

# **GROWTH RATES IN AGRICULTURE**

**1949-50 to 1964-65**



**सत्यमेव जयते**

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DIRECTORATE OF ECONOMICS AND STATISTICS  
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## PREFACE

This is the second issue of the brochure "Growth Rates in Agriculture". It gives all India and State index numbers of area under crops, agricultural production and productivity and growth rates of area, production and productivity at the all-India level for two periods, viz., 1949-50 to 1964-65 and 1952-53 to 1964-65 and at the State level for 1952-53 to 1964-65. It also provides a comparison of agricultural growth in India with other countries of the World.

Suggestions for further improvement of the brochure would be most welcome.

The work involved in the preparation of this brochure has been done by Shri R. S. Chadha, Assistant Economic and Statistical Adviser.

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## CHAPTER I

### INTRODUCTION

1.1. Agriculture occupies a place of pivotal importance in India's economy, providing livelihood to about 70 per cent. of the country's population and contributing about 50 per cent. of the National Income. From about 136 million hectares of the cultivated area come the bulk of food supplies, raw materials for a number of important industries such as cotton and jute textiles, sugar, etc., and products for exports which account for about 45-50 per cent. of the foreign exchange earnings. Thus, the success of our efforts for economic development of the country will largely depend upon the order of development achieved in agriculture. Hence, in a developing country like ours, the strengthening of the agricultural base is an essential pre-requisite for the establishment of a more balanced and progressive economy. The important role that agriculture plays in the economic development of the country needs no re-emphasis.

1.2. For decades preceding Independence, agriculture remained mostly neglected in traditional moorings and suffered deterioration. It was unaffected by the advances in science and technology in the Western World. The agricultural scene today is one of over abundance of labour supply and comparative scarcity of land and capital. Under the pressure of population, the holdings have shrunk in size and have been broken into millions of uneconomic fragments. The yields are miserably low as compared to the more advanced countries of the world. The result is that even with bulk of population engaged in agriculture, enough quantities of foodgrains and raw materials are not being produced. A rapid expansion of agricultural output is urgently required to feed the large population now growing at the rate of about 2.5 per cent. per annum and to achieve the goal of self-reliance.

1.3. Rightly, our Five Year Plans accorded a pride of place to programmes of agricultural development. Upto the end of 1964-65, the fourth year of the Third Plan, considerable progress has been achieved in increasing the production and laying the foundations of a progressive and forward looking agricultural industry. The Memorandum on the tentative frame-work of the Fourth Plan, October, 1964, visualised a rate of growth of not less than 5 per cent. for agricultural production. Since then there has been some re-thinking and higher targets have been proposed for the Fourth Plan. Thus, the production of foodgrains by 1970-71, originally estimated to reach the level of 120 million tonnes, is expected to reach a level of 125 million tonnes. With this availability, the *per capita* consumption of foodgrains would be raised to 16 ozs. of cereals and 2.5 ozs. of pulses per day in 1971. The target for oilseeds is proposed to be raised from 10 million tonnes to 10.7 million tonnes; that of cotton from 8.5 million to 8.6 million bales, of jute from 8 million to 9 million bales. For sugarcane a target of 13.5 million tonnes (gur) has been set. Thus, the tasks to be achieved during the Fourth Plan are stupendous. The higher targets present a challenge which has, nevertheless, to be faced and there is no other alternative.

1.4. In this context, a study of the rates of growth in agriculture in the past is important and useful in several ways. Such a study would enable an assessment of the progress of agricultural development by crops and regions and would provide a view of the future in the perspective of the past. It would be helpful in locating the weaknesses in the existing policies, in understanding the factors involved and in formulating of policies that will foster more rapid economic growth, which is the central economic problem of our time. Balanced development of different parts of the country is one of the major aims of planned development in India, but it is recognised that vast differences in soils, topography, altitudes, water supply, climatic conditions, etc., from State to State, the attainment of truly balanced development will take time. Knowledge of the relative performance of the different regions in the past should, however, prove useful in deciding priorities for the future. It is to serve these and related objectives that this study of all-India and State growth rates in agriculture, has been undertaken. This study is an extension of the earlier study issued in December, 1964 and covers the period upto 1964-65.

1.5. This brochure contains six chapters including this one, by way of Introduction. Chapter II gives the methodology of computation of growth rates. Due to paucity of detailed data it has been possible for the present to compute only the growth rates of agricultural production and the relative contribution to it of gross area under crops and their yields. With a view to measuring the contribution of such factors as changes in net area sown, cropping intensity, area under crops, cropping pattern, yields and productivity per unit of net area, a new scheme of index numbers has been outlined in this chapter. In Chapter III, all-India growth rates of area under crops, agricultural production and productivity during 1949-50 to 1964-65 are discussed briefly. As index numbers for the States are available on a uniform basis only from 1952-53, all-India growth rates have also been studied for the period 1952-53 to 1964-65 to provide comparison with the performance of different States. These are discussed in Chapter IV. This chapter also provides a comparative picture of the development of agriculture in India and other countries of the world during 1952-53 to 1963-64 (the latest year for which data are available). Chapter V gives the spectrum of the relative performance of different States. It also discusses the factors that have helped in faster growth in some States and retarded the progress in others. In Chapter VI are discussed the standard errors of the growth rates to give an idea of their reliability. All-India index numbers of area under crops, agricultural production and agricultural productivity are given in Appendices 1.1 to 1.3. State-wise index numbers of area under crops, agricultural production and agricultural productivity for all crops, foodgrains and non-foodgrains are given in Appendices 2.1 to 2.9. Detailed State-wise and crop-wise index numbers are given in Appendices 2.10 to 2.54. All-India and State rates of growth, linear and compound, are given in Appendices 3.1 to 5.42. Standard errors of the growth rates are given in Appendices 6.1 to 6.47.

1.6. An abstract statement giving all-India and State linear and compound growth rates of agricultural production, area under crops and agricultural productivity during the periods 1949—65 and 1952—65 is given in the table on next page.

*Growth Rates of Agricultural Production, Area under Crops, and Agricultural Productivity during 1949-50 to 1964-65 and 1952-53 to 1964-65*

	Agricultural Production		Area under Crops		Agricultural Productivity	
	Linear Growth Rate (Per cent)	Compound Growth Rate (Per cent)	Linear Growth Rate (Per cent)	Compound Growth Rate (Per cent)	Linear Growth Rate (Per cent)	Compound Growth Rate (Per cent)
<b>1949-50 to 1964-65</b>						
	(1949-50 to 1951-52 =100)		(1949-50 to 1951-52 =100)		(1949-50 to 1951-52 =100)	
<b>All-India—</b>						
Foodgrains	3.66	2.98	1.48	1.34	1.80	1.61
Non-foodgrains	4.39	3.61	2.90	2.52	1.11	1.06
All-Crops	3.92	3.19	1.72	1.55	1.78	1.60
<b>1952-53 to 1964-65</b>						
	(1952-53 to 1954-55 =100)		(1952-53 to 1954-55 =100)		(1952-53 to 1954-55 =100)	
<b>All-India—</b>						
Foodgrains	2.75	2.50	1.02	0.98	1.60	1.51
Non-foodgrains	4.79	3.99	2.56	2.30	1.79	1.66
All-Crops	3.42	3.01	1.28	1.21	1.91	1.77
<b>Statewise for All-Crops—</b>						
Punjab	5.56	4.56	2.06	1.90	2.86	2.61
Gujarat	5.12	4.55	0.46	0.45	4.52	4.09
Madras	4.91	4.17	1.13	1.10	3.46	3.04
Mysore	4.06	3.54	0.83	0.81	3.03	2.71
Himachal Pradesh	3.93	3.39	0.73	0.71	3.00	2.67
Bihar	3.21	2.97	0.71	0.71	2.39	2.25
Maharashtra	3.19	2.93	0.44	0.44	2.62	2.45
Rajasthan	3.08	2.74	3.23	2.85	(—)0.08	(—)0.11
Andhra Pradesh	3.06	2.71	0.27	0.26	2.72	2.45
Madhya Pradesh	2.79	2.49	1.35	1.28	1.30	1.21
Orissa	2.72	2.48	0.84	0.81	1.78	1.66
Kerala	2.52	2.27	1.38	1.30	1.00	0.96
West Bengal	2.07	1.94	0.60	0.59	1.41	1.34
Uttar Pradesh	1.82	1.66	0.74	0.72	1.01	0.94
Assam	1.25	1.17	1.32	1.25	(—)0.07	(—)0.08

## CHAPTER II

### METHODOLOGY

2.1. For a proper assessment of trends in area under crops, yields and agricultural production, it is necessary to have a continuous series of estimates of area, yield and production of different crops on a comparable basis. The official estimates of area, etc. of different crops published from time to time are not, however, comparable due mainly to improvements effected in their quality and content, in different States and for different crops progressively during the last two decades. These improvements relate mainly to the substitution of the traditional eye estimation method by the objective random sampling crop-cutting method and the gradual expansion of reporting areas. In the process while the quality of the absolute figures has been improving from year to year, their strict comparability over time has been lost. To provide a comparable time series, the Directorate of Economics and Statistics, Ministry of Food and Agriculture have issued all-India index numbers of agricultural production, area under crops and productivity (yield), with 1949-50 as base. To allow for changes in coverage and methods of estimation, these index numbers have been constructed by the chain-base method in which area/production of a crop during a year is expressed as a relative of the corresponding area/production in the preceding year, based on the same coverage and methods of estimation. These relatives for each crop are linked to the base year through the intervening chain relatives to give the area/production index for the crop.

2.2. The application of chain base method involves the following basic assumptions—

- (i) the variation in area/production in the non-reporting areas is the same as that in the reporting areas in the aggregate; and
- (ii) the relative variation in the figures of area/production based on the new method (sample surveys) is the same as that based on the old method (eye appraisal etc.).

The practical implications of (ii) above are that for the transitional year, that is, when the method of estimation undergoes a change, the estimates of area/production should be available on the basis of both the traditional (old) and new method (sample surveys). Formulae used for the construction of various index numbers are as follows:

$$A_j = \text{Index of Area under Crops} = \frac{\sum a_{ij}}{\sum a_{i0}} \times 100 \dots \dots \dots (1)$$

$$O_j = \text{Index of Agricultural Production} = \frac{\sum P_{ij}}{\sum P_{i0}} \times 100 \dots \dots \dots (2)$$

$$P_j = \text{Index of Agricultural Productivity} = \frac{\text{Index of Agricultural Production}}{\text{Index of Area under Crops}} \times 100 (3)$$

where,

$a_{i0}$  = area under the  $i$ th crop during the base period.

$a_{ij}$  = area under the  $i$ th crop during the  $j$ th year.

$P_{i0}$  = production of the  $i$ th crop during the base period.

$P_{ij}$  = production of the  $i$ th crop during the  $j$ th year.

$p_{i0}$  = price per unit of the  $i$ th crop in the base period.

For further details regarding the base period, coverage, concepts, weighting, etc. reference may be made to Chapter II of Growth Rates in Agriculture, December, 1964 issued by the Directorate of Economics and Statistics, Ministry of Food and Agriculture.

2.3. To enable an assessment of agricultural progress in the individual States and to compare their relative performance, similar series were needed at the State level. The State Governments were, therefore, approached by the Directorate for undertaking the compilation of indices of agricultural production, following essentially the same concepts, definitions and methodology as adopted in the all-India series. All States except Jammu and Kashmir are now compiling these indices. In constructing their index numbers, the States have, by and large, followed the same concepts, definitions and methodology as used in the all-India series. There are, however, a few variations in regard to the base period, coverage of crops and method of construction which put some limitations on straight inter-State comparison. For purposes of this study, the Directorate of Economics and Statistics have made such adjustments as are possible in these index numbers and also brought them on to a uniform base, viz. 1956-57, to obtain State-wise series suitable for undertaking trend studies. For a detailed account of the base period, coverage, method of construction, etc. of State index numbers and of the type of adjustments effected in the State series, reference may be made to Chapter II of Growth Rates in Agriculture, December, 1964. The all-India and State index numbers, forming the basis of the study of growth rates in the brochure, are given in the appendices.

2.4. Even when the comparable series of index numbers are available for a period of time, there are several methods of computation of growth rates. The simplest method is to take the absolute or percentage difference in the levels of the first and final years of the period under study and to divide the difference by the number of intervening years. This method is not quite appropriate for measuring the growth rates in agriculture, since agriculture is subject to cyclical fluctuations. In agriculture, especially in the case of a country like India where with irrigation being limited to less than 20 per cent of the cropped area, there is large dependence on weather, a comparison of the levels during two individual years would not normally give a correct picture of the underlying secular trend. Other methods of determining the rate of growth consist of fitting of linear or non-linear (curvilinear) trends. A straight line is often a reasonably good fit, or estimate, of the trend of a series which is not too long. However, for long series and, in many cases even for shorter ones, some type of non-linear equation is more appropriate for a satisfactory description of the trend. It has been observed that linear trends or simpler types of non linear trends, such as the exponential or the second degree polynomial, quite frequently give excellent fits to time series which are not too long and work well for estimation of trend within the limits of the observed series or even for forecasting trend for a few years. Since our aim is to estimate the trend during specified periods of time for purposes of providing a measure of progress during the period under study or of inter-State and inter-crop comparisons, use has been made of the 'linear' and 'exponential' trends for estimation of growth rates.

2.5. The linear trend shows a constant amount of increase/decrease per unit of time. This absolute amount of increase/decrease can be expressed as a percentage of the level during a year or an average of a number of years to give the growth rate during the period under study. The exponential trend, on the other hand, gives directly a constant rate of increase/decrease per unit of time and is, therefore, sometimes called the 'geometric' or 'compound' rate of growth. Another method of arriving at a crude measure of the 'geometric' or 'compound' rate of growth can be to take a simple average of the percentage increase/decrease during each year over the previous year.

2.6. For all-India, the index numbers of agricultural production are available from 1949-50 but the same is not the case with the State series. State indices are available on uniform basis from 1952-53; as such, State growth rates have been computed for the period 1952-53 to 1964-65. In the case of all-India, growth rates have been computed for both the periods—1949-50 to 1964-65 and 1952-53 to 1964-65—the latter to provide a comparison with the State growth rates.

2.7. Agricultural production is greatly affected by uncertain factors like rainfall, floods, sunshine, temperatures, etc. and is, therefore, subject to large variations from year to year. In the study on Growth Rates in Agriculture, December, 1964, growth rates were computed by taking a three-yearly moving average of the index numbers with a view to reducing the impact of cyclical factors and throwing into bold relief the underlying secular trend. The moving average approach has, however, certain limitations especially when mathematical curves are fitted to these averages. For example in a three-yearly moving average, the weight is 1 for the first and the last years of the series, 2 for the second and the last but one figures and 3 for each of the intermediate figures. This uneven weighting affects the growth rate. In the present study, therefore, the moving average approach has been abandoned and instead the various functions have been fitted to annual index numbers. The methodology adopted for computation of growth rates for the different periods is indicated briefly in the succeeding paragraphs.

2.8. *Linear Growth Rates.*—By taking time as the independent variable and the index numbers of area/production/productivity as the dependent variable, a linear equation of the following form was fitted :

$$y = a + bx$$

where,  $y$  = index numbers of area/production/productivity

$x$  = time

The value of  $b$  in the linear equation represents the slope of the line and gives an estimate of the constant amount of increase per annum. This amount is thus expressed as a percentage of the average level obtaining during the triennium ending 1951-52 for the period 1949-50 to 1964-65 and the level during 1952-53 to 1954-55 for the period 1952-53 to 1964-65. These percentages give the linear growth rates per annum.

2.9. Linear growth rate for a crop or group of crops, as calculated above, would naturally depend upon the level obtaining in the base period *viz.* triennium ending 1951-52 for the first period and triennium ending 1954-55 for the second period. To give an idea of the effect of the base on the growth rates, an

attempt has been made to present growth rates of production of different crops during 1949-50 to 1964-65 with the following three base periods :

(i) 1949-50

(ii) Triennium ending 1951-52 (on annual indices and on 3-yearly moving averages)

(iii) Triennium ending 1954-55

These growth rates are given in Appendix 3·2.

2·10. *Compound Growth Rates.*—By taking time as the independent variable and the index numbers of area/production/productivity as the dependent variable, the following exponential was fitted :

$$y = AB^x$$

where,

y = index numbers of area/production/productivity

x = time

By taking logarithms of both sides of the equation, it takes the following form—

$$\log y = \log A + x \log B.$$

If, for convenience, we put  $\log A = a$  and  $\log B = b$ , the equation becomes

$$\log y = a + bx$$

This is a linear function with independent variable x and dependent variable log y. The compound growth rate is given by :

$$\text{Compound Growth Rate} = (\text{Anti log } b - 1) 100.$$

This compound growth rate represents a uniform rate of change from observation to observation.

2·11. *Standard Errors of Growth Rates.*—To have an idea of the precision of the various growth rates calculated as above, standard errors of the growth rates have also been computed. Standard errors of the all-India linear and compound growth rates of agricultural production, area under crops and agricultural productivity for different crops for both the periods—1949-50 to 1964-65 and 1952-53 to 1964-65—thus worked out are given in Appendices 6·1 to 6·4. Standard errors of State linear growth rates during 1952-53 to 1964-65 are given in Appendices 6·5 to 6·19. Standard errors of State compound growth rates during 1952-53 to 1964-65 are given in Appendices 6·20 to 6·34. State-wise standard errors of linear and compound growth rates of area under crops, production and productivity for all-crops, foodgrains and non-foodgrains are given in Appendices 6·35 to 6·40. Standard errors of State linear and compound growth rates of area, production and productivity for selected crops are given in Appendices 6·41 to 6·46.

2·12. *Goodness of Fit.*—The two types of trends fitted *viz.*, linear and exponential, have been tested for goodness of fit. For this purpose, the technique of analysis of variance has been made use of. This test has shown that in most cases both linear and exponential trends are good fits. In a few cases, however, the fit was observed to be not good due mainly to large fluctuations in the concerned series during the period under study. In these cases, a second degree curve was fitted and tested for goodness of fit. The results of the test are given in Appendices 6·47 to 6·63. In a second degree equation, the variation from observation to observation, unlike the linear trend, is not constant. For purposes of determining the growth rate of the concerned series, average variation

over the period studied has to be taken. If an arithmetic average is taken, the average variation works to be the same as the growth rate determined from the linear trend. Thus, for determining the growth rate in the case of the series for which linear and exponential equations are not good fits, second degree trend, yielding the same growth rate as the linear trend, has been assumed. While for purposes of the study of trends within the period under discussion, this procedure is valid, for purposes of projections for the future, a second or even higher degree curve will have to be used. Details of the cases where linear and exponential trends are not good fits are discussed in Chapter VI.

2.13. As productivity of land is defined as the ratio of total production divided by gross area, all in terms of index numbers with a corresponding base period, the following functional relationship exists :

$$O = A \times P \dots\dots\dots (1)$$

where O = Agricultural production  
A = Area under crops  
P = Productivity of land (yield)

By transforming the above relation and taking each of these variables as a function of time, growth rates are implicitly related in the following way :

$$O(t) = P(t) A(t) \dots\dots\dots (2)$$

The Statistics Division of the Food and Agriculture Organisation have observed that fitting of the same function of time to all the three variables *viz.* production, area and productivity may not be acceptable if the above relation were satisfied. Thus, for the variable O, the form of the function should be a quadratic form when linear equations are fitted to area and productivity, as under—

$$P = c + dt \dots\dots\dots (3)$$

$$A = e + gt \dots\dots\dots (4)$$

$$O = a' + b't + d't^2 \dots\dots\dots (5)$$

Thus,  $O = a' + b't + d't^2 = P \times A = (c + dt)(e + gt)$

$$a' = ce$$

$$b' = cg + de$$

$$d' = dg$$

The growth rate for 'O' *i.e.* production, would have been in the following form—

$$\frac{dO}{dt} = b' + 2d't \text{ and } \frac{dO}{dt} \times \frac{1}{O} = \frac{b' + 2d't}{a' + b't + d't^2} \dots\dots\dots (6)$$

If an average growth rate is required, an appropriate average of the above over time can be computed as already discussed in para 2.12 above.

A similar procedure can be followed in the case of the exponential equation.

The testing of significance is to be done by testing the computed parameters in (5) from the estimates in equations (3) and (4) against the direct estimates of the parameters in (5). The null hypothesis may be formulated in the following way—

$$\begin{pmatrix} a' \\ b' \\ d' \end{pmatrix} - \begin{pmatrix} a \\ b \\ d \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$$



Where the sign — indicates calculated parameters and  $\wedge$  indicates direct estimates of (5). Strictly speaking, the testing of this hypothesis is not an easy one, due to the fact that '—' figures are also random variables whose distribution is no longer normal, but the products of normal variables. But they can be taken as constant in this case.

2·14. It has been observed that linear equation is not a good fit for area and/or productivity in some cases. In such cases, therefore, a second degree or even a higher degree equation has to be fitted for area/productivity. In such cases a still higher degree curve will have to be used for production if the above approach is to be followed. However, the above approach was tried for all crops, foodgrains and non-foodgrains for the period 1949-50 to 1964-65 on annual indices without taking moving averages. The average growth rates of production calculated by fitting equations (3) and (4) above to index numbers of area and productivity and estimating the value of  $b'$  in equation (5) by the relationship  $b' = cg + de$ , are given in Appendix 3·4 along with the growth rates of production obtained by fitting linear equations to the index numbers of production. It will be seen that the differences in the two sets of growth rates are not large enough to justify the extra labour involved in the above approach. We have, therefore, in the present brochure, adopted the linear and exponential equation approaches for all the three series, viz. area, productivity and production.

2·15. It would be well to take note of the limitations of this study. The use of a single base period for all the States or for all the crops for purposes of computation of growth rates can give rise to some anomalies as the same period may not be normal for all the States or for all the crops. For example, if in respect of a particular State, the period selected is a relatively good period from the point of view of agricultural production, the growth rates are likely to be depressed. Similarly, if this period for a State is bad, the growth rates would be inflated. This limitation of a common base should, therefore, be borne in mind while using these figures.

2·16. In the State indices of agricultural production used in the present study, weights assigned to the same crop are not uniform as between different States being based on the prices prevailing in the respective States during the base period. This has the merit of reflecting in the indices of each State its cropping pattern and prices. Another approach for constructing the State indices could be the adoption of uniform weights for all the State series on the basis of all-India prices.

2·17. *Future Programme.*—In the present study, as in the earlier one, relative contribution of only area and yield to the growth of production has been studied. It is observed that besides area and yield, changes in cropping patterns also have an important bearing on the growth of production, particularly in those States where, over time, there have been significant shifts in area from one group of crops to another. With a view to having a more complete analysis of the trends in agriculture, a new scheme for construction of index numbers of area under crops, net area sown, cropping intensity, cropping pattern, yield, productivity per hectare of net area and agricultural production has been formulated and it is proposed to issue the revised series of index

numbers with a more recent common base period for both all-India and State series, viz., triennium ending 1961-62 and wider coverage, shortly. The formulae for the revised series of index numbers are given below :

$$\text{Index of Area under Crops} = \frac{\Sigma a_i}{\Sigma a_{i0}} \times 100 \quad . \quad . \quad . \quad . \quad . \quad (1)$$

$$\text{Index of Net Area Sown} = \frac{N_j}{N_0} \times 100 \quad . \quad . \quad . \quad . \quad . \quad (2)$$

$$\text{Index of Cropping Intensity} = \frac{\Sigma a_{ij}/N_j}{\Sigma a_{i0}/N_0} \times 100 = \frac{\Sigma a}{\Sigma a_{i0}} \times \frac{N_0}{N_j} \times 100 \quad (3)$$

$$\text{or } (1) \div (2) \times 100$$

$$\text{Index of Cropping Pattern} = \frac{\Sigma c_{ij}}{\Sigma c_{i0}} \frac{y_{i0}}{y_{i0}} \frac{p_{i0}}{p_{i0}} \times 100$$

$$= \frac{\sum \frac{a_{ij}}{\Sigma a_{ij}} \times y_{i0} p_{i0}}{\sum \frac{a_{i0}}{\Sigma a_{i0}} \times y_{i0} p_{i0}} \times 100$$

$$= \frac{\Sigma a_{ij}}{\Sigma a_{i0}} \frac{y_{i0}}{y_{i0}} \frac{p_{i0}}{p_{i0}} \times \frac{\Sigma a_{i0}}{\Sigma a_{ij}} \times 100 \quad . \quad (4)$$

$$\text{Index of Yield} = \frac{\Sigma a_{ij}}{\Sigma a_{ij}} \frac{y_{ij}}{y_{i0}} \frac{p_{i0}}{p_{i0}} \times 100 \quad . \quad . \quad . \quad . \quad (5)$$

$$\text{Index of Productivity Per Hectare of Net Area} = \frac{\Sigma a_{ij}}{\Sigma a_{i0}} \frac{y_{ij}}{y_{j0}} \frac{p_{i0}/N_j}{p_{i0}/N_0} \times 100$$

$$\text{or } \frac{(3) \times (4) \times (5)}{100 \times 100} \quad . \quad . \quad . \quad . \quad (6)$$

$$\text{Index of Agricultural Production} = \frac{\Sigma a_{ij}}{\Sigma a_{i0}} \frac{y_{ij}}{y_{i0}} \frac{p_{i0}}{p_{i0}} \times 100 \quad . \quad . \quad . \quad . \quad (7)$$

Index of Net Area Sown  $\times$  Index of productivity per hectare of Net Area.

$$\text{or } \frac{(2) \times (6)}{100} \quad \text{or}$$

$$\text{or } \frac{(1) \times (4) \times (5)}{100 \times 100}$$

Index of Area under Crops  $\times$  Index of Cropping Pattern  $\times$  Index of yield

$$\text{or } \frac{\quad}{100 \times 100}$$

where

$a_{i0}$  = Area under the  $i$ th crop in the base period.

$a_{ij}$  = Area under the  $i$ th crop in the  $j$ th year.

$N_0$  = Net area sown in the base period.

$N_j$  = Net area sown in the  $j$ th year.

$$C_{i0} = \frac{a_{i0}}{\sum a_{i0}}$$

$$C_{ij} = \frac{a_{ij}}{\sum a_{ij}}$$

$y_{i0}$  = Yield per hectare of the  $i$ th crop in the base period.

$y_{ij}$  = Yield per hectare of the  $i$ th crop in the  $j$ th year.

$p_{i0}$  = Price per unit of the  $i$ th crop in the base period.

2.18. On the basis of the revised all-India and State series, growth rates of **area under crops**, net area sown, cropping pattern, yield, productivity and agricultural production would be issued in subsequent issues of this brochure.

## CHAPTER III

### ALL-INDIA GROWTH RATES—1949-50 TO 1964-65

3.1. Ever since the launching of the First Five Year Plan, agricultural production has shown sizeable improvement despite year to year fluctuations. At the end of the First Plan, the all-India index of agricultural production (base : 1949-50 = 100) stood at 116.8 and at the end of the Second Plan it attained a high level of 142.2. During the first three years of the Third Plan, *viz.*, 1961-62 to 1963-64, agricultural production did not show any noticeable improvement over that of 1960-61, due mainly to unfavourable weather over extensive areas of the country. The index of agricultural production stood at 142.6 during 1963-64 against 142.2 in 1960-61. The year 1964-65 provided a welcome contrast to the first three years of the Third Plan in as much as the weather, on the whole, was quite favourable over major parts of the country, both during the kharif and rabi seasons. The index of agricultural production spurted to 157.6 in 1964-65 from 142.6 in the previous year. This increase in production has been mainly due to improvement in yields, the overall index of productivity (yield) having risen from 116.0 in 1963-64 to 126.9 in 1964-65. This is indicative of the positive role of agricultural development programmes. A glance at the index numbers of agricultural production will show that each successive peak has been higher than the previous peak and each successive trough less steep than the previous trough. The lowest level of agricultural production in the First Plan period was 97.5 and the lowest in the Second Plan period 115.9. The lowest in the first four years of the Third Plan was 137.5. The peak reached in the First Plan period was 117.0, in the Second Plan period 142.2 and in the Third Plan 157.6. This too goes to show that development efforts have been having positive impact on the progress of agricultural production in the country.

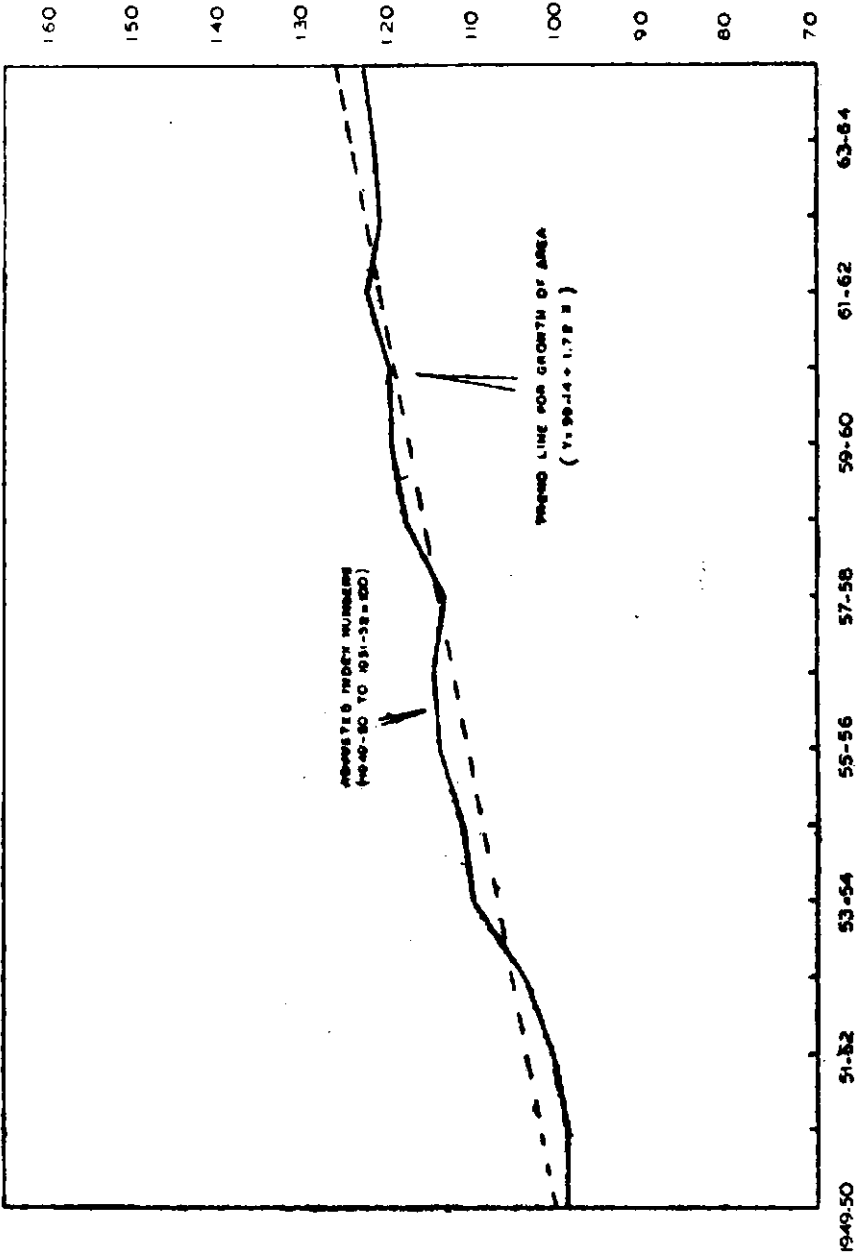
3.2. On a straight comparison of the level of agricultural production in 1964-65 with that in 1949-50, the average rate of increase in production works out to 3.84 per cent, the index having increased from 100 to 157.6 in a period of 15 years. Similarly, the average annual rate of increase in area under crops during the same period was 1.61 per cent and that in productivity 1.79 per cent. In view, however, of the year to year fluctuations in agricultural production, rates of increase calculated by comparisons of levels attained during two individual years would not normally give a correct picture of the underlying trends. To eliminate the effect of cyclical elements, growth rates have been calculated by fitting linear and exponential trends to the index numbers as described in Chapter II.

#### Growth Rates—Major Groups

3.3. All-India linear growth rates of agricultural production, area under crops and agricultural productivity (yield) during 1949-50 to 1964-65, with average of 1949-50 to 1951-52 as 100, are given below in Table 1

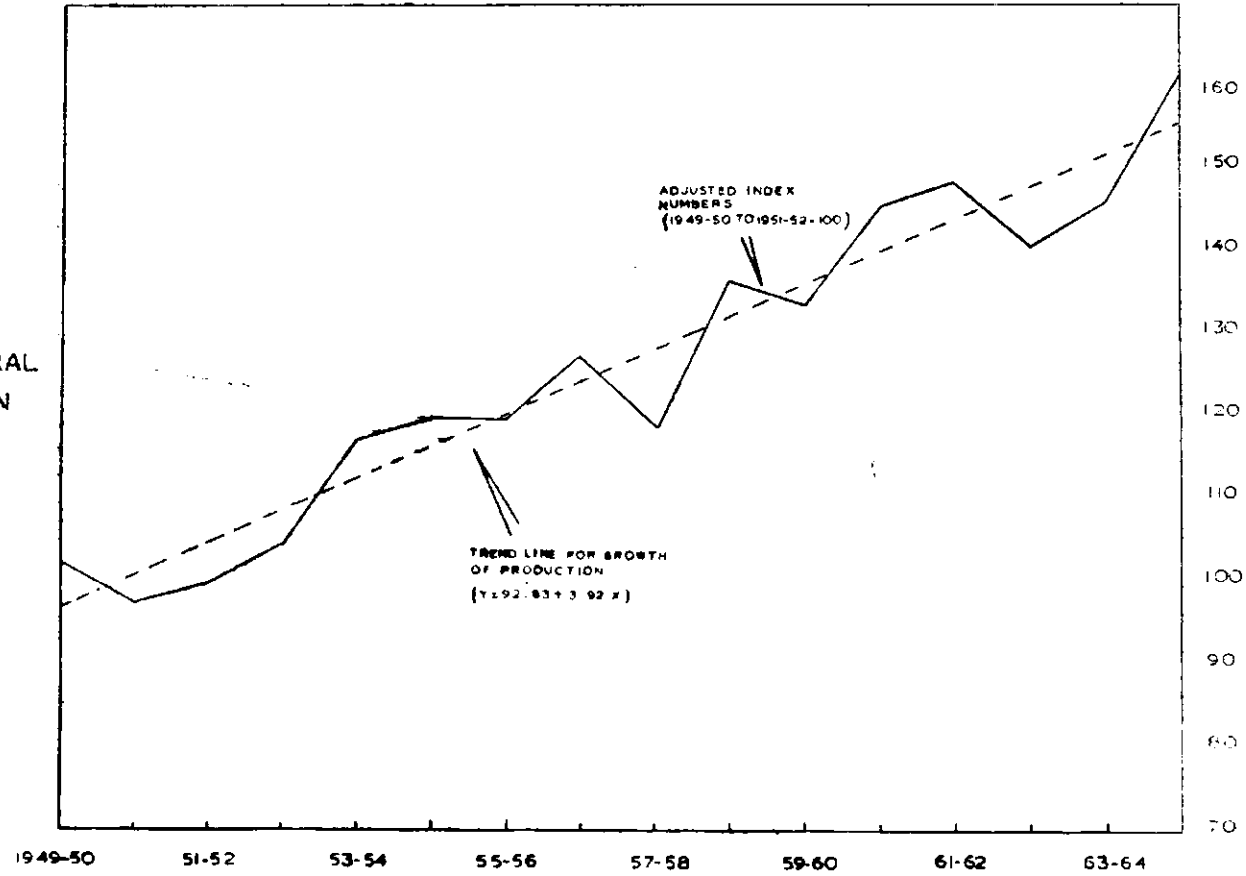
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ALL CROPS  
IN INDIA

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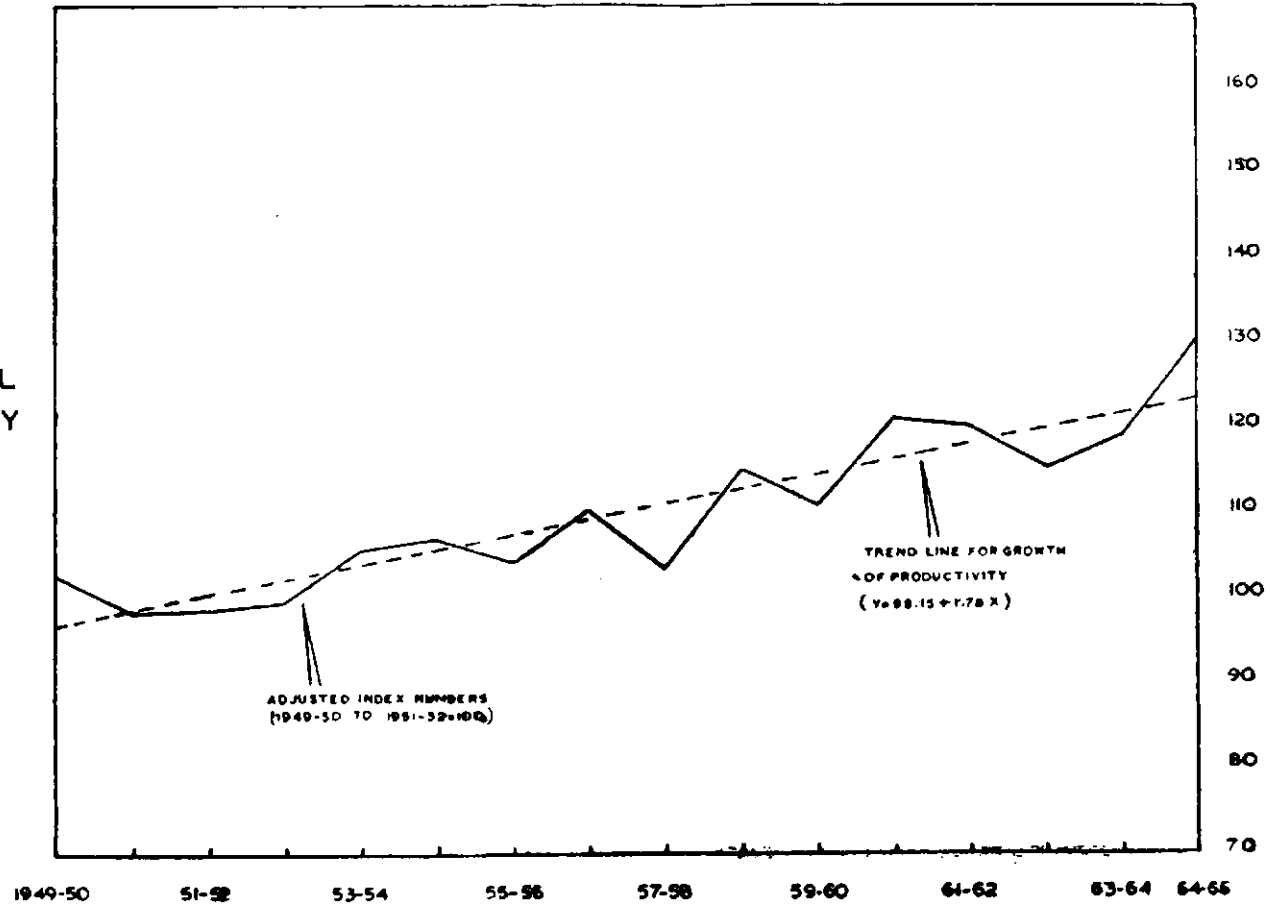
GROWTH  
OF  
OVER ALL  
AGRICULTURAL  
PRODUCTION  
IN INDIA

1949-50 TO 1964-65



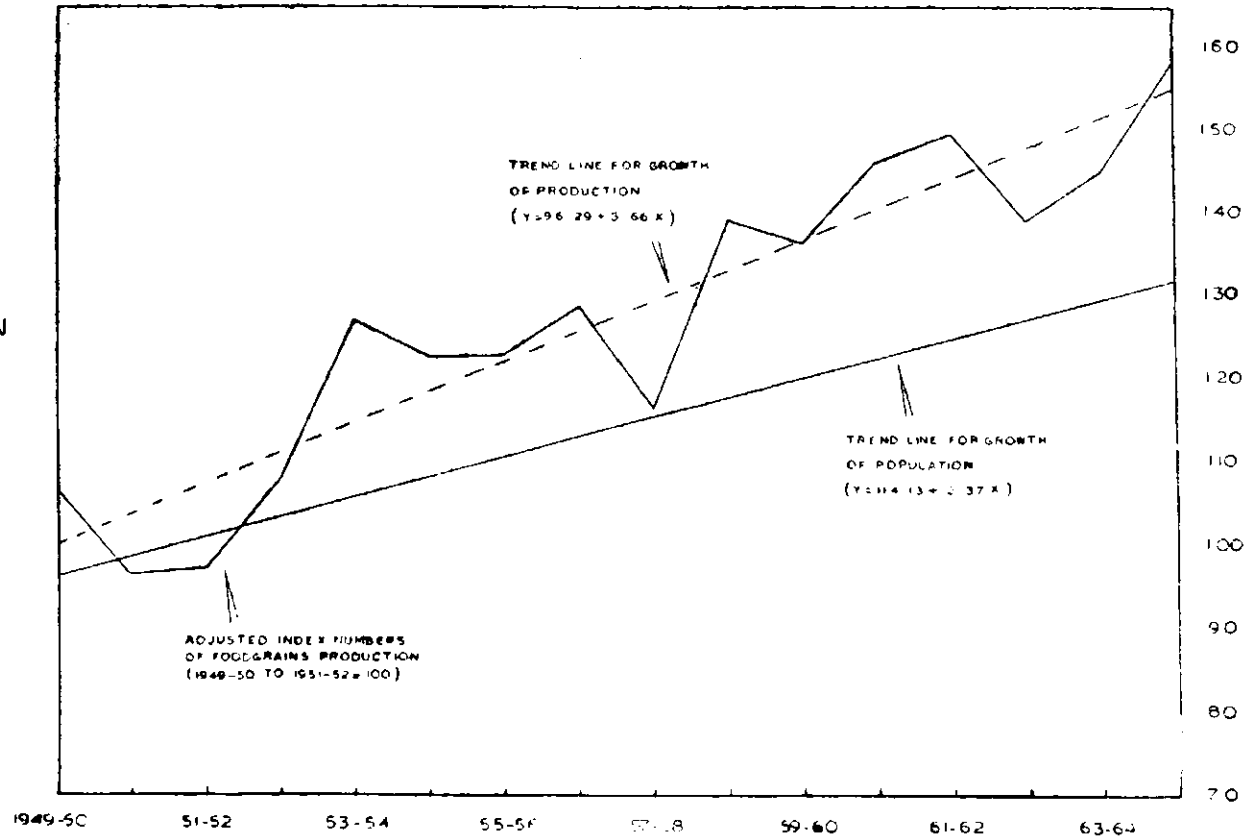
# GROWTH OF OVER-ALL AGRICULTURAL PRODUCTIVITY IN INDIA

1949-50 TO 1964-65



# GROWTH OF FOODGRAINS PRODUCTION AND POPULATION IN INDIA

1949-50 TO 1964-65





**TABLE 1**  
*All-India Linear Growth Rates during 1949-50 to 1964-65*  
(Average : 1949-50 to 1951-52=100)

	Agricultural Production (Per cent)	Area under Crops (Per cent)	Agricultural Productivity (Yield) (Per cent)
(i) Foodgrains . . . . .	3.66	1.48	1.80
(ii) Non-Foodgrains . . . . .	4.39	2.90	1.11
(iii) All Crops . . . . .	3.92	1.72	1.78

All-India compound growth rates of agricultural production, area under crops and agricultural productivity (yield) during 1949-50 to 1964-65 are given in the following table :

**TABLE 2**  
*All-India Compound Growth Rates during 1949-50 to 1964-65*

	Agricultural Production (Per cent)	Area under Crops (Per cent)	Agricultural Productivity (Yield) (Per cent)
(i) Foodgrains . . . . .	2.98	1.34	1.61
(ii) Non-Foodgrains . . . . .	3.61	2.52	1.06
(iii) All Crops . . . . .	3.19	1.55	1.60

Thus, over the period 1949-50 to 1964-65, agricultural production advanced at the average linear rate of 3.92 per cent per annum with the average level in the triennium ending 1951-52, as 100. Area under crops increased at the average linear rate of 1.72 per cent per annum and agricultural productivity (yield) at 1.78 per cent per annum during the same period. In terms of compound growth rates, which represent a uniform rate of change from observation to observation, agricultural production showed a rate of growth of 3.19 per cent per annum, area under crops 1.55 per cent and productivity (yield) 1.60 per cent per annum. The contribution of productivity (yield) to growth of production was somewhat higher than that of area in the case of foodgrains. The contribution of area in the case of non-foodgrains out-weighed that of productivity (yield). In the net, for all crops taken together, according to both the methods, the contribution of both area and productivity (yield) was almost equal, the rate of growth of productivity being marginally higher than that of area.

3.4. During the period 1949-50 to 1964-65, the rate of growth of area and production of non-foodgrains was much higher than that of foodgrains. The rate of growth of productivity was, however, much lower in the case of non-foodgrains than that of foodgrains.

3.5. It would be useful to compare the rates of growth of population and food production in the country ever since the initiation of planning. As against the compound rate of growth of 2.98 per cent per annum for foodgrains production, the rate of growth of population during the period under study was 2.09 per cent per annum. Domestic food production, thus, succeeded in keeping pace with population growth. However, the rate of growth of foodgrains production needs to be stepped up further to meet the higher levels of per capita consumption as a result of rise in standards of living.

## Growth Rate—Crop-wise

3.6. The above discussion relates to the all-India growth rates in the case of all crops taken together and the two major groups of crops *viz.* foodgrains and non-foodgrains. It would be interesting to study the behaviour of some important individual crops and sub-groups of crops. The following table gives the all-India linear growth rates of area under crops, agricultural production and productivity for important crops and groups of crops during 1949-50 to 1964-65, with the average of 1949-50 to 1951-52 as 100 :

TABLE 3

*All-India Linear Growth Rates during 1949-50 to 1964-65 Crop-wise*

(Average 1949-50 to 1951-52=100)

Crop/Group	Production (Per cent)	Area (Per cent)	Productivity (Yield) (Per cent)
Rice . . . . .	4.21	1.34	2.43
Jowar . . . . .	2.98	0.97	1.74
Bajra . . . . .	2.64	1.10	1.27
Maize . . . . .	4.97	3.13	1.22
Ragi . . . . .	3.30	0.55	2.58
Wheat . . . . .	5.25	3.18	1.39
Barley . . . . .	(—)0.26	(—)0.63	0.42
<b>Total Cereals</b> . . . . .	<b>3.93</b>	<b>1.33</b>	<b>2.18</b>
Gram . . . . .	3.34	1.87	1.08
<b>TOTAL PULSES</b> . . . . .	<b>1.86</b>	<b>2.12</b>	<b>(—)0.22</b>
<b>TOTAL FOODGRAINS</b> . . . . .	<b>3.66</b>	<b>1.48</b>	<b>1.80</b>
Groundnut . . . . .	5.23	4.65	0.32
Sesamum . . . . .	(—)0.50	0.15	(—)0.65
Rapeseed and Mustard . . . . .	3.90	3.33	0.42
<b>TOTAL OILSEEDS</b> . . . . .	<b>3.85</b>	<b>2.93</b>	<b>0.66</b>
Cotton . . . . .	6.05	2.79	2.28
Jute . . . . .	4.09	3.26	0.53
<b>TOTAL FIBRES</b> . . . . .	<b>5.77</b>	<b>2.91</b>	<b>2.02</b>
Tea . . . . .	2.25	0.53	1.62
Coffee . . . . .	14.63	2.42	9.42
Sugarcane . . . . .	5.57	3.68	1.36
Tobacco . . . . .	3.15	1.99	0.93
<b>TOTAL NON-FOODGRAINS</b> . . . . .	<b>4.39</b>	<b>2.90</b>	<b>1.11</b>
<b>ALL-CROPS</b> . . . . .	<b>3.92</b>	<b>1.72</b>	<b>1.78</b>

Crop-wise compound growth rates of production, area and productivity during 1949-50 to 1964-65 at the all-India level are given in appendix 3.3.

3.7. It will be seen that there are considerable variations in the magnitude of increase in the production of different crops and the relative contribution of area and yield to these increases. These variations stem mainly from the differences in the physical and climatic conditions under which the different crops are grown. Among cereals, wheat had the highest growth rate of

production followed by maize and rice. Growth rates of production of jowar, bajra and ragi were relatively lower. Barley had a negative growth rate. The pattern of relative contribution of area and yield to the increase in production of different crops in the sub-group also showed marked differences. In the case of rice, which is the most extensively cultivated crop in India and is generally grown in areas having assured rainfall or controlled irrigation, rate of increase in yield was almost double of that in area. The linear growth rate of production of rice during 1949-50 to 1964-65 was as high as 4.21 per cent per annum. Wheat, the second most important cereal crop, showed the highest linear rate of growth of 5.25 per cent per annum. In this case, however, the growth rate of area was much higher than that of yield. Maize is another cereal, which showed a high rate of growth of production of 4.97 per cent per annum. In this case also, the rate of growth in area was much higher than that in yield. Among millets, jowar and ragi had growth rates of production of 2.98 per cent and 3.30 per cent per annum respectively. In both the cases, improvement in yield was responsible for a major portion of the increase in production. In the case of bajra, which had a growth rate of production of 2.64 per cent per annum, area and yield contributed almost equally to the increase in production. The negative growth rate of production of barley was due to decrease in the area under the crop. The cereals sub-group had a linear growth rate of production of 3.93 per cent per annum and the increase in yields contributed more than that in area.

3.8. Among pulses, which had a growth rate of production of 1.86 per cent per annum, gram showed a relatively high rate of growth of production of 3.34 per cent per annum. While in the case of the pulses sub-group the growth rate of productivity was negative, growth rate of productivity of gram was 1.08 per cent per annum.

3.9. Among the two sub-groups of foodgrains *viz.* cereals and pulses, cereals had a higher rate of increase in production than the foodgrains group, while pulses had a lower rate of increase. In the case of cereals, growth of productivity (yield) was much higher than that of area. In the case of pulses, on the other hand, entire increase in production was due to increase in area, growth of productivity (yield) being negative.

3.10. Commercial crops as a whole had a linear growth rate of production of 4.39 per cent per annum during 1949-50 to 1964-65. The contribution of area was almost twice as much as that of productivity to the total increase in the production of 'non-foodgrains'. The fibres sub-group in the non-foodgrains group had a very high growth rate of production of 5.77 per cent per annum. A glance at the production indices for the sub-group would reveal a continuously rising trend from 100.0 in 1949-50 to 207.0 in 1963-64. In 1964-65, however, there was some set-back in production when the index stood at 201.1. The index of area under fibres has been more or less stationary after 1955-56. Still, the contribution of area to the increase in production during 1949-50 to 1964-65 was more than that of yield. Among the individual fibres, cotton had a very high growth rate of production of 6.05 per cent per annum. The contribution of area and productivity to this increase in production was more or less equal. In the case of jute, which had a growth rate of 4.09 per cent per annum, the relative contribution of area was much more.

3.11. Oilseeds, another important sub-group of 'non-foodgrains', had a growth rate of production of 3.85 per cent per annum. In this case, the contribution of area to the increase in production was much more than that of productivity. Among oilseeds, groundnut had a pretty high growth rate of production of 5.23 per cent per annum. Almost the entire increase was due to increase in area, the growth rate of productivity being as low as 0.32 per cent per annum. Rapeseed and mustard had, a growth rate of production of 3.90 per cent per annum. Here again, the relative contribution of area and yield was similar to that in the case of groundnut. Sesamum had a negative growth rate of production due to a heavy decline in its yield.

3.12. Among the other important non-foodgrain crops, coffee and sugarcane had high growth rates of production of 14.63 per cent and 5.57 per cent per annum respectively. While in the case of coffee most of the increase in production was due to improvement in yield, the reverse was the case with sugarcane. Tea, another important non-foodgrain crop, had a low rate of growth of production of 2.25 per cent per annum. The rate of growth of productivity of tea was, however, more than three times of the rate of growth of its area. In the case of tobacco, which had a growth rate of production of 3.15 per cent per annum, the growth rate of area was almost double of that of yield.

3.13. *Relative performance of Competing Crops.* -Among the competing crops of jowar, cotton and groundnut, cotton showed the highest growth rate of production of 6.95 per cent per annum. Groundnut was a close second with a growth rate of production of 5.23 per cent per annum. Jowar had a very low rate of growth of production of 2.98 per cent per annum. In the case of both cotton and groundnut, it was expansion of area which was responsible for the high rates of growth of production. On the contrary, in the case of jowar, improvement in yield was responsible for a major portion of the increase in production. While there has been a steady increase in the area under cotton and groundnut, area under jowar showed some increases during the initial years and thereafter a declining tendency seems to have set in. Productivity of groundnut has all along been below the 1949-50 level. It was only during 1964-65 that the index went above the base level and stood at 102.5. Though the productivity of jowar and cotton showed wide fluctuations from year to year, a long-term rising trend was clearly discernible.

## CHAPTER IV

### ALL-INDIA GROWTH RATES—1952-53 TO 1964-65

4.1. In the previous Chapter, all-India growth rates for the period 1949-50 to 1964-65 have been discussed. But, it will not be possible in their context to examine the relative contribution of States to the all-India growth, since, as already mentioned, the State growth rates have been computed for the period 1952-53 to 1964-65, the State indices being available on uniform basis for that period only. Hence the need for all-India growth rates for the period 1952-53 to 1964-65. These growth rates have been computed for production, area and productivity on the basis of the all-India index numbers. The all-India linear growth rates for foodgrains, non-foodgrains and all-crops during 1952-53 to 1964-65, with the average of 1952-53 to 1954-55 as 100, are given below:

TABLE 4  
*All-India Linear Growth Rates during 1952-53 to 1964-65*  
(Average: 1952-53 to 1954-55=100)

	Agricultural Production (Per cent)	Area under Crops (Per cent)	Agricultural Productivity (yield) (Per cent)
(i) Foodgrains . . . . .	2.75	1.02	1.60
(ii) Non-Foodgrains . . . . .	4.79	2.56	1.79
(iii) All Crops . . . . .	3.42	1.28	1.91

All-India compound growth rates of agricultural production, area under crops<sup>s</sup> and agricultural productivity (yield) during 1952-53 to 1964-65, are given in the following table:

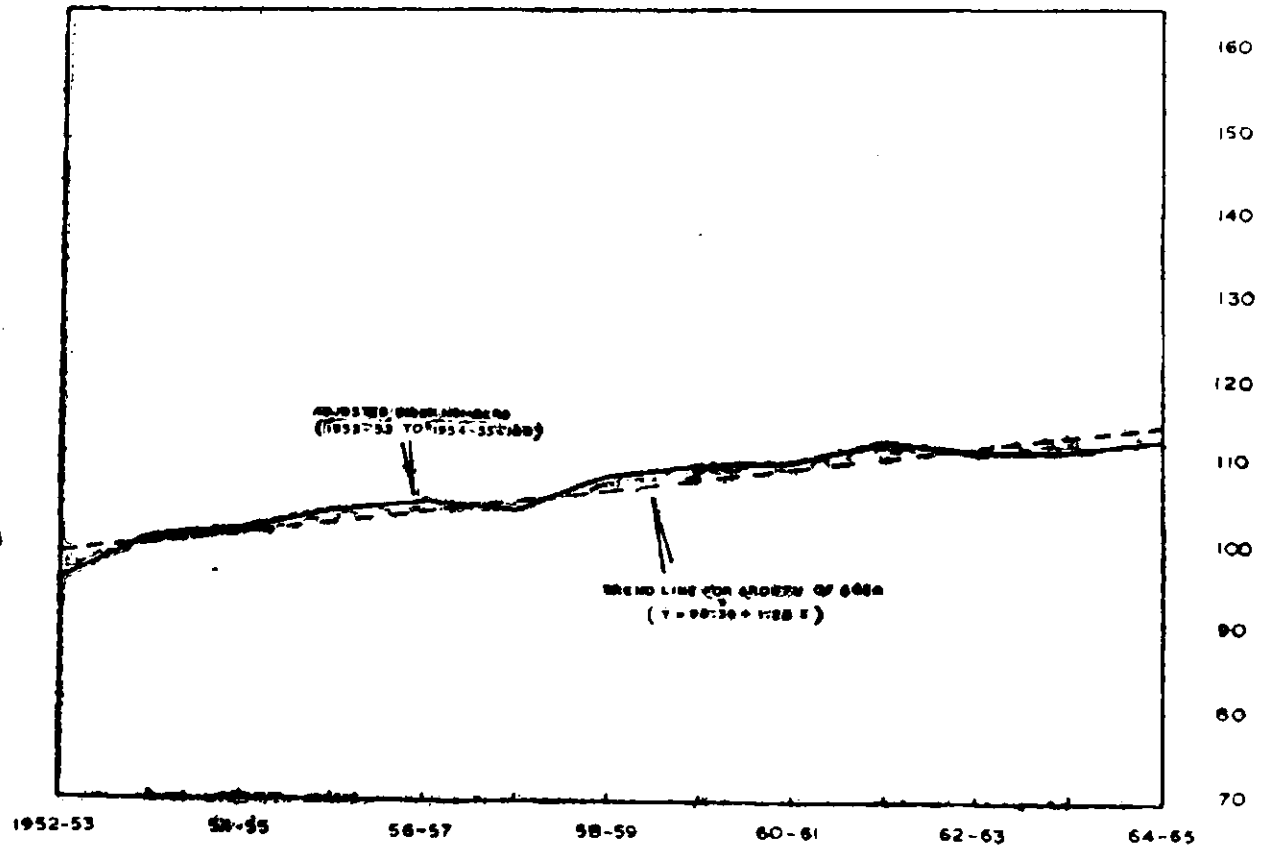
TABLE 5  
*All-India Compound Growth Rates during 1952-53 to 1964-65*

	Agricultural Production (Per cent)	Area under Crops (Per cent)	Agricultural Productivity (yield) (Per cent)
(i) Foodgrains . . . . .	2.50	0.98	1.51
(ii) Non-Foodgrains . . . . .	3.99	2.30	1.66
(iii) All-Crops . . . . .	3.01	1.21	1.77

4.2. During the period under study, the linear rate of growth of production of all-crops was 3.42 per cent per annum. To this rate of growth, productivity per acre which rose at a linear rate of 1.91 per cent per annum contributed more than area, which had a linear rate of growth of 1.28 per cent per annum. The rate of growth of production of foodgrains during this period was 2.75 per cent per annum. This was much lower than the rate of growth of production of

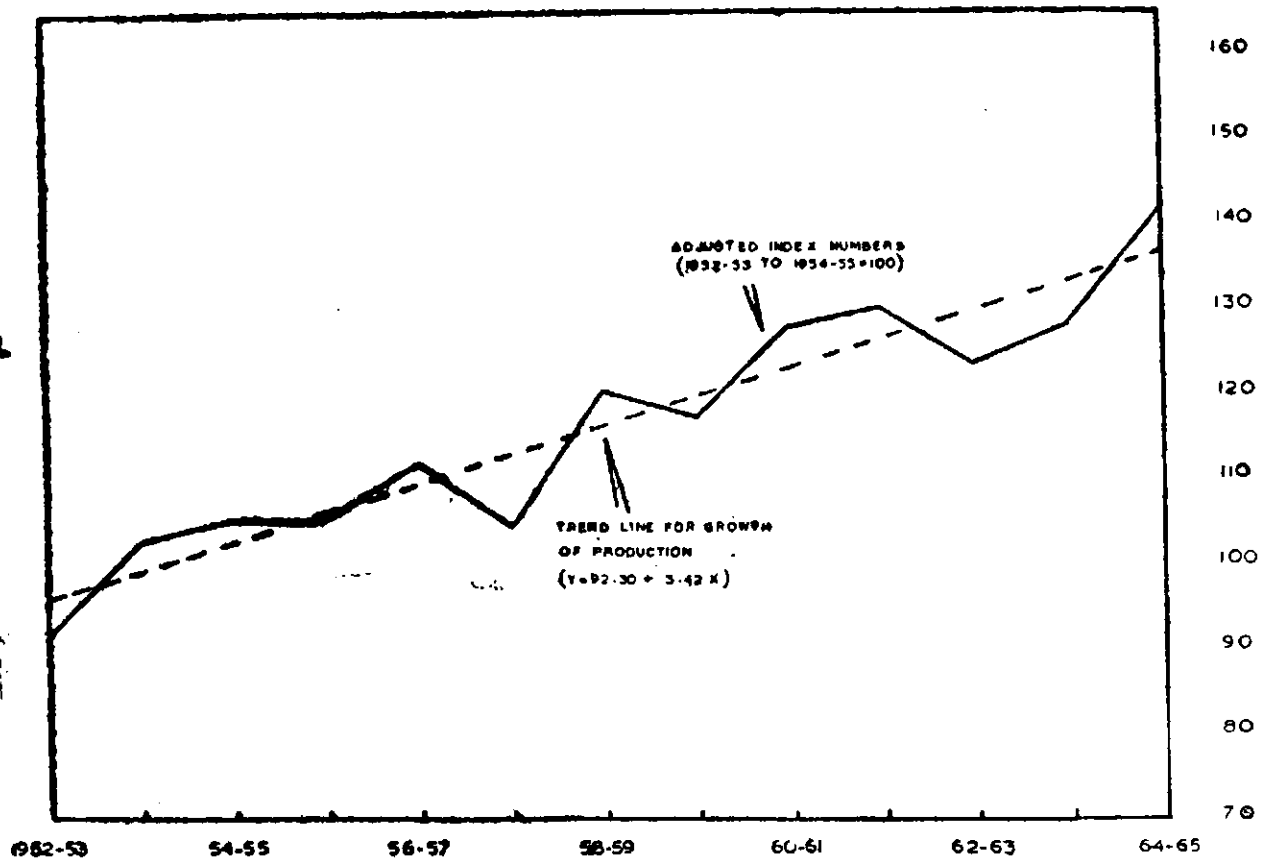
GROWTH  
OF  
AREA  
UNDER  
ALL CROPS  
IN INDIA

1952-53 TO 1964-65



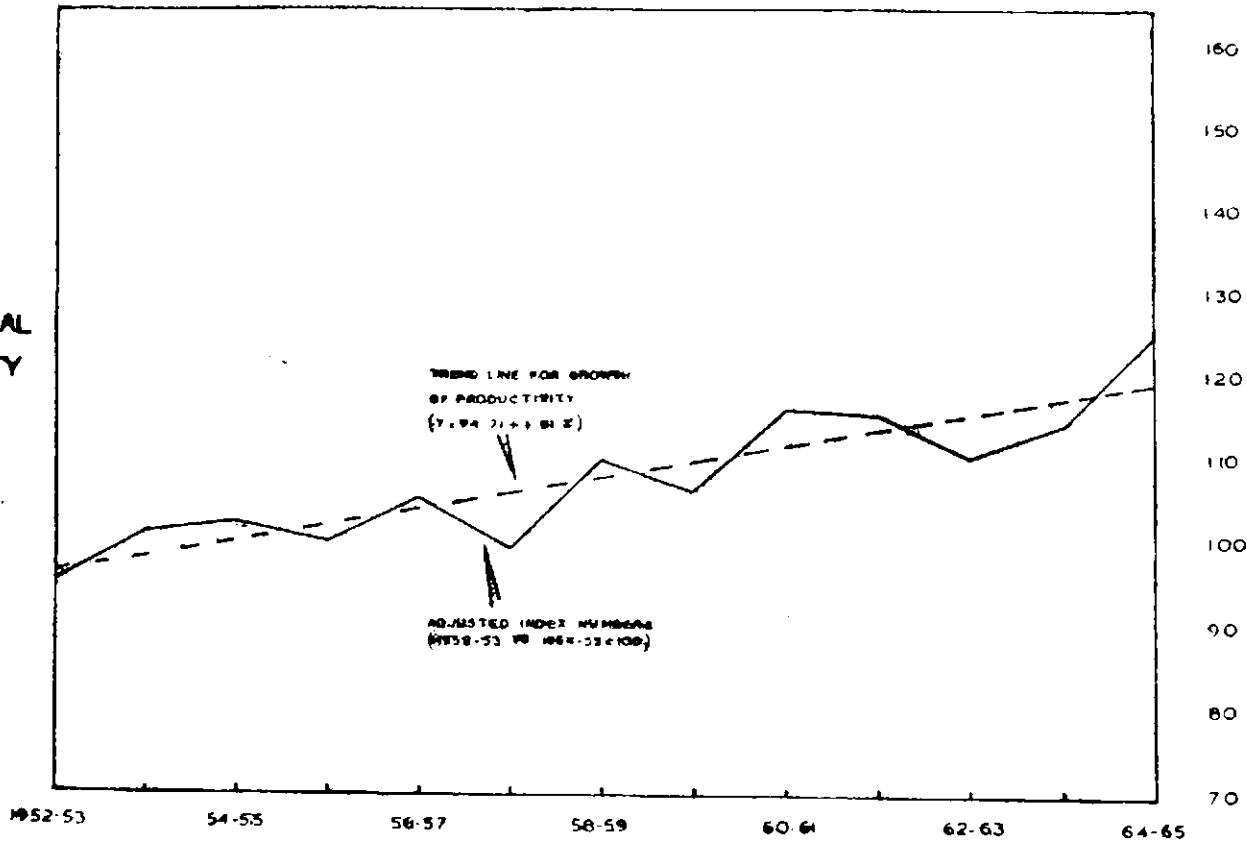
GROWTH  
OF  
OVER ALL  
AGRICULTURAL  
PRODUCTION  
IN INDIA

1952-53 TO 1964-65



GROWTH  
OF  
OVER-ALL  
AGRICULTURAL  
PRODUCTIVITY  
IN INDIA

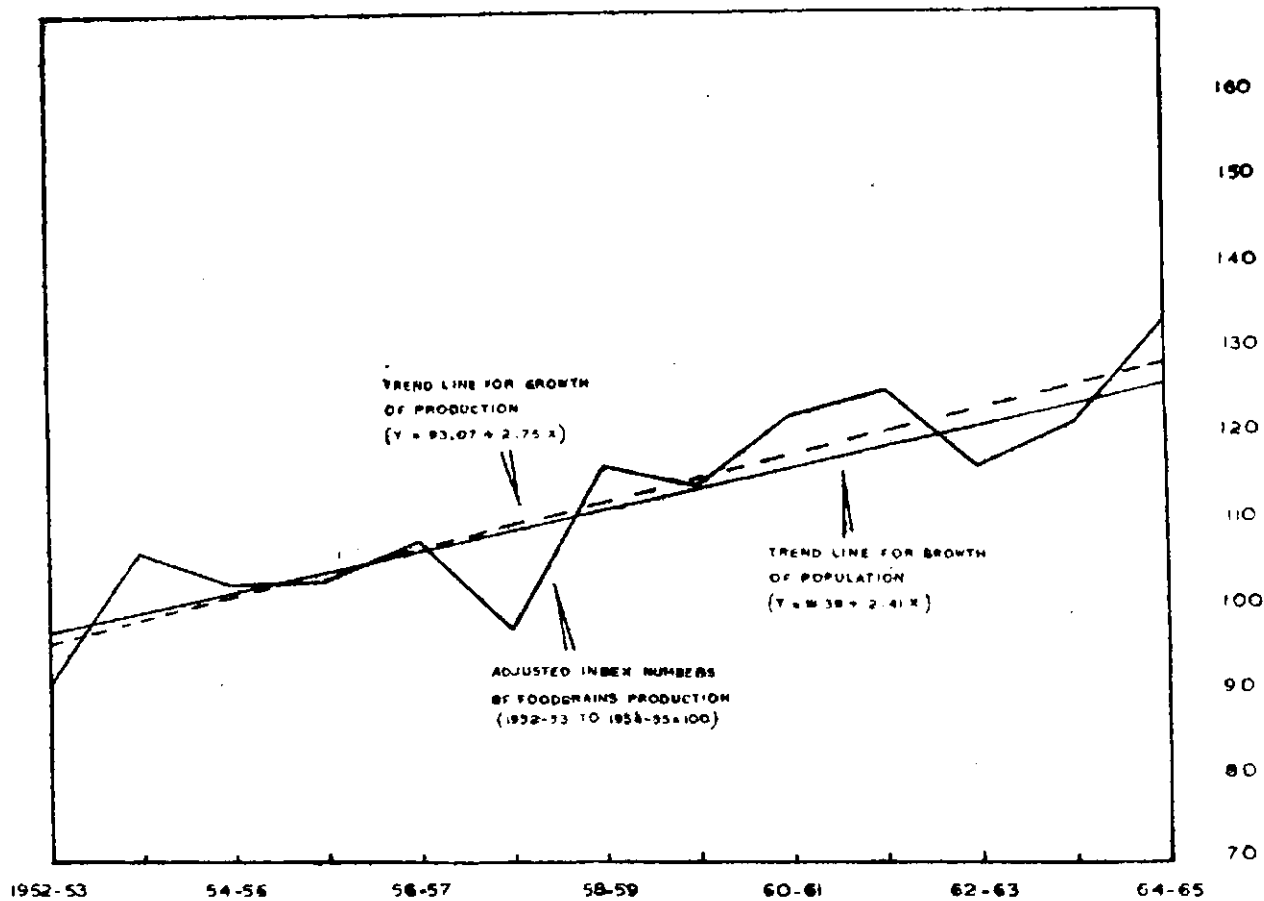
1952-53 TO 1964-65





GROWTH  
OF  
FOODGRAINS  
PRODUCTION  
AND  
POPULATION  
IN INDIA

1952-53 TO 1964-65



non-foodgrains, which was as high as 4.79 per cent per annum. The higher rate of growth of production in the case of non-foodgrains was, however, due more to increase in area than in productivity (yield). In the case of foodgrains, on the other hand, productivity had higher growth rate than that of area.

4.3. As in the case of period 1949-50 to 1964-65 growth rate of domestic food production was higher than the growth of population during the period 1952-53 to 1964-65 also. The compound rate of growth of population during the latter period was 2.19 per cent per annum against the compound growth rate of 2.50 per cent per annum for foodgrains production. As the rate of growth of population is expected to rise further in the near future following the acceleration of public health programmes, immediate efforts appear necessary to step up the present rate of growth of foodgrains production, so that population might not in the coming years outgrow foodgrains production.

### Growth Rates: Crop-Wise

4.4. The above discussion relates to the major groups of crops, viz., foodgrains and non-foodgrains and all-crops taken together. As in the case of the first period, the performance of individual crops during 1952-53 to 1964-65 has also been quite different. The following table gives the all-India linear growth rates of production, area and productivity (yield) for some of the important crops and groups of crops during 1952-53 to 1964-65, with the average of 1952-53 to 1954-55 as 100 :

TABLE 6

*All-India Linear Growth Rates during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55 = 100)

Crop/Group	Production (Per cent)	Area (Per cent)	Productivity (Yield) (Per cent)
1	2	3	4
Rice . . . . .	3.64	1.57	1.80
Jowar . . . . .	1.99	0.40	1.57
Bajra . . . . .	1.34	(—)0.20	1.62
Maize . . . . .	3.08	2.48	0.51
Ragi . . . . .	2.34	0.56	1.70
Wheat . . . . .	3.80	2.57	1.00
Barley . . . . .	(—)1.42	(—)1.36	(—)0.11
<b>TOTAL CEREALS</b> . . . . .	<b>3.05</b>	<b>0.93</b>	<b>1.96</b>
Gram . . . . .	0.85	1.16	(—)0.24
<b>TOTAL PULSES</b> . . . . .	<b>0.75</b>	<b>1.42</b>	<b>(—)0.57</b>
<b>TOTAL FOODGRAINS</b> . . . . .	<b>2.75</b>	<b>1.02</b>	<b>1.60</b>

TABLE 6—*contd.*

	1	2	3	4
Groundnut . . . . .		5.64	4.40	0.84
Sesamum . . . . .		(—)1.11	(—)0.24	(—)0.93
Rapeseed & Mustard . . . . .		3.86	3.34	0.50
<b>TOTAL OILSEEDS</b> . . . . .		<b>3.95</b>	<b>2.90</b>	<b>0.87</b>
Cotton . . . . .		3.81	1.27	2.25
Jute . . . . .		5.20	4.01	0.85
<b>TOTAL FIBRES</b> . . . . .		<b>4.60</b>	<b>1.61</b>	<b>2.51</b>
Tea . . . . .		2.42	0.65	1.67
Coffee . . . . .		11.65	3.03	6.47
Sugarcane . . . . .		7.83	4.93	1.93
Tobacco . . . . .		3.41	1.58	1.56
<b>TOTAL NON-FOODGRAINS</b> . . . . .		<b>4.79</b>	<b>2.56</b>	<b>1.79</b>
<b>ALL-CROPS</b> . . . . .		<b>3.42</b>	<b>1.28</b>	<b>1.91</b>

Crop-wise compound growth rates of production, area and productivity during 1952-53 to 1964-65 for all-India are given in Appendix 4.2.

4.5. Among foodgrains, the highest rate of growth of production of 3.80 per cent per annum was recorded by wheat, but that was due mostly to increase in area under the crop. Rice had a rate of growth of production of 3.64 per cent per annum and in this case increase in yield had a somewhat greater role to play than area under the crop. As a result of decline in both area and yield, barley showed a negative rate of growth of production. Maize had a high rate of increase of area with the result that its growth rate of production was above the rate for cereals and foodgrains. Jowar and Bajra, on the other hand, had low rates of growth of production due to low rate of increase of area for jowar and a negative growth rate of area for bajra. Among pulses, gram had a negative growth rate of productivity (yield) and this depressed its growth rate of production during the period under review. Among non-foodgrains, groundnut, jute, coffee and sugarcane showed high rates of growth of production during the period under study. In the case of the oilseeds sub-group, the rate of growth of production was influenced more by area than by productivity. In the case of jute, the relative contribution of area like that of oilseeds, was more than that of productivity. The same was the case with sugarcane, but coffee and a few other crops like cotton and tea, behaved somewhat differently, improvement in productivity contributing more than area to the increase in production.

#### India and the World

4.6. It would be useful to compare the progress in Indian agriculture with that in other countries of the world. Comparable index numbers of agricultural production for different countries as published by the F. A. O. are available for the period 1952-53 to 1963-64. These are given in Appendices 4.3 and 4.4.

The following table gives the growth rates of agricultural production and food production for different countries during 1952-53 to 1963-64, with the average of 1952-53 to 1954-55 as 100:

TABLE 7

*Linear Growth Rates of Agricultural Production and Food Production  
in different countries of the World during 1952-53 to 1963-64*

(Average : 1952-53 to 1954-55=100)

Countries	Agricultural Production (Per cent)	Food Production (Per cent)
<b>Far East—</b>		
India . . . . .	3.19	2.55
Burma . . . . .	2.34	2.55
Malaya . . . . .	4.63	7.57
Indonesia . . . . .	1.41	1.91
Japan . . . . .	3.49	3.74
Pakistan . . . . .	1.85	1.84
Philippines . . . . .	3.93	3.84
Thailand . . . . .	6.01	5.44
<b>Near East—</b>		
Turkey . . . . .	4.06	4.08
U.A.R. . . . .	4.06	4.72
<b>North America—</b>		
Canada . . . . .	1.34	1.25
U.S.A. . . . .	1.75	2.01
<b>Europe—</b>		
France . . . . .	3.13	3.11
Germany, Fed. Republic . . . . .	2.58	2.65
Italy . . . . .	2.07	2.80
U.K. . . . .	3.33	3.39
<b>Oceania—</b>		
Australia . . . . .	4.12	4.21
New Zealand . . . . .	3.58	2.93

NOTE.—Except for India, the index numbers of agricultural production and food production used for the above growth rates are those published by the F.A.O. in 'Production Year-Book, 1964'. For India, the index numbers as published by the Ministry of Food and Agriculture have been used. F.A.O.'s index numbers for India which are based on a different methodology, give a growth rate of 2.89 per cent for 'Agricultural Production' and 2.73 per cent for 'Food Production'.

4.7. As already mentioned in para 2.9, comparisons of agricultural growth among countries present certain difficulties because of the varying levels during the base period adopted for the study and the diverse conditions under which their economies are expanding. Further, as already mentioned in para 3.1, the last three years of the period studied were abnormal for India due to unfavourable weather over extensive areas of the country. This has naturally resulted in low growth rates of agricultural and food production for India. In spite of these limitations it can be broadly concluded that among the 18 countries studied, India had a higher growth of agricultural production than that achieved in eight countries, but lower than that realised in nine. Among the latter, there are many which are sufficiently advanced in industry to be able to provide abundant supplies of chemical fertilizers and other equipment needed for agriculture. The performance of many countries, however, points to the scope India has for stepping up her rate of growth.

## CHAPTER V

### STATE GROWTH RATES—1952-53 TO 1964-65

5.1. The preceding two Chapters dealt with the progress of agricultural production at the all-India level. With vast differences in soils, topography, climate, irrigation facilities, cropping patterns, etc., as between different States, the progress of agricultural production would not naturally be uniform over all the States. In areas having assured rainfall and potentialities for controlled irrigation, steady progress is possible. On the other hand, in areas where rainfall is low or scanty and irrigation facilities are available only to a small proportion of the cultivated area and where possibilities of further development of irrigation are limited, the progress in agricultural production would not only be lower in the long run as compared to the States with assured rainfall and adequate irrigation facilities but would also be halting and unsteady. Obviously, in such areas agricultural production would take longer time to get stabilised around higher levels.

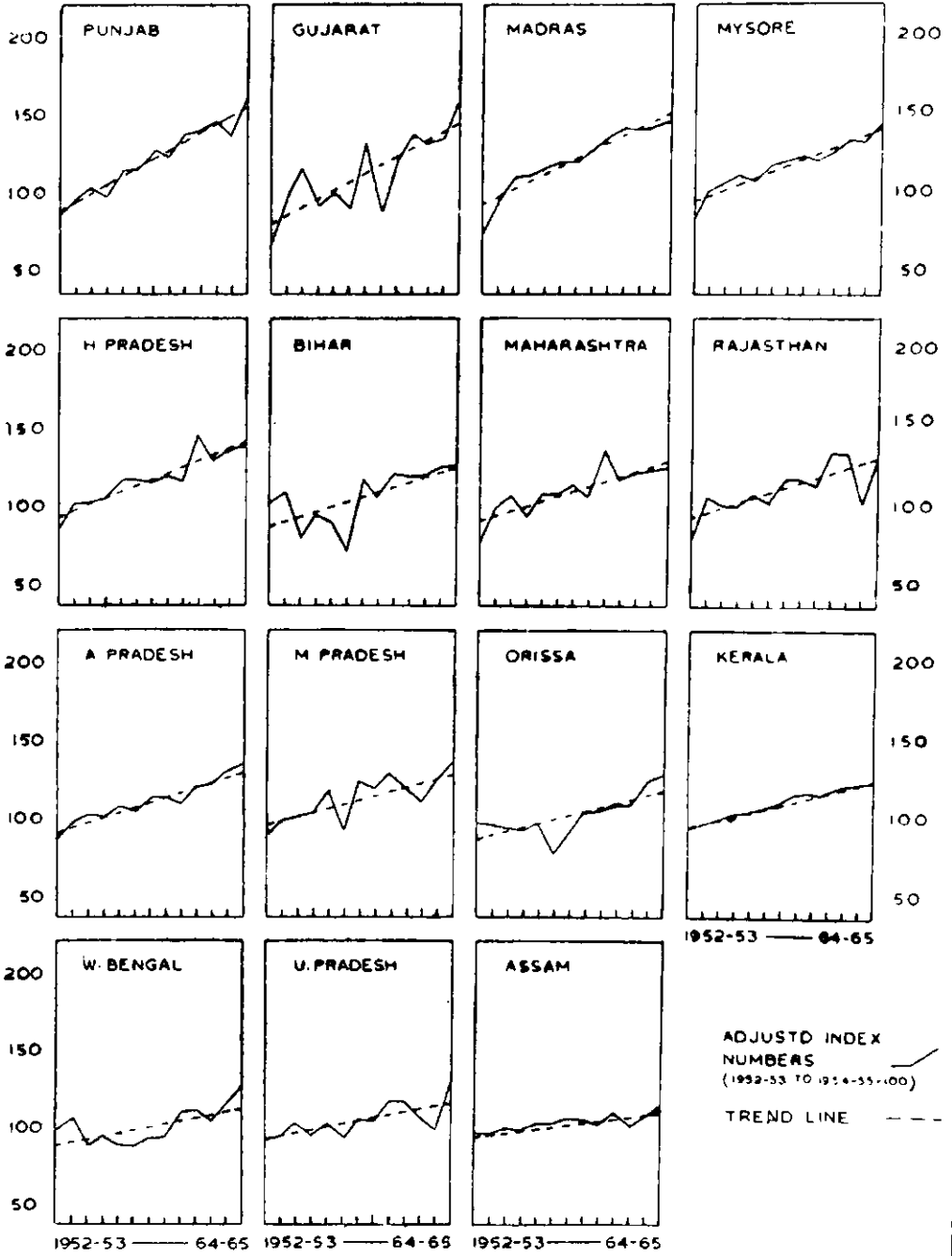
5.2. State index numbers of area under crops, agricultural production and agricultural productivity for the period 1952-53 to 1964-65 are given in Appendices 2.1 to 2.54. Linear rates of growth of area under crops, agricultural production and productivity for different States for this period are given in Appendices 5.1 to 5.15. Compound rates of growth for the period 1952-53 to 1964-65 are given in Appendices 5.16 to 5.30. State wise linear growth rates of agricultural production during 1952-53 to 1964-65, are arranged below in descending order, also providing comparison with all-India growth rates:

TABLE 8  
*State Linear Growth Rates of Agricultural Production during  
1952-53 to 1964-65*

(Average : 1952-53 to 1954-55=100)

State	Linear Growth Rate of Agricul- tural Production (Per cent)
<i>Higher (than all-India) Group</i>	
1. Punjab . . . . .	5.56
2. Gujarat . . . . .	5.12
3. Madras . . . . .	4.91
4. Mysore . . . . .	4.06
5. Himachal Pradesh . . . . .	3.93
ALL-INDIA . . . . .	
	4.42
<i>Lower (than All-India) Group</i>	
6. Bihar . . . . .	3.21
7. Maharashtra . . . . .	3.19
8. Rajasthan . . . . .	3.08
9. Andhra Pradesh . . . . .	3.06
10. Madhya Pradesh . . . . .	2.79
11. Orissa . . . . .	2.72
12. Kerala . . . . .	2.52
13. West Bengal . . . . .	2.07
14. Uttar Pradesh . . . . .	1.82
15. Assam . . . . .	1.25

GROWTH OF AGRICULTURAL PRODUCTION 1952-53 TO 1964-65 STATEWISE



5.3. State-wise compound growth rates of agricultural production during 1952-53 to 1964-65 are given in the following table:

TABLE 9  
*State Compound Growth Rates of Agricultural Production during  
1952-53 to 1964-65*

State	Compound Growth Rate of Agricultural Production (Per cent)
<i>Higher (than all-India) Group</i>	
1. Punjab . . . . .	4.56
2. Gujarat . . . . .	4.55
3. Madras . . . . .	4.17
4. Mysore . . . . .	3.54
5. Himachal Pradesh . . . . .	3.39
ALL-INDIA . . . . .	3.01
<i>Lower (than all-India) Group</i>	
6 Bihar . . . . .	2.97
7. Maharashtra . . . . .	2.93
8. Rajasthan . . . . .	2.74
9. Andhra Pradesh . . . . .	2.71
10. Madhya Pradesh . . . . .	2.49
11. Orissa . . . . .	2.48
12. Kerala . . . . .	2.27
13. West Bengal . . . . .	1.94
14. Uttar Pradesh . . . . .	1.66
15. Assam . . . . .	1.17

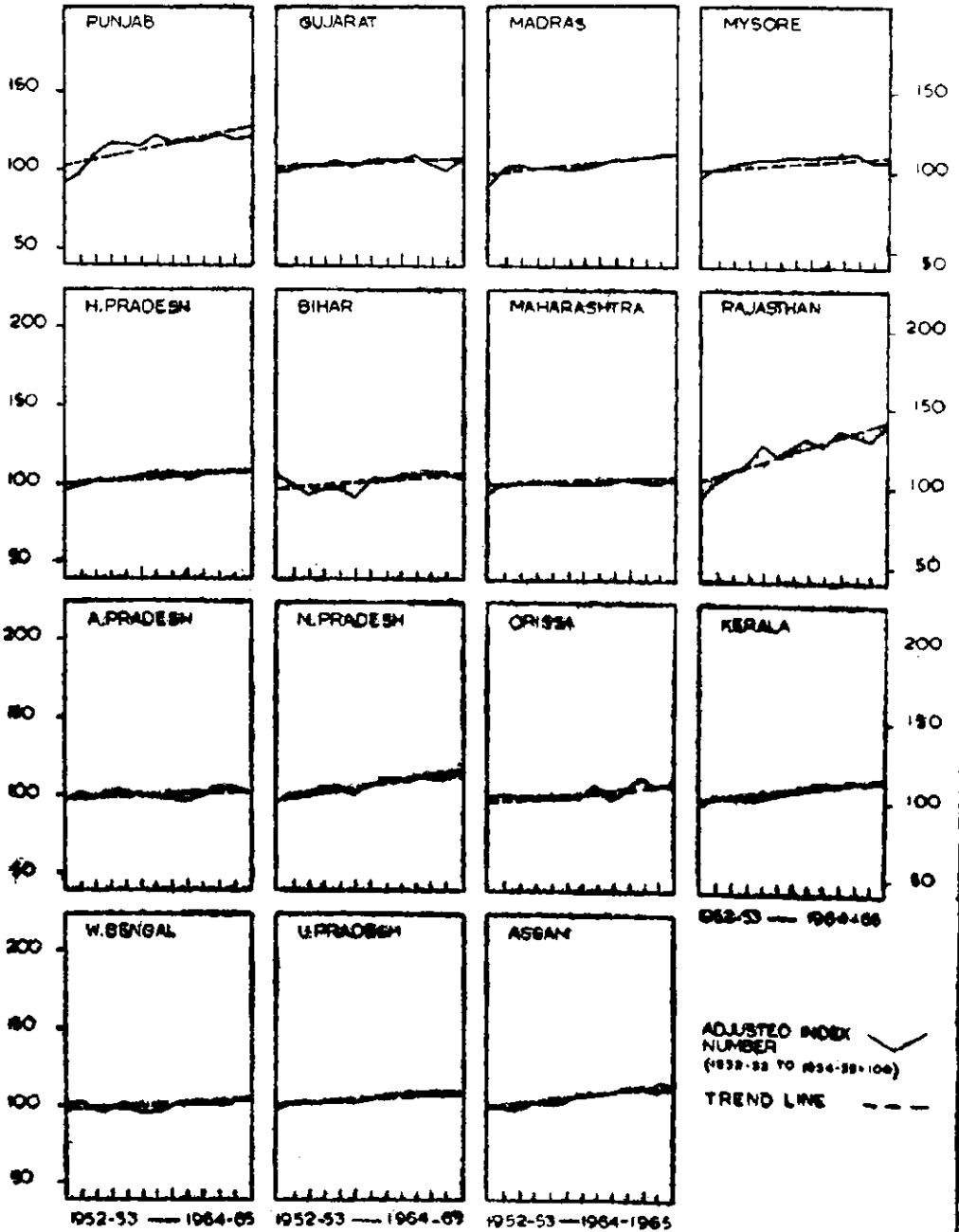
5.4. Five States of Punjab, Gujarat, Madras, Mysore and Himachal Pradesh showed rates of growth of agricultural production higher than all-India during 1952-53 to 1964-65. The States of Bihar, Maharashtra, Rajasthan, Andhra Pradesh, Madhya Pradesh, Orissa and Kerala showed moderate rates of growth of agricultural production, but lower than all-India. The States of West Bengal, Uttar Pradesh and Assam showed very low rates of growth, signifying a sluggish pace of agricultural development in these States. During the period under review, Assam is at the lowest rung of the ladder of agricultural development in the country, while Punjab is at the top. The highest growth rate of agricultural production in the country is roughly four times the lowest growth rate.

5.5. According to the study on growth rates of agricultural production during the period 1952-53 to 1961-62, issued by the Directorate of Economics and Statistics, the States of Madhya Pradesh, Maharashtra and Bihar had growth rates of agricultural production higher than all-India. With the addition of three more years to the period of the study, these States now show growth rates of agricultural production lower than all-India during the period 1952-53 to 1964-65. The State of Gujarat has, on the other hand, moved from the 'lower than all-India' group to the 'higher than all-India' group. Further, during the period 1952-53 to 1961-62, the States of Orissa and West Bengal had shown

### GROWTH OF AREA UNDER CROPS

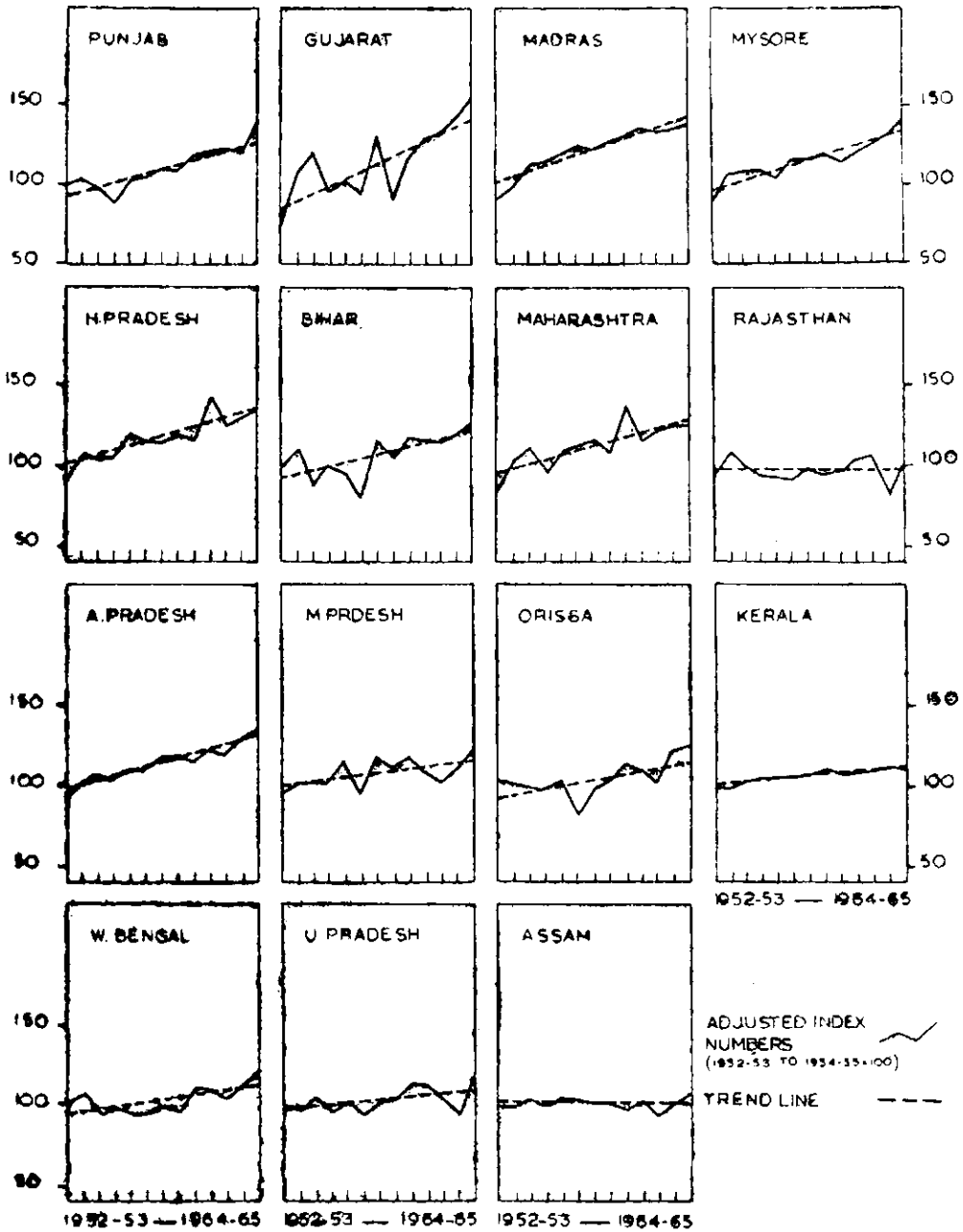
1952-53 TO 1964-65

STATE WISE





### GROWTH OF AGRICULTURAL PRODUCTIVITY 1952-53 TO 1964-65 STATEWISE



very low rates of growth of agricultural production. These States have shown some improvement during recent years. The States of Uttar Pradesh and Assam have, on the contrary, slid down the ladder and occupy the last but one and the last positions.

5.6. The pattern of contribution of area and yield to the overall growth of production is naturally quite different in different States. Usually, State with high rates of growth of agricultural production showed high rates of growth of productivity. The following table gives the linear rates of growth of area under crops and agricultural productivity for all crops taken together in the different States :

TABLE 10  
*State Linear Growth Rates of Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55 = 100)

State	Linear Growth Rate	
	Area under Crops (Per cent)	Agricultural Productivity (Per cent)
1. Punjab	2.06	2.86
2. Gujarat	0.46	4.52
3. Madras	1.13	3.46
4. Mysore	0.83	3.03
5. Himachal Pradesh	0.73	3.00
ALL-INDIA	1.28	1.91
6. Bihar	0.71	2.39
7. Maharashtra	0.44	2.62
8. Rajasthan	3.23	(—) 0.08
9. Andhra Pradesh	0.27	2.72
10. Madhya Pradesh	1.35	1.30
11. Orissa	0.84	1.78
12. Kerala	1.38	1.00
13. West Bengal	0.60	1.41
14. Uttar Pradesh	0.74	1.01
15. Assam	1.32	(—) 0.07

5.7. State-wise compound growth rates of area under crops and agricultural productivity for all-crops during the period 1952—53 to 1964—65 are given below :

TABLE 11  
*State Compound Growth Rates of Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

State	Area under Crops (Per cent)	Agricultural Productivity (Per cent)
1. Punjab	1.90	2.61
2. Gujarat	0.45	4.09
3. Madras	1.10	3.04
4. Mysore	0.81	2.71
6. Himachal Pradesh	0.71	2.67
ALL-INDIA	1.21	1.77

TABLE 11—*contd.*

State	Area under Crops (Per cent)	Agricultural Productivity (Per cent)
6. Bihar . . . . .	0.71	2.25
7. Maharashtra . . . . .	0.44	2.45
8. Rajasthan . . . . .	2.85	(—) 0.11
9. Andhra Pradesh . . . . .	0.26	2.45
10. Madhya Pradesh . . . . .	1.28	1.21
11. Orissa . . . . .	0.81	1.66
12. Kerala . . . . .	1.30	0.96
13. West Bengal . . . . .	0.59	1.34
14. Uttar Pradesh . . . . .	0.72	0.94
15. Assam . . . . .	1.25	(—) 0.08

5.8. It will be seen that Punjab, which had the highest growth rate of agricultural production, had high growth rates of both area and productivity, the latter being somewhat higher than the former. Gujarat had the highest linear growth rate of agricultural productivity (yield) of 4.52 per cent per annum. This was about 10 times the growth rate of area under crops during the same period. Madras had the next highest rate of growth of productivity of 3.46 per cent per annum, which was about three times the rate of growth of area under crops in the State. Similarly, in the case of the other States with high rates of growth of overall agricultural production, contribution of productivity was relatively more than that of area. For example, Mysore and Himachal Pradesh had growth rates of agricultural productivity of 3.03 per cent and 3.00 per cent per annum respectively which were about 4 times the rates of growth of area under crops in these two States. Among the States of the lower group, Rajasthan had a high rate of growth of area, highest in the country, but a negative rate of growth of productivity resulting in a moderate growth rate of overall agricultural production. The States of Andhra Pradesh, Maharashtra and Bihar had rates of growth of productivity higher than all-India but with their low rates of growth of area under crops, the growth rates of overall agricultural production were below all-India. In fact, Andhra Pradesh had the lowest growth rate of area under crops in the country. Both area and productivity rates were moderate in the case of Madhya Pradesh. Orissa and West Bengal had moderate rates of growth of productivity but low growth rates of area. In the case of Assam on the other hand, while the growth rate of area was somewhat higher than all-India, its growth rate of productivity was negative and this pulled down its growth rate of overall agricultural production considerably. On the whole it emerges that States with high rates of growth of agricultural production had high rates of growth of productivity. States with high rates of growth of area with the exception of Punjab, had low or even negative rates of growth of productivity presumably due to the extension of cultivation to marginal lands. As the scope for further extension of area under crops is limited, efforts have to be made to effect further increases in agricultural productivity to provide for the growing needs of the rapidly increasing population.

5.9. The first five States whose rates of growth of agricultural production are higher than all-India, accounted for a gross sown area of 38.65 million hectares in 1962-63, latest year for which data are available, which constituted about 25 per cent of the gross sown area in the country. The States of Bihar and Maharashtra, whose growth rates of agricultural production are just below all-India, accounted for a gross sown area of 30.05 million hectares, which constituted about 19 per cent of total all-India gross sown area. The next five States of Rajasthan, Andhra Pradesh, Madhya Pradesh, Orissa and Kerala, which had moderate rates of growth of overall agricultural production, accounted for a gross sown area of 55.47 million hectares or about 35 per cent of the all-India gross sown area during 1962-63. The remaining three States of West Bengal, Uttar Pradesh and Assam, which exhibited poor progress in agricultural production with very low rates of growth, accounted for a gross sown area of 31.10 million hectares or about 20 per cent of the all-India gross sown area during 1962-63. Thus, the 15 States, for which growth rates have been studied in this brochure, accounted for about 99 per cent of the total gross area sown in the country.

5.10. The first five States, with growth rates of agricultural production higher than all-India, recorded impressive increases in gross irrigated area, area sown more than once, and hence in gross sown area between 1952-53 and 1962-63. Thus, in Punjab and Madras, which had a high percentage of irrigated area at the beginning of the period under study, gross irrigated area went up by 30.0 and 41.5 per cent respectively during this period. In the case of Gujarat and Mysore, which had a low percentage of cultivated area under irrigation initially, gross area irrigated showed an increase of 55.3 and 54.3 per cent respectively. All the five States taken together showed an increase of about 38 per cent in gross irrigated area during the period under consideration. Area sown more than once went up by 113 per cent in Punjab between 1952-53 and 1962-63 resulting in an increase of 31.3 per cent in the gross sown area. This alongwith the impressive increase in irrigation pushed up the rates of growth of both area and productivity in the State resulting in the highest growth rate of overall agricultural production in the country. In the case of Madras, area sown more than once increased by 44.5 per cent and gross sown area by 18.2 per cent. This resulted in a moderate rate of growth of area under crops in the State. The State had, however, an impressive increase in gross irrigated area, which pushed up the percentage of gross irrigated area, to gross area sown from 37.8 in 1952-53 to 45.2 in 1962-63. This helped the State in having a very high rate of growth of agricultural productivity and, therefore, of overall agricultural production. In the case of Gujarat, gross sown area went up by only 12.7 per cent resulting in a very low rate of growth of area under crops. The State had, however, an impressive increase of 55.3 per cent in gross irrigated area between 1952-53 and 1962-63. This coupled with changes in cropping pattern in favour of high yielding and high value crops, resulted in the State having the highest growth rate of agricultural productivity in the country. Gross irrigated area and area sown more than once increased by about 54 per cent and 41 per cent respectively in Mysore, resulting in a pretty high rate of growth of agricultural productivity and, therefore, that of overall agricultural production.

5-11. Bihar, showed a modest increase of about 2.3 per cent in gross sown area with the result that the State had a modest growth rate of area under crops. Gross irrigated area in the State increased by about 15.5 per cent between 1952-53 and 1962-63. As a result, the State had a growth rate of agricultural productivity higher than all-India. Like Bihar, Maharashtra had a modest increase in gross area sown and, therefore a low growth rate of area under crops. On the other hand, it had an impressive increase of about 42 per cent in gross irrigated area during the period under review and this helped it to achieve a pretty high growth rate of agricultural productivity.

5-12. Among the States with moderate rates of growth of agricultural production, Rajasthan showed impressive increases in area sown more than once and gross sown area between 1952-53 and 1962-63. This pushed up the rate of growth of area under crops in the State to 3.23 per cent per annum, the highest in the country. As a result, however, of this large extension of cultivation in the State, the overall productivity showed some decline presumably due to bringing of marginal lands under the plough. The growth rate of agricultural productivity was, therefore, negative and this depressed to some extent the growth rate of overall agricultural production of the State. Despite a sizeable increase in gross irrigated area in Andhra Pradesh from 2.52 million hectares in 1952-53 to 3.79 million hectares in 1962-63, an increase of about 50 per cent, the State showed a low rate of growth of area under crops, the lowest in the country. An examination of the trend in net area sown in the State shows that it had a steady decline after the peak was reached in 1956-57; the decline between 1956-57 and 1960-61 being of the order of 0.59 million hectares. There was some recovery in 1961-62, when the net area sown increased to 11.29 million hectares from 10.78 million hectares in 1960-61. During 1962-63, there was a further increase in net area sown and it stood at 11.64 million hectares. During the next year, viz., 1963-64, net area sown in the State dropped down to 11.41 million hectares. This was thus, only marginally higher than the earlier peak level of 11.37 million hectares in 1956-57. The decline in net area sown during the period 1956-57 to 1960-61 is attributed to continuous failure of rains in Rayalaseema and Telangana regions of the State. Thus, while Andhra Pradesh had a rate of growth of productivity higher than all-India, it had a very low rate of growth of area and as a result only a moderate rate of growth of overall agricultural production. Madhya Pradesh, with a low percentage irrigated area of about 6 per cent, had a modest increase of about 13 per cent in gross sown area between 1952-53 and 1962-63. This resulted in a modest rate of growth of area under crops in the State. With a low percentage of irrigated area, the growth rate of productivity was also moderate with the result that the growth rate of agricultural production was modest. In the case of Orissa, gross irrigated area showed an increase of about 90 per cent between 1952-53 and 1962-63. This helped the State to achieve a fairly good rate of growth of agricultural productivity but with its low rate of growth of area, the State had only a moderate rate of growth of agricultural production. Kerala had an impressive increase of about 40 per cent in area sown more than once and this helped the State to achieve a growth rate of area higher than all-India. With a moderate rate of growth of productivity due mainly to an increase of about 30 per cent in gross irrigated area, the State had a moderate growth rate of agricultural production. In the remaining

States of West Bengal, Uttar Pradesh and Assam, not much progress has been witnessed, both in area and productivity, during the period under study.

5.13. Fertilizer use is another factor that needs to be considered for understanding the differences in growth rates of agricultural productivity realised in the different regions of the country. The immense possibilities for sustained increase in crop production which can be realised through greater and more efficient use of fertilizers have already been demonstrated in many countries all over the world. Apart from higher yields, benefits which may result from the increased use of fertilizers include the widening of the range of crops that can be grown efficiently, notably in areas where certain crops could not be grown earlier because of deficiency of one or more plant nutrients. The use of fertilizers can be regarded as a criterion of the degree to which modern agricultural practices have been adopted in the various regions of the country. The following table gives linear growth rates of agricultural productivity and fertilizer consumption (nitrogen) during 1964-65 in different States:

TABLE 12

*State-wise Linear Growth Rates of Agricultural Productivity during 1952-53 to 1964-65 and Total and Per Hectare Consumption of Fertilizer (Nitrogen) during 1964-65*

State	Linear Growth Rate* of Agricultural Productivity during 1952-53 to 1964-65 (Per cent)	Fertilizer Consumption (Nitrogen) during 1964-65	
		Total (Tonnes)	Per Hectare of Gross Sown Area (Kgs.)
1. Gujarat . . . . .	4.52	25,623	2.5
2. Madras . . . . .	3.46	71,862	9.9
3. Mysore . . . . .	3.03	26,230	2.4
4. Himachal Pradesh . . . . .	3.00	1,009	2.3
5. Punjab . . . . .	2.86	56,590	5.7
6. Andhra Pradesh . . . . .	2.72	108,709	8.5
7. Maharashtra . . . . .	2.62	59,594	3.1
8. Bihar . . . . .	2.39	22,175	2.0
9. Orissa . . . . .	1.78	7,227	1.0
10. West Bengal . . . . .	1.41	11,244	1.8
11. Madhya Pradesh . . . . .	1.30	14,584	0.8
12. Uttar Pradesh . . . . .	1.01	75,967	3.5
13. Kerala . . . . .	1.00	10,470	4.3
14. Assam . . . . .	(—)0.07	1,043	0.4
15. Rajasthan . . . . .	(—)0.08	9,779	0.7
ALL-INDIA . . . . .	1.91	538,275	3.4

\*Average : 1952-53 to 1954-55=100.

It will be seen that in 1964-65, Madras consumed some 71,862 tonnes of Nitrogen, which for a gross sown area of 7.29 million hectares gave an average consumption of 9.9 kg. per hectare. This was the highest fertilizer consumption recorded in any of the States in 1964-65. Punjab's consumption was about 57 thousand tonnes, which for an area of about 10 million hectares meant 5.7 kg. per hectare of gross area sown. Gujarat consumed about 25.6 thousand tonnes of Nitrogen which worked out to an average consumption of 2.5 kg. per hectare. Mysore had an average consumption of 2.4 kg. per hectare. Himachal Pradesh had a consumption of 2.3 kg. per hectare. In the States in the lower group, Andhra Pradesh had a total consumption of about 109 thousand tonnes of Nitrogen or an average consumption of 8.5 kg. per hectare of gross sown area. Uttar Pradesh had a consumption of 3.5 kg. per hectare. The consumption in Kerala was 4.3 kg. per hectare. For other States, fertilizer consumption varied between 0.4 kg. per hectare in Assam to 3.1 kg. per hectare in Maharashtra. That fertilizer consumption had a definite impact on the growth rate of agricultural productivity in Madras, Punjab and Andhra Pradesh is quite obvious.

#### Growth Rates : Major Groups

5.14. In the background of the above pattern of State growth rates of area under crops, agricultural production and agricultural productivity (yield) it will be interesting to study the growth rates for the two major groups of crops, viz. foodgrains and non-foodgrains in different States. The following table gives the linear growth rates of production of foodgrains and non-foodgrains and the ranking of different States:

TABLE 13

*All-India and State Linear Growth Rates of Agricultural Production during 1952-53 to 1964-65—All Crops, Foodgrains and Non-Foodgrains*

(Average : 1952-53 to 1954-55=100)

State	All-Crops (Per cent)	Foodgrains (Per cent)	Non-foodgrains (Per cent)
1. Punjab . . . . .	5.56 I	4.30 III	9.46 I
2. Gujarat . . . . .	5.12 II	2.09 XII	8.03 II
3. Madras . . . . .	4.91 III	4.89 I	4.96 IV
4. Mysore . . . . .	4.06 IV	3.71 V	4.91 V
5. Himachal Pradesh . . . . .	3.93 V	4.23 IV	1.63 XIV
6. Bihar . . . . .	3.21 VI	3.28 VII	2.61 XI
7. Maharashtra . . . . .	3.19 VII	2.29 XI	5.15 III
8. Rajasthan . . . . .	3.08 VIII	2.68 VIII	4.89 VI
9. Andhra Pradesh . . . . .	3.06 IX	3.65 VI	1.83 XII
10. Madhya Pradesh . . . . .	2.79 X	2.58 X	4.50 VII
11. Orissa . . . . .	2.72 XI	2.60 IX	3.40 X
12. Kerala . . . . .	2.52 XII	4.37 II	1.83 XIII
13. West Bengal . . . . .	2.07 XIII	1.16 XIII	4.23 IX
14. Uttar Pradesh . . . . .	1.82 XIV	0.91 XIV	4.28 VIII
15. Assam . . . . .	1.25 XV	0.80 XV	1.62 XV
ALL INDIA . . . . .	3.42	2.75	4.79

NOTE—Roman figures indicate the ranking of each State in the descending order of growth rates.

5-15. It will be seen that as in the case of all-crops, there are considerable variations in the growth rates of the two major groups of crops, *viz.*, foodgrains and non-foodgrains, from State to State. Even within the same State, performance of the two groups has been quite divergent in many cases. For example in Gujarat the rate of growth of foodgrains production was below the all-India level while that of non-foodgrains was very high, almost double of the all-India rate of growth. Similarly, in the case of West Bengal and U.P., the growth rates of foodgrains production were very low, while in the case of non-foodgrains the growth rates were quite high. In the case of Himachal Pradesh, Andhra Pradesh and Kerala, on the other hand, the growth rates of foodgrains production were very high, while the growth rates of non-foodgrains were very low. Taking all States, the growth rates of foodgrains production varied between 0.80 per cent per annum in Assam to 4.89 per cent per annum in Madras. For non-foodgrains, the growth rates varied between 1.62 per cent per annum in Assam to 9.46 per cent per annum in Punjab. Thus, both the lower and upper limits of the range were higher in the case of non-foodgrains as compared with the limits in the case of foodgrains.

5-16. The States of Punjab, Madras and Mysore did well in both foodgrains and non-foodgrains with growth rates higher than all-India. Punjab, with a growth rate of 5.56 per cent per annum for all crops, occupied the first position for non-foodgrains and third for foodgrains. Madras, with the overall growth rate of 4.91 per cent per annum, got the first place for foodgrains and fourth for non-foodgrains. Mysore, which ranked fourth for all crops with a growth rate of 4.06 per cent per annum had the fifth place for both foodgrains and non-foodgrains. While Mysore had a high growth rate for foodgrains, its growth rate of non-foodgrains was just a shade higher than all-India. Thus, even among these three States, Punjab and Madras only could be considered to have achieved a high balanced growth in respect of production of both foodgrains and non-foodgrains.

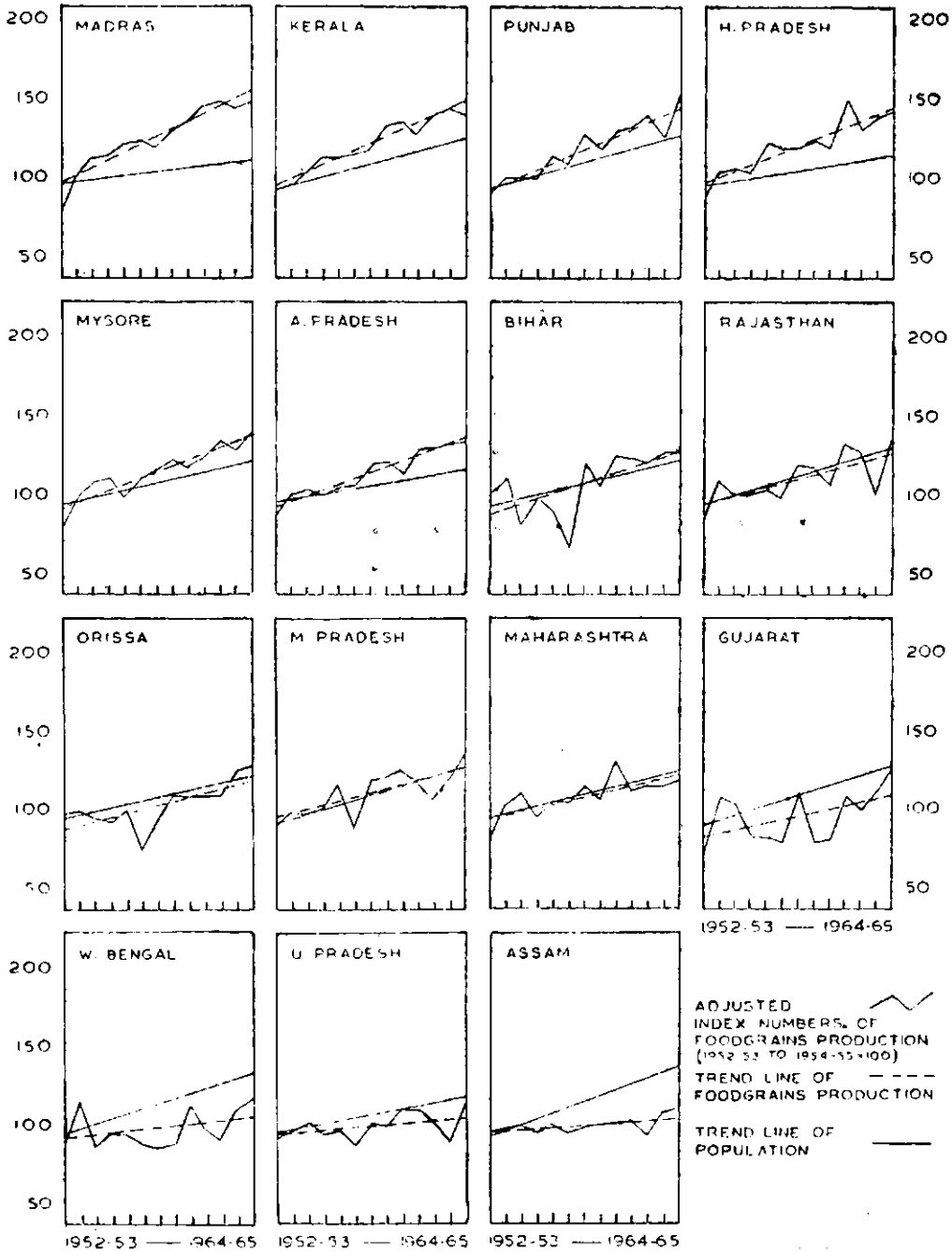
5-17. The States of Kerala, Himachal Pradesh, Andhra Pradesh and Bihar did well in foodgrains but not so well in non-foodgrains. Kerala, which had the second place for foodgrains, had the thirteenth place for non-foodgrains. Himachal Pradesh had the fourth place for foodgrains and fourteenth for non-foodgrains. Andhra Pradesh, which occupies the ninth place for all-crops, got the sixth position for foodgrains and twelfth for non-foodgrains, Bihar got the sixth position for all-crops with seventh position for foodgrains and eleventh for non-foodgrains.

5-18. The States of Gujarat, Maharashtra and Rajasthan did well in non-foodgrains but not so well in foodgrains. Gujarat's high growth rate of 8.03 per cent for non-foodgrains production pulled up its overall growth of agricultural production to the second place though it occupied the twelfth place for the foodgrains, Maharashtra occupied the third place for non-foodgrains and eleventh for foodgrains. Rajasthan had the sixth place for non-foodgrains and eighth for foodgrains.

5-19. The remaining States of Madhya Pradesh, Orissa, West Bengal, Uttar Pradesh and Assam had growth rates of production lower than all-India for both foodgrains and non-foodgrains.



GROWTH OF FOODGRAINS PRODUCTION & POPULATION  
1952-53 TO 1964-65  
STATE WISE



5.20. *Food grains Production and Population.*—At the all-India level, as already mentioned, domestic food production succeeded in keeping pace with the growth of population during the period 1952-53 to 1964-65. It would be useful to compare the position at the State level. The following table gives compound growth rates of foodgrains production and population in the different States during the period under consideration :

TABLE 14  
*Compound Growth Rates of Foodgrains Production and Population  
during 1952-53 to 1964-65*

State	Compound Growth Rates of	
	Foodgrains Production (Per cent)	Population (Per cent)
1. Madras . . . . .	4.17	1.25
2. Kerala . . . . .	3.68	2.33
3. Punjab . . . . .	3.66	2.61
4. Himachal Pradesh . . . . .	3.63	2.22
5. Mysore . . . . .	3.31	2.08
6. Andhra Pradesh . . . . .	3.21	1.63
7. Bihar . . . . .	3.05	2.12
8. Rajasthan . . . . .	2.42	2.68
9. Orissa . . . . .	2.39	2.16
10. Madhya Pradesh . . . . .	2.32	2.51
11. Maharashtra . . . . .	2.20	2.32
12. Gujarat . . . . .	2.06	2.61
13. West Bengal . . . . .	1.14	2.92
14. Uttar Pradesh . . . . .	0.85	1.84
15. Assam . . . . .	0.76	3.15
ALL INDIA . . . . .	2.50	2.19

Thus, the State with the lowest growth rate of population had the highest growth rate of foodgrains production. On the other hand, the State with the highest growth rate of population had the lowest growth rate of foodgrains production. From amongst the States under study, the States of Madras, Kerala, Punjab, Mysore, Andhra Pradesh, Bihar, Himachal Pradesh and Orissa had higher growth rates of foodgrains production than population. In the rest of the States, population growth outstripped the growth of foodgrains production.

5.21. The above discussions relate to the growth rates of production of foodgrains and non-foodgrains. As in the case of all crops, the pattern of contribution of area and productivity to the growth of production of these

groups has been quite different from State to State. The following table gives the growth rates of area and productivity in different States for foodgrains and non-foodgrains :

TABLE 15  
*State Linear Growth Rates of Area and Productivity of Foodgrains  
and Non-Foodgrains during 1952-53 to 1964-65*

(Average : 1952 53 to 1954-55=100)

State	Foodgrains		Non-Foodgrains	
	Area (Per cent)	Productivity (Per cent)	Area (Per cent)	Productivity (Per cent)
1. Punjab . . . . .	1.63	2.26	4.90	3.08
2. Gujarat . . . . .	(-)-2.19	5.34	5.93	1.64
3. Madras . . . . .	0.75	3.92	2.45	2.05
4. Mysore . . . . .	0.91	2.64	0.59	4.03
5. Himachal Pradesh . . . . .	0.63	3.40	3.27	(-)-1.30
6. Bihar . . . . .	0.64	2.55	1.84	0.78
7. Maharashtra . . . . .	0.33	1.94	0.83	3.65
8. Rajasthan . . . . .	3.03	(-)-0.23	5.13	(-)-0.09
9. Andhra Pradesh . . . . .	0.84	2.63	(-)-1.59	3.93
10. Madhya Pradesh . . . . .	1.28	1.16	1.67	2.44
11. Orissa . . . . .	0.79	1.75	1.65	1.54
12. Kerala . . . . .	0.51	3.74	2.06	(-)-0.20
13. West Bengal . . . . .	0.26	0.90	4.29	0.09
14. Uttar Pradesh . . . . .	0.40	0.49	2.19	1.72
15. Assam . . . . .	1.36	(-)-0.48	1.21	0.35
ALL-INDIA . . . . .	1.02	1.60	2.56	1.79

5.22. A very interesting picture emerges from the above table. In the case of Gujarat, the entire increase in the production of foodgrains was achieved as a result of improvement in productivity, growth rate for which was 5.34 per cent per annum, the highest in the country. In the case of non-foodgrains, on the other hand, area was mainly responsible for the increase in production. Growth rate of area under foodgrains was negative, viz. (-) 2.19 per cent per annum while that for non-foodgrains was 5.93 per cent per annum, the highest in the country, clearly showing diversion of area from foodgrains to non-foodgrains. In the case of Punjab, Madras and Bihar, while most of the increase in production of foodgrains was due to improvement in productivity, the contribution of area was higher than that of productivity for non-foodgrains. Mysore and Maharashtra show the same pattern for both foodgrains and non-foodgrains, productivity being higher than area. In the case of Himachal Pradesh, the rate of growth of productivity of foodgrains was very high, while in the case of non-foodgrains it was negative. In the case of Rajasthan, the high rates of growth of area resulted in negative growth rates of productivity for both foodgrains and non-foodgrains. Andhra Pradesh had pretty high

growth rates of productivity for both foodgrains and non-foodgrains but a low growth rate of area under foodgrains and a negative growth rate for area under non-foodgrains. In the case of Kerala, foodgrains had a very high growth rate of productivity, while non-foodgrains had a negative growth rate of productivity. West Bengal had low growth rates of productivity for both foodgrains and non-foodgrains but very high growth rate of area for non-foodgrains and very low for foodgrains. Assam had a negative growth rate of productivity of foodgrains and a low positive growth rate of productivity for non-foodgrains.

### Growth Rates : Crop-Wise

5.23. As in the case of all-India, growth rates of area, production and productivity of selected crops have also been computed for the major producing States for the period 1952-53 to 1964-65. These are given in Appendices 5.1 to 5.30 and are briefly discussed in the succeeding paragraphs.

5.24. *Rice*.—Among foodgrains, which occupy nearly four-fifths of the total cultivated area in the country, rice occupies the foremost position. State-wise growth rates of production, area and productivity of rice during 1952-53 to 1964-65 are given in the following table for the important rice producing States :

TABLE 16  
*Linear Growth Rates of Area, Production and Productivity of Rice during 1952-53 to 1964-65*

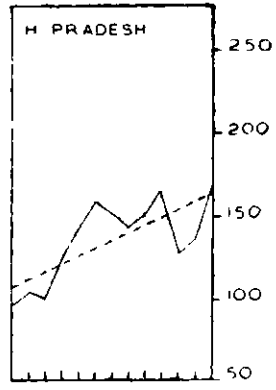
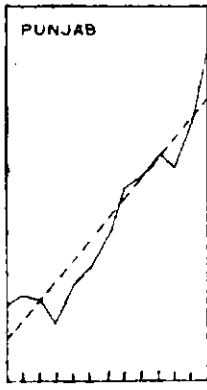
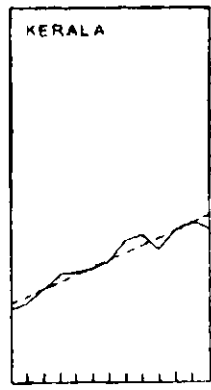
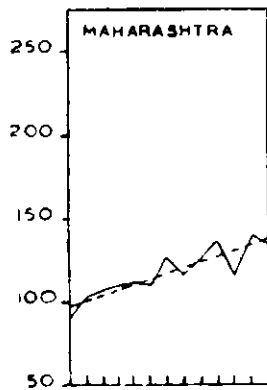
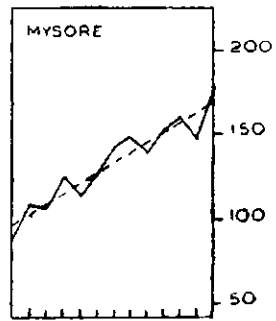
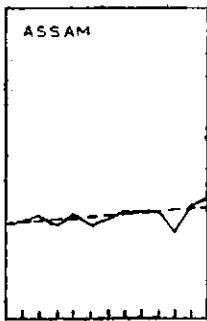
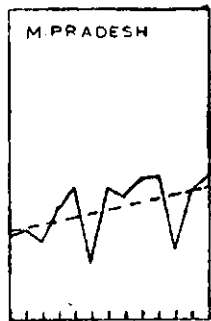
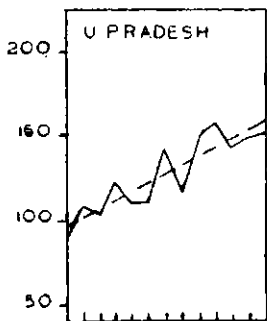
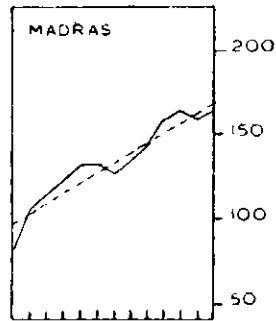
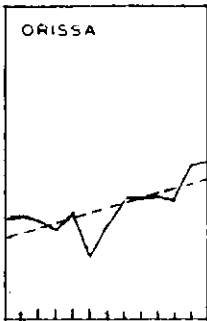
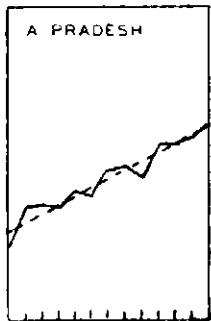
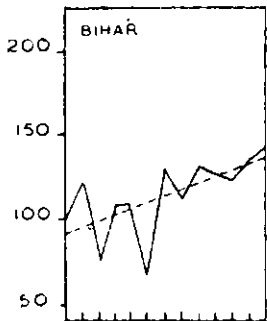
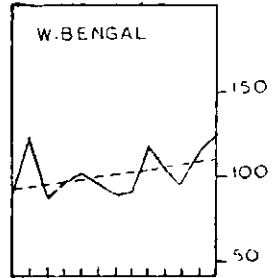
(Average : 1952-53 to 1964-65=100)

State	Percentage of Rice Production in the State to All-India (Triennium ending 1964-65)	Growth Rates of		
		Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1. West Bengal . . . . .	14.4	1.42	0.13	1.29
2. Bihar . . . . .	12.8	3.63	0.23	3.36
3. Andhra Pradesh . . . . .	11.5	5.15	3.19	1.56
4. Orissa . . . . .	11.5	2.88	1.14	1.60
5. Madras . . . . .	11.0	6.04	3.19	2.19
6. Uttar Pradesh . . . . .	9.0	5.08	1.97	2.61
7. Madhya Pradesh . . . . .	8.5	2.34	1.28	0.93
8. Assam . . . . .	4.9	0.78	1.32	(—)0.47
9. Mysore . . . . .	4.1	5.96	1.97	3.33
10. Maharashtra . . . . .	3.8	3.38	1.75	1.41
11. Kerala . . . . .	3.1	4.42	0.53	3.70
12. Punjab . . . . .	1.5	12.31	9.21	1.80
13. Himachal Pradesh . . . . .	0.1	4.61	0.29	4.18
ALL-INDIA . . . . .	100.0	3.64	1.57	1.80

Against the all-India growth rate of rice production of 3.64 per cent per annum, the relatively minor rice growing State of Punjab had a very high growth rate of 12.31 per cent per annum. On the other hand, the State with the highest proportion of all-India rice production, *viz.* West Bengal, showed a very low rate of growth of production of 1.42 per cent per annum. Growth Rates of both area and productivity were also relatively lower in the case of West Bengal.

GROWTH OF  
RICE PRODUCTION  
1952-53 TO 1964-65  
STATE WISE

ADJUSTED INDEX NUMBERS  
(1952-53 TO 1954-55 = 100)  
TREND LINE - - - - -



1952-53 — 1964-65    1952-53 — 1964-65    1952-53 — 1964-65    1952-53 — 1964-65

This can be attributed to the competing claims of jute, a highly commercial crop, on the available land and the fact that rice is cultivated largely under rainfed conditions, the percentage of irrigated area to the total area under rice in the State being less than 30 per cent. On the other hand, in Punjab 74 per cent of rice area receives irrigation. With the extension of irrigation facilities in Punjab during recent years, there has been a large expansion of area under the crop showing a growth rate of about 9 per cent per annum during the period under review. The southern States of Madras, Mysore, Andhra Pradesh and Kerala, which accounted for about 30 per cent of all-India production of rice, showed high growth rates of rice production. All these States had a high percentage of irrigated area under the crop, it being 92 per cent in Madras, 61 per cent in Mysore, 90 per cent in Andhra Pradesh and 46 per cent in Kerala. The State of Uttar Pradesh accounting for 9 per cent of all-India production of rice, had a pretty high rate of growth of production. Improvement in yields contributed relatively more to the increase in production than area. Bihar which accounts for 12·8 per cent of all-India rice production, had more or less the same growth rate of rice production as all-India and most of it was due to improvement of yield of the crop. Maharashtra had a growth rate of rice production of 3·38 per cent per annum. The eastern States of Assam, Orissa and West Bengal, accounting for over 30 per cent of all-India rice production, had pretty low rates of growth. Thus, the States of Madras, Mysore, Andhra Pradesh Kerala, U.P., Punjab, Himachal Pradesh and Bihar, accounting for about 40 per cent of the all-India rice production, showed higher growth rates of rice production than all-India.

5·25. *Jowar*.—The second most important cereal from the point of acreage is jowar. Linear growth rates of production, area and productivity of jowar during 1952-53 to 1964-65, for the important producing States are given in the table below :

TABLE 17  
*Linear Growth Rates of Area, Production and Productivity of Jowar during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55=100)

State	Percentage of Jowar Production in the State to All-India (Triennium ending 1964-65)	Growth Rates of		
		Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1. Maharashtra . . . . .	34·4	2·95	0·87	1·91
2. Madhya Pradesh . . . . .	16·0	2·81	(—)0·24	3·22
3. Mysore . . . . .	14·6	2·71	1·78	0·91
4. Andhra Pradesh . . . . .	13·9	1·62	0·18	1·26
5. Madras . . . . .	6·2	4·61	0·10	4·46
6. Uttar Pradesh . . . . .	5·9	(—)1·31	(—)0·78	(—)0·58
7. Gujarat . . . . .	4·5	1·28	(—)1·59	3·21
8. Rajasthan . . . . .	3·8	(—)0·59	0·59	(—)1·10
9. Punjab . . . . .	0·5	0·36	0·42	0·15
ALL-INDIA . . . . .	100·0	1·99	0·40	1·57

In the case of jowar, improvement in yield was a major factor in the increase in production during the period under review, linear growth rate of productivity for all-India being 1.57 per cent per annum against the growth rate of area of 0.40 per cent per annum. It will be seen from Table 16 that in absolute terms, the growth rate of productivity of jowar was considerably lower than that of rice. The most important jowar producing State of Maharashtra, accounting for over one-third of all-India production of jowar, showed a pretty high growth rate of jowar production of about 3 per cent per annum. Most of the increase in production was due to improvement in the yield of the crop in the State, linear growth rates of area and productivity being 0.87 per cent and 1.91 per cent per annum respectively. Madras, which accounts for only 6 per cent of the all-India production of jowar, had the highest growth rates of production and productivity of jowar in the country. Growth rate of area under the crop in Madras was as low as 0.10 per cent per annum. The States of Madhya Pradesh and Mysore also showed high rates of growth of jowar production. While in the case of Madhya Pradesh, the growth rate of area under jowar was negative thereby showing that the entire increase in production was due to improvement in yield. In the case of Mysore, increase in area contributed more to the increase in production than improvement in yield. Andhra Pradesh had a low growth rate of production of jowar due mainly to a very low growth rate of area under the crop. Uttar Pradesh and Rajasthan had negative growth rates of production of jowar. In the case of U.P., growth rates of both area and productivity were negative. In the case of Rajasthan while the growth rate of area was higher than all-India, the growth rate of productivity was negative. In the case of Gujarat there has been considerable diversion of area from jowar to other high yielding cereals and to commercial crops like cotton and groundnut with the result that the State had a high negative growth rate of area under jowar and though it had a high positive growth rate of productivity of jowar, the growth rate of production was pretty low.

5.26. *Bajra*.—Linear growth rates of production, area and productivity of bajra during 1952-53 to 1964-65 for important bajra producing States, are given in the following table :

TABLE 18  
*Linear Growth Rates of Area, Production and Productivity of Bajra during 1952-53 to 1964-65*

(Average: 1952-53 to 1954-55=100)

State	Percentage of Bajra Production in the State to All-India (Triennium ending 1964-65)	Growth Rates of		
		Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1. Rajasthan . . . . .	25.2	4.13	3.73	0.51
2. Gujarat . . . . .	16.1	(-)0.37	(-)4.04	5.96
3. Uttar Pradesh . . . . .	15.2	(-)1.12	(-)0.94	(-)0.27
4. Maharashtra . . . . .	12.3	1.48	(-)1.12	3.10
5. Andhra Pradesh . . . . .	8.0	0.74	(-)0.89	1.88
6. Punjab . . . . .	8.0	(-)2.32	(-)2.59	0.58
7. Madras . . . . .	7.7	3.60	(-)2.24	7.63
ALL-INDIA . . . . .	100.0	1.34	(-)0.20	1.62

Rajasthan, which is by far the most important bajra producing State accounting for about one-fourth of the all-India production of the crop, showed a very high rate of growth of area under the crop of 3.73 per cent per annum. In spite of the large expansion in the area under bajra in the State, there was some improvement in the productivity per acre, with the result that the growth of production of bajra during the period under review was as high as 4.13 per cent per annum against the all-India growth rate of 1.34 per cent per annum. In the case of all the other States, there has been shrinkage in the area under the crop. This can be explained by the fact that bajra is a dry crop and with the extension of irrigation in different States during recent years there has been some diversion of area to high yielding wet foodgrains or even to some commercial crops like cotton and groundnut, as in Gujarat. Madras had the highest growth rate of productivity of bajra and this contributed to its high growth rate of production. Gujarat, Maharashtra and Andhra Pradesh also had high growth rates of productivity of bajra. Uttar Pradesh was the only State which did not show any improvement in the productivity per acre of the crop; in fact it had a negative growth rate of productivity of bajra and this coupled with a negative growth rate of area under the crop resulted in a negative growth rate of production. Punjab had a high negative growth rate of production of barja.

5.27. *Maize*.—Linear growth rates of production, area and productivity of maize during 1952-53 to 1964-65 for the major maize growing States, are given in the following table :

TABLE 19

*Linear Growth Rates of Area, Production and Productivity of Maize during 1952-53 to 1964-65*

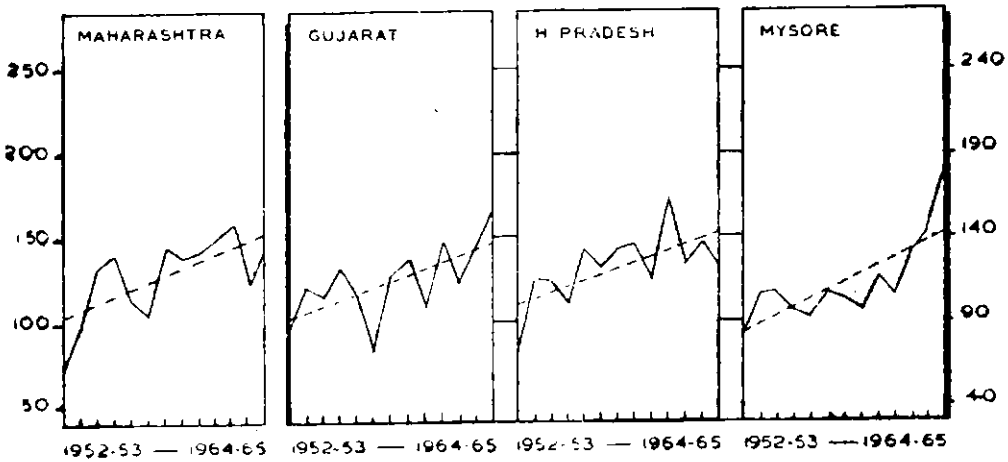
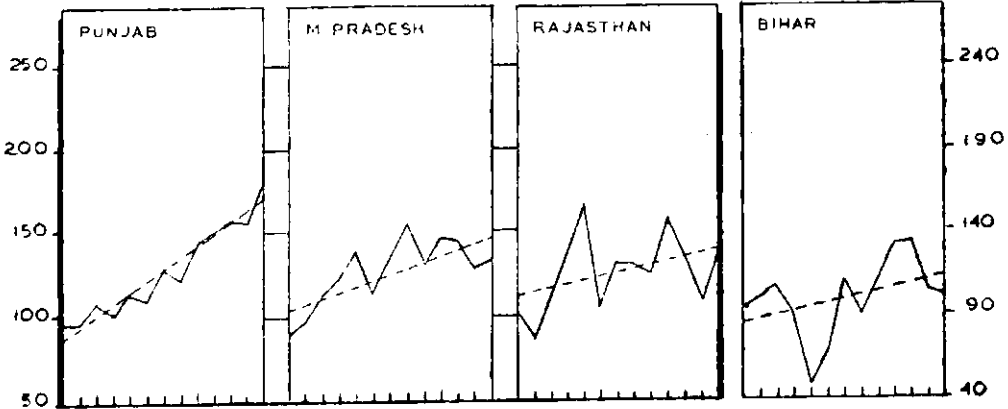
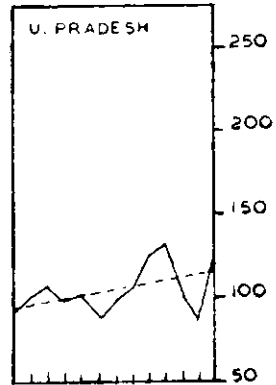
(Average : 1952-53 to 1954-55=100)

State	Percentage of Maize Production in the State to All-India (Triennium ending 1964-65)	Growth Rates of		
		Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1. Uttar Pradesh . . . .	19.4	0.97	1.40	(—)0.49
2. Bihar . . . . .	17.4	3.39	1.50	1.70
3. Rajasthan . . . . .	15.8	5.31	3.84	1.35
4. Punjab . . . . .	15.2	4.43	4.66	(—)0.15
5. Madhya Pradesh . . . .	11.8	4.01	1.75	1.94
6. Himachal Pradesh . . . .	3.8	7.38	0.74	6.18
<b>ALL-INDIA</b> . . . . .	100.0	3.08	2.48	0.51



GROWTH OF  
WHEAT PRODUCTION  
1952-53 TO 1964-65  
STATE WISE

ADJUSTED INDEX NUMBERS  
(1952-53 TO 1954-55 = 100)  
TREND LINE



1952-53 — 1964-65    1952-53 — 1964-65    1952-53 — 1964-65    1952-53 — 1964-65

The State with the highest proportion of all-India maize production, *viz.* Uttar Pradesh, accounting for about one-fifth of the total production, had the lowest rate of growth of production of 0·97 per cent per annum against the all-India growth rate of 3·08 per cent per annum. This was due mainly to a fall in the yield of the crop in the State. On the other hand, the relatively minor maize-producing State of Himachal Pradesh showed very high growth rates of production and productivity of maize of 7·38 per cent and 6·18 per cent per annum respectively. The other important maize producing States of Rajasthan, Punjab, Madhya Pradesh and Bihar, also had high growth rates of production of the crop. Besides Uttar Pradesh, Punjab was the only State which did not show any improvement in the productivity per hectare of maize during the period under review. With the propagation of hybrid maize in different States, the productivity of the crop is expected to go up rapidly in future and this will be of great help in achieving higher growth rates of overall production of the crop.

5·28. *Wheat.*—From the point of view of production, wheat occupies the second position among cereals. Linear growth rates of production, area and productivity of wheat during 1952-53 to 1964-65, for the important wheat producing States, are given in the table below—

TABLE 20

*Linear Growth Rates of Area, Production and Productivity of Wheat during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55=100)

State	Percentage of Wheat Production in the State to All-India (Triennium ending 1964-65)	Growth Rates of		
		Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1. Uttar Pradesh . . . . .	30·2	1·65	0·78	0·80
2. Punjab . . . . .	27·2	6·79	3·92	2·09
3. Madhya Pradesh . . . . .	18·5	3·61	4·50	(—)0·53
4. Rajasthan . . . . .	9·3	2·24	3·36	(—)0·85
5. Bihar . . . . .	4·1	2·35	0·98	1·18
6. Maharashtra . . . . .	3·7	4·17	2·10	1·85
7. Gujarat . . . . .	3·3	3·59	0·15	3·22
8. Himachal Pradesh . . . . .	1·0	3·51	1·41	1·93
9. Mysore . . . . .	0·9	4·88	0·98	3·46
ALL-INDIA . . . . .	100·0	3·80	2·57	1·00

The most important wheat-growing State, *viz.* Uttar Pradesh, accounting for about 30 per cent of all-India wheat production, showed a low growth rate of production of wheat of 1.65 per cent per annum, as compared to the all-India growth rate of 3.80 per cent per annum. This poor performance was due to set-backs in the production of wheat in the State during 1962-63 and 1963-64 as a result of adverse weather conditions such as absence of winter rains, spells of excessive cold, hails, frost etc. Punjab, which comes next to Uttar Pradesh from the point of view of wheat production, showed a very high rate of growth of production of 6.79 per cent per annum, the highest in the country. Though the rate of increase in yield in the State was almost double of that of all-India it was increase in area which contributed relatively more to the increase in wheat production in the State than the yield. The relatively minor wheat-producing States of Maharashtra and Mysore, also had high rates of growth of wheat production. Madhya Pradesh, which accounts for a little less than one-fifth of all-India production of wheat, had the highest rate of growth of area under the crop but a negative rate of growth of productivity per hectare, resulting in a growth rate of wheat production of 3.61 per cent per annum, slightly lower than all-India. Like Madhya Pradesh, Rajasthan too had a high rate of growth of area and a negative rate of growth of productivity. Gujarat had a very high rate of growth of productivity of wheat but a very low rate of growth of area. Bihar, on the other hand, had low rates of growth of both area and productivity.

5.29. *Barley*.—The following table gives linear growth rates of production area and productivity of barley for the important producing States during 1952-53 to 1964-65 :

TABLE 21

*Linear Growth Rates of Area, Production and Productivity of Barley during 1952-53 to 1964-65*

(Average: 1952-53 to 1954-55=100)

State	Percentage of Barley Production in the State to All-India (Triennium ending 1964-65)	Growth Rates of		
		Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1. Uttar Pradesh . . . .	55.8	(—)1.84	(—)1.91	0.03
2. Rajasthan . . . . .	20.7	(—)2.03	(—)1.58	(—)0.55
3. Bihar . . . . .	9.0	0.87	(—)0.41	1.30
4. Punjab . . . . .	6.3	(—)2.60	(—)2.68	0.13
ALL-INDIA . . . . .	100.0	(—)1.42	(—)1.36	(—)0.11

All the important barley-producing States had negative growth rates of area under barley. Even in a State like Rajasthan where there has been an all-round increase in area under crops, both foodgrains and non-foodgrains, there was a decline in the area under the crop during recent years due to diversion to other crops like wheat and gram. All the States except Bihar had very low or negative growth rates of productivity of barley.

5.30. *Gram*.—Among pulses, gram occupies the foremost position. Linear growth rates of production, area and productivity of gram during 1952-53 to 1964-65 for the important gram producing States, are given below :

TABLE 22

*Linear Growth Rates of Area, Production and Productivity of Gram during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55=100)

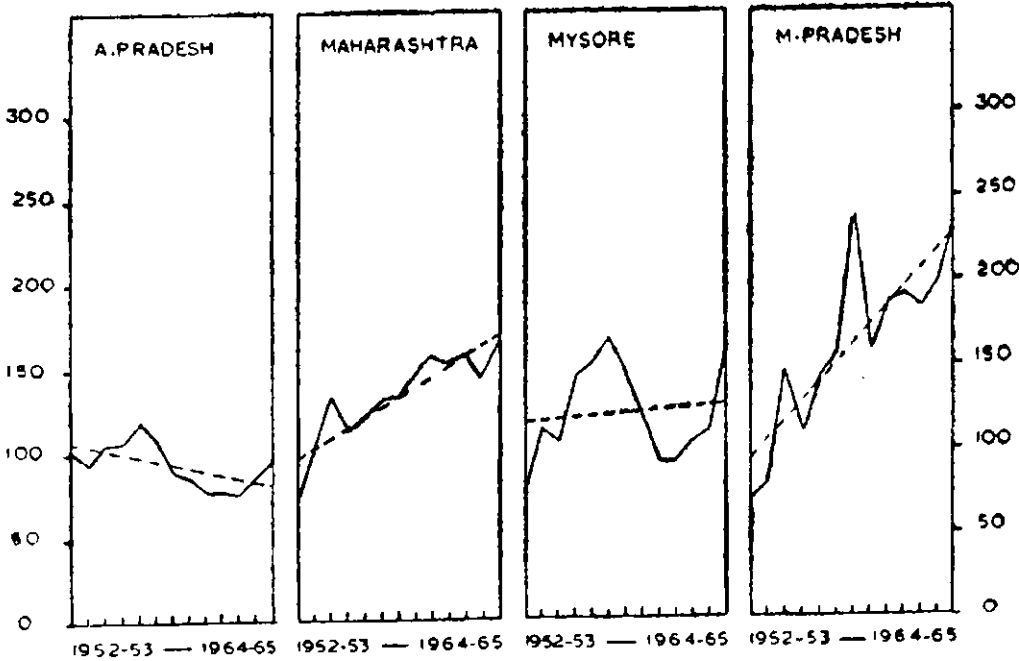
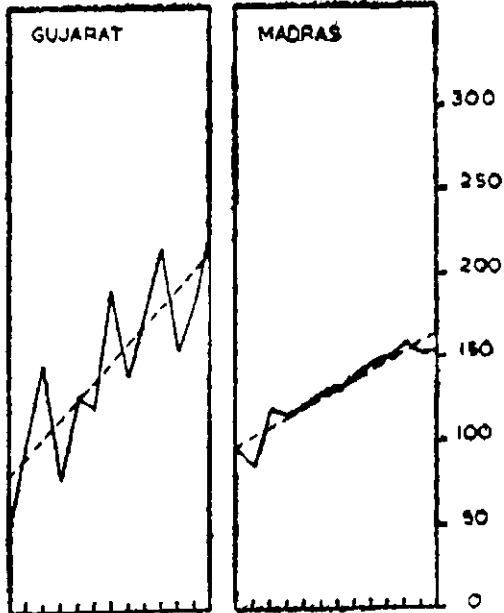
State	Percentage of Gram Production in the State to All-India (Triennium ending 1964-65)	Growth Rates of		
		Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1. Uttar Pradesh . . . . .	31.2	(—)0.04	(—)0.08	0.05]
2. Punjab . . . . .	27.4	1.35	2.01	(—)0.66
3. Madhya Pradesh . . . . .	16.4	1.91	0.91	0.95
4. Rajasthan . . . . .	12.9	5.19	6.12	(—)0.50
5. Bihar . . . . .	4.8	(—)0.29	(—)0.80	0.57
ALL-INDIA . . . . .	100.0	0.85	1.16	(—)0.24

Uttar Pradesh, accounting for nearly one-third of the total production of gram in the country, had a negative growth rate of production of gram during the period under review. This was due to the set-backs in the production of the crop during the first three years of the Third Plan on account of adverse weather conditions. Bihar too had a negative growth rate of production of gram. In spite of the set-backs in the production of crop during recent years due to unfavourable weather conditions, Rajasthan had a high rate of growth of production of gram due to a substantial increase in the area under the crop during the period under review. Punjab and Madhya Pradesh, important producing States, showed low rates of growth of gram production.

5.31. *Groundnut*.—Among oilseeds, groundnut occupies an important position and has, therefore, been selected for study of growth rates at the State level.

GROWTH OF  
GROUNDNUT PRODUCTION  
1952-53 TO 1964-65  
STATE WISE

ADJUSTED INDEX NUMBERS  
(1952-53 TO 1954-55=100) ✓  
TREND LINE - - - - -



1952-53 — 1964-65    1952-53 — 1964-65    1952-53 — 1964-65    1952-53 — 1964-65

The following table gives the linear growth rates of production, area and productivity of groundnut during the period under review, for the important producing States :

TABLE 23

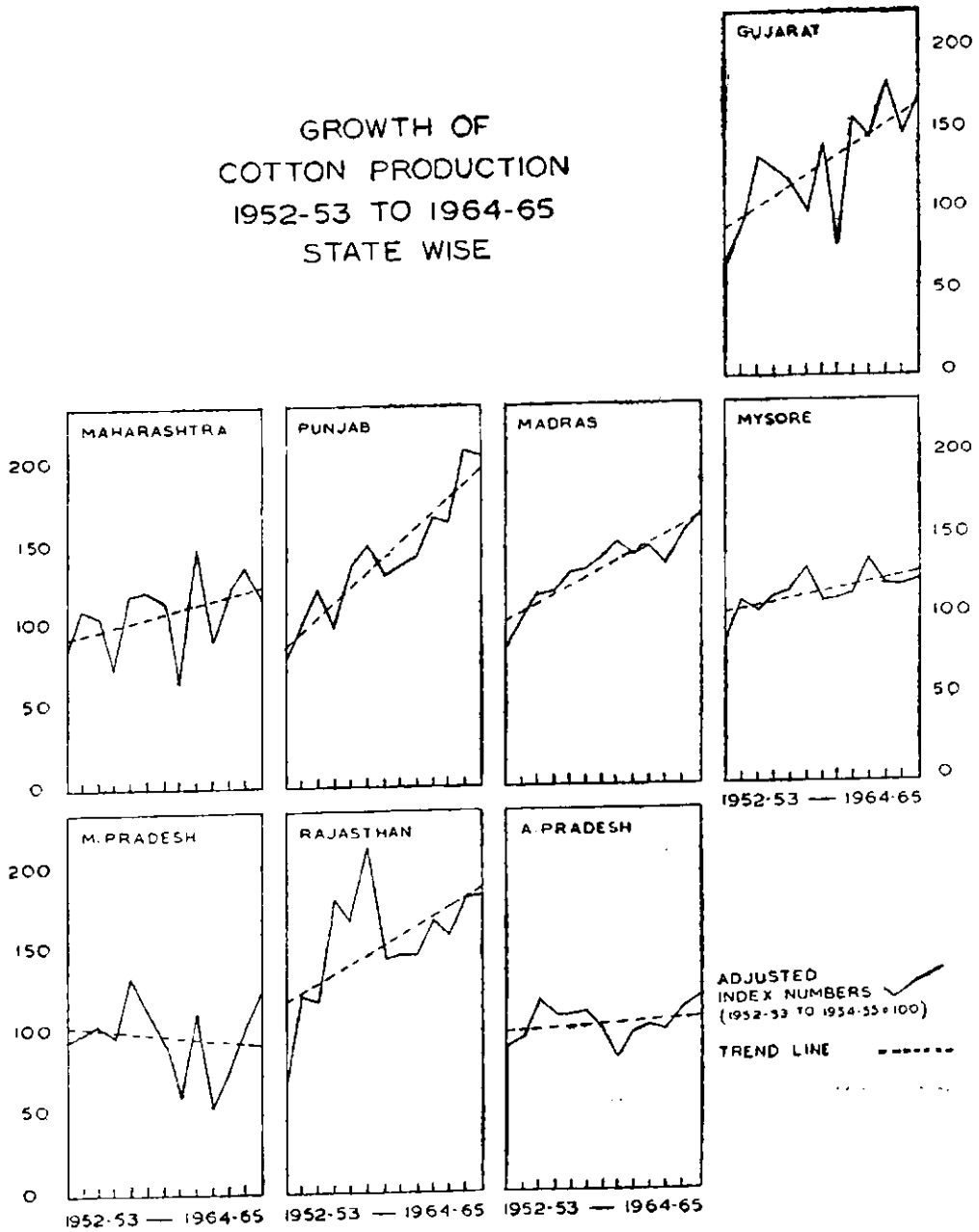
*Linear Growth Rates of Area, Production and Productivity of Groundnut during 1952-53 to 1964-65*

(Average : 1952-53 to 1964-65=100)

State	Percentage of Groundnut Production in the State to All-India (Triennium ending 1964-65)	Growth Rates of		
		Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1. Gujarat . . . . .	24.0	11.04	15.04	(—)1.11
2. Madras . . . . .	20.0	5.49	3.69	1.24
3. Andhra Pradesh . . . . .	14.3	(—)2.00	(—)3.16	1.58
4. Maharashtra . . . . .	14.1	6.06	1.28	4.18
5. Mysore . . . . .	10.9	0.72	0.87	(—)0.10
6. Madhya Pradesh . . . . .	5.4	11.12	8.15	1.84
ALL-INDIA . . . . .	100.0	5.64	4.40	0.84

Gujarat, which accounts for about a quarter of the country's groundnut production, had a very high growth rate of groundnut production of 11.04 per cent per annum. This was achieved due to a large expansion of the area under the crop at the linear rate of about 15 per cent per annum. Most of the additional area came from the dry crops of jowar and bajra as the increase in the overall area under crops was nominal. Growth rate of productivity of the crop in the State was, however, negative despite considerable improvement during the last two years of the period under review thereby showing that groundnut cultivation has been extended to marginal lands. Madhya Pradesh, accounting for about 5 per cent of the all-India production, had the highest growth rate of groundnut production of 11.12 per cent per annum as a result of increase in both area and yield of the crop during the period under review. Maharashtra and Madras, accounting for over one-third of the country's production, had high rates of growth of groundnut production. In the case of Maharashtra, improvement in yield contributed much more to the increase in production than area. On the other hand, in the case of Madras, area contributed more to the increase in production than productivity. Mysore, accounting for about 11 per cent of the total production, had a low growth rate of groundnut production due to a low rate of growth of area under the crop and a negative growth rate of its productivity. Andhra Pradesh had a negative growth rate of production of groundnut as a result of a heavy decline in the area under the crop during the period under review. A detailed study of the trends of area in different districts shows that the decline in acreage has mostly been in dry lands and is attributed to failure of sowing rains during 1957-58 to 1960-61 and the extreme difficulty felt at the time of harvest of the crop when there is not enough moisture to

GROWTH OF  
COTTON PRODUCTION  
1952-53 TO 1964-65  
STATE WISE



facilitate lifting of the pods and also due to uneven distribution of rainfall during the growing period of the crop, especially in Telengana and Rayalaseema areas. Steps were initiated during Third Plan to check the declining trend in the area under the crop. The surcharge on commercial crops, which was also to some extent responsible for the decline in the area under the crop, was abolished from July 1962. As a result of developmental measures undertaken during the Third Plan period, area under groundnut went up from 784 thousand hectares in 1961-62 to 947 thousand hectares during 1964-65.

5.32. *Cotton*.—Growth rates of production, area and productivity of cotton for the major cotton producing States, during the period under study, are given below:

TABLE 24

*Linear Growth Rates of Area, Production and Productivity of Cotton during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55=100)

State	Percentage of Cotton Production in the State to All-India (Triennium ending 1964-65)	Growth Rates of		
		Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1. Gujarat . . . . .	26.6	6.48	2.65	3.08
2. Maharashtra . . . . .	24.3	2.45	0.63	1.70
3. Punjab . . . . .	19.7	9.35	5.78	2.89
4. Madras . . . . .	7.6	5.56	1.11	3.87
5. Mysore . . . . .	7.2	2.06	0.66	1.23
6. Madhya Pradesh . . . . .	7.0	(—)0.98	(—)0.87	(—)0.17
7. Rajasthan . . . . .	3.2	5.85	2.70	2.74
8. Andhra Pradesh . . . . .	2.9	0.74	(—)0.43	1.29
ALL-INDIA . . . . .	100.0	3.81	1.27	2.25

It will be seen that Gujarat, which accounts for more than one-fourth of the all-India production of cotton, showed a high growth rate of cotton production of 6.48 per cent per annum. The growth rate of area under the crop in the State was 2.65 per cent per annum. Viewed against the low growth rate of area under all crops of 0.46 per cent per annum and negative growth rates of area under dry crops like jowar and bajra in the State, it indicates diversion of area from dry millets to cotton. During recent years, the State has shown considerable improvement in yield of cotton with the result that it had a high rate of growth of productivity of 3.08 per cent per annum. Maharashtra, an equally important cotton-growing State, had a low rate of growth of cotton production due mainly to a low rate of growth of its area. Punjab, which accounts for about one-fifth of the all-India production of cotton, had the highest growth rate of cotton production of 9.35 per cent per annum. Most of the increase in the production of cotton in the State was due to expansion of area under the crop though improvement in yield was by no means small, its growth rate of 2.89 per cent per annum being higher than all-India. Madras and Rajasthan, relatively



minor cotton-producing States, had high rates of growth of cotton production. While in the case of Madras, the increase in production was mostly due to improvement in yield, in the case of Rajasthan, area and productivity contributed almost equally to the increase in cotton production in the State. Mysore had a low rate of growth of cotton production due to low growth rates of both area and productivity. Madhya Pradesh and Andhra Pradesh, accounting for about 10 per cent of all-India production, fared rather badly. Madhya Pradesh had a negative growth rate of cotton production due to a decline in both area and yield of the crop. In the case of Andhra Pradesh, the low growth rate of cotton production was due mainly to the decrease in the area under the crop.

5.33. *Jute*.—The other important fibre crop grown in the country is jute. Its cultivation is concentrated in a few States. The following table gives the growth rates of production, area and productivity of jute for important producing States:

TABLE 25

*Linear Growth Rates of Area, Production and Productivity of Jute during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55=100)

State	Percentage of Jute Production in the State to All-India (Triennium ending 1964-65)	Growth Rates of		
		Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1. West Bengal . . . . .	56.9	7.21	6.00	0.92
2. Bihar . . . . .	17.7	(-)-1.83	2.29	(-)-2.82
3. Assam . . . . .	14.7	0.10	1.20	(-)-1.00
4. Orissa . . . . .	6.8	4.05	3.50	0.50
5. Uttar Pradesh . . . . .	2.7	12.13	6.18	3.29
All-India . . . . .	100.0	5.20	4.01	0.85

Thus, West Bengal, the premier jute-growing State, showed a very high rate of growth of production of the crop. Almost the entire increase in production was due to increase in the area under the crop. Uttar Pradesh, with the lowest share of all-India production, had the highest growth rate of jute production in the country. Here again the contribution of area was much more than that of productivity. Bihar, accounting for about 18 per cent of the all-India production of jute, had a negative growth rate of jute production due to decline in the yield of the crop during the period under review. Assam, another important jute-growing State, had a poor rate of growth of jute production due to decline in its yield during recent years. Orissa, with its poor rate of growth of productivity of jute, had a good rate of growth of area under the crop. The negative or low growth rate of productivity of jute in different States is explained by the fact that jute crop is relatively more labour and capital intensive as compared to its competing crops and requires a higher degree of

technological knowledge. Thus, any large-scale increase in the area under the crop, without special measures for intensification in the new area, is likely to depress its yield.

5.34. *Sugarcane*.—Linear growth rates of production, area and productivity of sugarcane during 1952-53 to 1964-65 for the important producing States are given in the following table :

TABLE 26

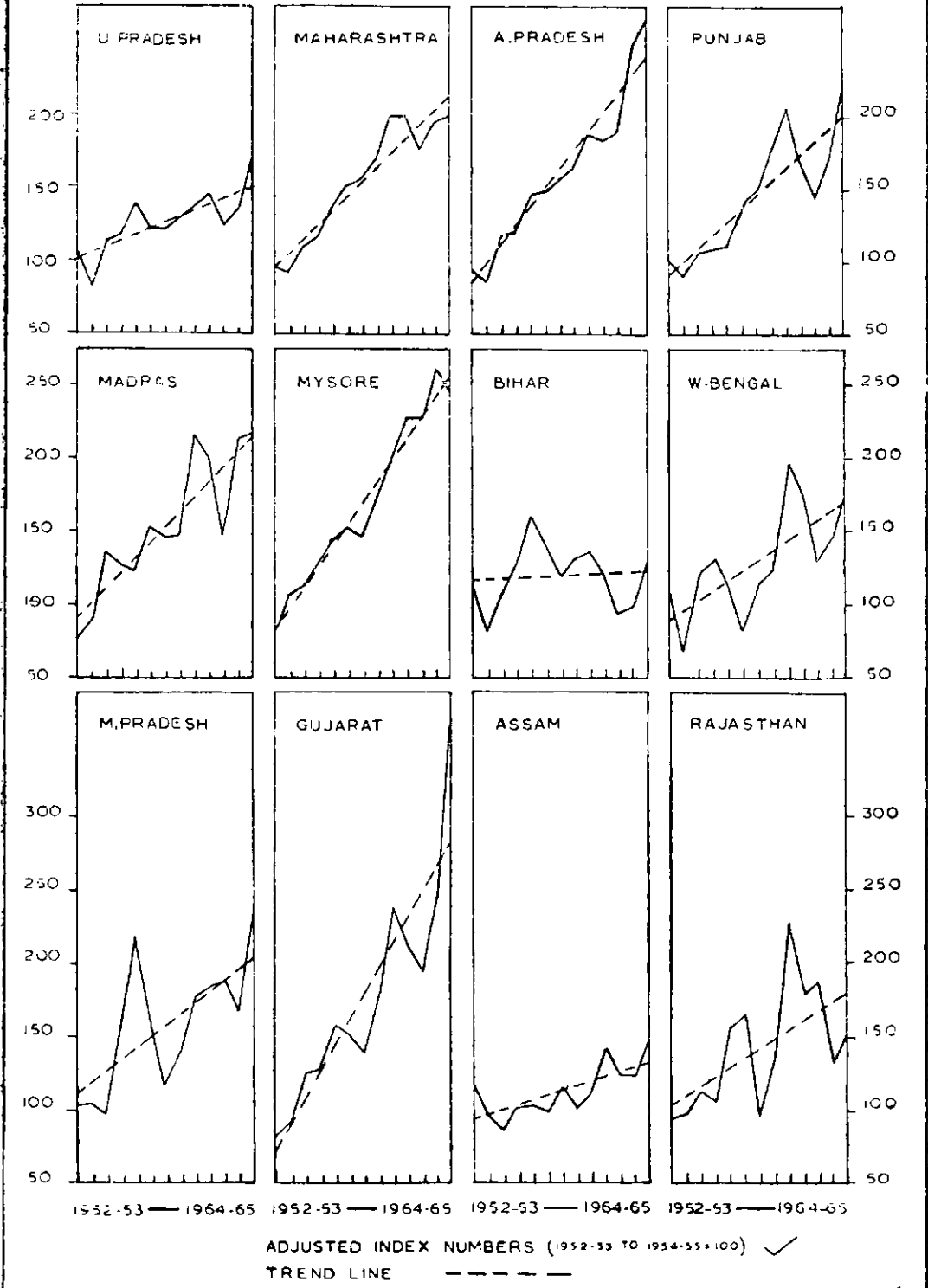
*Linear Growth Rates of Area, Production and Productivity of Sugarcane during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55=100)

State	Percentage of Sugarcane Production in the State to All-India (Triennium ending 1964-65)	Growth Rates of		
		Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1. Uttar Pradesh . . . . .	46.0	4.13	3.72	0.28
2. Maharashtra . . . . .	10.4	9.83	7.97	1.02
3. Andhra Pradesh . . . . .	9.5	13.21	8.56	2.52
4. Punjab . . . . .	8.9	9.28	5.71	2.26
5. Madras . . . . .	6.1	10.50	10.56	0.04
6. Mysore . . . . .	5.7	14.58	7.60	4.02
7. Bihar . . . . .	5.2	0.65	2.20	(—)1.21
8. West Bengal . . . . .	1.5	6.73	7.32	(—)0.31
9. Madhya Pradesh . . . . .	1.4	7.96	9.91	(—)1.03
10. Gujarat . . . . .	1.4	17.86	16.83	0.53
11. Assam . . . . .	0.9	3.18	1.23	1.76
12. Rajasthan . . . . .	0.6	6.34	7.76	(—)0.53
All-India . . . . .	100.0	7.83	4.93	1.93

Against the all-India growth rate of sugarcane production of 7.83 per cent per annum, the States of Maharashtra, Andhra Pradesh, Punjab, Madras Mysore, Madhya Pradesh and Gujarat had very high growth rates ranging from 7.96 per cent to 17.86 per cent for annum. All the States had very high growth rates of area under the crop. Except for Mysore, Andhra Pradesh and Punjab, the growth rate of productivity of sugarcane was very low in these States, it was negative in the case of Madhya Pradesh. The States of West Bengal and Rajasthan also showed quite good rates of growth of sugarcane production despite negative growth rates of its productivity. Uttar Pradesh, the premier sugarcane producing State, showed a relatively lower rate of growth of production of sugarcane of 4.13 per cent per annum due mainly to a very low rate of increase in its yield. The range of growth rates of production of sugarcane was pretty wide, varying from 0.65 per cent per annum in Bihar to 17.86 per cent per annum in Gujarat.

GROWTH OF SUGARCANE  
 PRODUCTION 1952-53 TO 1964-65  
 STATEWISE



5.35. *Tobacco*.—Growth rates of production, area and productivity of tobacco during 1952-53 to 1964-65 in different States are given in the table below :

TABLE 27  
*Linear Growth Rates of Area, Production and Productivity of Tobacco during  
1952-53 to 1964-65*  
(Average : 1952-53 to 1954-55=100)

State	Percentage of Tobacco Production in the State to All-India (Triennium ending 1964-65)	Growth Rates of		
		Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1. Andhra Pradesh . . .	45.8	3.43	2.51	0.62
2. Gujarat . . .	22.4	8.67	3.32	4.11
3. Madras . . .	7.3	0.54	(—)0.01	0.52
4. Mysore . . .	6.1	2.43	(—)1.25	4.04
5. West Bengal . . .	3.2	0.36	(—)0.50	0.89
6. Uttar Pradesh . . .	3.1	(—)2.29	(—)2.34	0.12
7. Maharashtra . . .	2.9	(—)2.43	(—)3.30	1.21
8. Assam . . .	2.1	0.74	1.31	(—)0.50
All-India . . .	100.0	3.41	1.58	1.56

Andhra Pradesh, accounting for a little less than half of the country's tobacco production, had a growth rate of tobacco production of 3.43 per cent per annum. This was only marginally higher than the all-India growth rate of tobacco production of 3.41 per cent per annum. An examination of the index numbers of area, production and productivity of tobacco in Andhra Pradesh shows that during the Second Plan period there was practically no progress whatsoever. It was only during the Third Plan that area and production of the crop showed some improvement. Gujarat, another important tobacco producing State, accounting for over one-fifth of the all-India production, had a very high rate of growth of production of tobacco with pretty high growth rates of both area and productivity. Madras and West Bengal had low rates of growth of tobacco production due to decline in the area under the crop. Mysore had a moderate rate of growth of production, which was due entirely to a high rate of growth of productivity, growth rate of area under the crop being negative. Uttar Pradesh and Maharashtra had negative growth rates of tobacco production due to sharp decline in the acreage under the crop.

## CHAPTER VI

### RELIABILITY OF GROWTH RATES

6.1. In order to assess the reliability of the growth rates discussed in Chapters III to V, standard errors of the growth rates have also been computed. These are given in Appendices 6.1 to 6.46.

6.2. Standard errors of the All-India linear and compound growth rates of agricultural production during 1949-50 to 1964-65 are given in the following table :

TABLE 28

*Standard Errors of All-India Linear and Compound Growth Rates of Agricultural Production during 1949-50 to 1964-65*

Group of Crops	Linear Growth Rate (Average 1949-50 to 1951-52=100) (Per cent)	Standard Error of Linear Growth Rate	Compound Growth Rate (Per cent)	Standard Error of Compound Growth Rate
(i) Foodgrains . . .	3.66	0.41	2.98	0.60
(ii) Non-foodgrains . . .	4.39	0.30	3.61	0.48
(iii) All Crops . . .	3.92	0.29	3.19	0.49

6.3. Standard errors of the all-India linear and compound growth rates of agricultural production during 1952-53 to 1964-65 are given below :

TABLE 29

*Standard Errors of All-India Linear and Compound Growth Rates of Agricultural Production during 1952-53 to 1964-65*

Group of Crops	Linear Growth Rate (Average 1952-53 to 1954-55=100) (Per cent)	Standard Error of Linear Growth Rate	Compound Growth Rate (Per cent)	Standard Error of Compound Growth Rate
(i) Foodgrains . . .	2.75	0.44	2.50	0.65
(ii) Non-Foodgrains . . .	4.79	0.36	3.99	0.56
(iii) All Crops . . .	3.42	0.36	3.01	0.57

Thus, for all crops, the standard errors of both linear and compound growth rates of all-India production are pretty low. Even for the two main groups of crops, viz. foodgrains and non-foodgrains, the standard errors are not very high.

6.4. Standard errors of all-India linear growth rates of area under crops and agricultural productivity during the period 1949-50 to 1964-65, are given in the following table alongwith the growth rates :

TABLE 30

*Standard Errors of All-India Linear Growth Rates of Area under Crops and Agricultural Productivity during 1949-50 to 1964-65*

Group of Crops	Linear Growth Rate (Average 1949-50 to 1951-52=100)		Standard Error	
	Area (Per cent)	Productivity (Per cent)	Area	Productivity
(i) Foodgrains . . .	1.48	1.80	0.16	0.28
(ii) Non-Foodgrains . . .	2.90	1.11	0.19	0.27
(iii) All-Crops . . .	1.72	1.78	0.13	0.22

Standard errors of all-India compound growth rates of area under crops and agricultural productivity during the same period, are given below :

TABLE 31

*Standard Errors of All-India Compound Growth Rates of Area under Crops and Agricultural Productivity during 1949-50 to 1964-65*

Group of Crops	Compound Growth Rate		Standard Error	
	Area (Per cent)	Productivity (Per cent)	Area	Productivity
(i) Foodgrains . . .	1.34	1.61	0.39	0.50
(ii) Non-Foodgrains . . .	2.52	1.06	0.45	0.51
(iii) AllCrops . . .	1.55	1.60	0.36	0.44

6.5. Standard errors of all-India linear growth rates of area under crops and agricultural productivity during the period 1952-53 to 1964-65, are given in the following table alongwith the growth rates for foodgrains, non-foodgrains and all crops :

TABLE 32

*Standard Errors of All-India Linear Growth Rates of Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

Group of Crops	Linear Growth Rate (Average 1952-53 to 1954-55=100)		Standard Error	
	Area (Per cent)	Productivity (Per cent)	Area	Productivity
(i) Foodgrains . . .	1.02	1.60	0.14	0.35
(ii) Non-foodgrains . . .	2.56	1.79	0.19	0.29
(iii) AllCrops . . .	1.28	1.91	0.13	0.29

Standard errors of all-India compound growth rates of area under crops and agricultural productivity during the same period are given below :

TABLE 33

*Standard Errors of All-India Compound Growth Rates of Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

Group of Crops	Compound Growth Rate		Standard Error	
	Area (Per cent)	Productivity (Per cent)	Area	Productivity
(i) Foodgrains . . .	0.98	1.51	0.37	0.58
(ii) Non-foodgrains . . .	2.30	1.66	0.44	0.51
(iii) All Crops . . .	1.21	1.77	0.36	0.52

6.6. The following table gives the standard errors of State linear rates of growth of agricultural production, area under crops and agricultural productivity during the period 1952-53 to 1964-65, alongwith the growth rates :

TABLE 34

*Standard Errors of State Linear Growth Rates of Agricultural Production, Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

State	Agricultural Production		Area under Crops		Agricultural Productivity	
	Linear Growth Rate* (Per cent)	Standard Error	Linear Growth Rate* (Per cent)	Standard Error	Linear Growth Rate* (Per cent)	Standard Error
1. Punjab . . . . .	5.56	0.46	2.06	0.43	2.86	0.49
2. Gujarat . . . . .	5.12	1.19	0.46	0.22	4.52	1.13
3. Madras . . . . .	4.91	0.47	1.13	0.22	3.46	0.38
4. Mysore . . . . .	4.06	3.46	0.83	0.26	3.03	0.38
5. Himachal Pradesh	3.93	0.55	0.73	0.10	3.30	0.50
6. Bihar . . . . .	3.21	1.06	0.71	0.34	2.39	0.78
7. Maharashtra . . . . .	3.19	0.69	0.44	0.11	2.69	0.63
8. Rajasthan . . . . .	3.08	0.83	3.23	0.47	(—)0.08	0.54
9. Andhra Pradesh . . . . .	3.06	0.30	0.27	0.16	2.72	0.25
10. Madhya Pradesh . . . . .	2.79	0.72	1.35	0.15	1.30	0.58
11. Orissa . . . . .	2.72	0.73	0.84	0.25	1.78	0.68
12. Kerala . . . . .	2.52	0.14	1.38	0.08	1.00	0.11
13. West Bengal . . . . .	2.07	0.69	0.60	0.20	1.41	0.50
14. Uttar Pradesh . . . . .	1.82	0.57	0.74	0.10	1.01	0.52
15. Assam . . . . .	1.25	0.26	1.32	0.13	(—)0.07	0.28

\* Average of 1952-53 to 1954-55=100.

Standard errors of State compound growth rates of agricultural production, area under crops and agricultural productivity during the same period are given in the table below :

TABLE 35

*Standard Errors of State Compound Growth Rates of Agricultural Production, Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

State	Agricultural Production		Area under Crops		Agricultural Productivity	
	Compound Growth Rate (Per cent)	Standard Error	Compound Growth Rate (Per cent)	Standard Error	Compound Growth Rate (Per cent)	Standard Error
1. Punjab . . . . .	4.56	0.61	1.90	0.65	2.61	0.68
2. Gujarat . . . . .	4.55	1.07	0.45	0.46	4.09	1.05
3. Madras . . . . .	4.17	0.73	1.10	0.47	3.04	0.63
4. Mysore . . . . .	3.54	0.71	0.81	0.50	2.71	0.61
5. Himachal Pradesh . . . . .	3.39	0.70	0.71	0.32	2.67	0.67
6. Bihar . . . . .	2.97	1.06	0.71	0.59	2.25	0.90
7. Maharashtra . . . . .	2.93	0.81	0.44	0.34	2.45	0.77
8. Rajasthan . . . . .	2.74	0.87	2.85	0.67	(—)0.11	0.75
9. Andhra Pradesh . . . . .	2.71	0.52	0.26	0.40	2.45	0.48
10. Madhya Pradesh . . . . .	2.49	0.81	1.28	0.38	1.21	0.74
11. Orissa . . . . .	2.48	0.86	0.81	0.49	1.66	0.84
12. Kerala . . . . .	2.27	0.38	1.30	0.28	0.96	0.33
13. West Bengal . . . . .	1.94	0.82	0.59	0.44	1.34	0.70
14. Uttar Pradesh . . . . .	1.66	0.73	0.72	0.31	0.94	0.71
15. Assam . . . . .	1.17	0.49	1.25	0.35	(—)0.08	0.53

It will be seen that as in the case of all-India, the standard errors of the State growth rates of production, area and productivity for all-crops are pretty low except in a few cases where these are quite high. An idea of the reliability of State growth rates of production, area and productivity for main groups and selected crops can be had from the standard errors given in Appendices 6.35 to 6.46.

6.7. *Goodness of Fit.*—It will be seen from Tables 27—34 that in some cases, the estimates of standard errors of the growth rates are rather high thereby indicating that the linear or exponential function may not be good fit to the data. To give an idea of the suitability of these functions for describing the underlying secular trend, the two types of trends have been tested



for goodness of fit by using the technique of analysis of variance. The following table gives the results of the test for All-India linear and exponential trends for production, area and productivity of selected crops for the period 1949-50 to 1964-65 :

TABLE 36

*Significance of Linear and Exponential Trends for All-India Agricultural Production, Area under Crops and Agricultural Productivity during 1949-50 to 1964-65*

Crop/ Group of Crops	Agricultural Production		Area under Crops		Agricultural Productivity	
	Linear	Exponen- tial	Linear	Exponen- tial	Linear	Exponen- tial
Rice . . . . .	SS	SS	SS	SS	SS	SS
Jowar . . . . .	SS	SS	SS	NS	SS	S
Bajra . . . . .	SS	S	S	NS	NS	NS
Wheat . . . . .	SS	SS	SS	SS	SS	NS
Gram . . . . .	S	S	SS	SS	NS	NS
FOODGRAINS . . . . .	SS	SS	SS	SS	SS	SS
Groundnut . . . . .	SS	SS	SS	SS	NS	NS
OILSEEDS . . . . .	SS	SS	SS	SS	NS	NS
Cotton . . . . .	SS	SS	SS	SS	SS	S
Jute . . . . .	SS	SS	SS	SS	NS	NS
FIBRE . . . . .	SS	SS	SS	SS	SS	SS
Tea . . . . .	SS	SS	SS	S	SS	SS
Coffee . . . . .	SS	SS	SS	SS	SS	SS
Sugarcane . . . . .	SS	SS	SS	SS	SS	S
Tobacco . . . . .	SS	SS	SS	S	S	NS
NON-FOODGRAINS . . . . .	SS	SS	SS	SS	SS	NS
ALL-CROPS . . . . .	SS	SS	SS	SS	SS	SS

SS—Highly Significant    S—Significant    NS—Not Significant.

In the case of crops or groups of crops, where both linear and exponential trends were not good fits, second degree curve was fitted and tested for goodness of fit. The results of the test are given in Appendix 6.47.

6.8. Similar testing of goodness of fit has been done for all-India linear and exponential trends for production, area and productivity of selected crops for the period 1952-53 to 1964-65. The results of the test are given in the table below :

TABLE 37

*Significance of Linear and Exponential Trends for All-India Agricultural Production, Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

Crop/ Group of Crops	Agricultural Production		Area under Crop		Agricultural Productivity	
	Linear	Exponen- tial	Linear	Exponen- tial	Linear	Exponen- tial
Rice . . . . .	SS	SS	SS	SS	SS	S
Jowar . . . . .	S	S	NS	NS	S	NS
Bajra . . . . .	NS	NS	NS	NS	S	NS
Wheat . . . . .	SS	SS	SS	SS	NS	NS
Gram . . . . .	NS	NS	NS	NS	NS	NS
FOODGRAINS . . . . .	SS	SS	SS	S	NS	S
Groundnut . . . . .	SS	SS	SS	SS	NS	NS
OILSEEDS . . . . .	SS	SS	SS	NS	NS	NS
Cotton . . . . .	SS	SS	S	NS	S	S
Jute . . . . .	SS	SS	SS	SS	NS	NS
FIBRES . . . . .	SS	SS	NS	S	SS	SS
Tea . . . . .	SS	SS	NS	S	NS	S
Coffee . . . . .	SS	SS	SS	SS	SS	SS
Sugarcane . . . . .	SS	SS	SS	SS	SS	S
Tobacco . . . . .	SS	SS	SS	S	SS	S
NON-FOODGRAINS . . . . .	SS	SS	NS	NS	NS	NS
ALL-CROPS . . . . .	SS	SS	SS	SS	SS	SS

SS—Highly Significant    S—Significant    NS—Not Significant.

As in the case of the period 1949-50 to 1964-65, second degree curve was fitted for crops/groups of crops for which both linear and exponential trends were not good fits. The second degree trend was also tested and the results of the test are given in Appendix 6.48.

6.9. Similar testing of the linear and exponential trends has been done at the State level for the period 1952-53 to 1964-65. The following table gives the results of the test for agricultural production, area under crops and agricultural productivity for all-crops taken together :

TABLE 38

*Significance of Linear and Exponential Trends for Agricultural Production, Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

## ALL-CROPS

State	Agricultural Production		Area under Crops		Agricultural Productivity	
	Linear	Exponential	Linear	Exponential	Linear	Exponential
1. Punjab . . .	SS	SS	SS	S	SS	SS
2. Gujarat . . .	SS	SS	NS	NS	SS	SS
3. Madras . . .	SS	SS	SS	S	SS	SS
4. Mysore . . .	SS	SS	SS	NS	SS	SS
5. Himachal Pradesh .	SS	SS	SS	S	SS	SS
6. Bihar . . .	S	S	NS	NS	S	S
7. Maharashtra . .	SS	SS	SS	NS	SS	SS
8. Rajasthan . . .	SS	SS	SS	SS	NS	NS
9. Andhra Pradesh .	SS	SS	NS	NS	SS	SS
10. Madhya Pradesh .	SS	S	SS	SS	S	NS
11. Orissa . . .	SS	S	SS	NS	S	NS
12. Kerala . . .	SS	SS	SS	SS	SS	S
13. West Bengal . .	S	S	S	NS	S	NS
14. Uttar Pradesh .	SS	S	SS	S	NS	NS
15. Assam . . .	SS	S	SS	SS	NS	NS

SS—Highly Significant    S—Significant    NS—Not Significant

Thus, both linear and exponential trends are not good fits for area under crops in the case of Gujarat, Bihar and Andhra Pradesh, and for agricultural productivity in the case of Rajasthan, Uttar Pradesh and Assam. In these cases, second degree curve was fitted and tested for goodness of fit. The results of the test may be seen in Table 41.

6-10. Significance of linear and exponential trends for production, area and productivity for foodgrains at the State level is given in the table below :—

TABLE 39

*Significance of Linear and Exponential Trends for Agricultural Production, Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

## FOODGRAINS

State	Agricultural Production		Area under Crops		Agricultural Productivity	
	Linear	Exponential	Linear	Exponential	Linear	Exponential
1. Punjab . . . . .	SS	SS	SS	S	SS	S
2. Gujarat . . . . .	NS	NS	SS	S	SS	SS
3. Madras . . . . .	SS	SS	S	NS	SS	SS
4. Mysore . . . . .	SS	SS	SS	NS	SS	SS
5. Himachal Pradesh . . . . .	SS	SS	SS	NS	SS	SS
6. Bihar . . . . .	S	S	NS	NS	S	S
7. Maharashtra . . . . .	SS	S	SS	NS	SS	S
8. Rajasthan . . . . .	SS	S	SS	SS	NS	NS
9. Andhra Pradesh . . . . .	SS	SS	SS	NS	SS	SS
10. Madhya Pradesh . . . . .	SS	S	SS	SS	NS	NS
11. Orissa . . . . .	SS	S	S	NS	S	NS
12. Kerala . . . . .	SS	SS	SS	NS	SS	SS
13. West Bengal . . . . .	NS	NS	NS	NS	NS	NS
14. Uttar Pradesh . . . . .	NS	NS	SS	NS	NS	NS
15. Assam . . . . .	S	NS	SS	SS	NS	NS

SS—Highly Significant. S—Significant. NS—Not Significant.

6-11. Significance of linear and exponential trends for production, area and productivity for non-foodgrains at the State level is indicated in the following table :

TABLE 40

*Significance of Linear and Exponential Trends for Agricultural Production, Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

## NON-FOODGRAINS

State	Agricultural Production		Area under Crops		Agricultural Productivity	
	Linear	Exponential	Linear	Exponential	Linear	Exponential
1. Punjab . . . . .	SS	SS	SS	SS	SS	SS
2. Gujarat . . . . .	S	SS	SS	SS	NS	NS
3. Madras . . . . .	SS	SS	SS	SS	SS	SS
4. Mysore . . . . .	SS	SS	NS	NS	SS	SS
5. Himachal Pradesh . . . . .	SS	S	SS	SS	S	NS
6. Bihar . . . . .	S	S	S	NS	NS	NS
7. Maharashtra . . . . .	SS	SS	SS	NS	SS	SS
8. Rajasthan . . . . .	SS	SS	SS	SS	NS	NS
9. Andhra Pradesh . . . . .	S	NS	S	NS	SS	SS
10. Madhya Pradesh . . . . .	SS	SS	SS	S	S	S

TABLE 40—*contd.*

State	Agricultural Production		Area under Crops		Agricultural Productivity	
	Linear	Exponential	Linear	Exponential	Linear	Exponential
11. Orissa . . . . .	SS	S	NS	NS	SS	S
12. Kerala . . . . .	SS	SS	SS	SS	NS	NS
13. West Bengal . . . . .	SS	SS	SS	SS	NS	NS
14. Uttar Pradesh . . . . .	SS	SS	SS	SS	S	NS
15. Assam . . . . .	SS	S	SS	S	NS	NS

SS—Highly Significant. S—Significant. NS—Not Significant.

6.12. In cases where both linear and exponential trends are not good fits, second degree curve has been fitted and tested. The following table gives the significance of the second degree trend in the relevant cases :

TABLE 41

*Significance of Second Degree Trend for Agricultural Production, Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

State	Group of Crops	Production/Area/ Productivity	Significance of Second Degree Trend
1. Gujarat . . . . .	All-Crops	Area	S
	Foodgrains	Production	NS
	Non-foodgrains	Productivity	NS
2. Mysore . . . . .	Non-foodgrains	Area	SS
3. Bihar . . . . .	All-Crops	Area	NS
	Foodgrains	Area	NS
	Non-foodgrains	Productivity	NS
4. Rajasthan . . . . .	All-Crops	Productivity	NS
	Foodgrains	Productivity	NS
	Non-foodgrains	Productivity	NS
5. Andhra Pradesh . . . . .	All-Crops	Area	NS
6. Madhya Pradesh . . . . .	Foodgrains	Productivity	NS
7. Orissa . . . . .	Non-foodgrains	Area	SS
8. Kerala . . . . .	Non-foodgrains	Productivity	NS
9. West Bengal . . . . .	Foodgrains	Area	S
	Foodgrains	Production	NS
	Foodgrains	Productivity	NS
	Non-foodgrains	Productivity	S
10. Uttar Pradesh . . . . .	All-Crops	Productivity	NS
	Foodgrains	Production	NS
	Foodgrains	Productivity	NS
11. Assam . . . . .	All-Crops	Productivity	NS
	Foodgrains	Productivity	NS
	Non-foodgrains	Productivity	NS

SS—Highly Significant. S—Significant. NS—Not Significant.

Thus, even the second degree curve is not a good fit in a large number of cases where both linear and exponential trends are not good fits. Similar testing has been done for important crops in different States. The results are given in Appendices 6.49 to 6.63.

## APPENDIX 1.1

### *Index Numbers of Area under Crops in India*

(Base: Agricultural Year 1949-50=100)

Commodity/ Group	1950 51	1951- 52	1952- 53	1953- 54	1954- 55	1955- 56	1956- 57	1957- 58	1958- 59	1959- 60	1960- 61	1961- 62	1962- 63	1963- 64	1964- 65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>I. FOODGRAINS—</b>															
Rice . . . . .	100.9	97.7	98.2	102.5	100.6	103.1	105.4	105.5	108.3	110.4	111.4	113.5	114.3	116.1	117.6
Jowar . . . . .	100.2	102.6	112.9	114.3	112.4	111.6	104.3	111.2	115.4	113.8	118.3	117.2	115.7	115.3	115.7
Bajra . . . . .	97.4	102.8	116.3	131.8	122.8	122.4	121.4	120.5	123.3	115.4	123.8	121.6	116.5	116.3	126.3
Maize . . . . .	96.4	101.0	110.0	118.0	114.3	112.7	114.6	124.4	130.1	132.5	134.4	137.4	140.5	139.8	140.0
Ragi . . . . .	92.4	91.8	94.0	97.9	96.4	93.2	94.3	100.0	105.1	104.2	104.1	103.9	95.8	99.2	100.4
Small Millets . . . . .	96.6	99.9	105.8	119.0	118.0	111.6	104.1	101.9	107.5	107.3	103.3	101.5	97.8	95.4	94.9
<b>KHARIF CEREALS . . . . .</b>	<b>99.4</b>	<b>99.7</b>	<b>105.2</b>	<b>111.2</b>	<b>108.3</b>	<b>108.5</b>	<b>107.3</b>	<b>109.4</b>	<b>112.9</b>	<b>112.5</b>	<b>115.0</b>	<b>115.4</b>	<b>114.3</b>	<b>114.9</b>	<b>117.1</b>
Wheat . . . . .	99.9	97.1	100.7	109.5	115.4	126.7	138.6	120.2	129.3	137.1	132.5	139.1	140.0	138.3	137.9
Barley . . . . .	97.9	99.4	102.1	111.0	107.4	107.5	110.6	96.5	104.1	106.3	100.9	106.2	96.9	89.0	85.6
<b>RABI CEREALS . . . . .</b>	<b>99.4</b>	<b>97.6</b>	<b>101.0</b>	<b>109.8</b>	<b>113.4</b>	<b>122.0</b>	<b>131.8</b>	<b>114.5</b>	<b>123.2</b>	<b>129.6</b>	<b>124.6</b>	<b>131.1</b>	<b>129.5</b>	<b>126.3</b>	<b>125.1</b>
<b>CEREALS . . . . .</b>	<b>99.4</b>	<b>99.3</b>	<b>104.5</b>	<b>111.0</b>	<b>109.1</b>	<b>110.7</b>	<b>111.4</b>	<b>110.3</b>	<b>114.7</b>	<b>115.4</b>	<b>116.7</b>	<b>118.1</b>	<b>116.9</b>	<b>116.9</b>	<b>118.5</b>
Gram . . . . .	91.2	82.3	87.4	96.0	111.5	118.0	116.7	109.7	121.6	124.6	111.9	115.4	110.7	113.1	108.7
Tur . . . . .	93.5	104.9	102.9	103.1	103.1	98.0	98.3	101.2	106.0	104.2	104.3	104.8	103.6	104.5	105.9
Other Pulses . . . . .	92.2	98.4	105.6	117.7	106.2	115.3	117.4	114.7	121.7	125.0	122.2	126.1	127.4	126.1	128.8
<b>PULSES . . . . .</b>	<b>91.9</b>	<b>92.6</b>	<b>97.9</b>	<b>107.1</b>	<b>110.3</b>	<b>116.8</b>	<b>117.3</b>	<b>113.4</b>	<b>122.3</b>	<b>124.9</b>	<b>118.3</b>	<b>121.7</b>	<b>120.3</b>	<b>120.8</b>	<b>120.5</b>
<b>FOODGRAINS . . . . .</b>	<b>97.9</b>	<b>98.0</b>	<b>103.2</b>	<b>110.2</b>	<b>109.3</b>	<b>111.9</b>	<b>112.5</b>	<b>110.8</b>	<b>116.1</b>	<b>117.2</b>	<b>116.9</b>	<b>118.7</b>	<b>117.5</b>	<b>117.6</b>	<b>118.8</b>
<b>II. NON-FOODGRAINS</b>															
Groundnut . . . . .	113.0	123.6	120.5	106.8	139.4	129.1	139.2	161.5	157.3	162.1	162.6	173.3	172.7	171.2	177.8
Sesamum . . . . .	107.7	117.5	116.2	125.6	127.5	111.3	105.4	101.6	109.2	103.7	105.3	109.3	120.2	115.7	120.9

Rapeseed	Mus-															
tafd	.	107.0	123.4	108.1	115.2	125.2	131.2	130.3	123.7	125.5	149.2	147.8	162.4	159.3	154.9	144.2
Linseed	.	92.2	89.8	88.6	90.2	88.5	99.4	109.4	83.5	103.8	128.5	116.5	128.7	123.6	130.6	130.9
Castorseed	.	94.0	98.1	90.5	91.9	93.6	96.9	96.0	75.5	77.3	83.0	78.6	82.1	73.8	80.6	75.9
OILSEEDS		106.5	115.8	110.7	108.9	123.6	119.3	123.4	125.0	128.4	137.8	136.0	145.9	146.0	145.1	146.5
Cotton	.	119.2	132.9	128.9	141.7	153.0	164.0	162.7	162.6	161.6	148.0	154.4	161.9	159.2	165.6	165.5
Jute	.	121.3	167.8	155.9	105.5	106.8	149.4	163.9	149.6	155.6	144.8	133.5	194.6	180.7	184.3	178.6
Mesta	.	100.0	104.9	103.4	99.0	93.7	122.2	156.2	163.0	193.2	154.3	144.1	223.5	199.5	207.0	188.9
FIBRES		118.8	135.0	130.4	137.3	147.2	160.7	161.8	160.7	161.3	147.2	151.5	165.8	161.4	167.5	166.3
Tea	.	100.4	100.1	100.4	99.3	101.0	101.3	100.7	102.3	102.6	105.6	105.7	105.16	106.1	106.5*	106.5*
Coffee	.	103.6	105.7	107.2	97.6	103.2	104.2	104.7	110.1	120.5	123.7	126.9	131.4*	131.4*	131.4*	131.4*
Rubber	.	83.9	84.7	89.5	122.5	127.3	128.1	129.8	148.8	195.0	207.2	217.5	236.0	244.2	256.5*	256.5*
PLANTATION CROPS		99.0	99.3	100.4	101.7	104.4	104.9	104.8	109.3	117.4	121.6	123.6	126.7	128.1	129.9	129.9
Sugarcane	.	116.4	132.2	117.8	96.0	109.6	125.1	138.9	140.4	132.0	144.8	163.6	166.3	154.5	152.8	172.3
Tobacco	.	102.7	82.9	104.2	106.1	99.6	117.8	120.4	103.3	108.9	117.4	115.4	120.2	119.6	126.8*	121.3*
Potatoes	.	102.4	106.7	108.7	109.8	113.8	119.5	122.2	137.1	144.4	154.6	156.2	152.2	171.3	168.6*	173.5*
Pepper	.	100.5	103.0	103.0	106.1	108.1	112.2	112.8	117.8	118.0	119.2	129.5	129.4	128.9	129.4	129.6
Chillies	.	115.4	109.2	97.4	105.4	124.8	117.8	117.2	122.6	110.6	117.9	129.9	117.5	120.0	138.8	136.1
Ginger	.	71.4	82.1	95.8	61.5	68.9	74.5	72.6	77.8	69.7	80.6	86.5	87.2	87.9	94.3	95.0
MISCELLANEOUS CROPS		112.3	117.8	110.6	100.3	103.9	113.5	121.0	122.1	116.8	126.7	138.8	138.2	134.1	137.4	146.6
NON-FOODGRAINS		110.8	121.3	116.2	115.9	127.4	130.7	134.4	135.2	136.6	139.0	141.2	150.7	149.0	150.9	152.7
ALL COMMODITIES		99.9	101.7	105.3	111.2	112.3	115.0	116.0	114.7	119.4	120.7	120.8	123.8	122.5	122.9	124.2

\*Based on provisional estimates.

NOTE.— The indices for 1962-63 and 1963-64 are generally based on 'Partially Revised Estimates, while those for 1964-65 are generally based on 'Final Estimates'. The indices for these years are, therefore, subject to revision.

## APPENDIX 1·2

### *Index Numbers of Agricultural Production in India*

(Base : Agricultural Year 1949-50=100)

Commodity/ Group	Weight	1950- 51	1951- 52	1952- 53	1953- 54	1954- 55	1955- 56	1956- 57	1957- 58	1958- 59	1959- 60	1960- 61	1961- 62	1962- 63	1963- 64	1964- 65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>I. FOODGRAINS—</b>																
Rice . . . . .	35·3	87·9	90·1	96·8	118·6	105·8	114·2	120·4	105·7	127·6	126·2	137·7	142·4	127·4	146·6	153·9
Jowar . . . . .	5·0	89·8	96·4	106·6	117·0	132·3	96·7	105·3	124·1	129·8	123·3	141·1	115·4	138·3	131·3	141·0
Bajra . . . . .	2·7	83·8	75·8	94·8	135·0	107·8	108·3	90·1	113·5	121·3	109·5	102·9	114·1	121·8	116·9	139·8
Maize . . . . .	2·1	84·4	101·3	123·3	130·2	127·5	112·3	132·8	135·9	135·5	146·5	146·7	154·3	163·8	162·9	163·1
Ragi . . . . .	1·2	87·6	80·4	82·0	115·0	108·6	119·7	118·7	118·9	129·1	131·5	121·7	132·0	123·2	127·6	124·9
Small Millets . . . . .	1·5	88·9	97·4	97·9	125·9	126·8	105·1	98·0	89·7	112·2	104·2	98·2	105·2	95·4	103·5	101·5
<b>KHARIF CEREALS . . . . .</b>	<b>47·8</b>	<b>87·7</b>	<b>90·4</b>	<b>98·5</b>	<b>120·0</b>	<b>110·4</b>	<b>111·8</b>	<b>116·9</b>	<b>109·2</b>	<b>127·4</b>	<b>125·3</b>	<b>134·8</b>	<b>137·1</b>	<b>128·7</b>	<b>142·2</b>	<b>149·8</b>
Wheat . . . . .	8·5	101·1	93·9	112·7	120·0	135·4	131·3	140·7	118·5	147·4	152·8	162·8	178·8	160·4	146·1	178·9
Barley . . . . .	2·0	105·6	100·0	122·4	123·2	124·4	118·5	120·5	95·9	112·7	113·7	118·0	133·5	102·7	86·3	105·0
<b>RABI CEREALS . . . . .</b>	<b>10·5</b>	<b>102·0</b>	<b>95·1</b>	<b>114·5</b>	<b>120·6</b>	<b>133·3</b>	<b>128·9</b>	<b>136·9</b>	<b>114·2</b>	<b>140·8</b>	<b>145·4</b>	<b>154·3</b>	<b>170·2</b>	<b>149·4</b>	<b>134·7</b>	<b>164·8</b>
<b>CEREALS . . . . .</b>	<b>58·3</b>	<b>90·3</b>	<b>91·2</b>	<b>101·4</b>	<b>120·1</b>	<b>114·5</b>	<b>114·9</b>	<b>120·5</b>	<b>110·1</b>	<b>129·8</b>	<b>128·9</b>	<b>138·3</b>	<b>143·1</b>	<b>132·4</b>	<b>140·8</b>	<b>152·5</b>
Gram . . . . .	3·7	98·0	88·2	109·2	125·4	145·9	138·9	159·8	125·8	180·3	144·2	160·4	148·5	137·2	115·5	148·0
Tur . . . . .	1·1	91·8	97·7	90·9	99·5	91·8	99·4	106·2	77·3	89·2	87·3	106·0	70·0	80·4	69·2	95·6
Other Pulses . . . . .	3·8	85·6	90·2	90·9	102·6	99·6	103·9	91·9	88·3	106·3	107·7	105·1	110·2	107·8	100·2	113·0
<b>PULSES . . . . .</b>	<b>8·6</b>	<b>91·7</b>	<b>90·3</b>	<b>98·8</b>	<b>112·0</b>	<b>118·5</b>	<b>118·4</b>	<b>122·9</b>	<b>103·0</b>	<b>136·0</b>	<b>120·8</b>	<b>129·0</b>	<b>121·5</b>	<b>116·9</b>	<b>102·8</b>	<b>125·8</b>
<b>FOODGRAINS . . . . .</b>	<b>66·9</b>	<b>90·5</b>	<b>91·1</b>	<b>101·1</b>	<b>119·1</b>	<b>115·0</b>	<b>115·3</b>	<b>120·8</b>	<b>109·2</b>	<b>130·6</b>	<b>127·9</b>	<b>137·1</b>	<b>140·3</b>	<b>130·4</b>	<b>135·9</b>	<b>149·1</b>
<b>II. NON-FOODGRAINS—</b>																
Groundnut . . . . .	5·7	101·4	93·0	85·3	100·3	123·6	112·4	127·2	137·5	149·0	134·7	142·1	147·5	142·4	153·9	182·3
Sesamum . . . . .	1·2	101·6	103·2	106·9	127·6	135·1	104·8	98·2	85·7	123·1	89·8	77·2	90·3	111·0	105·9	112·4



Rapeseed &	2.0	94.6	116.0	105.5	107.3	127.7	105.8	128.3	114.8	128.3	130.8	165.7	165.6	159.2	111.1	169.2
Mustard	0.8	87.8	77.1	86.0	89.1	90.3	97.1	90.3	60.0	104.7	106.8	95.3	111.1	103.9	90.9	111.8
Linseed	0.2	80.5	82.8	79.7	80.5	95.4	96.1	95.3	68.7	85.9	88.2	82.1	83.6	77.5	78.3	77.5
Castorseed																
<b>OILSEEDS</b>	<b>9.9</b>	<b>98.5</b>	<b>97.4</b>	<b>91.9</b>	<b>103.7</b>	<b>122.6</b>	<b>108.6</b>	<b>120.3</b>	<b>119.0</b>	<b>136.8</b>	<b>125.3</b>	<b>134.0</b>	<b>140.0</b>	<b>137.7</b>	<b>132.8</b>	<b>163.4</b>
Cotton	2.8	110.7	119.2	121.0	151.8	163.6	153.9	181.2	178.8	175.8	132.4	202.1	174.9	201.7	209.3	206.0
Jute	1.4	106.3	151.4	148.6	100.0	94.8	135.8	138.7	128.8	158.7	137.4	125.3	192.7	165.1	187.4	184.2
Mesta	0.3	100.0	104.8	103.3	98.5	136.5	174.7	221.5	196.2	255.9	172.2	168.8	280.8	250.4	276.5	234.4
<b>FIBRES</b>	<b>4.5</b>	<b>108.6</b>	<b>128.3</b>	<b>128.4</b>	<b>132.1</b>	<b>140.4</b>	<b>149.7</b>	<b>170.7</b>	<b>164.4</b>	<b>175.8</b>	<b>136.6</b>	<b>176.0</b>	<b>187.5</b>	<b>193.6</b>	<b>207.0</b>	<b>201.1</b>
Tea	3.3	103.8	109.6	115.4	100.6	110.4	107.2	117.2	115.7	119.4	122.7	120.9	133.4	130.5	130.2*	141.6*
Coffee	0.2	112.3	112.7	125.9	146.5	151.8	196.1	204.1	229.8	240.8	259.6	246.4	229.6	280.2	341.5*	341.5*
Rubber	0.1	93.8	94.4	106.1	131.8	127.6	146.1	152.9	140.1	160.2	157.6	167.0	178.9	207.8	246.5	293.2
<b>LANTATION CROPS</b>	<b>3.6</b>	<b>104.0</b>	<b>109.4</b>	<b>115.7</b>	<b>104.0</b>	<b>113.2</b>	<b>113.2</b>	<b>123.0</b>	<b>122.7</b>	<b>127.3</b>	<b>131.3</b>	<b>129.2</b>	<b>140.0</b>	<b>141.0</b>	<b>145.2</b>	<b>156.9</b>
Sugarcane (Gur)	8.7	113.7	122.8	101.6	89.5	115.9	119.8	137.2	138.1	141.5	153.3	183.9	173.5	156.8	173.9	202.1
Tobacco	1.9	97.3	78.0	91.3	101.5	95.1	112.9	113.7	89.4	118.2	108.7	114.3	126.2	132.2	129.7*	132.2*
Potato	1.0	107.4	110.8	128.9	126.5	114.1	120.3	111.6	126.3	148.0	172.3	168.6	151.7	192.6	149.4*	201.2*
Pepper (Black)	1.2	97.2	107.5	102.8	113.3	127.3	132.8	131.6	128.2	127.2	126.7	134.8	134.8	123.9	116.3	115.3
(Chillies (Dry)	2.0	119.4	118.4	98.0	104.9	131.9	122.9	120.8	121.5	113.5	122.1	142.5	130.3	143.0	155.3	155.0
Ginger (Dry)	0.3	94.4	96.0	89.6	90.9	94.3	105.7	102.3	105.0	90.9	106.4	116.3	124.2	128.8	140.7	140.0
<b>MISC. CROPS</b>	<b>15.1</b>	<b>110.3</b>	<b>114.0</b>	<b>101.5</b>	<b>97.4</b>	<b>115.8</b>	<b>120.1</b>	<b>129.2</b>	<b>127.5</b>	<b>133.1</b>	<b>141.8</b>	<b>163.4</b>	<b>156.3</b>	<b>151.1</b>	<b>159.0</b>	<b>178.9</b>
<b>NON-FOODGRAINS</b>	<b>33.1</b>	<b>105.9</b>	<b>110.5</b>	<b>103.8</b>	<b>104.7</b>	<b>120.9</b>	<b>119.9</b>	<b>131.5</b>	<b>129.5</b>	<b>139.4</b>	<b>135.0</b>	<b>152.6</b>	<b>153.9</b>	<b>151.8</b>	<b>156.2</b>	<b>174.9</b>
<b>ALL COMMODITIES</b>	<b>100.0</b>	<b>95.6</b>	<b>97.5</b>	<b>102.0</b>	<b>114.3</b>	<b>117.0</b>	<b>116.8</b>	<b>124.3</b>	<b>115.9</b>	<b>133.5</b>	<b>130.3</b>	<b>142.2</b>	<b>144.8</b>	<b>137.5</b>	<b>142.6</b>	<b>157.6</b>

\*Based on Provisional estimates.

NOTE.—The indices for 1962-63 and 1963-64 are generally based on 'Partially Revised Estimates' while those for 1964-65 are generally based on 'Final Estimates'. The indices for these years are, therefore, subject to revision.

## APPENDIX 1.3

### *Index Numbers of Agricultural Productivity in India*

(Base : Agricultural Year 1949-50=100)

Commodity/ Group	1950- 51	1951- 52	1952- 53	1953- 54	1954- 55	1955- 56	1956- 57	1957- 58	1958- 59	1959- 60	1960- 61	1961- 62	1962- 63	1963- 64	1964- 65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>I. FOODGRAINS—</b>															
Rice . . . . .	87.1	92.2	98.6	115.7	105.2	110.8	114.2	100.2	117.8	114.3	123.6	125.5	111.5	126.3	130.9
Jowar . . . . .	89.6	94.0	94.4	102.4	117.7	86.6	101.0	111.6	112.5	108.3	119.3	98.5	119.5	113.9	121.9
Bajra . . . . .	86.0	73.7	81.5	102.4	87.8	88.5	74.2	94.2	98.4	94.9	83.1	93.8	104.5	100.5	110.7
Maize . . . . .	87.6	100.3	112.1	110.3	111.5	99.6	115.9	109.2	104.2	110.6	109.2	112.3	116.6	116.5	116.5
Ragi . . . . .	94.8	87.6	87.2	117.5	112.7	128.4	125.9	118.9	122.8	126.2	116.9	127.0	128.6	128.6	124.4
Small Millets . . . . .	92.0	97.5	92.5	105.8	107.5	94.2	94.1	88.0	104.4	97.1	95.1	103.6	97.5	108.5	107.0
<b>KHARIF CEREALS . . . . .</b>	<b>88.2</b>	<b>90.7</b>	<b>93.6</b>	<b>107.9</b>	<b>101.9</b>	<b>103.0</b>	<b>109.0</b>	<b>99.8</b>	<b>112.8</b>	<b>111.4</b>	<b>117.2</b>	<b>118.8</b>	<b>112.6</b>	<b>123.8</b>	<b>127.9</b>
Wheat . . . . .	101.2	96.7	111.9	109.6	117.3	103.6	101.5	98.6	114.0	111.5	122.9	128.5	114.6	105.6	129.7
Barley . . . . .	107.9	100.6	119.9	111.0	115.8	110.2	109.0	99.4	108.5	107.0	116.9	125.7	106.0	97.0	122.7
<b>RABI CEREALS . . . . .</b>	<b>102.6</b>	<b>97.4</b>	<b>113.4</b>	<b>109.8</b>	<b>117.5</b>	<b>105.7</b>	<b>103.9</b>	<b>99.7</b>	<b>114.3</b>	<b>112.2</b>	<b>123.8</b>	<b>129.8</b>	<b>115.4</b>	<b>106.7</b>	<b>131.7</b>
<b>CEREALS . . . . .</b>	<b>90.8</b>	<b>91.8</b>	<b>97.0</b>	<b>108.2</b>	<b>104.9</b>	<b>103.8</b>	<b>108.2</b>	<b>99.8</b>	<b>113.2</b>	<b>111.7</b>	<b>118.5</b>	<b>121.2</b>	<b>113.3</b>	<b>120.4</b>	<b>128.7</b>
Gram . . . . .	107.5	107.2	124.9	130.6	130.9	117.7	136.9	114.7	148.3	115.7	143.3	128.7	123.9	102.1	136.2
Tur . . . . .	98.2	93.1	88.3	96.5	89.0	101.4	108.0	76.4	84.2	83.8	101.6	66.8	77.6	66.2	90.3
Other Pulses . . . . .	92.8	91.7	86.1	87.2	93.8	90.1	78.3	77.0	87.3	86.2	86.0	87.4	84.6	79.5	87.7
<b>PULSES . . . . .</b>	<b>99.8</b>	<b>97.5</b>	<b>100.9</b>	<b>104.6</b>	<b>107.4</b>	<b>101.4</b>	<b>104.8</b>	<b>90.8</b>	<b>111.2</b>	<b>96.7</b>	<b>109.0</b>	<b>99.8</b>	<b>97.2</b>	<b>85.1</b>	<b>104.4</b>
<b>FOODGRAINS . . . . .</b>	<b>92.4</b>	<b>93.0</b>	<b>98.0</b>	<b>108.1</b>	<b>105.2</b>	<b>103.0</b>	<b>107.4</b>	<b>98.6</b>	<b>112.5</b>	<b>109.1</b>	<b>117.3</b>	<b>118.2</b>	<b>111.0</b>	<b>115.6</b>	<b>125.5</b>
<b>II. NON-FOOD GRAINS—</b>															
Groundnut . . . . .	89.7	75.2	70.8	93.9	88.7	87.1	91.4	85.1	94.7	83.1	87.4	85.1	82.5	89.9	102.5
Sesamum . . . . .	94.3	87.8	92.0	101.6	105.9	94.2	93.2	84.4	112.7	86.6	73.3	82.6	93.1	91.5	93.0

Rapeseed &																
Mustard	88.4	94.0	97.6	93.1	102.0	80.6	98.5	92.8	102.2	87.7	112.1	102.0	99.9	71.7	117.3	
Linseed	95.2	85.9	97.1	98.8	102.0	97.7	82.5	71.9	100.9	83.1	81.8	86.3	84.1	69.6	85.4	
Castorseed	85.6	84.4	88.1	87.6	101.9	99.2	99.3	91.0	111.1	106.3	104.5	101.8	105.0	97.1	102.1	
OILSEEDS	92.5	84.1	83.0	95.2	99.2	91.0	97.5	95.2	106.5	90.9	98.5	96.0	94.3	91.5	111.5	
Cotton	92.9	89.7	93.9	107.1	106.9	93.8	111.4	110.0	108.8	89.5	130.9	108.0	126.7	126.4	124.5	
Jute	87.6	90.2	95.3	94.8	88.8	90.9	84.6	86.1	102.0	94.9	93.9	99.0	91.4	101.7	103.1	
Mesta	100.0	99.9	99.9	99.5	145.7	143.0	141.8	120.4	132.5	111.6	117.1	125.6	125.5	133.6	124.1	
FIBRES	91.4	95.0	98.5	96.2	95.4	93.2	105.5	102.3	109.0	92.8	116.2	113.1	120.0	123.6	120.9	
Tea	103.4	109.4	114.9	101.3	109.3	105.8	116.4	113.1	116.4	116.2	114.4	126.3	123.0	122.3	133.0	
Coffee	108.4	106.6	117.4	150.1	147.1	188.2	194.9	208.7	199.8	209.9	194.2	174.7	213.2	259.9	259.9	
Rubber	111.8	111.5	118.5	107.6	100.2	114.1	117.8	94.2	82.2	76.1	76.8	75.8	85.1	96.1	114.3	
PLANTATION CROPS	105.0	110.2	115.2	102.3	108.4	107.9	117.4	112.3	108.4	108.0	104.5	110.5	110.1	111.8	120.8	
Sugarcane (Gur)	97.7	92.9	86.2	93.2	105.7	95.7	98.8	98.4	107.2	105.9	112.4	104.3	101.5	113.8	117.3	
Tobacco	94.7	94.1	87.6	95.7	95.5	95.8	94.4	86.5	108.5	92.6	99.0	105.0	110.5	102.3	109.0	
Potato	104.9	103.8	118.6	115.2	100.3	110.7	91.3	92.1	102.5	111.4	107.9	99.7	112.4	88.6	116.0	
Pepper (black)	96.7	104.4	99.8	106.8	117.8	118.2	116.7	108.8	107.8	106.3	104.1	104.2	96.1	89.9	89.0	
Chillies (Dry)	103.5	108.4	100.6	99.5	105.7	104.3	103.4	99.1	102.6	103.6	109.7	110.9	119.2	111.9	113.9	
Ginger (Dry)	132.2	116.9	104.4	147.8	136.9	141.9	140.9	135.0	130.4	132.0	134.5	142.4	146.5	149.2	147.4	
MISCELLANEOUS CROPS	98.2	96.8	91.8	97.1	111.5	105.8	106.8	104.4	114.0	111.9	117.7	113.1	112.7	115.7	122.0	
NON-FOODGRAINS	95.6	91.1	89.3	90.3	94.9	91.7	97.8	95.8	102.0	97.1	108.1	102.1	101.9	103.5	114.5	
ALL COMMODITIES	95.7	95.9	96.9	102.8	104.2	101.6	107.2	101.0	111.8	108.0	117.7	117.0	112.2	116.0	126.9	

NOTE.—The indices for 1962-63 and 1963-64 are generally based on 'Partially Revised Estimates' while those for 1964-65 are generally based on 'Final Estimates'. The indices for these years are, therefore, subject to revision.

APPENDIX 2·1

State Index Numbers of Area under Crops—All-Crops 1952-53 to 1964-65

(Base : Agricultural Year 1956-57 = 100)

State/Year	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Punjab . . . . .	78·6	83·9	94·4	99·3	100·0	99·4	104·9	101·7	102·8	102·4	106·2	102·7	105·7
2. Gujarat . . . . .	92·4	94·3	97·6	97·8	100·0	97·6	100·7	100·4	100·3	104·4	98·8	94·8	100·5
3. Madras . . . . .	88·4	99·5	100·6	99·3	100·0	97·3	99·4	101·1	105·0	104·4	105·8	106·7	107·1
4. Mysore . . . . .	88·2	93·7	96·8	99·8	100·0	100·4	101·8	102·0	102·1	102·8	104·8	99·3	99·2
5. Himachal Pradesh . . . . .	94·4	97·2	99·5	100·1	100·0	101·4	102·6	103·8	101·3	103·5	104·0	104·8	104·0
6. Bihar . . . . .	108·7	103·1	96·6	100·6	100·0	94·2	108·3	106·6	109·2	109·3	109·7	109·9	107·0
7. Maharashtra . . . . .	93·1	97·3	99·0	99·3	100·0	98·9	100·1	100·1	100·4	101·8	100·9	100·4	100·8
8. Rajasthan . . . . .	72·0	81·4	86·5	90·6	100·0	95·4	100·1	104·3	100·2	108·3	106·0	102·8	109·2
9. Andhra Pradesh . . . . .	96·5	98·2	97·2	99·1	100·0	97·0	97·6	96·2	95·0	97·8	102·6	102·4	99·7
10. Madhya Pradesh . . . . .	91·8	95·0	96·4	98·8	100·0	94·7	101·4	104·1	103·9	105·6	105·2	107·3	108·2
11. Orissa . . . . .	99·2	100·1	99·6	99·4	100·0	99·7	99·7	107·5	98·0	104·4	112·6	106·8	107·2
12. Kerala . . . . .	94·4	98·4	98·6	98·8	100·0	101·7	103·2	105·8	108·2	107·5	109·6	109·7	110·4
13. West Bengal . . . . .	102·1	104·5	97·9	101·8	100·0	98·2	99·5	103·5	105·4	105·9	104·8	106·8	109·4
14. Uttar Pradesh . . . . .	93·4	96·3	97·6	98·7	100·0	97·9	100·9	101·2	102·0	103·4	102·5	102·7	102·7
15. Assam . . . . .	97·5	97·3	96·2	99·4	100·0	100·2	105·4	105·4	106·2	108·9	110·9	107·5	110·5

APPENDIX 2·2

*State Index Numbers of Agricultural Production—All-Crops 1952-53 to 1964-65*

(Base : Agricultural Year 1956-57=100)

State/Year	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Punjab . . . . .	77·0	85·3	90·7	86·1	100·0	100·8	112·0	106·8	119·4	121·0	126·5	119·2	142·2
2. Gujarat . . . . .	68·6	99·5	115·9	92·0	100·0	90·0	130·4	89·7	116·7	134·5	128·9	131·8	153·3
3. Madras . . . . .	67·9	83·2	95·5	96·0	100·0	102·9	102·3	108·5	116·5	119·6	120·1	121·5	123·9
4. Mysore . . . . .	75·2	95·6	100·8	105·4	100·0	111·7	113·2	116·7	113·2	118·7	126·2	123·9	134·4
5. Himachal Pradesh . . . . .	71·6	86·2	87·2	87·8	100·0	98·4	97·5	101·6	97·8	121·8	107·8	113·4	115·8
6. Bihar . . . . .	112·4	119·2	88·2	105·5	100·0	78·4	129·8	117·1	134·6	132·5	131·9	138·0	139·9
7. Maharashtra . . . . .	72·5	91·7	99·7	86·8	100·0	100·6	105·8	97·5	125·1	107·1	110·9	113·1	114·3
8. Rajasthan . . . . .	74·2	97·1	94·2	93·1	100·0	95·0	108·8	108·1	104·7	123·6	122·8	93·6	121·6
9. Andhra Pradesh . . . . .	82·1	90·7	94·2	93·6	100·0	96·5	103·5	103·2	99·2	109·4	110·5	118·5	122·0
10. Madhya Pradesh . . . . .	76·6	83·8	85·6	86·7	100·0	77·2	104·2	100·4	107·1	99·6	92·2	102·3	113·5
11. Orissa . . . . .	99·7	99·2	97·7	95·6	100·0	78·8	95·2	108·1	109·0	112·4	112·9	127·3	131·5
12. Kerala . . . . .	89·3	92·5	95·8	98·6	100·0	101·3	104·9	111·0	111·8	110·1	114·5	116·6	116·1
13. West Bengal . . . . .	109·3	118·7	97·3	105·4	100·0	98·2	103·6	104·7	123·3	123·3	115·7	127·8	139·8
14. Uttar Pradesh . . . . .	91·3	91·3	100·4	92·7	100·0	90·8	101·4	102·2	113·0	112·8	103·6	95·0	121·8
15. Assam . . . . .	94·2	93·4	96·4	95·7	100·0	100·0	103·0	102·9	98·9	107·3	98·3	105·1	113·1

## APPENDIX 2·3

*State Index Numbers of Agricultural Productivity—All-Crops 1952-53 to 1964-65*

(Base : Agricultural Year 1956-57 = 100)

State/Year	1952- 53	1953- 54	1954- 55	1955- 56	1956- 57	1957- 58	1958- 59	1959- 60	1960- 61	1961- 62	1962- 63	1963- 64	1964- 65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Punjab . . . . .	98·0	101·7	96·1	86·7	100·0	101·4	106·8	105·0	116·1	118·2	119·1	116·1	134·5
2. Gujarat . . . . .	74·2	105·5	118·8	94·1	100·0	92·2	129·5	89·3	116·4	128·8	130·5	139·0	152·5
3. Madras . . . . .	76·8	83·6	94·9	96·7	100·0	105·8	102·9	107·3	111·0	114·6	113·5	113·9	115·7
4. Mysore . . . . .	85·3	102·0	104·1	105·6	100·0	111·3	111·2	114·4	110·9	115·5	120·4	124·8	135·5
5. Himachal Pradesh . . . . .	75·8	88·7	87·6	87·7	100·0	97·0	95·6	97·9	96·5	117·7	103·7	108·2	111·3
6. Bihar . . . . .	103·4	115·6	91·3	104·9	100·0	83·2	119·9	108·8	123·3	121·2	120·2	125·6	130·7
7. Maharashtra . . . . .	78·0	94·6	101·0	87·6	100·0	101·7	105·7	97·4	124·6	105·2	109·9	112·6	113·4
8. Rajasthan . . . . .	103·1	119·3	108·9	102·8	100·0	99·6	108·7	103·6	104·5	114·1	115·8	91·1	111·4
9. Andhra Pradesh . . . . .	85·1	92·4	96·9	94·5	100·0	99·5	106·0	107·3	104·4	111·9	107·7	115·7	122·4
10. Madhya Pradesh . . . . .	83·4	88·2	88·8	87·8	100·0	81·5	102·8	96·4	103·1	94·3	87·6	96·3	104·9
11. Orissa . . . . .	100·5	99·1	98·1	96·2	100·0	79·0	95·5	100·6	111·2	107·7	100·3	119·2	122·7
12. Kerala . . . . .	94·6	94·0	97·2	99·8	100·0	99·6	101·6	104·9	103·3	102·4	104·5	106·3	105·2
13. West Bengal . . . . .	107·1	113·6	99·4	103·5	100·0	100·0	104·1	101·2	117·0	116·4	110·5	119·7	127·8
14. Uttar Pradesh . . . . .	97·8	94·8	102·9	93·9	100·0	92·7	100·5	101·0	110·8	109·1	101·1	92·5	118·6
15. Assam . . . . .	96·6	96·0	100·2	96·3	100·0	99·8	97·7	97·6	93·1	98·5	88·6	97·8	102·4

APPENDIX 2.4

State Index Numbers of Area under Crops—Foodgrains 1952-53 to 1964-65

(Base : Agricultural Year 1956-57=100)

State/Year	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Punjab . . . . .	80.7	86.1	94.7	100.5	100.0	98.4	105.2	102.8	103.0	101.1	104.8	99.7	103.6
2. Gujarat . . . . .	113.6	114.5	104.1	104.3	100.0	91.7	96.7	95.9	87.7	91.1	85.7	83.8	87.8
3. Madras . . . . .	88.3	104.2	100.0	98.2	100.0	96.0	97.5	99.5	103.2	102.9	103.9	104.0	104.2
4. Mysore . . . . .	91.7	97.1	99.5	101.4	100.0	101.1	104.2	104.5	105.9	106.7	109.9	101.9	102.0
5. Himachal Pradesh . . . . .	94.5	97.2	99.6	100.2	100.0	100.9	101.9	103.5	101.1	102.8	103.2	103.9	103.1
6. Bihar . . . . .	108.9	104.7	98.1	101.6	100.0	94.7	108.8	106.9	109.9	108.6	109.8	110.5	107.6
7. Maharashtra . . . . .	94.8	99.1	99.0	98.5	100.0	99.0	100.2	100.8	101.7	101.7	100.8	99.7	100.3
8. Rajasthan . . . . .	74.0	82.6	86.1	91.0	100.0	94.9	100.5	104.9	101.7	109.1	104.5	101.7	108.8
9. Andhra Pradesh . . . . .	95.8	101.0	97.5	99.9	100.0	99.2	104.3	104.3	102.3	105.5	109.4	106.3	103.9
10. Madhya Pradesh . . . . .	92.4	96.1	96.5	98.2	100.0	95.7	100.6	104.4	104.9	105.0	105.7	107.6	107.1
11. Orissa . . . . .	98.4	100.1	99.4	99.0	100.0	100.0	100.2	108.8	97.8	104.4	112.4	105.8	105.2
12. Kerala . . . . .	94.8	99.1	99.6	99.2	100.0	98.7	98.8	99.7	100.9	97.6	103.7	104.0	103.4
13. West Bengal . . . . .	101.8	106.9	98.9	101.2	100.0	98.3	98.0	102.1	105.4	102.1	102.4	104.6	106.7
14. Uttar Pradesh . . . . .	94.0	98.7	99.2	99.2	100.0	98.5	102.3	102.1	101.5	101.6	101.2	101.1	100.3
15. Assam . . . . .	96.9	97.4	96.2	98.8	100.0	99.5	105.2	105.1	106.4	108.7	110.8	107.4	110.8

## APPENDIX 2.5

*State Index Numbers of Agricultural Production—Foodgrains 1952-53 to 1964-65*

(Base : Agricultural Year 1956-57=100)

State/Year	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Punjab . . . . .	79.9	88.5	89.8	87.6	100.0	96.4	112.3	102.9	114.4	116.0	122.2	109.7	132.9
2. Gujarat . . . . .	91.1	130.1	122.9	99.4	100.0	94.6	133.1	94.6	96.9	128.9	119.4	133.5	149.6
3. Madras . . . . .	64.6	84.8	93.3	94.0	100.0	102.1	98.8	105.9	111.2	118.6	121.2	118.2	121.4
4. Mysore . . . . .	82.3	103.2	111.7	113.3	100.0	112.7	118.3	123.7	120.0	126.0	135.3	129.9	141.0
5. Himachal Pradesh . . . . .	68.4	85.0	86.2	84.9	100.0	97.7	97.1	101.3	97.1	121.5	107.0	113.1	115.6
6. Bihar . . . . .	110.0	121.4	88.3	106.7	100.0	73.7	132.2	116.1	134.8	134.6	132.0	139.0	139.7
7. Maharashtra . . . . .	75.1	96.5	103.6	91.2	100.0	98.9	107.1	98.8	122.5	105.8	108.0	108.5	111.2
8. Rajasthan . . . . .	79.5	105.0	97.0	97.9	100.0	93.8	114.4	112.9	102.0	126.6	122.2	96.8	127.5
9. Andhra Pradesh . . . . .	83.1	96.3	97.3	94.5	100.0	100.7	113.6	114.7	107.8	122.0	122.5	124.2	126.4
10. Madhya Pradesh . . . . .	78.5	85.8	85.1	87.6	100.0	75.4	102.3	102.7	107.5	100.8	91.8	101.8	112.1
11. Orissa . . . . .	97.5	99.2	95.8	92.4	100.0	75.7	95.3	109.3	108.8	109.5	109.2	124.5	127.3
12. Kerala . . . . .	81.3	84.7	92.2	99.4	100.0	102.4	106.2	116.7	119.9	112.9	122.8	126.6	124.2
13. West Bengal . . . . .	95.0	122.9	92.5	99.3	100.0	93.7	91.7	93.5	118.7	104.9	97.3	116.6	124.6
14. Uttar Pradesh . . . . .	95.1	100.3	105.3	97.0	100.0	90.5	104.2	102.5	113.5	111.9	104.0	91.7	116.7
15. Assam . . . . .	95.8	97.6	98.8	94.2	100.0	94.8	98.2	101.2	100.8	102.1	92.5	106.9	110.6



APPENDIX 2-6

*State Index Numbers of Agricultural Productivity - Foodgrains 1952-53 to 1964-65*

(Base : Agricultural Year 1956-57=100)

State/Year	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Punjab . . . . .	99.0	102.8	94.8	87.2	100.0	98.0	106.7	100.1	111.1	114.7	116.6	110.0	128.3
2. Gujarat . . . . .	80.2	113.6	118.1	95.3	100.0	103.2	137.6	98.6	110.5	141.5	139.3	159.3	170.4
3. Madras . . . . .	73.2	81.4	93.3	95.7	100.0	106.4	101.3	106.4	107.8	115.3	116.8	113.7	116.5
4. Mysore . . . . .	89.7	106.3	112.3	111.7	100.0	111.5	113.5	118.4	113.3	118.1	123.1	127.5	138.2
5. Himachal Pradesh . . . . .	72.4	87.4	86.5	84.7	100.0	96.8	95.3	97.9	96.0	118.2	103.7	108.9	112.1
6. Bihar . . . . .	101.0	116.0	90.0	105.0	100.0	77.8	121.5	108.6	122.7	123.9	120.2	125.8	129.8
7. Maharashtra . . . . .	79.2	97.4	104.6	92.6	100.0	99.9	106.9	98.0	120.5	104.0	107.1	108.8	110.9
8. Rajasthan . . . . .	107.4	127.1	112.7	107.6	100.0	98.8	113.8	107.6	100.3	116.0	116.9	95.2	117.2
9. Andhra Pradesh . . . . .	86.7	95.3	99.8	94.6	100.0	101.9	109.8	110.5	105.8	115.6	112.0	116.8	121.7
10. Madhya Pradesh . . . . .	85.0	89.3	88.2	89.2	100.0	78.8	101.7	98.4	102.5	96.0	86.8	94.6	104.7
11. Orissa . . . . .	99.1	99.1	96.4	93.3	100.0	75.7	95.1	100.5	111.2	104.9	97.2	118.2	121.0
12. Kerala . . . . .	85.8	85.5	92.6	96.6	100.0	103.7	107.5	117.1	118.7	115.7	118.4	121.7	120.1
13. West Bengal . . . . .	93.3	115.0	93.5	98.1	100.0	95.3	93.6	91.6	112.6	102.7	95.1	111.5	116.8
14. Uttar Pradesh . . . . .	101.2	101.6	106.1	97.8	100.0	91.9	101.9	100.4	111.8	110.1	102.8	90.7	116.4 <sup>y</sup>
15. Assam . . . . .	98.9	100.2	102.7	95.3	100.0	95.3	93.3	96.3	94.7	93.9	83.5	99.5	99.8

## APPENDIX 2·7

*State Index Numbers of Area under Crops—Non-foodgrains 1952-53 to 1964-65*

(Base : Agricultural Year 1956-57=100)

State/Year	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Punjab . . . . .	66·6	70·9	92·1	92·4	100·0	105·5	103·0	94·9	101·6	109·6	114·0	120·2	117·4
2. Gujarat . . . . .	63·4	66·7	88·8	88·8	100·0	105·7	106·1	106·6	117·5	122·5	116·7	109·5	117·6
3. Madras . . . . .	88·9	84·2	102·8	102·9	100·0	101·4	105·7	106·2	110·8	109·4	112·4	115·8	116·9
4. Mysore . . . . .	78·7	84·3	89·3	95·4	100·0	98·6	95·5	95·4	91·9	91·9	90·7	92·0	91·5
5. Himachal Pradesh . . . . .	93·3	95·8	96·5	96·6	100·0	114·6	120·0	111·0	105·3	121·9	124·6	128·8	127·6
6. Bihar . . . . .	106·1	83·3	78·5	89·1	100·0	88·2	102·5	103·5	100·7	117·9	109·2	103·8	101·2
7. Maharashtra . . . . .	88·1	92·0	99·0	101·9	100·0	98·6	99·7	98·1	97·0	102·1	101·1	102·5	102·4
8. Rajasthan . . . . .	55·7	71·3	90·4	87·1	100·0	99·8	96·9	99·6	86·2	102·0	118·4	112·2	112·9
9. Andhra Pradesh . . . . .	99·0	89·2	96·3	96·6	100·0	90·0	76·5	70·7	71·9	73·6	81·3	90·3	86·5
10. Madhya Pradesh . . . . .	88·2	89·3	95·7	101·7	100·0	88·9	105·2	101·6	97·7	108·1	101·2	104·7	113·2
11. Orissa . . . . .	110·9	100·2	103·2	105·7	100·0	95·2	92·5	89·6	101·0	103·2	113·5	128·1	135·2
12. Kerala . . . . .	93·4	97·9	97·9	98·5	100·0	103·9	106·5	110·5	113·7	115·0	114·0	114·0	115·6
13. West Bengal . . . . .	104·8	83·8	89·0	107·5	100·0	98·1	112·6	116·2	105·6	139·1	130·7	130·8	137·7
14. Uttar Pradesh . . . . .	90·5	85·5	90·3	96·1	100·0	95·3	94·1	97·2	103·5	109·6	106·9	108·2	111·3
15. Assam . . . . .	99·6	96·8	96·1	101·9	100·0	102·8	105·9	106·5	105·5	109·5	111·3	108·1	109·7

## APPENDIX 2·8

*State Index Numbers of Agricultural Production—Non-foodgrains 1952-53 to 1964-65*

(Base : Agricultural Year 1956-57=100)

State/Year	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Punjab . . . . .	68·8	76·2	93·4	81·7	100·0	113·6	111·3	117·9	133·8	135·3	139·0	146·7	168·9
2. Guajrat . . . . .	53·3	78·7	111·2	86·9	100·0	86·9	128·6	86·4	130·1	138·3	135·4	130·6	155·8
3. Madras . . . . .	74·2	80·2	99·8	99·8	100·0	104·5	109·0	113·6	126·8	121·5	118·0	127·7	128·7
4. Mysore . . . . .	62·2	81·6	80·9	90·8	100·0	109·9	103·8	103·9	100·7	105·2	109·5	112·9	122·2
5. Himachal Pradesh . . . . .	102·3	97·7	96·9	115·6	100·0	105·7	101·2	104·4	104·6	124·4	115·3	116·6	117·4
6. Bihar . . . . .	131·6	101·2	87·8	95·9	100·0	116·6	110·2	125·5	132·7	115·8	130·8	129·6	141·7
7. Maharashtra . . . . .	67·4	82·4	92·3	78·4	100·0	104·0	103·4	95·1	130·1	109·6	116·5	121·9	120·3
8. Rajasthan . . . . .	56·3	69·8	84·4	76·5	100·0	99·3	89·5	91·4	114·2	113·0	124·7	82·6	101·2
9. Andhra Pradesh . . . . .	80·1	80·1	88·4	91·9	100·0	88·5	84·5	81·5	82·8	85·6	87·9	107·7	113·6
10. Madhya Pradesh . . . . .	62·7	69·4	89·5	80·4	100·0	90·3	117·4	84·4	103·9	91·2	95·4	105·5	123·7
11. Orissa . . . . .	113·7	99·4	109·9	116·2	100·0	99·0	94·3	100·3	110·6	130·7	136·7	144·9	158·0
12. Kerala . . . . .	92·6	95·7	97·3	98·2	100·0	100·9	104·3	108·7	108·5	108·9	111·1	112·5	112·8
13. West Bengal . . . . .	149·3	106·9	110·5	122·4	100·0	110·6	136·7	136·1	136·1	174·8	167·2	159·2	182·3
14. Uttar Pradesh . . . . .	82·9	71·5	89·9	83·3	100·0	91·4	95·2	101·5	111·9	114·9	102·7	102·1	133·1
15. Assam . . . . .	93·0	90·1	94·4	96·9	100·0	104·1	106·9	104·3	97·3	111·5	103·0	103·6	115·1

APPENDIX 2·9

*State Index Numbers of Agricultural Productivity—Non-foodgrains 1952-53 to 1964-65*

(Base : Agricultural Year 1956-57=100)

State/Year	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Punjab . . . . .	103·3	107·5	101·4	88·4	100·0	107·7	108·1	124·2	131·7	123·4	121·9	122·0	143·9
2. Gujarat . . . . .	84·1	118·0	125·2	97·9	100·0	82·2	121·2	81·0	110·6	112·9	116·0	119·3	132·5
3. Madras . . . . .	83·4	95·2	97·1	97·0	100·0	103·1	103·1	107·0	114·4	111·1	105·0	110·3	110·1
4. Mysore . . . . .	79·0	96·8	90·6	95·2	100·0	111·5	108·7	108·9	109·6	114·5	120·7	122·7	133·6
5. Himachal Pradesh . . . . .	109·6	102·0	100·4	119·7	100·0	92·2	84·3	94·1	99·3	102·1	92·5	90·5	92·0
6. Bihar . . . . .	124·0	121·5	111·8	107·6	100·0	132·2	107·5	121·3	131·8	98·2	119·8	124·9	140·0
7. Maharashtra . . . . .	77·0	90·3	93·9	77·1	100·0	105·5	103·7	96·9	134·1	93·2	115·2	118·9	117·5
8. Rajasthan . . . . .	101·1	97·9	93·4	87·8	100·0	99·5	92·4	91·8	132·5	110·8	105·3	73·6	89·6
9. Andhra Pradesh . . . . .	80·9	89·8	91·8	95·1	100·0	98·3	110·5	115·3	115·2	116·3	106·1	110·3	131·3
10. Madhya Pradesh . . . . .	71·1	77·7	93·5	79·0	100·0	101·6	111·6	83·1	106·3	84·4	94·3	100·8	109·3
11. Orissa . . . . .	102·5	99·2	106·5	109·9	100·0	104·0	101·9	111·9	109·5	126·6	120·4	113·1	116·9
12. Kerala . . . . .	99·1	97·8	99·4	99·7	100·0	97·1	97·9	98·4	95·4	94·7	97·5	98·7	97·6
13. West Bengal . . . . .	142·5	127·6	124·2	113·9	100·0	112·7	121·4	117·1	128·8	125·7	127·9	121·7	132·4
14. Uttar Pradesh . . . . .	91·6	83·6	99·6	86·7	100·0	95·9	101·2	104·4	108·1	104·8	96·1	94·4	119·6
15. Assam . . . . .	93·4	93·1	98·2	95·1	100·0	101·3	100·9	97·9	92·2	101·8	92·5	95·8	104·9

APPENDIX 2·10

*Index Numbers of Area under Crops—Punjab*

(Base : Agricultural Year 1956-57=100)

Crop /Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS</b>													
Rice . . . . .	81·4	86·4	87·7	90·8	100·0	107·1	120·3	130·8	144·7	147·3	154·0	153·2	172·3
Jowar . . . . .	113·9	122·9	91·8	105·1	100·0	116·3	110·3	101·0	117·2	115·7	121·7	113·2	107·6
Bajra . . . . .	126·3	125·5	100·7	105·7	100·0	94·1	98·3	88·1	94·0	89·4	85·2	78·1	94·8
Maize . . . . .	89·9	89·9	88·1	92·0	100·0	104·9	113·7	120·4	123·6	118·8	131·4	132·6	127·8
Small Millets . . . . .	42·4	43·5	37·6	41·2	100·0	50·6	55·3	58·8	54·1	44·7	30·6	32·9	26·3
Wheat . . . . .	79·4	82·7	89·8	98·1	100·0	98·9	107·8	107·1	108·6	111·5	117·3	117·1	121·4
Barley . . . . .	94·0	112·6	124·0	110·0	100·0	115·8	104·4	104·4	93·6	93·2	84·2	71·1	77·8
<b>CEREALS</b> . . . . .	94·1	97·3	93·3	99·3	100·0	100·5	106·7	104·9	108·7	108·5	111·9	109·1	115·8
Gram . . . . .	56·8	66·0	98·1	104·3	100·0	96·9	106·9	102·5	98·0	93·1	97·1	89·5	88·2
Other Pulses . . . . .	84·4	90·5	87·3	86·5	100·0	80·6	71·2	77·3	61·7	61·2	65·9	48·3	56·3
<b>PULSES</b> . . . . .	59·8	68·7	96·9	102·3	100·0	95·1	103·0	99·7	94·0	89·6	93·6	85·0	84·7
<b>FOODGRAINS</b> . . . . .	80·7	86·1	94·7	100·5	100·0	98·4	105·2	102·8	103·0	101·1	104·8	99·7	103·6

APPENDIX 2·10

*Index Numbers of Area under Crops—Punjab—contd.*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>II. NON-FOODGRAINS—</b>													
Groundnut . . . . .	83·3	77·3	91·3	90·0	100·0	96·7	102·7	100·7	117·3	126·0	142·0	192·0	225·3
Other Oilseeds . . . . .	64·6	76·0	109·5	97·3	100·0	104·8	99·2	81·0	90·1	102·4	121·8	109·5	86·5
<b>OILSEEDS . . . . .</b>	<b>67·6</b>	<b>76·2</b>	<b>106·6</b>	<b>96·2</b>	<b>100·0</b>	<b>103·5</b>	<b>99·8</b>	<b>84·1</b>	<b>94·5</b>	<b>106·2</b>	<b>125·1</b>	<b>122·7</b>	<b>108·8</b>
Cotton . . . . .	56·5	62·5	83·3	90·5	100·0	107·6	104·7	92·7	93·2	101·9	101·8	118·8	114·5
<b>FIBRES . . . . .</b>	<b>56·5</b>	<b>62·5</b>	<b>83·3</b>	<b>90·5</b>	<b>100·0</b>	<b>107·6</b>	<b>104·7</b>	<b>92·7</b>	<b>93·2</b>	<b>101·9</b>	<b>101·8</b>	<b>118·8</b>	<b>114·5</b>
Sugarcane . . . . .	89·8	79·0	84·1	87·6	100·0	101·6	102·4	120·2	135·4	136·5	122·2	117·1	139·4
Potatoes . . . . .	90·5	95·2	90·5	81·0	100·0	123·8	138·1	152·4	147·6	152·4	200·0	190·5	209·6
Chillies . . . . .	91·4	108·6	144·8	119·0	100·0	113·8	110·3	91·4	122·4	117·2	139·6	120·7	117·2
Tobacco . . . . .	100·0	116·7	100·0	116·7	100·0	66·7	66·7	66·7	66·7	66·7	66·7	66·7	83·4
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>90·1</b>	<b>93·0</b>	<b>90·6</b>	<b>90·8</b>	<b>100·0</b>	<b>103·3</b>	<b>104·2</b>	<b>117·9</b>	<b>133·9</b>	<b>134·4</b>	<b>126·2</b>	<b>119·6</b>	<b>139·1</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>66·6</b>	<b>70·9</b>	<b>92·1</b>	<b>92·4</b>	<b>100·0</b>	<b>105·5</b>	<b>103·0</b>	<b>94·9</b>	<b>101·6</b>	<b>109·6</b>	<b>114·0</b>	<b>120·2</b>	<b>117·4</b>
<b>ALL CROPS . . . . .</b>	<b>78·6</b>	<b>83·9</b>	<b>94·4</b>	<b>99·3</b>	<b>100·0</b>	<b>99·4</b>	<b>104·9</b>	<b>101·7</b>	<b>102·8</b>	<b>102·4</b>	<b>106·2</b>	<b>102·7</b>	<b>105·7</b>

NOTE.—The Index Numbers for the year 1964-65 are based on 'Final Estimates' and are, therefore, subject to revision.

## Index Numbers of Agricultural Production—Punjab

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS—</b>														
Rice . . . . .	4.91	88.8	94.2	91.4	77.3	100.0	108.8	127.5	153.5	159.2	172.2	163.4	186.3	231.0
Jowar . . . . .	0.47	115.9	148.8	73.6	76.7	100.0	253.5	118.6	127.9	125.6	130.2	116.3	111.6	116.3
Bajra . . . . .	2.87	212.5	232.9	105.0	160.8	100.0	116.2	111.7	122.9	120.8	140.0	161.3	123.3	139.6
Maize . . . . .	8.42	76.0	74.4	62.6	56.2	100.0	89.5	71.3	98.0	85.1	93.3	92.3	113.5	104.0
Small Millets . . . . .	0.15	33.3	26.7	26.7	33.3	100.0	46.7	60.0	66.7	53.3	26.7	60.1	80.1	40.1
Wheat . . . . .	31.70	84.4	84.8	95.0	89.0	100.0	96.7	112.5	106.6	126.7	133.1	137.6	136.4	161.8
Barley . . . . .	1.92	93.3	120.2	120.2	108.4	100.0	110.4	96.7	94.5	78.7	88.0	85.3	60.1	98.9
<b>CEREALS . . . . .</b>	<b>50.44</b>	<b>91.2</b>	<b>94.2</b>	<b>90.4</b>	<b>86.9</b>	<b>100.0</b>	<b>99.6</b>	<b>106.3</b>	<b>110.3</b>	<b>120.5</b>	<b>128.6</b>	<b>131.5</b>	<b>133.4</b>	<b>154.4</b>
Gram . . . . .	22.42	53.8	74.2	88.2	89.6	100.0	89.4	126.9	86.2	102.4	88.8	102.2	58.1	87.6
Other Pulses . . . . .	1.33	92.0	111.4	92.0	83.0	100.0	94.3	92.0	102.3	87.5	97.7	109.1	80.7	79.5
<b>PULSES . . . . .</b>	<b>23.75</b>	<b>55.9</b>	<b>76.3</b>	<b>88.4</b>	<b>89.2</b>	<b>100.0</b>	<b>89.7</b>	<b>124.9</b>	<b>87.1</b>	<b>101.6</b>	<b>89.3</b>	<b>102.6</b>	<b>59.4</b>	<b>87.1</b>
<b>FOODGRAINS . . . . .</b>	<b>74.19</b>	<b>79.9</b>	<b>88.5</b>	<b>89.8</b>	<b>87.6</b>	<b>100.0</b>	<b>96.4</b>	<b>112.3</b>	<b>102.9</b>	<b>114.4</b>	<b>116.0</b>	<b>122.2</b>	<b>109.7</b>	<b>132.9</b>

APPENDIX 2·11—*contd.*

*Index Numbers of Agricultural Production—Punjab—contd.*

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>II. NON-FOODGRAINS—</b>														
Groundnut . . . . .	0·71	75·0	70·8	83·3	81·2	100·0	93·7	110·4	108·3	133·3	141·7	158·4	206·3	352·2
Other oilseeds . . . . .	2·81	58·3	79·2	101·7	92·5	100·0	103·3	110·8	89·2	118·3	146·7	180·0	64·2	115·0
<b>OILSEEDS . . . . .</b>	<b>3·52</b>	<b>61·7</b>	<b>77·5</b>	<b>98·0</b>	<b>90·2</b>	<b>100·0</b>	<b>101·4</b>	<b>110·7</b>	<b>93·1</b>	<b>121·3</b>	<b>145·7</b>	<b>175·6</b>	<b>92·9</b>	<b>163·6</b>
Cotton . . . . .	11·99	56·3	73·2	90·1	71·9	100·0	110·1	95·5	101·9	105·4	123·4	121·1	153·2	150·3
<b>FIBRES . . . . .</b>	<b>11·99</b>	<b>56·3</b>	<b>73·2</b>	<b>90·1</b>	<b>71·9</b>	<b>100·0</b>	<b>110·1</b>	<b>95·5</b>	<b>101·9</b>	<b>105·4</b>	<b>123·4</b>	<b>121·1</b>	<b>153·2</b>	<b>150·3</b>
Sugarcane (Gur) . . . . .	7·14	90·6	81·1	95·0	98·0	100·0	124·8	132·2	155·0	183·5	151·3	128·0	152·9	199·5
Potatoes . . . . .	1·87	69·3	61·4	70·1	61·4	100·0	117·3	129·1	141·7	148·8	130·7	209·4	189·8	212·6
Chillies (Dry) . . . . .	1·11	86·7	100·0	146·7	93·3	100·0	120·0	126·7	100·0	146·7	146·7	180·0	146·7	133·4
Tobacco . . . . .	0·18	66·7	66·7	66·7	66·7	100·0	66·7	66·7	66·7	66·7	66·7	66·7	66·7	66·7
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>10·30</b>	<b>85·9</b>	<b>79·3</b>	<b>95·6</b>	<b>90·3</b>	<b>100·0</b>	<b>121·9</b>	<b>129·9</b>	<b>145·1</b>	<b>171·2</b>	<b>145·6</b>	<b>147·3</b>	<b>157·4</b>	<b>192·4</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>25·81</b>	<b>68·8</b>	<b>76·2</b>	<b>93·4</b>	<b>81·7</b>	<b>100·0</b>	<b>113·6</b>	<b>111·3</b>	<b>117·9</b>	<b>133·8</b>	<b>135·3</b>	<b>139·0</b>	<b>146·7</b>	<b>168·9</b>
<b>ALL-CROPS . . . . .</b>	<b>100·00</b>	<b>77·0</b>	<b>85·3</b>	<b>90·7</b>	<b>86·1</b>	<b>100·8</b>	<b>100·8</b>	<b>112·0</b>	<b>106·8</b>	<b>119·4</b>	<b>121·0</b>	<b>126·5</b>	<b>119·2</b>	<b>142·2</b>

NOTE.—The index numbers for the year 1964-65 are based on 'Final Estimates' and are, therefore, subject to revision.



## APPENDIX 2.12

*Index Numbers of Agricultural Productivity Punjab*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice	109.1	109.0	104.2	85.1	100.0	101.6	106.0	117.4	110.0	116.9	106.1	121.6	134.1
Jowar	101.8	121.1	80.2	73.0	100.0	218.0	107.3	126.6	107.2	112.5	95.6	98.6	108.1
Bajra	168.3	185.6	104.3	152.1	100.0	123.5	113.6	139.5	128.5	156.6	189.3	157.9	147.3
Maize	84.5	82.8	71.1	61.1	100.0	85.3	62.7	81.4	68.9	78.5	70.2	85.6	81.4
Small Millets	78.5	61.4	71.0	80.8	100.0	92.3	108.5	113.4	98.5	59.7	196.4	243.5	152.5
Wheat	106.3	102.5	105.8	90.7	100.0	97.8	104.4	99.5	116.7	119.4	117.3	116.5	133.3
Barley	99.3	106.7	96.9	98.5	100.0	95.3	92.6	90.5	84.1	94.4	101.2	84.5	127.1
<b>CEREALS</b>	96.9	96.8	96.9	87.5	100.0	99.1	99.6	105.1	110.9	118.5	117.5	122.3	133.3
Gram	94.7	112.4	89.9	85.9	100.0	92.3	118.7	84.1	104.5	95.4	105.3	64.9	99.3
Other Pulses	109.0	123.1	105.4	96.0	100.0	117.0	129.2	132.3	141.8	159.6	165.6	167.1	141.2
<b>PULSES</b>	93.5	111.1	91.2	87.2	100.0	94.3	121.3	87.4	108.1	99.7	109.6	69.9	102.8
<b>FOODGRAINS</b>	99.0	102.8	94.8	87.2	100.0	98.0	106.7	100.1	111.1	114.7	116.6	110.0	128.3

APPENDIX 2.12—contd.

Index Numbers of Agricultural Productivity—Punjab—contd.

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>II. NON-FOODGRAINS—</b>													
Groundnut . . . . .	90.0	91.6	91.2	90.2	100.0	96.9	107.5	107.5	113.6	112.5	111.5	107.4	156.3
Other Oilseeds . . . . .	90.2	104.2	92.9	95.1	100.0	98.6	111.7	110.1	131.3	143.3	147.8	58.6	134.0
<b>OILSEEDS . . . . .</b>	<b>91.3</b>	<b>101.7</b>	<b>91.9</b>	<b>93.8</b>	<b>100.0</b>	<b>98.0</b>	<b>110.9</b>	<b>110.7</b>	<b>128.4</b>	<b>137.2</b>	<b>140.4</b>	<b>75.7</b>	<b>150.4</b>
Cotton . . . . .	99.6	117.1	108.2	79.4	100.0	102.3	91.2	109.9	113.1	121.1	118.9	128.9	131.3
<b>FIBRES . . . . .</b>	<b>99.6</b>	<b>117.1</b>	<b>108.2</b>	<b>79.4</b>	<b>100.0</b>	<b>102.3</b>	<b>91.2</b>	<b>109.9</b>	<b>113.1</b>	<b>121.1</b>	<b>118.9</b>	<b>128.9</b>	<b>131.3</b>
Sugarcane (Gur) . . . . .	100.9	102.7	113.0	111.9	100.0	122.8	129.1	129.0	135.5	110.8	104.7	130.6	143.1
Potatoes . . . . .	76.6	64.5	77.5	75.8	100.0	94.7	93.5	93.0	100.8	85.8	104.7	99.6	101.4
Chillies (Dry) . . . . .	94.8	92.1	101.3	78.4	100.0	105.4	114.9	109.4	119.9	125.2	128.9	121.5	113.8
Tobacco . . . . .	66.7	57.2	66.7	57.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	80.0
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>95.3</b>	<b>85.2</b>	<b>105.5</b>	<b>99.4</b>	<b>100.0</b>	<b>118.0</b>	<b>124.7</b>	<b>123.1</b>	<b>127.9</b>	<b>108.3</b>	<b>116.7</b>	<b>131.6</b>	<b>138.3</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>103.3</b>	<b>107.5</b>	<b>101.4</b>	<b>88.4</b>	<b>100.0</b>	<b>107.7</b>	<b>108.1</b>	<b>124.2</b>	<b>131.7</b>	<b>123.4</b>	<b>121.9</b>	<b>122.0</b>	<b>143.9</b>
<b>ALL CROPS . . . . .</b>	<b>98.0</b>	<b>101.7</b>	<b>96.1</b>	<b>86.7</b>	<b>100.0</b>	<b>101.4</b>	<b>106.8</b>	<b>105.0</b>	<b>116.1</b>	<b>118.2</b>	<b>119.1</b>	<b>116.1</b>	<b>134.5</b>

NOTE—The index numbers for the year 1964-65 are based on 'Final Estimates' and are, therefore, subject to revision.

## APPENDIX 2-13

*Index Numbers of Area under Crops - Gujarat*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	85.9	89.4	94.1	81.7	100.0	90.4	89.5	105.0	97.8	103.3	96.7	95.3	97.5
Jowar . . . . .	118.8	111.6	98.2	110.5	100.0	95.3	102.9	97.4	92.3	91.7	92.8	91.4	95.4
Bajra . . . . .	140.2	140.9	121.3	109.2	100.0	100.2	99.6	81.4	86.2	86.5	78.6	71.8	80.9
Maize . . . . .	119.5	115.4	116.6	117.1	100.0	114.4	117.4	116.3	129.6	127.2	130.0	129.9	137.7
Ragi . . . . .	100.9	106.8	102.8	84.9	100.0	110.0	113.0	116.3	119.4	111.2	97.2	100.3	91.1
Small Millets (Kodra) . . . . .	155.2	145.5	139.0	109.9	100.0	98.9	98.8	91.9	99.8	101.5	95.5	87.8	88.5
<b>KHARIF CEREALS . . . . .</b>	<b>123.9</b>	<b>121.8</b>	<b>109.2</b>	<b>105.8</b>	<b>100.0</b>	<b>97.8</b>	<b>100.4</b>	<b>92.7</b>	<b>92.7</b>	<b>93.2</b>	<b>89.1</b>	<b>86.5</b>	<b>91.2</b>
Wheat . . . . .	65.9	80.6	75.1	94.7	100.0	67.8	77.9	117.1	66.5	78.3	75.8	77.4	82.5
Barley . . . . .	118.0	111.2	101.2	102.4	100.0	57.2	84.8	94.4	47.2	65.6	74.4	57.2	56.0
<b>RABI CEREALS . . . . .</b>	<b>66.9</b>	<b>81.1</b>	<b>75.5</b>	<b>94.9</b>	<b>100.0</b>	<b>67.5</b>	<b>78.0</b>	<b>116.7</b>	<b>66.2</b>	<b>78.1</b>	<b>75.8</b>	<b>77.0</b>	<b>82.0</b>
<b>CEREALS . . . . .</b>	<b>107.0</b>	<b>92.6</b>	<b>105.0</b>	<b>104.5</b>	<b>100.0</b>	<b>94.2</b>	<b>97.7</b>	<b>95.6</b>	<b>89.5</b>	<b>92.2</b>	<b>87.8</b>	<b>84.8</b>	<b>89.5</b>
Gram . . . . .	37.7	53.5	71.8	99.4	100.0	26.2	66.4	96.7	31.0	70.2	52.2	54.8	54.3
Tur . . . . .	98.8	123.3	126.1	105.8	100.0	104.4	113.2	111.0	117.0	129.8	121.0	115.3	119.1
<b>PULSES . . . . .</b>	<b>54.8</b>	<b>73.1</b>	<b>87.1</b>	<b>101.2</b>	<b>100.0</b>	<b>48.2</b>	<b>79.5</b>	<b>100.7</b>	<b>55.1</b>	<b>86.9</b>	<b>71.5</b>	<b>71.7</b>	<b>72.5</b>
<b>FOODGRAINS . . . . .</b>	<b>113.6</b>	<b>114.5</b>	<b>104.1</b>	<b>104.3</b>	<b>100.0</b>	<b>91.7</b>	<b>96.7</b>	<b>95.9</b>	<b>87.7</b>	<b>91.1</b>	<b>85.7</b>	<b>83.8</b>	<b>87.8</b>

APPENDIX 2.13—contd.

Index Numbers of Area under Crops—Gujarat— contd.

(Base: Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-6
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>II. NON-FOODGRAINS—</b>													
Groundnut . . . . .	57.8	54.8	92.4	71.4	100.0	121.5	125.9	150.3	158.9	181.7	164.7	148.0	164.1
Sesamum . . . . .	147.1	155.4	145.3	125.8	100.0	92.8	97.8	70.1	70.8	67.0	65.1	68.3	76.2
Rapeseed & Mustard . . . . .	32.8	39.6	57.1	98.1	100.0	66.2	66.5	89.7	61.4	57.6	48.0	50.5	54.4
Castorseed . . . . .	59.7	88.3	79.1	111.7	100.0	69.8	80.8	76.1	58.1	61.9	61.9	58.6	57.4
<b>OILSEEDS . . . . .</b>	<b>65.5</b>	<b>66.2</b>	<b>95.2</b>	<b>80.5</b>	<b>100.0</b>	<b>113.0</b>	<b>117.8</b>	<b>135.1</b>	<b>139.6</b>	<b>157.4</b>	<b>143.4</b>	<b>130.3</b>	<b>143.9</b>
Cotton . . . . .	60.6	66.4	84.0	95.4	100.0	100.3	96.8	81.4	98.2	92.5	93.7	91.9	94.7
<b>FIBRES . . . . .</b>	<b>60.6</b>	<b>66.4</b>	<b>84.0</b>	<b>95.4</b>	<b>100.0</b>	<b>100.3</b>	<b>96.8</b>	<b>81.4</b>	<b>98.2</b>	<b>92.5</b>	<b>93.7</b>	<b>91.9</b>	<b>94.7</b>
Sugarcane . . . . .	58.2	55.1	73.0	91.6	100.0	91.6	85.7	113.8	163.3	137.8	127.6	139.8	220.4
Tobacco . . . . .	86.5	85.0	75.8	97.7	100.0	85.8	93.1	127.1	120.5	119.9	120.6	98.9	103.2
Potatoes . . . . .	83.3	85.4	125.0	89.6	100.0	106.2	91.7	131.2	79.2	170.8	162.5	214.6	225.0
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>81.7</b>	<b>80.0</b>	<b>76.3</b>	<b>96.5</b>	<b>100.0</b>	<b>87.2</b>	<b>91.8</b>	<b>124.9</b>	<b>126.8</b>	<b>123.9</b>	<b>122.7</b>	<b>108.2</b>	<b>125.4</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>63.4</b>	<b>66.7</b>	<b>88.8</b>	<b>88.8</b>	<b>100.0</b>	<b>105.7</b>	<b>106.1</b>	<b>103.6</b>	<b>117.5</b>	<b>122.5</b>	<b>116.7</b>	<b>109.5</b>	<b>117.6</b>
<b>ALL CROPS . . . . .</b>	<b>92.4</b>	<b>94.3</b>	<b>97.6</b>	<b>97.8</b>	<b>100.0</b>	<b>97.6</b>	<b>100.7</b>	<b>100.4</b>	<b>100.3</b>	<b>104.4</b>	<b>98.8</b>	<b>94.8</b>	<b>100.5</b>

NOTE—Index numbers for the years 1962-63 to 1964-65 are generally based on 'Final Estimates' and are, therefore, subject to revision.

APPENDIX 2-14

Index Numbers of Agricultural Production Gujarat

(Base: Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS —</b>														
Rice . . . . .	7.56	43.7	9.6	91.8	64.0	100.0	55.5	109.9	120.7	74.1	130.1	96.1	123.2	119.5
Jowar . . . . .	8.77	84.2	96.7	87.7	73.6	100.0	78.6	98.7	72.2	56.1	81.2	113.6	103.4	108.1
Bajra . . . . .	10.08	152.3	191.7	177.4	113.6	100.0	143.8	173.0	64.4	117.	132.7	124.4	159.3	193.0
Maize . . . . .	1.72	97.5	279.4	237.7	219.2	100.0	249.8	337.0	119.4	339.6	374.6	338.7	299.2	377.6
Small Millets (Kodra) . . . . .	0.90	89.0	159.4	160.7	116.6	100.0	75.9	117.3	85.7	96.3	140.3	101.5	90.2	101.9
Ragi . . . . .	0.82	58.2	101.7	114.9	87.9	100.0	84.8	128.3	114.0	106.0	115.2	101.0	93.8	83.1
<b>KHARIF CEREALS . . . . .</b>	<b>29.85</b>	<b>97.1</b>	<b>140.6</b>	<b>130.6</b>	<b>94.8</b>	<b>100.0</b>	<b>104.7</b>	<b>141.7</b>	<b>86.1</b>	<b>100.3</b>	<b>130.6</b>	<b>125.1</b>	<b>137.9</b>	<b>154.3</b>
Wheat . . . . .	7.97	81.8	104.3	99.5	115.7	100.0	70.3	110.9	121.8	94.5	131.4	105.3	127.5	147.8
Barley . . . . .	0.09	128.3	132.1	122.6	101.9	100.0	66.0	73.6	79.2	43.4	69.8	66.0	49.1	47.2
<b>RABI CEREALS . . . . .</b>	<b>8.06</b>	<b>82.3</b>	<b>104.6</b>	<b>99.8</b>	<b>115.5</b>	<b>100.0</b>	<b>70.3</b>	<b>110.5</b>	<b>121.3</b>	<b>93.9</b>	<b>130.7</b>	<b>104.9</b>	<b>126.6</b>	<b>146.7</b>
<b>CEREALS . . . . .</b>	<b>37.91</b>	<b>94.0</b>	<b>132.9</b>	<b>124.1</b>	<b>99.2</b>	<b>100.0</b>	<b>97.4</b>	<b>135.1</b>	<b>93.6</b>	<b>98.9</b>	<b>130.6</b>	<b>120.8</b>	<b>135.5</b>	<b>152.7</b>
Gram . . . . .	1.30	26.3	46.6	76.6	91.1	100.0	17.9	84.2	110.5	27.0	73.6	65.7	77.5	79.9
Tur . . . . .	1.26	70.8	131.8	135.0	113.1	100.0	88.9	121.9	109.6	107.9	134.4	133.2	132.4	128.9
<b>PULSES . . . . .</b>	<b>2.56</b>	<b>48.2</b>	<b>88.5</b>	<b>105.3</b>	<b>101.9</b>	<b>100.0</b>	<b>52.8</b>	<b>102.8</b>	<b>110.1</b>	<b>66.8</b>	<b>103.5</b>	<b>98.9</b>	<b>104.5</b>	<b>104.0</b>
<b>FOODGRAINS . . . . .</b>	<b>40.47</b>	<b>91.1</b>	<b>130.1</b>	<b>122.9</b>	<b>99.4</b>	<b>100.0</b>	<b>94.6</b>	<b>133.1</b>	<b>94.6</b>	<b>96.9</b>	<b>128.9</b>	<b>119.4</b>	<b>133.5</b>	<b>149.6</b>

APPENDIX 2·14—*contd.*

*Index Numbers of Agricultural Production—Gujarat—contd.*

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>II. NON-FOODGRAINS —</b>														
Groundnut . . . . .	22·86	42·1	77·4	114·1	59·4	100·0	95·0	148·1	106·3	137·1	167·1	119·1	143·5	176·3
Sesamum . . . . .	1·06	124·7	182·6	179·1	125·5	100·0	89·8	114·5	73·6	71·1	86·0	82·6	89·8	99·6
Rapeseed & Mustard . . . . .	1·26	26·0	38·8	66·1	55·0	100·0	59·1	86·8	97·9	47·9	58·3	54·5	54·5	68·6
Castorseed . . . . .	1·21	47·7	93·5	94·1	101·1	100·0	70·3	87·6	72·9	47·5	62·1	61·9	54·5	58·2
<b>OILSEEDS . . . . .</b>	<b>26·39</b>	<b>44·9</b>	<b>80·5</b>	<b>113·5</b>	<b>63·8</b>	<b>100·0</b>	<b>91·9</b>	<b>141·0</b>	<b>103·1</b>	<b>126·1</b>	<b>153·8</b>	<b>111·9</b>	<b>133·0</b>	<b>162·7</b>
Cotton . . . . .	28·36	58·3	77·6	114·9	108·2	100·0	84·6	120·1	67·0	133·9	123·2	152·1	124·9	142·6
<b>FIGURES . . . . .</b>	<b>28·36</b>	<b>58·3</b>	<b>77·6</b>	<b>114·9</b>	<b>108·2</b>	<b>100·0</b>	<b>84·6</b>	<b>120·1</b>	<b>67·0</b>	<b>133·9</b>	<b>123·2</b>	<b>152·1</b>	<b>124·9</b>	<b>142·6</b>
Sugarcane (Gur) . . . . .	2·17	52·7	57·7	80·0	81·0	100·0	95·6	87·8	112·9	151·9	133·5	122·6	156·5	239·4
Tobacco . . . . .	2·43	81·4	89·7	67·7	91·5	100·0	52·2	131·7	105·5	117·7	152·8	175·5	127·7	141·7
Potatoes . . . . .	0·18	120·9	95·3	148·0	119·6	100·0	73·0	96·6	106·8	37·2	112·8	564·0	417·4	415·4
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>4·78</b>	<b>69·9</b>	<b>75·4</b>	<b>76·3</b>	<b>87·8</b>	<b>100·0</b>	<b>72·7</b>	<b>110·4</b>	<b>108·9</b>	<b>130·2</b>	<b>142·5</b>	<b>166·1</b>	<b>151·7</b>	<b>196·4</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>59·53</b>	<b>53·3</b>	<b>78·7</b>	<b>111·2</b>	<b>86·9</b>	<b>100·0</b>	<b>86·9</b>	<b>128·6</b>	<b>86·4</b>	<b>130·1</b>	<b>138·3</b>	<b>135·4</b>	<b>130·6</b>	<b>155·8</b>
<b>ALL CROPS . . . . .</b>	<b>100·00</b>	<b>68·6</b>	<b>99·5</b>	<b>115·9</b>	<b>92·0</b>	<b>100·0</b>	<b>90·0</b>	<b>130·4</b>	<b>89·7</b>	<b>116·7</b>	<b>134·5</b>	<b>128·9</b>	<b>131·8</b>	<b>153·3</b>

APPENDIX 2·15

*Index Numbers of Agricultural Productivity—Gujarat*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	50·9	104·7	97·6	78·3	100·0	61·4	122·8	115·0	75·8	125·9	99·4	129·3	122·6
Jowar . . . . .	70·9	86·6	89·3	66·6	100·0	82·5	95·9	74·1	60·8	88·5	122·4	109·5	113·3
Bajra . . . . .	108·6	136·1	146·2	104·0	100·0	143·5	173·7	79·1	136·2	153·4	158·3	221·9	238·6
Maize . . . . .	81·6	242·1	203·9	187·4	100·0	218·4	287·2	102·7	262·0	294·5	260·5	230·3	274·2
Ragi . . . . .	57·7	95·2	111·8	103·5	110·0	77·1	113·5	98·0	88·8	103·6	103·9	93·5	91·2
Small Millets (Kodra) . . . . .	57·3	109·6	115·6	106·1	100·0	76·7	118·7	93·3	96·5	138·2	106·3	102·7	115·1
<b>KHARIF CEREALS . . . . .</b>	<b>78·4</b>	<b>115·4</b>	<b>119·6</b>	<b>89·6</b>	<b>100·0</b>	<b>107·1</b>	<b>141·1</b>	<b>92·9</b>	<b>108·2</b>	<b>140·1</b>	<b>140·4</b>	<b>159·4</b>	<b>169·2</b>
Wheat . . . . .	124·1	129·4	132·5	122·2	100·0	103·7	142·4	104·0	142·1	167·8	138·9	164·7	179·2
Barley . . . . .	108·7	118·8	121·1	99·5	100·0	115·4	86·8	83·9	91·9	106·4	88·7	85·8	84·3
<b>RABI CEREALS . . . . .</b>	<b>123·0</b>	<b>129·0</b>	<b>132·2</b>	<b>121·7</b>	<b>100·0</b>	<b>104·1</b>	<b>141·7</b>	<b>103·9</b>	<b>141·8</b>	<b>167·3</b>	<b>138·4</b>	<b>164·4</b>	<b>178·9</b>
<b>CEREALS . . . . .</b>	<b>87·9</b>	<b>143·5</b>	<b>118·2</b>	<b>94·9</b>	<b>100·0</b>	<b>103·4</b>	<b>138·3</b>	<b>97·9</b>	<b>110·4</b>	<b>141·6</b>	<b>137·6</b>	<b>159·8</b>	<b>170·6</b>
Gram . . . . .	69·8	87·1	106·7	91·6	100·0	68·3	126·8	114·3	87·1	104·8	125·9	141·4	147·1
Tur . . . . .	71·7	106·9	107·1	106·9	100·0	85·2	107·7	98·7	92·2	103·5	110·1	114·8	108·2
<b>PULSES . . . . .</b>	<b>88·0</b>	<b>121·1</b>	<b>120·9</b>	<b>100·7</b>	<b>100·0</b>	<b>109·5</b>	<b>129·3</b>	<b>109·3</b>	<b>121·2</b>	<b>119·1</b>	<b>138·3</b>	<b>145·7</b>	<b>143·4</b>
<b>FOODGRAINS . . . . .</b>	<b>80·2</b>	<b>113·6</b>	<b>118·1</b>	<b>95·3</b>	<b>100·0</b>	<b>103·2</b>	<b>137·6</b>	<b>98·6</b>	<b>110·5</b>	<b>141·5</b>	<b>139·3</b>	<b>159·3</b>	<b>170·4</b>

APPENDIX 2.15—*contd.*

*Index Numbers of Agricultural Productivity—Gujarat—contd.*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>II. NON-FOODGRAINS</b>													
Groundnut . . . . .	72.8	141.2	123.5	83.2	100.0	78.2	117.6	70.7	86.3	92.0	72.3	97.0	107.4
Sesamum . . . . .	84.8	117.5	123.3	99.8	100.0	96.8	117.1	105.0	100.4	128.4	126.9	131.5	130.7
Rapeseed & Mustard . . . . .	79.3	98.0	115.8	56.1	100.0	89.3	130.5	109.1	78.0	101.2	113.5	107.9	126.1
Castorseed . . . . .	79.9	105.9	119.0	90.5	100.0	100.7	108.4	95.8	81.8	100.3	100.0	93.0	101.4
<b>OILSEEDS . . . . .</b>	<b>68.5</b>	<b>121.6</b>	<b>119.2</b>	<b>79.3</b>	<b>100.0</b>	<b>81.3</b>	<b>119.7</b>	<b>76.3</b>	<b>90.3</b>	<b>97.7</b>	<b>78.0</b>	<b>102.1</b>	<b>113.1</b>
Cotton . . . . .	96.2	116.9	136.8	113.4	100.0	84.3	125.1	82.3	136.4	133.2	162.3	135.9	150.6
<b>FIBRES . . . . .</b>	<b>96.2</b>	<b>116.9</b>	<b>136.8</b>	<b>113.4</b>	<b>100.0</b>	<b>84.3</b>	<b>125.1</b>	<b>82.3</b>	<b>136.4</b>	<b>133.2</b>	<b>162.3</b>	<b>135.9</b>	<b>150.6</b>
Sugarcane Gur . . . . .	90.5	104.7	109.6	88.4	100.0	104.4	102.5	99.2	93.0	96.9	96.1	111.9	108.6
Tobacco . . . . .	94.1	105.5	89.3	93.7	100.0	50.8	141.5	83.0	97.7	127.4	145.5	129.1	137.3
Potatoes . . . . .	145.1	111.6	118.4	133.5	100.0	68.7	105.3	81.4	47.0	66.0	347.1	194.5	184.6
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>85.6</b>	<b>94.3</b>	<b>100.0</b>	<b>91.0</b>	<b>100.0</b>	<b>83.4</b>	<b>120.3</b>	<b>87.2</b>	<b>102.7</b>	<b>115.0</b>	<b>135.4</b>	<b>140.2</b>	<b>156.6</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>84.1</b>	<b>118.0</b>	<b>125.2</b>	<b>97.9</b>	<b>100.0</b>	<b>82.2</b>	<b>121.2</b>	<b>81.0</b>	<b>110.6</b>	<b>112.9</b>	<b>116.</b>	<b>119.3</b>	<b>132.5</b>
<b>ALL CROPS . . . . .</b>	<b>74.2</b>	<b>105.5</b>	<b>118.8</b>	<b>94.1</b>	<b>100.0</b>	<b>92.2</b>	<b>129.5</b>	<b>89.3</b>	<b>116.4</b>	<b>128.8</b>	<b>130.5</b>	<b>139.0</b>	<b>152.5</b>

NOTE.—Index numbers for the years 1962-63 to 1964-65 are generally based on 'Final Estimates' and are, therefore, subject to revision.



APPENDIX 2-16

*Index Numbers of Area under Crops—Madras*

(Base: Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	75.3	89.8	93.2	95.3	100.0	97.8	98.1	100.0	108.7	109.6	115.2	113.2	114.0
Jowar . . . . .	98.3	107.8	98.2	101.4	100.0	93.7	105.8	103.8	104.2	103.4	100.3	101.3	101.2
Bajra . . . . .	108.3	131.6	112.8	104.9	100.0	89.8	92.6	96.1	90.3	90.2	87.0	90.3	89.4
Ragi . . . . .	97.9	109.7	103.7	97.3	100.0	96.6	102.3	103.2	101.9	94.2	95.9	94.4	94.9
Small Millets . . . . .	101.5	131.5	122.2	100.9	100.0	91.9	89.1	95.9	98.9	101.9	92.9	97.2	97.7
<b>KHARIF CEREALS . . . . .</b>	<b>87.9</b>	<b>104.1</b>	<b>100.5</b>	<b>98.3</b>	<b>100.0</b>	<b>95.4</b>	<b>98.1</b>	<b>100.0</b>	<b>104.1</b>	<b>104.1</b>	<b>105.2</b>	<b>105.1</b>	<b>105.4</b>
<b>CEREALS . . . . .</b>	<b>87.9</b>	<b>104.1</b>	<b>100.5</b>	<b>98.3</b>	<b>100.0</b>	<b>95.4</b>	<b>98.1</b>	<b>100.0</b>	<b>104.1</b>	<b>104.1</b>	<b>105.2</b>	<b>105.1</b>	<b>105.4</b>
Gram . . . . .	112.0	93.3	74.6	81.5	100.0	189.9	89.3	77.0	62.2	95.9	154.6	94.5	96.4
Tur . . . . .	106.8	138.4	124.7	121.3	100.0	105.7	115.4	115.6	112.4	106.8	109.8	109.5	107.9
Other Pulses . . . . .	90.2	99.6	89.9	93.1	100.0	102.0	87.6	92.4	91.3	86.7	84.1	88.7	87.5
<b>PULSES . . . . .</b>	<b>92.7</b>	<b>104.7</b>	<b>94.4</b>	<b>96.7</b>	<b>100.0</b>	<b>103.0</b>	<b>91.3</b>	<b>95.3</b>	<b>93.9</b>	<b>89.4</b>	<b>87.9</b>	<b>91.5</b>	<b>90.3</b>
<b>FOODGRAINS . . . . .</b>	<b>88.3</b>	<b>104.2</b>	<b>100.0</b>	<b>98.2</b>	<b>100.0</b>	<b>96.0</b>	<b>97.5</b>	<b>99.5</b>	<b>103.2</b>	<b>102.9</b>	<b>103.9</b>	<b>104.0</b>	<b>104.2</b>
<b>II. NON-FOODGRAINS</b>													
Groundnut . . . . .	101.5	73.1	102.5	98.5	100.0	105.5	109.7	113.4	118.2	120.4	128.1	125.2	126.1
Sesamum . . . . .	98.7	150.7	136.4	122.3	100.0	94.5	128.1	96.6	107.2	93.2	109.3	105.0	105.6
Castorseed . . . . .	115.4	115.4	134.7	118.7	100.0	100.8	99.2	102.2	107.8	109.0	103.4	119.3	112.4
<b>OILSEEDS . . . . .</b>	<b>101.2</b>	<b>84.3</b>	<b>107.5</b>	<b>102.0</b>	<b>100.0</b>	<b>103.9</b>	<b>112.1</b>	<b>111.0</b>	<b>116.6</b>	<b>116.6</b>	<b>125.3</b>	<b>122.5</b>	<b>123.2</b>
Cotton . . . . .	68.1	84.6	93.1	104.3	100.0	95.8	93.9	93.4	91.9	90.9	87.3	97.3	98.5
<b>FIBRES . . . . .</b>	<b>68.1</b>	<b>84.6</b>	<b>93.1</b>	<b>104.3</b>	<b>100.0</b>	<b>95.8</b>	<b>93.9</b>	<b>94.3</b>	<b>91.9</b>	<b>90.9</b>	<b>87.3</b>	<b>97.3</b>	<b>98.5</b>

APPENDIX 2.16—*contd.*

*Index Numbers of Area under Crops—Madras—contd.*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>II. NON-FOODGRAINS—contd.</i>													
Tea . . . . .	104.3	103.9	102.8	97.6	100.0	99.7	103.8	104.2	103.5	103.9	104.8	104.5	106.1
Coffee . . . . .	95.3	86.8	93.8	92.9	100.0	101.2	99.5	104.5	99.3	109.1	105.3	108.0	113.5
Rubber . . . . .	104.4	103.4	102.7	100.6	100.0	96.7	97.6	97.0	103.7	99.9	108.0	130.4	132.1
<b>PLANTATION CROPS</b> . . . . .	<b>101.4</b>	<b>97.7</b>	<b>99.6</b>	<b>96.1</b>	<b>100.0</b>	<b>100.0</b>	<b>101.8</b>	<b>103.8</b>	<b>101.8</b>	<b>105.4</b>	<b>105.1</b>	<b>107.3</b>	<b>110.3</b>
Sugarcane . . . . .	64.4	71.4	108.9	105.6	100.0	124.9	118.0	126.7	174.6	162.7	118.9	175.0	178.9
Chillies . . . . .	69.6	81.9	106.5	97.7	100.0	106.2	100.8	112.0	124.9	108.5	117.3	123.9	131.1
Pepper . . . . .	73.5	77.3	79.2	81.1	100.0	98.1	101.8	135.7	88.6	94.3	80.0	139.6	145.3
Tobacco . . . . .	88.9	78.5	84.7	138.7	100.0	51.4	76.5	87.9	100.1	87.7	95.0	96.0	86.7
Potatoes . . . . .	88.6	88.6	84.1	93.5	100.0	91.0	109.7	116.3	114.4	100.8	86.3	103.6	96.6
<b>MISCELLANEOUS</b> . . . . .	<b>71.9</b>	<b>78.3</b>	<b>102.6</b>	<b>106.1</b>	<b>100.0</b>	<b>103.7</b>	<b>103.8</b>	<b>113.9</b>	<b>137.7</b>	<b>123.7</b>	<b>112.5</b>	<b>136.2</b>	<b>138.9</b>
<b>NON-FOODGRAINS</b> . . . . .	<b>88.9</b>	<b>84.2</b>	<b>102.8</b>	<b>102.9</b>	<b>100.0</b>	<b>101.4</b>	<b>105.7</b>	<b>106.2</b>	<b>110.8</b>	<b>109.4</b>	<b>112.4</b>	<b>115.8</b>	<b>116.9</b>
<b>ALL CROPS†</b> . . . . .	<b>88.4</b>	<b>99.5</b>	<b>100.6</b>	<b>99.3</b>	<b>100.0</b>	<b>97.3</b>	<b>99.4</b>	<b>101.1</b>	<b>105.0</b>	<b>104.4</b>	<b>105.8</b>	<b>106.7</b>	<b>107.1</b>

†Excludes coconut, tamarind, banana, citrus, mangoes, onions, tapioca and sweet potatoes which are included in the series constructed by the State Government.

NOTE.—The indices for the years 1963-64 and 1964-65 are generally based on 'Partially Revised Estimate' and 'Final Estimates' respectively, and are, therefore, subject to revision.

## APPENDIX 2·17

### *Index Numbers of Agricultural Production— Madras*

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS</b>														
Rice . . .	45·67	62·2	79·5	86·2	92·5	100·0	101·2	96·4	102·6	109·6	120·3	123·6	120·6	124·7
Jowar . . .	4·57	61·1	87·6	112·5	101·3	100·0	113·1	116·7	131·5	131·5	125·2	122·9	121·3	122·5
Bajra . . .	2·24	82·7	104·4	119·0	101·1	100·0	118·1	122·8	133·0	128·5	130·4	135·9	134·9	130·9
Ragi . . .	3·04	75·6	94·1	122·0	93·8	100·0	96·0	99·1	105·3	100·8	94·8	98·0	93·8	94·9
Small Millets . . .	2·47	80·4	138·1	128·5	99·5	100·0	89·4	87·5	99·2	104·1	105·4	94·3	97·4	97·7
<b>KHARIF CEREALS . . .</b>	<b>57·99</b>	<b>64·4</b>	<b>84·4</b>	<b>93·2</b>	<b>93·9</b>	<b>100·0</b>	<b>102·0</b>	<b>98·8</b>	<b>106·0</b>	<b>111·4</b>	<b>119·1</b>	<b>121·7</b>	<b>118·8</b>	<b>122·1</b>
<b>CEREALS . . .</b>	<b>57·99</b>	<b>64·4</b>	<b>84·4</b>	<b>93·2</b>	<b>93·9</b>	<b>100·0</b>	<b>102·0</b>	<b>98·8</b>	<b>106·0</b>	<b>111·4</b>	<b>119·1</b>	<b>121·7</b>	<b>118·8</b>	<b>122·1</b>
Gram . . .	0·01	85·4	66·6	67·5	80·3	100·0	188·9	78·6	76·0	61·5	94·0	149·5	91·8	94·7
Tur . . .	0·25	80·7	130·1	121·6	114·8	100·0	106·7	108·1	114·6	113·0	106·9	111·4	87·2	87·3
Other Pulses . . .	0·70	75·6	100·0	94·1	93·9	100·0	108·4	93·9	99·0	98·7	85·7	86·6	80·1	78·6
<b>PULSES . . .</b>	<b>0·96</b>	<b>77·0</b>	<b>107·5</b>	<b>101·0</b>	<b>99·2</b>	<b>100·0</b>	<b>108·8</b>	<b>97·4</b>	<b>102·8</b>	<b>102·0</b>	<b>91·3</b>	<b>93·7</b>	<b>82·1</b>	<b>81·0</b>
<b>FOODGRAINS . . .</b>	<b>58·95</b>	<b>64·6</b>	<b>84·8</b>	<b>93·3</b>	<b>94·0</b>	<b>100·0</b>	<b>102·1</b>	<b>98·8</b>	<b>105·9</b>	<b>111·2</b>	<b>118·6</b>	<b>121·2</b>	<b>118·2</b>	<b>121·4</b>

APPENDIX 2·17—*contd.*

*Index Numbers of Agricultural Production—Madras— contd.*

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>II. NON-FOODGRAINS—</b>														
Groundnut . . . . .	11·72	78·5	69·9	98·1	95·1	100·0	104·8	106·6	113·1	119·7	122·6	129·7	125·8	126·1
Sesamum . . . . .	1·04	76·6	140·8	134·0	116·9	100·0	94·8	124·2	97·2	108·5	93·3	113·5	110·2	111·1
Castorseed . . . . .	0·08	93·0	116·3	139·6	116·3	100·0	94·9	95·8	103·0	108·2	109·2	104·3	123·4	114·1
<b>OILSEEDS . . . . .</b>	<b>12·84</b>	<b>78·4</b>	<b>75·9</b>	<b>101·3</b>	<b>97·0</b>	<b>100·0</b>	<b>103·9</b>	<b>107·9</b>	<b>111·7</b>	<b>118·7</b>	<b>120·1</b>	<b>128·2</b>	<b>124·5</b>	<b>124·8</b>
Cotton . . . . .	4·08	62·8	77·7	88·4	91·6	100·0	102·0	107·9	114·1	110·2	113·2	104·3	120·3	129·1
<b>FIBRES . . . . .</b>	<b>4·08</b>	<b>62·8</b>	<b>77·7</b>	<b>88·4</b>	<b>91·6</b>	<b>100·0</b>	<b>102·0</b>	<b>107·9</b>	<b>114·1</b>	<b>110·2</b>	<b>113·2</b>	<b>104·3</b>	<b>120·3</b>	<b>129·1</b>
Tea . . . . .	3·60	88·5	92·1	97·0	105·0	100·0	116·2	127·4	133·8	130·6	130·1	125·4	127·9	118·6
Coffee . . . . .	0·37	157·9	161·3	113·9	99·2	100·0	146·6	180·8	110·1	176·3	107·9	91·0	104·5	112·3
Rubber . . . . .	0·19	52·7	64·1	59·9	59·3	100·0	98·8	97·6	102·4	102·4	115·0	140·2	125·8	177·4
<b>PLANTATION CROPS . . . . .</b>	<b>4·16</b>	<b>93·0</b>	<b>96·9</b>	<b>96·8</b>	<b>102·4</b>	<b>100·0</b>	<b>118·1</b>	<b>130·8</b>	<b>130·2</b>	<b>133·4</b>	<b>127·4</b>	<b>123·0</b>	<b>125·7</b>	<b>120·7</b>
Sugarcane (Gur) . . . . .	3·57	60·7	71·7	110·0	102·6	100·0	123·5	116·8	118·4	175·1	161·4	118·6	172·9	174·3
Chillies (Dry) . . . . .	3·63	66·4	87·7	116·1	101·3	100·0	103·9	98·5	110·6	132·3	110·3	125·3	127·8	134·7
Peppe (Black) . . . . .	0·01	75·0	75·0	75·0	75·0	100·0	100·0	100·0	125·0	75·0	100·0	75·0	150·0	150·0
Tobacco . . . . .	1·81	66·3	78·5	78·3	130·3	100·0	51·3	75·1	84·0	103·0	89·9	62·9	96·6	87·6
Potatoes . . . . .	0·62	83·4	85·3	75·1	83·3	100·0	93·3	106·0	118·1	118·1	93·7	81·0	85·9	83·5
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>9·64</b>	<b>65·4</b>	<b>79·9</b>	<b>104·1</b>	<b>106·0</b>	<b>100·0</b>	<b>100·6</b>	<b>101·4</b>	<b>109·0</b>	<b>141·7</b>	<b>124·3</b>	<b>108·2</b>	<b>136·0</b>	<b>137·2</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>30·72</b>	<b>74·2</b>	<b>80·2</b>	<b>99·8</b>	<b>99·8</b>	<b>100·0</b>	<b>104·5</b>	<b>109·0</b>	<b>113·6</b>	<b>126·8</b>	<b>121·5</b>	<b>118·0</b>	<b>127·7</b>	<b>128·7</b>
<b>ALL CROPS† . . . . .</b>	<b>89·67</b>	<b>67·9</b>	<b>83·2</b>	<b>95·5</b>	<b>96·0</b>	<b>100·0</b>	<b>102·9</b>	<b>102·3</b>	<b>108·5</b>	<b>116·5</b>	<b>119·6</b>	<b>120·1</b>	<b>121·5</b>	<b>123·9</b>

†Excludes coconut, tamarind, banana, citrus, Mangoes, onions, tapioca and sweet potatoes, which are included in the series constructed by the State Government.

NOTE.—The indices for the years 1963-64 and 1964-65 are generally based on "Partially Revised Estimates" and 'Final Estimates' respectively and are, therefore, subject to revision.

## APPENDIX 2-18

### *Index Numbers of Agricultural Productivity—Madras*

(Base : Agricultural Year 1956-57=100)

Corp/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	82.6	88.5	92.5	97.1	100.0	103.5	98.3	102.6	100.8	109.8	107.6	106.5	109.4
Jowar . . . . .	62.2	81.3	114.6	99.9	100.0	120.7	110.3	126.7	126.2	121.1	122.5	119.6	121.1
Bajra . . . . .	76.4	79.3	105.5	96.4	100.0	131.5	132.6	138.4	142.3	144.6	156.2	149.4	146.4
Ragi . . . . .	77.2	85.8	117.6	96.4	100.0	99.4	96.9	102.0	98.9	100.6	102.2	99.4	100.0
Small Millets . . . . .	79.2	105.0	105.2	98.6	100.0	97.3	98.2	103.4	105.3	103.4	101.5	100.2	100.0
<b>KHARIF CEREALS . . . . .</b>	<b>73.3</b>	<b>81.1</b>	<b>92.7</b>	<b>95.5</b>	<b>100.0</b>	<b>106.9</b>	<b>100.7</b>	<b>106.0</b>	<b>107.0</b>	<b>114.4</b>	<b>115.7</b>	<b>113.0</b>	<b>115.8</b>
<b>CEREALS . . . . .</b>	<b>73.3</b>	<b>81.1</b>	<b>92.7</b>	<b>95.5</b>	<b>100.0</b>	<b>106.9</b>	<b>100.7</b>	<b>106.0</b>	<b>107.0</b>	<b>114.4</b>	<b>115.7</b>	<b>113.0</b>	<b>115.8</b>
Gram . . . . .	76.3	71.4	90.5	98.5	100.0	99.5	88.0	98.7	98.9	98.0	96.7	96.6	98.2
Tur . . . . .	75.6	94.0	97.5	94.6	100.0	100.9	93.7	99.1	100.5	100.0	101.5	79.6	80.9
Other Pulses . . . . .	74.2	89.0	92.7	89.3	100.0	94.1	94.8	94.9	95.7	87.5	103.0	90.3	89.8
<b>PULSES . . . . .</b>	<b>83.1</b>	<b>102.7</b>	<b>107.0</b>	<b>102.6</b>	<b>100.0</b>	<b>105.6</b>	<b>106.7</b>	<b>108.0</b>	<b>108.7</b>	<b>92.7</b>	<b>106.6</b>	<b>89.7</b>	<b>89.7</b>
<b>FOODGRAINS . . . . .</b>	<b>73.2</b>	<b>81.4</b>	<b>93.3</b>	<b>95.7</b>	<b>100.0</b>	<b>106.4</b>	<b>101.3</b>	<b>106.4</b>	<b>107.8</b>	<b>115.3</b>	<b>116.8</b>	<b>113.7</b>	<b>116.5</b>
<b>II. NON-FOODGRAINS—</b>													
Groundnut . . . . .	77.3	95.6	95.7	96.5	100.0	99.3	97.2	99.7	101.3	101.8	101.2	100.5	100.0
Sesamum . . . . .	77.6	93.4	98.2	95.6	100.0	100.3	97.0	100.6	101.2	100.1	103.8	105.0	105.2
Castorseed . . . . .	80.6	100.8	103.6	98.0	100.0	94.1	96.6	100.8	100.4	100.2	100.9	103.4	101.5
<b>OILSEEDS . . . . .</b>	<b>77.5</b>	<b>90.0</b>	<b>94.2</b>	<b>95.1</b>	<b>100.0</b>	<b>100.0</b>	<b>96.3</b>	<b>100.6</b>	<b>101.8</b>	<b>103.0</b>	<b>102.3</b>	<b>101.6</b>	<b>101.3</b>

APPENDIX 2.18—*contd.*

*Index Numbers of Agricultural Productivity—Madras—contd.*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>II. NON-FOODGRAINS—<i>contd.</i></b>													
Cotton . . . . .	92.2	91.8	95.0	87.8	100.0	106.5	114.9	121.0	119.9	124.5	119.5	123.6	131.1
<b>FIBRES</b> . . . . .	92.2	91.8	95.0	87.8	100.0	106.5	114.9	121.0	119.9	124.5	119.5	123.6	131.1
Tea . . . . .	84.9	88.6	94.4	107.6	100.0	116.5	122.7	128.4	126.2	125.2	119.7	122.4	111.8
Coffee . . . . .	165.7	185.8	121.4	106.8	100.0	144.9	181.7	105.4	177.5	98.9	86.4	96.8	98.9
Rubber . . . . .	50.5	62.0	58.3	58.9	100.0	102.2	100.0	105.6	98.7	115.1	129.8	96.5	134.3
<b>PLANTATION CROPS</b> . . . . .	91.7	99.3	97.2	106.6	100.0	118.1	128.5	125.5	131.0	120.9	117.0	117.1	109.4
Sugarcane (Gur) . . . . .	94.3	100.4	101.0	97.2	100.0	98.9	99.0	93.4	100.3	99.2	99.7	98.8	97.4
Chillies (Dry) . . . . .	95.4	107.1	109.0	103.7	100.0	97.8	97.7	98.8	105.9	101.7	106.8	103.1	102.7
Pepper (Black) . . . . .	102.0	97.0	94.7	92.5	100.0	101.9	98.2	92.1	84.7	106.0	93.8	107.4	103.2
Tobacco . . . . .	74.6	100.0	92.4	93.9	100.0	99.8	98.2	95.6	102.9	102.5	66.2	100.0	101.0
Potatoes . . . . .	94.1	96.3	89.3	89.1	100.0	102.5	96.6	101.5	103.2	93.0	93.9	82.9	86.4
<b>MISCELLANEOUS CROPS</b> . . . . .	91.0	102.0	101.5	99.9	100.0	97.0	97.7	95.7	102.9	100.5	96.2	99.8	98.8
<b>NON-FOODGRAINS</b> . . . . .	83.4	95.2	97.1	97.0	100.0	103.1	103.1	107.0	114.4	111.1	105.0	110.3	110.1
<b>ALL CROPS*</b> . . . . .	76.8	83.6	94.9	96.7	100.0	105.8	102.9	107.3	111.0	114.6	113.5	113.9	115.7

\*Excludes coconut, tamarind, banana, citrus, mangoes, onions, tapioca and sweet potatoes, which are included in the series constructed by the State Government.

NOTE.—The indices for the years 1963-64 and 1964-65 are generally based on 'Partially Revised Estimates' and 'Final Estimates' respectively.

The indices for these years are, therefore, subject to revision.

APPENDIX 2.19

*Index Numbers of Area under Crops—Mysore*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	90.2	96.0	98.4	93.1	100.0	101.7	106.1	107.2	109.1	112.1	115.2	109.2	111.2
Jowar . . . . .	98.2	95.0	97.8	102.7	100.0	104.6	107.7	111.3	114.6	113.8	117.7	112.3	111.3
Bajra . . . . .	79.0	99.5	105.2	106.1	100.0	94.4	96.9	91.8	93.6	96.9	98.6	90.2	92.5
Maize . . . . .	104.0	108.0	108.0	120.0	100.0	104.0	104.0	116.0	112.0	128.0	136.0	140.0	132.0
Ragi . . . . .	92.7	101.0	101.7	96.8	100.0	99.8	106.4	103.7	103.5	106.9	108.8	101.0	101.2
Small Millet . . . . .	86.9	119.8	119.7	106.3	100.0	94.3	96.0	100.6	90.4	92.8	107.9	76.3	77.0
<b>KHARIF CEREALS . . . . .</b>	<b>92.9</b>	<b>98.6</b>	<b>101.1</b>	<b>100.7</b>	<b>100.0</b>	<b>101.4</b>	<b>105.1</b>	<b>106.4</b>	<b>107.5</b>	<b>108.8</b>	<b>113.0</b>	<b>104.5</b>	<b>104.7</b>
Wheat . . . . .	93.5	92.8	87.1	99.5	100.0	100.9	100.1	95.0	104.7	100.1	102.7	101.4	102.2
Barley . . . . .	116.7	216.7	183.3	100.0	100.0	100.0	50.0	50.0	33.3	33.3	33.3	83.3	83.3
<b>RABI CEREALS . . . . .</b>	<b>93.6</b>	<b>93.8</b>	<b>87.8</b>	<b>99.5</b>	<b>100.0</b>	<b>100.8</b>	<b>99.7</b>	<b>94.7</b>	<b>104.2</b>	<b>99.6</b>	<b>102.2</b>	<b>101.2</b>	<b>102.0</b>
<b>CEREALS . . . . .</b>	<b>93.0</b>	<b>98.4</b>	<b>100.4</b>	<b>100.7</b>	<b>100.0</b>	<b>101.4</b>	<b>104.8</b>	<b>105.8</b>	<b>107.3</b>	<b>108.3</b>	<b>112.4</b>	<b>104.3</b>	<b>104.5</b>

APPENDIX 2.19—contd.

Index Numbers of Area under Crops—Mysore—contd.

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
I	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—contd.</b>													
Gram . . . . .	97.7	101.8	95.9	104.1	100.0	100.5	97.5	96.7	90.2	98.0	95.4	90.8	90.1
Tur . . . . .	83.4	95.0	87.5	103.1	100.0	97.9	99.9	99.2	101.8	102.4	98.1	83.9	85.0
Other Pulses . . . . .	84.3	88.5	98.3	105.2	100.0	100.3	102.4	98.8	98.7	98.6	99.1	93.9	92.5
<b>PULSES . . . . .</b>	<b>85.8</b>	<b>91.5</b>	<b>95.6</b>	<b>104.6</b>	<b>100.0</b>	<b>99.8</b>	<b>101.2</b>	<b>98.6</b>	<b>99.5</b>	<b>99.4</b>	<b>98.4</b>	<b>91.4</b>	<b>90.6</b>
<b>FOODGRAINS . . . . .</b>	<b>91.7</b>	<b>97.1</b>	<b>99.5</b>	<b>101.4</b>	<b>100.0</b>	<b>101.1</b>	<b>104.2</b>	<b>104.5</b>	<b>105.9</b>	<b>106.7</b>	<b>109.9</b>	<b>101.9</b>	<b>102.0</b>
<b>II. NON-FOODGRAINS—</b>													
Groundnut . . . . .	84.2	81.0	90.9	89.3	100.0	104.3	100.6	102.7	97.5	96.1	92.7	93.7	92.7
Sesamum . . . . .	143.1	166.0	139.2	137.9	100.0	111.8	111.1	110.5	102.6	107.2	108.5	94.1	97.4
Rapeseed & Mustard . . . . .	108.3	91.7	108.3	158.3	100.0	91.7	175.0	250.0	183.3	183.3	116.7	58.3	58.3
Linseed . . . . .	86.8	73.6	81.9	80.6	100.0	99.3	72.2	77.1	82.6	81.9	84.0	81.9	81.2
Castorseed . . . . .	109.7	111.5	105.3	99.1	100.0	95.6	90.3	91.2	92.0	87.6	83.2	79.6	76.1
<b>OILSEEDS . . . . .</b>	<b>88.8</b>	<b>86.6</b>	<b>93.8</b>	<b>92.2</b>	<b>100.0</b>	<b>104.0</b>	<b>99.6</b>	<b>102.0</b>	<b>97.2</b>	<b>96.1</b>	<b>92.9</b>	<b>92.4</b>	<b>91.5</b>



Cotton	. . . . .	67.0	78.1	83.8	97.3	100.0	92.5	91.0	87.2	83.1	84.0	84.1	87.6	87.4
Mesta	. . . . .	56.2	119.2	53.4	105.5	100.0	100.0	94.5	82.2	80.8	79.5	79.5	80.9	79.5
<b>FIBRES</b>	. . . . .	66.7	79.1	83.0	97.5	100.0	92.7	91.1	87.1	83.0	83.9	84.0	87.4	87.2
Tea	. . . . .	80.0	80.0	80.0	100.0	100.0	80.0	80.0	80.0	80.0	80.0	100.0	100.0	100.0
Coffee	. . . . .	101.9	102.6	104.5	107.7	100.0	100.6	114.1	116.7	119.2	124.3	132.1	133.3	133.3*
Rubber	. . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>PLANTATION CROPS</b>	. . . . .	101.2	101.8	103.6	107.3	100.0	100.0	112.7	115.2	117.6	122.4	130.3	131.5	131.5*
Sugarcane	. . . . .	76.9	83.6	83.6	92.5	100.0	107.5	109.0	117.2	133.6	143.2	136.6	142.5	141.8
Tobacco	. . . . .	86.4	104.5	93.6	93.6	100.0	100.9	80.9	90.0	86.4	89.1	85.5	82.7	82.7
Potatoes	. . . . .	80.0	73.3	66.7	106.7	100.0	100.0	113.3	126.7	113.3	120.0	133.3	120.0	120.0
Chillies	. . . . .	92.5	99.2	106.4	97.0	100.0	102.6	90.9	97.4	101.9	92.8	95.1	92.1	91.7
Pepper	. . . . .	100.0	100.0	100.0	100.0	100.0	116.7	116.7	116.7	100.0	100.0	100.0	116.7	116.7
<b>MISCELLANEOUS CROPS</b>	. . . . .	87.0	95.7	96.8	95.5	100.0	103.6	94.3	101.9	107.1	105.8	104.9	104.1	103.7
<b>NON-FOODGRAINS</b>	. . . . .	78.7	84.3	89.3	95.4	100.0	98.6	95.5	95.4	91.9	91.9	90.7	92.0	91.5
<b>ALL CROPS†</b>	. . . . .	88.2	93.7	96.8	99.8	100.0	100.4	101.8	102.0	102.1	102.8	104.8	99.3	99.2

\*Provisional.

†Excludes plantains, onions, sweet potatoes, coconut, arccanut, turmeric, cardamom and garlic, which are included in the series constructed by the State Government.

NOTE.—The indices for the years 1963-64 and 1964-65 are generally based on 'Partially Revised Estimates' and 'Final Estimates' respectively and are, therefore, subject to revision.

APPENDIX 2.20

*Index Numbers of Agricultural Production—Mysore*

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS—</b>														
Rice . . .	26.10	78.1	94.9	92.6	110.7	100.0	111.3	125.3	131.1	124.2	135.8	141.4	130.4	152.0
Jowar . . .	11.57	118.7	121.9	160.1	111.6	100.0	135.0	124.1	137.6	136.1	131.2	160.0	162.0	172.7
Bajra . . .	1.43	88.3	121.6	115.3	139.6	100.0	71.2	110.8	95.5	114.4	88.3	116.2	136.9	101.8
Maize . . .	0.10	50.0	87.5	62.5	75.0	100.0	112.5	112.5	125.0	150.0	162.5	125.0	137.5	137.5
Ragi . . .	8.98	49.7	94.0	81.4	118.9	100.0	102.1	107.1	108.6	99.2	109.8	114.2	108.7	101.5
Small Millets . . .	1.50	58.5	121.1	135.9	106.3	100.0	100.7	93.7	99.3	85.9	113.4	102.8	90.1	90.1
<b>KHARIF CEREALS . . .</b>	<b>49.77</b>	<b>82.0</b>	<b>102.6</b>	<b>108.2</b>	<b>113.0</b>	<b>100.0</b>	<b>113.7</b>	<b>120.3</b>	<b>126.5</b>	<b>121.0</b>	<b>128.0</b>	<b>138.8</b>	<b>132.7</b>	<b>144.3</b>
Wheat . . .	1.61	90.8	115.4	116.9	104.6	100.0	115.4	110.5	103.9	125.3	113.7	141.7	154.9	189.6
Barley . . .	0.02	296.5	370.6	148.3	148.3	100.0	97.6	38.2	58.5	36.0	28.5	25.7	71.1	73.7
<b>RABI CEREALS . . .</b>	<b>1.63</b>	<b>93.3</b>	<b>118.5</b>	<b>117.3</b>	<b>105.1</b>	<b>100.0</b>	<b>115.2</b>	<b>109.6</b>	<b>103.3</b>	<b>124.2</b>	<b>112.7</b>	<b>140.3</b>	<b>153.9</b>	<b>188.2</b>
<b>(CEREALS . . .</b>	<b>51.40</b>	<b>82.4</b>	<b>103.1</b>	<b>108.5</b>	<b>112.7</b>	<b>100.0</b>	<b>113.7</b>	<b>120.0</b>	<b>125.8</b>	<b>121.1</b>	<b>127.5</b>	<b>138.8</b>	<b>133.4</b>	<b>145.7</b>
Gram . . .	0.79	100.0	137.5	132.5	127.5	100.0	130.0	154.6	147.6	189.8	158.2	154.6	144.1	161.6
Tur . . .	1.40	102.6	126.9	123.1	125.6	100.0	97.4	60.8	106.0	85.9	105.0	81.1	86.8	76.3
Other Pulses . . .	3.86	70.4	88.8	145.4	114.3	100.0	102.0	106.6	98.0	103.1	106.6	104.1	95.4	98.0
<b>PULSES . . .</b>	<b>6.05</b>	<b>81.7</b>	<b>104.0</b>	<b>138.6</b>	<b>118.6</b>	<b>100.0</b>	<b>104.6</b>	<b>103.7</b>	<b>106.3</b>	<b>110.4</b>	<b>113.0</b>	<b>105.4</b>	<b>99.8</b>	<b>101.3</b>
<b>FOODGRAINS . . .</b>	<b>57.45</b>	<b>82.3</b>	<b>103.2</b>	<b>111.7</b>	<b>113.3</b>	<b>100.0</b>	<b>112.7</b>	<b>118.3</b>	<b>123.7</b>	<b>120.0</b>	<b>126.0</b>	<b>135.3</b>	<b>129.9</b>	<b>141.0</b>

ii. NON-FOODGRAINS—

Groundnut . . . . .	11.89	51.9	73.6	68.8	94.0	100.0	109.0	95.2	76.4	60.8	60.9	67.8	72.2	102.9
Sesamum . . . . .	0.28	127.3	154.5	163.6	154.5	100.0	145.5	127.3	109.1	100.0	118.2	218.2	154.5	127.3
Rapeseed & Mustard . . . . .	0.03	200.0	200.0	200.0	200.0	100.0	100.0	200.0	200.0	200.0	200.0	100.0	100.0	100.0
Linseed . . . . .	0.22	100.0	88.9	111.1	77.8	100.0	133.3	88.9	88.9	111.1	133.3	133.3	80.0	80.0
Castorseed . . . . .	0.18	110.0	90.0	80.0	80.0	100.0	90.0	120.0	120.0	100.0	110.0	110.0	100.0	100.0
OILSEEDS . . . . .	12.60	55.6	76.2	72.1	95.1	100.0	109.9	96.4	78.3	63.4	64.5	73.0	74.8	103.0
Cotton . . . . .	3.07	70.5	94.8	88.3	97.3	100.0	112.8	94.0	95.0	96.8	115.8	102.0	101.0	103.8
Mesta . . . . .	0.01	55.7	124.3	70.0	97.1	100.0	95.7	94.3	84.3	78.6	85.7	85.7	85.7	80.0
FIBRES . . . . .	3.08	70.5	94.9	88.2	97.3	100.0	112.7	94.0	95.0	96.7	115.7	101.9	100.9	103.7
Tea . . . . .	0.17	68.2	87.8	91.4	98.7	100.0	203.6	140.4	129.7	142.9	150.7	154.9	182.9	154.4
Coffee . . . . .	4.57	53.8	69.2	80.8	73.1	100.0	111.5	119.2	126.9	119.2	111.5	115.4	123.1	123.1*
Rubber . . . . .	0.12	95.3	97.5	102.6	113.6	100.0	104.1	123.1	125.1	134.3	113.7	108.1	115.2	115.4
PLANTATION CROPS . . . . .	4.86	55.3	70.5	81.7	75.0	100.0	114.5	120.0	127.0	120.4	112.9	116.6	125.0	124.0*
Sugarcane (Gur) . . . . .	6.44	54.9	74.3	79.4	90.3	100.0	106.8	103.0	120.5	141.6	158.2	158.7	181.2	170.4
Tobacco . . . . .	2.76	94.4	122.2	100.0	88.9	100.0	111.1	116.7	127.8	127.8	133.3	138.9	116.7	116.7
Potato . . . . .	0.64	35.7	32.1	42.9	71.4	100.0	100.0	135.7	200.0	153.6	139.3	153.6	107.1	114.3
Chillies (Dry) . . . . .	0.83	134.6	134.6	157.7	115.4	100.0	100.0	88.5	103.8	111.5	103.8	126.9	115.4	111.5
Pepper (Black) . . . . .	0.12	105.3	105.3	94.7	113.2	100.0	114.5	151.3	139.5	146.1	148.7	164.5	207.9	207.9
MISCELLANEOUS CROPS . . . . .	10.79	70.6	89.0	88.7	91.0	100.0	107.1	107.9	126.0	136.5	146.4	151.0	155.5	149.2
NON-FOODGRAINS . . . . .	31.33	62.2	81.6	80.9	90.8	100.0	109.9	103.8	103.9	100.7	105.2	109.5	112.9	122.2
ALL CROPS† . . . . .	88.78	75.2	95.6	100.8	105.4	100.0	111.7	113.2	116.7	113.2	118.7	126.2	123.9	134.4

\*Provisional.

†Excludes plantains, onions, sweet potatoes, coconut, arecanut, turmeric, cardamom and garlic which are included in the series constructed by the State Government.

NOTE.—The indices for the years 1963-64 and 1964-65 are generally based on 'Partially Revised Estimates' and 'Final Estimates' respectively and are, therefore, subject to revision.

APPENDIX 2.21

*Index Numbers of Agricultural Productivity—Mysore*

(Base : Agricultural Year 1956-57 = 100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	86.6	98.9	94.1	118.9	100.0	109.4	118.1	122.3	113.8	121.1	122.7	119.4	136.7
Jowar . . . . .	120.9	128.3	163.7	108.7	100.0	129.1	115.2	123.6	118.8	115.4	135.9	144.3	155.2
Bajra . . . . .	111.8	122.2	109.6	131.6	100.0	75.4	114.3	104.0	122.2	91.1	117.9	151.8	110.1
Maize . . . . .	48.1	81.0	57.9	62.5	100.0	108.2	108.2	107.8	133.9	127.0	91.1	98.2	104.2
Ragi . . . . .	53.6	93.1	80.0	122.8	100.0	102.3	100.7	104.7	95.8	102.7	105.0	107.6	100.3
Small Millets . . . . .	67.3	101.1	113.5	100.0	100.0	106.8	97.6	98.7	95.0	122.2	95.3	118.1	117.0
<b>KHARIF CEREALS . . . . .</b>	<b>88.3</b>	<b>104.1</b>	<b>107.0</b>	<b>112.2</b>	<b>100.0</b>	<b>112.1</b>	<b>114.5</b>	<b>118.9</b>	<b>112.6</b>	<b>117.6</b>	<b>122.8</b>	<b>127.0</b>	<b>137.8</b>
Wheat . . . . .	97.1	124.4	134.2	105.1	100.0	114.4	110.4	109.4	119.7	113.6	138.0	152.8	185.5
Barley . . . . .	254.1	171.0	80.9	148.3	100.0	97.6	85.2	117.0	108.1	85.6	77.2	85.4	88.5
<b>RABI CEREALS . . . . .</b>	<b>99.7</b>	<b>126.3</b>	<b>133.6</b>	<b>105.6</b>	<b>100.0</b>	<b>114.3</b>	<b>110.0</b>	<b>119.1</b>	<b>119.2</b>	<b>113.2</b>	<b>137.3</b>	<b>152.1</b>	<b>184.5</b>
<b>CEREALS . . . . .</b>	<b>88.6</b>	<b>104.8</b>	<b>108.1</b>	<b>111.9</b>	<b>100.0</b>	<b>112.1</b>	<b>114.5</b>	<b>118.9</b>	<b>112.9</b>	<b>117.7</b>	<b>123.5</b>	<b>127.9</b>	<b>139.4</b>
Gram . . . . .	102.4	135.1	138.2	122.5	100.0	129.4	158.6	152.6	191.3	161.4	162.1	158.7	179.4
Tur . . . . .	123.0	133.6	140.7	121.8	100.0	99.5	66.9	106.9	84.4	102.5	82.7	103.5	89.8
Other Pulses . . . . .	83.5	100.3	147.9	108.7	100.0	101.7	104.1	99.2	104.5	108.1	105.0	101.6	105.9
<b>PULSES . . . . .</b>	<b>95.2</b>	<b>113.7</b>	<b>145.0</b>	<b>113.4</b>	<b>100.0</b>	<b>104.8</b>	<b>102.5</b>	<b>107.8</b>	<b>111.0</b>	<b>113.7</b>	<b>107.1</b>	<b>109.2</b>	<b>111.8</b>
<b>FOODGRAINS . . . . .</b>	<b>89.7</b>	<b>106.3</b>	<b>112.3</b>	<b>111.7</b>	<b>100.0</b>	<b>111.5</b>	<b>113.5</b>	<b>118.4</b>	<b>113.3</b>	<b>118.1</b>	<b>123.1</b>	<b>127.5</b>	<b>138.2</b>

II. NON-FOODGRAINS—

Groundnut . . . . .	61.6	90.9	75.7	105.3	100.0	104.5	94.6	74.4	62.4	69.4	73.1	77.1	111.0
Sesamum . . . . .	89.0	93.1	117.5	112.0	100.0	130.1	114.6	98.7	97.5	110.3	201.1	164.2	130.7
Rapeseed & Mustard . . . . .	184.7	218.1	184.7	126.3	100.0	109.1	114.3	80.0	109.1	109.1	85.7	171.5	171.5
Linseed . . . . .	115.2	120.8	135.7	96.5	100.0	134.2	123.1	115.3	134.5	162.8	158.7	97.7	98.5
Castorseed . . . . .	100.3	80.7	76.0	80.7	100.0	94.1	132.9	131.6	108.7	125.6	132.2	125.6	131.4
<b>OILSEEDS</b> . . . . .	<b>62.6</b>	<b>88.0</b>	<b>76.9</b>	<b>103.1</b>	<b>100.0</b>	<b>105.7</b>	<b>96.8</b>	<b>76.8</b>	<b>65.2</b>	<b>67.1</b>	<b>78.6</b>	<b>81.0</b>	<b>112.6</b>
Cotton . . . . .	105.2	121.4	105.4	100.0	100.0	121.9	103.3	108.9	116.5	137.9	121.3	115.3	118.8
mesta . . . . .	99.1	104.3	131.1	92.0	100.0	95.7	99.8	102.6	97.3	107.8	107.8	105.9	100.6
<b>FIBRES</b> . . . . .	<b>105.7</b>	<b>120.0</b>	<b>106.3</b>	<b>99.8</b>	<b>100.0</b>	<b>121.6</b>	<b>103.2</b>	<b>109.1</b>	<b>116.5</b>	<b>137.9</b>	<b>121.3</b>	<b>115.4</b>	<b>118.8</b>
Tea . . . . .	85.3	109.8	114.3	98.7	100.0	254.5	175.5	162.1	178.6	188.4	154.9	182.9	154.4
Coffee . . . . .	52.8	67.4	77.3	67.9	100.0	110.8	104.5	108.7	100.0	89.7	87.4	92.3	92.3*
Rubber . . . . .	95.3	97.5	102.6	113.6	100.0	104.1	123.1	125.1	134.3	113.7	108.1	115.2	115.4
<b>PLANTATION CROPS</b> . . . . .	<b>54.6</b>	<b>69.3</b>	<b>78.8</b>	<b>70.6</b>	<b>100.0</b>	<b>114.5</b>	<b>106.5</b>	<b>110.2</b>	<b>102.4</b>	<b>92.2</b>	<b>89.5</b>	<b>95.1</b>	<b>94.3</b>
Sugarcane (Gur) . . . . .	71.4	88.9	95.0	97.6	100.0	99.3	94.5	102.8	106.0	110.5	116.2	127.2	120.2
Tobacco . . . . .	109.3	116.9	106.8	95.0	100.0	110.1	144.3	142.0	147.9	149.6	162.5	141.1	141.1
Potato . . . . .	44.6	43.8	64.3	66.9	100.0	100.0	119.8	157.9	135.6	116.1	115.2	89.3	95.3
Chillies (Dry) . . . . .	145.5	135.7	148.2	119.0	100.0	97.5	97.4	106.6	109.4	111.9	133.4	125.3	121.6
Pepper (Black) . . . . .	105.3	105.3	94.7	113.2	100.0	98.1	129.6	119.5	146.1	148.7	164.5	178.1	178.1
<b>MISCELLANEOUS CROPS</b> . . . . .	<b>81.1</b>	<b>93.0</b>	<b>91.6</b>	<b>95.3</b>	<b>100.0</b>	<b>103.4</b>	<b>114.4</b>	<b>123.7</b>	<b>127.5</b>	<b>138.4</b>	<b>143.9</b>	<b>149.4</b>	<b>143.9</b>
<b>NON-FOODGRAINS</b> . . . . .	<b>79.0</b>	<b>96.8</b>	<b>90.6</b>	<b>95.2</b>	<b>100.0</b>	<b>111.5</b>	<b>108.7</b>	<b>108.9</b>	<b>109.6</b>	<b>114.5</b>	<b>120.7</b>	<b>122.7</b>	<b>133.6</b>
<b>ALL CROPS†</b> . . . . .	<b>85.3</b>	<b>102.0</b>	<b>104.1</b>	<b>105.6</b>	<b>100.0</b>	<b>111.3</b>	<b>111.2</b>	<b>114.4</b>	<b>110.9</b>	<b>115.5</b>	<b>120.4</b>	<b>124.8</b>	<b>135.5</b>

\*Provisional.

†Excludes plantains, onions, sweet potatoes, coconut, arecanut, turmeric, cardamom and garlic, which are included in the series constructed by the State Government.

NOTE.—The indices for the years 1963-64 and 1964-65 are generally based on 'Partially Revised Estimates' and 'Final Estimates' respectively and are, therefore, subject to revision.

APPENDIX 2·22

*Index Numbers of Area under Crops—Himachal Pradesh*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	99·9	101·2	100·9	100·3	100·0	100·0	100·5	101·0	100·8	103·1	102·8	103·2	104·0
Maize . . . . .	100·8	97·2	99·4	99·9	100·0	102·4	101·4	104·1	104·5	104·3	105·2	108·0	106·2
Ragi . . . . .	106·6	108·8	108·7	106·0	100·0	97·1	97·0	100·6	100·1	99·5	95·2	93·8	89·5
Small Millets . . . . .	104·4	99·3	99·3	99·5	100·0	97·6	97·8	98·4	97·3	93·0	95·8	94·9	101·3
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KHARIF CEREALS . . . . .	101·5	99·3	100·5	100·4	100·0	100·8	100·4	102·4	102·4	102·2	102·6	104·1	103·8
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Wheat . . . . .	88·8	95·6	97·5	98·2	100·0	102·1	103·6	103·6	103·4	106·2	107·7	108·6	106·0
Barley . . . . .	89·0	92·9	96·1	102·5	100·0	99·0	103·0	109·5	94·9	97·4	92·0	88·6	88·0
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RABI CEREALS . . . . .	88·9	95·1	97·3	99·0	100·0	101·5	103·5	104·7	101·8	104·6	104·8	104·9	102·6
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CEREALS . . . . .	95·7	97·4	99·0	99·8	100·0	101·1	101·8	103·5	102·1	103·3	103·6	104·5	103·3

Gram . . . . .	28.1	88.3	131.1	109.4	100.0	112.2	110.3	111.0	66.2	94.8	93.2	88.4	93.6
Other Pulses . . . . .	94.0	97.8	100.4	104.5	100.0	94.5	101.3	102.7	95.4	98.0	99.7	100.4	104.3
<b>PULSES . . . . .</b>	<b>78.8</b>	<b>95.6</b>	<b>107.5</b>	<b>105.6</b>	<b>100.0</b>	<b>98.6</b>	<b>103.4</b>	<b>104.7</b>	<b>88.7</b>	<b>97.3</b>	<b>98.2</b>	<b>97.6</b>	<b>101.8</b>
<b>FOODGRAINS . . . . .</b>	<b>94.5</b>	<b>97.2</b>	<b>99.6</b>	<b>100.2</b>	<b>100.0</b>	<b>100.9</b>	<b>101.9</b>	<b>103.5</b>	<b>101.1</b>	<b>102.8</b>	<b>103.2</b>	<b>103.9</b>	<b>103.1</b>
<b>II. NON-FOODGRAINS—</b>													
Rapeseed & Mustard . . . . .	97.6	97.7	109.8	102.4	100.0	93.9	97.4	94.5	49.6	95.1	101.3	109.8	109.6
<b>OILSEEDS . . . . .</b>	<b>97.6</b>	<b>97.7</b>	<b>109.8</b>	<b>102.4</b>	<b>100.0</b>	<b>93.9</b>	<b>97.4</b>	<b>94.5</b>	<b>49.6</b>	<b>95.1</b>	<b>101.3</b>	<b>109.8</b>	<b>109.6</b>
Potatoes . . . . .	91.7	99.1	95.9	96.2	100.0	124.7	135.0	120.7	125.4	134.4	137.4	140.7	137.1
Sugarcane . . . . .	97.9	76.0	74.5	86.5	100.0	100.3	89.4	92.1	105.6	109.1	108.2	98.2	115.0
Ginger . . . . .	87.7	88.1	88.4	94.7	100.0	113.7	106.0	107.0	110.9	118.2	113.0	128.4	122.1
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>92.0</b>	<b>95.2</b>	<b>92.6</b>	<b>94.9</b>	<b>100.0</b>	<b>120.7</b>	<b>126.6</b>	<b>115.9</b>	<b>121.6</b>	<b>129.7</b>	<b>131.4</b>	<b>134.4</b>	<b>133.0</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>93.3</b>	<b>95.8</b>	<b>96.5</b>	<b>96.6</b>	<b>100.0</b>	<b>114.6</b>	<b>120.0</b>	<b>111.0</b>	<b>105.3</b>	<b>121.9</b>	<b>124.6</b>	<b>128.8</b>	<b>127.6</b>
<b>ALL CROPS . . . . .</b>	<b>94.4</b>	<b>97.2</b>	<b>99.5</b>	<b>100.1</b>	<b>100.0</b>	<b>101.4</b>	<b>102.6</b>	<b>103.8</b>	<b>101.3</b>	<b>103.5</b>	<b>104.0</b>	<b>104.8</b>	<b>104.0</b>

NOTE.—The indices for the years 1963-64 and 1964-65 are generally based on 'Partially Revised Estimates' and 'Final Estimates' respectively and are, therefore, subject to revision.

APPENDIX 2.23

*Index Numbers of Agricultural Production—Himāchal Pradesh*

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
<b>I. FOODGRAINS—</b>															
Rice . . . . .	15.7	67.5	72.9	70.6	86.9	100.0	110.8	105.9	100.4	106.1	116.7	90.3	95.5	118.7	
Maize . . . . .	20.6	87.2	86.8	89.7	95.3	100.0	93.9	83.4	99.7	108.8	134.3	141.0	155.6	169.1	
Ragi . . . . .	2.5	72.1	97.3	107.3	104.1	100.0	99.5	91.5	99.6	95.0	96.6	91.6	95.6	81.4	
Small Millets . . . . .	3.4	120.5	89.1	104.8	101.1	100.0	95.8	97.9	93.6	91.6	86.9	89.5	89.3	90.9	
<hr/>															
KHARIF CEREALS . . . . .	42.2	81.7	82.4	84.9	93.2	100.0	100.7	93.4	99.5	105.6	121.6	115.1	124.3	138.9	
<hr/>															
Wheat . . . . .	38.4	53.4	87.6	86.9	75.6	100.0	92.4	100.8	102.3	87.5	124.9	94.3	103.8	93.6	
Barley . . . . .	4.3	81.5	89.3	96.4	98.2	100.0	105.6	96.8	108.6	102.3	99.8	94.3	94.5	93.0	
<hr/>															
RABI CEREALS . . . . .	42.7	56.2	87.8	87.9	77.9	100.0	93.7	100.4	102.9	89.0	122.4	94.3	102.9	93.5	
<hr/>															
CEREALS . . . . .	84.9	68.9	85.1	86.4	85.5	100.0	97.2	96.9	101.2	97.3	122.0	104.6	113.5	116.1	



Gram . . . . .	0.9	22.8	114.9	217.0	109.5	100.0	115.8	97.9	108.3	58.1	83.8	72.2	58.1	83.4	
Other Pulses . . . . .	4.9	68.8	78.2	59.6	70.2	100.0	103.1	100.0	101.6	101.6	120.4	154.2	116.4	112.0	
<b>PULSES . . . . .</b>	<b>5.8</b>	<b>61.7</b>	<b>83.9</b>	<b>84.0</b>	<b>76.3</b>	<b>100.0</b>	<b>105.1</b>	<b>99.7</b>	<b>102.6</b>	<b>94.9</b>	<b>114.7</b>	<b>141.5</b>	<b>107.4</b>	<b>107.6</b>	
<b>FOODGRAINS . . . . .</b>	<b>90.7</b>	<b>68.4</b>	<b>85.0</b>	<b>86.2</b>	<b>84.9</b>	<b>100.0</b>	<b>97.7</b>	<b>97.1</b>	<b>101.3</b>	<b>97.1</b>	<b>121.5</b>	<b>107.0</b>	<b>113.1</b>	<b>115.6</b>	
<b>II. NON-FOODGRAINS—</b>															
Rapeseed & Mustard . . . . .	0.4	95.6	95.6	113.2	105.9	100.0	100.0	95.6	94.1	54.4	92.6	104.4	107.3	114.7	
<b>OILSEEDS . . . . .</b>	<b>0.4</b>	<b>95.6</b>	<b>95.6</b>	<b>113.2</b>	<b>105.9</b>	<b>100.0</b>	<b>100.0</b>	<b>95.6</b>	<b>94.1</b>	<b>54.4</b>	<b>92.6</b>	<b>104.4</b>	<b>107.3</b>	<b>114.7</b>	
Potatoes . . . . .	5.6	86.5	82.8	79.2	99.9	100.0	123.6	96.9	121.9	124.7	136.3	137.6	132.4	134.3	
Sugarcane (Gur) . . . . .	0.8	69.1	77.0	75.9	89.0	100.0	102.6	94.2	93.7	104.7	141.9	109.4	111.0	103.1	
Ginger (Dry) . . . . .	2.5	149.3	138.0	140.9	160.6	100.0	67.6	114.1	70.4	67.6	97.2	69.0	84.5	84.5	
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>8.9</b>	<b>102.6</b>	<b>97.8</b>	<b>96.2</b>	<b>116.0</b>	<b>100.0</b>	<b>106.0</b>	<b>101.5</b>	<b>104.9</b>	<b>106.9</b>	<b>125.8</b>	<b>115.8</b>	<b>117.0</b>	<b>117.5</b>	
<b>NON-FOODGRAINS . . . . .</b>	<b>9.3</b>	<b>102.3</b>	<b>97.7</b>	<b>96.9</b>	<b>115.6</b>	<b>100.0</b>	<b>105.7</b>	<b>101.2</b>	<b>104.4</b>	<b>104.6</b>	<b>124.4</b>	<b>115.3</b>	<b>116.6</b>	<b>117.4</b>	
<b>ALL CROPS . . . . .</b>	<b>100.0</b>	<b>71.6</b>	<b>86.2</b>	<b>87.2</b>	<b>87.8</b>	<b>100.0</b>	<b>98.4</b>	<b>97.5</b>	<b>101.6</b>	<b>97.8</b>	<b>121.8</b>	<b>107.8</b>	<b>113.4</b>	<b>115.8</b>	

NOTE.—The indices for the years 1963-64 and 1964-65 are generally based on 'Partially Revised Estimates, and 'Final Estimates' respectively and are, therefore, subject to revision,

## APPENDIX 2·24

### *Index Numbers of Agricultural Productivity—Himachal Pradesh*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	67·6	72·0	70·0	86·6	100·0	110·8	105·4	99·4	105·3	113·2	87·8	92·5	114·1
Maize . . . . .	86·5	89·3	90·2	95·4	100·0	91·7	82·2	95·8	104·1	128·8	134·0	144·1	159·2
Ragi . . . . .	67·6	89·4	98·7	98·2	100·0	102·5	94·3	99·0	94·9	97·1	96·	101·9	90·9
Small Millets . . . . .	115·4	89·7	105·5	101·6	100·0	98·2	100·1	95·1	94·1	93·4	93·4	94·1	89·7
<hr/>													
<b>KHARIF CEREALS . . . . .</b>	<b>80·5</b>	<b>83·0</b>	<b>84·5</b>	<b>92·8</b>	<b>100·0</b>	<b>99·9</b>	<b>93·0</b>	<b>97·2</b>	<b>103·1</b>	<b>119·0</b>	<b>112·2</b>	<b>119·5</b>	<b>133·8</b>
<hr/>													
Wheat . . . . .	60·1	91·6	89·1	77·0	100·0	90·5	97·3	98·7	84·6	117·6	87·6	95·6	88·3
Barley . . . . .	91·6	90·1	100·3	95·8	100·0	106·7	94·0	99·2	107·8	102·5	102·5	106·7	105·7
<hr/>													
<b>RABI CEREALS . . . . .</b>	<b>63·2</b>	<b>92·3</b>	<b>90·3</b>	<b>78·6</b>	<b>100·0</b>	<b>92·3</b>	<b>97·0</b>	<b>98·3</b>	<b>87·4</b>	<b>117·0</b>	<b>90·0</b>	<b>98·1</b>	<b>91·1</b>
<hr/>													
<b>CEREALS . . . . .</b>	<b>72·0</b>	<b>87·4</b>	<b>87·3</b>	<b>85·7</b>	<b>100·0</b>	<b>96·1</b>	<b>95·2</b>	<b>97·8</b>	<b>95·3</b>	<b>118·1</b>	<b>101·0</b>	<b>108·6</b>	<b>112·4</b>

Gram	81.1	130.1	165.5	100.0	100.0	103.2	88.8	98.2	87.8	88.4	77.5	65.7	89.1
Other Pulses	73.2	80.0	59.3	67.2	100.0	109.1	98.7	98.9	106.5	122.9	154.7	115.9	107.4
<b>PULSES</b>	<b>78.3</b>	<b>87.8</b>	<b>78.1</b>	<b>72.3</b>	<b>100.0</b>	<b>106.6</b>	<b>96.4</b>	<b>98.0</b>	<b>107.0</b>	<b>117.9</b>	<b>144.1</b>	<b>100.0</b>	<b>105.7</b>
<b>FOODGRAINS</b>	<b>72.4</b>	<b>87.4</b>	<b>81.5</b>	<b>84.7</b>	<b>100.0</b>	<b>96.8</b>	<b>95.3</b>	<b>97.9</b>	<b>96.0</b>	<b>118.2</b>	<b>103.7</b>	<b>108.9</b>	<b>112.1</b>
<b>II. NON-FOODGRAINS—</b>													
Rapeseed & Mustard	98.0	97.0	103.1	103.4	100.0	106.5	98.2	99.6	109.7	97.4	103.1	97.7	104.7
<b>OILSEEDS</b>	<b>98.0</b>	<b>97.0</b>	<b>103.1</b>	<b>103.4</b>	<b>100.0</b>	<b>106.5</b>	<b>98.2</b>	<b>99.6</b>	<b>109.7</b>	<b>97.4</b>	<b>103.1</b>	<b>97.7</b>	<b>104.7</b>
Potatoes	94.3	83.6	82.6	103.8	100.0	99.1	71.8	101.0	99.4	101.4	100.1	94.1	98.0
Sugarcane (Gur)	70.6	101.3	101.9	102.9	100.0	102.3	105.4	101.7	99.1	130.1	101.1	113.0	89.7
Ginger (Dry)	170.2	156.6	159.4	169.6	100.0	59.5	107.6	65.8	61.0	82.2	61.1	65.8	69.2
<b>MISCELLANEOUS CROPS</b>	<b>111.5</b>	<b>102.7</b>	<b>103.9</b>	<b>122.2</b>	<b>100.0</b>	<b>87.8</b>	<b>80.2</b>	<b>90.5</b>	<b>87.9</b>	<b>97.0</b>	<b>88.1</b>	<b>87.1</b>	<b>88.3</b>
<b>NON-FOODGRAINS</b>	<b>109.6</b>	<b>102.0</b>	<b>100.4</b>	<b>119.7</b>	<b>100.0</b>	<b>92.2</b>	<b>84.3</b>	<b>94.1</b>	<b>99.3</b>	<b>102.1</b>	<b>92.5</b>	<b>90.5</b>	<b>92.0</b>
<b>ALL CROPS</b>	<b>75.8</b>	<b>88.7</b>	<b>87.6</b>	<b>87.7</b>	<b>100.0</b>	<b>97.0</b>	<b>95.0</b>	<b>97.9</b>	<b>96.5</b>	<b>117.7</b>	<b>103.7</b>	<b>108.2</b>	<b>111.3</b>

NOTE.—The indices for the years 1963-64 and 1964-65 are generally based on 'Partially Revised Estimates' and 'Final Estimates' respectively and are, therefore, subject to revision.

APPENDIX 2.25

*Index Numbers of Area under Crops—Bihar*

(Base : Agricultural Year 1956-57 = 100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	105.3	104.5	98.2	105.4	100.0	99.2	105.0	100.0	105.1	102.2	104.3	106.8	106.1
Maize . . . . .	125.4	114.4	117.3	106.3	100.0	113.8	125.9	131.1	131.5	133.8	136.6	134.2	123.0
Ragi . . . . .	148.5	114.2	105.3	99.8	100.0	115.9	139.0	140.8	146.3	137.5	130.4	122.7	129.0
<b>KHARIF CEREALS . . . . .</b>	<b>108.5</b>	<b>105.8</b>	<b>100.4</b>	<b>105.4</b>	<b>100.0</b>	<b>101.2</b>	<b>108.1</b>	<b>104.5</b>	<b>109.0</b>	<b>106.4</b>	<b>108.4</b>	<b>110.2</b>	<b>108.5</b>
Wheat . . . . .	79.4	82.5	84.8	79.0	100.0	63.1	80.6	85.7	85.6	91.8	94.0	89.6	86.5
Barley . . . . .	107.8	122.6	97.5	96.3	100.0	86.5	110.7	116.7	105.4	109.6	109.0	98.5	93.1
<b>RABI CEREALS . . . . .</b>	<b>88.7</b>	<b>95.6</b>	<b>89.0</b>	<b>84.6</b>	<b>100.0</b>	<b>70.8</b>	<b>90.5</b>	<b>95.9</b>	<b>92.1</b>	<b>97.6</b>	<b>98.0</b>	<b>92.5</b>	<b>88.6</b>
<b>CEREALS . . . . .</b>	<b>105.3</b>	<b>104.1</b>	<b>98.5</b>	<b>101.9</b>	<b>100.0</b>	<b>96.2</b>	<b>105.2</b>	<b>102.9</b>	<b>106.2</b>	<b>105.0</b>	<b>106.8</b>	<b>107.2</b>	<b>105.2</b>
Gram . . . . .	120.5	111.3	109.0	100.9	100.0	90.8	118.7	116.6	109.4	108.0	103.4	100.9	94.4
Tur . . . . .	216.0	140.8	148.1	110.9	100.0	128.4	162.9	159.9	145.5	129.8	125.4	140.9	123.0
Other Pulses . . . . .	115.4	100.1	80.2	97.8	100.0	79.3	124.2	125.3	136.1	136.3	135.0	138.1	132.0
<b>PULSES . . . . .</b>	<b>126.1</b>	<b>107.5</b>	<b>96.0</b>	<b>100.0</b>	<b>100.0</b>	<b>87.5</b>	<b>125.7</b>	<b>125.4</b>	<b>127.8</b>	<b>126.0</b>	<b>123.7</b>	<b>125.7</b>	<b>118.5</b>
<b>FOODGRAINS . . . . .</b>	<b>108.9</b>	<b>104.7</b>	<b>98.1</b>	<b>101.6</b>	<b>100.0</b>	<b>94.7</b>	<b>108.8</b>	<b>106.9</b>	<b>109.9</b>	<b>108.6</b>	<b>109.8</b>	<b>110.5</b>	<b>107.6</b>

## II. NON-FOODGRAINS—

Rapeseed & Mustard . . . . .	208.5	169.1	166.0	133.8	100.0	108.0	150.5	163.9	153.7	205.9	186.0	161.9	151.1
Linseed . . . . .	165.1	133.2	105.0	108.4	100.0	59.2	121.2	111.9	115.0	116.7	113.1	119.5	115.9
Sesamum . . . . .	113.0	75.5	98.4	98.3	100.0	75.4	109.4	127.6	105.7	106.3	152.1	125.4	109.3
<b>OILSEEDS . . . . .</b>	<b>171.4</b>	<b>136.3</b>	<b>123.6</b>	<b>115.1</b>	<b>100.0</b>	<b>77.2</b>	<b>128.9</b>	<b>130.9</b>	<b>126.1</b>	<b>143.9</b>	<b>142.2</b>	<b>134.0</b>	<b>126.2</b>
Cotton . . . . .	192.6	172.4	179.6	143.8	100.0	69.2	82.6	83.9	71.4	75.2	73.2	79.8	77.5
Jute . . . . .	74.4	49.9	43.0	69.3	100.0	77.1	73.6	64.6	58.7	91.4	79.3	80.5	68.3
<b>FIBRES . . . . .</b>	<b>75.7</b>	<b>51.2</b>	<b>44.5</b>	<b>70.1</b>	<b>100.0</b>	<b>77.0</b>	<b>73.7</b>	<b>64.8</b>	<b>58.8</b>	<b>91.2</b>	<b>79.2</b>	<b>80.5</b>	<b>68.4</b>
Sugarcane . . . . .	90.1	74.6	81.4	94.4	100.0	93.5	100.7	110.2	114.0	121.2	99.6	86.5	101.9
Chillies . . . . .	116.0	105.9	88.7	71.7	100.0	177.5	147.7	182.4	165.2	136.8	139.3	129.7	124.4
Potatoes . . . . .	78.5	79.1	79.1	87.6	100.0	125.9	140.5	141.5	151.7	145.8	163.2	165.0	170.0
Tobacco . . . . .	94.2	69.2	70.1	75.6	100.0	85.9	97.4	109.7	93.9	103.7	101.6	86.3	86.1
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>90.5</b>	<b>78.0</b>	<b>80.8</b>	<b>89.7</b>	<b>100.0</b>	<b>107.1</b>	<b>112.7</b>	<b>123.0</b>	<b>124.9</b>	<b>126.3</b>	<b>116.0</b>	<b>106.0</b>	<b>116.4</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>106.1</b>	<b>83.3</b>	<b>78.5</b>	<b>89.1</b>	<b>100.0</b>	<b>88.2</b>	<b>102.5</b>	<b>103.5</b>	<b>100.7</b>	<b>117.9</b>	<b>109.2</b>	<b>103.8</b>	<b>101.2</b>
<b>ALL CROPS . . . . .</b>	<b>108.7</b>	<b>103.1</b>	<b>96.6</b>	<b>100.6</b>	<b>100.0</b>	<b>94.2</b>	<b>108.3</b>	<b>106.6</b>	<b>109.2</b>	<b>109.3</b>	<b>109.7</b>	<b>109.9</b>	<b>107.0</b>

NOTES—1. Due to defects in the statistics of area and production of different crops for which no adjustments could be made in the absence of detailed data at lower levels, the index numbers for the period prior to 1956-57 suffer from a number of limitations.

2. The indices for the years 1962-63 and 1963-64 are generally based on 'Partially Revised Estimates' while those for 1964-65 on 'Final Estimates'. The indices for these years are, therefore, subject to revision.

APPENDIX 2.26

*Index Numbers of Agricultural Production—Bihar*

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS—</b>														
Rice . . . . .	70.40	91.6	111.2	70.4	98.0	100.0	61.2	118.3	102.4	119.7	116.1	112.8	123.0	131.4
Maize . . . . .	4.72	116.1	74.0	111.6	75.3	100.0	99.3	125.6	148.1	130.6	133.3	140.8	142.0	95.9
Ragi . . . . .	1.03	145.5	84.1	94.8	85.0	100.0	104.8	131.7	167.4	141.0	131.9	137.4	143.8	133.7
<b>KHARIF CEREALS . . . . .</b>	<b>76.15</b>	<b>93.8</b>	<b>108.5</b>	<b>73.3</b>	<b>96.4</b>	<b>100.0</b>	<b>64.2</b>	<b>118.9</b>	<b>106.1</b>	<b>120.7</b>	<b>117.4</b>	<b>114.9</b>	<b>124.5</b>	<b>129.2</b>
Wheat . . . . .	3.79	203.3	215.8	231.3	198.6	100.0	148.9	237.4	192.1	239.8	283.2	286.9	226.4	215.7
Barley . . . . .	1.82	157.5	170.6	152.8	161.4	100.0	125.3	197.4	149.9	158.9	201.6	182.8	161.6	143.4
<b>RABI CEREALS . . . . .</b>	<b>5.61</b>	<b>188.4</b>	<b>201.1</b>	<b>205.8</b>	<b>186.5</b>	<b>100.0</b>	<b>141.2</b>	<b>224.4</b>	<b>178.4</b>	<b>213.6</b>	<b>256.7</b>	<b>253.1</b>	<b>205.4</b>	<b>192.2</b>
<b>CEREALS . . . . .</b>	<b>81.76</b>	<b>100.3</b>	<b>114.9</b>	<b>82.4</b>	<b>102.6</b>	<b>100.0</b>	<b>69.5</b>	<b>126.1</b>	<b>111.1</b>	<b>127.1</b>	<b>127.0</b>	<b>124.4</b>	<b>130.1</b>	<b>133.5</b>
Gram . . . . .	2.33	224.0	202.1	183.3	144.4	100.0	150.3	217.1	167.2	222.6	206.8	195.3	172.5	148.0
Tur . . . . .	0.70	296.9	174.4	203.5	155.6	100.0	169.7	267.2	226.6	225.7	185.1	264.5	249.9	289.2
Other Pulses . . . . .	4.23	204.3	193.6	131.5	157.2	100.0	96.3	180.9	165.2	220.4	234.3	223.0	275.0	231.0
<b>PULSES . . . . .</b>	<b>7.26</b>	<b>219.6</b>	<b>194.5</b>	<b>155.1</b>	<b>152.9</b>	<b>100.0</b>	<b>120.7</b>	<b>200.8</b>	<b>171.8</b>	<b>221.6</b>	<b>220.7</b>	<b>218.1</b>	<b>239.7</b>	<b>210.0</b>
<b>FOODGRAINS . . . . .</b>	<b>89.02</b>	<b>110.0</b>	<b>121.4</b>	<b>88.3</b>	<b>106.7</b>	<b>100.0</b>	<b>73.7</b>	<b>132.2</b>	<b>116.1</b>	<b>134.8</b>	<b>134.6</b>	<b>132.0</b>	<b>139.0</b>	<b>139.7</b>

II. NON-FOODGRAINS—

Rapeseed & Mustard	0.38	375.9	313.8	263.8	185.2	100.0	156.2	290.2	223.4	261.9	370.4	461.6	225.4	250.9
Linseed	0.28	325.2	290.9	197.8	220.4	100.0	90.4	245.8	236.0	249.5	285.7	271.8	256.7	326.2
Sesamum	0.12	171.5	77.1	94.8	97.3	100.0	58.5	91.5	135.6	89.7	107.5	122.0	136.7	139.5
OILSEEDS	0.78	326.3	269.2	214.1	184.3	100.0	117.5	243.7	214.4	231.0	299.5	341.2	223.0	260.8
Cotton	0.01	193.2	183.1	55.8	79.4	100.0	70.7	101.2	96.6	90.4	138.2	137.9	128.9	61.3
Jute	0.53	71.1	37.8	30.8	52.1	100.0	56.9	58.2	39.8	39.8	59.2	48.9	48.9	43.3
FIBRES	0.54	73.4	40.5	31.2	52.6	100.0	57.2	50.0	40.9	40.7	60.7	50.5	50.4	43.6
Sugarcane (Gur)	6.00	68.7	50.2	67.5	79.5	100.0	86.8	74.6	81.9	85.4	76.8	59.2	62.6	83.2
Chillies (Dry)	0.60	325.8	217.2	124.1	208.1	100.0	539.3	295.2	293.0	260.8	219.2	309.6	281.4	246.3
Potatoes	2.57	160.2	148.7	94.6	90.6	100.0	98.7	104.3	164.1	197.5	122.7	207.9	233.4	237.0
Tobacco	0.49	267.1	133.0	117.5	95.4	100.0	122.2	196.7	202.5	159.5	197.3	137.6	159.4	150.1
MISCELLANEOUS CROPS	9.66	119.1	91.0	80.8	91.2	100.0	119.9	102.3	123.0	129.9	104.0	118.3	126.5	137.6
NON-FOODGRAINS	10.98	131.6	101.2	87.8	95.9	100.0	116.6	110.2	125.5	132.7	115.8	130.8	129.6	141.7
ALL CROPS	100.00	112.4	119.2	88.2	105.5	100.0	78.4	129.8	117.1	134.6	132.5	131.9	138.0	139.9

NOTES.—1. Due to defects in the statistics of area and production of different crops for which no adjustments could be made in the absence of detailed data at lower levels, the index number for the period prior to 1956-57 suffer from a number of limitations.

2. The indices for the years 1962-63 and 1963-64 are generally based on 'Partially Revised Estimates', while those for 1964-65 on 'Final Estimates'. The indices for these years are, therefore, subject to revision.

APPENDIX 2·27

*Index Numbers of Agricultural Productivity—Bihar*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	87·0	106·4	71·7	93·0	100·0	61·7	112·7	102·4	113·9	113·7	108·1	115·2	123·8
Maize . . . . .	92·6	64·7	95·2	70·8	100·0	87·3	99·8	112·9	99·3	99·6	103·1	105·8	78·0
Ragi . . . . .	98·0	73·6	90·0	85·2	100·0	90·4	94·7	118·9	96·4	95·9	105·4	117·2	103·6
<b>KHARIF CEREALS . . . . .</b>	<b>86·5</b>	<b>102·6</b>	<b>73·0</b>	<b>91·5</b>	<b>100·0</b>	<b>63·4</b>	<b>110·0</b>	<b>101·5</b>	<b>110·7</b>	<b>110·3</b>	<b>106·0</b>	<b>113·0</b>	<b>119·1</b>
Wheat . . . . .	256·0	261·6	272·3	251·4	100·0	236·0	294·5	224·2	280·1	308·5	305·2	252·7	249·4
Barley . . . . .	146·1	139·2	156·7	167·6	100·0	144·9	178·3	128·4	150·8	183·9	167·8	164·1	154·0
<b>RABI CEREALS . . . . .</b>	<b>212·4</b>	<b>210·4</b>	<b>231·2</b>	<b>220·4</b>	<b>100·0</b>	<b>200·1</b>	<b>248·0</b>	<b>186·0</b>	<b>231·9</b>	<b>263·0</b>	<b>255·9</b>	<b>222·1</b>	<b>216·9</b>
<b>CEREALS . . . . .</b>	<b>95·3</b>	<b>110·4</b>	<b>83·6</b>	<b>100·7</b>	<b>100·0</b>	<b>72·2</b>	<b>119·9</b>	<b>108·0</b>	<b>119·7</b>	<b>121·0</b>	<b>116·5</b>	<b>121·4</b>	<b>126·9</b>
Gram . . . . .	185·9	181·6	168·2	143·1	100·0	165·5	182·9	143·4	203·5	191·5	188·9	171·0	156·8
Tur . . . . .	137·4	123·9	137·4	140·3	100·0	132·2	164·0	141·7	155·1	142·6	210·9	177·4	234·0
Other Pulses . . . . .	177·0	193·4	164·0	160·7	100·0	121·4	145·7	131·8	161·9	171·9	164·5	199·1	175·0
<b>PULSES . . . . .</b>	<b>174·1</b>	<b>180·9</b>	<b>161·6</b>	<b>152·9</b>	<b>100·0</b>	<b>137·9</b>	<b>159·7</b>	<b>137·0</b>	<b>173·4</b>	<b>175·2</b>	<b>176·3</b>	<b>190·7</b>	<b>177·2</b>
<b>FOODGRAINS . . . . .</b>	<b>101·0</b>	<b>116·0</b>	<b>90·0</b>	<b>105·0</b>	<b>100·0</b>	<b>77·8</b>	<b>121·5</b>	<b>108·6</b>	<b>122·7</b>	<b>123·9</b>	<b>120·2</b>	<b>125·8</b>	<b>129·8</b>



**II. NON-FOODGRAINS—**

Rapeseed & Mustard . . . . .	180.3	185.6	158.9	138.4	100.0	144.6	192.9	136.3	170.4	179.9	248.2	139.2	166.0
Linseed . . . . .	197.1	218.4	188.4	203.3	100.0	152.7	202.8	210.9	217.0	244.8	240.3	214.8	281.4
Sesamum . . . . .	151.7	102.1	96.3	99.0	100.0	74.1	83.6	106.3	84.9	101.1	80.2	109.0	127.6
<b>OILSEEDS . . . . .</b>	<b>190.4</b>	<b>197.5</b>	<b>173.2</b>	<b>160.1</b>	<b>100.0</b>	<b>152.2</b>	<b>189.1</b>	<b>163.8</b>	<b>183.2</b>	<b>208.1</b>	<b>239.9</b>	<b>166.4</b>	<b>206.7</b>
Cotton . . . . .	100.2	106.2	31.1	55.2	100.0	102.2	122.5	115.1	126.6	182.8	188.4	161.5	79.1
Jute . . . . .	95.6	75.8	71.6	75.2	100.0	73.8	79.1	61.6	67.8	64.8	61.7	60.7	63.4
<b>FIBRES . . . . .</b>	<b>97.0</b>	<b>79.1</b>	<b>70.1</b>	<b>75.0</b>	<b>100.0</b>	<b>74.3</b>	<b>80.1</b>	<b>63.1</b>	<b>69.2</b>	<b>66.6</b>	<b>63.8</b>	<b>62.6</b>	<b>63.7</b>
Sugarcane (Gur) . . . . .	76.2	67.3	82.9	84.2	100.0	92.8	74.1	74.3	74.9	63.4	59.4	72.4	81.6
Chillies (Dry) . . . . .	280.9	205.1	139.9	290.2	100.0	303.8	199.9	160.6	157.9	160.2	222.3	217.0	198.0
Potatoes . . . . .	204.1	188.0	119.6	103.4	100.0	78.4	74.2	116.0	130.2	84.2	127.4	141.5	139.4
Tobacco . . . . .	283.5	192.2	167.6	126.2	100.0	142.5	202.0	184.5	169.9	190.6	135.4	184.7	174.3
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>131.6</b>	<b>116.7</b>	<b>100.0</b>	<b>101.7</b>	<b>100.0</b>	<b>112.0</b>	<b>90.8</b>	<b>100.0</b>	<b>104.0</b>	<b>82.3</b>	<b>102.0</b>	<b>119.3</b>	<b>118.2</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>124.0</b>	<b>121.5</b>	<b>111.8</b>	<b>107.6</b>	<b>100.0</b>	<b>132.2</b>	<b>107.5</b>	<b>121.3</b>	<b>131.8</b>	<b>98.2</b>	<b>119.8</b>	<b>124.9</b>	<b>140.0</b>
<b>ALL CROPS . . . . .</b>	<b>103.4</b>	<b>115.6</b>	<b>91.3</b>	<b>104.9</b>	<b>100.0</b>	<b>83.2</b>	<b>119.9</b>	<b>108.8</b>	<b>123.3</b>	<b>121.2</b>	<b>120.2</b>	<b>125.6</b>	<b>130.7</b>

NOTES.—1. Due to defects in the statistics of area and production of different crops for which no adjustments could be made in the absence of the data at lower levels, the index numbers for the period prior to 1956-57 suffer from a number of limitations.  
 2. The indices for the year 1962-63 and 1963-64 are generally based on 'Partially Revised Estimates' while those for 1964-65 on 'Final Estimates'. The indices for these years are, therefore, subject to revision.

APPENDIX 2.28

*Index Numbers of Area under Crops—Maharashtra*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	91.7	95.1	97.0	97.5	100.0	102.6	103.8	105.1	107.2	108.8	110.7	109.6	112.3
Jowar . . . . .	100.5	98.8	97.1	100.5	100.0	100.2	104.2	104.1	110.0	107.7	107.3	105.8	106.4
Bajra . . . . .	94.3	106.9	105.6	93.7	100.0	97.6	96.9	93.5	88.0	90.8	90.4	89.6	90.2
Maize . . . . .	111.9	122.4	115.4	104.8	100.0	102.7	105.3	101.7	100.2	101.5	109.2	103.8	108.3
Ragi . . . . .	96.4	94.6	100.9	99.7	100.0	103.9	97.3	96.6	97.2	94.9	95.3	92.4	93.3
Kodra . . . . .	N.A.	N.A.	N.A.	N.A.	100.0	89.7	93.2	85.9	88.0	84.6	81.9	80.6	81.7
<b>OTHER KHARIF CEREALS</b>	<b>98.4</b>	<b>118.8</b>	<b>101.3</b>	<b>94.9</b>	<b>100.0</b>	<b>93.3</b>	<b>92.4</b>	<b>90.5</b>	<b>91.7</b>	<b>86.3</b>	<b>85.3</b>	<b>83.8</b>	<b>83.9</b>
Wheat . . . . .	69.3	76.0	85.8	99.8	100.0	93.2	92.1	103.0	97.1	97.2	94.3	96.2	96.4
Barley . . . . .	64.5	83.5	95.0	91.7	100.0	94.2	87.6	86.0	70.3	66.1	115.7	88.4	91.7
<b>CEREALS</b>	<b>95.4</b>	<b>98.2</b>	<b>97.9</b>	<b>98.7</b>	<b>100.0</b>	<b>99.3</b>	<b>101.3</b>	<b>101.6</b>	<b>103.7</b>	<b>103.0</b>	<b>102.6</b>	<b>101.6</b>	<b>102.4</b>
Gram . . . . .	79.2	82.0	92.6	102.0	100.0	92.3	88.8	95.6	83.8	84.1	77.6	80.1	78.0
Tur . . . . .	96.2	107.3	101.7	101.1	100.0	100.5	101.9	96.4	95.7	101.4	98.2	100.5	102.3
Other Pulses . . . . .	95.5	108.0	108.0	94.3	100.0	98.5	96.1	98.5	95.4	98.3	96.3	93.1	92.0
<b>PULSES</b>	<b>92.6</b>	<b>102.9</b>	<b>103.7</b>	<b>97.4</b>	<b>100.0</b>	<b>97.7</b>	<b>96.0</b>	<b>97.5</b>	<b>93.2</b>	<b>96.2</b>	<b>93.1</b>	<b>92.2</b>	<b>91.6</b>
<b>FOODGRAINS</b>	<b>94.8</b>	<b>99.1</b>	<b>99.0</b>	<b>98.5</b>	<b>100.0</b>	<b>99.0</b>	<b>100.2</b>	<b>100.8</b>	<b>101.7</b>	<b>101.7</b>	<b>100.8</b>	<b>99.7</b>	<b>100.3</b>

II. NON-FOODGRAINS—

Groundnut . . . . .	90.0	75.3	99.0	92.7	100.0	102.4	104.2	102.1	97.1	100.2	102.7	99.0	99.3
Sesamum . . . . .	123.8	129.6	133.0	90.9	100.0	99.8	115.0	92.4	100.7	93.1	104.8	100.6	98.1
Rapeseed, Mustard and Linseed .	74.0	75.3	79.9	93.7	100.0	93.3	89.1	101.7	85.8	90.2	82.2	78.1	78.5
Castorseed . . . . .	169.2	166.9	116.6	117.2	100.0	87.6	72.8	82.3	78.1	74.6	61.5	66.9	63.3
<b>OILSEEDS . . . . .</b>	<b>90.2</b>	<b>80.2</b>	<b>98.5</b>	<b>92.9</b>	<b>100.0</b>	<b>100.5</b>	<b>102.2</b>	<b>101.2</b>	<b>95.3</b>	<b>97.7</b>	<b>98.9</b>	<b>95.2</b>	<b>95.3</b>
Cotton . . . . .	87.7	100.0	100.4	108.2	100.0	97.1	98.0	95.1	95.4	102.7	101.5	105.7	105.3
Meat . . . . .	N.A.	N.A.	N.A.	N.A.	100.0	98.0	96.5	91.7	85.9	93.1	79.2	80.6	82.5
<b>FIBRES . . . . .</b>	<b>87.7</b>	<b>100.0</b>	<b>100.4</b>	<b>108.2</b>	<b>100.0</b>	<b>97.1</b>	<b>97.9</b>	<b>95.0</b>	<b>95.2</b>	<b>102.5</b>	<b>101.0</b>	<b>105.1</b>	<b>104.8</b>
Sugarcane . . . . .	82.9	73.4	82.9	88.9	100.0	110.5	115.4	129.8	151.7	150.6	131.9	136.5	139.2
Tobacco . . . . .	95.4	117.7	110.0	93.1	100.0	79.4	71.6	91.4	83.0	78.2	63.1	66.0	72.9
Potatoes . . . . .	N.A.	N.A.	N.A.	N.A.	100.0	103.3	93.4	112.5	133.3	110.9	124.4	105.9	109.9
Chillies . . . . .	76.3	79.1	89.8	93.3	100.0	101.2	100.6	100.8	108.5	110.1	110.8	113.9	114.2
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>80.8</b>	<b>81.2</b>	<b>89.6</b>	<b>91.7</b>	<b>100.0</b>	<b>102.3</b>	<b>102.4</b>	<b>110.5</b>	<b>122.1</b>	<b>121.1</b>	<b>113.8</b>	<b>116.5</b>	<b>118.5</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>88.1</b>	<b>92.0</b>	<b>99.0</b>	<b>101.9</b>	<b>100.0</b>	<b>98.6</b>	<b>99.7</b>	<b>98.1</b>	<b>97.0</b>	<b>102.1</b>	<b>101.1</b>	<b>102.5</b>	<b>102.4</b>
<b>ALL CROPS . . . . .</b>	<b>93.1</b>	<b>97.3</b>	<b>99.0</b>	<b>99.9</b>	<b>100.0</b>	<b>98.9</b>	<b>100.1</b>	<b>100.1</b>	<b>100.4</b>	<b>101.8</b>	<b>100.9</b>	<b>100.4</b>	<b>100.8</b>

NOTE.—The indices for the years 1963-64 and 1964-65 are generally based on 'Partially Revised' and 'Final Estimates' respectively and are, therefore, subject to revision.

APPENDIX 2·29

*Index Numbers of Agricultural Production—Maharashtra*

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS—</b>														
Rice . . . . .	17·38	80·1	93·6	96·7	99·0	100·0	98·9	114·1	105·5	113·1	124·7	104·7	126·1	121·8
Jowar . . . . .	27·48	72·9	86·5	102·5	76·1	100·0	98·3	106·2	94·0	137·8	96·8	109·3	104·7	109·1
Bajra . . . . .	5·09	58·4	121·1	115·1	99·8	100·0	117·1	106·5	112·9	110·9	98·1	125·8	103·5	107·8
Maize . . . . .	0·13	109·5	110·9	146·9	101·4	100·0	102·0	98·0	94·6	125·2	130·6	130·6	133·3	146·3
Ragi . . . . .	1·77	84·3	90·6	98·4	92·9	100·0	97·3	92·8	90·0	98·0	97·5	89·9	92·3	101·9
Kodra . . . . .	0·26	N.A.	N.A.	N.A.	N.A.	100·0	79·1	84·1	78·7	79·1	77·6	74·7	71·8	74·0
OTHER KHAIRF CEREALS . . . . .	0·68	80·3	105·3	94·9	84·6	100·0	91·3	85·4	75·0	79·4	80·5	77·1	78·5	78·8
Wheat . . . . .	4·34	63·0	85·4	114·3	122·2	100·0	90·7	127·2	121·4	122·6	129·1	138·2	105·5	125·0
Barley . . . . .	0·02	75·0	104·2	95·8	75·0	100·0	91·7	79·2	50·0	66·7	62·5	100·0	87·5	104·2
CEREALS . . . . .	57·15	73·5	92·1	102·7	89·4	100·0	99·4	109·4	100·9	124·5	107·6	110·5	110·4	113·4
Gram . . . . .	1·65	65·2	90·0	107·0	114·1	100·0	86·6	87·2	90·4	86·8	88·2	93·1	72·8	80·1
Tur . . . . .	3·52	105·0	146·5	107·1	112·3	100·0	93·6	98·7	79·8	129·8	95·4	85·2	103·9	101·2
Other Pulses . . . . .	3·49	76·0	121·6	112·4	87·6	100·0	101·3	88·0	87·7	99·0	95·9	96·4	99·6	100·2
PULSES . . . . .	8·66	85·7	125·7	109·2	102·7	100·0	95·4	92·2	85·0	109·2	94·2	91·2	96·2	96·8
FOODGRAINS . . . . .	65·81	75·1	96·5	103·6	91·2	100·0	98·9	107·1	98·8	122·5	105·8	108·0	108·5	111·2

## II. Non-FOODGRAINS—

Groundnut . . . . .	8.38	55.3	84.1	110.8	93.9	100.0	108.9	110.7	122.6	130.5	127.6	131.7	119.8	135.5
Sesamum . . . . .	0.61	93.9	114.9	124.1	87.8	100.0	94.0	108.5	81.7	94.6	79.3	93.9	104.8	101.7
Rapeseed, Mustard and Linseed . . . . .	0.80	65.0	76.7	84.4	88.2	100.0	98.5	91.3	105.0	93.5	92.6	82.8	78.2	81.6
Castorseed . . . . .	0.02	161.5	184.6	176.9	161.5	100.0	92.3	76.9	84.6	69.2	46.2	46.2	76.9	76.9
<b>OILSEEDS . . . . .</b>	<b>9.81</b>	<b>58.7</b>	<b>85.6</b>	<b>109.6</b>	<b>93.2</b>	<b>100.0</b>	<b>107.1</b>	<b>108.9</b>	<b>118.5</b>	<b>125.1</b>	<b>121.6</b>	<b>125.2</b>	<b>115.4</b>	<b>128.9</b>
Cotton . . . . .	12.75	70.1	91.4	88.3	61.8	100.0	100.4	96.8	54.2	125.0	74.9	100.6	114.1	97.6
Mesta . . . . .	0.20	N.A.	N.A.	N.A.	N.A.	100.0	90.9	87.9	100.1	94.5	100.6	93.4	64.8	58.7
<b>FIBRES . . . . .</b>	<b>12.95</b>	<b>70.1</b>	<b>91.4</b>	<b>88.3</b>	<b>61.8</b>	<b>100.0</b>	<b>100.3</b>	<b>96.7</b>	<b>54.9</b>	<b>124.5</b>	<b>75.3</b>	<b>100.5</b>	<b>113.3</b>	<b>97.0</b>
Sugarcane (Cur) . . . . .	7.61	70.9	68.2	80.2	86.5	100.0	111.2	114.4	124.0	146.5	46.0	129.3	143.6	146.0
Tobacco . . . . .	0.80	114.3	111.4	106.4	79.3	100.0	92.9	74.3	114.6	85.6	90.6	82.8	71.5	77.1
Potatoes . . . . .	0.54	38.7	35.4	47.0	71.9	100.0	95.0	91.1	103.8	133.3	105.7	116.7	100.9	105.6
Chillies (Dry). . . . .	2.48	67.8	67.6	86.6	82.4	100.0	94.8	95.6	116.2	142.1	136.6	137.9	146.0	145.5
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>11.43</b>	<b>71.7</b>	<b>69.5</b>	<b>81.9</b>	<b>84.4</b>	<b>100.0</b>	<b>105.5</b>	<b>106.4</b>	<b>120.7</b>	<b>140.7</b>	<b>138.2</b>	<b>127.3</b>	<b>137.1</b>	<b>139.2</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>34.19</b>	<b>67.4</b>	<b>82.4</b>	<b>92.3</b>	<b>78.4</b>	<b>100.0</b>	<b>104.0</b>	<b>103.4</b>	<b>95.1</b>	<b>130.1</b>	<b>109.6</b>	<b>116.5</b>	<b>121.9</b>	<b>120.3</b>
<b>ALL CROPS . . . . .</b>	<b>100.00</b>	<b>72.5</b>	<b>91.7</b>	<b>99.7</b>	<b>86.8</b>	<b>100.0</b>	<b>100.6</b>	<b>105.8</b>	<b>97.5</b>	<b>125.1</b>	<b>107.1</b>	<b>110.9</b>	<b>113.1</b>	<b>114.3</b>

NOTES.—1. The indices for the years 1963-64 and 1964-65 are generally based on 'Partially Revised Estimates' and 'Final Estimates' respectively and are, therefore, subject to revision.

2. The indices for Kodra and Mesta are not worked out for the years 1952-53 to 1955-56 as the estimates of production of these commodities are not available. The weights of these commodities are, therefore, not taken into account for construction of the index numbers for these years for the concerned sub-group and group of crops.

APPENDIX 2.30

*Index Numbers of Agricultural Productivity—Maharashtra*

(Base: Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	87.4	98.4	99.7	101.5	100.0	96.4	109.9	100.4	105.5	114.6	94.6	115.1	108.5
Jowar . . . . .	72.5	87.6	105.6	75.7	100.0	98.1	101.9	90.3	125.3	89.9	101.9	99.0	102.5
Bajra . . . . .	61.9	113.3	109.0	106.5	100.0	120.0	109.9	120.7	126.0	108.0	139.2	115.5	119.5
Maize . . . . .	97.9	90.6	127.3	96.8	100.0	99.3	93.1	93.0	125.0	128.7	119.6	128.4	135.1
Ragi . . . . .	87.4	95.8	97.5	93.2	100.0	93.6	95.4	93.2	100.8	102.7	94.3	99.9	109.2
Kodra . . . . .	N.A.	N.A.	N.A.	N.A.	100.0	88.2	90.2	91.6	89.9	91.7	91.2	89.1	90.6
Other Kharif Cereals . . . . .	81.6	88.6	93.7	89.1	100.0	97.9	92.4	82.9	86.6	93.3	90.4	93.7	93.9
Wheat . . . . .	90.9	112.4	133.2	122.4	100.0	97.3	138.1	117.9	126.3	132.8	146.6	109.7	129.7
Barley . . . . .	116.3	124.8	100.8	81.8	100.0	97.3	90.4	58.1	94.9	94.6	86.4	99.0	113.6
<b>CEREALS</b> . . . . .	<b>77.0</b>	<b>93.8</b>	<b>104.9</b>	<b>90.1</b>	<b>100.0</b>	<b>100.1</b>	<b>108.0</b>	<b>99.3</b>	<b>120.1</b>	<b>104.5</b>	<b>107.7</b>	<b>108.7</b>	<b>110.7</b>
Gram . . . . .	82.3	109.8	115.6	110.9	100.0	93.8	98.2	94.6	103.6	104.9	120.0	90.9	102.7
Tur . . . . .	109.1	136.5	105.3	111.1	100.0	93.1	96.9	82.8	135.6	94.1	86.8	103.4	98.9
Other Pulses . . . . .	79.6	112.6	104.1	92.9	100.0	102.8	91.6	89.0	103.8	97.6	100.1	107.0	108.9
<b>PULSES</b> . . . . .	<b>92.5</b>	<b>122.2</b>	<b>105.3</b>	<b>105.4</b>	<b>100.0</b>	<b>97.6</b>	<b>96.0</b>	<b>87.2</b>	<b>117.2</b>	<b>97.9</b>	<b>98.0</b>	<b>104.3</b>	<b>105.7</b>
<b>FOODGRAINS</b> . . . . .	<b>79.2</b>	<b>97.4</b>	<b>104.6</b>	<b>92.6</b>	<b>100.0</b>	<b>99.9</b>	<b>106.9</b>	<b>98.0</b>	<b>120.5</b>	<b>104.0</b>	<b>107.1</b>	<b>108.8</b>	<b>110.9</b>

II. NON-FOODGRAINS—

Groundnut . . . . .	61.4	111.7	111.9	101.3	100.0	106.3	106.2	120.1	134.4	127.3	128.2	121.0	136.5
Sesamum . . . . .	75.8	88.7	93.3	96.6	100.0	94.2	94.3	88.4	93.9	85.2	89.6	104.2	103.7
Castorseed . . . . .	95.4	110.6	151.7	137.8	100.0	105.4	105.6	102.8	88.6	61.9	75.1	114.9	121.5
Rapeseed, Mustard and Linseed . . . . .	87.8	101.9	105.6	94.1	100.0	105.6	102.5	103.2	109.0	102.7	100.7	100.1	103.9
<b>OILSEEDS</b> . . . . .	<b>65.1</b>	<b>106.7</b>	<b>111.3</b>	<b>100.3</b>	<b>100.0</b>	<b>106.6</b>	<b>106.6</b>	<b>117.1</b>	<b>131.3</b>	<b>124.5</b>	<b>126.6</b>	<b>121.2</b>	<b>135.3</b>
Cotton . . . . .	79.9	91.4	87.9	57.1	100.0	103.4	98.0	57.0	131.0	72.9	99.1	107.9	92.7
Mesta . . . . .	N.A.	N.A.	N.A.	N.A.	100.0	92.8	91.1	109.2	110.0	108.1	117.9	80.4	71.2
<b>FIBRES</b> . . . . .	<b>79.9</b>	<b>91.4</b>	<b>87.9</b>	<b>57.1</b>	<b>100.0</b>	<b>103.3</b>	<b>98.8</b>	<b>57.8</b>	<b>130.8</b>	<b>73.5</b>	<b>99.5</b>	<b>107.8</b>	<b>92.6</b>
Sugarcane (Gur) . . . . .	85.5	92.9	96.7	97.3	100.0	100.6	99.1	95.5	96.6	96.9	98.0	105.2	104.9
Tobacco . . . . .	119.8	94.6	96.7	85.2	100.0	117.0	103.8	125.4	103.1	115.9	131.2	108.3	105.8
Potatoes . . . . .	N.A.	N.A.	N.A.	N.A.	100.0	92.0	97.5	92.3	100.0	95.3	93.8	95.3	96.1
Chillies (Dry) . . . . .	88.9	85.5	96.4	88.3	100.0	93.7	95.0	115.3	131.0	124.1	124.4	128.2	127.4
<b>MISCELLANEOUS CROPS</b> . . . . .	<b>90.8</b>	<b>87.7</b>	<b>93.3</b>	<b>92.7</b>	<b>100.0</b>	<b>103.1</b>	<b>103.9</b>	<b>109.2</b>	<b>115.2</b>	<b>114.1</b>	<b>111.8</b>	<b>117.7</b>	<b>117.5</b>
<b>NON-FOODGRAINS</b> . . . . .	<b>77.0</b>	<b>90.3</b>	<b>93.9</b>	<b>77.1</b>	<b>100.0</b>	<b>105.5</b>	<b>108.7</b>	<b>96.9</b>	<b>134.1</b>	<b>93.2</b>	<b>115.2</b>	<b>118.9</b>	<b>117.5</b>
<b>ALL CROPS</b> . . . . .	<b>78.0</b>	<b>94.6</b>	<b>101.0</b>	<b>87.6</b>	<b>100.0</b>	<b>101.7</b>	<b>105.7</b>	<b>97.4</b>	<b>124.6</b>	<b>105.2</b>	<b>109.9</b>	<b>112.6</b>	<b>113.4</b>

NOTE.—The indices for the years 1963-64 and 1964-65 are generally based on 'Partially Revised' and 'Final Estimates' respectively and are, therefore, subject to revision.

APPENDIX 2-31

*Index Numbers of Area under Crops—Rajasthan*

(Base: Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRINS—</b>													
Rice . . . . .	73.0	75.7	68.3	73.0	100.0	73.5	84.5	107.5	106.4	108.6	124.3	122.0	113.7
Jowar . . . . .	121.4	131.7	135.9	131.7	100.0	123.6	129.2	126.7	120.4	144.2	138.8	120.7	138.1
Bajra . . . . .	82.1	98.2	84.7	86.5	100.0	103.3	106.3	105.2	121.1	116.6	110.6	114.9	128.6
Maize . . . . .	94.6	103.2	108.1	107.3	100.0	117.0	115.8	121.4	129.8	135.6	140.5	133.7	141.4
<b>KHARIF CEREALS—</b>	<b>89.6</b>	<b>103.8</b>	<b>95.0</b>	<b>95.7</b>	<b>100.0</b>	<b>107.4</b>	<b>110.6</b>	<b>110.3</b>	<b>121.5</b>	<b>122.8</b>	<b>118.3</b>	<b>117.7</b>	<b>131.1</b>
Wheat . . . . .	57.1	61.5	68.8	84.9	100.0	78.7	87.2	90.8	78.8	95.4	92.1	83.3	86.8
Barley . . . . .	91.4	88.4	93.3	94.2	100.0	86.4	91.9	94.7	81.0	95.2	81.8	71.8	73.6
<b>RABI CEREALS</b>	<b>67.5</b>	<b>69.6</b>	<b>76.2</b>	<b>87.7</b>	<b>100.0</b>	<b>81.0</b>	<b>88.7</b>	<b>92.0</b>	<b>79.5</b>	<b>95.3</b>	<b>89.0</b>	<b>79.9</b>	<b>82.8</b>
<b>CEREALS</b>	<b>83.6</b>	<b>94.5</b>	<b>89.9</b>	<b>93.5</b>	<b>100.0</b>	<b>100.2</b>	<b>104.6</b>	<b>105.4</b>	<b>110.1</b>	<b>115.4</b>	<b>110.3</b>	<b>107.5</b>	<b>118.0</b>
Gram . . . . .	42.7	52.6	78.1	88.6	100.0	80.2	100.9	113.1	89.3	105.1	99.0	98.9	87.3
Tur . . . . .	37.5	39.6	72.4	67.1	100.0	95.0	94.5	135.5	132.5	123.8	125.1	124.4	157.5
Other Pulses . . . . .	63.9	63.8	78.1	83.8	100.0	87.2	85.2	96.2	81.0	89.3	87.6	82.7	91.9
<b>PULSES</b>	<b>54.5</b>	<b>58.8</b>	<b>78.1</b>	<b>85.8</b>	<b>100.0</b>	<b>84.2</b>	<b>92.1</b>	<b>101.8</b>	<b>84.9</b>	<b>96.4</b>	<b>92.8</b>	<b>90.0</b>	<b>90.2</b>
<b>FOODGRAINS</b>	<b>74.0</b>	<b>82.6</b>	<b>86.1</b>	<b>91.0</b>	<b>100.0</b>	<b>94.9</b>	<b>100.5</b>	<b>104.9</b>	<b>101.7</b>	<b>109.1</b>	<b>104.5</b>	<b>101.7</b>	<b>108.8</b>



## II. NON-FOODGRAINS—

Groundnut . . . . .	41.4	31.7	75.7	63.3	100.0	102.8	99.2	126.6	149.8	177.2	265.8	283.4	292.5
Sesamum . . . . .	73.0	98.1	112.3	81.3	100.0	92.6	102.5	116.1	87.8	107.4	130.7	101.2	120.2
Rapeseed and Mustard . . . . .	28.2	45.8	78.8	91.6	100.0	130.1	89.3	73.9	76.7	100.3	120.5	114.8	77.8
Castorseed . . . . .	21.7	43.9	28.6	64.3	100.0	47.8	77.6	82.9	42.3	61.8	58.6	51.6	18.5
Linseed . . . . .	42.6	42.0	46.8	78.7	100.0	63.8	78.7	81.0	54.5	58.8	72.7	78.4	58.8
<b>OILSEEDS . . . . .</b>	<b>53.5</b>	<b>70.0</b>	<b>89.9</b>	<b>82.4</b>	<b>100.0</b>	<b>98.9</b>	<b>94.8</b>	<b>99.5</b>	<b>83.7</b>	<b>102.5</b>	<b>128.1</b>	<b>114.0</b>	<b>110.7</b>
Cotton . . . . .	66.0	78.9	92.7	109.3	100.0	105.6	112.9	106.8	90.4	106.2	87.1	105.2	117.3
Sann hemp . . . . .	35.2	49.8	103.0	99.0	100.0	96.6	102.3	36.0	27.5	39.0	62.6	128.7	126.8
<b>FIBRES . . . . .</b>	<b>63.7</b>	<b>76.6</b>	<b>93.4</b>	<b>108.4</b>	<b>100.0</b>	<b>104.9</b>	<b>112.1</b>	<b>101.5</b>	<b>85.6</b>	<b>101.0</b>	<b>85.3</b>	<b>107.0</b>	<b>118.0</b>
Sugarcane . . . . .	55.4	54.4	64.9	78.4	100.0	101.0	59.0	83.0	122.4	100.8	97.1	88.1	127.3
Chillies . . . . .	56.1	88.4	128.9	76.6	100.0	106.7	91.6	119.1	153.0	103.1	112.6	144.6	137.3
Tobacco . . . . .	84.4	86.4	59.7	80.9	100.0	40.6	67.8	74.8	68.1	69.9	57.3	68.3	104.5
Potatoes . . . . .	49.3	65.5	94.6	75.3	100.0	101.4	92.3	81.3	101.6	115.9	139.8	116.9	118.7
Ginger . . . . .	58.8	52.6	104.1	154.6	100.0	78.4	55.7	75.3	83.0	147.9	143.8	90.7	176.3
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>59.3</b>	<b>70.1</b>	<b>86.0</b>	<b>78.2</b>	<b>100.0</b>	<b>94.8</b>	<b>71.6</b>	<b>93.7</b>	<b>124.7</b>	<b>97.8</b>	<b>97.9</b>	<b>104.7</b>	<b>127.4</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>55.7</b>	<b>71.3</b>	<b>90.4</b>	<b>87.1</b>	<b>100.0</b>	<b>99.8</b>	<b>96.9</b>	<b>99.6</b>	<b>86.2</b>	<b>102.0</b>	<b>118.4</b>	<b>112.2</b>	<b>112.9</b>
<b>ALL CROPS . . . . .</b>	<b>72.0</b>	<b>81.4</b>	<b>86.5</b>	<b>90.6</b>	<b>100.0</b>	<b>95.4</b>	<b>100.1</b>	<b>104.3</b>	<b>100.2</b>	<b>108.3</b>	<b>106.0</b>	<b>102.8</b>	<b>109.2</b>

NOTES.—1. The base of the original series constructed by the State Government is quadrennium ending 1955-56.

2. The indices for the years 1962-63 and 1963-64 are generally based on the 'Partially Revised Estimates', while those for 1964-65 are generally based on 'Final Estimates'. The indices for these years are therefore, subject to revision.

APPENDIX 2-32

*Index Numbers of Agricultural Production—Rajasthan*

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight*	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS—</b>														
Rice . . . . .	3.195	49.8	96.5	90.7	98.8	100.0	24.9	99.2	133.4	74.8	102.4	114.4	148.5	112.5
Jowar . . . . .	6.272	174.5	190.0	240.0	101.1	100.0	150.6	158.7	152.5	136.5	144.3	194.5	126.8	187.2
Bajra . . . . .	12.027	111.2	213.7	91.9	130.4	100.0	147.6	179.7	184.5	134.5	196.5	175.2	150.3	231.9
Maize . . . . .	7.949	86.2	191.6	174.1	160.2	100.0	171.6	164.4	159.5	197.3	214.2	234.4	185.2	236.7
<b>KHARIF CEREALS . . . . .</b>	<b>29.443</b>	<b>111.8</b>	<b>190.0</b>	<b>145.5</b>	<b>128.8</b>	<b>100.0</b>	<b>141.4</b>	<b>162.4</b>	<b>165.4</b>	<b>145.4</b>	<b>180.0</b>	<b>188.7</b>	<b>154.5</b>	<b>210.7</b>
Wheat . . . . .	21.766	62.3	52.6	66.5	81.8	100.0	62.8	78.3	78.7	75.5	94.9	81.5	64.8	82.1
Barley . . . . .	10.192	99.1	78.4	82.2	81.0	100.0	72.1	83.9	88.3	76.4	93.4	72.7	61.6	65.2
<b>RABI CEREALS . . . . .</b>	<b>31.958</b>	<b>74.0</b>	<b>60.8</b>	<b>71.5</b>	<b>81.5</b>	<b>100.0</b>	<b>65.8</b>	<b>80.1</b>	<b>81.8</b>	<b>75.8</b>	<b>94.4</b>	<b>78.7</b>	<b>63.8</b>	<b>76.7</b>
<b>CEREALS . . . . .</b>	<b>61.401</b>	<b>91.9</b>	<b>122.8</b>	<b>107.0</b>	<b>104.2</b>	<b>100.0</b>	<b>102.1</b>	<b>119.6</b>	<b>121.9</b>	<b>109.2</b>	<b>135.4</b>	<b>131.4</b>	<b>107.3</b>	<b>141.0</b>
Gram . . . . .	9.538	29.8	28.0	52.8	63.4	100.0	49.3	95.3	66.1	77.2	84.2	64.4	45.6	59.8
Tur . . . . .	0.049	36.0	27.3	59.1	60.9	100.0	97.7	69.0	130.2	121.8	164.1	156.0	148.5	223.7
Other Pulses . . . . .	6.695	36.4	52.4	68.2	89.5	100.0	80.5	93.0	96.7	70.8	106.4	120.4	73.6	99.3
<b>PULSES . . . . .</b>	<b>16.282</b>	<b>32.5</b>	<b>38.0</b>	<b>59.2</b>	<b>74.1</b>	<b>100.0</b>	<b>62.3</b>	<b>94.6</b>	<b>78.9</b>	<b>74.7</b>	<b>93.6</b>	<b>87.7</b>	<b>57.4</b>	<b>76.5</b>
<b>FOODGRAINS . . . . .</b>	<b>77.683</b>	<b>79.5</b>	<b>105.0</b>	<b>97.0</b>	<b>97.9</b>	<b>100.0</b>	<b>93.8</b>	<b>114.4</b>	<b>112.9</b>	<b>102.0</b>	<b>126.6</b>	<b>122.2</b>	<b>96.8</b>	<b>127.5</b>

II. NON-FOODGRAINS—

Groundnut . . . . .	0.648	32.3	32.3	102.0	94.9	100.0	95.4	121.3	118.3	130.5	162.7	312.6	245.1	248.3
Sesamum . . . . .	3.730	72.8	115.8	119.5	81.5	100.0	91.5	197.4	114.6	43.9	116.3	139.8	50.0	101.2
Rapeseed and Mustard . . . . .	2.089	22.2	31.6	75.9	85.1	100.0	92.8	50.3	42.2	59.3	85.0	104.4	34.3	62.3
Castorseed . . . . .	0.010	19.7	36.4	27.5	58.8	100.0	63.6	74.1	76.7	25.0	65.0	62.2	46.8	16.9
Linseed . . . . .	0.960	48.0	58.8	68.7	101.8	100.0	67.2	90.8	85.3	70.6	67.9	93.8	96.0	70.4
<b>OILSEEDS</b> . . . . .	<b>7.437</b>	<b>61.8</b>	<b>77.3</b>	<b>99.0</b>	<b>86.3</b>	<b>100.0</b>	<b>89.0</b>	<b>135.5</b>	<b>90.8</b>	<b>59.2</b>	<b>105.2</b>	<b>138.9</b>	<b>68.5</b>	<b>99.0</b>
Cotton . . . . .	0.993	35.3	73.3	71.4	108.3	100.0	128.0	86.4	88.2	87.6	100.1	95.2	109.6	110.5
Sann-hemp . . . . .	0.189	50.2	72.7	149.8	101.1	100.0	77.2	98.9	41.3	29.4	42.5	79.3	77.2	78.8
<b>FIBRES</b> . . . . .	<b>1.182</b>	<b>37.7</b>	<b>73.2</b>	<b>83.9</b>	<b>107.1</b>	<b>100.0</b>	<b>119.9</b>	<b>88.4</b>	<b>80.7</b>	<b>78.3</b>	<b>90.9</b>	<b>92.7</b>	<b>104.4</b>	<b>105.4</b>
Sugarcane (Gur) . . . . .	1.988	60.1	61.7	71.5	66.7	100.0	105.7	61.4	87.6	145.2	114.6	119.9	83.5	97.6
Chillies (Dry) . . . . .	1.162	56.5	91.5	129.4	77.2	100.0	103.3	95.2	153.8	190.5	181.9	135.3	140.4	139.8
Tobacco . . . . .	0.473	78.9	97.1	65.3	89.9	100.0	39.1	68.9	78.8	98.2	80.7	75.5	78.2	115.1
Potatoes . . . . .	0.071	41.9	69.2	119.5	79.0	100.0	86.8	94.2	40.2	77.3	106.3	148.8	124.4	124.6
Ginger (Dry) . . . . .	0.004	70.8	59.3	113.3	159.3	100.0	67.3	58.4	76.1	226.6	77.0	182.3	195.6	303.5
<b>MISCELLANEOUS CROPS</b> . . . . .	<b>13.698</b>	<b>60.4</b>	<b>65.5</b>	<b>76.5</b>	<b>68.5</b>	<b>100.0</b>	<b>103.1</b>	<b>64.7</b>	<b>92.7</b>	<b>147.1</b>	<b>119.1</b>	<b>119.8</b>	<b>88.4</b>	<b>102.0</b>
<b>NON-FOODGRAINS</b> . . . . .	<b>22.317</b>	<b>56.3</b>	<b>69.8</b>	<b>84.4</b>	<b>76.5</b>	<b>100.0</b>	<b>99.3</b>	<b>89.5</b>	<b>91.4</b>	<b>114.2</b>	<b>113.0</b>	<b>124.7</b>	<b>82.6</b>	<b>101.2</b>
<b>ALL CROPS</b> . . . . .	<b>100.000</b>	<b>74.2</b>	<b>97.1</b>	<b>94.2</b>	<b>93.1</b>	<b>100.0</b>	<b>95.0</b>	<b>108.8</b>	<b>108.1</b>	<b>104.7</b>	<b>123.6</b>	<b>122.8</b>	<b>93.6</b>	<b>121.6</b>

\*The weights relate to the quadrennium ending 1955-56.

NOTES.—1. The base of the original series constructed by the State Government is the quadrennium ending 1955-56.

2. The indices for the years 1962-63 and 1963-64 are generally based on the 'Partially Revised Estimates' while those for 1964-65 are generally based on 'Final Estimates'. The indices for these years are, therefore, subject to revision.

APPENDIX 2-33

*Index Numbers of Agricultural Productivity—Rajasthan*

(Base: Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	68.2	127.5	132.8	135.3	100.0	33.9	117.4	124.1	70.3	94.3	92.0	121.7	98.9
Jowar . . . . .	143.7	144.3	176.6	76.8	100.0	121.8	122.8	104.6	113.4	100.1	140.1	105.1	135.6
Bajra . . . . .	135.4	217.6	108.5	150.8	100.0	142.9	169.0	175.4	111.1	168.5	158.4	130.8	180.3
Maize . . . . .	91.1	185.7	161.1	149.3	100.0	146.7	142.0	131.4	152.0	158.0	166.8	138.5	167.4
<b>KHARIF CEREALS . . . . .</b>	<b>124.2</b>	<b>183.0</b>	<b>153.2</b>	<b>134.6</b>	<b>100.0</b>	<b>131.7</b>	<b>146.8</b>	<b>150.0</b>	<b>119.7</b>	<b>146.6</b>	<b>159.5</b>	<b>131.3</b>	<b>160.7</b>
Wheat . . . . .	109.1	85.5	96.7	96.3	100.0	79.8	89.8	86.7	95.8	99.5	88.5	77.8	94.6
Barley . . . . .	108.4	88.7	88.1	86.0	100.0	83.4	91.3	93.2	94.3	98.1	88.9	85.8	88.6
<b>RABI CEREALS . . . . .</b>	<b>109.6</b>	<b>87.4</b>	<b>93.8</b>	<b>92.9</b>	<b>100.0</b>	<b>81.2</b>	<b>90.3</b>	<b>88.9</b>	<b>95.3</b>	<b>99.1</b>	<b>88.4</b>	<b>79.8</b>	<b>92.6</b>
<b>CEREALS . . . . .</b>	<b>109.9</b>	<b>129.9</b>	<b>119.0</b>	<b>111.4</b>	<b>100.0</b>	<b>101.9</b>	<b>114.3</b>	<b>115.7</b>	<b>99.2</b>	<b>117.3</b>	<b>119.1</b>	<b>99.8</b>	<b>119.5</b>
Gram . . . . .	69.8	53.2	67.6	71.6	100.0	61.5	94.4	58.4	86.5	80.1	65.1	46.1	68.5
Tur . . . . .	96.0	68.9	81.6	90.8	100.0	102.8	73.0	96.1	91.9	132.6	124.7	119.4	142.0
Other Pulses . . . . .	57.0	82.1	87.3	106.8	100.0	92.3	110.2	100.5	87.4	119.1	137.4	89.0	108.1
<b>PULSES . . . . .</b>	<b>59.6</b>	<b>64.6</b>	<b>75.8</b>	<b>86.4</b>	<b>100.0</b>	<b>74.0</b>	<b>102.7</b>	<b>77.5</b>	<b>88.0</b>	<b>97.1</b>	<b>94.5</b>	<b>63.8</b>	<b>84.8</b>
<b>FOODGRAINS . . . . .</b>	<b>107.4</b>	<b>127.1</b>	<b>112.7</b>	<b>107.6</b>	<b>100.0</b>	<b>98.8</b>	<b>113.8</b>	<b>107.6</b>	<b>100.3</b>	<b>116.0</b>	<b>116.9</b>	<b>95.2</b>	<b>117.2</b>

II. NON-FOODGRAINS—

Groundnut . . . . .	78.0	101.9	134.7	149.9	100.0	92.8	122.3	93.4	87.1	91.8	117.6	86.5	84.9
Sesamum . . . . .	99.7	118.0	106.4	100.2	100.0	98.8	192.6	98.7	50.0	108.3	107.0	49.4	84.2
Rapeseed and Mustard . . . . .	78.7	69.0	96.3	92.9	100.0	71.3	56.3	57.1	77.3	84.7	86.6	29.9	106.0
Castorseed . . . . .	90.8	82.9	96.2	91.4	100.0	133.1	95.5	92.5	59.1	105.2	106.1	90.7	91.4
Linseed . . . . .	112.7	140.0	146.8	129.4	100.0	105.3	115.4	105.3	129.5	115.5	129.0	122.4	119.7
<b>OILSEEDS</b> . . . . .	<b>96.8</b>	<b>110.4</b>	<b>110.1</b>	<b>104.7</b>	<b>100.0</b>	<b>90.0</b>	<b>142.9</b>	<b>91.3</b>	<b>70.7</b>	<b>102.6</b>	<b>108.4</b>	<b>60.1</b>	<b>89.4</b>
Cotton . . . . .	53.5	92.9	77.0	99.1	100.0	121.2	76.5	82.6	96.9	94.3	109.3	104.2	94.2
Sann hemp . . . . .	142.6	146.0	145.4	102.1	100.0	79.9	96.7	114.7	106.9	109.0	126.7	60.0	62.1
<b>FIBRES</b> . . . . .	<b>59.2</b>	<b>95.6</b>	<b>89.8</b>	<b>98.8</b>	<b>100.0</b>	<b>114.3</b>	<b>78.9</b>	<b>79.5</b>	<b>91.5</b>	<b>89.8</b>	<b>108.7</b>	<b>97.6</b>	<b>89.3</b>
Sugarcane (Gur) . . . . .	108.5	113.4	110.2	85.1	100.0	104.7	104.1	105.5	118.6	113.7	123.5	94.8	76.7
Chillies (Dry) . . . . .	100.7	103.5	100.4	100.8	100.0	96.8	103.9	129.1	124.5	176.4	120.2	97.1	101.8
Tobacco . . . . .	93.5	112.4	109.4	111.1	100.0	96.3	101.6	105.3	144.2	115.5	96.8	114.5	110.1
Potatoes . . . . .	85.0	105.6	126.3	104.9	100.0	85.6	102.1	49.4	76.1	91.7	106.4	106.4	105.0
Ginger (Dry) . . . . .	120.4	112.7	108.8	103.0	100.0	85.8	104.8	101.1	273.0	52.1	126.8	215.7	172.1
<b>MISCELLANEOUS CROPS</b> . . . . .	<b>101.9</b>	<b>93.4</b>	<b>89.0</b>	<b>87.6</b>	<b>100.0</b>	<b>108.9</b>	<b>90.4</b>	<b>98.9</b>	<b>118.0</b>	<b>121.8</b>	<b>122.4</b>	<b>84.4</b>	<b>80.1</b>
<b>NON-FOODGRAINS</b> . . . . .	<b>101.1</b>	<b>97.9</b>	<b>93.4</b>	<b>87.8</b>	<b>100.0</b>	<b>99.5</b>	<b>92.4</b>	<b>91.8</b>	<b>132.5</b>	<b>110.8</b>	<b>105.3</b>	<b>73.6</b>	<b>89.6</b>
<b>ALL CROPS</b> . . . . .	<b>103.1</b>	<b>119.3</b>	<b>108.9</b>	<b>102.8</b>	<b>100.0</b>	<b>99.6</b>	<b>108.7</b>	<b>103.6</b>	<b>104.5</b>	<b>114.1</b>	<b>115.8</b>	<b>91.1</b>	<b>111.4</b>

NOTE.—The indices for the years 1962-63 and 1963-64 are generally based on the 'Partially Revised Estimates' while those for 1964-65 are generally based on 'Final Estimates'. The indices for these years are, therefore, subject to revision.

APPENDIX 2-34

*Index Numbers of Area under Crops—Andhra Pradesh*

(Base: Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	79.9	88.6	88.6	93.0	100.0	96.7	102.8	105.2	101.2	108.1	118.7	114.7	111.6
Jowar . . . . .	106.3	100.0	96.2	101.7	100.0	102.8	105.9	103.7	108.7	106.4	106.0	104.4	99.5
Bajra . . . . .	107.2	120.5	107.4	107.1	100.0	97.7	107.3	103.9	101.5	103.0	100.4	99.2	99.9
Maize . . . . .	93.6	99.8	100.0	100.9	100.0	109.5	101.5	98.7	96.8	104.6	110.0	107.8	102.4
Ragi . . . . .	103.3	113.5	110.5	106.1	100.0	105.4	111.8	111.4	117.4	121.7	111.7	113.4	108.7
Small Millets . . . . .	109.6	122.9	116.1	109.7	100.0	97.1	111.0	107.0	98.8	99.8	100.5	91.3	93.0
<b>KHARIF CEREALS . . . . .</b>	<b>96.2</b>	<b>100.9</b>	<b>97.6</b>	<b>100.0</b>	<b>100.0</b>	<b>99.5</b>	<b>105.6</b>	<b>105.0</b>	<b>103.9</b>	<b>106.4</b>	<b>110.0</b>	<b>106.6</b>	<b>103.7</b>
Wheat . . . . .	44.4	61.0	82.3	104.5	100.0	71.7	72.0	92.2	79.0	86.2	84.4	88.1	88.8
<b>RABI CEREALS . . . . .</b>	<b>44.4</b>	<b>61.0</b>	<b>82.3</b>	<b>104.5</b>	<b>100.0</b>	<b>71.7</b>	<b>72.0</b>	<b>92.2</b>	<b>79.0</b>	<b>86.2</b>	<b>84.4</b>	<b>88.1</b>	<b>88.8</b>
<b>CEREALS . . . . .</b>	<b>96.1</b>	<b>100.8</b>	<b>97.5</b>	<b>100.1</b>	<b>100.0</b>	<b>99.4</b>	<b>105.5</b>	<b>104.9</b>	<b>103.8</b>	<b>106.3</b>	<b>109.9</b>	<b>106.5</b>	<b>103.6</b>
Gram . . . . .	96.5	106.0	109.6	115.2	100.0	94.0	91.5	89.4	79.1	79.5	76.0	74.2	74.2
Tur . . . . .	99.0	108.3	99.2	103.4	100.0	103.1	98.7	97.9	92.5	101.8	110.0	108.7	113.1
Other Pulses . . . . .	92.9	101.2	96.2	96.5	100.0	97.3	97.8	102.6	95.6	102.7	109.3	108.2	107.4
<b>PULSES . . . . .</b>	<b>93.9</b>	<b>102.4</b>	<b>97.7</b>	<b>98.9</b>	<b>100.0</b>	<b>97.7</b>	<b>97.4</b>	<b>100.9</b>	<b>93.8</b>	<b>100.6</b>	<b>106.6</b>	<b>105.4</b>	<b>105.3</b>
<b>FOODGRAINS . . . . .</b>	<b>95.8</b>	<b>101.0</b>	<b>97.5</b>	<b>99.9</b>	<b>100.0</b>	<b>99.2</b>	<b>104.3</b>	<b>104.3</b>	<b>102.3</b>	<b>105.5</b>	<b>109.4</b>	<b>106.3</b>	<b>103.9</b>

## II. NON FOODGRAINS—

Groundnut . . . . .	99.8	78.0	94.5	92.8	100.0	95.8	72.2	61.6	60.0	58.6	67.2	73.4	70.9
Sesamum . . . . .	128.4	120.9	103.2	102.0	100.0	97.2	86.2	80.7	76.1	84.8	96.0	83.6	81.8
Linseed . . . . .	67.2	72.8	72.3	82.9	100.0	84.2	79.0	100.0	72.5	63.8	86.3	91.5	92.6
Castorseed . . . . .	104.9	102.6	105.0	101.7	100.0	78.0	77.5	80.4	87.3	88.7	90.6	91.4	87.4
<b>OILSEEDS . . . . .</b>	<b>104.0</b>	<b>87.9</b>	<b>97.1</b>	<b>95.4</b>	<b>100.0</b>	<b>92.7</b>	<b>75.2</b>	<b>68.1</b>	<b>67.1</b>	<b>67.4</b>	<b>75.4</b>	<b>78.2</b>	<b>75.0</b>
Cotton . . . . .	89.0	97.9	100.8	101.0	100.0	84.0	75.7	67.6	77.7	80.7	91.9	105.3	96.6
Mesta . . . . .	104.9	101.6	77.8	99.2	100.0	71.7	96.7	113.8	97.6	139.7	164.9	179.5	194.9
<b>FIBRES . . . . .</b>	<b>90.8</b>	<b>98.3</b>	<b>98.3</b>	<b>100.8</b>	<b>100.0</b>	<b>82.7</b>	<b>78.0</b>	<b>72.7</b>	<b>80.0</b>	<b>87.2</b>	<b>99.9</b>	<b>113.4</b>	<b>107.4</b>
Sugarcane . . . . .	78.9	72.6	92.1	92.1	100.0	99.5	95.8	107.4	119.0	124.8	118.5	161.7	173.8
Tobacco . . . . .	96.9	91.1	79.5	99.7	100.0	90.7	99.0	89.9	89.1	101.0	104.0	132.0	117.4
Chillies . . . . .	74.8	86.4	100.0	98.9	100.0	74.4	59.0	61.3	68.5	62.0	63.8	98.5	89.0
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>84.1</b>	<b>85.7</b>	<b>90.6</b>	<b>98.0</b>	<b>100.0</b>	<b>85.3</b>	<b>81.2</b>	<b>80.8</b>	<b>85.8</b>	<b>88.6</b>	<b>89.4</b>	<b>123.0</b>	<b>115.6</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>99.0</b>	<b>89.2</b>	<b>96.3</b>	<b>96.6</b>	<b>100.0</b>	<b>90.0</b>	<b>76.5</b>	<b>70.7</b>	<b>71.9</b>	<b>73.6</b>	<b>81.3</b>	<b>90.3</b>	<b>86.5</b>
<b>ALL CROPS . . . . .</b>	<b>96.5</b>	<b>98.2</b>	<b>97.2</b>	<b>99.1</b>	<b>100.0</b>	<b>97.0</b>	<b>97.6</b>	<b>96.2</b>	<b>95.0</b>	<b>97.8</b>	<b>102.6</b>	<b>102.4</b>	<b>99.7</b>

NOTE.—Index Numbers for the years 1963-64 and 1964-65 are based on 'Partially Revised Estimates' and 'Final Estimates' of area respectively. The index numbers for these years are, therefore, subject to revision.

## APPENDIX 2.35

### *Index Numbers of Agricultural Production—Andhra Pradesh*

(Base: Agricultural Year 1956-57=100)

Crop/Group	Weight 1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS—</b>														
Rice . . . . .	44.14	73.6	91.8	92.7	91.0	100.0	98.2	110.5	112.6	107.5	124.7	124.6	127.5	135.2
Jowar . . . . .	10.29	108.8	98.5	113.7	103.7	100.0	114.9	132.3	133.3	120.5	124.3	126.7	126.5	109.3
Bajra . . . . .	2.55	93.2	125.9	85.4	105.1	100.0	109.2	116.0	105.8	97.6	115.6	117.3	111.5	102.7
Maize . . . . .	0.95	177.7	130.1	124.3	108.7	100.0	114.6	153.4	95.6	147.6	157.3	156.3	156.3	180.6
Ragi . . . . .	2.31	78.0	80.1	78.3	76.9	100.0	81.5	90.6	116.1	83.6	103.2	100.1	99.4	89.2
Small Millets . . . . .	2.80	92.9	117.2	113.2	109.1	100.0	95.7	113.7	104.8	95.2	100.8	103.3	100.8	101.1
<b>KHARIF CEREALS . . . . .</b>	<b>63.04</b>	<b>82.7</b>	<b>95.6</b>	<b>96.7</b>	<b>94.2</b>	<b>100.0</b>	<b>100.9</b>	<b>114.3</b>	<b>115.2</b>	<b>108.4</b>	<b>122.9</b>	<b>123.3</b>	<b>124.9</b>	<b>127.1</b>
Wheat . . . . .	0.07	41.7	73.6	111.9	132.5	100.0	79.6	78.6	93.7	77.4	85.9	92.4	98.7	100.9
<b>RABI CEREALS . . . . .</b>	<b>0.07</b>	<b>41.7</b>	<b>73.6</b>	<b>111.9</b>	<b>132.5</b>	<b>100.0</b>	<b>79.6</b>	<b>78.6</b>	<b>93.7</b>	<b>77.4</b>	<b>85.9</b>	<b>92.4</b>	<b>98.7</b>	<b>100.9</b>
<b>CEREALS . . . . .</b>	<b>63.11</b>	<b>82.7</b>	<b>95.6</b>	<b>96.7</b>	<b>94.2</b>	<b>100.0</b>	<b>100.9</b>	<b>114.3</b>	<b>115.2</b>	<b>108.4</b>	<b>122.9</b>	<b>123.3</b>	<b>124.9</b>	<b>127.1</b>
Gram . . . . .	0.32	115.3	130.5	128.3	130.2	100.0	101.5	93.6	81.5	74.8	82.6	82.1	79.2	80.3
Tur . . . . .	0.37	99.8	120.7	108.8	104.0	100.0	100.8	97.9	89.6	77.0	80.8	54.4	69.2	96.3
Other Pulses . . . . .	1.65	90.1	112.1	110.3	96.3	100.0	93.0	196.1	07.2	96.8	105.1	115.6	118.0	115.0
<b>PULSES . . . . .</b>	<b>2.34</b>	<b>95.1</b>	<b>116.0</b>	<b>112.3</b>	<b>102.2</b>	<b>100.0</b>	<b>95.4</b>	<b>96.0</b>	<b>100.9</b>	<b>90.7</b>	<b>98.2</b>	<b>101.3</b>	<b>105.0</b>	<b>107.3</b>
<b>FOODGRAINS . . . . .</b>	<b>65.45</b>	<b>83.1</b>	<b>96.3</b>	<b>97.3</b>	<b>94.5</b>	<b>100.0</b>	<b>100.7</b>	<b>113.6</b>	<b>114.7</b>	<b>107.8</b>	<b>122.0</b>	<b>122.5</b>	<b>124.2</b>	<b>126.4</b>



II. NON-FOODGRAINS—

Groundnut	. . .	13.80	84.3	77.6	87.8	88.9	100.0	91.7	74.6	71.3	65.7	65.6	62.8	71.4	82.0	
Sesamum	. . .	1.28	142.1	117.3	109.8	100.4	100.0	89.1	85.3	82.6	75.2	88.5	118.8	93.0	84.8	
Linseed	. . .	0.07	85.0	68.0	85.0	71.4	100.0	92.4	63.9	82.3	59.7	61.6	78.4	87.8	88.5	
Castorseed	. . .	0.98	90.6	81.8	98.6	97.9	100.0	49.8	68.5	82.2	88.5	83.5	72.8	72.7	74.8	
<hr/>																
OILSEEDS	. . .	16.13	89.3	81.0	90.2	90.3	100.0	89.0	75.0	72.9	67.8	68.5	67.9	73.3	81.8	
<hr/>																
Cotton	. . .	2.21	81.9	87.1	109.2	100.7	100.0	101.6	91.3	75.4	89.9	93.8	91.4	105.6	110.3	
Mesta	. . .	0.89	101.9	108.9	81.4	102.3	100.0	66.3	101.6	111.2	90.3	138.1	171.9	179.3	190.2	
<hr/>																
FIBRES	. . .	3.10	87.6	93.3	101.2	101.2	100.0	91.5	94.3	85.7	89.9	106.5	114.5	126.8	133.2	
<hr/>																
Sugarcane (Gur)	. . .	5.82	65.3	60.3	81.9	83.5	100.0	102.9	107.9	113.1	129.2	125.6	130.4	171.4	185.1	
Tobacco	. . .	5.11	78.9	91.7	79.7	98.5	100.0	85.7	100.0	82.7	83.4	93.9	97.7	130.0	130.0	
Chillies (Dry)	. . .	4.39	62.4	80.0	91.3	94.4	100.0	68.7	63.8	67.0	70.4	71.1	74.8	109.9	103.0	
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MISCELLANEOUS CROPS	. . .	15.32	69.0	76.4	83.9	91.6	100.0	87.4	92.6	89.7	97.1	99.4	103.6	140.0	143.2	
<hr/>																
NON-FOODGRAINS	. . .	34.55	80.1	80.1	88.4	91.9	100.0	88.5	84.5	81.5	82.8	85.6	87.9	107.7	113.6	
<hr/>																
ALL CROPS	. . .	100.00	82.1	90.7	94.2	93.6	100.0	96.5	103.5	103.2	99.2	109.4	110.5	118.5	122.0	

NOTE.—Index numbers for the years 1963-64 and 1964-65 are based on 'Partially Revised Estimates' and 'Final Estimates' of production respectively. The index numbers for these years are, therefore, subject to revision.

## APPENDIX 2-36

### *Index Numbers of Agricultural Productivity—Andhra Pradesh*

(Base: Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	92.1	103.6	104.6	97.8	100.0	101.6	107.5	107.0	106.2	115.4	105.0	111.2	121.1
Jowar . . . . .	102.4	98.5	118.2	102.0	100.0	111.8	124.9	128.5	110.9	116.8	119.5	121.2	109.8
Bajra . . . . .	86.9	104.5	79.5	98.1	100.0	111.8	108.1	101.8	96.2	112.2	116.8	112.4	102.8
Maize . . . . .	189.9	130.4	124.3	107.7	100.0	104.7	151.1	96.9	152.5	150.4	142.1	145.0	176.4
Ragi . . . . .	75.4	70.5	70.9	72.5	100.0	87.2	102.0	117.6	80.4	84.8	89.6	87.7	82.1
Small Millets . . . . .	84.8	95.4	97.5	99.5	100.0	98.6	102.4	97.9	96.4	101.0	102.8	110.4	108.7
<b>KHARIF CEREALS . . . . .</b>													
Wheat . . . . .	93.9	120.7	136.0	126.8	100.0	111.3	109.4	102.0	98.2	99.7	109.5	112.0	113.6
<b>RABI CEREALS . . . . .</b>													
Wheat . . . . .	93.9	120.7	136.0	126.8	100.0	111.3	109.4	102.0	98.2	99.7	109.5	112.0	113.6
<b>CEREALS . . . . .</b>													
Gram . . . . .	119.5	123.1	115.2	113.0	100.0	108.0	103.4	91.2	94.4	103.9	108.0	106.7	108.2
Tur . . . . .	100.8	111.4	109.7	100.6	100.0	97.8	99.2	91.5	83.2	79.4	49.5	63.7	85.1
Other Pulses . . . . .	97.0	110.8	114.7	99.8	100.0	95.6	98.3	104.5	101.3	102.3	105.8	109.1	107.1
<b>PULSES . . . . .</b>													
Gram . . . . .	101.3	113.4	114.9	103.3	100.0	97.6	98.6	100.0	96.7	97.6	95.0	99.6	101.9
<b>FOODGRAINS . . . . .</b>													
Wheat . . . . .	86.7	95.3	99.8	94.6	100.0	101.9	109.8	110.5	105.8	115.6	112.0	116.8	121.7

II. NON-FOODGRAINS—

Groundnut	84.5	99.5	92.9	95.8	100.0	95.7	103.3	115.7	109.5	111.9	93.5	97.3	115.7
Sesamum	110.7	97.0	106.4	98.4	100.0	91.7	99.0	102.4	98.8	104.4	123.8	111.2	103.7
Linseed	126.3	93.3	117.6	86.1	100.0	109.7	80.9	82.3	82.3	96.6	90.8	96.0	95.6
Castorseed	86.4	79.7	93.9	96.3	100.0	63.8	88.4	102.2	101.4	94.1	80.4	79.5	85.6
<b>OILSEEDS</b>	<b>85.9</b>	<b>92.1</b>	<b>92.9</b>	<b>94.7</b>	<b>100.0</b>	<b>96.0</b>	<b>99.7</b>	<b>107.0</b>	<b>101.0</b>	<b>101.6</b>	<b>90.1</b>	<b>93.7</b>	<b>108.2</b>
Cotton	92.0	88.9	108.3	99.7	100.0	121.0	120.6	111.5	115.6	116.2	99.5	100.3	114.2
Mesta	97.0	107.2	104.6	103.1	100.0	92.5	105.1	97.8	92.5	98.9	104.2	99.9	97.6
<b>FIBRES</b>	<b>96.5</b>	<b>94.9</b>	<b>103.0</b>	<b>100.4</b>	<b>100.0</b>	<b>110.6</b>	<b>120.9</b>	<b>118.0</b>	<b>112.4</b>	<b>122.1</b>	<b>114.6</b>	<b>111.8</b>	<b>124.0</b>
Sugarcane (Gur)	82.8	83.1	88.9	90.7	100.0	103.4	112.6	105.3	108.6	100.6	110.0	106.0	106.5
Tobacco	81.4	100.7	100.3	98.9	100.0	94.5	101.0	92.0	93.6	93.0	93.9	98.5	110.7
Chillies (Dry)	83.4	92.6	91.3	95.4	100.0	92.3	108.1	109.3	102.8	114.7	117.2	111.6	115.7
<b>MISCELLANEOUS CROPS</b>	<b>82.0</b>	<b>89.1</b>	<b>92.6</b>	<b>93.5</b>	<b>100.0</b>	<b>102.5</b>	<b>114.0</b>	<b>111.0</b>	<b>113.2</b>	<b>112.2</b>	<b>115.9</b>	<b>113.8</b>	<b>123.9</b>
<b>NON-FOODGRAINS</b>	<b>80.9</b>	<b>89.8</b>	<b>91.8</b>	<b>95.1</b>	<b>100.0</b>	<b>98.3</b>	<b>110.5</b>	<b>115.3</b>	<b>115.2</b>	<b>116.3</b>	<b>108.1</b>	<b>119.3</b>	<b>131.3</b>
<b>ALL CROPS</b>	<b>85.1</b>	<b>92.4</b>	<b>96.9</b>	<b>94.5</b>	<b>100.0</b>	<b>99.5</b>	<b>106.0</b>	<b>107.3</b>	<b>104.4</b>	<b>111.9</b>	<b>107.7</b>	<b>115.7</b>	<b>122.4</b>

NOTE.—Index numbers for the years 1963-64 and 1964-65 are based on 'Partially Revised Estimates' and 'Final Estimates' respectively. The index numbers for these years are, therefore, subject to revision.

APPENDIX 2.37

*Index Numbers of Area under Crops—Madhya Pradesh*

(Base: Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS--</b>													
Rice . . . . .	96.7	97.7	96.8	98.0	100.0	100.7	102.2	104.5	105.8	107.0	108.7	108.4	110.1
Jowar . . . . .	127.1	138.1	130.2	117.4	100.0	120.0	118.3	111.6	127.8	118.8	126.9	122.6	123.9
Bajra . . . . .	116.9	122.8	121.6	111.3	100.0	102.6	103.3	94.6	101.6	96.4	111.4	112.1	112.8
Maize . . . . .	95.2	98.4	95.5	97.1	100.0	103.8	105.2	106.6	109.0	109.2	112.9	113.0	113.1
Small Millets . . . . .	102.5	110.9	114.0	99.9	100.0	102.4	106.2	108.3	103.8	99.1	99.8	101.7	101.5
<b>KHARIF CEREALS . . . . .</b>	<b>104.8</b>	<b>109.6</b>	<b>107.7</b>	<b>102.8</b>	<b>100.0</b>	<b>105.5</b>	<b>106.7</b>	<b>106.7</b>	<b>110.3</b>	<b>108.0</b>	<b>111.3</b>	<b>110.6</b>	<b>111.7</b>
Wheat . . . . .	61.6	65.6	73.2	86.9	100.0	78.5	86.4	97.6	95.2	97.8	99.9	102.5	97.2
Barley . . . . .	74.5	73.7	80.6	89.0	100.0	59.1	84.4	91.1	95.2	98.3	85.4	77.4	76.6
<b>RABI CEREALS . . . . .</b>	<b>62.5</b>	<b>66.2</b>	<b>73.8</b>	<b>87.1</b>	<b>100.0</b>	<b>77.4</b>	<b>86.3</b>	<b>97.3</b>	<b>95.3</b>	<b>97.9</b>	<b>99.1</b>	<b>101.1</b>	<b>96.1</b>
<b>CEREALS . . . . .</b>	<b>91.6</b>	<b>96.0</b>	<b>97.1</b>	<b>97.9</b>	<b>100.0</b>	<b>96.6</b>	<b>100.2</b>	<b>103.6</b>	<b>105.5</b>	<b>104.7</b>	<b>107.3</b>	<b>107.4</b>	<b>106.6</b>
Gram . . . . .	88.0	90.4	89.2	96.5	100.0	95.1	97.2	108.0	96.9	100.5	94.0	103.7	95.1
Tur . . . . .	105.0	118.5	114.0	109.6	100.0	105.3	106.6	105.4	109.8	108.0	109.0	109.8	118.2
Other Pulses . . . . .	99.6	97.5	96.3	99.6	100.0	88.4	104.6	105.7	106.7	109.6	104.5	108.9	117.8
<b>PULSES . . . . .</b>	<b>95.2</b>	<b>96.6</b>	<b>95.1</b>	<b>99.3</b>	<b>100.0</b>	<b>92.9</b>	<b>101.6</b>	<b>106.6</b>	<b>102.8</b>	<b>105.5</b>	<b>100.4</b>	<b>107.6</b>	<b>108.1</b>
<b>FOODGRAINS . . . . .</b>	<b>92.4</b>	<b>96.1</b>	<b>96.5</b>	<b>98.2</b>	<b>100.0</b>	<b>95.7</b>	<b>100.6</b>	<b>104.4</b>	<b>104.9</b>	<b>105.0</b>	<b>105.7</b>	<b>107.6</b>	<b>107.1</b>

II. NON-FOODGRAINS—

Groundnut . . . . .	74.0	59.7	98.5	77.9	100.0	111.7	132.8	131.1	116.1	130.1	147.5	130.3	139.1
Sesamum* . . . . .	96.0	105.9	92.4	107.7	100.0	96.2	109.8	108.5	98.5	102.2	110.7	110.9	111.9
Castorseed . . . . .	68.9	75.8	72.4	69.0	100.0	48.3	81.8	93.2	6.1	72.4	41.4	72.4	41.4
Rapeseed & Mustard . . . . .	83.0	83.3	85.7	95.0	100.0	61.3	100.0	95.2	96.8	109.5	100.0	106.6	109.5
Linseed . . . . .	71.2	71.4	71.8	83.0	100.0	61.0	88.8	96.2	88.0	95.4	88.4	95.3	100.9
<b>OILSEEDS . . . . .</b>	<b>80.6</b>	<b>81.1</b>	<b>84.6</b>	<b>90.8</b>	<b>100.0</b>	<b>81.7</b>	<b>104.7</b>	<b>106.6</b>	<b>97.2</b>	<b>105.2</b>	<b>107.4</b>	<b>107.7</b>	<b>112.0</b>
Cotton . . . . .	107.9	109.6	123.4	127.8	100.0	104.5	111.1	93.3	99.8	118.0	88.5	99.0	117.0
Mesta . . . . .	113.2	108.8	104.4	104.4	100.0	91.3	100.0	95.6	104.3	73.9	86.9	95.6	95.6
San-nhemp . . . . .	88.0	100.0	99.1	124.1	100.0	83.9	82.1	78.5	65.1	75.8	72.2	81.1	81.0
<b>FIBRES . . . . .</b>	<b>106.8</b>	<b>109.0</b>	<b>121.8</b>	<b>127.3</b>	<b>100.0</b>	<b>103.2</b>	<b>109.3</b>	<b>92.5</b>	<b>97.9</b>	<b>115.2</b>	<b>87.6</b>	<b>98.0</b>	<b>114.9</b>
Sugarcane . . . . .	58.4	49.2	54.6	76.9	100.0	89.2	65.4	76.2	95.4	104.6	106.9	101.5	132.3
Tobacco . . . . .	93.8	118.8	87.5	100.0	100.0	50.0	68.8	68.8	62.5	62.5	56.2	43.7	56.2
Potatoes . . . . .	85.7	90.5	90.5	90.5	100.0	114.3	128.6	138.1	142.9	142.9	157.2	157.2	162.0
Chillies . . . . .	74.0	86.0	99.0	89.0	100.0	105.0	91.0	101.0	112.0	92.0	98.0	115.0	104.0
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>68.5</b>	<b>70.4</b>	<b>76.0</b>	<b>83.9</b>	<b>100.0</b>	<b>94.8</b>	<b>80.2</b>	<b>89.9</b>	<b>103.4</b>	<b>100.4</b>	<b>104.5</b>	<b>107.5</b>	<b>119.5</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>88.2</b>	<b>89.3</b>	<b>95.7</b>	<b>101.7</b>	<b>100.0</b>	<b>88.9</b>	<b>105.2</b>	<b>101.6</b>	<b>97.7</b>	<b>108.1</b>	<b>101.2</b>	<b>104.7</b>	<b>113.2</b>
<b>ALL CROPS . . . . .</b>	<b>91.8</b>	<b>95.0</b>	<b>96.4</b>	<b>98.8</b>	<b>100.0</b>	<b>94.7</b>	<b>101.4</b>	<b>104.1</b>	<b>103.9</b>	<b>105.6</b>	<b>105.2</b>	<b>107.3</b>	<b>108.2</b>

\*Sesamum includes nigerseed also.

APPENDIX 2.38

*Index Numbers of Agricultural Production—Madhya Pradesh*

(Base: Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS—</b>														
Rice . . . . .	45.97	77.8	80.0	75.4	89.0	100.0	64.0	100.4	96.6	104.0	105.2	70.8	99.6	104.9
Jowar . . . . .	14.55	95.3	119.8	110.3	71.4	100.0	127.7	115.0	105.4	134.2	79.8	138.2	120.6	156.7
Bajra . . . . .	0.32	107.2	127.5	134.8	123.2	100.0	121.1	93.3	100.0	125.6	72.2	147.7	155.5	154.4
Maize . . . . .	0.49	83.4	102.6	104.5	102.6	100.0	98.4	118.5	77.9	135.2	109.8	117.3	152.5	139.1
Small Millets . . . . .	0.70	114.8	139.1	141.0	121.5	100.0	67.3	150.7	119.9	118.1	104.8	88.0	123.4	114.6
<b>KHARIF CEREALS . . . . .</b>	<b>62.03</b>	<b>82.5</b>	<b>90.4</b>	<b>84.9</b>	<b>85.5</b>	<b>100.0</b>	<b>79.5</b>	<b>104.5</b>	<b>98.8</b>	<b>111.6</b>	<b>99.1</b>	<b>87.6</b>	<b>105.5</b>	<b>117.7</b>
Wheat . . . . .	19.98	65.0	70.7	82.3	90.4	100.0	64.8	96.5	112.8	95.1	106.0	104.8	93.4	96.4
Barley . . . . .	0.36	89.3	77.9	102.3	113.7	100.0	45.8	104.0	98.4	107.1	134.3	79.2	61.3	92.9
<b>RABI CEREALS . . . . .</b>	<b>20.34</b>	<b>65.4</b>	<b>70.8</b>	<b>82.7</b>	<b>90.8</b>	<b>100.0</b>	<b>64.5</b>	<b>96.6</b>	<b>112.5</b>	<b>95.3</b>	<b>106.5</b>	<b>104.3</b>	<b>92.8</b>	<b>96.3</b>
<b>CEREALS . . . . .</b>	<b>82.37</b>	<b>78.3</b>	<b>85.6</b>	<b>84.4</b>	<b>86.8</b>	<b>100.0</b>	<b>75.8</b>	<b>102.5</b>	<b>102.2</b>	<b>107.6</b>	<b>100.9</b>	<b>91.7</b>	<b>102.4</b>	<b>112.4</b>
Gram . . . . .	3.08	64.7	64.7	81.1	81.2	100.0	59.5	90.2	101.4	85.5	87.4	86.8	79.6	83.8
Tur . . . . .	0.82	96.0	134.0	107.1	135.6	100.0	84.2	127.9	100.9	133.4	92.9	89.8	95.4	118.5
Other Pulses . . . . .	1.41	109.3	112.5	123.3	119.9	100.0	81.1	102.8	136.0	136.9	129.3	112.5	119.7	151.3
<b>PULSES . . . . .</b>	<b>5.31</b>	<b>81.4</b>	<b>88.1</b>	<b>96.3</b>	<b>99.9</b>	<b>100.0</b>	<b>69.0</b>	<b>99.4</b>	<b>110.5</b>	<b>106.5</b>	<b>99.4</b>	<b>94.1</b>	<b>92.7</b>	<b>107.1</b>
<b>FOODGRAINS . . . . .</b>	<b>87.68</b>	<b>78.5</b>	<b>85.8</b>	<b>85.1</b>	<b>87.6</b>	<b>100.0</b>	<b>75.4</b>	<b>102.3</b>	<b>102.7</b>	<b>107.5</b>	<b>100.8</b>	<b>91.8</b>	<b>101.8</b>	<b>112.1</b>

II. NON-FOODGRAINS—

Groundnut . . . . .	4.94	50.5	57.6	102.5	77.8	100.0	111.6	169.8	111.1	131.5	134.4	129.1	138.8	163.1
Sesamum* . . . . .	0.65	102.8	130.3	133.9	127.5	100.0	75.2	139.2	99.9	85.3	99.9	114.5	111.1	108.9
Castorseed . . . . .	0.01	150.0	150.0	150.0	150.0	100.0	50.5	150.0	200.0	100.0	150.0	100.0	150.0	100.0
Rapeseed & Mustard . . . . .	0.33	82.1	82.1	87.5	107.1	100.0	57.1	125.6	111.9	127.9	105.1	93.7	118.8	127.9
Linseed . . . . .	0.58	73.1	74.6	78.5	102.3	100.0	48.5	123.9	144.6	109.6	131.1	123.0	105.0	131.0
<b>OILSEEDS . . . . .</b>	<b>6.51</b>	<b>59.5</b>	<b>67.8</b>	<b>102.8</b>	<b>86.5</b>	<b>100.0</b>	<b>99.5</b>	<b>160.4</b>	<b>113.1</b>	<b>124.7</b>	<b>129.2</b>	<b>125.3</b>	<b>132.0</b>	<b>153.0</b>
Cotton . . . . .	4.16	68.7	72.1	76.1	71.0	100.0	80.8	68.2	43.3	81.5	38.6	54.0	74.1	89.0
Mesta . . . . .	0.01	144.4	116.7	138.9	116.7	100.0	105.6	105.6	105.6	100.0	83.3	88.9	94.5	94.5
Sann-hemp . . . . .	0.51	72.7	61.4	63.6	62.5	100.0	67.0	83.0	76.1	63.6	67.0	77.3	89.8	86.4
<b>FIBRES . . . . .</b>	<b>4.68</b>	<b>69.3</b>	<b>71.0</b>	<b>74.9</b>	<b>70.2</b>	<b>100.0</b>	<b>79.3</b>	<b>69.9</b>	<b>47.0</b>	<b>79.6</b>	<b>41.8</b>	<b>56.6</b>	<b>75.9</b>	<b>88.7</b>
Sugarcane (Gur) . . . . .	0.54	46.1	47.3	43.7	68.9	100.0	70.7	53.3	63.5	80.2	83.8	85.0	76.0	105.3
Tobacco . . . . .	0.05	50.0	100.0	75.0	75.0	100.0	50.0	50.0	75.0	50.0	50.0	50.0	50.0	50.0
Potatoes . . . . .	0.12	82.2	88.9	93.3	95.6	100.0	111.1	124.2	131.8	113.3	99.1	141.6	134.0	179.8
Chillies (Dry). . . . .	0.42	55.0	95.0	105.0	110.0	100.0	95.0	70.0	70.0	85.0	65.0	70.0	60.0	75.0
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>1.13</b>	<b>53.4</b>	<b>71.8</b>	<b>73.1</b>	<b>87.3</b>	<b>100.0</b>	<b>83.1</b>	<b>66.9</b>	<b>73.7</b>	<b>84.2</b>	<b>76.9</b>	<b>83.9</b>	<b>75.1</b>	<b>99.5</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>12.32</b>	<b>62.7</b>	<b>69.4</b>	<b>89.5</b>	<b>80.4</b>	<b>100.0</b>	<b>90.3</b>	<b>117.4</b>	<b>84.4</b>	<b>103.9</b>	<b>91.2</b>	<b>95.4</b>	<b>105.5</b>	<b>123.7</b>
<b>ALL CROPS . . . . .</b>	<b>100.0</b>	<b>76.6</b>	<b>83.8</b>	<b>85.6</b>	<b>86.7</b>	<b>100.0</b>	<b>77.2</b>	<b>104.2</b>	<b>100.4</b>	<b>107.1</b>	<b>99.6</b>	<b>92.2</b>	<b>102.3</b>	<b>113.5</b>

\*Sesamum includes nigerseed also.

APPENDIX 2.39

*Index Numbers of Agricultural Productivity—Madhya Pradesh*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	80.4	81.9	77.9	90.8	100.0	63.6	98.2	92.4	98.3	98.3	65.1	91.9	95.3
Jowar . . . . .	75.0	86.7	84.7	60.8	100.0	106.4	97.2	94.4	105.0	67.2	108.9	98.4	126.5
Bajra . . . . .	91.7	103.8	110.8	110.7	100.0	118.0	90.3	105.7	123.6	74.9	132.6	138.7	136.9
Maize . . . . .	87.6	104.3	109.4	105.7	100.0	94.8	112.6	73.1	124.0	100.5	103.9	135.0	123.0
Small Millets . . . . .	112.0	125.4	123.7	121.6	100.0	65.7	141.9	110.7	113.8	105.8	88.2	121.3	112.9
<b>KHARIF CEREALS . . . . .</b>	<b>78.7</b>	<b>82.5</b>	<b>78.8</b>	<b>83.2</b>	<b>100.0</b>	<b>75.4</b>	<b>97.9</b>	<b>92.6</b>	<b>101.2</b>	<b>91.8</b>	<b>78.7</b>	<b>95.4</b>	<b>105.4</b>
Wheat . . . . .	105.5	107.8	112.4	104.0	100.0	82.5	111.7	115.6	99.9	108.4	104.9	91.1	99.2
Barley . . . . .	119.9	105.7	126.9	127.8	100.0	77.5	123.2	108.0	112.5	136.6	92.7	79.2	121.3
<b>RABI CEREALS . . . . .</b>	<b>104.6</b>	<b>106.9</b>	<b>112.0</b>	<b>104.2</b>	<b>100.0</b>	<b>83.3</b>	<b>111.9</b>	<b>115.6</b>	<b>100.0</b>	<b>108.8</b>	<b>105.2</b>	<b>91.8</b>	<b>100.2</b>
<b>CEREALS . . . . .</b>	<b>85.5</b>	<b>89.2</b>	<b>86.9</b>	<b>88.7</b>	<b>100.0</b>	<b>78.5</b>	<b>102.3</b>	<b>98.6</b>	<b>102.0</b>	<b>96.4</b>	<b>85.5</b>	<b>95.3</b>	<b>105.4</b>
Gram . . . . .	73.5	71.6	90.9	84.1	100.0	62.6	92.8	93.9	88.2	87.0	92.3	76.8	88.1
Tur . . . . .	91.4	113.1	93.9	123.7	100.0	80.0	120.0	95.7	121.5	86.0	82.4	86.9	100.3
Other Pulses . . . . .	109.7	115.4	128.0	120.4	100.0	91.7	98.3	128.7	128.3	118.0	107.7	109.9	128.4
<b>PULSES . . . . .</b>	<b>85.5</b>	<b>91.2</b>	<b>101.3</b>	<b>100.6</b>	<b>100.0</b>	<b>71.3</b>	<b>97.8</b>	<b>103.6</b>	<b>103.6</b>	<b>94.2</b>	<b>93.7</b>	<b>86.2</b>	<b>99.1</b>
<b>FOODGRAINS . . . . .</b>	<b>85.0</b>	<b>89.3</b>	<b>88.2</b>	<b>39.2</b>	<b>100.0</b>	<b>78.8</b>	<b>101.7</b>	<b>98.4</b>	<b>102.5</b>	<b>96.0</b>	<b>86.8</b>	<b>94.6</b>	<b>104.7</b>



II. NON-FOODGRAINS—

Groundnut . . . . .	68.2	96.5	104.1	99.9	100.0	99.9	127.9	84.7	113.3	103.3	87.5	106.5	117.3
Sesamum* . . . . .	107.1	123.0	144.9	118.4	100.0	78.2	126.8	92.1	86.6	97.7	103.4	110.2	97.3
Castorseed . . . . .	217.7	197.9	207.2	217.4	100.0	103.5	181.2	214.6	161.0	207.2	241.5	207.1	241.5
Rapeseed and Mustard . . . . .	98.9	98.6	102.1	112.7	100.0	93.1	125.6	117.5	132.1	96.0	93.7	111.4	116.8
Linseed . . . . .	102.8	104.5	109.3	123.2	100.0	79.5	139.5	150.3	124.5	137.4	140.2	110.2	130.7
<b>OILSEEDS . . . . .</b>	<b>73.8</b>	<b>83.6</b>	<b>121.5</b>	<b>95.3</b>	<b>100.0</b>	<b>121.8</b>	<b>153.2</b>	<b>106.1</b>	<b>128.3</b>	<b>122.8</b>	<b>116.7</b>	<b>122.6</b>	<b>136.6</b>
Cotton . . . . .	63.7	65.8	61.7	55.6	100.0	77.3	61.4	46.4	81.7	32.7	61.0	74.8	76.1
Mesta . . . . .	127.6	107.3	133.0	111.8	100.0	115.7	105.6	110.5	95.9	112.7	102.3	98.8	98.8
Sann-hemp . . . . .	82.6	61.4	64.2	50.4	100.0	79.8	101.1	96.9	97.7	88.4	107.1	110.7	106.7
<b>FIBRES . . . . .</b>	<b>64.9</b>	<b>65.1</b>	<b>61.5</b>	<b>55.1</b>	<b>100.0</b>	<b>76.8</b>	<b>64.0</b>	<b>50.8</b>	<b>81.3</b>	<b>36.3</b>	<b>64.6</b>	<b>77.4</b>	<b>77.2</b>
Sugarcane (Gur) . . . . .	78.9	96.1	80.0	89.6	100.0	79.3	81.5	83.3	84.1	80.1	79.5	74.9	79.6
Tobacco . . . . .	53.3	84.2	85.7	75.0	100.0	100.0	72.7	109.0	80.0	80.0	89.0	114.4	89.0
Potatoes . . . . .	95.9	98.2	103.1	105.6	100.0	97.2	96.6	95.4	79.3	69.3	90.1	85.2	111.0
Chillies (Dry) . . . . .	74.3	110.5	106.1	123.6	100.0	90.5	76.9	69.3	75.9	70.6	71.4	52.2	72.1
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>78.0</b>	<b>102.0</b>	<b>96.2</b>	<b>104.0</b>	<b>100.0</b>	<b>87.6</b>	<b>83.4</b>	<b>82.0</b>	<b>81.4</b>	<b>76.7</b>	<b>80.3</b>	<b>69.9</b>	<b>83.3</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>71.1</b>	<b>77.7</b>	<b>93.5</b>	<b>79.0</b>	<b>100.0</b>	<b>101.6</b>	<b>111.6</b>	<b>83.1</b>	<b>106.3</b>	<b>84.4</b>	<b>94.3</b>	<b>100.8</b>	<b>109.3</b>
<b>ALL CROPS . . . . .</b>	<b>83.4</b>	<b>88.2</b>	<b>88.8</b>	<b>87.8</b>	<b>100.0</b>	<b>81.5</b>	<b>102.8</b>	<b>96.4</b>	<b>103.1</b>	<b>94.3</b>	<b>87.6</b>	<b>96.3</b>	<b>104.9</b>

\*Sesamum includes nigerseed also.

## APPENDIX 2.40

### *Index Numbers of Area under Crops—Orissa*

(Base\* : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	99.4	100.2	99.1	99.6	100.0	100.8	100.6	110.0	97.7	104.9	114.2	110.9	111.5
Jowar . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	105.9	105.9	100.0	111.8	102.0	102.6	67.8
Bajra . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	72.7	100.0	109.1	118.2	107.8	126.2	98.1
Maize . . . . .	103.4	103.4	105.1	101.8	100.0	98.3	91.5	93.3	93.3	142.4	142.4	57.9	86.2
Ragi . . . . .	101.2	184.8	184.8	89.1	100.0	102.4	100.0	100.6	100.0	107.9	107.9	127.3	106.4
Small Millets . . . . .	103.6	103.6	105.4	100.0	100.0	94.6	99.2	102.7	103.6	87.5	87.5	137.6	117.2
Wheat . . . . .	92.3	92.3	100.0	100.0	100.0	107.8	123.1	123.1	130.8	169.3	177.0	176.2	158.7
<b>CEREALS . . . . .</b>	<b>99.5</b>	<b>101.6</b>	<b>100.6</b>	<b>99.4</b>	<b>100.0</b>	<b>100.7</b>	<b>100.5</b>	<b>109.8</b>	<b>97.8</b>	<b>105.1</b>	<b>114.0</b>	<b>111.2</b>	<b>111.3</b>
Gram . . . . .	121.5	119.6	125.4	111.7	100.0	98.1	82.3	98.1	98.1	107.8	107.8	59.4	48.2
Tur . . . . .	91.7	91.7	91.7	97.3	100.0	100.0	91.7	97.3	97.3	105.5	99.7	120.8	102.8
Other Pulses . . . . .	88.3	86.5	87.3	94.6	100.0	94.0	98.1	101.5	97.8	98.7	99.9	76.9	77.4
<b>PULSES . . . . .</b>	<b>89.8</b>	<b>88.1</b>	<b>89.0</b>	<b>95.5</b>	<b>100.0</b>	<b>94.4</b>	<b>97.2</b>	<b>101.3</b>	<b>97.8</b>	<b>99.3</b>	<b>100.3</b>	<b>77.6</b>	<b>77.0</b>
<b>FOODGRAINS . . . . .</b>	<b>98.4</b>	<b>100.1</b>	<b>99.4</b>	<b>99.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.2</b>	<b>108.8</b>	<b>97.8</b>	<b>104.4</b>	<b>112.4</b>	<b>105.8</b>	<b>105.2</b>

**II. NON-FOODGRAINS—**

Groundnut . . . . .	76.3	110.8	110.8	103.6	100.0	101.8	101.8	107.3	109.1	116.3	138.7	262.4	252.4
Castorseed . . . . .	121.2	100.0	101.9	101.9	100.0	93.1	92.4	92.4	100.0	82.7	98.6	110.4	99.9
Sesamum . . . . .	111.5	111.0	104.9	104.6	100.0	98.0	96.0	90.6	93.1	93.5	98.5	92.0	92.0
Rapeseed & Mustard . . . . .	96.8	100.0	99.1	99.1	100.0	88.2	63.8	67.8	89.0	85.8	102.3	117.1	120.0
Linseed . . . . .	152.9	72.3	97.2	97.2	100.0	100.0	102.9	100.0	150.2	133.5	133.5	108.6	197.5
<b>OILSEEDS . . . . .</b>	<b>108.0</b>	<b>104.5</b>	<b>103.3</b>	<b>102.4</b>	<b>100.0</b>	<b>96.1</b>	<b>88.8</b>	<b>87.6</b>	<b>98.5</b>	<b>95.8</b>	<b>106.3</b>	<b>118.0</b>	<b>123.6</b>
Cotton . . . . .	113.0	113.0	108.7	104.3	100.0	100.0	86.9	82.6	82.6	78.2	89.7	16.7	8.6
Jute . . . . .	127.4	64.8	95.5	121.9	100.0	103.2	108.7	82.4	109.8	125.2	125.2	148.3	138.4
Mesta . . . . .	208.3	141.7	175.0	191.7	100.0	58.3	125.0	158.3	166.7	241.7	275.2	259.8	449.1
<b>FIBRES . . . . .</b>	<b>132.6</b>	<b>81.0</b>	<b>105.6</b>	<b>125.5</b>	<b>100.0</b>	<b>98.5</b>	<b>106.4</b>	<b>89.8</b>	<b>110.3</b>	<b>127.9</b>	<b>133.2</b>	<b>134.8</b>	<b>144.2</b>
Sugarcane . . . . .	105.3	103.5	101.8	96.6	100.0	98.3	94.8	101.8	108.7	106.9	106.9	135.3	135.0
Tobacco . . . . .	90.9	109.1	100.0	100.0	100.0	100.0	90.9	90.9	100.0	163.6	161.8	176.0	188.8
Potatoes . . . . .	95.2	100.0	95.2	104.8	100.0	114.3	114.3	119.0	123.8	128.6	210.4	343.9	346.3
Chillies . . . . .	95.8	100.0	100.0	100.0	100.0	29.1	70.8	70.8	70.8	75.0	75.4	75.4	100.9
Ginger . . . . .	100.0	100.0	100.0	100.0	100.0	200.0	200.0	200.0	100.0	100.0	100.0	100.0	103.8
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>100.0</b>	<b>102.6</b>	<b>100.0</b>	<b>99.1</b>	<b>100.0</b>	<b>87.8</b>	<b>93.9</b>	<b>98.3</b>	<b>102.6</b>	<b>109.6</b>	<b>124.5</b>	<b>164.0</b>	<b>175.0</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>110.9</b>	<b>100.2</b>	<b>103.2</b>	<b>105.7</b>	<b>100.0</b>	<b>95.2</b>	<b>92.5</b>	<b>89.6</b>	<b>101.0</b>	<b>103.2</b>	<b>113.5</b>	<b>128.1</b>	<b>135.2</b>
<b>ALL CROPS . . . . .</b>	<b>99.2</b>	<b>100.1</b>	<b>99.6</b>	<b>99.4</b>	<b>100.0</b>	<b>99.7</b>	<b>99.7</b>	<b>107.5</b>	<b>98.0</b>	<b>104.4</b>	<b>112.6</b>	<b>106.8</b>	<b>107.2</b>

\*The base of the Original series constructed by the State Government is the agricultural year 1952-53.

## APPENDIX 2.41

### *Index Numbers of Agricultural Production—Orissa*

(Base\* : Agricultural Year 1956-57 = 100)

Crop/Group	Weight*	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS—</b>														
Rice . . . . .	78.96	97.8	99.8	96.1	92.2	100.0	75.0	95.3	110.6	110.9	110.8	109.9	128.3	131.6
Jowar . . . . .	0.07	100.0	100.0	100.0	100.0	100.0	100.0	133.3	133.3	133.3	133.3	201.3	122.7	59.7
Bajra . . . . .	0.04	100.0	100.0	100.0	100.0	100.0	50.0	50.0	50.0	100.0	100.0	151.0	125.6	93.6
Maize . . . . .	0.23	100.0	100.0	111.1	111.1	100.0	100.0	100.0	100.0	100.0	144.4	144.4	78.6	133.0
Ragi . . . . .	0.55	107.4	96.3	96.3	92.6	100.0	92.6	107.4	107.4	103.8	122.2	122.2	106.3	86.4
Small Millets . . . . .	0.23	100.0	100.0	108.3	100.0	100.0	75.0	116.7	116.7	150.0	166.7	166.7	191.9	136.3
Wheat . . . . .	0.12	100.0	100.0	100.0	100.0	100.0	100.0	133.3	133.3	133.3	133.3	131.6	131.6	116.2
<b>CEREALS . . . . .</b>	<b>80.20</b>	<b>97.9</b>	<b>99.8</b>	<b>96.2</b>	<b>92.3</b>	<b>100.0</b>	<b>75.2</b>	<b>95.5</b>	<b>110.6</b>	<b>111.0</b>	<b>111.2</b>	<b>110.4</b>	<b>128.2</b>	<b>131.2</b>
Gram . . . . .	0.37	133.3	133.3	100.0	100.0	100.0	83.5	83.5	83.5	100.0	150.0	150.0	88.9	67.5
Tur . . . . .	0.31	100.0	100.0	100.0	100.0	100.0	88.9	77.8	77.8	66.7	100.0	100.3	106.6	107.3
Other Pulses . . . . .	5.55	88.7	87.5	89.5	93.0	100.0	81.2	93.8	93.4	80.1	83.5	89.6	74.9	75.9
<b>PULSES . . . . .</b>	<b>6.23</b>	<b>91.9</b>	<b>90.8</b>	<b>90.6</b>	<b>93.8</b>	<b>100.0</b>	<b>81.7</b>	<b>92.4</b>	<b>92.0</b>	<b>80.6</b>	<b>88.3</b>	<b>93.7</b>	<b>77.3</b>	<b>77.0</b>
<b>FOODGRAINS . . . . .</b>	<b>86.43</b>	<b>97.5</b>	<b>99.2</b>	<b>95.8</b>	<b>92.4</b>	<b>100.0</b>	<b>75.7</b>	<b>95.3</b>	<b>109.3</b>	<b>108.8</b>	<b>109.5</b>	<b>109.2</b>	<b>124.5</b>	<b>127.3</b>

II. NON-FOODGRAINS—

Groundnut . . . . .	0.40	81.2	106.3	106.3	100.0	100.0	100.0	93.7	118.8	118.8	124.9	195.1	333.5	217.0
Sesamum . . . . .	0.87	105.0	105.0	105.0	100.0	100.0	100.0	95.1	90.0	95.1	100.0	100.8	87.3	87.3
Rapeseed & Mustard . . . . .	0.92	90.5	100.0	95.3	100.0	100.0	85.7	57.2	61.9	90.5	81.0	126.5	75.8	75.8
Linseed . . . . .	0.19	166.7	100.0	100.0	100.0	100.0	133.3	133.3	133.3	266.7	333.3	333.3	112.3	192.0
Castorseed . . . . .	0.16	100.0	100.0	100.0	100.0	100.0	100.0	100.0	125.0	125.0	100.0	156.2	199.6	138.3
<b>OILSEEDS . . . . .</b>	<b>2.54</b>	<b>100.3</b>	<b>102.7</b>	<b>101.0</b>	<b>100.0</b>	<b>100.0</b>	<b>97.3</b>	<b>84.3</b>	<b>89.8</b>	<b>111.9</b>	<b>114.5</b>	<b>145.8</b>	<b>130.9</b>	<b>114.6</b>
Cotton . . . . .	0.04	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	150.0	255.4	34.3	15.1
Jute . . . . .	3.34	139.9	70.5	104.9	133.8	100.0	113.7	96.6	115.8	130.6	137.1	137.2	162.5	158.7
Mesta . . . . .	1.32	141.6	141.6	170.8	187.5	100.0	62.5	129.2	158.4	166.6	241.6	275.1	297.1	414.3
<b>FIBRES . . . . .</b>	<b>4.70</b>	<b>140.0</b>	<b>90.7</b>	<b>123.4</b>	<b>148.6</b>	<b>100.0</b>	<b>99.2</b>	<b>105.8</b>	<b>127.6</b>	<b>140.5</b>	<b>166.6</b>	<b>176.9</b>	<b>199.2</b>	<b>229.3</b>
Sugarcane (cur) . . . . .	4.81	104.0	108.3	107.2	97.6	100.0	99.8	87.7	83.0	87.7	88.9	88.9	110.2	113.1
Tobacco . . . . .	0.66	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	300.0	175.5	89.9	68.6
Potatoes . . . . .	0.44	70.4	74.1	70.4	107.4	100.0	92.6	129.6	100.0	103.7	118.5	186.2	185.9	337.5
Chillies (dry) . . . . .	0.38	75.0	100.0	100.0	100.0	100.0	100.0	50.0	50.0	50.0	50.0	63.4	63.4	88.4
Ginger (Dry) . . . . .	0.04	100.0	120.0	100.0	100.0	100.0	120.0	120.0	120.0	100.0	80.0	80.0	80.0	105.5
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>6.33</b>	<b>99.5</b>	<b>104.6</b>	<b>103.4</b>	<b>98.7</b>	<b>100.0</b>	<b>99.5</b>	<b>89.8</b>	<b>84.2</b>	<b>87.9</b>	<b>110.6</b>	<b>103.1</b>	<b>110.3</b>	<b>122.5</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>13.57</b>	<b>113.7</b>	<b>99.4</b>	<b>109.9</b>	<b>116.2</b>	<b>100.0</b>	<b>99.0</b>	<b>94.3</b>	<b>100.3</b>	<b>110.6</b>	<b>130.7</b>	<b>136.7</b>	<b>144.9</b>	<b>158.0</b>
<b>ALL CROPS . . . . .</b>	<b>100.00</b>	<b>99.7</b>	<b>99.2</b>	<b>97.7</b>	<b>95.6</b>	<b>100.0</b>	<b>78.8</b>	<b>95.2</b>	<b>108.1</b>	<b>109.0</b>	<b>112.4</b>	<b>112.9</b>	<b>127.3</b>	<b>131.5</b>

\*The base of the original series constructed by the State Government is the agricultural year 1952-53 and the weights relate to that year.

APPENDIX 2.42

*Index Numbers of Agricultural Productivity—Orissa*

(Base : Agricultural Year 1956-57 = 100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	98.4	99.6	97.0	92.6	100.0	74.4	94.7	100.5	113.5	105.6	96.2	115.7	118.0
Jowar . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	125.9	125.9	133.3	110.2	197.4	119.6	88.1
Bajra . . . . .	100.0	100.0	100.0	100.0	100.0	50.0	68.8	50.0	91.7	84.6	140.1	99.0	95.4
Maize . . . . .	96.7	96.7	105.7	109.1	100.0	101.7	109.3	107.2	107.2	101.4	101.4	135.8	154.3
Ragi . . . . .	106.1	52.1	52.1	103.9	100.0	90.4	107.4	106.8	103.8	113.3	113.3	83.5	81.2
Small Millets . . . . .	96.5	96.5	102.8	100.0	100.0	79.3	117.6	113.6	144.8	100.5	190.5	139.5	116.3
Wheat . . . . .	108.3	108.3	100.0	100.0	100.0	92.8	108.3	108.3	101.9	78.7	74.4	74.7	73.2
<b>CEREALS . . . . .</b>	<b>98.4</b>	<b>98.2</b>	<b>95.6</b>	<b>92.9</b>	<b>100.0</b>	<b>74.7</b>	<b>95.0</b>	<b>100.7</b>	<b>113.5</b>	<b>105.8</b>	<b>96.8</b>	<b>115.3</b>	<b>117.9</b>
Gram . . . . .	109.7	111.5	79.7	89.5	100.0	85.1	101.5	85.1	101.9	139.1	139.1	149.7	140.0
Tur . . . . .	109.1	109.1	109.1	102.8	100.0	88.9	84.8	80.0	68.6	94.8	100.6	88.6	104.4
Other Pulses . . . . .	100.5	101.2	102.5	98.3	100.0	86.4	95.6	92.0	81.9	84.6	89.7	97.4	98.1
<b>PUSLES . . . . .</b>	<b>102.3</b>	<b>103.1</b>	<b>101.8</b>	<b>98.2</b>	<b>100.0</b>	<b>86.5</b>	<b>95.1</b>	<b>90.8</b>	<b>82.4</b>	<b>88.9</b>	<b>93.4</b>	<b>99.6</b>	<b>100.0</b>
<b>FOODGRAINS . . . . .</b>	<b>99.1</b>	<b>99.1</b>	<b>96.4</b>	<b>93.3</b>	<b>100.0</b>	<b>75.7</b>	<b>95.1</b>	<b>100.5</b>	<b>111.2</b>	<b>104.9</b>	<b>97.2</b>	<b>118.2</b>	<b>121.0</b>

## II. NON-FOOD GRAINS—

Groundnut . . . . .	106.4	95.9	95.9	96.5	100.0	98.2	92.0	110.7	108.9	107.4	140.7	127.1	86.0
Sesamum . . . . .	94.2	94.6	100.1	95.6	100.0	102.0	99.1	99.3	102.1	107.0	102.3	94.9	94.9
Rapeseed & Mustard . . . . .	93.5	100.0	96.2	100.9	100.9	97.2	89.6	91.3	101.7	94.4	123.7	64.7	63.2
Linseed . . . . .	109.0	138.3	102.9	102.9	100.0	133.3	129.5	133.3	177.6	249.7	249.7	103.4	97.2
Castorseed . . . . .	82.5	100.0	98.1	98.1	100.0	101.9	108.2	135.2	125.0	120.9	158.4	180.8	138.4
<b>OILSEEDS</b> . . . . .	92.9	98.3	97.8	97.7	100.0	101.2	94.9	102.5	113.6	119.5	137.2	110.9	92.7
Cotton . . . . .	88.5	88.5	92.0	95.9	100.0	100.0	115.1	121.1	121.1	191.8	284.7	205.4	175.6
Jute . . . . .	109.8	108.8	109.8	109.8	100.0	110.2	88.9	140.5	118.9	109.5	109.6	109.6	114.7
Mesta . . . . .	68.0	99.9	97.6	97.8	100.0	107.2	103.4	100.1	99.9	100.0	100.0	114.4	92.3
<b>FIBRES</b> . . . . .	105.6	112.0	116.9	118.4	100.0	100.7	99.4	142.1	127.4	130.3	132.8	147.8	150.0
Sugarcane (Cur) . . . . .	98.8	104.6	105.3	101.0	100.0	101.5	92.5	81.5	80.7	83.2	83.2	81.4	83.8
Tobacco . . . . .	110.0	91.7	100.0	100.0	100.0	100.0	110.0	110.0	100.0	183.4	108.5	51.1	36.3
Potatoes . . . . .	73.9	74.1	73.9	102.5	100.0	81.0	113.4	84.0	83.8	92.1	88.5	54.1	97.4
Ginger (Dry) . . . . .	100.0	120.0	100.0	100.0	100.0	60.0	60.0	60.0	100.0	80.0	80.0	80.0	101.6
Chillies (Dry) . . . . .	78.3	100.0	100.0	100.0	100.0	343.6	70.6	70.6	70.6	66.7	84.1	84.1	87.6
<b>MISCELLANEOUS CROPS</b> . . . . .	99.5	101.9	103.4	99.6	100.0	113.3	95.6	85.7	85.7	100.9	82.8	67.3	70.0
<b>NON-FOODGRAINS</b> . . . . .	102.5	99.2	106.5	109.9	100.0	104.0	101.9	111.9	109.5	126.6	120.4	113.1	116.9
<b>ALL CROPS</b> . . . . .	100.5	99.1	98.1	96.2	100.0	79.0	95.5	100.6	111.2	107.7	100.3	119.2	122.7

APPENDIX 2.43

*Index Numbers of Area under Crops—Kerala*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS</b>													
Rice . . . . .	97.3	99.8	100.1	99.6	100.0	99.0	99.7	100.7	102.0	98.6	105.1	105.4	104.8
Jowar . . . . .	62.9	66.0	74.1	94.9	100.0	82.9	78.0	75.0	75.0	72.3	72.3	71.8	67.3
Ragi . . . . .	92.2	95.8	92.6	94.5	100.0	100.9	101.9	107.8	111.9	104.5	104.7	104.8	104.1
<b>CEREALS . . . . .</b>	<b>97.2</b>	<b>99.7</b>	<b>100.0</b>	<b>99.6</b>	<b>100.0</b>	<b>99.0</b>	<b>99.7</b>	<b>100.7</b>	<b>102.0</b>	<b>98.5</b>	<b>105.0</b>	<b>105.3</b>	<b>104.7</b>
<b>PULSES . . . . .</b>	<b>72.4</b>	<b>89.2</b>	<b>92.9</b>	<b>93.1</b>	<b>100.0</b>	<b>93.9</b>	<b>92.4</b>	<b>91.8</b>	<b>91.9</b>	<b>90.7</b>	<b>91.6</b>	<b>91.3</b>	<b>90.8</b>
<b>FOODGRAINS . . . . .</b>	<b>94.8</b>	<b>99.1</b>	<b>99.6</b>	<b>99.2</b>	<b>100.0</b>	<b>98.7</b>	<b>98.8</b>	<b>99.7</b>	<b>100.9</b>	<b>97.6</b>	<b>103.7</b>	<b>104.0</b>	<b>103.4</b>
<b>II. NON-FOODGRAINS</b>													
Groundnut . . . . .	88.8	99.6	103.2	98.8	100.0	102.4	107.4	96.7	119.9	119.6	119.9	108.5	108.5
Sesamum . . . . .	93.8	104.4	107.1	101.7	100.0	102.8	99.2	88.9	61.0	60.3	60.1	60.5	60.0
Coconut . . . . .	93.6	95.6	96.7	97.4	100.0	100.7	103.4	107.1	108.9	109.8	110.0	111.2	114.1
<b>OILSEEDS† . . . . .</b>	<b>93.5</b>	<b>96.1</b>	<b>97.3</b>	<b>97.6</b>	<b>100.0</b>	<b>100.9</b>	<b>103.4</b>	<b>106.1</b>	<b>107.3</b>	<b>108.1</b>	<b>108.3</b>	<b>109.1</b>	<b>111.8</b>
Cotton . . . . .	70.5	81.3	97.7	96.5	100.0	95.7	87.5	92.2	108.1	105.5	85.1	87.7	95.8
<b>FIBRES . . . . .</b>	<b>70.5</b>	<b>81.3</b>	<b>97.7</b>	<b>96.5</b>	<b>100.0</b>	<b>95.7</b>	<b>87.5</b>	<b>92.2</b>	<b>108.1</b>	<b>105.5</b>	<b>85.1</b>	<b>87.7</b>	<b>95.8</b>



Tea . . . . .	99.5	99.6	99.6	100.0	100.0	100.8	95.0	95.0	95.0	94.5	97.3	96.9	96.9*
Coffee . . . . .	84.4	93.6	98.6	95.7	100.0	111.4	111.4	115.5	115.5	129.2	131.8	137.6	137.6*
Rubber . . . . .	76.0	77.3	78.8	78.7	100.0	121.4	133.1	133.1	149.3	161.7	167.6	173.6	173.6*
<b>PLANTATION CROPS . . . . .</b>	<b>83.7</b>	<b>85.4</b>	<b>86.8</b>	<b>86.7</b>	<b>100.0</b>	<b>114.1</b>	<b>119.5</b>	<b>119.9</b>	<b>129.7</b>	<b>138.5</b>	<b>143.1</b>	<b>147.2</b>	<b>147.2</b>
Sugarcane . . . . .	83.8	93.4	93.3	94.1	100.0	112.6	113.6	114.9	118.0	119.0	120.4	122.3	122.7
Tobacco . . . . .	105.1	108.3	112.6	114.8	100.0	105.1	106.3	125.2	149.2	141.3	141.3	141.4	141.4
Ginger . . . . .	138.9	88.4	98.7	103.2	100.0	91.5	88.0	109.1	118.4	118.8	119.0	117.9	118.0
Pepper . . . . .	90.6	93.5	95.7	99.4	100.0	104.5	104.2	105.2	114.7	114.8	114.1	114.2	114.5
Tapioca . . . . .	98.2	116.3	108.2	106.5	100.0	102.6	107.3	115.4	116.1	113.4	106.2	100.6	100.6*
Cardamom . . . . .	90.7	97.8	99.7	99.7	100.0	100.1	100.1	100.1	100.3	100.6	100.6	100.6*	100.6*
Turmeric . . . . .	96.4	92.9	97.7	97.3	100.0	130.6	91.7	99.1	99.8	103.6	103.3	98.7	98.7
Alcanut . . . . .	103.3	90.7	100.7	100.0	100.0	100.2	101.0	107.1	109.3	114.3	116.4	119.3	125.2
Bananas . . . . .	74.1	95.6	102.9	112.4	100.0	105.9	101.8	102.8	102.2	100.9	109.7	105.0	109.4
Cashewnut . . . . .	94.7	96.6	87.7	100.2	100.0	117.8	123.6	140.2	145.2	147.1	140.6	141.0	141.0*
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>96.8</b>	<b>104.1</b>	<b>101.9</b>	<b>103.1</b>	<b>100.0</b>	<b>104.3</b>	<b>106.5</b>	<b>113.2</b>	<b>116.4</b>	<b>115.9</b>	<b>112.3</b>	<b>110.1</b>	<b>110.8</b>
<b>NON-FOODGRAINS† . . . . .</b>	<b>93.4</b>	<b>97.9</b>	<b>97.9</b>	<b>98.5</b>	<b>100.0</b>	<b>103.9</b>	<b>106.5</b>	<b>110.5</b>	<b>113.7</b>	<b>115.0</b>	<b>114.0</b>	<b>114.0</b>	<b>115.6</b>
<b>ALL-CROPS† . . . . .</b>	<b>94.4</b>	<b>98.4</b>	<b>98.6</b>	<b>98.8</b>	<b>100.0</b>	<b>101.7</b>	<b>103.2</b>	<b>105.8</b>	<b>108.2</b>	<b>107.5</b>	<b>109.6</b>	<b>109.7</b>	<b>110.4</b>

\*Provisional.

†Excludes Lemongrass oil which is included in the series constructed by the State Government.

NOTE:- The indices for the years 1962-63 and 1963-64 are generally based on Partially Revised Estimates, while those for 1964-65 are based on Final Estimates. The indices for these years are, therefore, subject to revision.

APPENDIX 2.44

*Index Numbers of Agricultural Production—Kerala*

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS</b>														
Rice . . . . .	28.63	81.4	84.5	92.2	99.6	100.0	102.5	106.3	116.9	120.2	113.1	123.2	127.1	124.7
Jowar . . . . .	0.02	50.7	76.9	68.8	94.7	100.0	84.3	75.5	72.7	72.7	70.4	70.4	67.5	63.3
Ragi . . . . .	0.25	81.4	90.9	90.2	91.3	100.0	106.1	107.9	115.1	117.6	112.0	111.9	110.9	109.6
CEREALS . . . . .	28.90	81.4	84.6	92.2	99.5	100.0	102.5	106.3	116.9	120.2	113.1	123.1	126.9	124.5
PULSES . . . . .	0.28	73.1	90.1	93.9	94.1	100.0	95.3	94.6	93.7	93.9	91.8	92.4	91.7	91.6
FOODGRAINS . . . . .	29.18	81.3	84.7	92.2	99.4	100.0	102.4	106.2	116.7	119.9	112.9	122.8	126.6	124.2
<b>II. NON-FOODGRAINS</b>														
Groundnut . . . . .	0.53	87.6	106.6	118.6	91.0	100.0	70.2	100.0	81.2	86.8	86.5	85.1	130.6	137.0
Sesamum . . . . .	0.47	91.7	104.1	106.7	100.2	100.0	101.1	90.1	67.6	40.1	40.0	40.0	40.3	37.3
Coconut . . . . .	28.81	93.4	95.6	96.7	97.4	100.0	100.5	103.4	107.1	102.5	103.4	105.2	103.8	104.3
OILSEEDS† . . . . .	29.81	93.3	95.9	97.2	97.3	100.0	100.0	103.1	106.0	101.2	102.1	103.8	103.3	103.8
Cotton . . . . .	0.31	70.2	80.9	97.3	95.6	100.0	96.3	78.6	82.5	106.1	103.0	75.3	80.3	99.4
FIBRES . . . . .	0.31	70.2	80.9	97.3	95.6	100.0	96.3	78.6	82.5	106.1	103.0	75.3	80.3	99.4

Tea . . . . .	9.38	87.1	87.1	86.7	87.5	100.0	100.0	116.3	116.3	116.3	109.5	111.6	118.1	118.1*
Coffee . . . . .	1.71	76.1	84.5	89.0	93.1	100.0	107.4	105.3	110.3	110.3	123.2	126.3	127.6	127.6*
Rubber . . . . .	4.15	89.1	94.8	98.0	97.8	100.0	100.8	103.9	103.9	106.4	115.3	134.1	156.0	156.0*
<b>PLANTATION CROPS . . . . .</b>	<b>15.24</b>	<b>86.4</b>	<b>88.9</b>	<b>90.0</b>	<b>90.9</b>	<b>100.0</b>	<b>101.0</b>	<b>111.7</b>	<b>112.2</b>	<b>112.9</b>	<b>112.6</b>	<b>119.4</b>	<b>129.5</b>	<b>129.5</b>
Sugarcane (Gur) . . . . .	0.75	82.3	93.6	102.1	94.9	100.0	98.8	99.3	101.5	106.4	105.3	116.5	123.1	122.8
Tobacco . . . . .	0.18	105.2	108.4	112.5	114.9	100.0	104.6	106.3	120.1	150.4	139.0	137.3	137.4	134.5
Ginger (Dry) . . . . .	0.74	93.5	88.7	97.3	102.2	100.0	86.0	71.6	91.8	103.6	104.5	105.1	103.8	104.2
Pepper . . . . .	2.81	83.0	86.9	96.8	101.6	100.0	97.1	93.4	92.8	99.2	99.0	89.8	82.3	81.6
Tapioca . . . . .	8.12	98.2	116.3	108.3	108.3	100.0	102.6	107.3	115.7	116.4	113.7	106.5	100.9	100.9*
Cardamom . . . . .	1.28	88.6	95.4	97.3	99.8	100.0	100.0	100.0	100.0	100.2	100.2	100.2	100.2*	100.2*
Turmeric . . . . .	0.28	120.5	116.7	122.1	121.6	100.0	130.6	91.7	99.0	99.7	103.4	102.9	93.3	93.2*
Areca nut . . . . .	7.68	103.3	90.7	100.7	100.0	100.0	99.1	102.7	108.9	116.9	122.2	125.5	128.6	128.6
Bananas . . . . .	1.22	74.1	95.6	102.9	112.4	100.0	106.1	101.8	102.8	102.2	88.4	120.8	117.5	122.6
Cashewnut . . . . .	1.93	94.4	96.3	87.5	100.2	100.0	117.8	123.6	139.2	144.2	146.2	156.8	157.3	157.3*
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>24.99</b>	<b>95.8</b>	<b>99.9</b>	<b>101.9</b>	<b>103.7</b>	<b>100.0</b>	<b>101.9</b>	<b>101.5</b>	<b>110.2</b>	<b>114.6</b>	<b>114.8</b>	<b>115.2</b>	<b>113.4</b>	<b>113.5</b>
<b>NON-FOODGRAINS † . . . . .</b>	<b>70.35</b>	<b>92.6</b>	<b>95.7</b>	<b>97.3</b>	<b>98.2</b>	<b>100.0</b>	<b>100.9</b>	<b>104.3</b>	<b>108.7</b>	<b>108.5</b>	<b>108.9</b>	<b>111.1</b>	<b>112.5</b>	<b>112.8</b>
<b>ALL CROPS † . . . . .</b>	<b>99.53</b>	<b>89.3</b>	<b>92.5</b>	<b>95.8</b>	<b>98.6</b>	<b>100.0</b>	<b>101.3</b>	<b>104.9</b>	<b>111.0</b>	<b>111.8</b>	<b>110.1</b>	<b>114.5</b>	<b>116.6</b>	<b>116.1</b>

\*Provisional.

†Excludes Lemongrass oil which is included in the series constructed by the State Government.

NOTE.—The indices for the years 1962-63 and 1963-64 are generally based on partially revised estimates, while those for 1964-65 are based on Final Forecast Estimates. The indices for these years are, therefore, subject to revision.

APPENDIX 2.45

*Index Numbers of Agricultural Productivity—Kerala*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS</b>													
Rice . . . . .	83.7	84.7	92.1	100.0	100.0	103.5	106.6	116.1	117.8	114.7	117.2	120.6	119.0
Jowar . . . . .	80.6	116.5	92.8	99.8	100.0	101.7	96.8	96.9	96.9	97.4	97.4	94.0	94.1
Ragi . . . . .	88.3	94.9	97.2	96.3	100.0	105.2	105.9	106.8	105.1	107.2	106.9	105.8	105.3
CEREALS . . . . .	83.7	84.9	92.2	100.8	100.0	103.5	106.6	116.1	117.7	114.8	117.2	120.5	118.9
PULSES . . . . .	101.0	101.0	101.1	101.1	100.0	101.5	102.4	102.1	102.2	101.2	100.9	100.4	100.9
FOODGRAINS . . . . .	85.8	85.5	92.6	96.6	100.0	103.7	107.5	117.1	118.7	115.7	118.4	121.7	120.1
<b>II. NON-FOODGRAINS</b>													
Groundnut . . . . .	98.6	107.0	114.9	92.1	100.0	68.6	93.1	84.0	72.4	72.3	71.0	120.4	126.3
Sesamum . . . . .	97.8	99.7	99.6	98.5	100.0	98.3	90.8	76.0	65.7	66.3	66.6	66.6	61.6
Coconut . . . . .	99.8	100.0	100.0	100.0	100.0	99.8	100.0	100.0	94.1	94.2	95.6	93.3	91.4
OILSEEDS † . . . . .	99.8	99.8	99.9	99.7	100.0	99.1	99.7	99.9	94.3	94.4	95.8	94.7	92.8
Cotton . . . . .	99.6	99.5	99.6	99.1	100.0	100.6	89.8	89.5	98.1	97.6	88.5	91.6	103.8
FIBRES . . . . .	99.6	99.5	99.6	99.1	100.0	100.6	89.8	89.5	98.1	97.6	88.5	91.6	103.8

Tea . . . . .	87.5	87.4	87.0	87.5	100.0	99.2	122.4	122.4	122.4	115.9	114.7	121.9	121.9*
Coffee . . . . .	90.2	90.3	90.3	97.3	100.0	96.4	94.5	95.5	95.5	95.4	95.8	92.7	92.7*
Rubber . . . . .	117.2	122.6	124.4	124.3	100.0	83.0	78.1	78.1	71.3	71.3	80.0	89.9	89.9*
<b>PLANTATION CROPS</b> . . . . .	<b>103.2</b>	<b>104.1</b>	<b>103.7</b>	<b>104.8</b>	<b>100.0</b>	<b>88.5</b>	<b>93.5</b>	<b>93.7</b>	<b>87.0</b>	<b>81.3</b>	<b>83.4</b>	<b>88.0</b>	<b>88.0</b>
Sugarcane (Sur) . . . . .	98.2	100.2	109.4	100.9	100.0	87.7	87.4	88.3	90.2	88.5	96.8	100.7	100.1
Tobacco . . . . .	100.1	100.1	99.1	100.1	100.0	99.5	100.0	103.1	100.8	98.4	97.2	97.2	95.2
Ginger (Dry) . . . . .	67.3	100.3	98.6	99.0	100.0	94.4	81.4	84.1	87.5	88.0	88.3	88.0	88.3
Pepper . . . . .	91.6	92.2	101.1	102.2	100.0	92.9	89.6	88.2	86.5	86.2	78.7	72.1	71.3
Tapioca . . . . .	100.0	100.0	100.1	101.7	100.0	100.0	100.0	100.3	100.3	100.3	100.3	100.3*	100.3*
Cardamom . . . . .	97.7	97.5	97.6	100.1	100.0	99.9	99.9	99.9	99.9	99.6	99.6	99.6	99.6*
Turmeric . . . . .	125.0	125.0	125.0	125.0	100.0	100.0	100.0	99.9	99.9	99.8	99.6	94.5	94.4
Arecanut . . . . .	100.0	100.0	100.0	100.0	100.0	98.9	101.7	100.6	105.7	101.1	107.8	107.8	102.7
Bananas . . . . .	100.0	100.0	100.0	100.0	100.0	100.2	100.0	100.0	100.0	87.6	110.1	111.9	112.1
Cashewnut . . . . .	99.7	99.7	99.8	100.0	100.0	100.0	100.0	99.3	99.3	99.4	111.5	111.6	111.6*
<b>MISCELLANEOUS CROPS</b> . . . . .	<b>99.0</b>	<b>96.0</b>	<b>100.0</b>	<b>100.6</b>	<b>100.0</b>	<b>97.7</b>	<b>97.2</b>	<b>97.3</b>	<b>98.4</b>	<b>99.1</b>	<b>102.6</b>	<b>103.0</b>	<b>102.4</b>
<b>NON-FOODGRAINS†</b> . . . . .	<b>99.1</b>	<b>97.8</b>	<b>99.4</b>	<b>99.7</b>	<b>100.0</b>	<b>97.1</b>	<b>97.9</b>	<b>98.4</b>	<b>95.4</b>	<b>94.7</b>	<b>97.5</b>	<b>98.7</b>	<b>97.6</b>
<b>ALL-CROPS†</b> . . . . .	<b>94.6</b>	<b>94.0</b>	<b>97.2</b>	<b>99.8</b>	<b>100.0</b>	<b>99.6</b>	<b>101.6</b>	<b>104.9</b>	<b>103.3</b>	<b>102.4</b>	<b>104.5</b>	<b>106.3</b>	<b>105.2</b>

\*Provisional.

† Excludes Lemongrass oil which is included in the series constructed by the State Government.

NOTE.—The indices for the years 1962-63 and 1963-64 are generally based on partially revised Estimates, while those for 1964-65 are based on Final Forecast Estimates. The indices for these years are, therefore, subject to revision.

## APPENDIX 2.46

### *Index Numbers of Area under Crops—West Bengal*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS</b>													
Rice . . . . .	101.5	104.4	96.8	99.8	100.0	100.6	97.1	100.6	104.9	100.7	100.5	101.9	103.1
Wheat . . . . .	55.0	68.1	77.3	83.6	100.0	40.6	42.0	57.5	41.5	54.6	58.5	65.8	48.9
Maize . . . . .	92.9	91.2	91.8	97.1	100.0	78.2	78.8	81.8	81.8	76.5	80.7	80.1	79.5
Barley . . . . .	42.5	70.7	64.6	65.7	100.0	50.8	59.7	87.8	52.5	83.4	66.3	54.1	43.1
<b>CEREALS . . . . .</b>	<b>99.6</b>	<b>103.0</b>	<b>95.9</b>	<b>98.9</b>	<b>100.0</b>	<b>98.4</b>	<b>95.2</b>	<b>99.4</b>	<b>102.6</b>	<b>99.3</b>	<b>99.7</b>	<b>101.5</b>	<b>104.1</b>
Gram . . . . .	94.8	112.1	102.1	108.9	100.0	96.4	108.7	124.4	85.0	92.7	91.3	88.8	85.4
Other Pulses . . . . .	130.4	148.2	132.5	123.9	100.0	97.7	124.9	123.1	146.1	139.2	132.1	140.5	140.1
<b>PULSES . . . . .</b>	<b>119.5</b>	<b>137.1</b>	<b>123.2</b>	<b>119.3</b>	<b>100.0</b>	<b>97.3</b>	<b>119.9</b>	<b>123.5</b>	<b>127.4</b>	<b>124.9</b>	<b>119.5</b>	<b>124.7</b>	<b>123.4</b>
<b>FOODGRAINS . . . . .</b>	<b>101.8</b>	<b>106.9</b>	<b>98.9</b>	<b>101.2</b>	<b>100.0</b>	<b>98.3</b>	<b>98.0</b>	<b>102.1</b>	<b>105.4</b>	<b>102.1</b>	<b>102.4</b>	<b>104.6</b>	<b>106.7</b>

## 11. NON-FOODGRAINS

Rapeseed and Mustard	.	.	114.1	103.0	109.1	118.7	100.0	102.0	121.2	135.9	110.6	144.4	118.7	108.6	129.3
Linseed	.	.	52.9	57.9	66.9	75.2	100.0	38.0	78.5	111.6	90.1	103.3	93.4	86.8	89.3
<b>OILSEEDS</b>			90.9	85.9	93.1	102.2	100.0	77.7	105.0	126.6	102.8	128.8	109.1	100.3	114.1
Jute	.	.	117.9	77.8	83.1	114.7	100.0	105.4	121.7	114.4	100.0	158.9	149.2	153.1	156.7
<b>FIBRES</b>			117.9	77.8	83.1	114.7	100.0	105.4	121.7	114.4	100.0	158.9	149.2	153.1	156.7
Tea	.	.	97.8	97.9	97.8	97.5	100.0	100.4	100.8	101.3	101.8	102.0	102.5	103.5	103.5†
<b>PLANTATION CROPS</b>			97.8	97.9	97.8	97.5	100.0	100.4	100.8	101.3	101.8	102.0	102.5	103.5	103.5†
Potatoes	.	.	84.7	88.1	90.7	100.0	100.0	104.2	104.2	121.2	122.9	120.3	138.1	135.6	144.1
Sugarcane	.	.	88.3	80.0	96.7	103.3	100.0	96.7	110.0	135.0	165.0	141.7	128.4	135.1	170.1
Tobacco	.	.	100.0	97.5	105.0	100.0	100.0	100.0	97.5	95.0	107.5	102.5	95.0	92.5	92.5
<b>MISCELLANEOUS CROPS</b>			88.5	87.6	95.0	100.0	100.0	101.4	104.6	120.2	131.7	122.9	127.5	127.5	141.7
<b>NON-FOODGRAINS</b>			104.8	83.8	89.0	107.5	100.0	98.1	112.6	116.2	105.6	139.1	130.7	130.8	137.7
<b>ALL-CROPS</b>			102.1	104.5	97.9	101.8	100.0	98.2	99.5	103.5	105.4	105.9	104.8	106.8	109.4

†Provisional.

NOTE.—The indices for the years 1962-63 and 1963-64 are generally based on 'Partially Revised Estimates' while those for 1964-65 on 'Final Estimates'. The indices for these years are, therefore, subject to revision.

APPENDIX 2.47

*Index Numbers of Agricultural Production -- West Bengal*

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS</b>														
Rice . . . . .	67.72	91.1	120.5	86.6	95.6	100.0	94.1	88.7	91.3	117.4	103.3	94.9	114.8	124.0
Wheat . . . . .	0.49	138.9	151.2	176.8	170.8	100.0	71.9	88.9	115.9	93.7	125.6	111.2	118.4	100.5
Maize . . . . .	0.64	92.2	97.9	88.8	98.7	100.0	81.9	77.1	98.1	74.9	62.7	75.2	75.2	81.5
Barley . . . . .	0.27	84.1	118.9	110.0	101.0	100.0	48.4	93.2	87.4	61.9	135.8	88.4	75.8	56.9
<b>CEREALS . . . . .</b>	<b>69.12</b>	<b>91.4</b>	<b>120.5</b>	<b>87.4</b>	<b>96.2</b>	<b>100.0</b>	<b>93.7</b>	<b>88.6</b>	<b>91.5</b>	<b>116.6</b>	<b>103.2</b>	<b>94.8</b>	<b>114.3</b>	<b>123.2</b>
Gram . . . . .	1.19	131.2	143.0	143.7	129.5	100.0	82.5	99.8	93.9	79.3	72.3	80.4	81.3	72.3
Other Pulses . . . . .	3.30	158.4	166.0	180.1	153.0	100.0	98.4	154.0	134.0	177.6	153.3	156.8	176.8	172.1
<b>PULSES . . . . .</b>	<b>4.49</b>	<b>151.2</b>	<b>159.9</b>	<b>170.5</b>	<b>146.8</b>	<b>100.0</b>	<b>94.2</b>	<b>139.6</b>	<b>123.8</b>	<b>151.5</b>	<b>131.8</b>	<b>136.6</b>	<b>151.5</b>	<b>145.6</b>
<b>FOODGRAINS . . . . .</b>	<b>73.61</b>	<b>95.0</b>	<b>122.9</b>	<b>92.5</b>	<b>99.3</b>	<b>100.0</b>	<b>93.7</b>	<b>91.7</b>	<b>93.5</b>	<b>118.7</b>	<b>104.9</b>	<b>97.3</b>	<b>116.6</b>	<b>124.6</b>



## II. NON-FOODGRAINS

Rapeseed and Mustard . . . . .	1.12	179.0	114.7	140.4	140.4	100.0	104.8	156.3	100.7	127.8	124.4	131.5	103.1	128.0
Linseed . . . . .	0.15	131.7	102.8	113.7	152.0	100.0	60.0	141.3	123.7	123.7	95.0	142.5	118.7	95.0
<b>OILSEEDS . . . . .</b>	<b>1.27</b>	<b>173.4</b>	<b>113.3</b>	<b>137.2</b>	<b>141.8</b>	<b>100.0</b>	<b>99.5</b>	<b>154.5</b>	<b>103.4</b>	<b>127.3</b>	<b>120.9</b>	<b>132.8</b>	<b>104.9</b>	<b>124.1</b>
Jute . . . . .	9.09	175.7	111.4	111.3	145.6	100.0	125.2	177.6	148.4	135.9	229.2	212.9	223.6	247.3
<b>FIBRES . . . . .</b>	<b>9.09</b>	<b>175.7</b>	<b>111.4</b>	<b>111.3</b>	<b>145.6</b>	<b>100.0</b>	<b>125.2</b>	<b>177.6</b>	<b>148.4</b>	<b>135.9</b>	<b>229.2</b>	<b>212.9</b>	<b>223.6</b>	<b>247.3</b>
Tea . . . . .	9.22	140.3	103.1	100.7	97.5	100.0	102.3	104.7	111.5	109.8	118.6	116.5	114.0	114.0†
<b>PLANTATION CROPS . . . . .</b>	<b>9.22</b>	<b>140.3</b>	<b>103.1</b>	<b>100.7</b>	<b>97.5</b>	<b>100.0</b>	<b>102.3</b>	<b>104.7</b>	<b>111.5</b>	<b>109.8</b>	<b>118.6</b>	<b>116.5</b>	<b>114.0</b>	<b>114.0†</b>
Potatoes . . . . .	3.30	137.9	135.4	122.5	126.5	100.0	125.7	144.7	212.7	183.9	232.3	253.6	166.3	249.5
Sugarcane (Gur) . . . . .	2.39	93.8	58.8	107.8	116.5	100.0	72.3	100.4	109.2	173.1	152.9	113.4	129.4	159.6
Tobacco . . . . .	1.12	134.9	113.9	124.4	117.0	100.0	110.7	102.3	107.6	145.1	133.7	113.1	113.1	133.7
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>6.81</b>	<b>121.9</b>	<b>105.0</b>	<b>117.7</b>	<b>121.4</b>	<b>100.0</b>	<b>104.5</b>	<b>122.2</b>	<b>159.1</b>	<b>173.7</b>	<b>188.2</b>	<b>181.3</b>	<b>144.6</b>	<b>198.9</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>26.39</b>	<b>149.3</b>	<b>106.9</b>	<b>110.5</b>	<b>122.4</b>	<b>100.0</b>	<b>110.6</b>	<b>136.7</b>	<b>136.1</b>	<b>136.1</b>	<b>174.8</b>	<b>167.2</b>	<b>159.2</b>	<b>182.3</b>
<b>ALL-CROPS . . . . .</b>	<b>100.00</b>	<b>109.3</b>	<b>118.7</b>	<b>97.3</b>	<b>105.4</b>	<b>100.0</b>	<b>98.2</b>	<b>103.6</b>	<b>104.7</b>	<b>123.3</b>	<b>123.3</b>	<b>115.7</b>	<b>127.8</b>	<b>139.8</b>

\*Original base and, therefore, the weights relate to agricultural year 1949-50.

†Provisional.

NOTE.—The indices for the years 1962-63 and 1963-64 are generally based on 'Partially Revised Estimates' while those for 1964-65 on 'Final Estimates', The indices for these years are, therefore, subject to revision.

APPENDIX 2.48

*Index Numbers of Agricultural Productivity—West Bengal*

(Base: Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS</b>													
Rice . . . . .	89.8	115.4	89.5	95.8	100.0	93.5	91.3	90.8	111.9	102.6	94.4	112.7	120.3
Wheat . . . . .	252.5	222.0	228.7	204.3	100.0	177.1	211.7	201.6	225.8	230.0	190.1	179.9	205.5
Maize . . . . .	99.2	107.3	96.7	101.6	100.0	104.7	97.8	119.9	91.6	82.0	93.2	93.9	102.5
Barley . . . . .	197.9	168.2	170.3	153.7	100.0	95.3	156.1	99.5	117.9	162.8	133.3	140.1	132.0
CEREALS . . . . .	91.8	117.0	91.1	97.3	100.0	95.2	93.1	92.1	113.6	103.9	95.1	112.6	118.3
Grain . . . . .	138.4	127.6	140.7	118.9	100.0	85.6	91.8	75.5	93.3	78.0	88.1	91.6	84.7
Other Pulses . . . . .	121.5	112.0	135.9	123.5	100.0	100.7	123.3	109.3	121.6	110.1	118.7	125.8	122.8
PULSES . . . . .	126.5	116.6	138.4	123.1	100.0	96.8	116.4	100.2	118.9	105.5	114.3	121.5	118.0
FOODGRAINS . . . . .	93.3	115.0	93.5	98.1	100.0	95.3	93.6	91.6	112.6	102.7	95.1	111.5	116.8

## II. NON-FOODGRAINS

Rapeseed and Mustard	156.9	111.4	128.7	118.3	100.0	102.7	129.0	74.1	115.6	86.1	110.8	94.9	99.0
Linseed	249.0	177.5	170.0	202.1	100.0	157.9	180.0	110.8	137.3	92.0	152.6	136.8	106.4
<b>OILSEEDS</b>	<b>190.8</b>	<b>131.9</b>	<b>147.4</b>	<b>138.7</b>	<b>100.0</b>	<b>128.1</b>	<b>147.1</b>	<b>81.7</b>	<b>123.8</b>	<b>93.9</b>	<b>121.7</b>	<b>104.6</b>	<b>108.8</b>
Jute	149.0	143.2	133.9	126.9	100.0	118.8	145.9	129.7	135.9	144.2	142.7	146.0	157.8
<b>FIBRES</b>	<b>149.0</b>	<b>143.2</b>	<b>133.9</b>	<b>126.9</b>	<b>100.0</b>	<b>118.8</b>	<b>145.9</b>	<b>129.7</b>	<b>135.9</b>	<b>144.2</b>	<b>142.7</b>	<b>146.0</b>	<b>157.8</b>
Tea	143.5	105.3	103.0	100.0	100.0	101.5	103.9	110.1	107.9	116.3	113.7	110.1	110.1*
<b>PLANTATION CROPS</b>	<b>143.5</b>	<b>105.3</b>	<b>103.0</b>	<b>100.0</b>	<b>100.0</b>	<b>101.5</b>	<b>103.9</b>	<b>110.1</b>	<b>107.9</b>	<b>116.3</b>	<b>113.7</b>	<b>110.1</b>	<b>110.1*</b>
Potatoes	162.8	153.7	135.1	126.5	100.0	120.6	138.9	175.5	149.6	193.1	183.6	122.6	173.1
Sugarcane (Gur)	106.2	73.5	111.5	112.8	100.0	74.8	91.3	80.9	104.9	107.9	88.3	95.8	93.8
Tobacco	134.9	116.8	118.5	117.0	100.0	110.7	113.1	113.3	135.0	130.4	119.1	122.3	140.4
<b>MISCELLANEOUS CROPS</b>	<b>137.7</b>	<b>119.9</b>	<b>123.9</b>	<b>120.3</b>	<b>100.0</b>	<b>103.1</b>	<b>116.8</b>	<b>132.4</b>	<b>131.9</b>	<b>153.1</b>	<b>142.2</b>	<b>113.4</b>	<b>144.5</b>
<b>NON-FOODGRAINS</b>	<b>142.5</b>	<b>127.6</b>	<b>124.2</b>	<b>113.9</b>	<b>100.0</b>	<b>112.7</b>	<b>121.4</b>	<b>117.1</b>	<b>128.8</b>	<b>125.7</b>	<b>127.9</b>	<b>121.7</b>	<b>132.4</b>
<b>ALL CROPS</b>	<b>107.1</b>	<b>113.6</b>	<b>99.4</b>	<b>103.5</b>	<b>100.0</b>	<b>100.0</b>	<b>104.1</b>	<b>101.2</b>	<b>117.0</b>	<b>116.4</b>	<b>110.5</b>	<b>119.7</b>	<b>127.8</b>

\* Provisional.

NOTE.—The indices for the years 1962-63 and 1963-64 are generally based on 'Partially Revised Estimates' while those for 1964-65 on 'Final Estimates'. The indices for these years are, therefore, subject to revision.

APPENDIX 2-49

*Index Numbers of Area under Crops—Uttar Pradesh*

(Base : Agricultural Year 1956-57=100)

Crop/Groups	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS</b>													
Rice . . . . .	92.8	95.0	95.4	97.6	100.0	101.0	107.1	107.6	108.5	108.2	110.9	112.7	114.8
Jowar . . . . .	112.0	102.9	113.4	98.2	100.0	95.7	102.3	101.9	100.0	95.7	98.9	99.4	99.0
Bajra . . . . .	98.1	101.2	103.7	98.5	100.0	96.4	95.9	95.6	96.8	86.1	90.9	90.0	94.6
Maize . . . . .	84.8	101.2	103.5	94.6	100.0	106.8	107.8	107.7	104.0	107.1	106.0	107.2	111.4
Ragi . . . . .	99.6	101.7	103.6	99.8	100.0	103.9	104.5	102.6	102.1	87.6	88.0	91.2	106.0
Small Millets . . . . .	110.4	108.9	115.3	97.6	100.0	97.9	107.1	104.8	101.3	98.2	95.0	91.5	86.7
<b>KHARIF CEREALS . . . . .</b>	<b>96.2</b>	<b>98.8</b>	<b>101.5</b>	<b>97.4</b>	<b>100.0</b>	<b>100.3</b>	<b>104.9</b>	<b>104.9</b>	<b>104.5</b>	<b>102.1</b>	<b>104.1</b>	<b>104.9</b>	<b>107.1</b>
Wheat . . . . .	83.6	92.5	93.1	99.8	100.0	92.8	95.8	96.0	97.5	101.5	100.0	97.0	95.9
Barley . . . . .	97.3	103.0	97.4	98.6	100.0	89.0	93.0	92.4	92.5	91.4	84.0	79.3	74.0
<b>RABI CEREALS . . . . .</b>	<b>88.1</b>	<b>96.0</b>	<b>94.6</b>	<b>99.4</b>	<b>100.0</b>	<b>91.5</b>	<b>94.9</b>	<b>94.8</b>	<b>95.8</b>	<b>98.2</b>	<b>94.7</b>	<b>91.1</b>	<b>88.6</b>
<b>CEREALS . . . . .</b>	<b>92.7</b>	<b>97.6</b>	<b>98.5</b>	<b>98.3</b>	<b>100.0</b>	<b>96.4</b>	<b>100.5</b>	<b>100.4</b>	<b>100.7</b>	<b>100.4</b>	<b>100.0</b>	<b>98.9</b>	<b>99.1</b>
Gram . . . . .	97.8	107.2	106.8	109.2	100.0	103.5	109.4	108.3	102.6	103.6	99.3	104.6	103.3
Tur . . . . .	103.9	88.2	98.3	89.3	100.0	94.5	97.1	99.9	98.8	93.3	97.0	95.9	98.8
Other Pulses . . . . .	95.8	99.4	92.7	94.7	100.0	113.9	111.0	108.9	108.9	115.4	119.9	120.5	107.9

PULSES . . . . .	98.1	102.2	101.6	102.1	100.0	105.1	108.0	107.2	103.8	105.3	104.7	107.7	103.8
FOODGRAINS . . . . .	94.0	98.7	99.2	99.2	100.0	98.5	102.3	102.1	101.5	101.6	101.2	101.1	100.3
<b>II. NON-FOODGRAINS</b>													
Groundnut . . . . .	69.7	65.5	76.6	76.8	100.0	124.5	125.8	120.5	137.1	168.4	177.1	193.7	212.9
Sesamum . . . . .	109.7	102.9	111.3	100.5	100.0	96.1	100.4	97.8	138.8	132.2	148.8	158.9	161.2
Rapeseed & Mustard . . . . .	87.4	94.4	96.0	100.8	100.0	87.1	87.2	92.7	92.0	97.3	92.2	89.7	87.1
Linseed . . . . .	93.5	106.1	100.2	105.3	100.0	91.9	106.7	103.6	96.6	115.0	110.2	119.7	124.2
Castorseed . . . . .	116.7	116.7	116.7	83.3	100.0	100.0	116.7	100.0	100.0	83.3	83.3	83.3	66.6
OILSEEDS . . . . .	91.5	95.9	98.3	99.9	100.0	91.9	94.9	96.9	101.9	109.2	108.0	110.5	111.0
Cotton . . . . .	139.9	96.6	81.1	95.3	100.0	133.6	133.1	108.1	106.8	120.3	127.7	162.2	114.9
Jute . . . . .	57.1	41.1	44.6	60.7	100.0	126.8	64.3	58.9	57.1	105.4	94.7	84.0	80.4
FIBRES . . . . .	117.2	79.9	71.1	85.8	100.0	131.9	114.2	94.6	93.1	116.2	118.7	140.8	105.5
Sugarcane . . . . .	86.3	64.4	74.8	88.7	100.0	98.9	89.6	96.0	107.1	109.8	101.7	99.0	111.9
Tobacco . . . . .	128.3	91.3	95.7	106.5	100.0	73.9	91.3	93.5	104.3	87.0	84.8	87.0	69.6
Potatoes . . . . .	92.0	97.0	101.3	101.3	100.0	109.3	114.8	124.5	118.6	119.0	133.8	127.5	128.3
MISCELLANEOUS CROPS . . . . .	87.2	67.0	76.9	89.8	100.0	99.3	91.4	98.0	107.9	110.2	103.8	100.9	112.6
NON-FOODGRAINS . . . . .	90.5	85.5	90.3	96.1	100.0	95.3	94.1	97.2	103.5	109.6	106.9	108.2	111.3
ALL CROPS . . . . .	93.4	96.3	97.6	98.7	100.0	97.9	100.9	101.2	102.0	103.4	102.5	102.7	102.7

NOTE.—The indices for the years 1962-63 and 1963-64 are generally based on Partially Revised Estimates, while those for the year 1964-65 on Final Estimates. The indices for these years are, therefore, subject to revision.

APPENDIX 2.50

*Index Numbers of Agricultural Production—Uttar Pradesh*

(Base : Agricultural Year 1956-57=100)

Crop/Group	Weight 1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS</b>														
Rice . . . . .	14.21	81.0	98.7	94.3	111.4	100.0	100.7	130.6	106.1	135.7	148.3	130.4	136.7	137.7
Jowar . . . . .	2.06	154.2	120.5	175.5	85.2	100.0	110.7	142.1	132.4	110.8	71.4	132.5	111.7	130.1
Bajra . . . . .	2.68	131.1	135.1	166.0	120.3	100.0	129.5	119.3	131.1	90.9	81.6	130.1	113.4	146.3
Maize . . . . .	4.50	81.6	67.2	81.2	62.4	100.0	79.6	62.0	102.7	62.4	69.3	99.7	77.7	88.2
Ragi . . . . .	0.41	97.0	97.7	103.7	96.3	100.0	102.0	106.6	97.9	98.2	96.4	111.9	97.1	122.0
Small Millets . . . . .	0.66	130.6	101.6	140.0	72.9	100.0	108.5	131.9	105.6	102.8	100.3	93.5	122.3	121.5
<b>KHARIF CEREALS</b> . . . . .	<b>24.52</b>	<b>94.3</b>	<b>98.8</b>	<b>108.0</b>	<b>99.9</b>	<b>100.0</b>	<b>101.0</b>	<b>117.4</b>	<b>110.3</b>	<b>113.7</b>	<b>117.9</b>	<b>123.6</b>	<b>119.9</b>	<b>128.2</b>
Wheat . . . . .	19.81	90.7	99.7	105.4	97.6	100.0	86.9	97.5	104.1	124.6	131.5	101.6	85.9	126.0
Barley . . . . .	7.91	110.6	110.1	107.4	100.3	100.0	78.9	87.4	91.6	104.0	110.6	84.0	69.8	90.2
<b>RABI CEREALS</b> . . . . .	<b>27.72</b>	<b>96.3</b>	<b>102.7</b>	<b>106.0</b>	<b>98.4</b>	<b>100.0</b>	<b>84.6</b>	<b>94.6</b>	<b>100.5</b>	<b>118.7</b>	<b>125.5</b>	<b>96.6</b>	<b>81.3</b>	<b>115.8</b>
<b>CEREALS</b> . . . . .	<b>52.24</b>	<b>95.4</b>	<b>100.9</b>	<b>106.9</b>	<b>99.1</b>	<b>100.0</b>	<b>92.3</b>	<b>105.3</b>	<b>105.1</b>	<b>116.4</b>	<b>121.9</b>	<b>109.3</b>	<b>99.4</b>	<b>121.6</b>
Gram . . . . .	7.73	104.3	115.5	117.8	95.7	100.0	94.1	116.7	98.6	119.6	99.1	101.0	93.0	123.9
Tur . . . . .	5.23	68.9	60.9	65.8	74.7	100.0	56.7	61.7	70.5	82.7	36.4	60.8	31.4	73.8
Other pulses . . . . .	3.41	109.3	117.1	112.1	101.7	100.0	107.1	124.4	120.4	103.3	102.5	95.1	63.4	91.8

PULSES . . . . .	16.38	94.0	98.4	100.0	90.3	100.0	84.8	100.7	94.2	104.4	79.8	86.9	67.1	101.1
FOODGRAINS . . . . .	68.62	95.1	100.3	105.3	97.0	100.0	90.5	104.2	102.5	113.5	111.9	104.0	91.7	116.7
<b>II. NON-FOODGRAINS</b>														
Groundnut . . . . .	0.92	66.6	68.2	81.0	75.5	100.0	101.0	101.3	127.0	122.9	157.7	184.2	186.3	136.7
Sesamum . . . . .	0.97	125.2	107.6	151.7	87.9	100.0	79.9	140.9	102.3	104.7	102.5	149.3	188.5	196.1
Rapeseed and Mustard . . . . .	6.45	89.4	89.0	102.1	70.6	100.0	84.8	97.0	114.9	150.7	139.5	119.1	95.4	154.5
Linseed . . . . .	0.88	118.7	125.0	129.5	114.7	100.0	72.1	142.6	129.1	123.0	159.5	123.1	116.2	175.3
Castorseed . . . . .	0.01	137.1	126.0	130.9	94.8	100.0	88.1	160.1	110.8	109.7	93.4	93.4	93.4	93.4
OILSEEDS . . . . .	9.23	93.7	92.4	107.8	77.2	100.0	84.7	106.5	116.1	140.4	139.3	129.1	116.2	159.0
Cotton . . . . .	0.09	149.8	114.6	88.3	61.4	100.0	132.2	72.8	128.2	100.2	107.5	148.5	110.1	122.9
Jute . . . . .	0.25	40.9	38.4	42.5	56.4	100.0	100.4	60.1	58.2	58.6	121.8	96.7	89.2	100.0
FIBRES . . . . .	0.34	69.7	58.6	54.6	57.8	100.0	108.8	63.6	79.4	69.6	117.9	110.4	94.7	106.1
Sugarcane (ur) . . . . .	19.98	75.8	59.3	80.9	84.1	100.0	87.8	88.0	92.2	98.1	104.7	88.2	97.1	119.2
Tobacco . . . . .	0.24	124.9	81.5	97.9	100.5	100.0	71.0	87.2	90.5	106.4	80.0	86.7	73.4	73.4
Potatoes . . . . .	1.59	105.2	105.8	105.6	111.3	100.0	117.9	129.1	140.3	129.7	107.3	132.0	89.7	170.8
MISCELLANEOUS CROPS . . . . .	21.81	78.5	62.9	82.9	86.2	100.0	89.8	91.0	95.7	100.5	104.6	91.4	96.3	122.5
NON-FOODGRAINS . . . . .	31.38	82.9	71.5	89.9	83.3	100.0	91.4	95.2	101.5	111.9	114.9	102.7	102.1	133.1
ALL CROPS . . . . .	100.00	91.3	91.3	100.4	92.7	100.0	90.8	101.4	102.2	113.0	112.8	103.6	95.0	121.8

NOTE.—The indices for the years 1962-63 and 1963-64 are generally based on Partially revised Estimates while those for 1964-65 on Final Estimates. The indices for these years are, therefore, subject to revision.

APPENDIX 2.51

*Index Numbers of Agricultural Productivity—Uttar Pradesh*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS</b>													
Rice . . . . .	87.3	103.9	98.8	114.1	100.0	99.7	121.9	98.6	125.1	132.4	117.6	120.9	119.9
Jowar . . . . .	137.7	117.1	154.8	86.8	100.0	115.7	138.9	129.9	110.8	74.6	134.0	112.4	131.4
Bajra . . . . .	133.6	133.5	160.1	122.1	100.0	134.3	124.4	137.1	93.9	94.8	143.1	126.0	154.7
Maize . . . . .	96.2	66.4	78.5	66.0	100.0	74.5	57.5	95.4	60.0	64.7	94.1	72.5	79.2
Ragi . . . . .	97.4	96.1	100.1	96.5	100.0	98.2	102.0	95.4	96.2	110.0	127.2	106.5	115.1
Small Millets . . . . .	118.3	93.6	121.4	74.7	100.0	110.8	123.1	100.8	101.5	102.1	98.4	133.7	140.1
<b>KHARIF CEREALS</b> . . . . .	98.0	100.0	106.4	102.6	100.0	100.7	111.9	105.1	108.8	115.5	118.7	114.3	119.7
Wheat . . . . .	108.5	107.8	115.2	97.8	100.0	93.6	101.8	108.4	127.8	129.6	101.6	88.6	131.4
Barley . . . . .	113.7	106.9	110.3	101.7	100.0	88.7	94.0	99.1	112.4	121.0	100.0	88.0	121.9
<b>RABI CEREALS</b> . . . . .	109.3	107.0	112.1	99.0	100.0	92.5	99.7	106.0	123.9	127.8	102.0	89.2	130.7
<b>CEREALS</b> . . . . .	102.9	103.4	108.5	100.8	100.0	95.7	104.8	104.7	115.6	121.4	109.3	100.5	122.7
Gram . . . . .	106.6	107.7	110.3	87.6	100.0	90.0	106.7	91.0	116.6	95.7	101.7	88.9	119.9
Tur . . . . .	66.3	89.0	66.9	83.7	100.0	60.0	63.5	70.6	83.7	39.0	62.7	32.7	74.7
Other Pulses . . . . .	114.1	117.8	120.9	107.4	100.0	94.0	112.1	110.6	94.9	88.8	79.3	52.6	85.1



PULSES	95.8	96.3	98.4	88.4	100.0	80.7	93.2	87.9	100.6	75.8	83.0	62.3	97.4
FOODGRAINS	101.2	101.6	106.1	97.8	100.0	91.9	101.9	100.4	111.8	110.1	102.8	90.7	116.4
II. NON-FOODGRAINS													
Groundnut	95.6	104.1	105.7	98.3	100.0	81.1	80.5	105.4	89.6	93.7	104.0	96.2	64.2
Sesamum	114.1	104.6	136.3	87.5	100.0	83.1	140.3	104.6	75.4	77.5	100.3	118.6	121.7
Rapeseed & Mustard	102.3	94.3	106.4	70.0	100.0	97.4	111.2	123.9	163.8	143.4	129.2	106.4	177.4
Linseed	126.9	117.8	129.2	108.9	100.0	78.4	133.6	124.6	127.3	138.7	111.7	97.1	141.1
Castorseed	117.5	108.0	112.2	113.8	100.0	88.1	137.2	110.8	109.7	112.1	112.1	112.1	140.2
OILSEEDS	102.4	96.4	109.7	77.3	100.0	92.2	112.2	119.8	137.8	127.6	110.5	105.2	143.2
Cotton	107.1	118.6	108.9	64.4	100.0	98.8	54.6	118.6	93.8	89.4	116.3	67.9	107.0
Jute	71.6	93.4	92.3	92.9	100.0	79.2	93.5	98.8	102.6	115.6	102.1	106.2	124.4
FIBRES	59.5	73.3	76.8	67.4	100.0	82.5	55.7	83.9	74.8	101.4	93.0	67.3	100.6
Sugarcane (Gur)	87.8	92.1	108.2	94.8	100.0	88.8	98.2	96.0	91.6	95.4	86.7	98.1	106.5
Tobacco	97.3	89.3	102.3	94.4	100.0	96.1	95.5	96.8	102.0	92.0	102.2	84.4	105.5
Potatoes	114.3	109.1	104.2	109.9	100.0	107.9	112.5	112.7	109.4	90.2	98.7	70.4	133.1
MISCELLANEOUS	90.0	93.9	107.8	96.0	100.0	90.4	99.6	97.6	93.1	94.9	88.1	95.4	108.8
NON-FOODGRAINS	91.6	83.6	99.6	86.7	100.0	95.9	101.2	104.4	108.1	104.8	96.1	94.4	119.6
ALL CROPS	97.8	94.8	102.9	93.9	100.0	92.7	100.5	101.0	110.8	109.1	101.1	92.5	118.6

NOTE.—The indices for the years 1962-63 and 1963-64 are generally based on partially Revised Estimates, while those for the year 1964-65 on Final Estimates. The indices for these years are, therefore, subject to revision.

APPENDIX 2.52

*Index Numbers of Area under Crops— Assam*

(Base : Agricultural Year 1956-57=100)

Crop/Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	97.5	98.1	96.5	99.0	100.0	99.6	105.3	105.3	107.0	109.5	111.2	107.2	110.6
Maize . . . . .	97.9	94.8	100.6	110.0	100.0	108.3	114.7	99.7	100.5	103.3	122.4	134.7	143.7
Small Millets . . . . .	123.6	75.7	46.3	117.4	100.0	43.3	103.7	102.1	101.1	103.3	175.3	160.0	155.8
<b>KHARIF CEREALS . . . . .</b>	<b>97.6</b>	<b>98.0</b>	<b>96.4</b>	<b>99.1</b>	<b>100.0</b>	<b>99.6</b>	<b>105.3</b>	<b>105.3</b>	<b>106.9</b>	<b>109.5</b>	<b>111.5</b>	<b>107.6</b>	<b>111.1</b>
Wheat . . . . .	130.8	120.2	146.7	89.6	100.0	108.0	200.7	194.4	191.5	201.4	199.9	198.1	212.6
<b>RABI CEREALS . . . . .</b>	<b>130.8</b>	<b>120.2</b>	<b>146.7</b>	<b>89.6</b>	<b>100.0</b>	<b>108.0</b>	<b>200.7</b>	<b>194.4</b>	<b>191.5</b>	<b>201.4</b>	<b>199.9</b>	<b>198.1</b>	<b>212.6</b>
<b>CEREALS . . . . .</b>	<b>97.6</b>	<b>98.0</b>	<b>96.4</b>	<b>99.1</b>	<b>100.0</b>	<b>99.6</b>	<b>105.4</b>	<b>105.4</b>	<b>107.0</b>	<b>109.6</b>	<b>111.6</b>	<b>107.6</b>	<b>111.2</b>
Gram . . . . .	217.3	204.4	144.8	184.5	100.0	117.3	110.1	106.0	108.1	114.5	142.3	108.1	112.7
Tur . . . . .	149.0	167.8	108.7	109.9	100.0	95.6	102.4	124.9	129.1	126.4	130.8	107.6	108.3
Other Pulses (Rabi) . . . . .	77.5	80.9	89.9	88.7	100.0	97.2	100.8	98.2	90.9	89.4	92.5	101.7	101.4
<b>PULSES . . . . .</b>	<b>82.0</b>	<b>85.5</b>	<b>91.4</b>	<b>91.0</b>	<b>100.0</b>	<b>97.5</b>	<b>101.0</b>	<b>99.1</b>	<b>92.2</b>	<b>90.9</b>	<b>94.4</b>	<b>101.9</b>	<b>101.8</b>
<b>FOODGRAINS . . . . .</b>	<b>96.9</b>	<b>97.4</b>	<b>96.2</b>	<b>98.8</b>	<b>100.0</b>	<b>99.5</b>	<b>105.2</b>	<b>105.1</b>	<b>106.4</b>	<b>108.7</b>	<b>110.8</b>	<b>107.4</b>	<b>110.8</b>

## II. NON-FOODGRAINS—

Linsced . . . . .	119.8	145.2	153.1	95.2	100.0	240.3	104.8	110.1	109.7	124.6	120.5	165.8	130.1
Castorseed . . . . .	67.2	79.9	100.4	100.4	100.0	95.7	109.0	112.4	119.1	115.1	119.0	97.3	103.1
Sesamun . . . . .	72.6	72.7	85.7	98.5	100.0	98.1	100.7	101.6	102.5	110.7	121.6	112.3	124.5
Rapeseed and Mustard . . . . .	96.8	95.1	93.8	95.1	100.0	97.9	101.5	99.7	97.0	99.1	105.8	97.4	99.8
<b>OILSEEDS . . . . .</b>	<b>95.1</b>	<b>93.8</b>	<b>93.8</b>	<b>95.4</b>	<b>100.0</b>	<b>98.8</b>	<b>101.5</b>	<b>100.1</b>	<b>97.8</b>	<b>100.2</b>	<b>107.0</b>	<b>98.7</b>	<b>101.5</b>
Jute . . . . .	105.3	95.4	94.8	112.0	100.0	108.0	111.9	113.3	109.4	117.0	112.1	112.4	109.0
Cotton . . . . .	108.7	108.1	99.1	101.7	100.0	98.8	99.3	103.4	102.6	104.9	111.6	119.2	119.5
Mesta . . . . .	74.7	66.8	60.5	112.3	100.0	134.2	239.9	256.9	281.4	440.4	478.6	420.1	561.3
<b>FIBRES . . . . .</b>	<b>105.2</b>	<b>96.3</b>	<b>94.8</b>	<b>110.9</b>	<b>100.0</b>	<b>107.4</b>	<b>112.4</b>	<b>114.4</b>	<b>111.0</b>	<b>120.2</b>	<b>117.1</b>	<b>117.3</b>	<b>116.4</b>
Tea . . . . .	100.2	100.2	100.2	100.5	100.0	101.8	102.5	102.4	104.2	104.5	105.3	103.2	105.0
<b>PLANTATION CROPS . . . . .</b>	<b>100.2</b>	<b>100.2</b>	<b>100.2</b>	<b>100.5</b>	<b>100.0</b>	<b>101.8</b>	<b>102.5</b>	<b>102.4</b>	<b>104.2</b>	<b>104.5</b>	<b>105.3</b>	<b>103.2</b>	<b>105.0</b>
Sugarcane . . . . .	107.3	100.5	94.4	99.6	100.0	99.5	103.8	109.3	106.7	111.6	111.1	110.1	116.0
Potatoes . . . . .	94.8	97.8	97.0	101.3	100.0	107.8	112.6	115.4	115.2	120.2	128.5	126.4	132.3
Tobacco . . . . .	92.1	96.8	101.2	101.9	100.0	101.7	102.7	105.4	105.9	111.5	117.0	103.4	107.1
Chillies . . . . .	47.3	58.2	62.2	85.0	100.0	107.1	128.0	130.6	136.2	147.3	147.5	153.1	146.4
<b>MISCELLANEOUS CROPS . . . . .</b>	<b>95.8</b>	<b>95.9</b>	<b>94.1</b>	<b>99.6</b>	<b>100.0</b>	<b>103.8</b>	<b>109.0</b>	<b>112.8</b>	<b>112.2</b>	<b>117.7</b>	<b>121.6</b>	<b>118.9</b>	<b>123.6</b>
<b>NON-FOODGRAINS . . . . .</b>	<b>99.6</b>	<b>96.8</b>	<b>96.1</b>	<b>101.9</b>	<b>100.0</b>	<b>102.8</b>	<b>105.9</b>	<b>106.5</b>	<b>105.5</b>	<b>109.5</b>	<b>111.3</b>	<b>108.1</b>	<b>109.7</b>
<b>ALL CROPS . . . . .</b>	<b>97.5</b>	<b>97.3</b>	<b>96.2</b>	<b>99.4</b>	<b>100.0</b>	<b>100.2</b>	<b>105.4</b>	<b>105.4</b>	<b>106.2</b>	<b>108.9</b>	<b>110.9</b>	<b>107.5</b>	<b>110.5</b>

NOTE.—Index Numbers for the years 1963-64 and 1964-65 are generally based on Final Estimates and are, therefore, subject to revision

## APPENDIX 2.53

### *Index Numbers of Agricultural Production- Assam*

(Base : Agricultural year 1956-57=100)

Crop/Group	Weight	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>I. FOODGRAINS—</b>														
Rice . . . . .	43.71	96.0	97.6	99.0	94.3	100.0	94.9	98.1	101.6	101.1	102.2	92.3	106.7	110.4
Maize . . . . .	0.14	99.6	117.1	92.0	100.3	100.0	103.9	105.3	80.0	80.3	88.3	103.4	116.3	133.3
Small Millets . . . . .	0.03	109.8	72.1	35.7	103.0	100.0	42.9	72.1	86.5	87.1	88.1	146.9	137.1	140.3
<b>KHARIF CEREALS . . . . .</b>	<b>43.88</b>	<b>96.0</b>	<b>97.6</b>	<b>98.9</b>	<b>94.3</b>	<b>100.0</b>	<b>94.8</b>	<b>98.1</b>	<b>101.5</b>	<b>101.0</b>	<b>102.1</b>	<b>92.4</b>	<b>106.8</b>	<b>110.5</b>
Wheat . . . . .	0.02	210.6	178.0	163.1	89.2	100.0	119.8	227.7	201.2	310.7	324.7	318.3	322.8	355.5
<b>RABI CEREALS . . . . .</b>	<b>0.02</b>	<b>210.6</b>	<b>178.0</b>	<b>163.1</b>	<b>89.2</b>	<b>100.0</b>	<b>119.8</b>	<b>227.7</b>	<b>201.2</b>	<b>310.7</b>	<b>324.7</b>	<b>318.3</b>	<b>322.8</b>	<b>355.5</b>
<b>CEREALS . . . . .</b>	<b>43.90</b>	<b>96.1</b>	<b>97.6</b>	<b>98.9</b>	<b>94.3</b>	<b>100.0</b>	<b>94.8</b>	<b>98.2</b>	<b>101.5</b>	<b>101.1</b>	<b>102.2</b>	<b>92.5</b>	<b>106.9</b>	<b>110.6</b>
Gram . . . . .	0.02	251.3	237.2	163.2	169.7	100.0	130.3	126.5	111.1	115.6	126.5	156.3	137.8	138.0
Tur . . . . .	0.04	62.4	164.7	108.9	107.3	100.0	94.0	94.5	105.8	118.1	116.2	123.1	102.1	103.3
Other Pulses (Rabi) . . . . .	0.57	70.4	<b>86.3</b>	89.9	88.7	100.0	97.1	100.8	78.6	78.9	92.9	88.0	106.9	111.5
<b>PULSES . . . . .</b>	<b>0.63</b>	<b>75.6</b>	<b>96.1</b>	<b>93.4</b>	<b>92.5</b>	<b>100.0</b>	<b>98.0</b>	<b>101.2</b>	<b>81.4</b>	<b>82.6</b>	<b>95.4</b>	<b>92.4</b>	<b>107.6</b>	<b>111.8</b>
<b>FOODGRAINS . . . . .</b>	<b>44.53</b>	<b>95.8</b>	<b>97.6</b>	<b>98.8</b>	<b>94.2</b>	<b>100.0</b>	<b>94.8</b>	<b>98.2</b>	<b>101.2</b>	<b>100.8</b>	<b>102.1</b>	<b>92.5</b>	<b>106.9</b>	<b>110.6</b>

II. NON-FOODGRAINS—

Linseed . . . . .	0.01	95.7	115.5	97.1	99.7	100.0	214.3	94.0	93.4	93.1	107.4	108.6	169.0	127.8
Castorseed . . . . .	0.02	78.2	95.7	168.5	101.8	100.0	109.5	131.1	130.7	139.0	135.9	141.5	124.6	134.4
Sesamum . . . . .	0.13	71.3	70.3	71.7	122.0	100.0	100.4	103.3	101.4	103.9	109.2	124.5	118.9	122.7
Rapeseed and Mustard . . . . .	2.07	75.7	75.7	74.7	88.3	100.0	88.9	102.8	66.6	72.2	67.0	76.6	80.1	80.6
<b>OILSEEDS</b> . . . . .	<b>2.23</b>	<b>75.6</b>	<b>75.7</b>	<b>75.5</b>	<b>90.4</b>	<b>100.0</b>	<b>90.3</b>	<b>103.0</b>	<b>69.3</b>	<b>74.7</b>	<b>70.3</b>	<b>80.1</b>	<b>83.2</b>	<b>83.7</b>
Jute . . . . .	5.85	101.8	100.6	83.7	122.1	100.0	114.5	116.6	116.0	99.6	121.8	77.7	113.9	97.7
Cotton . . . . .	0.15	188.0	101.7	93.2	95.6	100.0	90.9	73.6	98.2	65.7	67.6	71.9	76.8	77.0
Mesta . . . . .	0.01	89.6	83.3	48.7	109.0	100.0	129.1	226.9	238.8	214.4	367.8	362.0	299.9	394.0
<b>FIBRES</b> . . . . .	<b>6.01</b>	<b>103.9</b>	<b>100.6</b>	<b>83.8</b>	<b>121.4</b>	<b>100.0</b>	<b>113.9</b>	<b>115.7</b>	<b>115.8</b>	<b>98.9</b>	<b>120.8</b>	<b>78.0</b>	<b>113.3</b>	<b>97.7</b>
Tea . . . . .	41.46	89.7	86.1	95.9	91.1	100.0	102.8	102.5	102.4	94.3	109.3	104.0	101.7	115.7
<b>PLANTATION CROPS</b> . . . . .	<b>41.46</b>	<b>89.7</b>	<b>86.1</b>	<b>95.9</b>	<b>91.1</b>	<b>100.0</b>	<b>102.8</b>	<b>102.5</b>	<b>102.4</b>	<b>94.3</b>	<b>109.3</b>	<b>104.0</b>	<b>101.7</b>	<b>115.7</b>
Sugarcane (Gur) . . . . .	2.01	113.6	92.6	84.1	98.5	100.0	95.5	111.6	97.1	106.5	136.1	119.5	118.5	140.6
Potatoes . . . . .	1.88	143.1	164.2	133.1	145.5	100.0	133.9	181.6	161.8	167.7	151.5	154.0	114.6	168.5
Tobacco . . . . .	1.49	95.7	100.7	103.8	105.4	100.0	94.9	95.9	98.3	99.9	109.5	114.4	103.4	106.4
Chillies (Dry) . . . . .	0.39	17.8	21.8	37.1	101.7	100.0	105.4	126.3	118.1	125.3	132.5	132.6	138.0	136.3
<b>MISCELLANEOUS CROPS</b> . . . . .	<b>5.77</b>	<b>112.1</b>	<b>113.2</b>	<b>102.0</b>	<b>115.9</b>	<b>100.0</b>	<b>108.5</b>	<b>131.3</b>	<b>119.9</b>	<b>126.0</b>	<b>134.0</b>	<b>130.3</b>	<b>114.6</b>	<b>140.6</b>
<b>NON-FOODGRAINS</b> . . . . .	<b>55.47</b>	<b>93.0</b>	<b>90.1</b>	<b>94.4</b>	<b>96.9</b>	<b>100.0</b>	<b>104.1</b>	<b>106.9</b>	<b>104.3</b>	<b>97.3</b>	<b>111.5</b>	<b>103.0</b>	<b>103.6</b>	<b>115.1</b>
<b>ALL CROPS</b> . . . . .	<b>100.0</b>	<b>94.2</b>	<b>93.4</b>	<b>96.4</b>	<b>95.7</b>	<b>100.0</b>	<b>100.0</b>	<b>103.0</b>	<b>102.9</b>	<b>98.9</b>	<b>107.3</b>	<b>98.3</b>	<b>105.1</b>	<b>113.1</b>

NOTE.—Index Numbers for the years 1963-64 and 1964-65 are generally based on Final Estimates and are, therefore, subject to revision.

APPENDIX 2·54

*Index Numbers of Agricultural Productivity—Assam*

(Base : Agricultural year 1956-57=100)

Crop Group	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>I. FOODGRAINS—</b>													
Rice . . . . .	98·5	99·5	102·6	95·3	100·0	95·3	93·2	96·5	94·5	93·3	83·0	99·5	99·8
Maize . . . . .	101·7	123·5	91·5	91·2	100·0	95·9	91·8	83·2	79·9	83·5	84·5	88·3	92·8
Small Millets . . . . .	88·8	85·2	77·1	87·7	100·0	99·1	69·5	84·7	86·2	85·3	83·8	85·7	90·2
<b>KHARIF CEREALS . . . . .</b>	<b>98·4</b>	<b>99·6</b>	<b>102·6</b>	<b>95·2</b>	<b>100·0</b>	<b>95·2</b>	<b>93·2</b>	<b>96·4</b>	<b>94·5</b>	<b>93·2</b>	<b>82·9</b>	<b>99·3</b>	<b>99·5</b>
Wheat . . . . .	161·0	148·1	111·2	99·6	100·0	110·9	113·5	103·5	162·2	161·2	159·2	162·9	167·2
<b>RABI CEREALS . . . . .</b>	<b>161·0</b>	<b>148·1</b>	<b>111·2</b>	<b>99·6</b>	<b>100·0</b>	<b>110·9</b>	<b>113·5</b>	<b>103·5</b>	<b>162·2</b>	<b>161·2</b>	<b>159·2</b>	<b>162·9</b>	<b>167·2</b>
<b>CEREALS . . . . .</b>	<b>98·5</b>	<b>99·6</b>	<b>102·6</b>	<b>95·2</b>	<b>100·0</b>	<b>95·2</b>	<b>93·2</b>	<b>96·3</b>	<b>94·5</b>	<b>93·2</b>	<b>82·9</b>	<b>99·3</b>	<b>99·5</b>
Gram . . . . .	115·6	116·0	112·7	92·0	100·0	111·1	114·9	104·8	106·9	110·5	109·8	127·5	122·4
Tur . . . . .	41·9	98·2	100·2	97·6	100·0	98·3	92·3	84·7	91·5	91·9	94·1	94·9	95·4
Other Pulses (Rabi) . . . . .	90·8	106·7	100·0	100·0	100·0	99·9	100·0	80·0	86·8	103·9	95·1	105·1	110·0
<b>PULSES . . . . .</b>	<b>92·2</b>	<b>112·4</b>	<b>102·2</b>	<b>101·6</b>	<b>100·0</b>	<b>100·5</b>	<b>100·2</b>	<b>82·1</b>	<b>89·6</b>	<b>105·0</b>	<b>97·9</b>	<b>105·6</b>	<b>109·8</b>
<b>FOODGRAINS . . . . .</b>	<b>98·9</b>	<b>100·2</b>	<b>102·7</b>	<b>95·3</b>	<b>100·0</b>	<b>95·3</b>	<b>93·3</b>	<b>96·3</b>	<b>94·7</b>	<b>93·9</b>	<b>83·5</b>	<b>99·5</b>	<b>99·8</b>

I. NON-FOODGRAINS—

Linseed	79.9	79.5	63.4	104.7	100.0	89.2	89.7	84.8	84.9	86.2	90.1	101.9	98.2
Castorseed	116.4	119.8	167.8	101.4	100.0	114.4	120.3	116.3	116.7	118.1	118.9	128.1	130.4
Sesamum	98.2	96.7	83.7	123.9	100.0	102.3	102.6	99.8	100.4	98.6	102.4	105.9	98.6
Rapeseed and Mustard	78.2	79.6	79.6	92.8	100.0	90.8	101.3	66.8	74.4	67.6	72.4	82.2	80.8
<b>OILSEEDS</b>	<b>79.5</b>	<b>80.7</b>	<b>80.5</b>	<b>94.8</b>	<b>100.0</b>	<b>91.4</b>	<b>101.5</b>	<b>69.2</b>	<b>76.4</b>	<b>70.2</b>	<b>74.9</b>	<b>84.3</b>	<b>82.5</b>
Jute	96.7	105.5	88.3	109.0	100.0	106.0	104.2	102.4	91.0	104.1	69.3	101.3	89.6
Cotton	173.0	94.1	94.0	94.0	100.0	92.0	74.1	95.0	64.0	64.4	64.4	64.4	64.4
Mesta	119.9	124.7	80.5	97.1	100.0	96.2	94.6	93.0	76.2	83.5	75.6	71.4	70.2
<b>FIBRES</b>	<b>98.8</b>	<b>104.5</b>	<b>88.4</b>	<b>109.5</b>	<b>100.0</b>	<b>106.1</b>	<b>102.9</b>	<b>101.2</b>	<b>89.1</b>	<b>100.5</b>	<b>66.6</b>	<b>96.6</b>	<b>83.9</b>
Tea	89.5	85.9	95.7	90.6	100.0	101.0	100.0	100.0	90.5	104.6	98.8	98.5	110.2
<b>PLANTATION CROPS</b>	<b>89.5</b>	<b>85.9</b>	<b>95.7</b>	<b>90.6</b>	<b>100.0</b>	<b>101.0</b>	<b>100.0</b>	<b>100.0</b>	<b>90.5</b>	<b>104.6</b>	<b>98.8</b>	<b>98.5</b>	<b>110.2</b>
Sugarcane (Gur)	105.8	92.1	89.1	98.9	100.0	96.0	107.5	88.8	99.8	122.0	107.6	107.6	121.2
Potatoes	150.9	167.9	137.2	143.6	100.0	124.2	161.3	140.2	145.6	126.0	119.8	90.7	127.4
Tobacco	103.9	104.0	102.6	103.4	100.0	93.3	93.4	93.3	94.3	98.2	97.8	100.0	99.3
Chillies (Dry)	37.6	37.5	59.6	119.6	100.0	98.4	98.7	90.4	92.0	90.0	89.9	90.1	93.1
<b>MISCELLANEOUS CROPS</b>	<b>117.0</b>	<b>118.0</b>	<b>108.4</b>	<b>116.4</b>	<b>100.0</b>	<b>104.5</b>	<b>120.5</b>	<b>106.3</b>	<b>112.3</b>	<b>113.8</b>	<b>107.2</b>	<b>96.4</b>	<b>113.8</b>
<b>NON-FOODGRAINS</b>	<b>93.4</b>	<b>93.1</b>	<b>98.2</b>	<b>95.1</b>	<b>100.0</b>	<b>101.3</b>	<b>100.9</b>	<b>97.9</b>	<b>92.2</b>	<b>101.8</b>	<b>92.5</b>	<b>95.8</b>	<b>104.9</b>
<b>ALL CROPS</b>	<b>96.6</b>	<b>96.0</b>	<b>100.2</b>	<b>96.3</b>	<b>100.0</b>	<b>99.8</b>	<b>97.7</b>	<b>97.6</b>	<b>93.1</b>	<b>98.5</b>	<b>88.6</b>	<b>97.8</b>	<b>102.4</b>

NOTE.—Index Numbers for the years 1963-64 and 1964-65 are generally based on Final Estimates and are, therefore, subject to revision.

## APPENDIX 3-1

*All-India Linear Rates of Growth of Agricultural Production, Area under Crops and Agricultural Productivity during 1949-50 to 1964-65*

(Average : 1949-50 to 1951-52=100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	4.21	1.34	2.43
Jowar . . . . .	2.98	0.97	1.74
Bajra . . . . .	2.64	1.10	1.27
Maize . . . . .	4.97	3.13	1.22
Ragi . . . . .	3.30	0.55	2.58
Wheat . . . . .	5.25	3.18	1.39
Barley . . . . .	(—) 0.26	(—) 0.63	0.42
CEREALS . . . . .	3.93	1.33	2.18
Gram . . . . .	3.34	1.87	1.08
PULSES . . . . .	1.86	2.12	(—)0.22
FOODGRAINS . . . . .	3.66	1.48	1.80
Groundnut . . . . .	5.23	4.65	0.32
Sesamum . . . . .	(—) 0.50	0.15	(—)0.65
Rapeseed & Mustard . . . . .	3.90	3.33	0.42
OILSEEDS . . . . .	3.85	2.93	0.66
Cotton . . . . .	6.05	2.79	2.28
Jute . . . . .	4.09	3.26	0.53
FIBRES . . . . .	5.77	2.91	2.02
Tea . . . . .	2.25	0.53	1.62
Coffee . . . . .	14.63	2.42	9.42
Sugarcane . . . . .	5.57	3.68	1.36
Tobacco . . . . .	3.15	1.99	0.93
NON-FOODGRAINS . . . . .	4.39	2.90	1.11
ALL CROPS . . . . .	3.92	1.72	1.78



## APPENDIX 3.2

*All-India Linear Rates of Growth of Agricultural Production during 1949-50 to 1964-65 with different Base Periods*

Crop/Group of Crops	On annual index numbers			
	On 3 yearly moving averages			
	With 1949-50 to 1951-52 = 100 (Per cent)	With 1949-50 to 1951-52 = 100 (Per cent)	With 1949-50 to 1951-52 = 100 (Per cent)	With 1952-53 to 1954-55 = 100 (Per cent)
1	2	3	4	5
Rice . . . . .	4.23	3.90	4.21	3.64
Jowar . . . . .	2.98	2.85	2.98	2.40
Bajra . . . . .	2.45	2.28	2.64	2.03
Maize . . . . .	4.96	4.73	4.97	3.72
Ragi . . . . .	3.79	2.75	3.30	2.70
Wheat . . . . .	5.46	5.16	5.25	4.21
Barley . . . . .	(-)-0.29	(-)-0.26	(-)-0.26	(-)-0.21
CEREALS . . . . .	3.97	3.69	3.93	3.29
Gram . . . . .	3.70	3.19	3.34	2.52
PULSES . . . . .	2.01	1.75	1.86	1.59
FOODGRAINS . . . . .	3.71	3.44	3.66	3.08
Groundnut . . . . .	5.26	5.13	5.23	4.98
Sesamum . . . . .	(-)-1.09	(-)-0.52	(-)-0.50	(-)-0.42
Rapeseed & Mustard . . . . .	4.09	4.04	3.90	3.56
OILSEEDS . . . . .	3.85	3.80	3.85	3.58
Cotton . . . . .	5.80	6.65	6.05	4.57
Jute . . . . .	3.71	4.87	4.09	4.25
FIBRES . . . . .	5.57	6.48	5.77	4.85
Tea . . . . .	2.15	2.35	2.25	2.16
Coffee . . . . .	14.31	15.85	14.63	11.21
Sugarcane . . . . .	5.60	6.25	5.57	6.11
Tobacco . . . . .	3.49	2.89	3.15	3.01
NON-FOODGRAINS . . . . .	4.36	4.62	4.39	4.21
ALL CROPS . . . . .	3.87	3.83	3.92	3.49

## APPENDIX 3·3

*All-India Compound Rates of Growth of Agricultural Production, Area under Crops and Agricultural Productivity during 1949-50 to 1964-65*

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	3·37	1·26	2·09
Jowar . . . . .	2·50	0·91	1·58
Bajra . . . . .	2·23	1·01	1·20
Maize . . . . .	3·79	2·63	1·13
Ragi . . . . .	2·80	0·53	2·26
Wheat . . . . .	3·97	2·70	1·24
Barley . . . . .	(—)0·29	(—)0·65	0·37
<b>CEREALS</b> . . . . .	<b>3·16</b>	<b>1·22</b>	<b>1·92</b>
Gram . . . . .	2·66	1·70	0·94
<b>PULSES</b> . . . . .	<b>1·62</b>	<b>1·87</b>	<b>(—)0·24</b>
<b>FOODGRAINS</b> . . . . .	<b>2·98</b>	<b>1·34</b>	<b>1·61</b>
Groundnut . . . . .	4·18	3·81	0·36
Sesamum . . . . .	(—)0·52	0·15	(—)0·68
Rapeseed and Mustard . . . . .	3·16	2·86	0·29
<b>OILSEEDS</b> . . . . .	<b>3·20</b>	<b>2·55</b>	<b>0·64</b>
Cotton . . . . .	4·44	2·42	1·97
Jute . . . . .	3·54	3·01	0·52
<b>FIBRES</b> . . . . .	<b>4·37</b>	<b>2·52</b>	<b>1·81</b>
Tea . . . . .	2·01	0·52	1·48
Coffee . . . . .	8·48	2·18	6·17
Sugarcane . . . . .	4·59	3·26	1·29
Tobacco . . . . .	2·69	1·78	0·90
<b>NON-FOODGRAINS</b> . . . . .	<b>3·61</b>	<b>2·52</b>	<b>1·06</b>
<b>ALL CROPS</b> . . . . .	<b>3·19</b>	<b>1·55</b>	<b>1·60</b>

## APPENDIX 3.4

*All-India Rates of Growth of Agricultural Production during 1949-50  
to 1964-65 Computed by different Methods*

Group of Crops	Growth Rates		
	by fitting linear equation to the annual index numbers of production (Per cent)	by fitting linear equations to the annual index numbers of area ( $y=e+gt$ ) and pro- ductivity ( $y=c+dt$ ) and estimating the average growth rates as $cg+de$ (Refer Para 2.13) (Per cent)	by fitting second degree equation to the annual index numbers of production (Per cent)
1	2	3	4
I. FOODGRAINS . . . . .	3.66	3.69	3.66
II. NON-FOODGRAINS . . . . .	4.39	4.31	4.39
III. ALL CROPS . . . . .	3.92	3.92	3.92

NOTE.—Average : 1949-50 to 1951-52=100.

## APPENDIX 4.1

*All-India Linear Rates of Growth of Agricultural Production, Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55 = 100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	3.64	1.57	1.80
Jowar . . . . .	1.99	0.40	1.57
Bajra . . . . .	1.34	(—)0.20	1.62
Maize . . . . .	3.08	2.48	0.51
Ragi . . . . .	2.34	0.56	1.70
Wheat . . . . .	3.80	2.57	1.00
Barley . . . . .	(—)1.42	(—)1.36	(—)0.11
<b>CEREALS</b> . . . . .	3.05	0.93	1.96
Gram . . . . .	0.85	1.16	(—)0.24
<b>PULSES</b> . . . . .	0.75	1.42	(—)0.57
<b>FOODGRAINS</b> . . . . .	2.75	1.02	1.60
Groundnut . . . . .	5.64	4.40	0.84
Sesamum . . . . .	(—)1.11	(—)0.24	(—)0.93
Rapeseed and Mustard . . . . .	3.86	3.34	0.50
<b>OILSEEDS</b> . . . . .	3.95	2.90	0.87
Cotton . . . . .	3.81	1.27	2.25
Jute . . . . .	5.20	4.01	0.85
<b>FIBRES</b> . . . . .	4.60	1.61	2.51
Tea . . . . .	2.42	0.65	1.67
Coffee . . . . .	11.65	3.03	6.47
Sugarcane . . . . .	7.83	4.93	1.93
Tobacco . . . . .	3.41	1.58	1.56
<b>NON-FOODGRAINS</b> . . . . .	4.79	2.56	1.79
<b>ALL CROPS</b> . . . . .	3.42	1.28	1.91

## APPENDIX 4.2

*All-India Compound Rates of Growth of Agricultural Production, Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	3.18	1.47	1.68
Jowar . . . . .	1.96	0.40	1.56
Bajra . . . . .	1.38	(—)0.20	1.58
Maize . . . . .	2.80	2.28	0.51
Ragi . . . . .	2.22	0.55	1.66
Wheat . . . . .	3.30	2.31	0.97
Barley . . . . .	(—)1.62	(—)1.47	(—)0.16
<b>CEREALS</b> . . . . .	2.74	0.90	1.83
Gram . . . . .	0.83	1.15	(—)0.31
<b>PULSES</b> . . . . .	0.72	1.35	(—)0.62
<b>FOODGRAINS</b> . . . . .	2.50	0.98	1.51
Groundnut . . . . .	4.65	3.78	0.84
Sesamum . . . . .	(—)1.24	(—)0.24	(—)1.00
Rapeseed & Mustard . . . . .	3.28	2.93	0.34
<b>OILSEEDS</b> . . . . .	3.46	2.60	0.83
Cotton . . . . .	3.32	1.22	2.08
Jute . . . . .	4.24	3.38	0.83
<b>FIBRES</b> . . . . .	3.79	1.49	2.27
Tea . . . . .	2.20	0.64	1.56
Coffee . . . . .	7.78	2.71	4.94
Sugarcane . . . . .	5.91	4.03	1.82
Tobacco . . . . .	2.96	1.46	1.48
<b>NON-FOODGRAINS</b> . . . . .	3.99	2.30	1.66
<b>ALL CROPS</b> . . . . .	3.01	1.21	1.77

## APPENDIX 4.3

*F.A.O. Index Numbers of Total Agricultural Production—By Countries*

(Base : 1952-53 to 1956-57=100)

Countries	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64*
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>FAR EAST—</b>												
Burma	102	98	96	97	107	93	107	112	113	113	124	120
Federation of Malaya	95	93	99	105	108	108	110	119	126	132	135	142
Indonesia	92	101	105	101	102	104	107	109	110	107	113	111
Japan	97	86	95	113	110	113	118	117	119	120	130	124
Pakistan	100	98	102	97	103	102	102	108	112	114	113	120
Philippines	93	98	99	101	109	113	114	115	122	125	131	137
Thailand	89	105	86	105	115	94	108	112	130	140	146	155
<b>NEAR EAST—</b>												
Turkey	100	108	86	99	107	108	124	126	130	123	129	142
United Arab Republic	96	92	102	103	107	114	116	122	126	112	136	141
<b>NORTH AMERICA—</b>												
Canada	111	103	79	99	108	92	98	100	108	91	114	126
United States	98	98	99	101	103	99	106	109	110	110	112	118
<b>EUROPE—</b>												
France	91	99	104	103	102	102	104	112	123	117	129	126
Germany, Federal Republic	95	101	101	100	102	105	110	107	121	109	123	127
Italy	93	104	96	105	103	101	116	116	107	116	115	118
United Kingdom	97	98	100	99	106	105	101	110	118	123	130	132
<b>OCEANIA</b>												
Australia	97	97	97	104	105	99	119	119	123	127	133	138
New Zealand	96	95	100	103	105	109	116	120	122	125	128	130

Source : F.A.O. Production Year Book, 1964—Page 32.

\*Preliminary.

## APPENDIX 4.4

## F.A.O. Index Numbers of Food Production, By Countries

(Base: 1952-53 to 1956-57=100)

Countries	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64*
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>FAK EAST—</b>												
Burma . . . . .	102	98	96	97	107	93	109	114	114	114	126	122
Federation of Malaya . . . . .	91	89	101	103	115	113	110	127	143	152	156	167
Indonesia . . . . .	89	102	105	101	103	104	109	111	114	108	116	116
Japan . . . . .	97	85	94	113	110	113	118	118	120	121	132	125
Pakistan . . . . .	97	101	103	95	103	101	101	108	113	113	112	120
Philippines . . . . .	94	98	99	101	108	112	113	113	120	122	128	134
Thailand . . . . .	89	107	84	105	115	91	105	108	124	132	143	133
<b>NEAR EAST—</b>												
Turkey . . . . .	100	110	85	99	107	109	126	126	131	123	129	142
United Arab Republic . . . . .	86	93	103	106	113	115	113	119	124	117	138	146
<b>NORTH AMERICA—</b>												
Canada . . . . .	112	105	78	99	106	91	96	100	106	90	114	127
United States . . . . .	98	97	99	102	104	102	111	111	112	113	113	120
<b>EUROPE—</b>												
France . . . . .	91	100	104	103	102	102	105	112	124	117	129	126
Germany, Federal Republic . . . . .	95	101	101	100	102	105	110	107	121	110	123	128
Italy . . . . .	92	104	96	105	103	102	117	117	108	118	117	119
United Kingdom . . . . .	97	98	100	100	106	105	101	110	118	123	131	133
<b>OCEANIA—</b>												
Australia . . . . .	98	100	99	104	99	95	120	114	124	127	138	142
New Zealand . . . . .	98	96	100	103	103	109	113	115	118	122	123	126

Source: F.A.O. Production Year Book, 1964—Page 31.

\*Preliminary.

## APPENDIX 4·5

*Linear Growth Rates of Agricultural Production and Food Production in different Countries of the World during 1952-53 to 1963-64*

(Average 1952-53 to 1954-55=100)

Countries	Linear Growth Rates	
	Agricultural Production (Per cent)	Food Production (Per cent)
1	2	3
<b>FAR EAST—</b>		
India . . . . .	3·19	2·55
Burma . . . . .	2·34	2·55
Federation of Malaya . . . . .	4·63	7·57
Indonesia . . . . .	1·41	1·91
Japan . . . . .	3·49	3·74
Pakistan . . . . .	1·85	1·84
Philippines . . . . .	3·93	3·54
Thailand . . . . .	6·01	5·44
<b>NEAR EAST—</b>		
Turkey . . . . .	4·06	4·03
United Arab Republic . . . . .	4·06	4·72
<b>NORTH AMERICA—</b>		
Canada . . . . .	1·34	1·25
United States . . . . .	1·75	2·01
<b>EUROPE—</b>		
France . . . . .	3·13	3·11
Germany, Federal Republic . . . . .	2·58	2·65
Italy . . . . .	2·07	2·30
United Kingdom . . . . .	3·33	3·39
<b>OCEANIA—</b>		
Australia . . . . .	4·12	4·21
New Zealand . . . . .	3·58	2·93



## APPENDIX 5.1

*State Linear Rates of Growth of Area, under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## PUNJAB

(Average : 1952-53 to 1954-55 = 100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	12.31	9.21	1.80
Jowar . . . . .	0.36	0.42	0.15
Bajra . . . . .	(—) 2.32	(—) 2.59	0.58
Maize . . . . .	4.43	4.66	(—) 0.15
Wheat . . . . .	6.79	3.92	2.09
Barley . . . . .	(—) 2.60	(—) 2.68	0.13
<b>CEREALS</b> . . . . .	5.48	1.81	3.11
Gram . . . . .	1.35	2.01	(—) 0.66
<b>PULSES</b> . . . . .	1.20	1.26	(—) 0.17
<b>FOODGRAINS</b> . . . . .	4.30	1.63	2.26
<b>OILSEEDS</b> . . . . .	8.34	3.64	3.58
Cotton . . . . .	9.35	5.78	2.89
Sugarcane . . . . .	9.28	5.71	2.26
Potatoes . . . . .	19.61	11.74	3.49
<b>NON-FOODGRAINS</b> . . . . .	9.46	4.90	3.08
<b>ALL CROPS</b> . . . . .	5.56	2.06	2.86

## APPENDIX 5-2

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## GUJARAT

(Average : 1952-53 to 1954-55=100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	5.98	1.13	4.61
Jowar . . . . .	1.28	(—) 1.59	3.21
Bajra . . . . .	(—) 0.37	(—) 4.04	5.96
Wheat . . . . .	3.50	0.15	3.22
<b>CEREALS</b> . . . . .	2.07	(—) 1.46	3.82
<b>PULSES</b> . . . . .	2.62	(—) 0.33	3.11
<b>FOODGRAINS</b> . . . . .	2.09	(—) 2.19	5.34
Groundnut . . . . .	11.04	15.04	(—) 1.11
<b>OILSEEDS</b> . . . . .	8.94	9.56	0.19
Cotton . . . . .	6.48	2.65	3.08
Sugarcane . . . . .	17.86	16.83	0.53
Tobacco . . . . .	8.67	3.32	4.11
<b>NON-FOODGRAINS</b> . . . . .	8.03	5.93	1.64
<b>ALL CROPS</b> . . . . .	5.12	0.46	4.52

## APPENDIX 5.3

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## MADRAS

(Average: 1952-53 to 1954-55=100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	6.04	3.19	2.19
Jowar . . . . .	4.61	0.10	4.46
Bajra . . . . .	3.60	(—) 2.24	7.63
Ragi . . . . .	0.18	(—) 0.66	0.92
<b>CEREALS . . . . .</b>	<b>5.00</b>	<b>0.89</b>	<b>3.84</b>
<b>PULSES . . . . .</b>	<b>(—) 0.92</b>	<b>(—) 0.84</b>	<b>(—) 0.21</b>
<b>FOODGRAINS . . . . .</b>	<b>4.89</b>	<b>0.75</b>	<b>3.92</b>
Groundnut . . . . .	5.49	3.69	1.24
<b>OILSEEDS . . . . .</b>	<b>4.79</b>	<b>2.69</b>	<b>1.64</b>
Cotton . . . . .	5.56	1.11	3.87
Tea . . . . .	3.72	0.28	3.38
Sugarcane . . . . .	10.50	10.56	0.04
Tobacco . . . . .	0.54	(—) 0.01	0.52
Chillies . . . . .	4.55	4.54	0.12
<b>NON-FOODGRAINS . . . . .</b>	<b>4.96</b>	<b>2.45</b>	<b>2.05</b>
<b>ALL CROPS . . . . .</b>	<b>4.91</b>	<b>1.13</b>	<b>3.46</b>

## APPENDIX 5.4

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## MYSORE

(Average : 1952-53 to 1954-55=100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	5.96	1.97	3.33
Jowar . . . . .	2.71	1.78	0.91
Ragi . . . . .	3.61	0.67	2.81
Wheat . . . . .	4.88	0.98	3.46
<b>CEREALS</b> . . . . .	<b>4.21</b>	<b>1.06</b>	<b>2.91</b>
<b>PULSES</b> . . . . .	<b>(—) 0.16</b>	<b>0.13</b>	<b>(—) 0.23</b>
<b>FOODGRAINS</b> . . . . .	<b>3.71</b>	<b>0.91</b>	<b>2.64</b>
Groundnut . . . . .	0.72	0.87	(—) 0.10
<b>OILSEEDS</b> . . . . .	<b>0.68</b>	<b>0.28</b>	<b>0.48</b>
Cotton . . . . .	2.06	0.66	1.23
Coffee . . . . .	8.03	2.97	3.88
Sugarcane . . . . .	14.58	7.60	4.02
Tobacco . . . . .	2.43	(—) 1.25	4.04
<b>NON-FOODGRAINS</b> . . . . .	<b>4.91</b>	<b>0.59</b>	<b>4.03</b>
<b>ALL CROPS</b> . . . . .	<b>4.06</b>	<b>0.83</b>	<b>3.03</b>

## APPENDIX 5.5

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## HIMACHAL PRADESH

(Average : 1952-53 to 1954-55=100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	4.61	0.29	4.18
Maize . . . . .	7.38	0.74	6.18
Ragi . . . . .	(—) 0.29	(—) 1.26	1.13
Wheat . . . . .	3.51	1.41	1.93
Barley . . . . .	0.61	(—) 0.35	0.99
<b>CEREALS</b> . . . . .	<b>4.16</b>	<b>0.66</b>	<b>3.29</b>
<b>PULSES</b> . . . . .	<b>5.21</b>	<b>0.41</b>	<b>4.60</b>
<b>FOODGRAINS</b> . . . . .	<b>4.23</b>	<b>0.63</b>	<b>3.40</b>
Potatoes . . . . .	6.14	4.64	0.87
Ginger . . . . .	(—) 4.60	3.69	(—) 6.06
<b>NON-FOODGRAINS</b> . . . . .	<b>1.63</b>	<b>3.27</b>	<b>(—) 1.30</b>
<b>ALL CROPS</b> . . . . .	<b>3.93</b>	<b>0.73</b>	<b>3.00</b>

## APPENDIX 5·6

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

### BIHAR

(Average : 1952-53 to 1954-55=100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	3·63	0·23	3·36
Maize . . . . .	3·39	1·50	1·70
Wheat . . . . .	2·35	0·98	1·18
Barley . . . . .	0·87	(—) 0·41	1·30
<b>CEREALS</b> . . . . .	<b>3·39</b>	<b>0·41</b>	<b>2·92</b>
Gram . . . . .	(—) 0·29	(—) 0·80	0·57
<b>PULSES</b> . . . . .	<b>2·66</b>	<b>1·64</b>	<b>1·08</b>
<b>FOODGRAINS</b> . . . . .	<b>3·28</b>	<b>0·64</b>	<b>2·55</b>
Linseed . . . . .	1·56	(—) 0·91	3·04
Jute . . . . .	(—) 1·83	2·29	(—) 2·82
Sugarcane . . . . .	0·65	2·20	(—) 1·21
Potatoes . . . . .	6·92	11·20	(—) 1·77
<b>NON-FOODGRAINS</b> . . . . .	<b>2·61</b>	<b>1·84</b>	<b>0·78</b>
<b>ALL CROPS</b> . . . . .	<b>3·21</b>	<b>0·71</b>	<b>2·39</b>

## APPENDIX 5-7

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## MAHARASHTRA

(Average : 1952-53 to 1954-55=100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	3.38	1.75	1.41
Jowar . . . . .	2.95	0.87	1.91
Bajra . . . . .	1.48	(—) 1.12	3.10
Wheat . . . . .	4.17	2.10	1.85
<b>CEREALS</b> . . . . .	2.87	0.57	2.22
Tur . . . . .	(—) 1.51	(—) 0.12	(—) 1.37
<b>PULSES</b> . . . . .	(—) 0.88	(—) 0.66	(—) 0.20
<b>FOODGRAINS</b> . . . . .	2.29	0.33	1.94
Groundnut . . . . .	6.06	1.28	4.18
<b>OILSEEDS</b> . . . . .	5.06	0.69	4.08
Cotton . . . . .	2.45	0.63	1.70
Sugarcane . . . . .	9.83	7.97	1.02
Tobacco . . . . .	(—) 2.43	(—) 3.30	1.21
Chillies . . . . .	9.89	3.71	4.55
<b>Non-FOODGRAINS</b> . . . . .	5.15	0.83	3.65
<b>ALL CROPS</b> . . . . .	3.19	0.44	2.62

## APPENDIX 5 8

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## RAJASTHAN

(Average : 1952-53 to 1954-55=100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	5.56	6.48	(—) 0.50
Jowar . . . . .	(—) 0.59	0.59	(—) 1.10
Bajra . . . . .	4.13	3.73	0.51
Maize . . . . .	5.31	3.84	1.35
Wheat . . . . .	2.24	3.36	(—) 0.85
Barley . . . . .	(—) 2.03	(—) 1.58	(—) 0.55
<b>CEREALS</b> . . . . .	<b>2.29</b>	<b>2.73</b>	<b>(—) 0.29</b>
Gram . . . . .	5.19	6.12	(—) 0.50
<b>PULSES</b> . . . . .	<b>6.35</b>	<b>3.86</b>	<b>1.93</b>
<b>FOODGRAINS</b> . . . . .	<b>2.68</b>	<b>3.03</b>	<b>(—) 0.23</b>
Sesamum . . . . .	(—) 0.33	2.62	(—) 2.59
Rapeseed & Mustard . . . . .	3.00	7.90	(—) 1.05
<b>OILSEEDS</b> . . . . .	<b>2.71</b>	<b>5.75</b>	<b>(—) 1.90</b>
Cotton . . . . .	5.85	2.70	2.74
Sugarcane . . . . .	6.34	7.76	(—) 0.53
<b>NON-FOODGRAINS</b> . . . . .	<b>4.89</b>	<b>5.13</b>	<b>(—) 0.09</b>
<b>ALL CROPS</b> . . . . .	<b>3.08</b>	<b>3.23</b>	<b>(—) 0.08</b>



## APPENDIX 5.9

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ANDHRA PRADESH

(Average : 1952-53 to 1954-55=100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	5.15	3.19	1.56
Jowar . . . . .	1.62	0.18	1.26
Bajra . . . . .	6.74	(—) 0.89	1.88
Ragi . . . . .	2.31	0.63	1.74
<b>CEREALS</b> . . . . .	<b>3.82</b>	<b>0.87</b>	<b>2.74</b>
<b>PULSES</b> . . . . .	<b>(—) 0.26</b>	<b>0.64</b>	<b>(—) 0.83</b>
<b>FOODGRAINS</b> . . . . .	<b>3.65</b>	<b>0.84</b>	<b>2.63</b>
Groundnut . . . . .	(—) 2.00	(—) 3.16	1.58
<b>OILSEEDS</b> . . . . .	<b>(—) 2.02</b>	<b>(—) 2.74</b>	<b>1.00</b>
Cotton . . . . .	0.74	(—) 0.43	1.29
Sugarcane . . . . .	13.21	8.56	2.52
Tobacco . . . . .	3.43	2.51	0.62
Chillies . . . . .	1.38	(—) 1.17	2.92
<b>NON-FOODGRAINS</b> . . . . .	<b>1.83</b>	<b>(—) 1.59</b>	<b>3.93</b>
<b>ALL CROPS</b> . . . . .	<b>3.06</b>	<b>0.27</b>	<b>2.72</b>

## APPENDIX 5.10

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## MADHYA PRADESH

(Average : 1952-53 to 1954-55=100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	2.34	1.28	0.93
Jowar . . . . .	2.81	(—) 0.24	3.22
Maize . . . . .	4.01	1.75	1.94
Wheat . . . . .	3.61	4.50	(—) 0.53
<b>CEREALS</b> . . . . .	2.67	1.31	1.21
Gram . . . . .	1.91	0.91	0.95
<b>PULSES</b> . . . . .	1.37	1.10	0.26
<b>FOODGRAINS</b> . . . . .	2.58	1.28	1.16
Groundnut . . . . .	11.12	8.15	1.84
Linseed . . . . .	6.47	3.17	2.51
<b>OILSEEDS</b> . . . . .	8.33	3.18	4.00
Cotton . . . . .	(—) 0.98	(—) 0.87	(—) 0.17
Sugarcane . . . . .	7.96	9.91	(—) 1.03
<b>NON-FOODGRAINS</b> . . . . .	4.50	1.67	2.44
<b>ALL CROPS</b> . . . . .	2.79	1.35	1.30

## APPENDIX 5.11

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ORISSA

(Average : 1952-53 to 1954-55 = 100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	2.88	1.14	1.60
CEREALS . . . . .	2.88	1.06	1.69
PULSES . . . . .	(—) 1.14	(—) 0.43	(—) 0.66
FOODGRAINS . . . . .	2.60	0.79	1.75
OILSEEDS . . . . .	2.53	0.74	1.79
Jute . . . . .	4.05	3.50	0.50
NON-FOODGRAINS . . . . .	3.40	1.65	1.54
ALL CROPS . . . . .	2.72	0.84	1.78

## APPENDIX 5.12

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## KERALA

(Average : 1952-53 to 1954-55 = 100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	4.42	0.53	3.70
CEREALS . . . . .	4.40	0.52	3.66
FOODGRAINS . . . . .	4.37	0.51	3.74
Coconut . . . . .	0.98	1.82	(—) 0.72
OILSEEDS . . . . .	0.86	1.55	(—) 0.61
Tea . . . . .	3.51	(—) 0.39	4.05
Coffee . . . . .	5.20	4.81	0.20
Rubber . . . . .	5.38	12.65	(—) 3.29
NON-FOODGRAINS . . . . .	1.83	2.06	(—) 0.20
ALL CROPS . . . . .	2.52	1.38	1.00

## APPENDIX 5.13

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## WEST BENGAL

(Average : 1952-53 to 1954-55 = 100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	1.42	0.13	1.29
CEREALS . . . . .	1.33	0.23	1.08
PULSES . . . . .	(—) 0.42	0.19	(—) 0.58
FOODGRAINS . . . . .	1.16	0.26	0.90
OILSEEDS . . . . .	(—) 1.40	2.50	(—) 3.03
Jute . . . . .	7.21	6.00	0.92
Tea . . . . .	0.25	0.56	(—) 0.28
Sugarcane . . . . .	6.73	7.32	(—) 0.31
Tobacco . . . . .	0.36	(—) 0.50	0.89
Potatoes . . . . .	8.00	5.68	1.66
NON-FOODGRAINS . . . . .	4.23	4.29	0.09
ALL CROPS . . . . .	2.07	0.60	1.41

## APPENDIX 5-14

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## UTTAR PRADESH

(Average : 1952-53 to 1954-55=100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	5.08	1.97	2.61
Jowar . . . . .	(—) 1.31	(—) 0.78	(—) 0.58
Bajra . . . . .	(—) 1.12	(—) 0.94	(—) 0.27
Maize . . . . .	0.97	1.40	(—) 0.49
Wheat . . . . .	1.65	0.78	0.80
Barley . . . . .	(—) 1.84	(—) 1.91	0.03
<b>CEREALS</b> . . . . .	1.49	0.36	1.10
Gram . . . . .	(—) 0.04	(—) 0.08	0.05
Tur . . . . .	(—) 2.31	0.10	(—) 2.48
<b>PULSES</b> . . . . .	(—) 1.01	0.51	(—) 1.43
<b>FOODGRAINS</b> . . . . .	0.91	0.40	0.49
Rapeseed & Mustard . . . . .	4.87	(—) 0.36	5.31
<b>OILSEEDS</b> . . . . .	5.02	1.53	3.11
Jute . . . . .	12.13	6.18	3.29
Sugarcane . . . . .	4.13	3.72	0.28
Tobacco . . . . .	(—) 2.29	(—) 2.34	0.12
Potatoes . . . . .	2.54	3.44	(—) 0.70
<b>NON-FOODGRAINS</b> . . . . .	4.28	2.19	1.72
<b>ALL CROPS</b> . . . . .	1.82	0.74	1.01

## APPENDIX 5-15

*State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ASSAM

(Average : 1952-53 to 1954-55=100)

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	0.78	1.32	(-) 0.47
CEREALS . . . . .	0.79	1.36	(-) 0.49
PULSES . . . . .	1.42	1.26	0.14
FOODGRAINS . . . . .	0.80	1.36	(-) 0.48
Rapeseed & Mustard . . . . .	(-) 0.60	0.49	(-) 1.05
OILSEEDS . . . . .	(-) 0.20	0.74	(-) 0.89
Jute . . . . .	0.10	1.20	(-) 1.00
Tea . . . . .	1.88	0.47	1.35
Sugarcane . . . . .	3.18	1.23	1.76
Tobacco . . . . .	0.74	1.31	(-) 0.50
Potatoes . . . . .	0.63	3.34	(-) 1.96
NON-FOODGRAINS . . . . .	1.62	1.21	0.35
ALL CROPS . . . . .	1.25	1.32	(-) 0.07

## APPENDIX 5.16

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## PUNJAB

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	8.68	6.82	1.74
Jowar . . . . .	0.98	0.46	0.51
Bajra . . . . .	(—) 2.16	(—) 2.95	0.82
Maize . . . . .	3.83	3.91	(—) 0.08
Wheat . . . . .	5.38	3.34	1.98
Barley . . . . .	(—) 3.11	(—) 3.09	(—) 0.02
<b>CEREALS</b> . . . . .	4.52	1.67	2.80
Gram . . . . .	1.26	2.11	(—) 0.83
<b>PULSES</b> . . . . .	1.11	1.41	(—) 0.29
<b>FOODGRAINS</b> . . . . .	3.66	1.53	2.10
<b>OILSEEDS</b> . . . . .	6.13	3.27	2.77
Cotton . . . . .	7.06	4.68	2.28
Sugarcane . . . . .	6.72	4.61	2.01
Potatoes . . . . .	11.61	8.33	3.03
<b>NON-FOODGRAINS</b> . . . . .	7.04	4.11	2.81
<b>ALL CROPS</b> . . . . .	4.56	1.90	2.61

## APPENDIX 5-17

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## GUJARAT

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	5.59	1.10	4.43
Jowar . . . . .	1.06	(—)1.68	2.78
Bajra . . . . .	(—)0.52	(—)5.14	4.88
Wheat . . . . .	3.12	0.19	2.93
<b>CEREALS</b> . . . . .	2.03	(—)1.53	3.62
<b>PULSES</b> . . . . .	2.88	(—)0.07	2.94
<b>FOODGRAINS</b> . . . . .	2.66	(—)2.45	4.64
Groundnut . . . . .	9.01	10.08	(—)0.97
<b>OILSEEDS</b> . . . . .	7.64	7.17	0.44
Cotton . . . . .	5.42	2.45	2.90
Sugarcane . . . . .	10.57	9.97	0.53
Tobacco . . . . .	6.51	2.82	3.59
<b>NON-FOODGRAINS</b> . . . . .	6.62	4.82	1.71
<b>ALL CROPS</b> . . . . .	4.55	0.45	4.09



## APPENDIX 5-18

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## MADRAS

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	4.89	2.84	1.99
Jowar . . . . .	4.20	0.10	4.08
Bajra . . . . .	3.32	(- )2.53	6.00
Ragi . . . . .	0.34	(- )0.68	1.03
<b>CEREALS</b> . . . . .	4.25	0.89	3.33
<b>PULSES</b> . . . . .	(- )0.88	(- )0.85	(- )0.19
<b>FOODGRAINS</b> . . . . .	4.17	0.75	3.39
Groundnut . . . . .	4.55	3.29	1.22
<b>OILSEEDS</b> . . . . .	4.07	2.47	1.56
Cotton . . . . .	4.56	1.14	3.38
Tea . . . . .	3.21	0.28	2.92
Sugarcane . . . . .	7.68	7.63	0.04
Tobacco . . . . .	0.70	0.26	0.44
Chillies . . . . .	4.10	3.96	0.12
<b>NON-FOODGRAINS</b> . . . . .	4.17	2.24	1.90
<b>ALL CROPS</b> . . . . .	4.17	1.10	3.04

## APPENDIX 5·19

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## MYSORE

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	4·77	1·84	2·88
Jowar . . . . .	2·67	1·65	1·01
Ragi . . . . .	3·45	0·66	2·77
Wheat . . . . .	4·07	0·93	3·11
<b>CEREALS</b> . . . . .	3·66	1·02	2·62
<b>PULSES</b> . . . . .	0·03	0·13	(—)0·11
<b>FOODGRAINS</b> . . . . .	3·31	0·87	2·42
Groundnut . . . . .	0·72	0·85	(—)0·13
<b>OILSEEDS</b> . . . . .	0·68	0·28	0·41
Cotton . . . . .	1·94	0·72	1·21
Coffee . . . . .	6·24	2·67	3·48
Sugarcane . . . . .	9·50	5·81	3·49
Tobacco . . . . .	2·34	(—)1·28	3·62
<b>NON-FOODGRAINS</b> . . . . .	4·08	0·59	3·46
<b>ALL CROPS</b> . . . . .	3·54	0·81	2·71

## APPENDIX 5.20

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## HIMACHAL PRADESH

Crop/Group of Crops	Production (Per cent)	Area (Per c. nt)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	3.71	0.29	3.41
Maize . . . . .	5.62	0.72	4.87
Ragi . . . . .	(-)-0.18	(-)-1.35	1.19
Wheat . . . . .	3.29	1.34	1.93
Barley . . . . .	0.61	(-)-0.35	0.97
<b>CEREALS</b> . . . . .	<b>3.57</b>	<b>0.64</b>	<b>2.91</b>
<b>PULSES</b> . . . . .	<b>4.35</b>	<b>0.47</b>	<b>3.86</b>
<b>FOODGRAINS</b> . . . . .	<b>3.63</b>	<b>0.62</b>	<b>3.00</b>
Potatoes . . . . .	4.81	3.94	0.84
Ginger . . . . .	(-)-5.85	3.16	(-)-8.73
<b>NON-FOODGRAINS</b> . . . . .	<b>1.50</b>	<b>2.87</b>	<b>(-)-1.34</b>
<b>ALL CROPS</b> . . . . .	<b>3.39</b>	<b>0.71</b>	<b>2.67</b>

## APPENDIX 5·21

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## BIHAR

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	3·32	0·23	3·08
Maize . . . . .	3·17	1·48	1·67
Wheat . . . . .	2·52	0·98	1·52
Barley . . . . .	0·91	(—)0·41	1·32
<b>CEREALS</b> . . . . .	<b>3·11</b>	<b>0·41</b>	<b>2·69</b>
Gram . . . . .	(—)0·13	(—)0·84	0·71
<b>PULSES</b> . . . . .	<b>2·89</b>	<b>1·64</b>	<b>1·23</b>
<b>FOODGRAINS</b> . . . . .	<b>3·05</b>	<b>0·64</b>	<b>2·39</b>
Linseed . . . . .	2·35	(—)0·67	3·05
Jute . . . . .	(—)0·91	2·17	(—)3·02
Sugarcane . . . . .	0·69	1·92	(—)1·21
Potatoes . . . . .	5·96	7·81	(—)1·72
<b>NON-FOODGRAINS</b> . . . . .	<b>2·49</b>	<b>1·75</b>	<b>0·74</b>
<b>ALL CROPS</b> . . . . .	<b>2·97</b>	<b>0·71</b>	<b>2·25</b>

## APPENDIX 5.22

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	2.97	1.63	1.32
Jowar . . . . .	2.76	0.84	1.90
Bajra . . . . .	1.87	(-)-1.18	3.09
Wheat . . . . .	3.80	1.94	1.83
<b>CEREALS</b> . . . . .	2.68	0.55	2.12
Tur . . . . .	(-)-1.62	(-)-0.12	(-)-1.50
<b>PULSES</b> . . . . .	(-)-0.83	(-)-0.67	(-)-0.16
<b>FOODGRAINS</b> . . . . .	2.20	0.32	1.87
Groundnut . . . . .	5.31	1.26	4.00
<b>OILSEEDS</b> . . . . .	4.55	0.69	3.82
Cotton . . . . .	2.24	0.63	1.59
Sugarcane . . . . .	7.06	6.02	0.98
Tobacco . . . . .	(-)-2.86	(-)-4.03	1.21
Chillies . . . . .	7.24	3.20	3.91
<b>NON-FOODGRAINS</b> . . . . .	4.38	0.81	3.24
<b>ALL CROPS</b> . . . . .	2.93	0.44	2.45

## APPENDIX 5-23

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## RAJASTHAN

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	5.17	5.15	0.02
Jowar . . . . .	(- )0.41	0.59	(- )1.07
Bajra . . . . .	4.08	3.26	0.79
Maize . . . . .	5.21	3.36	1.79
Wheat . . . . .	2.01	2.91	(- )0.87
Barley . . . . .	(- )2.24	(- )1.72	(- )0.52
<b>CEREALS</b> . . . . .	2.14	2.45	(- )0.30
Gr m . . . . .	4.52	5.08	(- )0.54
<b>PULSES</b> . . . . .	5.14	3.38	1.70
<b>FOODGRAINS</b> . . . . .	2.42	2.68	(- )0.25
Sesamum . . . . .	(- )1.07	2.53	(- )3.51
Rapeseed & Mustard . . . . .	3.37	6.56	(- )2.08
<b>OILSEEDS</b> . . . . .	2.34	4.79	(- )2.35
Cotton . . . . .	5.15	2.43	2.66
Sugarcane . . . . .	4.88	5.63	(- )0.71
<b>NON-FOODGRAINS</b> . . . . .	4.08	4.36	(- )0.27
<b>ALL CROPS</b> . . . . .	2.74	2.85	(- )0.11

## APPENDIX 5-24

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ANDHRA PRADESH

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	4.32	2.80	1.48
Jowar . . . . .	1.54	0.18	1.24
Bajra . . . . .	0.80	(—)0.92	1.74
Ragi . . . . .	2.08	0.62	1.59
<b>CEREALS</b> . . . . .	<b>3.34</b>	<b>0.84</b>	<b>2.48</b>
<b>PULSES</b> . . . . .	<b>(—)0.24</b>	<b>0.63</b>	<b>(—)0.87</b>
<b>FOODGRAINS</b> . . . . .	<b>3.21</b>	<b>0.81</b>	<b>2.40</b>
Groundnut . . . . .	(—)2.13	(—)3.54	1.46
<b>OILSEEDS</b> . . . . .	<b>(—)2.16</b>	<b>(—)3.06</b>	<b>0.93</b>
Cotton . . . . .	0.72	(—)0.50	1.23
Sugarcane . . . . .	8.69	6.28	2.26
Tobacco . . . . .	2.79	2.15	0.62
Chillies . . . . .	1.23	(—)1.34	2.60
<b>NON-FOODGRAINS</b> . . . . .	<b>1.60</b>	<b>(—)1.71</b>	<b>3.37</b>
<b>ALL CROPS</b> . . . . .	<b>2.71</b>	<b>0.26</b>	<b>2.45</b>

## APPENDIX 5.25

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## MADHYA PRADESH

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	2.01	1.20	0.80
Jowar . . . . .	2.59	(- )0.22	2.82
Maize . . . . .	3.40	1.63	1.74
Wheat . . . . .	3.16	3.74	(- )0.56
CEREALS . . . . .	2.39	1.24	1.13
Gram . . . . .	1.83	0.85	0.97
PULSES . . . . .	1.32	1.05	0.26
FOODGRAINS . . . . .	2.32	1.22	1.09
Groundnut . . . . .	8.32	6.41	1.79
Linseed . . . . .	5.12	2.78	2.28
OILSEEDS . . . . .	6.56	2.78	3.67
Cotton . . . . .	(- )1.39	(- )0.93	(- )0.46
Sugarcane . . . . .	5.66	6.75	(- )1.01
NON-FOODGRAINS . . . . .	3.81	1.54	2.24
ALL CROPS . . . . .	2.49	1.28	1.21



## APPENDIX 5-26

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ORISSA

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	2.63	1.08	1.52
CEREALS . . . . .	2.62	1.01	1.59
PULSES . . . . .	(—)1.22	(—)0.51	(—)0.71
FOODGRAINS . . . . .	2.39	0.75	1.64
OILSEEDS . . . . .	2.24	0.67	1.56
Jute . . . . .	3.71	3.22	0.48
NON-FOODGRAINS . . . . .	2.95	1.49	1.45
ALL CROPS . . . . .	2.48	0.81	1.06

## APPENDIX 5-27

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## KERALA

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	3.72	0.52	3.18
CEREALS . . . . .	3.70	0.52	3.15
FOODGRAINS . . . . .	3.68	0.50	3.22
Coconut . . . . .	0.94	1.69	(—)0.74
OILSEEDS . . . . .	0.83	1.46	(—)0.62
Tea . . . . .	3.06	(—)0.40	3.47
Coffee . . . . .	4.28	4.06	0.20
Rubber . . . . .	4.35	8.64	(—)3.94
NON-FOODGRAINS . . . . .	1.70	1.90	(—)0.20
ALL CROPS . . . . .	2.27	1.30	0.96

## APPENDIX 5.28

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## WEST BENGAL

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	1.38	0.13	1.24
CEREALS . . . . .	1.30	0.23	1.06
PULSES . . . . .	(—)0.33	0.25	(—)0.58
FOODGRAINS . . . . .	1.14	0.26	0.88
OILSEEDS . . . . .	(—)1.36	2.23	(—)3.50
Jute . . . . .	5.81	4.78	0.98
Tea . . . . .	0.39	0.52	(—)0.16
Sugarcane . . . . .	5.45	5.63	(—)0.17
Tobacco . . . . .	0.36	(—)0.53	0.89
Potatoes . . . . .	6.27	4.58	1.61
NON-FOODGRAINS . . . . .	3.77	3.61	0.15
ALL-CROPS . . . . .	1.94	0.59	1.34

## APPENDIX 5-29

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## UTTAR PRADESH

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	4.21	1.81	2.36
Jowar . . . . .	(—)1.46	(—)0.81	(—)0.66
Bajra . . . . .	(—)1.38	(—)0.99	(—)0.40
Maize . . . . .	0.91	1.37	(—)0.46
Wheat . . . . .	1.44	0.76	0.67
Barley . . . . .	(—)2.15	(—)2.11	(—)0.04
<b>CEREALS</b> . . . . .	1.40	0.36	1.04
Gram . . . . .	(—)0.09	(—)0.08	(—)0.01
Tur . . . . .	(—)3.00	0.10	(—)3.12
<b>PULSES</b> . . . . .	(—)1.12	0.50	(—)1.70
<b>FOODGRAINS</b> . . . . .	0.85	0.40	0.45
Rapeseed & Mustard . . . . .	4.16	(—)0.36	4.53
<b>OILSEEDS</b> . . . . .	4.38	1.44	2.90
Jute . . . . .	7.74	4.73	2.95
Sugarcane . . . . .	3.46	3.17	0.28
Tobacco . . . . .	(—)2.45	(—)2.54	0.09
Potatoes . . . . .	1.97	3.03	(—)1.02
<b>NON-FOODGRAINS</b> . . . . .	3.61	1.98	1.59
<b>ALL CROPS</b> . . . . .	1.66	0.72	0.94

## APPENDIX 5-30

*State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ASSAM

Crop/Group of Crops	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
Rice . . . . .	0.74	1.25	(—)0.51
CEREALS . . . . .	0.75	1.29	(—)0.53
PULSES . . . . .	1.32	1.19	0.13
FOODGRAINS . . . . .	0.76	1.28	(—)0.52
Rapeseed & Mustard . . . . .	(—)0.55	0.48	(—)1.02
OILSEEDS . . . . .	(—)0.16	0.71	(—)0.86
Jute . . . . .	0.04	1.14	(—)1.09
Tea . . . . .	1.72	0.46	1.26
Sugarcane . . . . .	2.80	1.18	1.60
Tobacco . . . . .	0.72	1.24	(—)0.51
Potatoes . . . . .	0.61	2.94	(—)2.26
NON-FOODGRAINS . . . . .	1.49	1.15	0.33
ALL CROPS . . . . .	1.17	1.25	(—)0.08

## APPENDIX 5.31

*All-India and State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ALL CROPS

(Average 1952-53 to 1954-55=100)

State	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
1. Punjab . . . . .	5.56	2.06	2.86
2. Gujarat . . . . .	5.12	0.46	4.52
3. Madras . . . . .	4.91	1.13	3.46
4. Mysore . . . . .	4.06	0.83	3.03
5. Himachal Pradesh . . . . .	3.93	0.73	3.00
ALL-INDIA . . . . .	3.42	1.28	1.91
6. Bihar . . . . .	3.21	0.71	2.39
7. Maharashtra . . . . .	3.19	0.44	2.62
8. Rajasthan . . . . .	3.08	3.23	(—)0.08
9. Andhra Pradesh . . . . .	3.06	0.27	2.72
10. Madhya Pradesh . . . . .	2.79	1.35	1.30
11. Orissa . . . . .	2.72	0.84	1.78
12. Kerala . . . . .	2.52	1.38	1.00
13. West Bengal . . . . .	2.07	0.60	1.41
14. Uttar Pradesh . . . . .	1.82	0.74	1.01
15. Assam . . . . .	1.25	1.32	(—)0.07

## APPENDIX 5.32

*All-India and State Linear Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ALL CROPS

State	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
1. Punjab . . . . .	4.56	1.90	2.61
2. Gujarat . . . . .	4.55	0.45	4.09
3. Madras . . . . .	4.17	1.10	3.04
4. Mysore . . . . .	3.54	0.81	2.71
5. Himachal Pradesh . . . . .	3.39	0.71	2.67
6. Bihar . . . . .	2.97	0.71	2.25
7. Maharashtra . . . . .	2.93	0.44	2.45
8. Rajasthan . . . . .	2.74	2.85	(—)0.11
9. Andhra Pradesh . . . . .	2.71	0.26	2.45
10. Madhya Pradesh . . . . .	2.49	1.28	1.21
11. Orissa . . . . .	2.48	0.81	1.66
12. Kerala . . . . .	2.27	1.30	0.96
13. West Bengal . . . . .	1.94	0.59	1.34
14. Uttar Pradesh . . . . .	1.66	0.72	0.94
15. Assam . . . . .	1.17	1.25	(—)0.08
ALL-INDIA . . . . .	3.01	1.21	1.77

## APPENDIX 5-33

*All-India and State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## FOODGRAINS

(Average : 1952-53 to 1954-55 = 100)

State	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
1. Punjab	4.30	1.63	2.26
2. Gujarat	2.09	(-)2.19	5.34
3. Madras	4.89	0.75	3.92
4. Mysore	3.71	0.91	2.64
5. Himachal Pradesh	4.23	0.63	3.40
ALL-INDIA			
	2.75	1.02	1.60
6. Bihar	3.28	0.64	2.55
7. Maharashtra	2.29	0.33	1.94
8. Rajasthan	2.68	3.03	(-)0.23
9. Andhra Pradesh	3.65	0.84	2.63
10. Madhya Pradesh	2.58	1.28	1.16
11. Orissa	2.60	0.79	1.75
12. Kerala	4.37	0.51	3.74
13. West Bengal	1.16	0.26	0.90
14. Uttar Pradesh	0.91	0.40	0.49
15. Assam	0.80	1.36	(-)0.48

## APPENDIX 5-34

*All-India and State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## FOODGRAINS

State	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
1	2	3	4
1. Punjab	3.66	1.53	2.10
2. Gujarat	2.06	(-)2.45	4.64
3. Madras	4.17	0.75	3.39
4. Mysore	3.31	0.87	2.42
5. Himachal Pradesh	3.63	0.62	3.00
6. Bihar	3.05	0.64	2.39
7. Maharashtra	2.20	0.32	1.87
8. Rajasthan	2.42	2.68	(-)0.25
9. Andhra Pradesh	3.21	0.81	2.40
10. Madhya Pradesh	2.32	1.22	1.09
11. Orissa	2.39	0.75	1.64
12. Kerala	3.68	0.50	3.22
13. West Bengal	1.14	0.26	0.88
14. Uttar Pradesh	0.85	0.40	0.45
15. Assam	0.76	1.28	(-)0.52
ALL-INDIA			
	2.50	0.98	1.51

## APPENDIX 5-35

*All-India and State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## NON-FOODGRAINS

(Average : 1952-53 to 1964-65—100)

State	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
(1)	(2)	(3)	(4)
1. Punjab	9.46	4.90	3.08
2. Gujarat	8.03	5.93	1.64
3. Madras	4.96	2.45	2.05
4. Mysore	4.91	0.59	4.03
5. Himachal Pradesh	1.63	3.27	(- )1.30
ALL-INDIA	4.79	2.56	1.79
6. Bihar	2.61	1.84	0.78
7. Maharashtra	5.15	0.83	3.65
8. Rajasthan	4.89	5.13	(- )0.09
9. Andhra Pradesh	1.83	(- )1.59	3.93
10. Madhya Pradesh	4.50	1.67	2.44
11. Orissa	8.40	1.65	1.54
12. Kerala	1.83	2.06	(- )0.20
13. West Bengal	4.23	4.29	0.09
14. Uttar Pradesh	4.28	2.19	1.72
15. Assam	1.62	1.21	0.35

## APPENDIX 5-36

*All-India and State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## NON-FOODGRAINS

State	Production (Per cent)	Area (Per cent)	Productivity (Per cent)
(1)	(2)	(3)	(4)
1. Punjab	7.04	4.11	2.81
2. Gujarat	0.62	4.82	1.71
3. Madras	4.17	2.24	1.90
4. Mysore	4.08	0.59	3.46
5. Himachal Pradesh	1.50	2.87	(- )1.34
6. Bihar	2.49	1.75	0.74
7. Maharashtra	4.38	0.81	3.24
8. Rajasthan	4.08	4.36	(- )0.27
9. Andhra Pradesh	1.60	(- )1.71	3.37
10. Madhya Pradesh	3.81	1.54	2.24
11. Orissa	2.95	1.49	1.45
12. Kerala	1.70	1.00	(- )0.20
13. West Bengal	3.77	3.61	0.15
14. Uttar Pradesh	3.61	1.98	1.59
15. Assam	1.49	1.15	0.33
ALL-INDIA	3.99	2.30	1.66

## APPENDIX 5-37

*All India and State Linear Rates of Growth of Area under Selected Crops during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55=100)

State	Foodgrains							Total Foodgrains
	Rice	Jowar	Bajra	Maize	Wheat	Barley	Gram	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. Punjab . . .	9.21	0.42 (—)	2.50	4.66	3.92 (—)	2.68	2.01	1.63
2. Gujarat . . .	1.13	(—)1.59	(—)4.04	..	0.15	..	(—)1	(—)2.19
3. Madras . . .	3.19	0.10	(—)2.24	..	..	..	..	0.75
4. Mysore . . .	1.97	1.78	..	..	0.98	..	..	0.91
5. Himachal Pradesh	0.29	..	..	0.74	1.41 (—)	0.35	..	0.63
6. Bihar . . .	0.23	..	..	1.50	0.98 (—)	0.41 (—)	0.80	0.64
7. Maharashtra . .	1.75	0.87 (—)	1.12	..	2.10	..	..	0.33
8. Rajasthan . . .	6.48	0.59	3.73	3.84	3.36 (—)	1.58	6.12	3.03
9. Andhra Pradesh	3.19	0.18 (—)	0.89	..	..	..	..	0.84
10. Madhya Pradesh	1.28	(—)0.24	..	1.75	4.50	..	0.91	1.28
11. Orissa . . .	1.14	..	..	..	..	..	..	0.79
12. Kerala . . .	0.53	..	..	..	..	..	..	0.51
13. West Bengal . .	0.13	..	..	..	..	..	..	0.26
14. Uttar Pradesh . .	1.97	(—)0.78	(—)0.94	1.40	0.78 (—)	1.91 (—)	0.08	0.40
15. Assam . . .	1.32	..	..	..	..	..	..	1.36
ALL INDIA . . .	1.57	0.40 (—)	0.20	2.48	2.57 (—)	1.36	1.16	1.02

.. Indicates that the crop is not important in the State and, as such, growth rate has not been computed.



APPENDIX 5.37—*contd.*

*All-India and State Linear Rates of Growth of Area under Selected Crops during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55=100)

State	Non-Foodgrains					Total Non-food-grains	All Crops
	Groundnut	Cotton	Jute	Sugarcane	Tobacco		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. Punjab . . . . .	..	5.78	..	5.71	..	4.90	2.06
2. Gujarat . . . . .	15.04	2.65	..	16.83	3.32	5.93	0.46
3. Madras . . . . .	3.69	1.11	..	10.56	(—) 0.01	2.45	1.13
4. Mysore . . . . .	0.87	0.66	..	7.60	(—) 1.25	0.59	0.83
5. Himachal Pradesh . . . . .	..	..	..	..	..	3.27	0.73
6. Bihar . . . . .	..	..	2.29	2.20	..	1.84	0.71
7. Maharashtra . . . . .	1.28	0.68	..	7.97	(—) 3.30	0.83	0.44
8. Rajasthan . . . . .	..	2.70	..	7.76	..	5.13	3.23
9. Andhra Pradesh . . . . .	(—) 3.16	(—) 0.43	..	8.56	2.51	(—) 1.59	0.27
10. Madhya Pradesh . . . . .	8.15	(—) 0.87	..	9.91	..	1.67	1.35
11. Orissa . . . . .	..	..	3.50	..	..	1.65	0.84
12. Kerala . . . . .	..	..	..	..	..	2.06	1.38
13. West Bengal . . . . .	..	..	6.00	7.32	(—) 0.50	4.29	0.60
14. Uttar Pradesh . . . . .	..	..	6.18	3.72	(—) 2.34	2.19	0.74
15. Assam . . . . .	..	..	1.20	1.23	1.31	1.21	1.32
ALL-INDIA . . . . .	4.40	1.27	4.01	4.93	1.58	2.56	1.28

.. Indicates that the crop is not important in the State and such, growth rate has not been computed.

## APPENDIX 5.38

*All-India and State Compound Rates of Growth of Area under Selected Crops during 1952-53 to 1964-65*

State	Foodgrains							Total Foodgrains
	Rice	Jowar	Bajra	Maize	Wheat	Barley	Gram	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. Punjab . . . . .	6.82	0.46	(-)2.95	3.91	3.34	(-)3.09	2.11	1.53
2. Gujarat . . . . .	1.10	(-)1.68	(-)5.14	..	0.19	..	..	(-)2.45
3. Madras . . . . .	2.84	0.10	(-)2.53	..	..	..	..	0.75
4. Mysore . . . . .	1.84	1.65	..	..	0.93	..	..	0.87
5. Himachal Pradesh . . . . .	0.29	..	..	0.72	1.34	(-)0.35	..	0.62
6. Bihar . . . . .	0.23	..	..	1.48	0.98	(-)0.41	(-)0.84	0.64
7. Maharashtra . . . . .	1.63	0.84	(-)1.18	..	1.94	..	..	0.32
8. Rajasthan . . . . .	5.15	0.59	3.26	3.36	2.91	(-)1.72	5.08	2.68
9. Andhra Pradesh . . . . .	2.80	0.18	(-)0.92	..	..	..	..	0.81
10. Madhya Pradesh . . . . .	1.20	(-)0.22	..	1.63	3.74	..	0.85	1.22
11. Orissa . . . . .	1.08	..	..	..	..	..	..	0.75
12. Kerala . . . . .	0.52	..	..	..	..	..	..	0.50
13. West Bengal . . . . .	0.13	..	..	..	..	..	..	0.26
14. Uttar Pradesh . . . . .	1.81	(-)0.81	(-)0.99	1.37	0.76	(-)2.11	(-)0.08	0.40
15. Assam . . . . .	1.25	..	..	..	..	..	..	1.28
ALL-INDIA . . . . .	1.47	0.40	(-)0.20	2.28	2.31	(-)1.47	1.15	0.98

State	Non-Foodgrains						Total Non-foodgrains	All-Crops
	Ground-nut	Cotton	Jute	Sugarcane	Tobacco	Total Non-foodgrains		
1	2	3	4	5	6	7	8	
1. Punjab . . . . .	..	4.68	..	4.61	..	4.11	1.90	
2. Gujarat . . . . .	10.08	2.45	..	9.97	2.82	4.82	0.45	
3. Madras . . . . .	3.29	1.14	..	7.63	0.26	2.24	1.10	
4. Mysore . . . . .	0.85	0.72	..	5.81	(-)1.28	0.59	0.81	
5. Himachal Pradesh . . . . .	..	..	..	..	..	2.87	0.71	
6. Bihar . . . . .	..	..	2.17	1.92	..	1.75	0.71	
7. Maharashtra . . . . .	1.26	0.63	..	6.02	(-)4.03	0.81	0.44	
8. Rajasthan . . . . .	..	2.43	..	5.63	..	4.36	2.85	
9. Andhra Pradesh . . . . .	(-)3.54	(-)0.50	..	6.28	2.15	(-)1.71	0.26	
10. Madhya Pradesh . . . . .	6.41	(-)0.93	..	6.75	..	1.54	1.28	
11. Orissa . . . . .	..	..	3.22	..	..	1.49	0.81	
12. Kerala . . . . .	..	..	..	..	..	1.90	1.30	
13. West Bengal . . . . .	..	..	4.78	5.63	(-)0.53	3.61	0.59	
14. Uttar Pradesh . . . . .	..	..	4.73	3.17	(-)2.54	1.98	0.72	
15. Assam . . . . .	..	..	1.14	1.18	1.24	1.15	1.25	
ALL-INDIA . . . . .	3.78	1.22	3.38	4.03	1.46	2.30	1.21	

.. Indicates that the crop is not important in the State and, as such, growth rate has not been computed.

## APPENDIX 5.39

*All-India and State Linear Rates of Growth of Agricultural Production of Selected Crops during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55=100)

State	Foodgrains							
	Rice	Jowar	Bajra	Maize	Wheat	Barley	Gram	Food-grains
1	2	3	4	5	6	7	8	9
1. Punjab . . . . .	12.31	0.36	(-)2.32	4.43	6.79	(-)2.60	1.35	4.30
2. Gujarat . . . . .	5.98	1.28	(-)0.37	..	3.59	..	..	2.09
3. Madras . . . . .	6.04	4.61	3.60	..	..	..	..	4.89
4. Mysore . . . . .	5.96	2.71	..	..	4.88	..	..	3.71
5. Himachal Pradesh . . . . .	4.61	..	..	7.38	3.51	0.61	..	4.23
6. Bihar . . . . .	3.63	..	..	3.39	2.35	0.87	(-)0.29	3.28
7. Maharashtra . . . . .	3.38	2.95	1.48	..	4.17	..	..	2.29
8. Rajasthan . . . . .	5.56	(-)0.59	4.13	5.31	2.24	(-)2.03	5.19	2.68
9. Andhra Pradesh . . . . .	5.15	1.62	0.74	..	..	..	..	3.65
10. Madhya Pradesh . . . . .	2.34	2.81	..	4.01	3.61	..	1.91	2.58
11. Orissa . . . . .	2.88	..	..	..	..	..	..	2.60
12. Kerala . . . . .	4.42	..	..	..	..	..	..	4.37
13. West Bengal . . . . .	1.42	..	..	..	..	..	..	1.16
14. Uttar Pradesh . . . . .	5.08	(-)1.31	(-)1.12	0.97	1.65	(-)1.84	(-)0.04	0.91
15. Assam . . . . .	0.78	..	..	..	..	..	..	0.80
ALL-INDIA . . . . .	3.64	1.99	1.34	3.08	3.80	(-)1.42	0.85	2.75

State	Non-Foodgrains						All-Crops
	Ground-nut	Cotton	Jute	Sugar-cane	Tobacco	Total Non-food-grains	
1	2	3	4	5	6	7	8
1. Punjab . . . . .	..	9.35	..	9.28	..	9.46	5.56
2. Gujarat . . . . .	11.04	6.48	..	17.86	8.67	8.03	5.12
3. Madras . . . . .	5.49	5.56	..	10.50	0.54	4.96	4.91
4. Mysore . . . . .	0.72	2.06	..	14.58	2.43	4.91	4.06
5. Himachal Pradesh . . . . .	..	..	..	..	..	1.63	3.93
6. Bihar . . . . .	..	..	(-)1.83	0.65	..	2.61	3.21
7. Maharashtra . . . . .	6.06	2.45	..	9.83	(-)2.43	5.15	3.19
8. Rajasthan . . . . .	..	5.85	..	6.34	..	4.89	3.08
9. Andhra Pradesh . . . . .	(-)2.00	0.74	..	13.21	3.43	1.83	3.06
10. Madhya Pradesh . . . . .	11.12	(-)0.98	..	7.96	..	4.50	2.79
11. Orissa . . . . .	..	..	4.05	..	..	3.40	2.72
12. Kerala . . . . .	..	..	..	..	..	1.83	2.52
13. West Bengal . . . . .	..	..	7.21	6.73	0.36	4.23	2.07
14. Uttar Pradesh . . . . .	..	..	12.13	4.13	(-)2.29	4.28	1.82
15. Assam . . . . .	..	..	0.10	3.18	0.74	1.62	1.25
ALL-INDIA . . . . .	5.64	3.81	5.20	7.83	3.41	4.79	3.42

.. Indicates that the crop is not important in the State and, as such, growth rate has not been computed.

## APPENDIX 5.40

*All-India and State Compound Rates of Growth of Agricultural Production of Selected Crops during 1952-53 to 1964-65*

State	Foodgrains							Total Foodgrains
	Rice	Jowar	Bajra	Maize	Wheat	Barley	Gram	
1	2	3	4	5	6	7	8	9
1. Punjab . . . . .	8.68	0.98	(-)2.16	3.83	5.38	(-)3.11	1.26	3.66
2. Gujarat . . . . .	5.59	1.06	(-)0.52	..	3.12	..	..	2.06
3. Madras . . . . .	4.89	4.20	3.32	..	..	..	..	4.17
4. Mysore . . . . .	4.77	2.67	..	..	4.07	..	..	3.31
5. Himachal Pradesh . . . . .	3.71	..	..	5.62	3.29	0.61	..	3.63
6. Bihar . . . . .	3.32	..	..	3.17	2.52	0.91	(-)0.13	3.05
7. Maharashtra . . . . .	2.97	2.76	1.87	..	3.80	..	..	2.20
8. Rajasthan . . . . .	5.17	(-)0.41	4.08	5.21	2.01	(-)2.24	4.52	2.42
9. Andhra Pradesh . . . . .	4.32	1.54	0.80	..	..	..	..	3.21
10. Madhya Pradesh . . . . .	2.01	2.59	..	3.40	3.16	..	1.83	2.32
11. Orissa . . . . .	2.63	..	..	..	..	..	..	2.39
12. Kerala . . . . .	3.72	..	..	..	..	..	..	3.68
13. West Bengal . . . . .	1.38	..	..	..	..	..	..	1.14
14. Uttar Pradesh . . . . .	4.21	(-)1.46	(-)1.38	0.91	1.44	(-)2.15	(-)0.09	0.85
15. Assam . . . . .	0.74	..	..	..	..	..	..	0.76
ALL-INDIA . . . . .	3.18	1.96	1.38	2.80	3.30	(-)1.62	0.83	2.50

State	Non-Foodgrains						All Crops
	Groundnut	Cotton	Jute	Sugarcane	Tobacco	Total Non-foodgrains	
1	2	3	4	5	6	7	8
1. Punjab . . . . .	..	7.06	..	6.72	..	7.04	4.56
2. Gujarat . . . . .	9.01	5.42	..	10.57	6.51	6.62	4.55
3. Madras . . . . .	4.55	4.56	..	7.68	0.70	4.17	4.17
4. Mysore . . . . .	0.72	1.94	..	9.50	2.34	4.08	3.54
5. Himachal Pradesh . . . . .	..	..	..	..	..	1.50	3.39
6. Bihar . . . . .	..	..	(-)0.91	0.69	..	2.49	2.97
7. Maharashtra . . . . .	5.31	2.24	..	7.06	(-)2.86	4.38	2.93
8. Rajasthan . . . . .	..	5.15	..	4.88	..	4.08	2.74
9. Andhra Pradesh . . . . .	(-)2.13	0.72	..	8.69	2.79	1.60	2.71
10. Madhya Pradesh . . . . .	8.32	(-)1.39	..	5.66	..	3.81	2.49
11. Orissa . . . . .	..	..	3.71	..	..	2.95	2.48
12. Kerala . . . . .	..	..	..	..	..	1.70	2.27
13. West Bengal . . . . .	..	..	5.81	5.45	0.36	3.77	1.94
14. Uttar Pradesh . . . . .	..	..	7.74	3.46	(-)2.45	3.61	1.66
15. Assam . . . . .	..	..	0.04	2.80	0.72	1.49	1.17
ALL-INDIA . . . . .	4.65	3.32	4.24	5.91	2.96	3.99	3.01

.. Indicates that the crop is not important in the State and, as such, growth rate has not been computed.

## APPENDIX 5.41

*All-India and State Linear Rates of Growth of Agricultural Productivity of Selected Crops during 1952-53 to 1964-65*

(Average : 1952-53 to 1954-55=100)

State	Foodgrains							
	Rice	Jowar	Bajra	Maize	Wheat	Barley	Gram	Total Food-grains
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. Punjab . . . . .	1.80	0.15	0.58	(—) 0.15	2.09	0.13	(—) 0.66	2.26
2. Gujarat . . . . .	4.61	3.21	5.96	..	3.22	..	..	5.34
3. Madras . . . . .	2.19	4.46	7.63	..	..	..	..	3.92
4. Mysore . . . . .	3.33	0.91	..	..	3.46	..	..	2.64
5. Himachal Pradesh . . . . .	4.18	..	..	6.18	1.93	0.99	..	3.40
6. Bihar . . . . .	3.36	..	..	1.70	1.18	1.30	0.57	2.55
7. Maharashtra . . . . .	1.41	1.91	3.10	..	1.85	..	..	1.94
8. Rajasthan . . . . .	(—) 0.50	(—) 1.10	0.51	1.35	(—) 0.85	(—) 0.55	(—) 0.50	(—) 0.23
9. Andhra Pradesh . . . . .	1.56	1.26	1.88	..	..	..	..	2.63
10. Madhya Pradesh . . . . .	0.93	3.22	..	1.94	(—) 0.53	..	0.95	1.16
11. Orissa . . . . .	1.60	..	..	..	..	..	..	1.75
12. Kerala . . . . .	3.70	..	..	..	..	..	..	3.74
13. West Bengal . . . . .	1.29	..	..	..	..	..	..	0.90
14. Uttar Pradesh . . . . .	2.61	(—) 0.58	(—) 0.27	(—) 0.49	0.80	0.03	0.05	0.49
15. Assam . . . . .	(—) 0.47	..	..	..	..	..	..	(—) 0.48
ALL-INDIA . . . . .	1.80	1.57	1.62	0.51	1.00	(—) 0.11	(—) 0.24	1.60

State	Non-foodgrains						All crops
	Ground-nut	Cotton	Jute	Sugar-cane	Tobacco	Total Non-food-grains	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. Punjab . . . . .	..	2.89	..	2.26	..	3.08	2.86
2. Gujarat . . . . .	(—) 1.11	3.08	..	0.53	4.11	1.64	4.52
3. Madras . . . . .	1.24	3.87	..	0.04	0.52	2.05	3.46
4. Mysore . . . . .	(—) 0.10	1.23	..	4.02	4.04	4.03	3.03
5. Himachal Pradesh . . . . .	..	..	..	..	..	(—) 1.30	3.00
6. Bihar . . . . .	..	..	(—) 2.82	(—) 1.21	..	0.78	2.39
7. Maharashtra . . . . .	4.18	1.70	..	1.02	1.21	3.65	2.62
8. Rajasthan . . . . .	..	2.74	..	(—) 0.53	..	(—) 0.09	(—) 0.08
9. Andhra Pradesh . . . . .	1.58	1.29	..	2.52	0.62	3.93	2.72
10. Madhya Pradesh . . . . .	1.84	(—) 0.17	..	(—) 1.03	..	2.44	1.30
11. Orissa . . . . .	..	..	0.50	..	..	1.54	1.78
12. Kerala . . . . .	..	..	..	..	..	(—) 0.20	1.00
13. West Bengal . . . . .	..	..	0.92	(—) 0.31	0.89	0.09	1.41
14. Uttar Pradesh . . . . .	..	..	3.29	0.28	0.12	1.72	1.01
15. Assam . . . . .	..	..	(—) 1.00	1.76	(—) 0.50	0.35	(—) 0.07
ALL-INDIA . . . . .	0.84	2.25	0.85	1.93	1.56	1.79	1.91

.. Indicates, that the crop is not important in the State and, as such, growth rate has not been computed.

## APPENDIX 5.42

*All-India and State Compound Rates of Growth of Agriculture Productivity of Selected Crops during 1952-53 to 1964-65.*

State	Foodgrains							Total food-grains
	Rice	Jowar	Bajra	Maize	Wheat	Barley	Gram	
1	2	3	4	5	6	7	8	9
1. Punjab . . . . .	1.74	0.51	0.82(—)	0.08	1.98 (—)	0.02 (—)	0.83	2.10
2. Gujarat . . . . .	4.43	2.78	4.88	..	2.93	..	..	4.64
3. Madras . . . . .	1.99	4.08	6.00	..	..	..	..	3.39
4. Mysore . . . . .	2.88	1.01	..	..	3.11	..	..	2.42
5. Himachal Pradesh	3.41	..	..	4.87	1.93	0.97	..	3.00
6. Bihar . . . . .	3.08	..	..	1.67	1.52	1.32	0.71	2.30
7. Maharashtra . . .	1.32	1.90	3.09	..	1.83	..	..	1.87
8. Rajasthan . . . . .	0.02 (—)	1.07	0.79	1.79(—)	0.87 (—)	0.52 (—)	0.54 (—)	0.25
9. Andhra Pradesh . .	1.48	1.24	1.74	..	..	..	..	2.40
10. Madhya Pradesh	0.80	2.82	..	1.74 (—)	0.56	..	0.97	1.09
11. Orissa . . . . .	1.52	..	..	..	..	..	..	1.64
12. Kerala . . . . .	3.18	..	..	..	..	..	..	3.22
13. West Bengal . . .	1.24	..	..	..	..	..	..	0.88
14. Uttar Pradesh . .	2.36(—)	0.66 (—)	0.40 (—)	0.46 (—)	0.67 (—)	0.04 (—)	0.01 (—)	0.45
15. Assam . . . . .	(—)0.51	..	..	..	..	..	..	(—)0.52
ALL-INDIA . . . . .	1.68	1.56	1.58	0.51	0.97 (—)	0.16 (—)	0.31 (—)	1.51

State	Non-foodgrains						All-Crops
	Ground nut	Cotton	Jute	Sugar-cane	Tobacco	Total non-food-grains	
1	2	3	4	5	6	7	8
1. Punjab . . . . .	..	2.28	..	2.01	..	2.81	2.61
2. Gujarat . . . . .	(—)0.97	2.90	..	0.53	3.59	1.71	4.09
3. Madras . . . . .	1.22	3.38	..	0.04	0.44	1.90	3.04
4. Mysore . . . . .	(—)0.13	1.21	..	3.49	3.62	3.46	2.71
5. Himachal Pradesh	..	..	..	..	..	(—)1.34	2.67
6. Bihar . . . . .	..	..	(—)3.02 (—)	1.21	..	0.74	2.25
7. Maharashtra . . .	4.00	1.59	..	0.98	1.21	3.24	2.45
8. Rajasthan . . . . .	..	2.66	..	(—)0.71	..	(—)0.27 (—)	0.11
9. Andhra Pradesh . .	1.46	1.23	..	2.25	0.62	3.37	2.45
10. Madhya Pradesh	1.79(—)	0.46	..	(—)1.01	..	2.24	1.21
11. Orissa . . . . .	..	..	0.48	..	..	1.45	1.66
12. Kerala . . . . .	..	..	..	..	..	(—)0.20	0.96
13. West Bengal . . .	..	..	0.98(—)	0.17	0.89	0.15	1.34
14. Uttar Pradesh . .	..	..	2.95	0.28	0.09	1.59	0.94
15. Assam . . . . .	..	..	(—)1.09	1.60 (—)	0.51 (—)	0.33 (—)	0.08
ALL-INDIA . . . . .	0.84	2.08	0.83	1.82	1.48	1.66	1.77

.. Indicates that the crop is not important in the State and, as such, growth rate has not been computed.

## APPENDIX 6.1

*Standard Errors of All-India Linear Rates of Growth of Agricultural Production, Area under Crops and Agricultural Productivity during 1949-50 to 1964-65*

Crop/Group of Crops	Agricultural Production		Area under Crops		Agricultural Productivity	
	Growth* rate (Per cent)	Standard Error	Growth* rate (Per cent)	Standard Error	Growth* rate (Per cent)	Standard Error
1	2	3	4	5	6	7
Rice . . . . .	4.21	0.48	1.34	0.10	2.43	0.41
Jowar . . . . .	2.98	0.62	0.97	0.21	1.74	0.49
Bajra . . . . .	2.64	0.87	1.10	0.45	1.27	0.60
Maize . . . . .	4.97	0.48	3.13	0.21	1.22	0.34
Ragi . . . . .	3.30	0.63	0.55	0.22	2.58	0.55
Wheat . . . . .	5.25	0.64	3.18	0.38	1.39	0.45
Barley . . . . .	(—)0.26	0.69	(—)0.63	0.37	0.42	0.45
<b>CEREALS</b> . . . . .	<b>3.93</b>	<b>0.40</b>	<b>1.33</b>	<b>0.13</b>	<b>2.18</b>	<b>0.28</b>
Gram . . . . .	3.34	1.21	1.87	0.58	1.08	0.72
<b>PULSES</b> . . . . .	<b>1.86</b>	<b>0.65</b>	<b>2.12</b>	<b>0.33</b>	<b>(—)0.22</b>	<b>0.37</b>
<b>FOODGRAINS</b> . . . . .	<b>3.66</b>	<b>0.41</b>	<b>1.48</b>	<b>0.16</b>	<b>1.80</b>	<b>0.28</b>
Groundnut . . . . .	5.23	0.59	4.65	0.40	0.32	0.51
Sesamum . . . . .	(—)0.50	0.84	0.15	0.44	(—)0.65	0.53
Rapeseed and Mustard . . . . .	3.90	0.87	3.33	0.43	0.42	0.65
<b>OILSEEDS</b> . . . . .	<b>3.85</b>	<b>0.45</b>	<b>2.93</b>	<b>0.20</b>	<b>0.66</b>	<b>0.40</b>
Cotton . . . . .	6.05	0.87	2.79	0.55	2.28	0.56
Jute . . . . .	4.09	1.00	3.26	0.93	0.53	0.33
<b>FIBRES</b> . . . . .	<b>5.77</b>	<b>0.58</b>	<b>2.91</b>	<b>0.50</b>	<b>2.02</b>	<b>0.37</b>
Tea . . . . .	2.25	0.25	0.53	0.06	1.62	0.24
Coffee . . . . .	14.63	0.98	2.42	0.28	9.42	1.06
Sugarcane . . . . .	5.57	0.69	3.68	0.55	1.36	0.32
Tobacco . . . . .	3.15	0.56	1.99	0.41	0.93	0.34
<b>NON FOODGRAINS</b> . . . . .	<b>4.39</b>	<b>0.30</b>	<b>2.90</b>	<b>0.19</b>	<b>1.11</b>	<b>0.27</b>
<b>ALL CROPS</b> . . . . .	<b>3.92</b>	<b>0.29</b>	<b>1.72</b>	<b>0.13</b>	<b>1.78</b>	<b>0.22</b>

\* (Average: 1949-50 to 1951-52=100)

## APPENDIX 6.2

*Standard Errors of All-India Compound Rates of Growth of Agricultural Production, Area under Crops and Agricultural Productivity during 1949-50 to 1964-65.*

Crop/Group of Crops	Agricultural Production		Area under Crops		Agricultural Productivity	
	Compound Growth Rate (Per cent)	Standard Error	Compound Growth Rate (Per cent)	Standard Error	Compound Growth Rate (Per cent)	Standard Error
1	2	3	4	5	6	7
Rice . . . . .	3.37	0.63	1.26	0.30	2.09	0.61
Jowar . . . . .	2.50	0.72	0.91	0.45	1.58	0.67
Bajra . . . . .	2.23	0.85	1.01	0.63	1.20	0.77
Maize . . . . .	3.79	0.67	2.63	0.45	1.13	0.57
Ragi . . . . .	2.80	0.76	0.53	0.46	2.26	0.71
Wheat . . . . .	3.97	0.70	2.70	0.58	1.24	0.64
Barley . . . . .	(—) 0.29	0.80	(—) 0.65	0.61	0.37	0.65
<b>CEREALS</b> . . . . .	<b>3.16</b>	<b>0.59</b>	<b>1.22</b>	<b>0.36</b>	<b>1.92</b>	<b>0.51</b>
Gram . . . . .	2.66	0.95	1.70	0.72	0.94	0.79
<b>PULSES</b> . . . . .	<b>1.62</b>	<b>0.74</b>	<b>1.87</b>	<b>0.55</b>	<b>(—) 0.24</b>	<b>0.61</b>
<b>FOODGRAINS</b> . . . . .	<b>2.98</b>	<b>0.60</b>	<b>1.34</b>	<b>0.39</b>	<b>1.61</b>	<b>0.50</b>
Groundnut . . . . .	4.18	0.71	3.81	0.62	0.36	0.72
Sesamum . . . . .	(—) 0.52	0.90	0.15	0.65	(—) 0.68	0.73
Rapeseed & Mustard . . . . .	3.16	0.84	2.86	0.60	0.29	0.82
<b>OILSEEDS</b> . . . . .	<b>3.20</b>	<b>0.61</b>	<b>2.55</b>	<b>0.43</b>	<b>0.64</b>	<b>0.62</b>
Cotton . . . . .	4.44	0.83	2.42	0.71	1.97	0.71
Jute . . . . .	3.54	0.96	3.01	0.94	0.52	0.57
<b>FIBRES</b> . . . . .	<b>4.37</b>	<b>0.69</b>	<b>2.52</b>	<b>0.69</b>	<b>1.81</b>	<b>0.58</b>
Tea . . . . .	2.01	0.48	0.52	0.23	1.48	0.47
Coffee . . . . .	8.48	0.75	2.18	0.51	6.17	0.86
Sugarcane . . . . .	4.59	0.78	3.26	0.73	1.29	0.56
Tobacco . . . . .	2.69	0.72	1.78	0.63	0.90	0.58
<b>NON FOODGRAINS</b> . . . . .	<b>3.61</b>	<b>0.48</b>	<b>2.52</b>	<b>0.45</b>	<b>1.03</b>	<b>0.51</b>
<b>ALL CROPS</b> . . . . .	<b>3.19</b>	<b>0.49</b>	<b>1.55</b>	<b>0.36</b>	<b>1.60</b>	<b>0.44</b>



## APPENDIX 6.3

*Standard Errors of All-India Linear Rates of Growth of Agricultural Production, Area under Crops and Agricultural Productivity during 1952-53 to 1964-65.*

Crop/Group of Crops	Agricultural Production		Area under Crops		Agricultural Productivity	
	Growth* Rate (Per cent)	Standard Error	Growth* Rate (Per cent)	Standard Error	Growth* Rate (Per cent)	Standard Error
1	2	3	4	5	6	7
Rice . . .	3.64	0.57	1.57	0.07	1.80	0.48
Jowar . . .	1.99	0.72	0.40	0.21	1.57	0.65
Bajra . . .	1.34	0.88	(—) 0.20	0.28	1.62	0.72
Maize . . .	3.08	0.39	2.48	0.24	0.51	0.31
Ragi . . .	2.34	0.70	0.56	0.30	1.70	0.64
Wheat . . .	3.80	0.73	2.57	0.50	1.00	0.59
Barley . . .	(—) 1.42	0.69	(—) 1.36	0.40	(—) 0.11	0.57
<b>CEREALS</b> . . .	3.05	0.44	0.93	0.11	1.96	0.34
Gram . . .	0.85	1.16	1.16	0.70	(—) 0.24	0.76
<b>PULSES</b> . . .	0.75	0.73	1.42	0.34	(—) 0.57	0.51
<b>FOODGRAINS</b> . . .	2.75	0.44	1.02	0.14	1.60	0.35
Groundnut . . .	5.64	0.77	4.40	0.54	0.84	0.64
Sesamum . . .	(—) 1.11	1.02	(—) 0.24	0.53	(—) 0.93	0.74
Rapeseed & Mustard . . .	3.86	1.19	3.34	0.57	0.50	0.95
<b>OILSEEDS</b> . . .	3.95	0.60	2.90	0.24	0.87	0.54
Cotton . . .	3.81	0.95	1.27	0.46	2.25	0.75
Jute . . .	5.20	1.40	4.01	1.25	0.85	0.43
<b>FIBRES</b> . . .	4.60	0.71	1.61	0.44	2.51	0.48
Tea . . .	2.42	0.35	0.65	0.07	1.67	0.34
Coffee . . .	11.65	1.12	3.03	0.34	6.47	1.19
Sugarcane . . .	7.83	0.85	4.93	0.71	1.93	0.41
Tobacco . . .	3.41	0.65	1.58	0.42	1.56	0.46
<b>NON-FOODGRAINS</b> . . .	4.79	0.36	2.56	0.19	1.79	0.29
<b>ALL CROPS</b> . . .	3.42	0.36	1.28	0.13	1.91	0.29

\*Average : 1952-53 to 1954-55 = 100.

## APPENDIX 6.4

*Standard Errors of All-India Compound Rates of Growth of Agricultural Production, Area under Crops and Agricultural Productivity during 1952-53 to 1964-65*

Crop/Group and Crops	Agricultural Production		Area under Crops		Agricultural Productivity	
	Compound Growth Rate (Per cent)	Standard Error	Compound Growth Rate (Per cent)	Standard Error	Compound Growth Rate (Per cent)	Standard Error
1	2	3	4	5	6	7
Rice . . .	3.18	0.72	1.47	0.26	1.68	0.68
Jowar . . .	1.96	0.86	0.40	0.46	1.56	0.82
Bajra . . .	1.38	0.94	(—) 0.20	0.53	1.58	0.86
Maize . . .	2.80	0.63	2.28	0.48	0.51	0.57
Ragi . . .	2.22	0.84	0.55	0.54	1.86	0.81
Wheat . . .	3.30	0.80	2.31	0.68	0.97	0.77
Barley . . .	(—) 1.62	0.88	(—) 1.47	0.65	(—) 0.16	0.77
CEREALS . . .	2.74	0.64	0.90	0.34	1.83	0.57
Gram . . .	0.83	1.03	1.15	0.81	(—) 0.31	0.88
PULSES . . .	0.72	0.84	1.35	0.57	(—) 0.62	0.74
FOODGRAINS . . .	2.50	0.65	0.98	0.37	1.51	0.58
Groundnut . . .	4.65	0.83	3.78	0.73	0.84	0.80
Sesamum . . .	(—) 1.24	1.09	(—) 0.24	0.76	(—) 1.00	0.89
Rapeseed & Mustard . . .	3.28	1.02	2.93	0.70	0.34	1.00
OILSEEDS . . .	3.46	0.73	2.60	0.48	0.83	0.72
Cotton . . .	3.32	0.95	1.22	0.67	2.08	0.86
Jute . . .	4.24	1.11	3.38	1.06	0.83	0.65
FIBRES . . .	3.79	0.79	1.49	0.65	2.27	0.68
Tea . . .	2.20	0.57	0.64	0.25	1.56	0.57
Coffee . . .	7.78	0.89	2.71	0.57	4.94	0.98
Sugarcane . . .	5.91	0.83	4.03	0.80	1.82	0.63
Tobacco . . .	2.96	0.78	1.46	0.63	1.48	0.67
NON FOODGRAINS . . .	3.99	0.56	2.30	0.44	1.66	0.51
ALL CROPS . . .	3.01	0.57	1.21	0.36	1.77	0.52

## APPENDIX 6.5

*Standard Errors of State Linear Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## PUNJAB

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice	1.31	0.48	0.65
Jowar	3.01	0.63	2.69
Bajra	1.57	0.51	1.45
Maize	1.26	0.40	1.05
Wheat	0.62	0.27	0.57
Barley	0.85	0.71	0.83
CEREALS	0.57	0.16	0.45
Gram	2.00	1.43	1.05
PULSES	1.86	1.29	1.03
FOODGRAINS	0.51	0.43	0.50
OILSEEDS	2.07	1.05	1.48
Cotton	1.10	1.17	0.80
Sugarcane	1.60	0.86	0.81
Potatoes	1.95	1.13	0.83
NON-FOODGRAINS	0.58	0.70	0.64
ALL CROPS	0.46	0.43	0.49

## APPENDIX 6·6

*Standard Errors of State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## GUJARAT

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	2·14	0·47	1·87
Jowar . . . . .	1·37	0·36	1·47
Bajra . . . . .	1·69	0·48	2·05
Wheat . . . . .	1·30	1·53	1·15
CEREALS . . . . .	1·17	0·31	1·35
PULSES . . . . .	1·87	1·91	0·79
FOODGRAINS . . . . .	1·16	0·25	1·20
Groundnut . . . . .	2·21	1·89	1·47
OILSEEDS . . . . .	1·97	1·26	1·39
Cotton . . . . .	1·86	1·14	1·37
Sugarcane . . . . .	2·82	2·67	0·54
Tobacco . . . . .	2·20	1·17	1·66
NON FOODGRAINS . . . . .	1·49	0·91	1·11
ALL CROPS . . . . .	1·19	0·22	1·13

## APPENDIX 6·7

*Standard Errors of State Linear Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## MADRAS

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0·56	0·35	0·29
Jowar . . . . .	1·08	0·28	1·10
Bajra . . . . .	0·64	0·51	0·88
Ragi . . . . .	0·80	0·28	0·71
CEREALS . . . . .	0·54	0·29	0·46
PULSES . . . . .	0·78	0·33	0·67
FOODGRAINS . . . . .	0·54	0·28	0·45
Groundnut . . . . .	0·56	0·61	0·41
OILSEEDS . . . . .	0·49	0·42	0·38
Cotton . . . . .	0·72	0·78	0·41
Tea . . . . .	0·76	0·16	0·81
Sugarcane . . . . .	1·73	1·66	0·18
Tobacco . . . . .	2·10	1·78	0·97
Chillies . . . . .	0·92	0·71	0·31
NON-FOODGRAINS . . . . .	0·52	0·32	0·34
ALL CROPS . . . . .	0·47	0·22	0·38

## APPENDIX 6.8

*Standard Errors of State Linear Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## MYSORE

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.60	0.24	0.58
Jowar . . . . .	0.97	0.25	0.99
Ragi . . . . .	1.47	0.27	1.44
Wheat . . . . .	1.22	0.30	1.21
CEREALS . . . . .	0.48	0.23	0.43
PULSES . . . . .	0.92	0.45	0.77
FOODGRAINS . . . . .	0.50	0.25	0.44
Groundnut . . . . .	2.20	0.57	1.80
OILSEEDS . . . . .	1.95	0.44	1.68
Cotton . . . . .	0.81	0.82	0.67
Coffee . . . . .	1.37	0.37	1.71
Sugarcane . . . . .	0.84	0.50	0.50
Tobacco . . . . .	0.86	0.49	0.93
NON-FOODGRAINS . . . . .	0.75	0.49	0.39
ALL CROPS . . . . .	0.46	0.26	0.38

## APPENDIX 6.9

*Standard Errors of State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## HIMACHAL PRADESH

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	1.27	0.06	1.31
Maize . . . . .	1.22	0.10	1.13
Ragi . . . . .	0.78	0.19	0.74
Wheat . . . . .	1.32	0.17	1.14
Barley . . . . .	0.58	0.53	0.30
<b>CEREALS</b> . . . . .	<b>0.62</b>	<b>0.07</b>	<b>0.58</b>
<b>PULSES</b> . . . . .	<b>1.21</b>	<b>0.62</b>	<b>1.17</b>
<b>FOODGRAINS</b> . . . . .	<b>0.61</b>	<b>0.10</b>	<b>0.56</b>
Potatoes . . . . .	0.83	0.61	0.80
Ginger . . . . .	1.20	0.40	1.17
<b>NON-FOODGRAINS</b> . . . . .	<b>0.49</b>	<b>0.43</b>	<b>0.56</b>
<b>ALL CROPS</b> . . . . .	<b>0.55</b>	<b>0.10</b>	<b>0.50</b>

## APPENDIX 6.10

*Standard Errors of State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## BIHAR

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	1.35	0.21	1.22
Maize . . . . .	1.60	0.59	1.19
Wheat . . . . .	1.63	0.78	1.51
Barley . . . . .	1.30	0.70	1.09
<b>CEREALS</b> . . . . .	<b>1.15</b>	<b>0.22</b>	<b>0.98</b>
Gram . . . . .	1.40	0.57	1.17
<b>PULSES</b> . . . . .	<b>1.57</b>	<b>0.88</b>	<b>1.05</b>
<b>FOODGRAINS</b> . . . . .	<b>1.15</b>	<b>0.33</b>	<b>0.89</b>
Jute . . . . .	2.91	2.04	0.84
Sugarcane . . . . .	1.65	1.03	1.09
Potatoes . . . . .	2.30	0.86	1.69
<b>NON-FOODGRAINS</b> . . . . .	<b>0.92</b>	<b>0.78</b>	<b>0.80</b>
<b>ALL CROPS</b> . . . . .	<b>1.06</b>	<b>0.34</b>	<b>0.78</b>



## APPENDIX 6.11

*Standard Errors of State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65.*

## MAHARASHTRA

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.54	0.08	0.49
Jowar . . . . .	1.14	0.17	1.03
Bajra . . . . .	1.23	0.30	1.13
Wheat . . . . .	1.40	0.75	1.03
<b>CEREALS</b> . . . . .	<b>0.68</b>	<b>0.09</b>	<b>0.61</b>
Tur . . . . .	1.05	0.23	1.00
<b>PULSES</b> . . . . .	<b>0.76</b>	<b>0.24</b>	<b>0.69</b>
<b>FOODGRAINS</b> . . . . .	<b>0.65</b>	<b>0.10</b>	<b>0.57</b>
Groundnut . . . . .	1.03	0.55	0.98
<b>OILSEEDS</b> . . . . .	<b>0.94</b>	<b>0.46</b>	<b>0.84</b>
Cotton . . . . .	1.74	0.39	1.76
Sugarcane . . . . .	0.94	1.10	0.29
Tobacco . . . . .	0.80	0.67	0.91
Chillies . . . . .	0.85	0.34	0.63
<b>NON-FOODGRAINS</b> . . . . .	<b>0.85</b>	<b>0.25</b>	<b>0.98</b>
<b>ALL CROPS</b> . . . . .	<b>0.69</b>	<b>0.11</b>	<b>0.63</b>

## APPENDIX 6-12

*Standard Errors of State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## RAJASTHAN

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	2.68	1.00	2.11
Jowar . . . . .	1.50	0.65	1.26
Bajra . . . . .	2.09	0.54	1.67
Maize . . . . .	1.64	0.36	1.33
Wheat . . . . .	1.58	1.23	0.65
Barley . . . . .	0.87	0.56	0.54
<b>CEREALS</b> . . . . .	<b>0.83</b>	<b>0.31</b>	<b>0.61</b>
Gram . . . . .	4.43	1.99	1.91
<b>PULSES</b> . . . . .	<b>3.23</b>	<b>1.29</b>	<b>1.56</b>
<b>FOODGRAINS</b> . . . . .	<b>0.84</b>	<b>0.46</b>	<b>0.61</b>
Sesamum . . . . .	2.98	1.05	2.35
Rapeseed & Mustard . . . . .	4.86	3.61	1.97
<b>OILSEEDS</b> . . . . .	<b>2.49</b>	<b>1.19</b>	<b>1.36</b>
Cotton . . . . .	2.40	1.18	1.57
Sugarcane . . . . .	2.54	2.18	0.90
<b>NON-FOODGRAINS</b> . . . . .	<b>1.50</b>	<b>0.99</b>	<b>1.10</b>
<b>ALL CROPS</b> . . . . .	<b>0.83</b>	<b>0.47</b>	<b>0.54</b>

## APPENDIX 6-13

*Standard Errors of State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ANDHRA PRADESH

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.41	0.33	0.34
Jowar . . . . .	0.71	0.50	0.60
Bajra . . . . .	0.81	0.32	0.71
Ragi . . . . .	0.98	0.37	1.38
<b>CEREALS</b> . . . . .	<b>0.34</b>	<b>0.18</b>	<b>0.27</b>
<b>PULSES</b> . . . . .	<b>0.51</b>	<b>0.26</b>	<b>0.34</b>
<b>FOODGRAINS</b> . . . . .	<b>0.34</b>	<b>0.17</b>	<b>0.26</b>
Groundnut . . . . .	0.88	0.94	0.64
<b>OILSEEDS</b> . . . . .	<b>0.71</b>	<b>0.68</b>	<b>0.47</b>
Cotton . . . . .	0.85	0.94	0.76
Sugarcane . . . . .	1.17	1.15	0.53
Tobacco . . . . .	1.16	0.88	0.53
Chillies . . . . .	1.57	1.41	0.37
<b>NON-FOODGRAINS</b> . . . . .	<b>0.82</b>	<b>0.71</b>	<b>0.42</b>
<b>ALL CROPS</b> . . . . .	<b>0.30</b>	<b>0.16</b>	<b>0.25</b>

## APPENDIX 6.14

*Standard Errors of State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## MADHYA PRADESH

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	1.25	0.07	1.17
Jowar . . . . .	1.46	0.55	1.40
Maize . . . . .	1.22	0.12	1.10
Wheat . . . . .	1.25	0.88	0.62
<b>CEREALS</b> . . . . .	<b>0.73</b>	<b>0.13</b>	<b>0.63</b>
Gram . . . . .	1.28	0.41	1.01
<b>PULSES</b> . . . . .	<b>0.89</b>	<b>0.24</b>	<b>0.71</b>
<b>FOODGRAINS</b> . . . . .	<b>0.73</b>	<b>0.13</b>	<b>0.60</b>
Groundnut . . . . .	2.22	1.26	1.18
Linseed . . . . .	2.14	1.01	1.28
<b>OILSEEDS</b> . . . . .	<b>1.69</b>	<b>0.53</b>	<b>1.35</b>
Cotton . . . . .	1.81	0.75	2.04
Sugarcane . . . . .	2.39	1.82	0.59
<b>NON-FOODGRAINS</b> . . . . .	<b>1.21</b>	<b>0.41</b>	<b>1.02</b>
<b>ALL CROPS</b> . . . . .	<b>0.72</b>	<b>0.15</b>	<b>0.58</b>

## APPENDIX 6.15

*Standard Errors of State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ORISSA

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.81	0.29	0.75
CEREALS . . . . .	0.80	0.29	0.74
PULSES . . . . .	0.49	0.70	0.46
FOODGRAINS . . . . .	0.75	0.26	0.74
OILSEEDS . . . . .	1.02	0.72	0.87
Jute . . . . .	1.48	1.52	0.80
NON-FOODGRAINS . . . . .	1.02	0.84	0.42
ALL CROPS . . . . .	0.73	0.25	0.68

## APPENDIX 6.16

*Standard Errors of State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## KERALA

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.33	0.13	0.34
CEREALS . . . . .	0.32	0.13	0.34
FOODGRAINS . . . . .	0.33	0.13	0.31
Coconut . . . . .	0.16	0.08	0.13
OILSEEDS . . . . .	0.15	0.07	0.11
Tea . . . . .	0.53	0.14	0.67
Coffee . . . . .	0.29	0.27	0.25
Rubber . . . . .	0.88	0.80	0.87
NON-FOODGRAINS . . . . .	0.09	0.16	0.11
ALL CROPS . . . . .	0.14	0.08	0.11

## APPENDIX 6.17

*Standard Errors of State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## WEST BENGAL

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.92	0.18	0.76
<b>CEREALS</b> . . . . .	0.90	0.19	0.72
<b>PULSES</b> . . . . .	1.06	0.64	0.70
<b>FOODGRAINS</b> . . . . .	0.85	0.21	0.66
<b>OILSEEDS</b> . . . . .	1.15	1.01	1.07
Jute . . . . .	1.94	1.39	0.77
Tea . . . . .	0.76	0.04	0.75
Sugarcane . . . . .	2.12	1.24	1.06
Tobacco . . . . .	0.86	0.31	0.71
Potatoes . . . . .	1.92	0.36	1.35
<b>NON-FOODGRAINS</b> . . . . .	1.16	0.77	0.62
<b>ALL CROPS</b> . . . . .	0.69	0.20	0.50

## APPENDIX 6-18

*Standard Errors of State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## UTTAR PRADESH

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.82	0.10	0.73
Jowar . . . . .	1.38	0.31	1.26
Bajra . . . . .	1.17	0.23	1.13
Maize . . . . .	1.46	0.37	1.41
Wheat . . . . .	1.04	0.33	0.94
Barley . . . . .	0.76	0.31	0.78
<b>CEREALS</b> . . . . .	<b>0.57</b>	<b>0.14</b>	<b>0.52</b>
Gram . . . . .	0.75	0.28	0.76
Tur . . . . .	2.00	0.35	1.89
<b>PULSES</b> . . . . .	<b>0.78</b>	<b>0.17</b>	<b>0.79</b>
<b>FOODGRAINS</b> . . . . .	<b>0.56</b>	<b>0.13</b>	<b>0.53</b>
Rapeseed & Mustard . . . . .	1.58	0.39	1.62
<b>OILSEEDS</b> . . . . .	<b>1.15</b>	<b>0.32</b>	<b>1.03</b>
Jute . . . . .	3.90	3.77	0.75
Sugarcane . . . . .	0.96	0.85	0.53
Tobacco . . . . .	0.95	0.84	0.47
Potatoes . . . . .	1.37	0.34	1.01
<b>NON-FOODGRAINS</b> . . . . .	<b>0.78</b>	<b>0.28</b>	<b>0.60</b>
<b>ALL CROPS</b> . . . . .	<b>0.57</b>	<b>0.10</b>	<b>0.52</b>

## APPENDIX 6-19

*Standard Errors of State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ASSAM

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.32	0.14	0.35
CEREALS . . . . .	0.32	0.14	0.35
PULSES . . . . .	0.78	0.43	0.62
FOODGRAINS . . . . .	0.22	0.13	0.34
Rapeseed & Mustard . . . . .	1.15	0.21	1.05
OILSEEDS . . . . .	1.10	0.20	0.98
Jute . . . . .	1.13	0.41	0.81
Tea . . . . .	0.41	0.06	0.41
Sugarcane . . . . .	0.94	0.31	0.68
Tobacco . . . . .	0.38	0.31	0.27
Potatoes . . . . .	1.19	0.20	0.96
NON-FOODGRAINS . . . . .	0.36	0.15	0.32
ALL CROPS . . . . .	0.26	0.13	0.28



## APPENDIX 6·20

*Standard Errors of State Compound Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## PUNJAB

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0·95	0·59	0·82
Jowar . . . . .	1·53	0·80	1·42
Bajra . . . . .	1·36	0·74	1·26
Maize . . . . .	1·08	0·59	1·04
Wheat . . . . .	0·65	0·53	0·75
Barley . . . . .	1·03	0·88	0·90
<b>CEREALS</b> . . . . .	<b>0·66</b>	<b>0·39</b>	<b>0·64</b>
Gram . . . . .	1·33	1·15	1·07
<b>PULSES</b> . . . . .	<b>1·29</b>	<b>1·09</b>	<b>1·04</b>
<b>FOODGRAINS</b> . . . . .	<b>0·65</b>	<b>0·64</b>	<b>0·69</b>
<b>OILSEEDS</b> . . . . .	<b>1·21</b>	<b>0·98</b>	<b>1·17</b>
Cotton . . . . .	0·95	1·02	0·94
Sugarcane . . . . .	1·03	0·83	0·86
Potatoes . . . . .	1·10	0·91	0·86
<b>NON-FOODGRAINS</b> . . . . .	<b>0·71</b>	<b>0·83</b>	<b>0·78</b>
<b>ALL CROPS</b> . . . . .	<b>0·61</b>	<b>0·65</b>	<b>0·68</b>

## APPENDIX 6-21

*Standard Errors of State Compound Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## GUJARAT

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	1.47	0.68	1.39
Jowar . . . . .	1.23	0.61	1.21
Bajra . . . . .	1.53	0.72	1.42
Wheat . . . . .	1.13	1.14	1.09
<b>CEREALS . . . . .</b>	<b>1.10</b>	<b>0.57</b>	<b>1.15</b>
<b>PULSES . . . . .</b>	<b>1.43</b>	<b>1.37</b>	<b>0.88</b>
<b>FOODGRAINS . . . . .</b>	<b>1.09</b>	<b>0.52</b>	<b>1.04</b>
Groundnut . . . . .	1.43	1.21	1.29
<b>OILSEEDS . . . . .</b>	<b>1.37</b>	<b>1.02</b>	<b>1.23</b>
Cotton . . . . .	1.32	1.01	1.21
Sugarcane . . . . .	1.10	1.14	0.74
Tobacco . . . . .	1.39	0.98	1.30
<b>NON-FOODGRAINS . . . . .</b>	<b>1.18</b>	<b>0.92</b>	<b>1.10</b>
<b>ALL CROPS . . . . .</b>	<b>1.07</b>	<b>0.46</b>	<b>1.05</b>

## APPENDIX 6·22

*Standard Errors of State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## MADRAS

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0·77	0·60	0·53
Jowar . . . . .	1·05	0·53	1·05
Bajra . . . . .	0·81	0·72	0·89
Ragi . . . . .	0·89	0·53	0·83
<b>CEREALS</b> . . . . .	<b>0·78</b>	<b>0·55</b>	<b>0·68</b>
<b>PULSES</b> . . . . .	<b>0·90</b>	<b>0·57</b>	<b>0·82</b>
<b>FOODGRAINS</b> . . . . .	<b>0·78</b>	<b>0·53</b>	<b>0·68</b>
Groundnut . . . . .	0·77	0·81	0·65
<b>OILSEEDS</b> . . . . .	<b>0·71</b>	<b>0·66</b>	<b>0·62</b>
Cotton . . . . .	0·84	0·87	0·62
Tea . . . . .	0·80	0·40	0·83
Sugarcane . . . . .	1·15	1·12	0·43
Tobacco . . . . .	1·36	1·30	1·02
Chillies . . . . .	0·95	0·84	0·56
<b>NON-FOODGRAINS</b> . . . . .	<b>0·72</b>	<b>0·58</b>	<b>0·58</b>
<b>ALL CROPS</b> . . . . .	<b>0·73</b>	<b>0·47</b>	<b>0·63</b>

## APPENDIX 6.23

*Standard Errors of State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## MYSORE

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.74	0.48	0.72
Jowar . . . . .	1.00	0.48	1.02
Ragi . . . . .	1.20	0.51	1.16
Wheat . . . . .	0.99	0.54	1.05
<b>CEREALS</b> . . . . .	<b>0.70</b>	<b>0.47</b>	<b>0.64</b>
<b>PULSES</b> . . . . .	<b>0.96</b>	<b>0.66</b>	<b>0.88</b>
<b>FOODGRAINS</b> . . . . .	<b>0.72</b>	<b>0.49</b>	<b>0.65</b>
Groundnut . . . . .	1.35	0.73	1.28
<b>OILSEEDS</b> . . . . .	<b>1.28</b>	<b>0.64</b>	<b>1.23</b>
Cotton . . . . .	0.87	0.87	0.81
Coffee . . . . .	1.08	0.58	1.18
Sugarcane . . . . .	0.81	0.63	0.70
Tobacco . . . . .	0.91	0.71	0.93
<b>NON FOODGRAINS</b> . . . . .	<b>0.85</b>	<b>0.68</b>	<b>0.61</b>
<b>ALL CROPS</b> . . . . .	<b>0.71</b>	<b>0.50</b>	<b>0.61</b>

## APPENDIX 6.24

*Standard Errors of State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## HIMACHAL PRADESH

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	1.00	0.25	1.02
Maize . . . . .	0.96	0.31	0.95
Ragi . . . . .	0.90	0.45	0.87
Wheat . . . . .	1.11	0.41	1.04
Barley . . . . .	0.74	0.71	0.54
<b>CEREALS</b> . . . . .	<b>0.74</b>	<b>0.27</b>	<b>0.72</b>
<b>PULSES</b> . . . . .	<b>0.99</b>	<b>0.79</b>	<b>0.97</b>
<b>FOODGRAINS</b> . . . . .	<b>0.74</b>	<b>0.32</b>	<b>0.71</b>
Potatoes . . . . .	0.84	0.73	0.90
Ginger . . . . .	1.27	0.59	1.30
<b>NON-FOODGRAINS</b> . . . . .	<b>0.67</b>	<b>0.62</b>	<b>0.75</b>
<b>ALL CROPS</b> . . . . .	<b>0.70</b>	<b>0.32</b>	<b>0.67</b>

## APPENDIX 6.25

*Standard Errors of State Compound Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## BIHAR

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	1.21	0.46	1.14
Maize . . . . .	1.25	0.78	1.09
Wheat . . . . .	1.43	0.90	1.48
Barley . . . . .	1.19	0.86	1.09
<b>CEREALS</b> . . . . .	<b>1.11</b>	<b>0.48</b>	<b>1.02</b>
Gram . . . . .	1.33	0.78	1.20
<b>PULSES</b> . . . . .	<b>1.38</b>	<b>0.95</b>	<b>1.14</b>
<b>FOODGRAINS</b> . . . . .	<b>1.12</b>	<b>0.58</b>	<b>0.97</b>
Jute . . . . .	1.52	1.30	0.90
Sugarcane . . . . .	1.19	0.94	1.02
Potatoes . . . . .	1.51	0.86	1.51
<b>NON-FOODGRAINS</b> . . . . .	<b>0.95</b>	<b>0.86</b>	<b>0.91</b>
<b>ALL CROPS</b> . . . . .	<b>1.06</b>	<b>0.59</b>	<b>0.90</b>

## APPENDIX 6-26

*Standard Errors of State Compound Growth Rates of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## MAHARASHTRA

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.70	0.29	0.68
Jowar . . . . .	1.00	0.41	0.98
Bajra . . . . .	1.18	0.56	1.10
Wheat . . . . .	1.14	0.83	1.00
<b>CEREALS</b> . . . . .	0.81	0.30	0.77
Tur . . . . .	1.06	0.49	1.02
<b>PULSES</b> . . . . .	0.89	0.49	0.84
<b>FOODGRAINS</b> . . . . .	0.80	0.32	0.75
Groundnut . . . . .	1.06	0.75	1.05
<b>OILSEEDS</b> . . . . .	1.01	0.67	0.97
Cotton . . . . .	1.34	0.62	1.35
Sugarcane . . . . .	0.86	0.90	0.53
Tobacco . . . . .	0.97	0.89	0.94
Chillies . . . . .	0.81	0.60	0.74
<b>NON-FOODGRAINS</b> . . . . .	0.87	0.50	0.92
<b>ALL CROPS</b> . . . . .	0.81	0.34	0.77

## APPENDIX 6·27

*Standard Errors of State Compound Growth Rates of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## RAJASTHAN

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	1·85	0·92	1·72
Jowar . . . . .	1·40	0·84	1·27
Bajra . . . . .	1·41	0·70	1·32
Maize . . . . .	1·35	0·58	1·22
Wheat . . . . .	1·14	1·00	0·83
Barley . . . . .	0·95	0·76	0·73
<b>CEREALS</b> . . . . .	0·89	0·54	0·81
Gram . . . . .	1·60	1·29	1·30
<b>PULSES</b> . . . . .	1·52	1·06	1·15
<b>FOODGRAINS</b> . . . . .	0·88	0·66	0·80
Sesamum . . . . .	1·75	1·01	1·54
Rapeseed & Mustard . . . . .	1·95	1·66	1·57
<b>OILSEEDS</b> . . . . .	1·47	1·04	1·21
Cotton . . . . .	1·44	1·02	1·19
Sugarcane . . . . .	1·34	1·26	1·00
<b>NON-FOODGRAINS</b> . . . . .	1·11	0·98	1·03
<b>ALL-CROPS</b> . . . . .	0·87	0·67	0·75



## APPENDIX 6-28

*Standard Errors of State Compound Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## ANDHRA PRADESH

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.63	0.55	0.57
Jowar . . . . .	0.81	0.68	0.76
Bajra . . . . .	0.89	0.57	0.82
Ragi . . . . .	0.91	0.60	1.05
<b>CEREALS</b> . . . . .	<b>0.57</b>	<b>0.41</b>	<b>0.51</b>
<b>PULSES</b> . . . . .	<b>0.73</b>	<b>0.51</b>	<b>0.60</b>
<b>FOODGRAINS</b> . . . . .	<b>0.57</b>	<b>0.40</b>	<b>0.50</b>
Groundnut . . . . .	0.95	1.03	0.77
<b>OILSEEDS</b> . . . . .	<b>0.86</b>	<b>0.88</b>	<b>0.66</b>
Cotton . . . . .	0.92	1.02	0.84
Sugarcane . . . . .	0.81	0.84	0.69
Tobacco . . . . .	0.99	0.88	0.72
Chillies . . . . .	1.22	1.24	0.58
<b>NON-FOODGRAINS</b> . . . . .	<b>0.86</b>	<b>0.89</b>	<b>0.60</b>
<b>ALL CROPS</b> . . . . .	<b>0.52</b>	<b>0.40</b>	<b>0.48</b>

## APPENDIX 6-29

*Standard Errors of State Compound Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## MADHYA PRADESH

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	1.09	0.26	1.08
Jowar . . . . .	1.25	0.78	1.18
Maize . . . . .	1.06	0.34	1.06
Wheat . . . . .	1.05	0.87	0.83
<b>CEREALS</b> . . . . .	<b>0.82</b>	<b>0.36</b>	<b>0.78</b>
Gram . . . . .	1.07	0.61	1.00
<b>PULSES</b> . . . . .	<b>0.95</b>	<b>0.48</b>	<b>0.80</b>
<b>FOODGRAINS</b> . . . . .	<b>0.82</b>	<b>0.36</b>	<b>0.76</b>
Groundnut . . . . .	1.30	1.07	1.06
Linseed . . . . .	1.40	0.97	1.11
<b>OILSEEDS</b> . . . . .	<b>1.14</b>	<b>0.70</b>	<b>1.08</b>
Cotton . . . . .	1.43	0.89	1.46
Sugarcane . . . . .	1.27	1.14	0.75
<b>NON-FOODGRAINS</b> . . . . .	<b>1.00</b>	<b>0.62</b>	<b>0.96</b>
<b>ALL-CROPS</b> . . . . .	<b>0.81</b>	<b>0.38</b>	<b>0.74</b>

## APPENDIX 6-30

*Standard Errors of State Compound Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## ORISSA

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.92	0.52	0.90
CEREALS . . . . .	0.91	0.53	0.88
PULSES . . . . .	0.71	0.83	0.71
FOODGRAINS . . . . .	0.88	0.50	0.88
OILSEEDS . . . . .	0.97	0.86	0.87
Jute . . . . .	1.20	1.22	0.88
NON-FOODGRAINS . . . . .	0.98	0.90	0.62
ALL CROPS . . . . .	0.86	0.49	0.84

## APPENDIX 6-31

*Standard Errors of State Compound Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## KERALA

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.56	0.35	0.57
CEREALS . . . . .	0.56	0.35	0.57
FOODGRAINS . . . . .	0.56	0.36	0.54
Coconut . . . . .	0.39	0.28	0.37
OILSEEDS . . . . .	0.38	0.27	0.34
Tea . . . . .	0.68	0.37	0.75
Coffee . . . . .	0.55	0.49	0.49
Rubber . . . . .	0.79	0.84	1.04
NON-FOODGRAINS . . . . .	0.31	0.39	0.33
ALL CROPS . . . . .	0.38	0.28	0.33

## APPENDIX 6.32

*Standard Errors of State Compound Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## WEST BENGAL

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.94	0.42	0.86
CEREALS . . . . .	0.93	0.43	0.84
PULSES . . . . .	1.16	0.85	0.88
FOODGRAINS . . . . .	0.91	0.46	0.80
OILSEEDS . . . . .	1.12	0.95	1.15
Jute . . . . .	1.32	1.09	0.94
Tea . . . . .	0.87	0.21	0.86
Sugarcane . . . . .	1.34	0.94	1.66
Tobacco . . . . .	0.94	0.56	0.85
Potatoes . . . . .	1.26	0.51	1.20
NON-FOODGRAINS . . . . .	1.05	0.82	0.82
ALL-CROPS . . . . .	0.82	0.44	0.70

## APPENDIX 6.33

*Standard Errors of State Compound Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## UTTAR PRADESH

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.83	0.32	0.81
Jowar . . . . .	1.34	0.56	1.25
Bajra . . . . .	1.19	0.50	1.15
Maize . . . . .	1.19	0.62	1.21
Wheat . . . . .	0.99	0.57	0.97
Barley . . . . .	0.94	0.60	0.91
<b>CEREALS</b> . . . . .	0.74	0.38	0.71
Gram . . . . .	0.89	0.53	0.90
Tur . . . . .	1.47	0.59	1.43
<b>PULSES</b> . . . . .	0.93	0.41	0.96
<b>FOODGRAINS</b> . . . . .	0.75	0.35	0.73
Rapeseed and Mustard . . . . .	1.18	0.62	1.20
<b>OILSEEDS</b> . . . . .	1.03	0.55	1.01
Jute . . . . .	1.50	1.54	0.84
Sugarcane . . . . .	0.92	0.89	0.72
Tobacco . . . . .	1.01	0.95	0.69
Potatoes . . . . .	1.10	0.54	1.05
<b>NON-FOODGRAINS</b> . . . . .	0.81	0.51	0.75
<b>ALL-CROPS</b> . . . . .	0.73	0.31	0.71

## APPENDIX 6.34

*Standard Errors of State Compound Rates of Growth of Area under Crops,  
Agricultural Production and Productivity during 1952-53 to 1964-65*

## ASSAM

Crop/Group of Crops	Production	Area	Productivity
1	2	3	4
Rice . . . . .	0.56	0.38	0.62
CEREALS . . . . .	0.56	0.37	0.62
PULSES . . . . .	0.87	0.63	0.81
FOODGRAINS . . . . .	0.56	0.35	0.61
Rapeseed and Mustard . . . . .	1.02	0.45	0.99
OILSEEDS . . . . .	0.99	0.44	0.96
Jute . . . . .	1.04	0.63	0.93
Tea . . . . .	0.61	0.25	0.62
Sugarcane . . . . .	0.92	0.55	0.80
Tobacco . . . . .	0.61	0.53	0.53
Potatoes . . . . .	1.13	0.40	1.07
NON-FOODGRAINS . . . . .	0.57	0.39	0.56
ALL CROPS . . . . .	0.49	0.35	0.53

## APPENDIX 6.35

*Standard Errors of All-India and State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ALL CROPS

State	Agricultural Production		Area under Crops		Agricultural Productivity	
	Linear Growth Rate* (Per cent)	Standard Error	Linear Growth Rate* (Per cent)	Standard Error	Linear Growth Rate* (Per cent)	Standard Error
1	2	3	4	5	6	7
1. Punjab . . .	5.56	0.46	2.06	0.43	2.86	0.49
2. Gujarat . . .	5.12	1.19	0.46	0.22	4.52	1.13
3. Madras . . .	4.91	0.47	1.13	0.22	3.46	0.38
4. Mysore . . .	4.06	0.46	0.83	0.26	3.03	0.38
5. Himachal Pradesh . . .	3.93	0.55	0.73	0.10	3.00	0.50
6. Bihar . . .	3.21	1.06	0.71	0.34	2.39	0.78
7. Maharashtra . . .	3.19	0.69	0.44	0.11	2.62	0.63
8. Rajasthan . . .	3.08	0.83	3.23	0.47	(—)0.08	0.54
9. Andhra Pradesh . . .	3.06	0.30	0.27	0.16	2.72	0.25
10. Madhya Pradesh . . .	2.79	0.72	1.35	0.15	1.30	0.58
11. Orissa . . .	2.72	0.73	0.84	0.25	1.78	0.68
12. Kerala . . .	2.52	0.14	1.38	0.08	1.00	0.11
13. West Bengal . . .	2.07	0.69	0.60	0.20	1.41	0.50
14. Uttar Pradesh . . .	1.82	0.57	0.74	0.10	1.01	0.52
15. Assam . . .	1.25	0.26	1.32	0.13	(—)0.07	0.28
<b>ALL-INDIA . . .</b>	<b>3.42</b>	<b>0.36</b>	<b>1.28</b>	<b>0.13</b>	<b>1.91</b>	<b>0.29</b>

\*Average : 1952-53 to 1954-55 = 100.

## APPENDIX 6·36

*Standard Errors of All-India and State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## ALL CROPS

State	Agricultural Production		Area under crops		Agricultural Productivity	
	Compound Growth Rate (Per cent)	Standard Error	Compound Growth Rate (Per cent)	Standard Error	Compound Growth Rate (Per cent)	Standard Error
1	2	3	4	5	6	7
1. Punjab . .	4·56	0·61	1·90	0·65	2·61	0·68
2. Gujarat . .	4·55	1·07	0·45	0·46	4·09	1·05
3. Madras . .	4·17	0·73	1·10	0·47	3·04	0·63
4. Mysore . .	3·54	0·71	0·81	0·50	2·71	0·61
5. Himachal Pradesh .	3·39	0·70	0·71	0·32	2·67	0·67
6. Bihar . . .	2·97	1·06	0·71	0·59	2·25	0·90
7. Maharashtra . .	2·93	0·81	0·44	0·34	2·45	0·77
8. Rajasthan . .	2·74	0·87	2·85	0·67	(—)0·11	0·75
9. Andhra Pradesh .	2·71	0·52	0·26	0·40	2·45	0·48
10. Madhya Pradesh .	2·49	0·81	1·28	0·38	1·21	0·74
11. Orissa . . .	2·48	0·86	0·81	0·49	1·66	0·84
12. Kerala . . .	2·27	0·38	1·30	0·28	0·96	0·73
13. West Bengal . .	1·94	0·82	0·59	0·44	1·34	0·70
14. Uttar Pradesh . .	1·66	0·73	0·72	0·31	0·94	0·71
15. Assam . . . .	1·17	0·49	1·25	0·35	(—)0·08	0·53
ALL-INDIA . . .	3·01	0·57	1·21	0·36	1·77	0·52



## APPENDIX 6-37

*Standard Errors of All-India and State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## FOODGRAINS

State	Agricultural Production		Area under crops		Agricultural Productivity	
	Linear Growth Rate*	Standard Error	Linear Growth Rate*	Standard Error	Linear Growth Rate*	Standard Error
	(Per cent)		(Per cent)		(Per cent)	
1	2	3	4	5	6	7
1. Punjab . . .	4.30	0.51	1.63	0.43	2.26	0.50
2. Gujarat . . .	2.09	1.16	(--)-2.19	0.25	5.34	1.20
3. Madras . . .	4.89	0.54	0.75	0.28	3.92	0.45
4. Mysore . . .	3.71	0.50	0.91	0.25	2.64	0.44
5. Himachal Pradesh . . .	4.23	0.61	0.63	0.10	3.40	0.56
6. Bihar . . .	3.28	1.15	0.64	0.33	2.55	0.89
7. Maharashtra . . .	2.29	0.65	0.33	0.10	1.94	0.57
8. Rajasthan . . .	2.68	0.84	3.03	0.46	(-)0.23	0.61
9. Andhra Pradesh . . .	3.65	0.34	0.84	0.17	2.63	0.26
10. Madhya Pradesh . . .	2.58	0.73	1.28	0.13	1.16	0.60
11. Orissa . . .	2.60	0.75	0.79	0.26	1.75	0.74
12. Kerala . . .	4.37	0.33	0.51	0.13	3.74	0.31
13. West Bengal . . .	1.16	0.85	0.26	0.21	0.90	0.66
14. Uttar Pradesh . . .	0.91	0.56	0.40	0.13	0.49	0.53
15. Assam . . .	0.80	0.22	1.36	0.13	(-)0.48	0.34
<b>ALL-INDIA</b> . . .	<b>2.75</b>	<b>0.44</b>	<b>1.02</b>	<b>0.14</b>	<b>1.60</b>	<b>0.35</b>

\*Average : 1952-53 to 1954-55=100.

## APPENDIX 6-38

*Standard Errors of All-India and State Compound Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## FOODGRAINS

State	Agricultural Production		Area under Crops		Agricultural Productivity	
	Compound Growth Rate (Per cent)	Standard Error	Compound Growth Rate (Per cent)	Standard Error	Compound Growth Rate (Per cent)	Standard Error
1	2	3	4	5	6	7
1. Punjab . . .	3.66	0.65	1.53	0.64	2.10	0.69
2. Gujarat . . .	2.06	1.09	(—)2.45	0.52	4.64	1.04
3. Madras . . .	4.17	0.78	0.75	0.53	3.39	0.68
4. Mysore . . .	3.31	0.72	0.87	0.49	2.42	0.65
5. Himachal Pradesh . . .	3.63	0.74	0.62	0.32	3.00	0.71
6. Bihar . . . . .	3.05	1.12	0.64	0.58	2.39	0.97
7. Maharashtra . . . . .	2.20	0.80	0.32	0.32	1.87	0.75
8. Rajasthan . . . . .	2.42	0.88	2.68	0.66	(—)0.25	0.80
9. Andhra Pradesh . . . . .	3.21	0.57	0.81	0.40	2.40	0.50
10. Madhya Pradesh . . . . .	2.32	0.82	1.22	0.36	1.09	0.76
11. Orissa . . . . .	2.39	0.88	0.75	0.50	1.64	0.88
12. Kerala . . . . .	3.68	0.56	0.50	0.36	3.22	0.54
13. West Bengal . . . . .	1.14	0.91	0.26	0.46	0.88	0.80
14. Uttar Pradesh . . . . .	0.85	0.75	0.40	0.35	0.45	0.73
15. Assam . . . . .	0.76	0.56	1.28	0.35	(—)0.52	0.61
ALL-INDIA . . . . .	2.50	0.65	0.98	0.37	1.51	0.58

## APPENDIX 6.39

*Standard Errors of All-India and State Linear Rates of Growth of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## NON-FOODGRAINS

State	Agricultural Production		Area under Crops		Agricultural Productivity	
	Linear Growth Rate* (Per cent)	Standard Error	Linear Growth Rate* (Per cent)	Standard Error	Linear Growth Rate* (Per cent)	Standard Error
1	2	3	4	5	6	7
1. Punjab . . .	9.46	0.58	4.90	0.70	3.08	0.64
2. Gujarat . . .	8.03	1.49	5.93	0.91	1.64	1.11
3. Madras . . .	4.96	0.52	2.45	0.32	2.05	0.34
4. Mysore . . .	4.91	0.75	0.59	0.49	4.03	0.39
5. Himachal Pradesh . .	1.63	0.49	3.27	0.43	(—)1.30	0.56
6. Bihar . . .	2.61	0.92	1.84	0.78	0.78	0.80
7. Maharashtra . . .	5.15	0.85	0.83	0.25	3.65	0.98
8. Rajasthan . . .	4.89	1.50	5.13	0.99	(—)0.09	1.10
9. Andhra Pradesh . .	1.83	0.82	(—)1.59	0.71	3.93	0.42
10. Madhya Pradesh . .	4.50	1.21	1.67	0.41	2.44	1.02
11. Orissa . . .	3.40	1.02	1.65	0.84	1.54	0.42
12. Kerala . . .	1.83	0.09	2.06	0.16	(—)0.20	0.11
13. West Bengal . . .	4.23	1.10	4.29	0.77	0.09	0.62
14. Uttar Pradesh . . .	4.28	0.78	2.19	0.28	1.72	0.60
15. Assam . . .	1.62	0.36	1.21	0.15	0.35	0.32
ALL-INDIA . . .	4.79	0.36	2.56	0.19	1.79	0.29

\*Average: 1952-53 to 1954-55=100.

## APPENDIX 6.40

*Standard Errors of All-India and State Compound Growth Rates of Area under Crops, Agricultural Production and Productivity during 1952-53 to 1964-65*

## NON-FOODGRAINS

State	Agricultural Production		Area under Crops		Agricultural Productivity	
	Compound Growth Rate (Per cent)	Standard Error	Compound Growth Rate (Per cent)	Standard Error	Compound Growth Rate (Per cent)	Standard Error
1	2	3	4	5	6	7
1. Punjab . . .	7.04	0.71	4.11	0.83	2.81	0.78
2. Gujarat . . .	6.62	1.18	4.82	0.92	1.71	1.10
3. Madras . . .	4.17	0.72	2.24	0.58	1.90	0.58
4. Mysore . . .	4.08	0.85	0.59	0.68	3.46	0.61
5. Himachal Pradesh .	1.50	0.67	2.87	0.62	(—)1.34	0.75
6. Bihar . . .	2.49	0.95	1.75	0.86	0.74	0.91
7. Maharashtra . . .	4.38	0.87	0.81	0.50	3.24	0.92
8. Rajasthan . . .	4.08	1.11	4.36	0.98	(—)0.27	1.03
9. Andhra Pradesh .	1.60	0.86	(—)1.71	0.89	3.37	0.60
10. Madhya Pradesh .	3.81	1.00	1.54	0.62	2.24	0.96
11. Orissa . . .	2.95	0.98	1.49	0.90	1.45	0.62
12. Kerala . . .	1.70	0.31	1.90	0.39	(—)0.20	0.33
13. West Bengal . . .	3.77	1.05	3.61	0.82	0.15	0.82
14. Uttar Pradesh . .	3.61	0.81	1.98	0.51	1.59	0.75
15. Assam . . .	1.49	0.57	1.15	0.39	0.33	0.56
ALL-INDIA .	3.99	0.56	2.30	0.44	1.66	0.51

## APPENDIX 6.41

*Standard Errors of All-India and State Linear Rates of Growth of Area under Selected Crops during 1952-53 to 1964-65*

State	Foodgrains							Total Foodgrains
	Rice	Jowar	Bajra	Maize	Wheat	Barley	Gram	
1	2	3	4	5	6	7	8	9
1. Punjab . . . . .	0.48	0.63	0.51	0.40	0.27	0.71	1.43	0.43
2. Gujarat . . . . .	0.47	0.36	0.48	—	1.53	—	—	0.25
3. Madras . . . . .	0.35	0.28	0.51	—	—	—	—	0.28
4. Mysore . . . . .	0.24	0.25	—	—	0.30	—	—	0.25
5. Himachal Pradesh . . . . .	0.06	—	—	0.10	0.17	0.53	—	0.10
6. Bihar . . . . .	0.21	—	—	0.59	0.78	0.70	0.57	0.33
7. Maharashtra . . . . .	0.08	0.17	0.30	—	0.75	—	—	0.10
8. Rajasthan . . . . .	1.00	0.65	0.54	0.36	1.23	0.56	1.99	0.46
9. Andhra Pradesh . . . . .	0.33	0.50	0.32	—	—	—	—	0.17
10. Madhya Pradesh . . . . .	0.07	0.55	—	0.12	0.88	—	0.41	0.13
11. Orissa . . . . .	0.20	—	—	—	—	—	—	0.26
12. Kerala . . . . .	0.13	—	—	—	—	—	—	0.13
13. West Bengal . . . . .	0.18	—	—	—	—	—	—	0.21
14. Uttar Pradesh . . . . .	0.10	0.31	0.23	0.37	0.33	0.31	0.28	0.13
15. Assam . . . . .	0.14	—	—	—	—	—	—	0.13
ALL-INDIA . . . . .	0.07	0.21	0.28	0.24	0.50	0.40	0.70	0.14

## APPENDIX 6.41—contd.

State	Non-Foodgrains					Total Non-foodgrains	All-Crops
	Ground-nut	Cotton	Jute	Sugar-cane	Tobacco		
1	2	3	4	5	6	7	8
1. Punjab . . . . .	—	1.17	—	0.86	—	0.70	0.43
2. Gujarat . . . . .	1.89	1.14	—	2.67	1.17	0.91	0.22
3. Madras . . . . .	0.61	0.78	—	1.66	1.78	0.32	0.22
4. Mysore . . . . .	0.57	0.82	—	0.50	0.49	0.49	0.26
5. Himachal Pradesh . . . . .	—	—	—	—	—	0.43	0.10
6. Bihar . . . . .	—	—	2.04	1.03	—	0.78	0.34
7. Maharashtra . . . . .	0.55	0.39	—	1.10	0.67	0.25	0.11
8. Rajasthan . . . . .	—	1.18	—	2.18	—	0.99	0.47
9. Andhra Pradesh . . . . .	0.94	0.94	—	1.15	0.88	0.71	0.16
10. Madhya Pradesh . . . . .	1.26	0.75	—	1.82	—	0.41	0.15
11. Orissa . . . . .	—	—	1.52	—	—	0.84	0.25
12. Kerala . . . . .	—	—	—	—	—	0.16	0.08
13. West Bengal . . . . .	—	—	1.39	1.24	0.31	0.77	0.20
14. Uttar Pradesh . . . . .	—	—	3.77	0.85	0.84	0.28	0.10
15. Assam . . . . .	—	—	0.41	0.31	0.31	0.15	0.13
ALL-INDIA . . . . .	0.54	0.46	1.25	0.71	0.42	0.19	0.13

—Indicates that the Crop not being important in the State, Growth rate and its standard error have not been computed.

## APPENDIX 6.42

*Standard Errors of All-India and State Compound Rates of Growth of Area under Selected Crops during 1952-53 to 1964-65*

State	Foodgrains							Total Foodgrains
	Rice	Jowar	Bajra	Maize	Wheat	Barley	Gram	
1	2	3	4	5	6	7	8	9
1. Punjab . . . . .	0.59	0.80	0.74	0.59	0.53	0.88	1.15	0.64
2. Gujarat . . . . .	0.68	0.61	0.72	—	1.14	—	—	0.52
3. Madras . . . . .	0.60	0.53	0.72	—	—	—	—	0.53
4. Mysore . . . . .	0.48	0.48	—	—	0.54	—	—	0.49
5. Himachal Pradesh . . . . .	0.25	—	—	0.31	0.41	0.71	—	0.32
6. Bihar . . . . .	0.46	—	—	0.78	0.90	0.86	0.78	0.58
7. Maharashtra . . . . .	0.29	0.41	0.56	—	0.83	—	—	0.32
8. Rajasthan . . . . .	0.92	0.84	0.70	0.58	1.00	0.76	1.29	0.66
9. Andhra Pradesh . . . . .	0.55	0.68	0.57	—	—	—	—	0.40
10. Madhya Pradesh . . . . .	0.26	0.78	—	0.34	0.87	—	0.61	0.36
11. Orissa . . . . .	0.52	—	—	—	—	—	—	0.50
12. Kerala . . . . .	0.35	—	—	—	—	—	—	0.36
13. West Bengal . . . . .	0.42	—	—	—	—	—	—	0.46
14. Uttar Pradesh . . . . .	0.32	0.56	0.50	0.62	0.57	0.60	0.53	0.35
15. Assam . . . . .	0.38	—	—	—	—	—	—	0.35
ALL-INDIA . . . . .	0.26	0.46	0.53	0.48	0.68	0.65	0.81	0.37

## APPENDIX 6.42—contd.

State	Non-Foodgrains					Total Non-Foodgrains	All-Crops
	Ground-nut	Cotton	Jute	Sugar-cane	Tobacco		
1	2	3	4	5	6	7	8
1. Punjab . . . . .	—	1.02	—	0.83	—	0.83	0.65
2. Gujarat . . . . .	1.21	1.01	—	1.14	0.98	0.92	0.46
3. Madras . . . . .	0.81	0.87	—	1.12	1.30	0.58	0.47
4. Mysore . . . . .	0.73	0.87	—	0.63	0.71	0.68	0.50
5. Himachal Pradesh . . . . .	—	—	—	—	—	0.62	0.32
6. Bihar . . . . .	—	—	1.30	0.94	—	0.86	0.59
7. Maharashtra . . . . .	0.75	0.62	—	0.90	0.89	0.50	0.34
8. Rajasthan . . . . .	—	1.02	—	1.26	—	0.98	0.67
9. Andhra Pradesh . . . . .	1.03	1.02	—	0.84	0.88	0.89	0.40
10. Madhya Pradesh . . . . .	1.07	0.89	—	1.14	—	0.62	0.38
11. Orissa . . . . .	—	—	1.22	—	—	0.90	0.49
12. Kerala . . . . .	—	—	—	—	—	0.39	0.28
13. West Bengal . . . . .	—	—	1.09	0.94	0.56	0.82	0.44
14. Uttar Pradesh . . . . .	—	—	1.54	0.89	0.95	0.51	0.31
15. Assam . . . . .	—	—	0.63	0.55	0.53	0.39	0.35
ALL-INDIA . . . . .	0.73	0.67	1.06	0.80	0.63	0.44	0.36

— Indicates that the Crop not being important in the State, Growth rate and its standard error have not been computed.

## APPENDIX 6.43

*Standard Errors of All-India and State Linear Rates of Growth of Agricultural Production of Selected Crops during 1952-53 to 1964-65*

State	Foodgrains							Total Foodgrains
	Rice	Jowar	Bajra	Maize	Wheat	Barley	Gram	
1	2	3	4	5	6	7	8	9
1. Punjab . . . . .	1.31	3.01	1.57	1.26	0.62	0.85	2.00	0.51
2. Gujarat . . . . .	2.14	1.37	1.69	—	1.30	—	—	1.16
3. Madras . . . . .	0.56	1.08	0.64	—	—	—	—	0.54
4. Mysore . . . . .	0.60	0.97	—	—	1.22	—	—	0.50
5. Himachal Pradesh . . . . .	1.27	—	—	1.22	1.32	0.58	—	0.61
6. Bihar . . . . .	1.35	—	—	1.60	1.63	1.30	1.40	1.15
7. Maharashtra . . . . .	0.54	1.14	1.23	—	1.40	—	—	0.65
8. Rajasthan . . . . .	2.68	1.50	2.09	1.64	1.58	0.87	4.43	0.84
9. Andhra Pradesh . . . . .	0.41	0.71	0.81	—	—	—	—	0.34
10. Madhya Pradesh . . . . .	1.25	1.46	—	1.22	1.25	—	1.28	0.73
11. Orissa . . . . .	0.81	—	—	—	—	—	—	0.75
12. Kerala . . . . .	0.33	—	—	—	—	—	—	0.33
13. West Bengal . . . . .	0.92	—	—	—	—	—	—	0.85
14. Uttar Pradesh . . . . .	0.82	1.38	1.17	1.46	1.04	0.76	0.75	0.56
15. Assam . . . . .	0.32	—	—	—	—	—	—	0.22
ALL-INDIA . . . . .	0.57	0.72	0.88	0.39	0.73	0.69	1.16	0.44

State	Non-Foodgrains					Total Non-Foodgrains	All-Crops
	Groundnut	Cotton	Jute	Sugarcane	Tobacco		
1	2	3	4	5	6	7	8
1. Punjab . . . . .	—	1.10	—	1.60	—	0.58	0.46
2. Gujarat . . . . .	2.21	1.86	—	2.82	2.20	1.49	1.19
3. Madras . . . . .	0.56	0.72	—	1.73	2.10	0.52	0.47
4. Mysore . . . . .	2.20	0.81	—	0.84	0.86	0.75	0.46
5. Himachal Pradesh . . . . .	—	—	—	—	—	0.49	0.55
6. Bihar . . . . .	—	—	2.91	1.65	—	0.92	1.06
7. Maharashtra . . . . .	1.03	1.74	—	0.94	0.80	0.85	0.69
8. Rajasthan . . . . .	—	2.40	—	2.54	—	1.50	0.83
9. Andhra Pradesh . . . . .	0.88	0.85	—	1.17	1.16	0.82	0.30
10. Madhya Pradesh . . . . .	2.22	1.81	—	2.39	—	1.21	0.72
11. Orissa . . . . .	—	—	1.48	—	—	1.02	0.73
12. Kerala . . . . .	—	—	—	—	—	0.09	0.14
13. West Bengal . . . . .	—	—	1.94	2.12	0.86	1.16	0.69
14. Uttar Pradesh . . . . .	—	—	3.90	0.96	0.95	0.78	0.57
15. Assam . . . . .	—	—	1.13	0.94	0.38	0.36	0.26
ALL-INDIA . . . . .	0.77	0.95	1.40	0.85	0.65	0.36	0.36

— Indicates that the Crop not being important in the State, Growth rate and its standard error have not been computed.

## APPENDIX 6-44

*Standard Errors of All-India and State Compound Rates of Growth of Agricultural Production of Selected Crops during 1952-53 to 1964-65*

State	Foodgrains							Total Foodgrains
	Rice	Jowar	Bajra	Maize	Wheat	Barley	Gram	
1	2	3	4	5	6	7	8	9
1. Punjab . . .	0.95	1.53	1.36	1.08	0.65	1.03	1.33	0.65
2. Gujarat . . .	1.47	1.23	1.53	—	1.13	—	—	1.09
3. Madras . . .	0.77	1.05	0.81	—	—	—	—	0.76
4. Mysore . . .	0.74	1.00	—	—	0.99	—	—	0.72
5. Himachal Pradesh	1.00	—	—	0.96	1.11	0.74	—	0.74
6. Bihar . . .	1.21	—	—	1.25	1.43	1.19	1.33	1.12
7. Maharashtra . . .	0.70	1.00	1.18	—	1.14	—	—	0.80
8. Rajasthan . . .	1.85	1.40	1.41	1.35	1.14	0.95	1.69	0.88
9. Andhra Pradesh	0.63	0.81	0.89	—	—	—	—	0.57
10. Madhya Pradesh	1.09	1.25	—	1.06	1.05	—	1.07	0.82
11. Orissa . . .	0.92	—	—	—	—	—	—	0.88
12. Kerala . . .	0.56	—	—	—	—	—	—	0.56
13. West Bengal . . .	0.94	—	—	—	—	—	—	0.91
14. Uttar Pradesh . . .	0.83	1.34	1.19	—	0.99	0.94	0.89	0.75
15. Assam . . .	0.56	—	—	—	—	—	—	0.56
ALL-INDIA . . .	0.72	0.86	0.94	0.63	0.80	0.88	1.03	0.65

State	Non-Foodgrains					Total Non-Foodgrains	All-Crops
	Ground nut	Cotton	Jute	Sugarcane	Tobacco		
1	2	3	4	5	6	7	8
1. Punjab . . .	—	0.95	—	1.03	—	0.71	0.61
2. Gujarat . . .	1.43	1.32	—	1.10	1.39	1.18	1.07
3. Madras . . .	0.77	0.84	—	1.15	1.36	0.72	0.73
4. Mysore . . .	1.35	0.87	—	0.81	0.91	0.85	0.71
5. Himachal Pradesh	—	—	—	—	—	0.67	0.70
6. Bihar . . .	—	—	1.52	1.19	—	0.95	1.06
7. Maharashtra . . .	1.06	1.34	—	0.86	0.97	0.87	0.81
8. Rajasthan . . .	—	1.44	—	1.34	—	1.11	0.87
9. Andhra Pradesh	0.95	0.92	—	0.81	0.99	0.86	0.52
10. Madhya Pradesh	1.30	1.43	—	1.27	—	1.00	0.81
11. Orissa . . .	—	—	1.20	—	—	0.98	0.86
12. Kerala . . .	—	—	—	—	—	0.31	0.38
13. West Bengal . . .	—	—	1.32	1.34	0.94	1.05	0.82
14. Uttar Pradesh . . .	—	—	1.50	0.92	1.01	0.81	0.73
15. Assam . . .	—	—	1.04	0.92	0.61	0.57	0.49
ALL-INDIA . . .	0.83	0.95	1.11	0.83	0.78	0.56	0.57

— Indicates that the crop not being important in the State, Growth rate and its standard error have not been computed.



## APPENDIX 6.45

*Standard Errors of All-India and State Linear Rates of Growth of Agricultural Productivity of Selected Crops during 1952-53 to 1964-65*

State	Foodgrains							Total Foodgrains
	Rice	Jowar	Bajra	Maize	Wheat	Barley	Gram	
1	2	3	4	5	6	7	8	9
1. Punjab	0.65	2.69	1.45	1.05	0.57	0.83	1.05	0.50
2. Gujarat	1.87	1.47	2.05	—	1.15	—	—	1.20
3. Madras	0.29	1.10	0.88	—	—	—	—	0.45
4. Mysore	0.58	0.99	—	—	1.21	—	—	0.44
5. Himachal Pradesh	1.31	—	—	1.13	1.14	0.30	—	0.56
6. Bihar	1.22	—	—	1.19	1.51	1.09	1.17	0.89
7. Maharashtra	0.49	1.03	1.13	—	1.03	—	—	0.57
8. Rajasthan	2.11	1.26	1.67	1.33	0.65	0.54	1.91	0.61
9. Andhra Pradesh	0.34	0.60	0.71	—	—	—	—	0.26
10. Madhya Pradesh	1.17	1.40	—	1.10	0.62	—	1.01	0.60
11. Orissa	0.75	—	—	—	—	—	—	0.74
12. Kerala	0.34	—	—	—	—	—	—	0.31
13. West Bengal	0.76	—	—	—	—	—	—	0.66
14. Uttar Pradesh	0.73	1.26	1.13	1.41	0.94	0.78	0.76	0.53
15. Assam	0.35	—	—	—	—	—	—	0.34
<b>ALL-INDIA</b>	<b>0.48</b>	<b>0.65</b>	<b>0.72</b>	<b>0.31</b>	<b>0.59</b>	<b>0.57</b>	<b>0.76</b>	<b>0.35</b>

State	Non-Foodgrains					Total Non-Foodgrains	All-Crops
	Groundnut	Cotton	Jute	Sugarcane	Tobacco		
1	2	3	4	5	6	7	8
1. Punjab	—	0.80	—	0.81	—	0.64	0.49
2. Gujarat	1.47	1.37	—	0.54	1.66	1.11	1.13
3. Madras	0.41	0.41	—	0.18	0.97	0.34	0.38
4. Mysore	1.80	0.67	—	0.50	0.93	0.39	0.38
5. Himachal Pradesh	—	—	—	—	—	0.56	0.50
6. Bihar	—	—	0.84	1.09	—	0.80	0.78
7. Maharashtra	0.98	1.76	—	0.29	0.91	0.98	0.63
8. Rajasthan	—	1.57	—	0.90	—	1.10	0.54
9. Andhra Pradesh	0.64	0.76	—	0.53	0.53	0.42	0.25
10. Madhya Pradesh	1.18	2.04	—	0.59	—	1.02	0.58
11. Orissa	—	—	0.80	—	—	0.42	0.68
12. Kerala	—	—	—	—	—	0.11	0.11
13. West Bengal	—	—	0.77	1.06	0.71	0.62	0.50
14. Uttar Pradesh	—	—	0.75	0.53	0.47	0.60	0.52
15. Assam	—	—	0.81	0.68	0.27	0.32	0.28
<b>ALL-INDIA</b>	<b>0.64</b>	<b>0.75</b>	<b>0.43</b>	<b>0.41</b>	<b>0.46</b>	<b>0.29</b>	<b>0.29</b>

— In lieu of that the Crop not being important in the State, Growth rate and its standard error have not been computed.

## APPENDIX 6.46

*Standard Errors of All-India and State Compound Rates of Growth of Agricultural Productivity of Selected Crops during 1952-53 to 1964 65*

State	Foodgrains							Total Food-grains
	Rice	Jowar	Bajra	Maize	Wheat	Barley	Gram	
1	2	3	4	5	6	7	8	9
1. Punjab . . .	0.82	1.42	1.26	1.04	0.75	0.90	1.07	0.69
2. Gujarat . . .	1.39	1.21	1.42	—	1.09	—	—	1.04
3. Madras . . .	0.53	1.05	0.89	—	—	—	—	0.68
4. Mysore . . .	0.72	1.02	—	—	1.05	—	—	0.65
5. Himachal Pradesh	1.02	—	—	0.95	1.04	0.54	—	0.71
6. Bihar . . .	1.14	—	—	1.09	1.48	1.09	1.20	0.97
7. Maharashtra . . .	0.68	0.98	1.10	—	1.00	—	—	0.75
8. Rajasthan . . .	1.72	1.27	1.32	1.22	0.83	0.73	1.30	0.80
9. Andhra Pradesh	0.57	0.76	0.82	—	—	—	—	0.50
10. Madhya Pradesh	1.08	1.18	—	1.06	0.83	—	1.00	0.76
11. Orissa . . .	0.90	—	—	—	—	—	—	0.88
12. Kerala . . .	0.57	—	—	—	—	—	—	0.54
13. West Bengal . . .	0.86	—	—	—	—	—	—	0.80
14. Uttar Pradesh . . .	0.81	1.25	1.15	1.21	0.97	0.91	0.90	0.73
15. Assam . . .	0.62	—	—	—	—	—	—	0.61
ALL-INDIA . . .	0.68	0.82	0.86	0.57	0.77	0.77	0.88	0.58

State	Non-Foodgrains					Total Non-Food-Grains	All Crops
	Ground-nut	Cotton	Jute	Sugarcane	Tobacco		
1	2	3	4	5	6	7	8
1. Punjab . . .	—	0.94	—	0.86	—	0.78	0.68
2. Gujarat . . .	1.29	1.21	—	0.74	1.30	1.10	1.05
3. Madras . . .	0.65	0.62	—	0.43	1.02	0.58	0.63
4. Mysore . . .	1.28	0.81	—	0.70	0.93	0.61	0.61
5. Himachal Pradesh	—	—	—	—	—	0.75	0.67
6. Bihar . . .	—	—	0.90	1.02	—	0.91	0.90
7. Maharashtra . . .	1.05	1.35	—	0.53	0.94	0.92	0.77
8. Rajasthan . . .	—	1.19	—	1.00	—	1.03	0.75
9. Andhra Pradesh	0.77	0.84	—	0.69	0.72	0.60	0.48
10. Madhya Pradesh	1.06	1.46	—	0.75	—	0.96	0.74
11. Orissa . . .	—	—	0.88	—	—	0.62	0.84
12. Kerala . . .	—	—	—	—	—	0.33	0.33
13. West Bengal . . .	—	—	0.94	1.06	0.85	0.82	0.70
14. Uttar Pradesh . . .	—	—	0.84	0.72	0.69	0.75	0.71
15. Assam . . .	—	—	0.93	0.80	0.53	0.56	0.53
ALL-INDIA . . .	0.80	0.86	0.65	0.63	0.67	0.51	0.52

— Indicates that the Crop not being important in the State, Growth rate and its standard error have not been computed.

## APPENDIX 6.47

*Significance of Linear, Exponential and Second Degree Trends for All-India Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1949-50 to 1964-65*

Crop/Group of Crops	Agricultural Production			Area under Crops			Agricultural Productivity		
	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	SS	SS	—	SS	SS	—	SS	SS	—
Jowar	SS	SS	—	SS	NS	—	SS	S	—
Bajra	SS	S	—	S	NS	—	NS	NS	NS
Maize	SS	SS	—	SS	SS	—	SS	NS	—
Ragi	SS	SS	—	S	NS	—	SS	SS	—
Wheat	SS	SS	—	SS	SS	—	SS	NS	—
Barley	NS	NS	S	NS	NS	SS	NS	NS	NS
CEREALS	SS	SS	—	SS	SS	—	SS	SS	—
Gram	S	S	—	SS	SS	—	NS	NS	NS
PULSES	S	S	—	SS	SS	—	NS	NS	NS
FOODGRAINS	SS	SS	—	SS	SS	—	SS	SS	—
Groundnut	SS	SS	—	SS	SS	—	NS	NS	NS
Sesamum	NS	NS	NS	NS	NS	NS	NS	NS	NS
Rapeseed & Mustard	SS	SS	—	SS	SS	—	NS	NS	NS
OILSEEDS	SS	SS	—	SS	SS	—	NS	NS	NS
Cotton	SS	SS	—	SS	S	—	SS	S	—
Jute	SS	SS	—	SS	SS	—	NS	NS	S
FIBRES	SS	SS	—	SS	SS	—	SS	SS	—
Tea	SS	SS	—	SS	S	—	SS	SS	—
Coffee	SS	SS	—	SS	SS	—	SS	SS	—
Sugarcane	SS	SS	—	SS	SS	—	SS	S	—
Tobacco	SS	SS	—	SS	S	—	S	NS	—
NON-FOODGRAINS	SS	SS	—	SS	SS	—	SS	NS	—
ALL CROPS	SS	SS	—	SS	SS	—	SS	SS	—

SS—Highly Significant      S—Significant      NS—Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6.48

*Significance of Linear, Exponential and Second Degree Trends for All-India Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

Crop/Group of Crops	Agricultural Production			Area under Crops			Agricultural Productivity		
	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	SS	SS	—	SS	SS	—	SS	Σ	—
Jowar	Σ	Σ	—	NS	NS	NS	Σ	NS	—
Bajra	NS	NS	NS	NS	NS	NS	Σ	NS	—
Maize	SS	SS	—	SS	SS	—	NS	NS	NS
Ragi	SS	Σ	—	NS	NS	NS	Σ	NS	—
Wheat	SS	SS	—	SS	SS	—	NS	NS	NS
Barley	NS	NS	NS	Σ	Σ	—	NS	NS	NS
CEREALS	SS	SS	—	SS	Σ	—	SS	Σ	—
Gram	NS	NS	Σ	NS	NS	Σ	NS	NS	NS
PULSES	NS	NS	NS	SS	Σ	—	NS	NS	NS
FOODGRAINS	SS	SS	—	SS	Σ	—	NS	Σ	—
Groundnut	SS	SS	—	SS	SS	—	NS	NS	NS
Sesamum	NS	NS	NS	NS	NS	Σ	NS	NS	NS
Rapeseed & Mustard	SS	Σ	—	Σ	SS	—	NS	NS	NS
OILSEEDS	SS	SS	—	SS	SS	—	NS	NS	NS
Cotton	NS	NS	—	Σ	NS	—	Σ	Σ	—
Jute	SS	SS	—	SS	SS	—	NS	NS	NS
FIBRES	SS	SS	—	SS	Σ	—	NS	SS	—
Tea	SS	SS	—	SS	Σ	—	SS	Σ	—
Coffee	SS	SS	—	SS	SS	—	SS	SS	—
Sugarcane	SS	SS	—	SS	SS	—	SS	Σ	—
Tobacco	SS	SS	—	SS	Σ	—	SS	Σ	—
NON-FOODGRAINS	SS	SS	—	SS	NS	—	SS	SS	—
ALL-CROPS	SS	SS	—	SS	NS	—	SS	SS	—

SS—Highly Significant

Σ—Significant

NS—Not Significant.

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6.49

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## PUNJAB

Crop/Group of Crops	Agricultural Production			Area under Crops			Agricultural Productivity		
	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	SS	SS	—	SS	SS	—	S	NS	—
Jowar	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bajra	NS	NS	S	SS	SS	—	NS	NS	NS
Maize	SS	SS	—	SS	SS	—	NS	NS	NS
Wheat	SS	SS	—	SS	SS	—	SS	S	—
Barley	S	S	—	SS	SS	—	NS	NS	NS
CEREALS	SS	SS	—	SS	SS	—	SS	SS	—
Gram	NS	NS	S	NS	NS	SS	NS	NS	NS
PULSES	NS	NS	S	NS	NS	S	NS	NS	NS
FOODGRAINS	SS	SS	—	SS	S	—	SS	S	—
OILSEEDS	SS	SS	—	SS	SS	—	S	S	—
Cotton	SS	SS	—	SS	SS	—	S	S	—
Sugarcane	SS	SS	—	SS	SS	—	S	S	—
Potatoes	SS	SS	—	SS	SS	—	SS	SS	—
NON-FOODGRAINS	SS	SS	—	SS	SS	—	SS	SS	—
ALL CROPS	SS	SS	—	SS	S	—	SS	SS	—

SS—Highly Significant

S—Significant

NS—Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6.50

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## GUJARAT

Crop/Group of Crops	Agricultural Production			Area under Crops			Agricultural Productivity		
	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	S	SS	—	S	NS	—	S	SS	—
Jowar	NS	NS	NS	SS	S	—	NS	S	—
Bajra	NS	NS	S	SS	SS	—	S	SS	—
Wheat	S	S	—	NS	NS	NS	S	S	—
CEREALS	NS	NS	NS	SS	S	—	S	SS	—
PULSES	NS	NS	NS	NS	NS	NS	SS	SS	—
FOODGRAINS	NS	NS	NS	SS	S	—	SS	SS	—
Groundnut	SS	SS	—	SS	SS	—	NS	NS	NS
OILSEEDS	SS	SS	—	SS	SS	—	NS	NS	NS
Cotton	SS	SS	—	S	S	—	S	S	—
Sugarcane	SS	SS	—	SS	SS	—	NS	NS	NS
Tobacco	SS	SS	—	S	S	—	S	S	—
NON-FOODGRAINS	SS	SS	—	SS	SS	—	NS	NS	NS
ALL CROPS	SS	SS	—	NS	NS	S	SS	SS	—

SS—Highly Significant

S—Significant

NS—Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6.51

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## MADRAS

Crop/Group of Crops	Agricultural Production			Area under Crops			Agricultural Productivity		
	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	SS	SS	—	SS	SS	—	SS	SS	—
Jowar	SS	SS	—	NS	NS	NS	SS	SS	—
Bajra	SS	SS	—	SS	SS	—	SS	SS	—
Ragi	NS	NS	NS	S	NS	—	NS	NS	NS
CEREALS	SS	SS	—	S	NS	—	SS	SS	—
PULSES	NS	NS	SS	S	NS	—	NS	NS	SS
FOODGRAINS	SS	SS	—	S	NS	—	SS	SS	—
Groundnut	SS	SS	—	SS	SS	—	S	NS	—
OILSEEDS	NS	SS	—	SS	SS	—	SS	S	—
Cotton	SS	SS	—	NS	NS	NS	SS	SS	—
Tea	SS	SS	—	NS	NS	NS	SS	SS	—
Sugarcane	SS	SS	—	SS	SS	—	NS	NS	NS
Tobacco	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chillies	NS	SS	—	NS	SS	—	NS	NS	NS
NON-FOODGRAINS	NS	NS	—	NS	NS	—	SS	NS	—
ALL CROPS	SS	NS	—	SS	S	—	SS	SS	—

SS—Highly Significant

S—Significant

NS—Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6-52

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## MYSORE

Crop/Group of Crops	Agricultural Production			Area under Crops			Agricultural Productivity		
	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	SS	SS	—	SS	SS	—	SS	SS	—
Jowar	S	S	—	SS	SS	—	NS	NS	NS
Ragi	S	S	—	S	NS	—	NS	S	—
Wheat	SS	SS	—	SS	SS	—	S	S	—
CEREALS	SS	SS	—	SS	NS	—	SS	SS	—
PULSES	NS	NS	NS	NS	NS	SS	NS	NS	NS
FOODGRAINS	SS	SS	—	SS	NS	—	SS	SS	—
Grain	NS	NS	NS	NS	NS	SS	NS	NS	NS
OILSEEDS	NS	NS	NS	NS	NS	SS	NS	NS	NS
Cotton	S	S	—	NS	NS	S	NS	NS	NS
Coffee	SS	SS	—	SS	SS	—	S	S	—
Sugarcane	SS	SS	—	SS	SS	—	SS	SS	—
Tobacco	S	S	—	S	NS	—	SS	SS	—
NON-FOODGRAINS	SS	SS	—	NS	NS	SS	SS	SS	—
ALL CROPS	SS	SS	—	SS	NS	—	SS	SS	—

SS—Highly Significant

S—Significant

NS—Not Significant

NOTE.— Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.



## APPENDIX 6-53

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## HIMACHAL PRADESH

Crop/Group of Crops	Agricultural Production			Area under crops			Agricultural Productivity		
	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	SS	SS	—	SS	NS	—	SS	SS	—
Maize	SS	SS	—	SS	S	—	SS	SS	—
Ragi	NS	NS	S	SS	S	—	NS	NS	S
Wheat	S	S	—	SS	SS	—	NS	NS	NS
Barley	NS	NS	S	NS	NS	SS	SS	NS	—
<b>CEREALS</b>	SS	SS	—	SS	S	—	SS	SS	—
<b>PULSES</b>	SS	NS	—	NS	NS	NS	SS	SS	—
<b>FOODGRAINS</b>	SS	SS	—	SS	NS	—	SS	SS	—
Potatoes	SS	SS	—	SS	SS	—	NS	NS	NS
Ginger	SS	SS	—	SS	SS	—	SS	SS	—
<b>NON-FOODGRAINS</b>	SS	S	—	SS	NS	—	S	NS	—
<b>ALL CROPS</b>	SS	SS	—	SS	S	—	SS	SS	—

SS—Highly Significant

S—Significant

NS—Not Significant

**NOTE.**—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6.54

*Significance of Linear Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## BIHAR

Crop/Group of Crops	Agricultural Production			Area under crops			Agricultural Productivity		
	Linear	Ex-ponential	Second Degree	Linear	Ex-ponential	Second Degree	Linear	Ex-ponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	S	S	—	NS	NS	NS	S	S	—
Maize	NS	S	—	S	NS	—	NS	NS	NS
Wheat	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barley	NS	NS	NS	NS	NS	NS	NS	NS	NS
CEREALS	S	S	—	NS	NS	NS	S	S	—
Gram	NS	NS	NS	NS	NS	NS	NS	NS	NS
PULSES	NS	NS	NS	NS	NS	NS	NS	NS	S
FOODGRAINS	S	S	—	NS	NS	NS	S	S	—
Jute	NS	NS	NS	NS	NS	NS	SS	SS	—
Sugarcane	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potatoes	S	SS	—	SS	SS	—	NS	NS	SS
NON FOODGRAINS	S	S	—	S	NS	—	NS	NS	NS
ALL CROPS	S	S	—	NS	NS	NS	S	S	—

SS—Highly Significant

S—Significant

NS—Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6.55

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## MAHARASHTRA

Crop/Group of Crops	Agricultural Production			Area under crops			Agricultural Productivity		
	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	SS	SS	—	SS	SS	—	S	NS	—
Jowar	S	S	—	SS	NS	—	NS	NS	NS
Bajra	NS	NS	NS	SS	NS	—	S	S	—
Wheat	S	SS	—	S	S	—	NS	NS	NS
CEREALS	SS	SS	—	SS	NS	—	SS	S	—
Tur	NS	NS	NS	NS	NS	NS	NS	NS	NS
PULSES	NS	NS	NS	S	NS	—	NS	NS	NS
FOODGRAINS	SS	S	—	SS	NS	—	SS	S	—
Groundnut	SS	SS	—	S	NS	—	SS	SS	—
OILSEEDS	SS	SS	—	NS	NS	S	SS	NS	—
Cotton	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sugarcane	SS	SS	—	SS	SS	—	SS	NS	—
Tobacco	S	S	—	SS	SS	—	NS	NS	NS
Chillies	SS	SS	—	SS	SS	—	SS	SS	—
NON FOODGRAINS	SS	SS	—	SS	NS	—	SS	SS	—
ALL CROPS	SS	SS	—	SS	NS	—	SS	SS	—

SS—Highly Significant

S—Significant

NS—Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6.56

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## RAJASTHAN

Crop/Group of Crops	Agricultural Production			Area under crops			Agricultural Productivity		
	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	NS	S	—	SS	SS	—	NS	NS	NS
Jowar	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bajra	NS	S	—	SS	SS	—	NS	NS	NS
Maize	SS	SS	—	SS	SS	—	NS	NS	NS
Wheat	NS	NS	NS	S	S	—	NS	NS	NS
Barley	S	S	—	S	S	—	NS	NS	NS
CEREALS	S	S	—	SS	SS	—	NS	NS	NS
Gram	NS	S	—	S	SS	—	NS	NS	NS
PULSES	NS	NS	—	S	SS	—	NS	NS	S
FOODGRAINS	SS	S	—	SS	SS	—	NS	NS	NS
Sesamum	NS	NS	NS	S	S	—	NS	S	—
Rapeseed & Mustard	NS	NS	NS	NS	SS	—	NS	NS	NS
OILSEEDS	NS	NS	NS	SS	SS	—	NS	NS	NS
Cotton	S	SS	—	S	S	—	NS	S	—
Sugarcane	S	SS	—	SS	SS	—	NS	NS	NS
NON FOODGRAINS	SS	SS	—	SS	SS	—	NS	NS	NS
ALL CROPS	SS	SS	—	SS	SS	—	NS	NS	NS

SS—Highly Significant

S—Significant

NS—Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear Exponential trends were both not good fits.

## APPENDIX 6-57

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## ANDHRA PRADESH

Crop/Group of Crops	Agricultural Production			Area under Crops			Agricultural Productivity		
	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	SS	SS	—	SS	SS	—	SS	S	—
Jowar	S	NS	—	NS	NS	NS	NS	NS	NS
Bajra	NS	NS	NS	S	NS	—	S	NS	—
Ragi	S	S	—	NS	NS	NS	NS	NS	S
CEREALS	SS	SS	—	S	NS	—	SS	SS	—
PULSES	NS	NS	NS	S	NS	—	S	NS	—
FOODGRAINS	SS	SS	—	SS	NS	—	SS	SS	—
Groundnut	S	S	—	SS	SS	—	S	NS	—
OILSEEDS	S	S	—	SS	SS	—	NS	NS	NS
Cotton	NS	NS	NS	NS	NS	NS	NS	NS	S
Sugarcane	SS	SS	—	SS	SS	—	SS	SS	—
Tobacco	S	S	—	S	S	—	NS	NS	NS
Chillies	NS	NS	NS	NS	NS	NS	SS	SS	—
NON FOODGRAINS	S	NS	—	S	NS	—	SS	SS	—
ALL CROPS	SS	SS	—	NS	NS	NS	SS	SS	—

SS—Highly Significant

S—Significant

NS—Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6-58

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## MADHYA PRADESH

Crop/Group of Crops	Agricultural Production			Area under Crops			Agricultural Productivity		
	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree	Linear	Exponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	NS	NS	NS	SS	SS		NS	NS	NS
Jowar	NS	NS	NS	NS	NS	NS	S	S	—
Maize	SS	SS	—	SS	SS	—	NS	NS	NS
Wheat	S	S	..	SS	SS	..	NS	NS	NS
CEREALS	SS	S	..	SS	NS	..	NS	NS	NS
Gram	NS	NS	NS	S	NS	..	NS	NS	NS
PULSES	NS	NS	NS	SS	SS	..	NS	NS	NS
FOODGRAINS	SS	S	..	SS	SS	..	NS	NS	NS
Groundnut	SS	SS	..	SS	NS	..	NS	NS	NS
Linseed	S	SS	..	SS	S	..	NS	NS	NS
OILSEEDS	SS	SS	..	SS	SS	..	S	SS	..
Cotton	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sugarcane	SS	SS	..	SS	SS	..	NS	NS	NS
NON FOODGRAINS	SS	SS	..	SS	S	..	S	S	..
ALL CROPS	SS	S	..	SS	SS	..	S	NS	..

SS—Highly Significant      S—Significant      NS—Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6-59

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## ORISSA

Crop/Group of Crops	Agricultural Production			Area under Crops			Agricultural Productivity		
	Linear	Ex- ponen- tial	Second -Degree	Linear	Ex- ponen- tial	Second Degree	Linear	Ex- ponen- tial	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	SS	S	..	SS	SS	..	NS	NS	NS
CEREALS	SS	S	..	SS	NS	..	S	NS	..
PULSES	S	NS	..	NS	NS	SS	NS	NS	SS
FOODGRAINS	SS	S	..	S	NS	..	S	NS	..
OILSEEDS	S	S	..	NS	NS	SS	NS	NS	NS
Jute	S	S	..	S	S	..	NS	NS	NS
NON FOODGRAINS	SS	S	..	NS	NS	SS	SS	S	..
ALL CROPS	SS	S	..	SS	NS	..	S	NS	..

SS=Highly Significant

S=Significant

NS=Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6.60

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## KERALA

Crop/Group of Crops	Agricultural Production			Area under Crops			Agricultural Productivity		
	Linear	Ex- ponen- tial	Second Degree	Linear	Ex- ponen- tial	Second Degree	Linear	Ex- ponen- tial	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	SS	SS	—	SS	NS	—	SS	SS	—
CEREALS	SS	SS	—	SS	NS	—	SS	SS	—
FOODGRAINS	SS	SS	—	SS	NS	—	SS	SS	—
Coconut	SS	S	—	SS	SS	—	SS	NS	—
OILSEEDS	SS	NS	—	SS	SS	—	SS	NS	—
Tea	SS	SS	—	S	NS	—	SS	SS	—
Coffee	SS	SS	—	SS	SS	—	NS	NS	SS
Rubber	SS	SS	—	SS	SS	—	SS	SS	—
NON FOODGRAINS	SS	SS	—	SS	SS	—	NS	NS	NS
ALL CROPS	SS	SS	—	SS	SS	—	SS	S	..

SS=Highly Significant

S=Significant

NS=Not Significant.

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.



## APPENDIX 6.61

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## WEST BENGAL

Crop/Group of Crops	Agricultural Production			Area under crops			Agricultural Productivity		
	Linear	Ex-ponential	Second Degree	Linear	Ex-ponential	Second Degree	Linear	Ex-ponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice . .	NS	NS	NS	NS	NS	NS	NS	NS	NS
CEREALS . .	NS	NS	NS	NS	NS	NS	NS	NS	NS
PULSES . .	NS	NS	NS	NS	NS	NS	NS	NS	NS
FOODGRAINS . .	NS	NS	NS	NS	NS	S	NS	NS	NS
OILSEEDS . .	NS	NS	NS	S	S	—	S	S	—
Jute . .	SS	SS	—	SS	SS	—	NS	NS	S
Tea . .	NS	NS	NS	SS	S	—	NS	NS	S
Sugarcane . .	SS	SS	..	SS	SS	—	NS	NS	NS
Tobacco . .	NS	NS	NS	NS	NS	NS	NS	NS	S
Potatoes . .	SS	SS	—	SS	SS	—	NS	NS	NS
NON-FOODGRAINS . .	SS	SS	—	SS	SS	—	NS	NS	S
ALL CROPS . .	S	S	—	S	—	NS	S	NS	—

SS=Highly Significant

S=Significant

NS=Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6-62

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area Under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## UTTAR PRADESH

Crop/Group of Crops	Agricultural Production			Area under Crops			Agricultural Productivity		
	Linear	Ex-ponential	Second Degree	Linear	Ex-ponential	Second Degree	Linear	Ex-ponential	Second Degree
1	2	3	4	5	6	7	8	9	10
Rice	SS	SS	..	SS	SS	..	SS	S	..
Jowar	NS	NS	NS	S	NS	..	NS	NS	NS
Bajra	NS	NS	NS	SS	NS	..	NS	NS	NS
Maize	NS	NS	NS	SS	S	..	NS	NS	NS
Wheat	NS	NS	NS	S	NS	..	NS	NS	NS
Barley	S	S	..	SS	SS	..	NS	NS	NS
CEREALS	S	NS	..	S	NS	..	NS	NS	NS
Gram	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tur	NS	NS	NS	NS	NS	NS	NS	NS	NS
PULSES	NS	NS	NS	S	NS	..	NS	NS	NS
FOODGRAINS	NS	NS	NS	SS	NS	..	NS	NS	NS
Rapeseed & Mustard	S	SS	..	NS	NS	NS	SS	SS	..
OILSEEDS	SS	SS	..	SS	S	..	S	S	..
Jute	SS	SS	..	NS	S	..	SS	SS	..
Sugarcane	SS	SS	..	SS	SS	..	NS	NS	NS
Tobacco	S	S	..	S	S	..	NS	NS	NS
Potatoes	NS	NS	NS	SS	SS	..	NS	NS	NS
NON-FOODGRAINS	SS	SS	..	SS	SS	..	S	NS	..
ALL CROPS	SS	S	..	SS	S	..	NS	NS	NS

SS=Highly Significant

S=Significant

NS=Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit only in cases where Linear and Exponential trends were both not good fits.

## APPENDIX 6.63

*Significance of Linear, Exponential and Second Degree Trends for State Index Numbers of Area under Crops, Agricultural Production and Productivity for the Period 1952-53 to 1964-65*

## ASSAM

Crop/Group of Crops	Agricultural Production			Area under Crops			Agricultural Productivity			
	Linear	Ex-ponential	Second Degree	Linear	Ex-ponential	Second Degree	Linear	Ex-ponential	Second Degree	
	1	2	3	4	5	6	7	8	9	10
Rice	.	S	NS	..	SS	SS	..	NS	NS	NS
CEREALS	.	S	NS	..	SS	SS	..	NS	NS	NS
PULSES	.	NS	NS	NS	S	NS	..	NS	NS	NS
FOODGRAINS	.	S	NS	..	SS	SS	..	NS	NS	NS
Rapeseed and Mustard	.	NS	NS	NS	S	NS	..	NS	NS	NS
OILSEEDS	.	NS	NS	NS	SS	NS	..	NS	NS	NS
Jute	.	NS	NS	NS	S	NS	..	NS	NS	NS
Tea	.	SS	S	..	SS	NS	..	S	NS	..
Sugarcane	.	SS	S	..	SS	NS	..	S	NS	..
Tobacco	.	NS	NS	NS	SS	S	..	NS	NS	NS
Potatoes	.	NS	NS	NS	SS	SS	..	NS	NS	NS
NON-FOODGRAINS	.	SS	S	..	SS	S	..	NS	NS	NS
ALL CROPS	.	SS	S	..	SS	SS	..	NS	NS	NS

SS= Highly Significant

S= Significant

NS= Not Significant

NOTE.—Second degree curve was fitted and tested for goodness of fit in cases where Linear and Exponential trend were both not good fits.

## CORRIGENDA

Page No.	Crop/State	Col. No.	As printed	As desired
71	Tea	13	105·16	105·6
93	Rice	4	9·6	93·6
145	Sesamum	13	110·2	100·2
211	Pulses	2	(—) 1·12	(—) 1·21
215 App. 5·35	Orissa	2	8·40	3·40
216	Gujarat	8	(—) 1	..
222 Non foodgrains (Sugarcane)	Andhra Pradesh	5	2·25	2·26
252	Sugarcane	4	1·06	1·06
269	Pulses	7	S	SS

(G.R.A.)

DIRECTORATE OF ECONOMICS AND STATISTICS  
 MINISTRY OF FOOD, AGRICULTURE, COMMUNITY DEVELOPMENT AND  
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LIST OF PUBLICATIONS

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1. Estimates of Area and Production of Principal Crops in India 1959-60 and 1960-61 (Summary Tables) Vol. I .. .. .	4.50
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6. Indian Livestock Statistics, 1953-54 to 1955-56 .. .. .	5.00
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