	148	16	427	798	337
1917/18	23221	7365	6528	2877	3754	2857	2287	5042	612	404	872	1092	31810	148	17	360	717	360
1918/19	15164	5339	5339	1839	2993	1991	1649	2277	270	294	580	651	22290	152	18	379	655	282
1919/20	21645	6760	9638	3521	3461	2941	2322	4042	448	470	903	897	27866	149	17	378	971	344
1920/21	17809	5010	5961	2669	2803	2385	2302	2790	293	412	664	1024	22439	140	17	358	609	240
1921/22	21117	6793	7375	3533	3356	2939	2181	4459	464	551	830	1001	23463	111	15	453	869	162
1922/23	21596	7165	7540	3199	3344	2177	2197	5395	580	472	883	1247	27292	126	18	423	963	220
1923/24	18578	6694	6307	2931	3247	2523	2030	4704	505	421	876	1070	30172	150	13	389	923	341
1924/25	19701	6648	7258	3390	2880	1903	1905	4411	549	488	902	1376	22897	150	19	416	1039	327
1925/26	20048	6140	6281	3011	2797	2166	2102	4075	455	407	745	1812	27197	146	14	359	1060	363
1926/27	19334	6383	6711	3317	2779	2291	2123	4090	464	411	725	1837	30237	157	21	272	893	493
1927/28	18690	5788	7751	3172	2277	2596	2128	3314	415	543	627	2510	28902	155	21	406	1096	414
1928/29	20170	6037	7503	2889	2890	2324	2198	3026	387	501	676	2909	24088	161	16	353	1078	402
1929/30	19890	7380	7612	2700	2448	2868	2246	3522	430	437	891	2498	24957	171	23	366	918	420
1930/31	20260	6649	7696	3156	2629	2743	2286	3694	430	509	788	2823	29292	155	19	310	910	455
1931/32	21527	6600	6806	2930	2599	2673	2276	4037	467	487	776	2349	37002	159	17	343	693	225
1932/33	19976	6998	7082	3126	2564	2487	2390	3636	492	537	823	3053	43245	172	17	339	799	287
1933/34	19812	6894	6855	2865	2635	2250	2296	3824	446	515	735	3306	44863	152	17	302	800	324
1934/35	19600	7048	6874	2745	2859	2330	1926	3759	481	365	717	1844	47344	159	16	372	736	345
1935/36	18171	6738	6757	2924	2686	2368	1982	4337	471	439	780	2255	54337	157	21	353	879	293
1936/37	21361	7016	7759	2609	2620	2118	2085	4693	466	465	693	2896	60360	156	18	331	941	417
1937/38	20796	7753	7148	2945	2337	2271	1862	4082	504	497	840	3735	51092	170	17	364	918	376
1938/39	19156	7368	7132	2839	2146	2056	1645	3416	474	428	748	3452	30426	180	20	358	779	296
1939/40	20096	7591	7215	2630	2211	2441	1870	3752	508	466	919	3395	42133	179	18	394	790	361
1940/41	18238	7204	7765	3250	2460	2445	2008	3901	484	497	896	3809	53256	181	16	417	949	480
1941/42	18769	6698	6845	3115	2153	2165	2048	3390	399	473	892	2625	39271	199	19	404	963	299
1942/43	20134	7209	7125	3944	2373	2517	1842	4460	424	498	800	2951	46830	222	17	329	672	317
1943/44	22329	6567	7276	3745	2226	2489	1949	3479	394	485	765	3946	56888	218	19	271	737	280
1944/45	21132	7105	7003	3401	2462	2488	1840	4113	410	423	879	3987	52846	203	20	376	442	224
1945/46	19991	6121	5645	2853	2285	2363	1361	3912	380	442	766	3597	49083	228	21	383	431	282
1946/47	21134	5523	5437	2889	2494	2229	1564	3537	335	394	829	3723	52875	238	24	327	468	221

Source: The author's estimates (see the text for details).

Table 4. Intermediate Estimates for Area Under Principal Crops in Areas in Contemporary Pakistan, 1900/01 to 1946/47

(1000 ha)

	Rice	Wheat	Jowar	Bajra	Barley	Maize	Gram	Sesamum	Rape and mustard	Sugar-cane	Tabacco	Cotton
1900/01	689	2828	382	696	376	342	837	25	570	80	23	486
1901/02	705	2591	371	345	160	366	322	24	261	92	23	430
1902/03	721	2541	400	503	175	388	525	28	368	82	23	600
1903/04	695	2951	357	577	264	356	729	30	409	89	24	512
1904/05	732	2901	386	433	318	332	641	26	445	80	23	653
1905/06	730	3150	350	200	324	282	714	23	594	43	24	381
1906/07	732	3417	365	611	354	365	1150	24	554	65	24	676
1907/08	760	2868	394	681	371	365	453	26	340	104	23	681
1908/09	729	3354	430	857	328	389	1093	27	484	87	23	743
1909/10	786	3435	394	736	315	342	1192	29	511	97	25	654
1910/11	784	3544	384	647	278	390	1121	27	418	94	25	652
1911/12	763	3874	322	291	377	321	1060	25	534	69	24	723
1912/13	782	3385	370	744	281	358	925	27	366	86	23	751
1913/14	758	3327	377	786	280	355	772	27	403	95	23	942
1914/15	763	3952	381	748	386	345	1371	30	438	85	25	909
1915/16	777	3497	417	505	304	379	908	27	451	81	25	423
1916/17	803	3863	402	857	315	408	1302	27	429	96	26	557
1917/18	796	4147	366	719	403	394	1579	22	512	115	23	886
1918/19	761	2989	384	396	251	379	609	19	256	110	24	685
1919/20	785	3504	457	712	325	377	1075	22	345	111	24	1047
1920/21	781	2997	435	652	184	352	600	24	224	107	21	968
1921/22	792	3487	467	929	314	391	1331	26	581	89	26	596
1922/23	800	3824	446	859	323	394	1384	22	502	116	25	667
1923/24	760	3864	437	828	323	364	1095	22	444	113	24	879
1924/25	778	3832	453	775	246	337	1471	23	494	94	24	1032
1925/26	790	3770	418	768	224	335	951	21	328	95	25	1382
1926/27	765	3764	424	859	208	358	1213	20	352	108	24	1309
1927/28	749	3678	426	725	231	387	1068	24	378	116	25	1001
1928/29	794	3961	426	673	379	375	1138	24	654	95	25	1336
1929/30	769	3937	463	946	266	398	837	22	422	77	25	1155
1930/31	784	3713	463	903	188	377	1110	24	346	102	24	1183
1931/32	800	3784	445	904	178	361	1484	24	463	112	25	1150
1932/33	785	3564	439	969	174	361	1060	26	476	132	24	1057
1933/34	791	3969	425	965	190	377	1761	26	450	112	24	1329
1934/35	780	3795	436	807	175	393	998	20	274	112	27	1269
1935/36	785	3891	427	816	196	382	1304	22	296	115	26	1877
1936/37	771	3645	482	899	202	402	1022	29	352	122	29	1380
1937/38	775	3859	435	790	211	413	797	31	269	114	31	1496
1938/39	783	3631	441	785	157	418	473	30	242	79	31	1396
1939/40	808	3925	426	824	217	424	801	21	392	108	36	1335
1940/41	843	4047	484	1096	207	428	995	16	434	140	29	1411
1941/42	825	4044	469	1107	233	436	972	22	421	127	27	1459
1942/43	773	4384	508	1247	244	460	1205	19	471	115	29	1228
1943/44	930	4181	434	1087	218	445	1141	17	295	149	14	1458
1944/45	920	4298	511	1073	230	422	1296	23	383	159	25	1356
1945/46	981	4276	385	969	181	429	1354	26	335	155	22	1306
1946/47	900	3933	463	997	191	503	962	22	289	162	25	1166

Source: The author's estimates (see the text for details).

Table 5. Intermediate Estimates for Production of Principal Crops in Areas in Contemporary Pakistan, 1900/01 to 1946/47

(1000 metric tonnes)

	Rice	Wheat	Jowar	Bajra	Barley	Maize	Gram	Sesamum	Rape and mustard	Sugar-cane	Tabacco	Cotton
1900/01	816	2322	202	290	244	324	349	6	220	1478	22	55
1901/02	757	1595	203	125	108	334	147	5	70	1473	26	45
1902/03	922	2083	250	185	137	375	297	7	99	1245	29	53
1903/04	849	2776	210	224	229	422	477	8	164	1456	29	61
1904/05	882	2559	200	171	274	374	401	4	122	1395	26	84
1905/06	799	4034	191	59	294	289	478	5	182	517	25	22
1906/07	790	2951	208	271	295	365	694	7	177	1183	27	95
1907/08	705	2043	182	209	278	208	231	3	118	1514	22	86
1908/09	657	2546	226	341	259	621	624	6	202	1546	28	96
1909/10	1006	2857	245	336	262	409	738	7	229	1930	33	97
1910/11	1014	3097	223	251	232	439	693	7	148	1618	33	77
1911/12	983	3132	175	95	244	383	738	6	203	1018	30	58
1912/13	840	2675	216	314	170	395	519	7	166	1619	30	98
1913/14	795	2602	196	303	254	484	407	6	178	1833	25	151
1914/15	744	3076	259	363	328	333	883	8	191	1618	34	127
1915/16	908	2049	307	143	209	483	293	7	160	1636	33	48
1916/17	963	2547	261	552	221	470	568	7	170	1975	34	94
1917/18	978	2902	216	338	310	389	1035	5	214	2656	28	86
1918/19	641	2377	177	101	248	415	329	4	118	1863	32	128
1919/20	896	3568	319	554	288	434	652	6	182	2154	31	173
1920/21	745	1863	197	211	98	363	238	5	97	2014	30	162
1921/22	885	3397	244	410	232	445	696	7	238	1861	36	90
1922/23	912	3164	250	465	269	458	909	6	242	2681	34	126
1923/24	759	3301	209	424	274	436	685	5	197	2651	31	185
1924/25	814	2508	240	434	179	415	718	6	204	2168	32	265
1925/26	814	2848	208	328	167	368	461	5	134	2039	27	268
1926/27	777	2873	222	374	173	392	731	5	140	2322	21	179
1927/28	738	2249	257	336	164	481	524	6	162	2515	32	182
1928/29	854	2835	248	258	229	416	495	6	168	1951	27	166
1929/30	827	3430	252	304	201	453	524	5	156	1515	29	209
1930/31	848	2970	255	456	135	459	581	6	146	2025	25	214
1931/32	894	2718	225	485	125	440	691	6	190	2393	26	186
1932/33	821	2775	234	354	120	394	567	6	155	2779	27	177
1933/34	806	2782	227	407	118	353	908	6	137	2373	24	287
1934/35	798	3018	228	367	128	431	518	4	106	2133	29	299
1935/36	714	3022	224	390	140	396	687	5	119	2413	27	397
1936/37	803	3105	236	342	156	486	497	7	165	2327	32	398
1937/38	772	3353	217	248	159	486	335	8	103	1559	34	327
1938/39	698	2922	217	223	111	485	186	7	101	1241	33	317
1939/40	697	3563	200	314	168	474	376	4	143	2421	27	273
1940/41	683	3186	227	520	150	466	421	2	159	3325	19	369
1941/42	699	3701	236	554	170	470	477	4	145	3109	21	386
1942/43	750	4203	297	777	191	464	681	6	198	3045	25	346
1943/44	1059	3507	246	532	161	459	622	5	126	3990	12	328
1944/45	987	3794	254	550	170	512	726	7	147	4537	34	280
1945/46	1032	3218	208	547	126	492	719	6	142	5137	41	282
1946/47	857	3066	180	355	130	561	582	5	127	5272	24	270

Source: The author's estimates (see the text for details).

Table 6. Intermediate Estimates for Area Under Principal Crops in Areas in Contemporary Bangladesh, 1900/01 to 1946/47

(1000 ha)

	Rice	Wheat	Barley	Maize	Gram	Linseed	Sesamum	Rape and mustard	Ground-nut	Sugar-cane	Tea	Tabacco	Cotton	Jute
1900/01	7009	20	37	4	38	38	68	379	0	117	26	149	20	617
1901/02	6972	19	33	4	42	36	74	361	0	96	25	143	20	667
1902/03	7216	19	32	4	43	39	69	360	0	99	26	135	23	621
1903/04	6948	23	38	4	48	42	79	370	0	96	26	143	25	652
1904/05	7660	23	38	4	44	40	97	373	0	96	26	149	28	839
1905/06	7222	21	39	4	39	41	89	349	0	82	26	140	30	922
1906/07	7329	24	37	4	43	39	90	371	0	78	26	134	32	1026
1907/08	7431	18	32	4	32	32	77	356	0	91	26	142	31	1171
1908/09	7027	22	29	4	37	32	84	338	0	74	29	138	28	842
1909/10	7906	23	33	4	42	33	93	431	0	68	28	130	29	847
1910/11	7880	25	34	4	43	35	94	405	0	70	29	124	32	866
1911/12	7778	26	38	4	49	37	74	395	0	71	30	121	30	915
1912/13	7551	24	35	4	46	36	99	414	0	70	30	123	31	875
1913/14	7359	23	36	4	53	39	93	405	0	70	32	122	35	858
1914/15	7413	26	35	3	56	33	95	406	0	72	33	121	35	989
1915/16	7553	24	36	4	61	40	86	404	0	71	33	130	25	700
1916/17	7633	27	35	3	62	41	85	397	0	70	34	128	31	796
1917/18	7461	29	37	4	67	44	78	389	0	68	34	114	36	806
1918/19	7376	19	34	4	56	36	88	352	0	72	35	133	29	736
1919/20	7460	24	37	4	66	39	80	337	0	72	35	125	33	836
1920/21	7387	21	36	4	64	37	77	311	0	74	35	106	30	739
1921/22	7632	23	37	4	64	38	83	318	0	76	37	123	26	447
1922/23	7656	25	38	4	66	39	73	297	0	73	37	124	31	530
1923/24	7083	25	36	4	62	39	72	291	0	73	37	116	33	821
1924/25	7332	26	36	4	62	41	72	296	0	71	38	110	38	816
1925/26	7330	25	36	4	60	40	73	300	0	73	39	119	40	918
1926/27	6997	25	34	4	62	37	76	282	0	71	39	119	35	1133
1927/28	6690	26	35	4	56	36	77	274	0	71	40	118	35	994
1928/29	7404	26	37	4	60	40	76	271	0	69	41	119	38	926
1929/30	7100	26	37	4	65	41	70	258	0	69	42	117	36	1006
1930/31	7163	26	36	4	68	38	77	273	0	70	43	113	33	1023
1931/32	7539	27	36	4	68	39	76	280	0	75	43	114	33	549
1932/33	7286	27	41	4	68	38	78	268	0	78	43	117	32	631
1933/34	7310	29	35	4	69	38	79	259	0	97	43	113	34	742
1934/35	7180	28	41	4	69	38	77	265	0	106	44	117	33	787
1935/36	7095	27	36	4	65	35	74	254	0	115	44	118	36	643
1936/37	7043	22	29	3	47	32	81	258	0	121	44	123	24	829
1937/38	6988	24	30	3	49	33	83	263	0	97	44	124	25	830
1938/39	6988	24	30	3	49	34	83	259	0	101	44	119	23	909
1939/40	7178	26	25	2	55	37	81	271	0	108	44	129	26	958
1940/41	6800	25	29	3	61	39	78	266	0	113	44	133	32	1831
1941/42	7490	25	28	3	60	39	81	262	0	109	44	132	32	559
1942/43	7493	27	36	8	81	37	73	306	0	106	44	122	32	1004
1943/44	8525	32	34	4	81	37	81	290	0	127	44	115	23	784
1944/45	9118	41	67	6	143	35	79	179	0	115	44	69	32	616
1945/46	8606	35	47	3	110	32	68	183	0	111	44	70	37	745
1946/47	8377	28	33	4	79	33	64	217	0	105	45	90	22	563

Source: The author's estimates (see the text for details).

Table 7. Intermediate Estimates for Production of Principal Crops in Areas in Contemporary Bangladesh, 1900/01 to 1946/47

(1000 metric tonnes)

	Rice	Wheat	Barley	Maize	Gram	Linseed	Sesamum	Rape and mustard	Ground-nut	Sugar-cane	Tea	Tabacco	Cotton	Jute
1900/01	8539	12	31	4	28	18	33	152	0	3051	10	132	3	919
1901/02	7567	11	28	3	32	16	27	165	0	2560	10	158	3	1048
1902/03	9908	14	26	4	32	22	26	152	0	2534	9	151	3	926
1903/04	8935	17	31	3	36	23	34	160	0	2516	11	152	3	1020
1904/05	10363	13	32	3	33	16	29	162	0	2534	12	150	4	1042
1905/06	8766	15	32	4	28	18	33	125	0	1986	12	123	3	1147
1906/07	7951	15	31	4	32	16	42	146	0	1984	13	125	5	1297
1907/08	7102	10	25	3	23	13	22	124	0	2369	13	114	3	1383
1908/09	6490	13	22	3	26	11	31	100	0	1591	13	166	4	889
1909/10	11099	16	27	4	32	17	49	196	0	1848	13	174	5	1015
1910/11	11075	17	30	4	34	20	51	205	0	2140	14	166	4	1117
1911/12	10544	17	27	4	43	23	41	180	0	2214	14	159	3	1160
1912/13	7951	17	25	3	37	20	40	192	0	2189	16	165	4	1386
1913/14	8452	14	31	3	45	26	46	201	0	2165	18	110	5	1253
1914/15	6628	17	28	3	35	18	41	155	0	1960	17	162	5	1478
1915/16	9226	15	28	3	47	23	37	170	0	2086	20	174	4	1034
1916/17	9370	18	33	3	55	26	37	191	0	2044	20	164	4	1170
1917/18	9740	17	30	4	52	29	30	189	0	2284	20	129	4	1249
1918/19	6440	13	26	3	35	18	33	132	0	2137	20	178	4	980
1919/20	8547	17	31	4	53	23	39	155	0	2550	22	162	6	1194
1920/21	7312	11	31	4	50	19	33	134	0	2378	16	156	4	833
1921/22	8718	17	35	5	52	24	41	144	0	2456	13	165	5	561
1922/23	9141	17	29	3	55	24	36	129	0	2147	16	169	5	762
1923/24	6989	17	30	4	45	22	33	123	0	2257	20	143	5	1183
1924/25	7737	15	31	2	43	21	34	147	0	1975	20	146	6	1135
1925/26	7397	15	29	4	43	18	31	115	0	2374	19	118	6	1259
1926/27	6847	15	29	3	47	17	33	124	0	2201	21	96	5	1709
1927/28	6191	13	27	4	35	14	39	129	0	2313	22	150	6	1435
1928/29	8607	15	31	3	43	20	39	139	0	2231	22	125	6	1395
1929/30	7969	18	30	4	51	19	35	137	0	2238	25	131	5	1456
1930/31	8305	16	31	4	49	17	38	132	0	2363	22	120	5	1578
1931/32	8594	15	30	4	46	17	36	127	0	2485	20	117	4	781
1932/33	7687	16	32	4	45	20	41	137	0	3296	25	128	5	996
1933/34	7353	16	26	3	45	19	43	139	0	4654	22	114	5	1125
1934/35	7283	17	34	3	47	19	40	148	0	5043	22	128	5	1197
1935/36	5874	16	23	3	39	15	38	125	0	5260	22	120	6	1016
1936/37	7939	15	25	3	34	17	46	172	0	5213	23	137	5	1326
1937/38	7358	16	27	3	35	18	51	145	0	4160	25	134	5	1195
1938/39	6316	15	24	2	33	16	37	138	0	3953	25	129	4	941
1939/40	6770	18	21	1	38	17	37	126	0	4506	26	131	5	1406
1940/41	5104	12	20	3	36	14	37	114	0	4559	29	114	6	1910
1941/42	7624	15	24	3	42	19	37	121	0	3990	28	140	5	692
1942/43	5696	20	29	5	62	18	34	142	0	3614	34	130	6	1325
1943/44	9517	21	26	4	53	16	40	130	0	4482	34	117	4	989
1944/45	8274	24	39	6	89	13	41	76	0	3867	29	70	6	899
1945/46	7857	19	25	2	61	12	36	78	0	4220	33	67	5	1131
1946/47	7734	14	22	2	43	12	30	95	0	3853	37	90	4	767

Source: The author's estimates (see the text for details).

Table 8. Final Estimates for Area Under Principal Crops in Areas in Contemporary India, 1901/02 to 2001/02

Area (1000ha)

	Rice	Wheat	Jowar	Bajra	Barley	Maize	Ragi	Gram	Linseed	Sesamum	Rape and mustard	Ground-nut	Sugar-cane	Tea	Coffee	Tabacco	Cotton	Jute
1901/02	19514	7607	12102	6732	2647	2810	2380	5061	1397	1900	1389	193	936	175	99	301	5502	249
1902/03	20006	7394	12936	6765	2415	2868	2350	5274	1455	2277	1829	219	910	178	91	298	6235	232
1903/04	19253	8774	11513	6887	3112	2767	2272	5745	1881	2434	1871	211	902	178	93	304	6751	244
1904/05	19990	8985	12714	5246	3097	2712	2243	5662	1949	2074	1947	204	943	178	85	288	7506	314
1905/06	20284	7663	11391	5618	2952	2626	2244	5004	1486	1883	1922	217	849	179	83	308	8163	344
1906/07	20172	8439	11792	7455	3178	2800	2335	6265	1660	1921	1920	277	923	178	83	322	8549	384
1907/08	21267	6466	12855	7618	3157	2859	2773	3141	985	2162	1586	326	1145	181	82	302	8179	437
1908/09	20457	7888	13916	8231	3286	3085	2728	5297	1365	2139	1834	380	844	198	83	304	7414	314
1909/10	21673	8615	12905	8205	3343	3091	2789	6018	1436	2348	2144	401	793	192	81	340	7760	317
1910/11	21605	9565	12442	7752	3315	2924	2685	6559	1699	2210	2098	380	803	199	82	344	8549	323
1911/12	20958	9702	10630	6645	3756	2542	2654	6902	2278	2055	2289	478	922	203	87	318	7965	342
1912/13	21875	9177	12046	8247	3260	2883	2772	5983	1908	2160	2136	519	969	210	87	321	8170	327
1913/14	21154	8454	12195	7764	3060	2808	2675	4228	1400	2174	1863	828	929	215	83	322	9138	320
1914/15	21257	9499	12375	8305	3280	2844	2652	6699	1503	2370	2086	954	845	220	89	346	9107	370
1915/16	21616	9112	13855	7729	3391	3084	2667	6158	1534	2212	2056	624	882	224	85	351	6739	262
1916/17	22415	9884	13021	7858	3460	3012	2621	7253	1641	2197	2055	919	884	229	81	358	8230	298
1917/18	22375	10775	12011	6506	3798	2944	2689	7886	1839	1814	2179	771	1044	236	85	326	9458	301
1918/19	21244	6888	12824	5660	2702	2782	2435	3716	933	1556	1536	570	1067	239	87	312	7643	275
1919/20	22003	8903	15090	7317	3142	3066	2865	5913	1351	1818	1910	648	976	245	83	326	8350	313
1920/21	21882	7810	14463	6169	2674	2884	2707	4439	1006	1965	1600	820	919	249	83	298	7639	276
1921/22	22174	8294	15357	8219	3064	3043	2666	6696	1303	2112	1805	835	845	250	82	354	6796	167
1922/23	22351	9077	14800	7422	3127	2879	2711	7617	1486	1828	1910	1015	957	250	82	346	8091	198
1923/24	21385	9267	14461	7560	3204	2774	2720	6787	1653	1796	2005	1060	1048	251	81	327	8609	307
1924/25	21872	9507	14952	6790	3010	2568	2669	7827	1634	1876	2013	1116	913	251	80	344	9649	305
1925/26	22254	8975	13777	6984	2825	2575	2667	6576	1664	1708	1772	1556	972	256	81	350	10183	343
1926/27	21762	9347	13972	7270	2747	2718	2694	6917	1509	1628	1776	1669	1065	260	82	325	8752	424
1927/28	21380	9907	14025	7097	2983	2814	2640	6571	1512	1965	1950	2153	1044	266	83	349	9058	371
1928/29	22388	9585	14036	6684	3431	2885	2643	6803	1439	1998	2233	2550	897	273	81	355	9707	346
1929/30	21670	9149	15134	6694	3009	3133	2788	5157	1379	1812	1779	2363	885	277	84	367	9384	376
1930/31	22161	9791	15306	7317	2894	3029	2794	6509	1381	1982	2251	2608	983	282	82	341	8563	383
1931/32	22507	10456	14718	7507	2786	2945	2791	7493	1509	1934	2131	2210	1048	284	79	351	8621	205
1932/33	22185	10073	14389	7488	2752	2955	2733	6577	1464	2111	2111	2943	1180	284	80	345	8101	236
1933/34	22334	10863	14011	7114	2885	2900	2654	7888	1442	2119	2067	3144	1181	288	81	335	8503	277
1934/35	22074	10543	14434	6619	2918	2888	2619	6589	1520	1637	1862	2160	1254	290	83	398	8379	294
1935/36	22376	10083	14116	6797	2741	2911	2480	7323	1540	1809	1850	2206	1444	293	86	374	8895	240
1936/37	22938	9961	15981	6728	2874	2973	2505	7441	1595	1832	2044	2831	1596	294	87	349	8539	339
1937/38	23203	10673	14388	7187	2710	2913	2344	6967	1694	1954	1875	3772	1402	294	85	382	8819	339
1938/39	23439	10652	14578	7171	2701	2945	2315	5790	1677	1942	1910	3613	1113	294	83	393	8026	372
1939/40	23600	10020	14533	7500	2608	3013	2350	5778	1635	1903	2051	3567	1303	293	82	431	7321	321
1940/41	23438	10231	14466	7768	2727	2961	2410	6199	1620	1948	2070	3602	1668	293	82	418	7968	463
1941/42	23007	9925	14807	7719	2774	2843	2460	5902	1502	1992	2033	2913	1240	294	83	447	8265	315
1942/43	23550	9750	15502	9233	2901	3074	2512	6816	1427	2014	1793	3172	1282	296	84	376	6499	345
1943/44	24895	9774	15416	8636	2851	3093	2460	6448	1478	2080	1799	4047	1618	296	86	301	7063	284
1944/45	25433	10423	16422	9830	2775	3523	2355	7233	1453	1845	1871	4364	1600	294	93	411	4555	235
1945/46	24597	10064	15587	9361	2888	3451	2234	7666	1403	1839	1909	4257	1372	295	85	472	4568	235
1946/47	25153	10113	15331	8809	2927	3479	2183	6729	1319	1800	1897	4256	1503	299	91	395	4825	210
1947/48	25585	7852	13896	6789	3013	2993	2214	7811	1256	1408	934	3905	1675	321	89	361	3971	331
1948/49	29334	9041	14904	8006	3121	3409	2165	8295	1522	1879	1875	3709	1518	311	88	325	4570	340
1949/50	30519	9758	15513	9259	3181	3262	2206	8295	1521	2046	1935	3979	1467	312	88	348	4926	471
1950/51	30810	9746	15571	9023	3113	3159	2203	7570	1403	2204	2071	4494	1707	314	91	357	5882	571
1951/52	29830	9471	15944	9519	3159	3310	2189	6830	1380	2405	2401	4917	1939	316	93	289	6556	790
1952/53	29969	9828	17539	10769	3246	3605	2243	7256	1362	2377	2105	4795	1729	315	93	363	6359	930
1953/54	31289	10681	17758	12199	3529	3869	2334	7968	1387	2570	2244	4247	1410	314	93	369	6987	684

Table 8. Final Estimates for Area Under Principal Crops in Areas in Contemporary India, 1901/02 to 2001/02

Area (1000ha)

	Rice	Wheat	Jowar	Bajra	Barley	Maize	Ragi	Gram	Linseed	Sesamum	Rape and mustard	Ground-nut	Sugar-cane	Tea	Coffee	Tabacco	Cotton	Jute
1954/55	30764	11259	17464	11366	3414	3749	2298	9248	1361	2626	2439	5541	1618	315	95	346	7546	680
1955/56	31521	12367	17362	11338	3418	3696	2307	9779	1529	2293	2556	5133	1847	316	101	410	8086	935
1956/57	32277	13524	16237	11251	3518	3758	2279	9674	1682	2172	2539	5532	2050	316	94	419	8019	1069
1957/58	32298	11730	17311	11169	3069	4079	2416	9091	1283	2094	2412	6420	2073	321	99	359	8014	1015
1958/59	33172	12617	17960	11428	3312	4269	2540	10080	1595	2250	2447	6251	1948	322	108	379	7964	1100
1959/60	33820	13380	17707	10695	3378	4344	2518	10326	1974	2136	2910	6442	2137	331	111	408	7295	975
1960/61	34128	12927	18412	11469	3205	4407	2515	9276	1789	2169	2883	6463	2415	331	114	401	7610	903
1961/62	34694	13570	18249	11278	3312	4507	2511	9566	1977	2252	3168	6889	2455	331	118	418	7978	1342
1962/63	35695	13590	18414	10962	3019	4643	2484	9193	1904	2552	3127	7283	2242	333	121	405	7730	1242
1963/64	35809	13499	18376	11103	2774	4582	2471	9354	1995	2412	3046	6886	2249	334	124	441	8221	1270
1964/65	36364	13460	17938	11726	2682	4618	2612	8870	2042	2486	2910	7376	2603	338	128	406	8365	1213
1965/66	35273	12656	17504	11563	2640	4765	2696	7993	1723	2509	2913	7698	2836	342	129	377	7962	1110
1966/67	35251	12838	18054	12239	2825	5074	2316	8003	1495	2794	3006	7299	2301	345	128	424	7836	1119
1967/68	36437	14998	18423	12808	3375	5583	2291	8257	1777	2654	3244	7553	2047	348	129	424	7995	1201
1968/69	36966	15958	18731	12052	2758	5716	2238	7105	1697	2423	2870	7088	2532	351	131	440	7596	807
1969/70	37680	16626	18605	12493	2765	5862	2783	7751	1803	2309	3172	7125	2749	353	131	438	7731	1090
1970/71	37592	18241	17374	12913	2555	5852	2472	7839	1897	2433	3323	7326	2615	354	135	447	7605	1080
1971/72	37334	19163	16802	11769	2455	5637	2425	7912	2064	2392	3614	7510	2390	357	138	458	7800	1111
1972/73	36688	19464	15513	11817	2449	5838	2329	6967	1726	2288	3319	6990	2452	359	147	445	7679	993
1973/74	38285	18583	16716	13933	2650	6015	2360	7761	2038	2386	3457	7024	2752	360	156	462	7574	1163
1974/75	37888	18010	16189	11285	2885	5863	2464	7041	2071	2234	3680	7063	2894	362	156	381	7562	983
1975/76	39475	20454	16092	11571	2802	6031	2630	8320	2119	2170	3339	7222	2762	363	172	368	7350	914
1976/77	38511	20922	15772	10751	2241	6000	2496	7974	1888	2279	3128	7043	2866	364	188	432	6885	1089
1977/78	40283	21456	16318	11104	2001	5683	2600	7974	2010	2384	3584	7028	3151	366	192	504	7866	1163
1978/79	40482	22641	16146	11393	1828	5760	2705	7708	2091	2389	3544	7433	3088	369	196	409	8119	1265
1979/80	39414	22172	16674	10579	1771	5721	2615	6985	1614	2377	3471	7165	2610	374	200	425	8127	1217
1980/81	40152	22279	15809	11657	1807	6005	2525	6584	1673	2472	4113	6801	2667	382	210	452	7823	1300
1981/82	40708	22144	16599	11784	1728	5935	2611	7868	1820	2593	4399	7429	3193	384	217	444	8057	1149
1982/83	38262	23567	16376	10942	1483	5720	2412	7399	1404	2217	3827	7215	3358	394	227	503	7871	1020
1983/84	41244	24672	16432	11832	1386	5859	2558	7161	1487	2204	3874	7539	3110	396	232	440	7721	1053
1984/85	41159	23565	15939	10619	1253	5800	2387	6904	1395	2117	3987	7168	2953	399	235	437	7382	1129
1985/86	41137	22997	16097	10652	1369	5797	2401	7805	1424	2217	3980	7125	2849	400	241	397	7533	1494
1986/87	41167	23131	15948	11266	1225	5923	2405	6984	1155	2164	3719	6982	3079	411	243	389	6948	1068
1987/88	38806	23063	15999	8713	1143	5561	2262	5767	1151	2153	4619	6844	3279	414	242	318	6459	958
1988/89	41736	24109	14599	12046	1081	5897	2317	6809	1199	2448	4832	8529	3329	415	245	377	7343	919
1989/90	42167	23502	14838	10900	991	5915	2343	6471	1124	2387	4967	8710	3438	417	247	413	7695	907
1990/91	42687	24167	14358	10476	962	5904	2171	7521	1099	2516	5782	8309	3686	419	271	411	7440	1017
1991/92	42649	23262	12360	10028	954	5859	2130	5580	886	2627	6553	8668	3844	421	249	427	7661	1114
1992/93	41775	24589	13041	10617	916	5963	1905	6454	895	2124	6193	8166	3572	420	265	419	7542	933
1993/94	42539	25147	12710	9546	794	5995	1884	6359	953	2217	6289	8322	3422	418	275	385	7321	885
1994/95	42814	25639	11514	10223	891	6106	1832	7543	948	1971	6060	7849	3867	426	275	382	7871	929
1995/96	42837	25011	11326	9319	824	5979	1774	7116	843	1826	6546	7524	4147	427	305	395	9035	926
1996/97	43283	25887	11572	10000	757	6260	1784	6847	845	1992	6545	7596	4174	431	304	428	9122	1102
1997/98	43446	26696	10801	9668	858	6321	1657	7563	794	1660	7041	7088	3930	434	306	464	8904	1101
1998/99	44802	27523	9794	9297	793	6204	1758	8469	749	1609	6513	7396	4076	436	329	508	9342	1025
999/2000	44972	27486	10251	8855	728	6422	1634	6146	593	1560	6027	6867	4225	504	340	433	8710	1039
2000/01	44361	25731	9856	9829	778	6611	1759	4891	591	1750	4473	6733	4316	510	347	262	8535	1018
2001/02	44622	26340	9925	9548	666	6593	1679	6420	572	1735	5070	6240	4410	512	347	349	9130	1050

Table 9. Final Estimates for Production of Principal Crops in Areas in Contemporary India, 1901/02 to 2001/02

(1000 metric tonnes)

	Rice	Wheat	Jowar	Bajra	Barley	Maize	Ragi	Gram	Linseed	Sesamum	Rape and mustard	Ground-nut	Sugar-cane	Tea	Coffee	Tabacco	Cotton	Jute
1901/02	18214	4970	5940	2393	2729	2328	1933	3435	400	378	773	241	20584	77	20	312	521	302
1902/03	21591	6413	7212	2638	2666	2548	1834	3892	541	626	846	265	19799	76	19	364	642	267
1903/04	20040	7238	6055	2566	3374	2494	1782	4140	634	652	898	258	20094	84	19	355	581	294
1904/05	19777	5399	5949	1978	2614	2184	1874	3376	378	353	656	258	23133	88	17	296	704	300
1905/06	18503	4963	5576	2106	2616	2230	1647	3489	394	398	768	277	17363	88	17	315	664	331
1906/07	18941	6318	5936	3023	2949	2523	1832	4036	469	547	793	321	21727	96	17	341	930	374
1907/08	17035	4232	5308	2368	3251	1158	2008	1974	185	292	489	339	21976	98	17	273	569	399
1908/09	15802	5094	6535	2812	3241	3119	2042	3325	337	486	758	429	18211	99	17	332	676	256
1909/10	23185	6972	7232	3477	3681	2911	2110	4426	478	586	1008	417	20432	104	16	406	884	293
1910/11	23552	7597	6497	3011	3519	2723	2149	4548	645	598	1038	456	22141	105	16	415	711	322
1911/12	22939	7570	5236	2504	3357	2322	2091	5518	722	466	1073	503	23986	108	18	367	609	334
1912/13	20619	7834	6336	3054	2858	2502	1830	4422	621	569	1121	542	24873	119	18	367	860	400
1913/14	18610	5918	5704	2531	2940	2421	1500	2328	434	482	768	614	21352	121	17	318	908	361
1914/15	18614	7114	7654	3545	3324	2556	2190	4883	442	664	982	845	23204	125	18	425	960	426
1915/16	21641	6622	9315	3257	3443	2951	2250	4162	541	588	859	793	25012	149	17	401	715	298
1916/17	23366	8028	7618	3790	3746	2862	2271	5215	597	553	942	1209	25681	148	16	436	830	337
1917/18	23647	7093	6553	2834	3839	2879	2287	5465	612	396	809	1092	32354	148	17	362	742	360
1918/19	15317	5345	5393	1785	3000	2032	1649	2314	270	294	588	651	22556	152	18	380	686	282
1919/20	21768	7294	9632	3659	3469	3084	2322	4242	448	464	932	897	28116	149	17	387	1025	344
1920/21	17942	5080	5976	2578	2798	2463	2302	2796	293	409	696	1024	22626	140	17	360	670	240
1921/22	21294	6939	7276	3503	3338	3030	2181	4536	464	543	819	1001	23439	111	15	452	906	162
1922/23	21681	7442	7484	3193	3385	2287	2197	5739	580	465	913	1247	27489	126	18	431	1012	220
1923/24	18589	7130	6250	2947	3356	2594	2030	4903	505	415	944	1070	30446	150	13	388	981	341
1924/25	19767	6907	7215	3410	2898	1988	1905	4637	549	483	943	1376	23112	150	19	419	1116	327
1925/26	20128	6443	6258	3011	2794	2200	2102	4109	455	400	775	1812	27401	146	14	360	1185	363
1926/27	19468	6659	6664	3275	2804	2402	2123	4323	464	406	760	1837	30271	157	21	273	976	493
1927/28	18788	6299	7736	3140	2302	2674	2128	3444	415	535	692	2510	29119	155	21	412	1177	414
1928/29	20227	6092	7494	2809	2907	2386	2198	3046	387	496	707	2909	23968	161	16	354	1149	402
1929/30	19956	7481	7600	2612	2434	2952	2246	3496	430	430	872	2498	24632	171	23	372	992	420
1930/31	20271	6888	7696	3233	2628	2814	2286	3743	430	507	847	2823	29016	155	19	306	998	455
1931/32	21643	6719	6813	3087	2598	2749	2276	4108	467	484	836	2349	36837	159	17	336	788	225
1932/33	20092	7133	7011	3077	2556	2541	2390	3707	492	530	893	3053	43564	172	17	335	869	287
1933/34	19868	6894	6841	2864	2642	2297	2296	4164	446	510	769	3306	44709	152	17	301	874	324
1934/35	19780	7200	6864	2728	2869	2377	1926	3782	481	359	731	1844	47384	159	16	360	791	345
1935/36	18244	6799	6767	2955	2689	2419	1982	4542	471	436	808	2255	54283	157	21	341	1017	293
1936/37	21413	6937	7753	2583	2624	2213	2085	4719	466	463	735	2896	59682	156	18	327	991	417
1937/38	20779	8025	7130	2900	2335	2370	1862	4097	504	495	848	3735	50381	170	17	330	974	376
1938/39	19080	7144	7124	2717	2131	2165	1645	3358	474	430	751	3452	29798	180	20	354	811	296
1939/40	20097	7560	7227	2646	2235	2534	1870	3794	508	465	906	3395	41991	179	18	379	828	361
1940/41	18236	7253	7713	3403	2479	2541	2008	3955	484	497	881	3809	53065	181	16	402	1009	480
1941/42	18757	6656	6817	3159	2174	2251	2048	3438	399	472	879	2625	39144	199	19	395	1020	299
1942/43	20123	7245	7108	3996	2396	2607	1842	4534	424	498	788	2951	46512	222	17	314	725	317
1943/44	22337	6580	7254	3779	2246	2569	1949	3528	394	485	765	3946	56870	218	19	262	770	280
1944/45	21131	7075	6983	3423	2480	2495	1840	4192	410	423	869	3987	52722	203	20	376	458	224
1945/46	19995	5832	5620	2913	2301	2416	1361	3983	380	442	765	3597	48870	228	21	382	455	282
1946/47	20894	5474	5352	2805	2526	2269	1564	3583	335	392	812	3723	52655	238	24	325	466	221
1947/48	20685	5220	6067	2858	2682	2470	1728	4575	342	312	410	3318	59104	255	16	238	389	301
1948/49	22960	5741	5103	2206	2241	2105	1409	4608	430	340	747	2948	49472	262	16	259	314	376
1949/50	23542	6391	5870	2835	2251	2046	1544	3726	418	438	806	3433	50173	265	22	268	467	561
1950/51	20576	6462	5495	2595	2378	1729	1429	3651	367	445	762	3481	57051	275	25	261	517	596
1951/52	21300	6183	6077	2346	2367	2076	1312	3387	333	452	943	3192	61634	291	25	209	557	849
1952/53	22899	7501	7359	3192	2928	2870	1337	4208	372	471	858	2929	50996	306	22	245	568	957
1953/54	28214	8017	8082	4547	2951	3039	1876	4832	385	563	872	3445	44411	267	26	272	701	679

Table 9.   Final Estimates for Production of Principal Crops in Areas in Contemporary India, 1901/02 to 2001/02

(1000 metric tonnes)

	Rice	Wheat	Jowar	Bajra	Barley	Maize	Ragi	Gram	Linseed	Sesamum	Rape and mustard	Ground-nut	Sugar-cane	Tea	Coffee	Tabacco	Cotton	Jute
1954/55	25219	9043	9201	3519	2980	2975	1653	5621	390	603	1037	4245	58739	293	27	255	756	695
1955/56	27557	8760	6726	3428	2816	2602	1846	5418	420	467	860	3862	60543	285	34	303	711	971
1956/57	29037	9403	7327	2873	2863	3078	1793	6231	390	438	1043	4369	69051	311	36	305	837	1045
1957/58	25525	7998	8635	3620	2292	3150	1796	4890	259	359	933	4710	71155	307	40	240	844	959
1958/59	30847	9958	9033	3868	2694	3463	1950	7023	452	514	1042	5178	73358	317	42	317	829	1244
1959/60	31676	10324	8579	3493	2717	4073	1986	5618	446	370	1063	4562	77817	326	46	292	625	1023
1960/61	34574	10997	9814	3283	2819	4080	1838	6250	398	318	1347	4812	110001	321	43	307	953	947
1961/62	35663	12072	8029	3645	3150	4312	2030	5785	463	372	1346	4994	103967	354	40	339	825	1482
1962/63	33217	10776	9748	3959	2420	4607	2041	5362	430	492	1303	5064	91913	347	42	341	941	1293
1963/64	36998	9853	9198	3878	2038	4561	2021	4502	379	439	915	5298	104225	346	45	360	977	1436
1964/65	39034	12290	9749	4454	2521	4658	2023	5777	494	484	1474	6004	121909	372	47	356	1022	1379
1965/66	30655	10424	7527	3655	2382	4760	1327	4224	331	424	1298	4263	123990	366	64	293	825	1040
1966/67	30438	11393	9224	4468	2348	4894	1631	3622	260	416	1228	4411	92826	376	79	353	895	1184
1967/68	37612	16540	10048	5185	3504	6269	1884	5971	438	445	1568	5731	95500	385	57	369	982	1367
1968/69	39761	18652	9804	3802	2424	5701	1648	4309	329	422	1347	4631	124676	402	73	361	926	691
1969/70	40430	20093	9721	5327	2716	5674	2117	5546	469	448	1564	5130	135024	394	64	337	946	1221
1970/71	42225	23833	8105	8029	2784	7486	2155	5199	474	562	1976	6111	126368	419	110	362	810	1115
1971/72	42735	26477	7753	5357	2577	5026	2208	5081	529	449	1433	6181	113570	435	69	419	1182	1230
1972/73	39245	24735	6968	3929	2379	6389	1923	4537	428	385	1808	4092	124867	456	91	372	975	1096
1973/74	44051	21778	9097	7519	2371	5804	2072	4099	504	485	1704	5932	140805	472	86	462	1073	1382
1974/75	39579	24104	10414	3272	3135	5559	2136	4015	564	392	2252	5111	144289	489	93	363	1217	1050
1975/76	48740	28846	9504	5736	3192	7256	2797	5879	598	479	1936	6755	140604	487	84	350	1012	1065
1976/77	41917	29010	10524	5853	2344	6361	2045	5424	419	422	1550	5264	153007	512	102	419	993	1278
1977/78	52670	31749	12064	4730	2311	5973	2866	5410	527	520	1650	6087	176966	556	125	494	1231	1288
1978/79	53773	35508	11436	5566	2142	6199	3200	5739	535	514	1860	6208	151655	564	111	454	1353	1500
1979/80	42330	31830	11648	3948	1624	5603	2721	3357	269	348	1428	5768	128833	544	150	439	1300	1433
1980/81	53631	36313	10431	5343	2293	6957	2420	4328	423	446	2304	5005	154248	570	119	481	1192	1469
1981/82	53248	37452	12062	5537	1993	6897	2961	4642	483	590	2381	7223	186358	560	150	520	1340	1507
1982/83	47116	42794	10753	5131	1867	6549	2223	5290	376	552	2207	5282	189506	561	130	582	1281	1291
1983/84	60097	45476	11919	7726	1834	7922	2831	4751	444	559	2608	7085	174076	582	105	493	1086	1390
1984/85	58337	44069	11402	6046	1556	8442	2530	4562	389	520	3073	6436	170319	640	196	486	1446	1402
1985/86	63825	47052	10197	3664	1962	6644	2518	5788	376	501	2681	5121	170648	656	122	441	1484	2276
1986/87	60557	44323	9185	4514	1669	7593	2708	4532	317	448	2605	5785	186090	665	192	462	1174	1553
1987/88	56863	46169	12196	3298	1577	5721	2319	3626	393	583	3455	5854	196737	700	123	367	1085	1220
1988/89	70489	54110	10170	7780	1722	8229	2410	5129	361	682	4377	9658	203037	688	215	493	1486	1415
1989/90	73573	49850	12898	6649	1486	9651	2767	4217	326	745	4125	8101	225569	720	118	552	1942	1492
1990/91	74291	55135	11681	6890	1640	8962	2340	5356	332	835	5229	7515	241046	742	170	556	1671	1662
1991/92	74678	55690	8100	4670	1700	8064	2582	4121	292	706	5863	7095	253995	754	180	584	1651	1852
1992/93	72868	57210	12810	8880	1510	9992	2531	4420	278	758	4803	8560	228033	732	169	597	1938	1546
1993/94	80300	59840	11410	4970	1310	9601	2597	4980	330	564	5328	7830	229659	761	208	563	1819	1516
1994/95	81814	65469	8965	7159	1727	9118	2430	6440	323	587	5758	8062	275540	753	180	567	2023	1634
1995/96	76975	62767	9327	5381	1510	9534	2501	4979	292	531	6000	7579	281100	756	223	535	2193	1585
1996/97	81312	69350	11088	7905	1462	10769	2347	5566	309	641	6658	8643	277560	780	206	618	2414	2016
1997/98	82545	66345	7530	7640	1680	10816	2087	6132	237	568	4703	7370	279541	811	228	646	1853	1984
1998/99	86077	71288	8415	6950	1540	11148	2608	6801	265	527	5664	8982	295726	870	265	736	2091	1766
1999/2000	89680	76370	8685	5780	1450	11510	2290	5118	241	480	5788	5258	299320	847	292	609	1960	1901
2000/01	84980	69681	7530	6759	1431	12040	2732	3850	200	520	4190	6410	295956	854	301	345	1619	1900
2001/02	93340	72770	7560	8280	1420	13160	2370	5470	209	730	5083	7027	297210	826	301	546	1700	2102

Table 10.   Final Estimates for Area Under Principal Crops in Areas in Contemporary Pakistan, 1901/02 to 2001/02

Area (1000ha)

	Rice	Wheat	Jowar	Bajra	Barley	Maize	Gram	Sesamum	Rape and mustard	Sugar-cane	Tobacco	Cotton
1901/02	612	2166	579	813	187	362	226	79	189	83	14	294
1902/03	519	2358	737	1056	201	364	338	84	247	65	21	385
1903/04	532	3005	694	951	289	346	480	86	309	65	22	442
1904/05	506	2817	474	635	336	317	290	56	286	65	23	453
1905/06	558	3285	566	660	356	296	596	57	277	40	30	261
1906/07	640	3662	666	908	329	342	742	48	404	55	26	442
1907/08	536	2867	619	886	365	341	343	46	249	81	21	465
1908/09	551	3237	771	1107	326	355	745	87	367	74	20	569
1909/10	640	3266	575	1015	321	372	831	85	232	86	25	445
1910/11	656	3309	689	970	247	354	666	80	179	88	27	496
1911/12	600	3404	370	396	280	308	558	56	275	55	32	677
1912/13	635	3172	611	1029	209	328	552	77	140	64	21	619
1913/14	626	3257	697	1057	267	336	689	84	399	102	21	681
1914/15	655	3820	662	1036	373	317	823	119	401	76	26	703
1915/16	697	3336	404	561	281	343	635	47	322	75	25	353
1916/17	815	3623	719	1202	233	370	783	89	344	91	28	459
1917/18	754	3760	512	1026	270	362	985	57	517	105	25	660
1918/19	626	2926	300	512	262	347	546	17	181	97	27	692
1919/20	727	3396	514	986	301	338	765	44	243	98	23	908
1920/21	771	2806	396	831	175	309	554	39	135	98	20	819
1921/22	654	3272	603	1204	282	343	1007	50	493	93	36	513
1922/23	748	3644	436	952	271	336	1033	48	371	121	23	587
1923/24	744	3577	469	1003	197	323	883	38	252	109	26	800
1924/25	704	3564	515	960	187	296	974	39	360	86	24	1018
1925/26	775	3567	497	958	192	307	847	48	217	89	28	1084
1926/27	669	3509	531	978	171	307	909	39	219	104	26	1077
1927/28	735	3320	522	1039	178	350	809	46	200	118	30	796
1928/29	753	3563	514	940	252	334	853	40	377	103	27	1075
1929/30	807	3866	691	1255	249	346	944	41	388	91	23	934
1930/31	826	3463	523	1043	159	336	941	34	195	112	28	890
1931/32	733	3442	503	970	150	320	1154	37	246	124	36	854
1932/33	719	3504	614	1123	152	323	952	46	233	136	25	832
1933/34	767	3973	523	1082	150	328	1196	36	268	119	22	1051
1934/35	732	3665	469	982	153	353	919	43	183	111	33	1104
1935/36	732	3780	464	902	177	341	929	28	193	117	34	1365
1936/37	789	3761	462	897	181	334	1102	34	220	137	27	1457
1937/38	748	3981	437	830	201	342	744	36	204	122	36	1575
1938/39	828	3926	445	845	172	352	667	22	203	98	33	1457
1939/40	835	4009	427	768	200	343	709	20	285	115	36	1386
1940/41	870	4146	500	971	191	344	870	16	310	149	29	1434
1941/42	847	4124	494	1022	220	360	866	22	332	135	27	1477
1942/43	803	4433	532	1161	229	388	1067	19	404	124	29	1240
1943/44	958	4218	459	1030	206	374	1040	16	246	150	15	1447
1944/45	954	4377	564	1072	218	395	1148	22	331	158	24	1420
1945/46	1015	4336	418	964	170	405	1229	25	271	162	22	1331
1946/47	1061	4119	483	918	159	422	1016	27	238	167	18	1280
1947/48	790	3954	426	808	168	364	882	26	429	189	12	1237
1948/49	840	4286	478	942	232	382	1132	17	453	197	15	1051
1949/50	933	4183	551	959	201	401	971	20	367	219	17	1110
1950/51	968	4370	508	972	174	378	1115	23	461	188	21	1221
1951/52	884	4107	453	816	174	393	855	25	552	190	22	1342
1952/53	908	3817	533	895	196	393	823	24	427	253	17	1384
1953/54	1016	4215	612	1044	210	430	1037	27	436	292	25	1161

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Area (1000ha)

	Rice	Wheat	Jowar	Bajra	Barley	Maize	Gram	Sesamum	Rape and mustard	Sugar-cane	Tabacco	Cotton
1954/55	959	4261	455	887	182	430	1233	24	516	304	43	1269
1955/56	969	4521	537	891	183	429	1314	23	576	287	32	1407
1956/57	972	4689	549	926	183	431	1280	25	551	319	30	1438
1957/58	1073	4609	386	747	196	431	1214	26	545	397	37	1453
1958/59	1151	4829	443	811	198	456	1219	24	552	428	36	1325
1959/60	1204	4879	456	805	217	482	1142	31	561	397	38	1343
1960/61	1181	4639	476	746	187	480	1106	32	499	388	39	1293
1961/62	1215	4923	513	832	187	473	1194	44	451	444	45	1396
1962/63	1186	5022	486	851	196	459	1218	30	495	531	46	1374
1963/64	1286	5019	467	741	176	500	1113	27	475	478	44	1471
1964/65	1356	5318	585	910	185	486	1212	34	488	503	49	1467
1965/66	1393	5155	594	840	155	542	1069	28	442	597	58	1561
1966/67	1410	5344	558	837	162	554	1244	30	460	650	72	1620
1967/68	1420	5983	584	914	174	608	1120	32	542	504	70	1785
1968/69	1555	6160	474	736	156	616	958	28	442	541	65	1745
1969/70	1622	6230	491	631	157	648	928	23	479	620	60	1756
1970/71	1503	5977	558	750	141	640	914	31	510	636	61	1734
1971/72	1456	5797	507	759	155	633	964	42	562	552	51	1957
1972/73	1480	5971	500	612	164	645	1017	30	534	534	44	2011
1973/74	1512	6113	589	733	205	633	1108	33	536	646	47	1845
1974/75	1604	5812	445	545	194	614	997	23	452	672	54	2031
1975/76	1710	6111	476	624	186	620	1068	28	470	702	45	1851
1976/77	1749	6390	447	648	174	624	1094	30	519	786	51	1865
1977/78	1899	6360	520	641	167	656	1099	32	412	824	53	1843
1978/79	2026	6687	469	659	178	650	1224	46	433	753	48	1891
1979/80	2035	6924	423	561	159	701	1129	46	409	719	50	2081
1980/81	1933	6984	394	406	259	769	843	44	417	826	43	2109
1981/82	1976	7223	392	559	222	739	902	43	391	948	43	2214
1982/83	1978	7398	390	438	263	790	893	29	386	897	41	2263
1983/84	1999	7343	391	553	200	798	920	22	313	897	46	2221
1984/85	1999	7259	395	606	190	809	1014	34	347	905	50	2242
1985/86	1863	7403	372	561	188	804	1033	37	351	780	46	2364
1986/87	2066	7706	399	509	182	816	1082	33	303	763	39	2505
1987/88	1963	7308	320	293	145	854	821	18	269	850	42	2568
1988/89	2042	7730	431	510	158	866	979	25	334	877	43	2619
1989/90	2107	7845	440	512	155	863	1035	38	307	854	41	2599
1990/91	2113	7911	417	491	157	845	1092	53	304	884	44	2662
1991/92	2097	7878	383	313	149	848	997	70	287	896	54	2836
1992/93	1973	8300	403	487	160	868	1008	82	285	885	58	2836
1993/94	2187	8034	365	303	151	879	1045	73	269	963	57	2805
1994/95	2125	8170	438	509	165	890	1065	80	301	1009	47	2653
1995/96	2162	8377	418	407	172	939	1119	90	320	963	46	2997
1996/97	2251	8109	370	303	152	928	1100	100	354	965	49	3149
1997/98	2317	8355	390	460	163	933	1102	96	340	1056	53	2960
1998/99	2424	8230	383	463	137	962	1077	71	327	1155	57	2923
1999/2000	2515	8463	357	313	124	962	972	72	327	1010	56	2983
2000/01	2377	8181	354	390	113	944	905	101	272	961	46	2928
2001/02	2114	8058	358	417	111	942	934	136	269	1000	49	3120

Table 11. Final Estimates for Production of Principal Crops in Areas in Contemporary Pakistan, 1901/02 to 2001/02

(1000 metric tonnes)

	Rice	Wheat	Jowar	Bajra	Barley	Maize	Gram	Sesamum	Rape and mustard	Sugar-cane	Tabacco	Cotton
1901/02	502	1407	385	398	131	284	93	17	73	1296	14	26
1902/03	508	1931	587	508	166	299	170	27	98	958	21	29
1903/04	493	2795	498	482	272	359	290	27	176	1050	20	45
1904/05	469	2491	302	336	305	322	160	12	116	1123	23	50
1905/06	469	3972	400	265	339	268	375	13	122	541	28	14
1906/07	524	2520	557	567	261	411	333	16	170	1129	25	52
1907/08	322	2099	370	348	245	326	155	7	113	1295	23	51
1908/09	499	2770	526	621	344	298	512	21	183	1378	24	56
1909/10	630	2916	426	542	340	400	500	22	142	1650	28	55
1910/11	568	2913	464	488	247	440	436	26	82	1509	26	56
1911/12	619	2801	211	187	259	324	323	14	151	850	31	44
1912/13	581	2475	402	459	164	341	305	22	83	938	22	55
1913/14	532	2670	409	485	275	417	339	20	197	1523	25	97
1914/15	577	3230	428	408	363	325	401	35	201	1246	29	75
1915/16	653	2185	251	234	240	407	266	12	151	1373	29	29
1916/17	687	2557	531	579	198	369	340	23	155	1825	25	62
1917/18	552	3174	191	381	225	368	612	13	276	2112	26	61
1918/19	488	2372	122	155	242	375	292	3	110	1597	30	97
1919/20	773	3034	325	416	280	292	452	12	153	1904	22	119
1920/21	613	1793	182	302	103	285	232	8	64	1827	28	101
1921/22	708	3251	344	440	250	355	620	15	249	1885	36	53
1922/23	828	2887	305	471	228	348	565	13	213	2484	27	77
1923/24	747	2864	266	408	165	364	486	11	129	2376	31	127
1924/25	749	2248	284	414	161	330	492	11	163	1954	29	188
1925/26	735	2545	231	328	169	334	428	11	104	1835	27	144
1926/27	642	2598	268	416	148	281	498	10	105	2288	20	97
1927/28	640	1737	272	368	139	403	394	15	96	2298	27	100
1928/29	797	2781	258	338	212	354	475	11	136	2071	26	94
1929/30	761	3329	264	392	215	370	550	12	175	1841	23	135
1930/31	836	2731	254	379	136	388	533	9	87	2301	28	127
1931/32	778	2599	219	328	127	363	620	10	129	2557	33	91
1932/33	705	2639	305	403	128	340	496	13	86	2460	31	107
1933/34	751	2782	240	408	110	307	568	11	104	2527	25	213
1934/35	618	2866	238	384	118	384	495	11	92	2093	40	244
1935/36	640	2962	213	359	137	344	482	8	91	2468	40	260
1936/37	752	3184	242	368	152	390	472	9	123	3005	36	348
1937/38	789	3080	235	293	161	387	320	10	96	2270	68	271
1938/39	774	3146	225	345	126	375	244	5	98	1869	37	284
1939/40	696	3594	188	298	144	381	334	4	155	2563	42	236
1940/41	686	3137	279	367	131	369	367	3	174	3515	34	308
1941/42	712	3743	264	510	148	384	429	5	158	3236	30	330
1942/43	761	4168	313	725	168	374	607	6	211	3364	40	293
1943/44	1051	3495	268	498	140	379	573	5	126	4009	20	295
1944/45	989	3824	274	528	152	505	647	7	157	4661	35	264
1945/46	1029	3506	233	487	110	438	648	6	143	5350	42	258
1946/47	1096	3115	265	439	98	521	536	6	143	5492	26	272
1947/48	693	3354	205	301	113	359	472	9	175	5530	14	197
1948/49	748	4038	247	345	178	379	765	6	188	6947	18	172
1949/50	805	3924	271	376	148	407	608	6	144	7849	26	220
1950/51	865	3993	248	392	131	387	756	8	199	5506	30	250
1951/52	731	3010	208	269	101	383	428	7	200	5400	36	248
1952/53	832	2405	224	271	93	352	321	6	127	7266	26	317
1953/54	921	3645	232	468	129	408	570	6	166	8957	38	254

Table 11. Final Estimates for Production of Principal Crops in Areas in Contemporary Pakistan, 1901/02 to 2001/02

(1000 metric tonnes)

	Rice	Wheat	Jowar	Bajra	Barley	Maize	Gram	Sesamum	Rape and mustard	Sugar-cane	Tabacco	Cotton
1954/55	838	3186	225	355	106	433	603	6	219	8836	74	282
1955/56	841	3370	253	346	128	457	699	6	221	8200	49	299
1956/57	844	3639	259	369	116	469	692	6	226	8948	46	304
1957/58	977	3564	186	278	127	447	663	6	233	11295	56	304
1958/59	992	3907	215	314	129	489	577	6	266	12490	58	282
1959/60	995	3909	233	329	139	486	608	8	239	10663	61	292
1960/61	1030	3814	220	306	120	439	610	7	214	11639	60	301
1961/62	1127	4027	248	370	116	488	623	11	205	14357	70	324
1962/63	1095	4170	251	422	113	489	678	8	257	18440	71	366
1963/64	1192	4162	238	362	111	526	610	8	211	16141	75	419
1964/65	1350	4591	293	446	118	528	672	9	214	18669	83	378
1965/66	1317	3916	274	370	83	540	539	7	182	22311	110	415
1966/67	1365	4335	277	371	88	587	635	7	203	21983	140	463
1967/68	1499	6419	291	414	108	792	480	9	274	18924	130	518
1968/69	2032	6618	262	330	97	626	528	8	229	21972	125	528
1969/70	2401	7295	284	302	104	668	507	8	255	26371	116	536
1970/71	2200	6476	329	355	91	718	494	10	269	23167	113	543
1971/72	2262	6890	312	360	103	705	510	14	301	19963	87	708
1972/73	2330	7442	302	304	109	706	553	10	287	19948	63	702
1973/74	2455	7629	378	351	139	767	610	12	292	23910	66	659
1974/75	2314	7674	266	266	137	747	550	8	248	21241	77	635
1975/76	2618	8621	281	308	130	803	600	11	267	25547	58	514
1976/77	2737	9144	261	311	124	764	648	12	296	29528	73	435
1977/78	2950	8367	284	318	121	821	614	13	236	30077	74	575
1978/79	3213	9950	252	317	129	799	538	19	248	27326	68	474
1979/80	3216	10857	249	277	118	875	313	19	247	27498	78	729
1980/81	3123	11475	230	214	176	970	337	18	253	32359	67	715
1981/82	3430	11915	225	272	158	930	294	17	239	36580	69	749
1982/83	3445	12414	222	220	185	1005	491	11	246	31966	65	824
1983/84	3340	10882	222	256	140	1014	522	9	217	34287	80	495
1984/85	3315	11703	230	284	132	1028	524	14	235	32140	87	1009
1985/86	2919	13923	219	258	134	1009	586	15	250	27856	78	1218
1986/87	3486	12882	236	233	134	1111	583	13	213	29926	69	1321
1987/88	3241	12675	181	135	112	1127	372	7	204	33029	70	1469
1988/89	3200	14419	248	201	123	1204	456	10	249	36976	74	1427
1989/90	3220	14316	262	204	131	1179	562	15	233	35494	68	1457
1990/91	3261	14565	239	196	142	1185	531	21	228	35989	75	1639
1991/92	3243	15684	225	139	140	1203	513	29	220	38865	97	2182
1992/93	3116	16157	238	203	158	1184	347	34	207	38059	102	1541
1993/94	3995	15213	212	138	146	1213	411	32	197	44427	100	1369
1994/95	3447	17002	263	228	164	1318	559	36	229	47168	81	1480
1995/96	3967	16907	255	162	174	1504	680	40	255	45230	80	1803
1996/97	4305	16651	219	146	150	1491	594	45	286	41998	92	1595
1997/98	4333	18694	231	211	174	1517	767	43	292	53104	99	1563
1998/99	4674	17858	228	213	137	1665	698	32	279	55191	109	1496
1999/2000	5156	21079	220	156	118	1652	565	35	297	46333	108	1913
2000/01	4803	19024	219	199	99	1643	397	51	231	43606	85	1827
2001/02	3882	18226	222	216	100	1664	362	70	221	48042	95	1806

Table 12. Final Estimates for Area Under Principal Crops in Areas in Contemporary Bangladesh, 1901/02 to 2001/02

Area (1000ha)

	Rice, *aman*	Rice, *aus*	Rice, *boro*	Wheat	Barley	Maize	Gram	Linseed	Sesamum	Rape and mustard	Ground-nut	Sugar-cane	Tea	Tabacco	Cotton	Jute
1901/02	1642	6020	217	21.7	48.2	3.9	77.2	36.5	58.0	277.7	0.00	96.2	25.4	72.7	20.5	666.8
1902/03	1708	6221	225	21.6	46.0	3.9	79.8	39.3	54.4	276.8	0.00	99.2	25.8	68.7	23.4	620.9
1903/04	1653	5981	217	26.1	54.4	3.7	89.4	42.3	61.7	284.7	0.00	95.8	25.9	73.2	25.4	652.2
1904/05	1832	6584	240	26.2	54.7	3.8	82.2	40.4	76.0	287.2	0.00	95.5	25.8	75.8	28.1	839.3
1905/06	1737	6198	226	24.3	56.8	3.7	72.8	41.1	70.2	268.9	0.00	81.7	26.1	71.6	29.7	921.6
1906/07	1771	6281	230	26.8	53.3	3.6	80.5	38.9	70.9	285.5	0.00	77.9	26.0	68.3	31.7	1026.4
1907/08	1805	6358	233	20.7	45.5	3.7	58.8	31.9	60.4	273.9	0.00	90.8	26.4	72.5	30.5	1170.5
1908/09	1716	6004	221	24.7	42.0	3.7	67.9	32.3	66.3	260.1	0.00	74.5	29.0	70.2	28.2	841.5
1909/10	1941	6744	249	26.4	46.9	4.1	77.0	33.3	73.4	331.7	0.00	68.1	28.0	66.1	29.0	847.3
1910/11	1944	6712	249	28.6	49.6	3.8	80.0	35.5	73.9	311.7	0.00	70.5	29.3	63.1	31.9	865.5
1911/12	1929	6615	246	29.1	54.5	3.6	91.4	37.3	58.3	304.1	0.01	70.6	30.0	61.9	30.5	915.0
1912/13	1882	6412	239	27.4	50.8	3.7	84.2	36.0	78.0	318.7	0.01	70.3	30.3	63.0	31.0	875.0
1913/14	1844	6239	233	26.0	51.3	3.7	97.4	38.6	73.1	311.8	0.01	70.0	32.0	62.4	34.6	857.5
1914/15	1867	6275	235	29.6	50.8	3.2	103.9	33.4	74.5	312.3	0.01	72.2	32.7	61.7	34.6	989.3
1915/16	1912	6383	240	27.6	51.3	3.6	112.2	39.6	67.4	311.0	0.01	71.5	33.1	66.1	25.0	700.3
1916/17	1942	6441	243	30.0	50.2	3.4	114.1	40.6	66.8	305.9	0.01	70.2	34.2	65.3	30.7	796.4
1917/18	1908	6285	237	32.3	53.5	3.6	124.4	43.9	61.5	299.8	0.01	68.4	34.5	58.4	35.7	805.8
1918/19	1896	6204	235	21.8	48.7	3.9	103.9	36.3	69.4	271.0	0.01	71.7	34.6	67.8	29.4	736.0
1919/20	1928	6265	238	27.3	52.9	3.8	122.1	38.5	62.8	259.5	0.02	71.5	35.5	63.6	32.7	836.4
1920/21	1918	6193	236	23.6	51.5	3.8	118.7	36.8	60.3	239.5	0.02	73.9	35.4	54.1	29.8	738.9
1921/22	2083	6335	205	25.7	52.6	4.1	117.9	37.5	65.3	245.1	0.02	76.2	36.6	62.7	25.8	447.0
1922/23	1922	6508	221	28.2	54.3	3.7	122.3	39.1	57.0	229.0	0.03	72.9	37.2	63.3	30.6	529.9
1923/24	1840	5942	222	28.5	51.4	3.7	114.4	39.5	56.7	224.3	0.03	73.0	37.5	59.3	33.2	821.1
1924/25	1808	6245	232	29.0	51.6	3.6	115.0	40.5	56.4	228.1	0.04	71.4	37.6	56.1	37.6	816.0
1925/26	1892	6187	204	27.8	51.8	3.7	110.7	39.8	57.6	231.3	0.04	73.1	39.0	60.8	39.8	917.9
1926/27	1889	5791	227	28.5	49.6	3.7	114.4	37.0	59.9	217.5	0.05	70.5	39.3	60.6	34.7	1133.4
1927/28	1929	5406	224	29.3	50.1	3.7	103.7	36.1	60.8	210.8	0.06	71.0	39.8	60.1	34.8	993.6
1928/29	2076	6075	216	29.2	53.4	3.7	111.0	40.3	59.7	208.7	0.07	68.6	41.2	60.5	38.0	925.9
1929/30	1874	5929	220	28.9	52.7	3.9	119.7	40.8	54.7	199.0	0.08	68.8	41.7	59.9	36.4	1006.0
1930/31	1877	6010	207	29.4	52.5	3.6	125.4	37.7	60.1	210.0	0.09	69.6	42.6	57.5	33.4	1023.5
1931/32	2234	6074	211	30.8	52.4	3.8	125.2	39.3	59.8	215.9	0.10	74.7	42.7	58.2	33.4	548.9
1932/33	2060	5967	207	30.1	58.6	4.0	126.7	37.8	61.5	206.5	0.12	77.8	42.8	59.5	31.5	631.1
1933/34	2071	5979	211	32.9	50.4	3.8	127.3	38.5	61.6	199.5	0.28	97.5	43.4	57.6	33.7	741.8
1934/35	2050	5842	221	31.5	58.5	3.7	128.0	37.7	60.8	203.9	0.16	106.1	43.8	59.5	33.5	786.9
1935/36	2093	5711	213	30.8	51.7	3.8	119.8	35.2	58.2	195.5	0.57	114.7	43.9	60.4	36.2	642.8
1936/37	1958	5783	217	25.0	42.4	3.5	86.2	31.7	63.4	199.0	0.22	121.0	44.2	63.0	24.0	829.0
1937/38	1962	5730	204	26.7	42.8	3.3	90.1	32.7	65.2	202.3	0.26	97.2	44.0	63.0	24.9	829.7
1938/39	1933	5752	212	26.6	43.0	3.2	90.7	33.5	65.3	199.4	0.30	100.8	43.8	60.7	22.7	909.2
1939/40	1967	5933	211	29.9	36.5	1.6	101.4	37.4	63.6	208.5	0.35	108.2	43.7	65.7	25.9	957.7
1940/41	1882	5578	224	28.5	41.3	2.6	112.9	38.5	61.0	204.9	0.41	112.9	43.6	68.0	32.0	1831.5
1941/42	2066	5867	231	28.0	40.7	2.6	111.0	39.1	63.5	201.8	0.48	108.9	43.7	67.1	32.0	559.2
1942/43	2080	5867	221	28.7	47.3	7.6	107.2	37.0	57.1	193.0	0.56	105.8	43.8	66.0	32.0	1004.2
1943/44	2299	6494	243	32.4	46.8	4.1	109.6	37.3	63.8	197.5	0.66	126.6	43.8	63.3	22.7	784.4
1944/45	2350	6523	245	41.2	60.6	5.8	129.1	35.2	79.0	178.8	0.77	114.5	43.6	69.1	32.4	616.0
1945/46	2337	6033	236	35.1	42.7	3.1	98.8	31.9	67.7	182.7	0.89	111.4	44.0	69.7	36.8	745.3
1946/47	2217	5878	282	27.9	33.5	4.0	79.4	33.0	64.4	217.2	1.04	104.6	44.8	90.1	21.5	562.7
1947/48	1983	5401	307	34.4	29.5	2.4	84.2	27.9	55.4	174.8	1.2	91.5	28.3	53.0	22.3	833.3
1948/49	1924	5609	329	38.4	34.4	2.8	83.4	27.5	51.8	187.4	1.6	91.9	29.5	51.0	22.3	759.6
1949/50	1891	5671	341	39.3	34.8	4.9	81.3	29.9	52.6	193.0	2.4	92.7	29.9	51.8	22.3	631.7
1950/51	2128	5644	324	38.0	33.2	5.3	80.9	24.3	57.9	197.5	2.4	92.3	30.4	51.8	22.3	692.4
1951/52	2205	5677	334	38.9	33.2	4.0	80.9	24.7	57.9	203.2	2.4	93.1	30.4	52.6	22.7	720.0
1952/53	2225	5845	339	39.7	34.8	4.0	81.7	25.5	59.5	205.2	2.8	100.4	29.5	53.0	23.5	771.8
1953/54	2559	6008	340	39.7	34.0	4.0	82.2	26.3	60.3	204.4	2.8	106.4	30.4	53.0	23.5	390.5

Table 12. Final Estimates for Area Under Principal Crops in Areas in Contemporary Bangladesh, 1901/02 to 2001/02

Area (1000ha)

	Rice, *aman*	Rice, *aus*	Rice, *boro*	Wheat	Barley	Maize	Gram	Linseed	Sesamum	Rape and mustard	Ground-nut	Sugar-cane	Tea	Tabacco	Cotton	Jute
1954/55	2442	5846	347	41.7	34.8	3.6	87.4	26.3	61.1	210.8	2.8	107.6	29.9	54.6	23.5	503.0
1955/56	2355	5256	278	38.0	35.6	3.6	71.2	25.9	61.9	219.7	4.0	104.8	31.2	45.7	21.0	661.3
1956/57	2425	5414	278	53.8	29.5	2.4	66.8	19.4	61.9	189.4	6.1	103.2	30.8	44.1	21.4	497.8
1957/58	2342	5517	330	43.3	23.1	2.8	55.0	8.1	50.2	161.1	5.7	102.0	30.8	43.3	20.6	632.5
1958/59	2285	5320	344	40.1	24.3	2.0	57.1	31.6	56.3	224.2	11.7	98.7	30.8	44.9	20.6	618.4
1959/60	2406	5783	371	55.8	25.9	2.8	53.8	29.9	57.5	233.9	11.3	113.7	31.6	44.5	21.0	556.5
1960/61	2550	5900	408	56.7	29.9	8.9	60.3	19.4	53.8	225.8	12.1	112.9	32.0	41.3	19.0	614.3
1961/62	2377	5699	408	58.7	33.6	8.9	57.5	19.8	57.5	238.8	11.7	117.4	32.0	43.7	15.8	834.1
1962/63	2506	5755	433	73.7	30.8	6.9	55.8	23.1	53.0	233.1	9.3	128.7	32.8	41.3	16.2	697.3
1963/64	2665	5910	433	57.5	23.9	5.3	51.8	20.6	52.2	202.3	8.1	140.0	35.6	40.9	15.4	688.0
1964/65	2689	6114	426	53.4	20.6	4.0	51.4	21.4	51.0	185.8	9.3	144.1	37.2	41.7	14.2	671.8
1965/66	2963	5938	460	55.0	21.9	4.0	54.6	21.9	50.2	191.8	10.1	153.4	38.4	44.1	15.0	889.5
1966/67	2845	5743	482	72.8	22.7	3.6	59.1	17.8	50.2	197.1	16.6	167.1	39.7	45.7	14.6	876.2
1967/68	3327	5942	621	77.7	24.7	3.6	61.5	15.0	52.2	214.5	28.3	166.7	40.9	45.3	14.6	991.5
1968/69	3099	5828	815	117.4	28.3	3.2	68.4	14.6	53.0	223.4	33.6	164.7	42.5	45.7	13.8	897.2
1969/70	3425	6006	883	119.8	29.5	3.2	70.0	14.6	50.6	216.9	32.4	161.5	43.3	45.7	13.8	997.6
1970/71	3191	5740	981	125.9	37.2	3.2	64.8	15.0	44.9	214.9	31.6	163.5	44.5	44.1	13.0	917.8
1971/72	3002	5411	866	127.1	28.7	2.8	71.6	12.9	47.5	188.6	26.7	140.4	44.5	40.9	11.3	678.2
1972/73	2930	5714	1003	120.2	25.9	2.8	60.3	11.7	47.7	191.4	22.9	128.3	44.5	46.9	8.9	896.3
1973/74	3108	5719	1223	123.4	24.3	2.8	55.8	12.5	43.5	176.4	20.8	147.3	44.5	46.5	7.7	888.6
1974/75	3179	5450	1161	125.8	25.5	2.6	55.8	14.2	51.1	196.2	19.5	153.6	43.3	45.3	7.3	573.4
1975/76	3420	5760	1148	150.1	25.5	2.4	54.2	14.2	54.3	193.0	22.2	133.1	42.9	49.4	6.1	516.7
1976/77	3217	5806	854	159.8	23.5	2.4	55.8	14.6	51.6	194.2	21.0	144.5	41.7	68.0	5.3	648.6
1977/78	3162	5771	1094	189.0	21.4	2.4	57.1	14.6	54.8	205.6	23.5	153.8	42.9	55.4	5.3	730.4
1978/79	3235	5805	1072	264.6	19.8	2.0	55.8	14.6	47.9	212.8	25.0	155.0	43.3	49.8	6.9	829.9
1979/80	3036	5973	1148	433.0	19.4	2.0	57.9	14.6	48.3	195.0	22.9	145.3	43.3	44.9	6.1	758.3
1980/81	3111	6036	1160	591.2	18.2	2.0	57.9	15.0	55.7	201.5	23.9	148.9	44.1	51.4	7.7	634.9
1981/82	3146	6010	1302	533.7	15.0	2.0	53.4	15.0	62.9	183.0	21.9	161.0	45.2	55.0	16.6	571.3
1982/83	3158	5993	1433	519.1	12.5	2.0	54.2	14.6	60.8	186.5	20.8	165.9	44.5	52.2	19.8	576.6
1983/84	3139	6007	1401	526.0	28.7	4.1	45.9	14.6	79.2	242.8	20.0	166.7	44.5	51.8	17.4	688.3
1984/85	2938	5710	1574	676.1	24.7	3.6	44.0	12.5	66.4	256.8	17.4	163.5	44.5	51.8	12.9	676.1
1985/86	2845	6019	1533	540.2	21.8	3.2	41.9	12.9	70.4	259.6	18.6	160.2	44.5	53.4	17.0	1057.7
1986/87	2904	6052	1652	584.7	19.4	3.2	41.9	13.8	65.6	228.2	18.6	164.7	45.7	46.1	12.5	772.0
1987/88	2788	5590	1943	597.2	17.8	3.2	41.8	7.5	82.1	317.6	38.4	173.2	46.5	47.3	11.7	512.3
1988/89	2683	5101	2438	560.0	18.6	3.4	41.6	7.6	81.3	333.8	38.0	172.0	46.5	45.7	17.0	543.4
1989/90	2255	5703	2454	592.0	18.6	3.5	41.6	7.7	71.6	338.3	38.4	186.5	47.3	44.9	19.0	541.8
1990/91	2107	5775	2548	598.9	17.8	3.1	39.1	7.7	82.9	339.1	38.4	191.0	47.7	38.0	18.6	583.5
1991/92	1916	5692	2635	574.6	16.2	3.6	37.4	7.5	80.5	339.9	38.8	187.3	47.7	36.8	18.6	587.9
1992/93	1735	5844	2599	636.9	12.1	5.1	27.5	7.5	82.5	338.3	36.6	184.5	47.7	36.0	19.8	500.1
1993/94	1649	5843	2581	615.1	10.1	6.4	34.6	7.5	85.9	336.5	36.5	180.8	47.8	36.0	18.8	478.1
1994/95	1664	5604	2664	639.4	9.3	9.9	34.4	7.3	80.1	336.3	35.6	180.0	47.8	36.0	20.2	559.7
1995/96	1542	5646	2753	700.9	9.3	10.1	34.4	7.0	79.7	336.3	35.6	189.1	48.2	36.4	19.9	458.5
1996/97	1592	5803	2783	707.8	9.3	12.7	34.2	7.0	79.7	336.3	34.8	191.0	48.2	34.8	20.8	507.0
1997/98	1565	5811	2890	804.6	9.3	14.9	34.0	7.0	79.6	343.6	34.7	175.1	48.6	32.8	21.5	577.3
1998/99	1424	5167	3528	882.4	8.6	18.5	35.0	6.4	78.2	344.1	34.8	173.9	48.5	31.8	17.3	478.1
1999/2000	1352	5708	3653	832.8	9.2	22.6	16.6	6.7	74.6	328.7	34.0	170.5	48.6	31.2	19.5	408.1
2000/01	1326	5713	3763	772.9	5.7	26.0	16.2	7.0	73.6	317.8	33.2	168.8	48.6	30.0	18.3	448.2
2001/02	1242	5648	3772	741.8	4.1	30.1	15.4	7.0	73.6	303.1	28.9	162.7	49.5	30.6	20.7	456.5

Table 13. Final Estimates for Production of Principal Crops in Areas in Contemporary Bangladesh, 1901/02 to 2001/02

(1000 metric tonnes)

	Rice, *aman*	Rice, *aus*	Rice, *boro*	Wheat	Barley	Maize	Gram	Linseed	Sesamum	Rape and mustard	Ground-nut	Sugar-cane	Tea	Tabacco	Cotton	Jute
1901/02	1290	7007	253	11.9	28.4	3.5	58.7	15.8	21.6	126.9	0.00	256.0	10.0	80.4	2.7	1047.5
1902/03	1705	9158	333	15.6	26.2	3.5	59.4	22.1	20.8	116.7	0.00	253.4	9.5	77.0	3.3	926.3
1903/04	1553	8243	300	18.8	31.4	3.4	67.0	23.1	27.0	123.0	0.00	251.6	11.1	77.6	3.0	1019.8
1904/05	1819	9543	349	14.8	32.3	3.3	61.2	16.3	22.7	124.7	0.00	253.4	11.6	76.5	3.7	1042.2
1905/06	1553	8057	296	16.7	32.1	3.7	52.7	18.2	25.6	96.5	0.00	198.6	11.6	62.8	3.3	1146.5
1906/07	1422	7294	269	16.6	30.5	3.7	59.4	16.2	32.7	112.5	0.00	198.4	13.0	63.6	4.8	1296.5
1907/08	1283	6502	241	11.9	25.3	3.3	42.4	12.6	17.6	95.4	0.00	236.9	13.3	58.1	3.0	1382.7
1908/09	1183	5930	220	14.7	22.4	3.0	47.6	10.6	24.7	76.8	0.00	159.1	13.3	84.9	3.6	888.8
1909/10	2043	10121	377	18.5	27.3	4.1	58.3	17.4	38.7	151.2	0.00	184.8	13.2	88.5	4.6	1015.0
1910/11	2058	10079	377	19.7	30.4	4.3	63.3	19.6	39.8	157.9	0.00	214.0	14.2	84.8	3.7	1117.1
1911/12	1978	9577	360	19.4	27.5	3.7	79.0	22.7	31.9	138.3	0.00	221.4	14.3	81.0	3.2	1159.8
1912/13	1506	7207	272	19.3	25.2	3.4	68.6	20.3	31.7	148.2	0.00	218.9	15.6	84.2	4.4	1386.2
1913/14	1616	7645	289	16.1	31.3	3.5	83.7	26.2	35.7	154.5	0.00	216.5	17.6	56.2	4.9	1252.6
1914/15	1280	5983	227	19.4	28.3	2.7	64.9	17.7	31.9	119.5	0.00	196.0	16.7	82.8	5.0	1477.9
1915/16	1798	8311	317	16.5	28.3	3.2	87.5	23.2	28.8	130.8	0.00	208.6	19.6	88.8	3.6	1034.3
1916/17	1843	8423	323	19.8	32.7	3.5	102.1	25.6	28.8	146.9	0.00	204.4	20.0	83.6	4.3	1170.2
1917/18	1934	8736	336	19.2	29.7	4.0	96.7	28.8	23.3	145.2	0.00	228.4	20.1	65.7	3.9	1248.8
1918/19	1291	5764	222	14.5	25.8	3.3	65.5	17.7	25.6	101.4	0.00	213.7	20.2	90.8	3.8	979.6
1919/20	1729	7633	296	19.3	31.4	4.2	97.7	23.2	30.6	119.5	0.00	255.0	22.2	82.6	5.6	1194.4
1920/21	1489	6496	278	12.9	30.5	4.4	92.7	18.6	25.6	102.8	0.00	237.8	15.8	79.3	3.7	833.0
1921/22	1716	7909	226	19.1	35.1	5.2	97.0	24.0	32.2	110.7	0.00	245.6	13.0	84.0	4.7	561.2
1922/23	1554	8516	259	19.3	29.1	2.6	102.6	24.4	28.3	99.0	0.01	214.7	16.1	86.0	5.3	761.6
1923/24	1433	6227	237	18.7	30.3	3.6	82.7	22.5	26.2	94.5	0.01	225.7	19.5	72.8	5.4	1183.2
1924/25	1352	7136	256	17.1	30.7	2.0	79.9	20.6	26.8	113.0	0.01	197.5	19.5	74.3	6.3	1135.4
1925/26	1278	6888	192	16.8	29.4	3.5	79.2	17.9	24.6	88.5	0.01	237.4	19.2	60.3	6.5	1259.1
1926/27	1417	6101	219	17.3	29.4	3.3	87.1	17.4	25.8	95.4	0.01	220.1	21.0	49.2	5.2	1708.6
1927/28	1367	5385	244	15.1	26.7	3.7	64.8	14.4	30.4	99.0	0.02	231.3	21.6	76.4	6.2	1434.8
1928/29	1710	7775	241	16.6	30.6	3.1	79.2	19.6	30.7	106.9	0.02	223.1	21.6	63.8	6.0	1395.1
1929/30	1521	7225	259	20.2	30.2	4.2	94.6	18.6	27.5	105.8	0.03	223.8	25.0	66.9	5.5	1455.5
1930/31	1668	7461	255	18.0	31.1	3.7	89.8	17.0	29.6	101.5	0.03	236.3	21.9	61.1	5.5	1578.1
1931/32	1931	7542	238	17.5	29.6	3.8	85.6	17.1	28.2	98.0	0.04	248.5	20.2	59.8	4.3	780.5
1932/33	1763	6653	271	18.3	32.2	3.9	84.0	19.8	32.4	105.1	0.05	329.6	24.7	65.1	4.7	996.0
1933/34	1732	6308	268	18.1	26.4	3.2	84.1	19.2	33.5	106.8	0.13	465.4	22.4	58.3	5.3	1124.8
1934/35	1534	6411	286	18.9	34.3	3.1	86.4	19.4	31.6	113.6	0.07	504.3	22.3	65.4	5.0	1197.1
1935/36	1601	4796	241	18.3	22.9	3.4	72.8	15.5	29.7	95.9	0.28	526.0	21.8	61.0	6.2	1016.1
1936/37	1534	7201	236	16.9	25.1	3.2	63.4	16.9	36.0	132.1	0.11	521.3	23.3	69.6	5.0	1326.3
1937/38	1540	6525	249	18.6	26.7	2.9	64.5	17.7	40.3	112.0	0.13	416.0	25.4	68.3	4.6	1194.5
1938/39	1112	5761	265	17.2	23.6	2.4	61.6	16.3	29.1	106.2	0.16	395.3	24.9	66.0	4.1	941.0
1939/40	1340	6072	237	19.9	20.6	1.3	70.2	16.9	28.7	96.6	0.20	450.6	25.6	66.8	5.4	1406.1
1940/41	1143	4380	244	14.1	19.7	2.7	67.3	13.8	29.2	88.1	0.26	455.9	28.5	58.1	6.1	1909.8
1941/42	1590	6459	261	16.4	23.6	2.6	78.5	18.5	29.2	93.3	0.28	399.0	27.8	71.6	5.2	691.8
1942/43	1318	4639	252	21.1	29.2	5.0	82.3	18.3	26.8	89.2	0.33	361.4	33.5	70.3	6.1	1324.7
1943/44	2001	7803	283	21.1	25.8	3.8	72.1	16.1	31.6	88.2	0.46	448.2	33.7	64.2	3.7	988.7
1944/45	1796	6207	271	23.8	35.4	5.6	80.2	12.9	40.7	75.7	0.54	386.7	28.8	70.1	5.7	898.7
1945/46	1799	5807	250	18.6	22.1	2.3	55.0	11.9	36.2	78.3	0.58	422.0	33.3	67.2	4.7	1131.3
1946/47	1708	5720	306	14.2	22.1	2.4	42.6	12.4	29.8	95.4	0.75	385.3	36.7	90.2	3.6	767.3
1947/48	1432	4985	319	20.0	15.0	2.0	51.0	12.0	28.0	78.0	1.0	327.2	13.0	45.0	2.0	1222.0
1948/49	1408	5997	268	19.0	16.0	2.0	50.0	11.0	24.0	83.0	1.0	341.1	15.0	46.0	3.0	978.0
1949/50	1254	5744	379	23.0	17.0	3.0	52.0	12.0	21.0	85.0	2.0	310.0	17.0	42.0	3.0	595.0
1950/51	1790	5273	280	20.0	15.0	3.0	47.0	9.0	27.0	89.0	2.0	333.6	17.0	43.0	3.0	1072.0
1951/52	1592	5111	330	23.0	16.0	2.0	52.0	11.0	28.0	100.0	2.0	342.7	21.0	45.0	3.0	1131.0
1952/53	1655	5329	351	24.0	16.0	3.0	53.0	11.0	30.0	103.0	2.0	367.5	23.0	49.0	3.0	1218.0
1953/54	2152	5748	345	24.0	16.0	3.0	54.0	11.0	30.0	100.0	2.0	396.6	23.0	49.0	3.0	645.0

Table 13.   Final Estimates for Production of Principal Crops in Areas in Contemporary Bangladesh, 1901/02 to 2001/02

(1000 metric tonnes)

	Rice, *aman*	Rice, *aus*	Rice, *boro*	Wheat	Barley	Maize	Gram	Linseed	Sesamum	Rape and mustard	Ground-nut	Sugar-cane	Tea	Tabacco	Cotton	Jute
1954/55	1957	5264	367	26.0	17.0	2.0	63.0	12.0	30.0	105.0	3.0	369.5	24.0	52.0	3.0	832.0
1955/56	1796	4256	333	22.0	17.0	3.0	44.0	11.0	31.0	104.0	6.0	397.5	23.0	40.0	3.0	1161.0
1956/57	2159	5789	237	23.0	16.0	2.0	35.0	8.0	27.0	93.0	9.0	391.1	24.0	40.0	2.0	985.0
1957/58	2085	5154	359	22.0	12.0	2.0	35.0	3.0	21.0	67.0	8.0	376.5	20.0	35.0	2.0	1107.0
1958/59	1560	4970	391	25.0	14.0	1.0	38.0	13.0	28.0	105.0	16.0	383.4	24.0	42.0	3.0	1071.0
1959/60	2095	5988	399	29.0	12.0	2.0	29.0	12.0	26.0	83.0	15.0	361.1	25.0	27.0	3.0	992.0
1960/61	2497	6574	448	32.0	17.0	7.0	36.0	10.0	24.0	97.0	16.0	395.5	19.0	26.0	3.0	1004.0
1961/62	2328	6652	485	39.0	18.0	7.0	37.0	10.0	26.0	103.0	13.0	441.8	26.0	31.0	3.0	1244.0
1962/63	2202	6046	482	44.0	21.0	5.0	34.0	11.0	26.0	104.0	13.0	474.9	23.0	29.0	3.0	1125.0
1963/64	2657	7290	509	34.0	13.0	4.0	33.0	9.0	25.0	89.0	12.0	536.3	25.0	28.0	3.0	1049.0
1964/65	2501	7262	574	34.0	12.0	3.0	37.0	9.0	22.0	90.0	12.0	623.1	28.0	27.0	3.0	951.0
1965/66	2918	6799	618	35.0	12.0	3.0	43.0	9.0	24.0	95.0	14.0	755.0	27.0	27.0	3.0	1195.0
1966/67	2655	5936	833	58.0	15.0	3.0	48.0	9.0	27.0	102.0	24.0	807.0	28.0	37.0	3.0	1142.0
1967/68	3060	6812	1114	58.0	16.0	3.0	47.0	7.0	30.0	120.0	41.0	758.9	29.0	39.0	3.0	1243.0
1968/69	2683	6870	1612	92.0	18.0	3.0	54.0	7.0	31.0	128.0	52.0	729.7	28.0	40.0	2.0	1050.0
1969/70	2963	6950	1903	103.0	19.0	3.0	57.0	8.0	30.0	126.0	52.0	741.8	30.0	41.0	2.0	1281.0
1970/71	2863	5912	2192	110.0	26.0	3.0	51.9	8.0	27.0	136.0	46.0	759.8	31.0	39.0	2.0	1251.0
1971/72	2341	5695	1738	113.0	21.0	2.2	58.6	6.6	28.5	112.0	35.8	568.6	11.8	34.0	1.7	760.8
1972/73	2243	5587	2071	90.0	16.0	2.2	40.0	5.3	27.4	108.0	30.9	531.9	23.7	40.0	1.4	1181.9
1973/74	2801	6699	2220	109.0	15.0	2.3	40.0	6.0	25.1	97.5	27.3	634.2	26.8	41.0	1.1	1088.6
1974/75	2859	6000	2250	115.0	16.0	2.3	38.7	7.0	28.0	114.4	25.9	663.5	31.5	40.0	1.1	630.7
1975/76	3229	7045	2286	215.0	17.0	2.0	38.2	7.3	28.5	110.0	31.1	588.6	28.9	45.0	0.8	714.5
1976/77	3014	6905	1650	255.0	15.0	2.0	40.2	7.3	27.3	112.4	23.0	640.1	33.0	63.0	0.7	872.0
1977/78	3103	7422	2239	343.0	13.0	2.0	43.9	7.3	29.5	132.0	27.2	667.0	36.4	49.0	0.9	972.3
1978/79	3287	7429	1929	486.0	12.0	2.0	42.3	7.2	27.5	135.0	27.6	682.6	37.7	43.0	1.2	1168.8
1979/80	2809	7303	2427	827.0	12.0	1.0	39.0	7.0	25.0	116.0	26.0	634.0	36.6	40.0	1.1	1081.7
1980/81	3289	7964	2630	1092.0	11.0	1.0	38.0	7.0	28.5	122.0	25.0	660.0	39.7	47.0	1.7	896.8
1981/82	3270	7209	3152	966.0	10.0	1.0	37.0	8.0	34.5	123.0	24.0	713.6	38.8	51.0	3.5	843.0
1982/83	3065	7516	3548	1098.0	9.0	1.0	41.0	8.0	33.0	122.0	23.0	725.7	40.4	50.0	3.6	885.6
1983/84	3222	7843	3350	1229.0	18.0	3.0	35.2	8.2	57.0	169.3	33.0	696.0	42.2	48.0	2.9	946.4
1984/85	2783	7930	3909	1483.0	15.0	3.0	32.8	7.4	46.0	190.0	32.0	687.8	37.9	49.0	1.8	927.1
1985/86	2828	8542	3671	1060.0	14.0	3.0	31.6	7.4	54.0	174.0	34.0	664.0	43.3	46.0	1.5	1571.2
1986/87	3130	8267	4010	1092.0	12.0	3.0	33.2	8.6	49.0	152.7	34.0	698.9	37.6	40.0	1.4	1225.2
1987/88	2993	7690	4731	1048.0	11.0	2.9	30.4	4.3	49.0	222.0	48.0	720.7	40.6	42.0	2.3	852.8
1988/89	2856	6857	5831	1022.0	11.0	3.2	26.7	4.6	45.0	207.0	45.0	670.7	44.0	39.0	2.6	807.0
1989/90	2475	9202	6033	890.0	12.0	3.3	28.3	4.6	42.0	217.0	41.0	742.3	39.0	38.0	4.8	841.7
1990/91	2261	9167	6357	1004.0	11.0	3.0	28.7	5.5	47.0	228.0	41.0	768.2	46.0	34.0	5.5	962.0
1991/92	2179	9269	6807	1065.0	12.0	3.0	26.3	4.9	45.0	243.0	42.0	744.6	45.0	34.0	4.9	956.7
1992/93	2075	9680	6586	1176.0	11.0	7.0	21.4	4.9	49.0	244.0	39.0	750.7	50.8	36.0	5.6	807.9
1993/94	1850	9419	6772	1131.0	6.2	15.0	24.9	4.8	58.0	239.1	41.0	711.1	50.5	38.0	5.1	805.9
1994/95	1791	8504	6538	1245.0	6.0	29.1	25.1	4.9	50.0	245.0	40.0	744.6	52.0	38.2	5.8	960.8
1995/96	1676	8790	7221	1369.0	6.0	32.0	24.7	4.6	49.0	246.0	40.0	716.5	48.0	39.0	5.9	733.9
1996/97	1870	9551	7459	1454.0	6.0	40.7	24.7	5.0	49.0	249.0	40.0	752.0	53.0	38.0	6.0	882.9
1997/98	1875	8850	8137	1802.8	6.0	65.3	24.2	5.0	49.0	253.6	39.5	737.9	50.5	36.7	6.1	1056.7
1998/99	1617	7736	10552	1908.4	5.4	84.5	25.0	4.6	47.9	252.5	38.8	695.1	56.2	28.8	3.9	812.0
1999/2000	1734	10306	11027	1840.0	5.8	120.7	12.0	4.8	44.0	249.0	42.0	691.0	46.0	35.0	4.0	711.4
2000/01	1916	11249	11920	1673.0	4.0	149.2	12.0	5.0	44.0	238.0	41.0	674.2	52.0	37.0	2.5	821.2
2001/02	1808	10726	11766	1606.0	2.8	172.4	11.0	5.0	44.0	233.0	42.0	650.2	52.0	38.0	5.3	858.7

Table 14. Implicit Prices to Aggregate Outputs of Principal Crops

1. India	Levels (Rs/kg)			Relative price (wheat=1)		
	1938/39	1960/61	1980/81	1938/39	1960/61	1980/81
Rice	0.098	0.564	1.803	1.300	1.393	1.256
Wheat	0.075	0.405	1.435	1.000	1.000	1.000
Jowar	0.068	0.339	1.481	0.910	0.836	1.032
Bajra	0.073	0.414	1.328	0.977	1.021	0.925
Barley	0.062	0.308	1.215	0.832	0.760	0.846
Maize	0.061	0.338	1.288	0.812	0.834	0.897
Ragi	0.060	0.398	1.314	0.803	0.984	0.915
Gram	0.086	0.358	3.085	1.150	0.883	2.149
Linseed	0.117	0.678	4.294	1.561	1.673	2.992
Sesamum	0.128	1.082	5.120	1.710	2.670	3.566
Rape and mustard	0.128	0.747	4.416	1.708	1.845	3.077
Groundnut	0.058	0.656	3.372	0.770	1.619	2.349
Sugarcane	0.015	0.041	0.249	0.198	0.102	0.174
Tea	1.432	2.699	7.248	19.085	6.664	5.049
Coffee	0.804	2.543	10.914	10.715	6.277	7.603
Tabacco	0.340	2.594	8.500	4.533	6.405	5.921
Cotton (lint)	0.386	2.940	14.098	5.148	7.258	9.821
Jute	0.152	1.069	1.653	2.029	2.639	1.152

2. Pakistan	Levels (Rs/kg)			Relative price (wheat=1)		
	1938/39	1959/60	1980/81	1938/39	1959/60	1980/81
Rice	0.098	0.537	2.416	1.300	1.324	1.906
Wheat	0.075	0.405	1.267	1.000	1.000	1.000
Jowar	0.068	0.338	1.556	0.910	0.835	1.228
Bajra	0.073	0.361	2.146	0.751	0.890	1.694
Barley	0.062	0.297	1.402	0.832	0.731	1.106
Maize	0.061	0.356	1.624	0.812	0.878	1.281
Gram	0.086	0.387	4.380	1.150	0.954	3.457
Sesamum	0.128	0.800	4.809	1.710	1.973	3.795
Rape and mustard	0.128	0.613	2.839	1.708	1.512	2.241
Sugarcane	0.015	0.050	0.241	0.198	0.123	0.190
Tobacco	0.340	2.499	9.330	4.533	6.165	7.363
Cotton (lint)	0.386	2.658	12.809	5.148	6.557	10.109

3. Bangladesh	Levels (Rs or Taka/kg)			Relative price (rice=1)		
	1938/39	1959/60	1980/81	1938/39	1959/60	1980/81
Rice	0.098	0.537	2.899	1.000	1.000	1.000
Wheat	0.075	0.405	2.848	0.769	0.755	0.982
Barley	0.062	0.338	2.617	0.640	0.631	0.903
Maize	0.061	0.356	2.617	0.625	0.663	0.903
Gram	0.086	0.387	5.529	0.885	0.720	1.907
Linseed	0.117	0.868	5.900	1.201	1.618	2.035
Sesamum	0.128	0.613	6.838	1.315	1.142	2.359
Rape and mustard	0.128	0.800	7.676	1.314	1.490	2.648
Groundnut	0.058	0.776	6.668	0.592	1.446	2.300
Sugarcane	0.015	2.499	0.394	0.152	4.657	0.136
Tea	1.432	5.589	17.833	14.683	10.417	6.151
Tabacco	0.340	2.658	9.562	3.487	4.954	3.298
Cotton (lint)	0.386	0.050	17.370	3.960	0.093	5.992
Jute	0.152	0.710	3.146	1.561	1.323	1.085

Sources: Figures for 1938/39 are estimated from Sivasubramonian (1960) and are similar to those used by Sivasubramonian (2000). Other figures for India, Pakistan, Bangladesh 1959/60 are estimated indirectly from official statistics of the national income statistics of India and Pakistan (India B, various issues; Pakistan B, various issues). For Bangladesh 1980/81, producers' prices reported in Bangladesh (1993) are used (for rice, "aman traditional varieity").

Table 15. Total Agricultural Output, Land, and Labor Force for Areas Currently in India, 1901/02 to 2001/02

	Total output value, major crops (million Rs.)			Intermed. parameters		Value added from agriculture (million Rs.)			Total area (1000ha)		Population (million)	
	Q at P(1938/39)	Q at P(1960/61)	Q at P(1980/81)	S1 (crop coverage rate)	S2 (value-added rate)	Y at P(1938/39)	Y at P(1960/61)	Y at P(1980/81)	Total area cultivated (A)	Sum of areas, major crops (A')	Agric. labor force (L)	Total population (L')
1901/02	4450	24105	95686	0.6415	0.9473	6571	35597	141306	140970	70994	81.12	234.23
1902/03	5138	28151	111682	0.6681	0.9571	7361	40330	160000	140723	73729	81.71	235.76
1903/04	5038	27445	109734	0.6579	0.9536	7303	39779	159050	140228	75194	82.31	237.30
1904/05	4677	25366	100433	0.6524	0.9500	6810	36936	146247	139437	76136	82.92	238.85
1905/06	4435	24245	96311	0.6387	0.9491	6591	36025	143105	142077	73217	83.53	240.41
1906/07	4996	27370	110040	0.6456	0.9501	7354	40283	161955	142917	78653	84.14	241.98
1907/08	4075	22052	84939	0.6122	0.9415	6268	33917	130637	148346	75521	84.76	243.56
1908/09	4441	24195	97055	0.6157	0.9417	6792	37004	148434	148338	79763	85.38	245.16
1909/10	5723	31444	125103	0.6677	0.9575	8207	45095	179417	149844	82449	86.00	246.76
1910/11	5708	31205	124120	0.6726	0.9545	8100	44284	176146	148668	83533	86.63	248.37
1911/12	5547	29995	121282	0.6750	0.9499	7805	42207	170664	149207	80725	86.63	248.59
1912/13	5472	29783	120123	0.6578	0.9484	7890	42943	173202	148181	83050	86.63	248.81
1913/14	4722	25952	101975	0.6464	0.9442	6896	37905	148944	150088	79611	86.63	249.03
1914/15	5479	29978	122319	0.6500	0.9453	7969	43599	177899	148330	84800	86.63	249.25
1915/16	5724	30939	123704	0.6613	0.9500	8223	44448	177717	150279	82581	86.63	249.47
1916/17	6133	33405	134528	0.6670	0.9520	8753	47677	192002	148833	86416	86.62	249.69
1917/18	5979	32073	129887	0.6670	0.9490	8507	45636	184812	147180	87039	86.62	249.92
1918/19	4191	22525	88961	0.6307	0.9351	6214	33397	131900	145105	72468	86.61	250.14
1919/20	6014	32643	131185	0.6732	0.9531	8515	46214	185721	144759	84317	86.61	250.36
1920/21	4636	25228	99755	0.6421	0.9358	6757	36765	145373	146881	77884	86.60	250.58
1921/22	5602	30767	124064	0.6621	0.9450	7995	43911	177069	148799	84064	86.64	253.13
1922/23	5887	32087	132101	0.6675	0.9459	8343	45472	187206	148817	86145	86.67	255.70
1923/24	5440	29333	120715	0.6572	0.9407	7787	41985	172784	151906	85294	86.69	258.29
1924/25	5530	30415	124193	0.6576	0.9424	7925	43585	177971	152258	87376	86.71	260.92
1925/26	5456	30114	122407	0.6575	0.9421	7817	43150	175395	152410	85518	86.72	263.57
1926/27	5462	29717	120934	0.6566	0.9405	7825	42568	173232	151220	84914	86.72	266.24
1927/28	5476	30429	123629	0.6581	0.9396	7819	43447	176522	152143	86171	86.71	268.95
1928/29	5463	30673	123265	0.6657	0.9418	7729	43398	174401	151842	88334	86.70	271.68
1929/30	5551	30747	123729	0.6595	0.9446	7951	44038	177213	153101	85440	86.68	274.44
1930/31	5667	31380	127172	0.6581	0.9441	8130	45020	182452	154130	88656	86.66	277.22
1931/32	5729	31048	126168	0.6565	0.9406	8208	44479	180750	155272	89575	87.00	281.13
1932/33	5795	31409	128823	0.6590	0.9417	8281	44883	184086	156260	88008	87.34	285.09
1933/34	5726	31087	128590	0.6567	0.9381	8180	44407	183690	154222	90087	87.67	289.11
1934/35	5632	29859	121800	0.6514	0.9386	8115	43022	175497	153918	86561	88.00	293.18
1935/36	5742	30397	127632	0.6500	0.9386	8291	43890	184287	152066	87563	88.33	297.31
1936/37	6217	33058	137823	0.6740	0.9454	8720	46369	193318	153197	90907	88.65	301.50
1937/38	6082	32976	136534	0.6758	0.9432	8489	46022	190551	154076	91001	88.96	305.75
1938/39	5338	29437	119792	0.6499	0.9357	7686	42381	172470	153083	89012	89.28	310.06
1939/40	5779	31405	128908	0.6613	0.9425	8236	44755	183705	154096	88309	89.58	314.43
1940/41	5985	32346	134860	0.6537	0.9443	8646	46724	194805	153648	90333	89.88	318.86
1941/42	5547	30073	123004	0.6558	0.9414	7962	43170	176573	155205	88520	91.28	322.85
1942/43	5939	31517	129783	0.6587	0.9418	8490	45061	185552	154092	90628	92.69	326.89
1943/44	6200	33061	135323	0.6712	0.9462	8740	46608	190771	157071	92625	94.12	330.98
1944/45	5973	31744	130783	0.6556	0.9390	8555	45466	187316	159356	94715	95.58	335.13
1945/46	5527	29224	120182	0.6435	0.9352	8032	42469	174653	161978	92280	97.06	339.32
1946/47	5595	29451	120667	0.6442	0.9357	8127	42778	175269	159468	91320	98.56	343.57
1947/48	5708	29308	121210	0.6546	0.9396	8192	42064	173966	156889	84405	100.08	347.86
1948/49	5682	29469	120106	0.6546	0.9396	8154	42295	172382	156841	94413	101.62	352.22
1949/50	5971	31483	126595	0.6546	0.9396	8569	45185	181694	156788	99086	103.19	356.63
1950/51	5752	29926	122140	0.6281	0.9355	8566	44570	181907	157037	100289	104.78	361.09
1951/52	5944	30705	124556	0.6364	0.9360	8742	45156	183178	156698	101338	105.83	368.23
1952/53	6379	33316	133691	0.6559	0.9391	9133	47699	191407	156629	104883	106.88	375.52
1953/54	7096	38085	151859	0.6826	0.9439	9811	52661	209978	157864	109932	107.94	382.95
1954/55	7276	38438	158395	0.6701	0.9434	10244	54116	222999	159474	112129	109.00	390.52
1955/56	7272	38445	155431	0.6794	0.9406	10068	53222	215177	159628	114994	110.07	398.25
1956/57	7835	41256	168763	0.6869	0.9419	10744	56573	231417	160412	116410	111.14	406.13
1957/58	7361	38642	158254	0.6869	0.9367	10038	52695	215806	159959	115253	112.21	414.16
1958/59	8506	45000	184495	0.7131	0.9419	11235	59439	243695	161008	119742	113.29	422.36
1959/60	8384	43799	176882	0.7057	0.9347	11104	58008	234265	159479	120887	114.37	430.71
1960/61	9467	48756	200717	0.7299	0.9405	12199	62825	258633	158915	121417	115.46	439.24
1961/62	9588	49775	200802	0.7430	0.9377	12101	62819	253426	159486	124615	117.78	449.07
1962/63	9168	48062	194517	0.7296	0.9325	11718	61432	248627	157568	124939	120.14	459.13

	Total output value, major crops (million Rs.)			Intermed. parameters		Value added from agriculture (million Rs.)			Total area (1000ha)		Population (million)	
	Q at P(1938/39)	Q at P(1960/61)	Q at P(1980/81)	S1 (crop coverage rate)	S2 (value-added rate)	Y at P(1938/39)	Y at P(1960/61)	Y at P(1980/81)	Total area cultivated (A)	Sum of areas, major crops (A')	Agric. labor force (L)	Total population (L')
1963/64	9499	49746	198469	0.7442	0.9320	11895	62295	248538	157732	124946	122.56	469.42
1964/65	10547	54819	222566	0.7400	0.9355	13335	69307	281390	158216	126137	125.01	479.93
1965/66	8938	44970	183813	0.7039	0.9194	11674	58736	240082	158594	122689	127.52	490.68
1966/67	8760	45373	181127	0.7192	0.9126	11116	57577	229843	159642	123347	130.08	501.68
1967/68	10575	55689	223410	0.7399	0.9214	13169	69348	278205	160581	129544	132.68	512.91
1968/69	10802	55285	220956	0.7370	0.9128	13378	68468	273643	160689	127459	135.34	524.40
1969/70	11524	59115	237627	0.7369	0.9219	14417	73954	297276	160601	131466	138.05	536.15
1970/71	12163	63196	251207	0.7384	0.9214	15178	78859	313466	160141	132053	140.81	548.16
1971/72	11928	62745	248033	0.7457	0.9096	14551	76538	302560	160981	131331	142.89	560.38
1972/73	11313	57783	229161	0.7325	0.8976	13863	70809	280823	162123	127462	144.99	572.86
1973/74	12386	64009	252822	0.7464	0.9022	14971	77368	305590	163143	133677	147.11	585.63
1974/75	12003	61093	245979	0.7286	0.8884	14636	74497	299947	163847	129012	149.25	598.68
1975/76	13602	70575	280840	0.7465	0.8940	16291	84527	336360	164209	134155	151.42	612.02
1976/77	12954	65686	262210	0.7410	0.8826	15429	78233	312294	164212	130828	153.60	625.66
1977/78	14896	75965	301548	0.7689	0.8828	17104	87226	346250	164595	135666	155.81	639.61
1978/79	15079	78175	307315	0.7715	0.8774	17149	88905	349494	164845	137567	158.03	653.86
1979/80	12774	66095	258422	0.7480	0.8506	14528	75166	293891	164742	133511	160.28	668.43
1980/81	14889	76576	297972	0.7257	0.8782	18018	92669	360595	164897	134711	162.54	683.33
1981/82	15828	81331	322391	0.7415	0.8745	18667	95920	380220	165052	139062	164.88	698.11
1982/83	15340	77527	308895	0.7133	0.8708	18726	94644	377093	164968	134198	167.24	713.22
1983/84	17003	88104	343064	0.7421	0.8752	20054	103911	404616	165622	139200	169.63	728.65
1984/85	16797	86701	339166	0.7285	0.8680	20014	103308	404134	165630	134828	172.05	744.41
1985/86	17291	89178	345015	0.7562	0.8615	19700	101603	393089	165798	135916	174.50	760.52
1986/87	16794	85585	332743	0.7354	0.8554	19534	99549	387032	165988	134207	176.97	776.97
1987/88	16642	83996	330290	0.7450	0.8542	19081	96310	378711	165782	127752	179.47	793.78
1988/89	19778	102980	404174	0.7681	0.8572	22072	114921	451041	166016	138230	182.00	810.95
1989/90	20270	104853	411009	0.7841	0.8513	22008	113844	446254	165585	137432	184.55	828.50
1990/91	21057	107906	425123	0.7767	0.8501	23048	118108	465317	165631	139197	187.14	846.42
1991/92	20871	106430	418039	0.7907	0.8403	22182	113113	444286	166240	135271	189.26	863.09
1992/93	21163	109648	429999	0.7686	0.8474	23333	120886	474070	166550	135787	191.40	880.10
1993/94	21760	112358	439081	0.7675	0.8488	24066	124267	485617	166548	135463	193.55	897.43
1994/95	23253	119021	470283	0.7781	0.8466	25301	129504	511704	166179	137137	195.72	915.11
1995/96	22524	114658	454662	0.7618	0.8380	24780	126140	500190	166044	136160	197.91	933.14
1996/97	24169	124484	491797	0.7506	0.8511	27405	141151	557641	166031	138930	200.12	951.52
1997/98	23388	119016	465441	0.7408	0.8430	26616	135441	529673	166096	138731	202.35	970.26
1998/99	24874	126914	500520	0.7319	0.8438	28675	146308	577005	166099	140625	204.59	989.37
1999/2000	25151	127144	493869	0.7179	0.8438	29561	149438	580465	166176	136794	206.85	1008.86
2000/01	23740	119485	461825	0.7302	0.8435	27424	138027	533494	166091	132349	209.12	1028.74
2001/02	25373	129158	499775	0.7267	0.8437	29459	149956	580252	166363	135207	213.24	1049.00

Table 16. Total Agricultural Output, Land, and Labor Force for Areas Currently in Pakistan, 1901/02 to 2001/02

	Total output value, major crops (million Rs.)			Intermed. parameters		Value added from agriculture (million Rs.)			Total area (1000ha)		Population (million)	
	Q at P(1938/39)	Q at P(1959/60)	Q at P(1980/81)	S1 (crop coverage rate)	S2 (value-added rate)	Y at P(1938/39)	Y at P(1959/60)	Y at P(1980/81)	Total area cultivated (A)	Sum of areas, major crops (A')	Agric. labor force (L)	Total population (L')
1901/02	289	1516	6564	0.7732	0.8980	336	1761	7624	9218	5605	5.70	16.84
1902/03	364	1917	8343	0.8053	0.9074	410	2160	9401	9876	6376	5.79	17.10
1903/04	457	2410	10414	0.7931	0.9041	520	2747	11872	11190	7222	5.87	17.37
1904/05	391	2078	8639	0.7863	0.9006	447	2380	9894	10571	6258	5.96	17.65
1905/06	501	2653	10891	0.7699	0.8997	585	3100	12727	11165	6982	6.04	17.92
1906/07	459	2421	10761	0.7781	0.9007	531	2803	12456	11555	8265	6.13	18.21
1907/08	350	1855	7843	0.7379	0.8926	424	2243	9487	12321	6819	6.22	18.49
1908/09	498	2606	11972	0.7422	0.8927	599	3135	14400	11947	8208	6.31	18.79
1909/10	514	2700	12234	0.8048	0.9078	580	3045	13799	12180	7892	6.40	19.08
1910/11	488	2576	11478	0.8107	0.9049	544	2875	12811	11420	7762	6.50	19.38
1911/12	424	2263	9629	0.8136	0.9005	469	2504	10657	11228	7012	6.53	19.55
1912/13	417	2221	9748	0.7928	0.8991	473	2519	11055	11576	7458	6.57	19.72
1913/14	484	2573	11383	0.7792	0.8951	556	2956	13076	12571	8216	6.61	19.88
1914/15	522	2774	12091	0.7835	0.8962	598	3173	13831	12285	9011	6.65	20.06
1915/16	387	2045	8866	0.7971	0.9006	438	2311	10018	12388	7080	6.68	20.23
1916/17	484	2549	11360	0.8040	0.9025	544	2861	12752	12167	8756	6.72	20.40
1917/18	523	2731	12445	0.8040	0.8997	585	3056	13926	12385	9033	6.76	20.58
1918/19	395	2123	9179	0.7602	0.8865	460	2476	10703	12124	6533	6.80	20.75
1919/20	533	2837	12642	0.8115	0.9035	593	3158	14076	11836	8345	6.83	20.93
1920/21	358	1924	8527	0.7740	0.8871	410	2205	9773	12330	6952	6.87	21.11
1921/22	554	2903	13204	0.7981	0.8959	622	3259	14822	12527	8549	6.87	21.34
1922/23	542	2835	13010	0.8045	0.8967	604	3160	14501	12598	8574	6.86	21.57
1923/24	523	2788	12586	0.7922	0.8918	589	3138	14169	12798	8421	6.86	21.81
1924/25	498	2692	12569	0.7927	0.8934	561	3034	14166	12888	8728	6.85	22.05
1925/26	477	2570	11600	0.7925	0.8931	538	2897	13073	12992	8608	6.84	22.29
1926/27	469	2469	11323	0.7914	0.8916	528	2781	12756	12672	8539	6.84	22.54
1927/28	402	2129	9971	0.7932	0.8908	451	2391	11197	12734	8143	6.83	22.78
1928/29	499	2647	11914	0.8024	0.8929	556	2946	13258	13242	8831	6.82	23.03
1929/30	566	3022	13563	0.7950	0.8955	637	3404	15278	13442	9635	6.81	23.29
1930/31	515	2748	12585	0.7932	0.8950	581	3100	14201	13350	8551	6.80	23.54
1931/32	496	2609	12206	0.7914	0.8917	558	2940	13753	12846	8570	6.84	23.98
1932/33	490	2594	11845	0.7944	0.8928	550	2915	13313	13355	8658	6.88	24.42
1933/34	546	2947	13646	0.7916	0.8894	613	3311	15331	13433	9517	6.93	24.87
1934/35	545	2993	13593	0.7852	0.8898	618	3392	15404	13644	8747	6.97	25.33
1935/36	560	3071	13856	0.7835	0.8898	636	3487	15735	13393	9063	7.01	25.80
1936/37	638	3523	15844	0.8125	0.8963	704	3886	17479	13535	9402	7.05	26.28
1937/38	582	3235	14023	0.8146	0.8942	638	3550	15392	13544	9257	7.10	26.77
1938/39	567	3161	13538	0.7834	0.8871	642	3580	15330	13470	9048	7.14	27.26
1939/40	597	3266	13936	0.7972	0.8935	669	3660	15620	13893	9135	7.18	27.77
1940/41	616	3368	14870	0.7880	0.8952	700	3827	16893	14331	9830	7.22	28.28
1941/42	682	3731	16427	0.7905	0.8925	770	4212	18546	15000	9926	7.30	28.99
1942/43	752	4062	18226	0.7940	0.8929	845	4568	20494	14948	10427	7.39	29.71
1943/44	698	3764	17089	0.8091	0.8970	774	4174	18948	15283	10159	7.47	30.45
1944/45	741	3961	17966	0.7902	0.8902	835	4462	20238	15391	10683	7.56	31.20
1945/46	717	3816	17457	0.7757	0.8865	819	4361	19952	15778	10349	7.64	31.98
1946/47	690	3676	16772	0.7765	0.8870	788	4200	19160	15484	9908	7.73	32.78
1947/48	612	3202	14223	0.7891	0.8907	690	3614	16055	14690	9285	7.82	33.59
1948/49	719	3698	16869	0.7891	0.8907	811	4174	19041	15160	10025	7.90	34.43
1949/50	735	3809	17075	0.8066	0.8999	820	4250	19049	14980	9932	7.99	35.28
1950/51	742	3920	17917	0.8068	0.8989	827	4368	19963	15150	10399	8.07	36.16
1951/52	613	3260	14543	0.7828	0.8878	695	3697	16493	15110	9813	8.15	37.06
1952/53	608	3226	14547	0.7684	0.8701	689	3653	16472	15280	9670	8.23	37.97
1953/54	762	3946	17814	0.7809	0.8969	875	4532	20460	15540	10505	8.31	38.91
1954/55	741	3878	17748	0.8012	0.8925	826	4320	19771	15320	10563	8.39	39.88
1955/56	757	3964	18337	0.7998	0.8890	841	4406	20381	15660	11169	8.47	40.86
1956/57	792	4132	18959	0.8108	0.8834	863	4502	20657	16010	11393	8.55	41.87
1957/58	823	4245	19402	0.8069	0.8703	888	4578	20926	16550	11114	8.63	42.91
1958/59	865	4424	19814	0.8152	0.8885	942	4822	21595	16200	11472	8.71	43.97
1959/60	845	4378	19666	0.8130	0.8867	921	4775	21450	16510	11555	8.78	45.06
1960/61	849	4379	19737	0.8155	0.8769	913	4709	21225	18120	11066	8.86	46.17
1961/62	937	4792	21597	0.8209	0.8783	1003	5127	23107	17900	11717	8.97	47.52
1962/63	1037	5221	23722	0.8376	0.8801	1090	5486	24926	18030	11894	9.09	48.90

Table 16. Total Agricultural Output, Land, and Labor Force for Areas Currently in Pakistan, 1901/02 to 2001/02

	Total output value, major crops (million Rs.)			Intermed. parameters		Value added from agriculture (million Rs.)			Total area (1000ha)		Population (million)	
	Q at P(1938/39)	Q at P(1959/60)	Q at P(1980/81)	S1 (crop coverage rate)	S2 (value-added rate)	Y at P(1938/39)	Y at P(1959/60)	Y at P(1980/81)	Total area cultivated (A)	Sum of areas, major crops (A')	Agric. labor force (L)	Total population (L')
1963/64	1018	5236	23580	0.7998	0.8611	1096	5638	25389	18330	11797	9.20	50.32
1964/65	1107	5610	25228	0.8122	0.8712	1187	6018	27061	18720	12593	9.31	51.78
1965/66	1106	5554	24992	0.8044	0.8680	1194	5993	26967	19240	12434	9.43	53.29
1966/67	1181	6007	27033	0.8000	0.8551	1262	6421	28895	19260	12941	9.54	54.83
1967/68	1336	6975	29871	0.8121	0.8714	1434	7484	32050	19430	13736	9.65	56.43
1968/69	1430	7396	31796	0.8087	0.8664	1532	7924	34066	19290	13476	9.77	58.07
1969/70	1586	8109	34659	0.8471	0.8849	1657	8470	36203	19230	13645	9.88	59.75
1970/71	1469	7573	32658	0.8324	0.8838	1560	8040	34672	19210	13455	9.99	61.49
1971/72	1519	8012	34592	0.8296	0.8699	1593	8401	36272	19090	13437	10.22	63.46
1972/73	1553	8180	35162	0.8349	0.8679	1615	8503	36552	19120	13540	10.46	65.49
1973/74	1643	8513	36765	0.8319	0.8753	1729	8958	38684	19380	13999	10.71	67.58
1974/75	1561	8155	34826	0.8162	0.8684	1660	8677	37056	19550	13443	10.95	69.75
1975/76	1686	8621	36562	0.8099	0.8632	1797	9188	38968	19820	13890	11.21	71.98
1976/77	1775	8940	37805	0.8054	0.8442	1861	9371	39629	19760	14377	11.47	74.28
1977/78	1795	9121	39090	0.8053	0.8897	1983	10077	43187	20100	14506	11.73	76.66
1978/79	1850	9447	39365	0.8043	0.8801	2024	10338	43075	19980	15064	12.00	79.11
1979/80	2004	10450	42958	0.8136	0.8713	2146	11191	46005	20230	15236	12.28	81.64
1980/81	2111	10863	44597	0.8315	0.8782	2230	11473	47102	20300	15027	12.56	84.25
1981/82	2245	11485	47156	0.8248	0.8697	2367	12110	49723	20420	15651	12.80	86.52
1982/83	2263	11747	48545	0.8182	0.8722	2412	12522	51747	20310	15765	13.05	88.85
1983/84	2049	10342	42897	0.7763	0.8458	2232	11268	46737	20330	15702	13.31	91.24
1984/85	2283	11971	50183	0.8078	0.8546	2415	12664	53091	20610	15848	13.56	93.70
1985/86	2429	12990	53812	0.8131	0.8488	2535	13560	56173	20670	15803	13.82	96.22
1986/87	2474	13235	55609	0.8093	0.8347	2551	13651	57358	20920	16404	14.08	98.81
1987/88	2507	13425	56132	0.8230	0.8531	2598	13916	58185	20660	15451	14.35	101.47
1988/89	2705	14345	59592	0.8198	0.8598	2838	15045	62503	21020	16615	14.62	104.21
1989/90	2695	14339	59922	0.8087	0.8543	2847	15147	63301	20940	16795	14.89	107.01
1990/91	2794	14971	62698	0.8132	0.8629	2965	15886	66530	20960	16971	15.16	109.89
1991/92	3131	17034	71754	0.8385	0.8707	3251	17688	74509	21060	16805	15.36	112.85
1992/93	2886	15382	63094	0.7938	0.8358	3038	16194	66428	21400	17344	15.55	115.89
1993/94	2927	15319	63427	0.8078	0.8417	3050	15962	66091	21510	17129	15.75	119.01
1994/95	3120	16308	67509	0.8119	0.8596	3303	17266	71476	21550	17450	15.95	122.21
1995/96	3280	17415	73083	0.8144	0.8413	3388	17991	75503	21680	18008	16.15	125.50
1996/97	3161	16769	69840	0.8011	0.8423	3323	17630	73426	21980	17828	16.34	128.88
1997/98	3496	18211	75825	0.8015	0.8399	3664	19085	79465	21960	18225	16.54	132.35
1998/99	3473	18005	75128	0.7910	0.8476	3721	19292	80499	21930	18208	16.74	135.92
1999/2000	3775	20161	82866	0.8083	0.8603	4018	21458	88200	21960	18154	16.93	139.57
2000/01	3485	18628	76632	0.7843	0.8347	3709	19825	81554	22160	17570	17.13	143.33
2001/02	3397	18013	74285	0.7843	0.8453	3662	19415	80065	22270	17507	17.59	147.19

Table 17. Total Agricultural Output, Land, and Labor Force for Areas Currently in Bangladesh, 1901/02 to 2001/02

	Total output value, major crops (million Rs. or Taka)			Intermed. parameters		Value added from agriculture (million Rs. or Taka)			Total area (1000ha)		Population (million)	
	Q at P(1938/39)	Q at P(1959/60)	Q at P(1980/81)	S1 (crop coverage rate)	S2 (value-added rate)	Y at P(1938/39)	Y at P(1959/60)	Y at P(1980/81)	Total area cultivated (A)	Sum of areas, major crops (A')	Agric. labor force (L)	Total population (L')
1901/02	1069	6408	30834	0.7778	0.9528	1309	7850	37773	8902	9283	9.72	28.13
1902/03	1306	7721	38053	0.8101	0.9627	1552	9175	45222	8903	9514	9.83	28.45
1903/04	1218	7218	35348	0.7978	0.9592	1465	8679	42500	8614	9286	9.94	28.76
1904/05	1378	8095	40012	0.7910	0.9555	1665	9777	48331	8947	10291	10.06	29.08
1905/06	1209	7006	34725	0.7745	0.9546	1490	8635	42800	9013	9830	10.18	29.40
1906/07	1148	6645	32777	0.7827	0.9556	1401	8112	40016	8811	10072	10.30	29.73
1907/08	1059	6237	29823	0.7423	0.9470	1351	7958	38049	8846	10282	10.42	30.05
1908/09	923	5382	26422	0.7466	0.9471	1171	6828	33520	8363	9481	10.54	30.39
1909/10	1466	8422	42772	0.8096	0.9631	1744	10019	50884	8758	10565	10.66	30.72
1910/11	1481	8560	43104	0.8155	0.9601	1744	10076	50743	8717	10548	10.78	31.06
1911/12	1426	8264	41348	0.8185	0.9554	1664	9646	48264	8460	10476	10.87	31.34
1912/13	1178	6863	33639	0.7976	0.9539	1409	8209	40234	8844	10201	10.95	31.63
1913/14	1210	7021	34832	0.7838	0.9497	1466	8507	42202	8717	9974	11.04	31.91
1914/15	1043	6045	29351	0.7881	0.9508	1258	7293	35410	8849	10175	11.13	32.20
1915/16	1271	7389	36773	0.8018	0.9556	1515	8806	43823	9212	10044	11.22	32.49
1916/17	1311	7574	37880	0.8088	0.9575	1552	8967	44847	8974	10234	11.30	32.79
1917/18	1357	7862	39103	0.8087	0.9546	1601	9280	46153	8970	10052	11.39	33.08
1918/19	950	5642	27097	0.7647	0.9405	1169	6940	33327	8902	9829	11.48	33.38
1919/20	1224	7204	35092	0.8163	0.9586	1437	8460	41211	9004	10037	11.57	33.68
1920/21	1017	6085	29488	0.7786	0.9412	1230	7356	35647	8902	9814	11.66	33.99
1921/22	1132	6782	33445	0.8028	0.9505	1341	8030	39596	8889	9821	11.66	34.32
1922/23	1212	7114	35427	0.8093	0.9514	1425	8363	41647	8681	9919	11.66	34.65
1923/24	1037	6107	29481	0.7969	0.9462	1232	7251	35004	8723	9546	11.65	34.98
1924/25	1115	6471	31914	0.7974	0.9478	1325	7692	37936	8770	9828	11.64	35.32
1925/26	1088	6390	30841	0.7972	0.9476	1293	7595	36657	8867	9936	11.64	35.66
1926/27	1095	6322	30456	0.7961	0.9460	1302	7512	36190	8579	9755	11.63	36.00
1927/28	990	5826	27642	0.7979	0.9451	1173	6900	32740	8544	9254	11.62	36.35
1928/29	1249	7227	35492	0.8072	0.9473	1466	8482	41655	8516	10006	11.61	36.70
1929/30	1195	6916	33733	0.7997	0.9501	1420	8217	40078	8793	9735	11.60	37.05
1930/31	1243	7199	35053	0.7979	0.9496	1480	8567	41717	8760	9839	11.58	37.41
1931/32	1149	6820	33368	0.7961	0.9460	1366	8104	39654	8708	9805	11.58	37.84
1932/33	1094	6677	31349	0.7991	0.9472	1297	7914	37160	8699	9602	11.58	38.28
1933/34	1073	6872	30614	0.7963	0.9436	1272	8144	36276	8651	9749	11.57	38.72
1934/35	1081	7006	30767	0.7899	0.9441	1292	8373	36773	8600	9667	11.57	39.17
1935/36	892	6035	25283	0.7882	0.9440	1068	7228	30282	8406	9410	11.56	39.62
1936/37	1176	7556	33384	0.8173	0.9509	1368	8792	38844	8263	9491	11.56	40.08
1937/38	1091	6845	30939	0.8195	0.9487	1263	7924	35819	8299	9418	11.55	40.54
1938/39	932	5957	26522	0.7881	0.9412	1114	7114	31675	8420	9496	11.54	41.01
1939/40	1055	6702	29509	0.8019	0.9479	1248	7923	34884	8756	9792	11.53	41.49
1940/41	948	6044	25508	0.7926	0.9498	1136	7242	30564	8745	10262	11.52	41.97
1941/42	1015	6448	29272	0.7952	0.9469	1209	7678	34856	8799	9462	11.53	42.02
1942/43	915	5706	25269	0.7987	0.9473	1085	6767	29968	8756	9897	11.55	42.07
1943/44	1239	7744	35337	0.8139	0.9517	1449	9056	41324	9047	10569	11.56	42.12
1944/45	1045	6543	29805	0.7949	0.9444	1241	7773	35412	9185	10524	11.58	42.17
1945/46	1041	6571	29162	0.7802	0.9406	1255	7921	35155	9234	10077	11.59	42.22
1946/47	985	6239	27919	0.7811	0.9411	1187	7517	33639	9155	9661	11.60	42.28
1947/48	905	5616	25449	0.7938	0.9450	1077	6686	30299	8915	9130	11.62	42.33
1948/49	963	5994	27465	0.7938	0.9450	1146	7137	32699	9041	9242	11.63	42.38
1949/50	877	5491	25422	0.7816	0.9523	1069	6691	30976	9036	9170	11.65	42.43
1950/51	947	5874	26856	0.8014	0.9447	1117	6924	31659	8998	9425	11.66	42.48
1951/52	935	5814	26376	0.7879	0.9383	1113	6923	31410	9003	9580	11.80	43.56
1952/53	983	6126	27657	0.7888	0.9352	1166	7263	32790	9028	9840	11.94	44.65
1953/54	985	6278	28486	0.8092	0.9547	1162	7407	33608	9038	9965	12.08	45.78
1954/55	953	6014	27312	0.7952	0.9398	1126	7108	32280	8953	9822	12.22	46.94
1955/56	879	5628	24637	0.8001	0.9087	998	6392	27984	8763	9214	12.36	48.12
1956/57	1026	6443	29138	0.8244	0.9395	1169	7342	33208	8758	9243	12.50	49.34
1957/58	974	6111	27405	0.8151	0.9312	1113	6982	31310	8762	9367	12.65	50.58
1958/59	919	5833	25967	0.8318	0.9194	1016	6447	28702	8763	9210	12.79	51.86
1959/60	1052	6501	29874	0.8523	0.9488	1171	7238	33256	8765	9798	12.93	53.17
1960/61	1149	7132	32977	0.8548	0.9285	1248	7748	35820	8770	10143	13.08	54.51
1961/62	1194	7449	33834	0.8585	0.9366	1303	8126	36909	8880	10013	13.25	55.99
1962/63	1100	7034	31283	0.8358	0.9165	1206	7713	34302	8877	10096	13.42	57.51

	Total output value, major crops (million Rs. or Taka)			Intermed. parameters		Value added from agriculture (million Rs. or Taka)			Total area (1000ha)		Population (million)	
	Q at P(1938/39)	Q at P(1959/60)	Q at P(1980/81)	S1 (crop coverage rate)	S2 (value-added rate)	Y at P(1938/39)	Y at P(1959/60)	Y at P(1980/81)	Total area cultivated (A)	Sum of areas, major crops (A')	Agric. labor force (L)	Total population (L')
1963/64	1257	8045	35900	0.8616	0.9211	1344	8601	38379	8879	10350	13.59	59.07
1964/65	1235	8143	35329	0.8667	0.9212	1313	8655	37550	8920	10535	13.76	60.68
1965/66	1275	8648	36226	0.8648	0.9016	1329	9017	37769	9037	10911	13.93	62.33
1966/67	1187	8312	33794	0.8446	0.8796	1237	8656	35196	9077	10654	14.10	64.02
1967/68	1360	9140	38916	0.8549	0.8984	1429	9606	40899	9093	11626	14.28	65.76
1968/69	1351	9055	39073	0.8453	0.9047	1446	9692	41818	9071	11448	14.45	67.55
1969/70	1454	9617	41771	0.8514	0.9034	1543	10204	44319	9103	12113	14.63	69.39
1970/71	1369	9191	39248	0.8561	0.9026	1443	9690	41380	9097	11633	14.80	71.28
1971/72	1142	7579	33556	0.8609	0.9045	1200	7962	35254	9094	10700	14.93	72.95
1972/73	1233	7909	35239	0.8545	0.9011	1300	8340	37159	9113	11254	15.05	74.66
1973/74	1402	9090	40255	0.8499	0.8968	1479	9593	42479	9116	11643	15.18	76.42
1974/75	1282	8551	37287	0.8449	0.8915	1353	9024	39346	9133	11104	15.30	78.22
1975/76	1441	9243	42014	0.8388	0.8960	1539	9874	44882	9129	11592	15.42	80.05
1976/77	1383	9033	39976	0.8331	0.8970	1489	9727	43044	9124	11309	15.54	81.93
1977/78	1526	9852	44156	0.8325	0.8976	1645	10621	47606	9118	11583	15.66	83.86
1978/79	1555	10016	44813	0.8370	0.9007	1673	10778	48224	9130	11839	15.77	85.83
1979/80	1550	9880	44939	0.8410	0.9060	1670	10643	48410	9137	11948	15.88	87.85
1980/81	1681	10684	49207	0.8437	0.9024	1798	11427	52630	9130	12159	15.99	89.91
1981/82	1642	10603	48061	0.8379	0.8953	1754	11329	51352	9130	12194	16.30	91.86
1982/83	1709	10989	50036	0.8367	0.8918	1821	11713	53332	9092	12313	16.63	93.86
1983/84	1767	11231	52010	0.8329	0.8858	1879	11944	55309	9111	12477	16.96	95.90
1984/85	1797	11396	53234	0.8297	0.8785	1903	12066	56366	9135	12273	17.29	97.98
1985/86	1910	11862	55260	0.8307	0.8746	2011	12489	58180	9169	12698	17.63	100.11
1986/87	1882	11846	54989	0.8397	0.8775	1967	12380	57466	9247	12624	17.98	102.28
1987/88	1837	11705	54391	0.8399	0.8774	1920	12229	56825	8875	12218	18.34	104.50
1988/89	1841	11600	54387	0.8399	0.8804	1930	12159	57008	8725	12131	18.70	106.77
1989/90	2043	12886	60409	0.8459	0.8878	2145	13524	63400	8721	12362	19.07	109.09
1990/91	2089	13164	61561	0.8399	0.8842	2199	13858	64809	8533	12436	19.44	111.46
1991/92	2138	13383	63138	0.8374	0.8805	2248	14070	66383	8335	12220	19.66	113.23
1992/93	2142	13421	63368	0.8381	0.8816	2253	14117	66656	8199	12112	19.88	115.03
1993/94	2109	13151	62419	0.8383	0.8771	2207	13760	65307	8063	11968	20.09	116.86
1994/95	2027	12755	59802	0.8306	0.8712	2126	13379	62727	8084	11927	20.30	118.72
1995/96	2080	13013	61849	0.8322	0.8721	2179	13637	64815	8147	11907	20.52	120.61
1996/97	2233	13914	66162	0.8287	0.8646	2330	14515	69024	8199	12201	20.72	122.53
1997/98	2282	14128	67682	0.8280	0.8561	2359	14607	69978	8324	12449	20.93	124.48
1998/99	2359	14465	70238	0.8218	0.8462	2429	14894	72322	8345	12277	21.14	126.46
1999/2000	2635	16017	78764	0.8183	0.8468	2727	16574	81504	8492	12716	21.34	128.48
2000/01	2845	17107	84558	0.8172	0.8489	2955	17770	87838	8439	12768	21.54	130.52
2001/02	2770	16632	82277	0.8166	0.8481	2877	17273	85447	8439	12585	21.88	132.60